

# **COMISIÓN DE REGULACIÓN DE ENERGÍA Y GAS - CREG**

**Reporte generado por: admin, 15 de marzo del 2,019**

## **DECLARACIÓN DE PARÁMETROS PARA EL CÁLCULO DE LA ENFICC**

Subasta: Subasta 2022 - 2023, Fecha Fin Subasta: 25-02-2019 10:00:00

AES CHIVOR & CIA SCA ESP

Formato 1. Plantas o Unidades Hidráulicas

| Nombre | Capacidad Efectiva Neta (MW) | Eficiencia (MW/m3/s) | IHF (%) |
|--------|------------------------------|----------------------|---------|
| CHIVOR | 1000                         | 6.8736               | 14.198  |

Formato 2. Topología Plantas Hidráulicas

| Nombre                   | Elemento Clase | Elemento Nombre            | Aportes Rio | Aportes Embalse | Aportes Planta | Aportes Otro                                         | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro             | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|--------------------------|----------------|----------------------------|-------------|-----------------|----------------|------------------------------------------------------|--------------|------------------|------------------|---------------------------|------------------|----------------------|---------------------|------------------|
| CADENA HIDRAULICA CHIVOR | AD             | RUCIO-NEGRO RUCIO (4)      | RUCIO       |                 |                |                                                      |              |                  |                  | AD NEGRO RUCIO-ESMER ALDA |                  |                      |                     | TIERRA           |
| CADENA HIDRAULICA CHIVOR | AD             | NEGRO - NEGRO RUCIO (1)    | NEGRO       |                 |                |                                                      |              |                  |                  | AD NEGRO RUCIO-ESMER ALDA |                  |                      |                     | TIERRA           |
| CADENA HIDRAULICA CHIVOR | AD             | NEGRO RUCIO-ESMER ALDA (2) |             |                 |                | AD RUCIO-NEGRO RUCIO (4); AD NEGRO - NEGRO RUCIO (1) |              | ESMER ALDA       |                  |                           |                  |                      |                     |                  |

| Nombre                   | Elemento Clase | Elemento Nombre       | Aportes Rio | Aportes Embalse | Aportes Planta | Aportes Otro                                   | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|--------------------------|----------------|-----------------------|-------------|-----------------|----------------|------------------------------------------------|--------------|------------------|------------------|---------------|------------------|----------------------|---------------------|------------------|
| CADENA HIDRAULICA CHIVOR | AD             | TUNJITA-ESMERALDA (3) | TUNJITA     |                 |                |                                                |              | ESMERALDA        |                  |               |                  |                      |                     | TIERRA           |
| CADENA HIDRAULICA CHIVOR | E              | ESMERALDA             | BATA        |                 |                | AD NEGRO RUCIO-ESMERALDA; AD TUNJITA-ESMERALDA |              |                  | CHIVOR           |               |                  |                      |                     | TIERRA           |
| CADENA HIDRAULICA CHIVOR | P              | CHIVOR                |             | ESMERALDA       |                |                                                | LENGUPA      |                  |                  |               |                  |                      |                     |                  |

### Formato 3. Plantas o Unidades Térmicas

Formato No Registrado

### Formato 4. Caudal Medio Mensual

| Nombre | Año  | Caudal Enero (m3/s) | Caudal Febrero (m3/s) | Caudal Marzo (m3/s) | Caudal Abril (m3/s) | Caudal Mayo(m3/s) | Caudal Junio (m3/s) | Caudal Julio (m3/s) | Caudal Agosto (m3/s) | Caudal Septiembre (m3/s) | Caudal Octubre (m3/s) | Caudal Noviembre (m3/s) | Caudal Diciembre (m3/s) |
|--------|------|---------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| BATA   | 1956 | 10                  | 8                     | 10                  | 23.6                | 39.81             | 124.29              | 92.25               | 136.91               | 81.56                    | 71.85                 | 38.35                   | 21.26                   |
| BATA   | 1957 | 10.01               | 7.24                  | 10.19               | 20.55               | 117.85            | 138.74              | 205.79              | 133.65               | 88.54                    | 79.75                 | 60.57                   | 25                      |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| BATA   | 1958 | 9.45                      | 6.04                        | 12.69                     | 28.39                     | 59.69                    | 95.5                      | 154.59                    | 126.26                     | 55.54                              | 31.73                       | 27.84                          | 11.44                          |
| BATA   | 1959 | 6.74                      | 5.31                        | 8.93                      | 19.37                     | 61.8                     | 116.6                     | 202.25                    | 279.99                     | 124.36                             | 103.94                      | 63.87                          | 23.3                           |
| BATA   | 1960 | 15.53                     | 16.62                       | 9.8                       | 23.31                     | 55.95                    | 92.57                     | 164.29                    | 204.75                     | 108.83                             | 51.3                        | 47.3                           | 46.66                          |
| BATA   | 1961 | 11.85                     | 7.89                        | 9.68                      | 30.97                     | 29.87                    | 100.93                    | 122.4                     | 124.63                     | 44.7                               | 57.4                        | 63.98                          | 17.71                          |
| BATA   | 1962 | 7.29                      | 5.51                        | 12.01                     | 10.56                     | 67.43                    | 133.85                    | 185.52                    | 116.18                     | 72.26                              | 54.44                       | 49.37                          | 22.02                          |
| BATA   | 1963 | 10.02                     | 11.29                       | 8.24                      | 40.95                     | 128.24                   | 126.8                     | 140.49                    | 170.01                     | 87.03                              | 34.38                       | 44.81                          | 18.7                           |
| BATA   | 1964 | 7.91                      | 5.97                        | 4.77                      | 18.11                     | 57.34                    | 112.45                    | 126.06                    | 81.14                      | 94.26                              | 50.85                       | 54.23                          | 22.48                          |
| BATA   | 1965 | 10.97                     | 7.48                        | 6.93                      | 36.29                     | 110.17                   | 119.33                    | 162.46                    | 140.09                     | 79.15                              | 71.22                       | 81.4                           | 31.89                          |
| BATA   | 1966 | 12.78                     | 6.13                        | 16.65                     | 20.27                     | 25.68                    | 52.76                     | 102.55                    | 83.73                      | 63.42                              | 36.26                       | 54.2                           | 45.96                          |
| BATA   | 1967 | 14.66                     | 8.25                        | 9.16                      | 38.93                     | 74.82                    | 165.01                    | 137.93                    | 212.73                     | 92.2                               | 47.13                       | 39.26                          | 24.28                          |
| BATA   | 1968 | 8.95                      | 8.3                         | 5.54                      | 51.94                     | 51.39                    | 104.05                    | 173.3                     | 129.99                     | 76.83                              | 58.84                       | 41.81                          | 12.69                          |
| BATA   | 1969 | 17.31                     | 10.87                       | 7.86                      | 37.01                     | 71.64                    | 90.38                     | 144.32                    | 105.85                     | 45.5                               | 85.99                       | 43                             | 20.26                          |
| BATA   | 1970 | 22.03                     | 14.47                       | 10.73                     | 36.08                     | 59.62                    | 103.66                    | 143.81                    | 133.51                     | 75.09                              | 79.99                       | 44.3                           | 24.65                          |
| BATA   | 1971 | 17.83                     | 11.45                       | 23.06                     | 37.51                     | 117.86                   | 111.57                    | 182                       | 111.38                     | 94.42                              | 52.48                       | 39.74                          | 26.08                          |
| BATA   | 1972 | 35.15                     | 16.63                       | 16.53                     | 71.33                     | 123.35                   | 135.06                    | 154.49                    | 97.81                      | 99.48                              | 43.58                       | 34.64                          | 13.27                          |
| BATA   | 1973 | 7.35                      | 5.81                        | 6.35                      | 13.42                     | 66.51                    | 76.39                     | 107.59                    | 106.55                     | 136.94                             | 73.86                       | 79.91                          | 31.98                          |
| BATA   | 1974 | 10.93                     | 11.57                       | 13.63                     | 36.31                     | 55.42                    | 67.29                     | 127.65                    | 118.07                     | 60.46                              | 52.23                       | 51.03                          | 16.41                          |
| BATA   | 1975 | 7.26                      | 6.31                        | 10.52                     | 16.16                     | 38.56                    | 109.24                    | 78.42                     | 113.65                     | 61.63                              | 59.27                       | 57.09                          | 47.43                          |
| BATA   | 1976 | 15.62                     | 9.61                        | 23.8                      | 53.31                     | 114.84                   | 178.78                    | 187.15                    | 118.98                     | 76.25                              | 67.98                       | 67.58                          | 31.41                          |
| BATA   | 1977 | 9.76                      | 8.39                        | 7.84                      | 24.42                     | 50.82                    | 96.42                     | 113.76                    | 93.97                      | 107.32                             | 62.56                       | 65.37                          | 15.27                          |
| BATA   | 1978 | 7.3                       | 7.39                        | 9.14                      | 54.27                     | 63.41                    | 121.83                    | 102.9                     | 124.58                     | 83.41                              | 69.59                       | 31.78                          | 20.04                          |
| BATA   | 1979 | 7.07                      | 5.68                        | 7.56                      | 42.86                     | 57.84                    | 140.3                     | 126.42                    | 107.52                     | 53.99                              | 83.33                       | 95.48                          | 59.49                          |
| BATA   | 1980 | 18.93                     | 9.46                        | 9.96                      | 33.4                      | 57.62                    | 161.91                    | 131.38                    | 85.69                      | 87.89                              | 87.91                       | 39.97                          | 13.44                          |
| BATA   | 1981 | 10.09                     | 12.58                       | 14.74                     | 44.68                     | 113.59                   | 121.92                    | 109.46                    | 83.16                      | 69.65                              | 73.38                       | 52.91                          | 26.35                          |
| BATA   | 1982 | 14.56                     | 11.5                        | 17.73                     | 65.73                     | 77.87                    | 91.5                      | 137.09                    | 123.51                     | 86.25                              | 65.41                       | 35.61                          | 18.69                          |
| BATA   | 1983 | 14.09                     | 15.13                       | 23.9                      | 62.52                     | 64.7                     | 70.99                     | 97.01                     | 126.38                     | 56.98                              | 53.83                       | 25.2                           | 18.58                          |
| BATA   | 1984 | 7.7                       | 11.04                       | 7.42                      | 11.11                     | 34.89                    | 102.76                    | 98.4                      | 114.2                      | 83.39                              | 36.17                       | 41.11                          | 16.07                          |
| BATA   | 1985 | 8.45                      | 4.99                        | 6.56                      | 23.06                     | 52.12                    | 146.36                    | 102.01                    | 95.55                      | 79.33                              | 55.45                       | 53.37                          | 42.99                          |
| BATA   | 1986 | 10.31                     | 14.89                       | 27.01                     | 38.71                     | 63.42                    | 188.36                    | 201.04                    | 124.37                     | 64.5                               | 111.69                      | 60.51                          | 28.61                          |
| BATA   | 1987 | 11.39                     | 13.2                        | 12.88                     | 25.21                     | 70.39                    | 101.23                    | 147.91                    | 133.24                     | 64.13                              | 75.74                       | 43.83                          | 27.07                          |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| BATA   | 1988 | 8.17                      | 6.88                        | 4.57                      | 18.27                     | 32.04                    | 86.95                     | 142.12                    | 59.08                      | 51.4                               | 68.56                       | 90.95                          | 41.28                          |
| BATA   | 1989 | 14.44                     | 12.17                       | 35.88                     | 25.87                     | 91.82                    | 100.18                    | 144.45                    | 67.23                      | 46.67                              | 48.95                       | 44.56                          | 23.1                           |
| BATA   | 1990 | 9.75                      | 12.02                       | 19.87                     | 30.14                     | 117.17                   | 113.16                    | 130.97                    | 104.74                     | 45.59                              | 41.26                       | 41.25                          | 32.7                           |
| BATA   | 1991 | 9.09                      | 6.9                         | 19.15                     | 26.52                     | 45.82                    | 69.15                     | 191.11                    | 165.69                     | 93.65                              | 48.61                       | 54.15                          | 16.3                           |
| BATA   | 1992 | 8.79                      | 6.73                        | 5.98                      | 15.78                     | 30.21                    | 62.84                     | 152.68                    | 147.07                     | 56.35                              | 32.25                       | 37.64                          | 22.05                          |
| BATA   | 1993 | 9.87                      | 8.95                        | 14.81                     | 36.59                     | 73.42                    | 128.49                    | 129.93                    | 100.86                     | 65.2                               | 44.82                       | 53.09                          | 33.18                          |
| BATA   | 1994 | 11.67                     | 8.69                        | 18.09                     | 30.14                     | 95.99                    | 102.75                    | 185.16                    | 146.68                     | 85.27                              | 93.39                       | 55.22                          | 27.5                           |
| BATA   | 1995 | 11.82                     | 7.91                        | 12.26                     | 43.27                     | 54.15                    | 103.31                    | 89.93                     | 59.6                       | 40.44                              | 45.54                       | 36.82                          | 21.01                          |
| BATA   | 1996 | 10.24                     | 17.03                       | 25.68                     | 22.76                     | 73.3                     | 115.07                    | 158.66                    | 89.48                      | 56.28                              | 72.3                        | 31.99                          | 42.38                          |
| BATA   | 1997 | 20.43                     | 15.21                       | 10.95                     | 19.26                     | 56.55                    | 49.44                     | 241.73                    | 141.31                     | 42.52                              | 29.83                       | 26.12                          | 9.41                           |
| BATA   | 1998 | 7.12                      | 7.1                         | 8.06                      | 30.07                     | 100.76                   | 169.91                    | 192.84                    | 95.24                      | 44.11                              | 35.14                       | 44.34                          | 26.44                          |
| BATA   | 1999 | 14.4                      | 19.53                       | 18.27                     | 66.83                     | 56.02                    | 87.5                      | 84.37                     | 73.93                      | 86.38                              | 85.88                       | 43.4                           | 21.83                          |
| BATA   | 2000 | 10.52                     | 13.57                       | 16.53                     | 18.91                     | 62.74                    | 80.08                     | 109.42                    | 132.2                      | 94.57                              | 61.44                       | 60.52                          | 26.35                          |
| BATA   | 2001 | 12.06                     | 7.35                        | 8.86                      | 11.33                     | 41.02                    | 90.26                     | 83.27                     | 148.79                     | 107.23                             | 47.67                       | 51.83                          | 36.83                          |
| BATA   | 2002 | 10.56                     | 8.08                        | 15.29                     | 38.25                     | 84.48                    | 166.27                    | 133.62                    | 173.38                     | 71.85                              | 34.3                        | 32.73                          | 12.18                          |
| BATA   | 2003 | 9.65                      | 8.5                         | 14.16                     | 41.3                      | 90.13                    | 73.36                     | 156.56                    | 109.8                      | 75.5                               | 83.39                       | 70.91                          | 42.67                          |
| BATA   | 2004 | 13.29                     | 9.81                        | 11.41                     | 35.7                      | 142.51                   | 206.98                    | 127.87                    | 163.1                      | 70.89                              | 64.52                       | 48.47                          | 20.57                          |
| BATA   | 2005 | 13.17                     | 14.76                       | 11.02                     | 34.71                     | 94.03                    | 83.35                     | 85.73                     | 130.26                     | 119.47                             | 73.92                       | 81.95                          | 22.9                           |
| BATA   | 2006 | 14.9                      | 9.87                        | 27.18                     | 77.08                     | 87.41                    | 173.51                    | 196.09                    | 103.7                      | 50.13                              | 88.99                       | 74.67                          | 28.44                          |
| BATA   | 2007 | 10.6                      | 7.53                        | 10.3                      | 38.02                     | 61.37                    | 147.55                    | 79.12                     | 100.32                     | 68.42                              | 60.23                       | 45.76                          | 19.1                           |
| BATA   | 2008 | 12.5                      | 8.79                        | 9.16                      | 13.35                     | 45.25                    | 123.39                    | 155.7                     | 91.59                      | 69.03                              | 47.11                       | 90.63                          | 34.37                          |
| BATA   | 2009 | 14.21                     | 12.21                       | 13.26                     | 28.06                     | 34.15                    | 67.29                     | 93.7                      | 105.45                     | 54.77                              | 43.49                       | 27.71                          | 10.25                          |
| BATA   | 2010 | 8.3                       | 5.12                        | 10.96                     | 37.18                     | 71.36                    | 80.35                     | 125.32                    | 72.68                      | 36.81                              | 38.67                       | 59.79                          | 41.33                          |
| BATA   | 2011 | 13.19                     | 12.29                       | 33.52                     | 108.87                    | 157.04                   | 134.54                    | 99.75                     | 98.28                      | 88.27                              | 78.77                       | 106.75                         | 71.38                          |
| BATA   | 2012 | 18.58                     | 18.16                       | 32.71                     | 116.99                    | 85.03                    | 107.55                    | 174.71                    | 151.48                     | 67.28                              | 48.23                       | 27.85                          | 14.19                          |
| BATA   | 2013 | 9.58                      | 10.38                       | 16.2                      | 24.14                     | 72.73                    | 61.81                     | 92.15                     | 98.86                      | 53.48                              | 46.8                        | 60.38                          | 27.96                          |
| BATA   | 2014 | 12.76                     | 9.94                        | 15.83                     | 28.91                     | 36.71                    | 108.88                    | 153.86                    | 120.17                     | 77.88                              | 53.68                       | 34.26                          | 26.12                          |
| BATA   | 2015 | 9.96                      | 11.53                       | 10.11                     | 34.14                     | 38.83                    | 185.89                    | 123.89                    | 122.35                     | 51.5                               | 22.65                       | 32.21                          | 26.37                          |
| BATA   | 2016 | 5.94                      | 2.85                        | 3.51                      | 34.99                     | 70.46                    | 95.51                     | 154.34                    | 78.97                      | 88.32                              | 39.2                        | 50.53                          | 21.3                           |
| BATA   | 2017 | 17.09                     | 11.35                       | 27.64                     | 25.53                     | 61.6                     | 90.61                     | 120.25                    | 67.04                      | 41.96                              | 35.75                       | 29.52                          | 12.65                          |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| TUNJIT<br>A   | 1977       |                                    |                                      |                                    |                                    |                                   |                                    | 18.89                              | 19.31                               | 20.06                                        | 11.99                                | 10.1                                    | 1.33                                    |
| TUNJIT<br>A   | 1978       | 0.75                               | 0.73                                 | 3.19                               | 18.33                              | 18.82                             | 21.66                              | 14.27                              | 31.59                               | 14.59                                        | 13.45                                | 7.93                                    | 3.44                                    |
| TUNJIT<br>A   | 1979       | 0.94                               | 0.52                                 | 0.88                               | 8.66                               | 12.71                             | 50.18                              | 28.03                              | 19.65                               | 9.3                                          | 17.21                                | 14.31                                   | 8.86                                    |
| TUNJIT<br>A   | 1980       | 1.71                               | 0.88                                 | 2.01                               | 9.28                               | 17.22                             | 29.37                              | 29.21                              | 24.32                               | 14.5                                         | 10.78                                | 4.69                                    | 2.06                                    |
| TUNJIT<br>A   | 1981       | 1.17                               | 2.44                                 | 3                                  | 10.98                              | 12.92                             | 18.22                              | 22.76                              | 12.43                               | 12.66                                        | 12.17                                | 8.2                                     | 3.37                                    |
| TUNJIT<br>A   | 1982       | 2.71                               | 2.09                                 | 3.88                               | 14.39                              | 18.19                             | 20.9                               | 18.98                              | 24.28                               | 12.62                                        | 12.55                                | 5.49                                    | 2.5                                     |
| TUNJIT<br>A   | 1983       | 1.72                               | 3.85                                 | 7.21                               | 20.88                              | 12.34                             | 10.72                              | 21.67                              | 31.85                               | 12.31                                        | 11.01                                | 8.66                                    | 5.5                                     |
| TUNJIT<br>A   | 1984       | 1.4                                | 7.13                                 | 1.16                               | 2.08                               | 6.86                              | 15.92                              | 27.39                              | 25.56                               | 10.64                                        | 5.87                                 | 8.67                                    | 2.39                                    |
| TUNJIT<br>A   | 1985       | 0.83                               | 0.51                                 | 0.94                               | 5.14                               | 13.1                              | 31.1                               | 19.8                               | 20.6                                | 15.5                                         | 10.7                                 | 11.4                                    | 4.8                                     |
| TUNJIT<br>A   | 1986       | 1                                  | 3.9                                  | 5.5                                | 10.1                               | 13.5                              | 35.08                              | 29.76                              | 15.08                               | 10.8                                         | 15.6                                 | 6.94                                    | 4.85                                    |
| TUNJIT<br>A   | 1987       | 0.99                               | 2.06                                 | 5.24                               | 10.2                               | 21.16                             | 19.19                              | 21.28                              | 33.13                               | 12.46                                        | 9.98                                 | 5.26                                    | 4.34                                    |
| TUNJIT<br>A   | 1988       | 3.57                               | 3.53                                 | 2.95                               | 6.11                               | 10.46                             | 21.62                              | 27.6                               | 15.63                               | 12.58                                        | 13.1                                 | 13.48                                   | 6.69                                    |
| TUNJIT<br>A   | 1989       | 2.54                               | 1.74                                 | 5.7                                | 4.68                               | 17.46                             | 15.48                              | 19.3                               | 12.87                               | 11.34                                        | 17.23                                | 17.81                                   | 5.56                                    |
| TUNJIT<br>A   | 1990       | 2.53                               | 3.39                                 | 5.78                               | 9.18                               | 24.62                             | 19.24                              | 23.02                              | 23.41                               | 14.95                                        | 18.88                                | 16.17                                   | 10.47                                   |
| TUNJIT<br>A   | 1991       | 2.13                               | 1.72                                 | 3.37                               | 10.18                              | 13.95                             | 15.66                              | 31.16                              | 22.86                               | 17.7                                         | 11.24                                | 10.47                                   | 2.37                                    |
| TUNJIT<br>A   | 1992       | 2.35                               | 2.66                                 | 2.35                               | 6.02                               | 10.4                              | 18.14                              | 39.91                              | 23.94                               | 12.2                                         | 10.37                                | 11.54                                   | 7.07                                    |
| TUNJIT<br>A   | 1993       | 5.38                               | 4.82                                 | 7.13                               | 11.93                              | 19.92                             | 28.03                              | 26.12                              | 20.56                               | 18.68                                        | 10.29                                | 12.15                                   | 5.81                                    |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| TUNJIT<br>A   | 1994       | 3.58                               | 3.49                                 | 7.23                               | 10.18                              | 22.66                             | 18.88                              | 27.64                              | 30.19                               | 29.14                                        | 13.62                                | 13.45                                   | 7.55                                    |
| TUNJIT<br>A   | 1995       | 2.88                               | 2.08                                 | 4.67                               | 17.18                              | 13.52                             | 22.61                              | 19.61                              | 15.53                               | 9.79                                         | 10.17                                | 7.7                                     | 6.5                                     |
| TUNJIT<br>A   | 1996       | 0.87                               | 4.43                                 | 7.25                               | 5.28                               | 26.98                             | 23.72                              | 23.9                               | 16.9                                | 26.27                                        | 13.15                                | 6.04                                    | 5.94                                    |
| TUNJIT<br>A   | 1997       | 2.25                               | 2.91                                 | 1.93                               | 7.66                               | 31.44                             | 11.31                              | 27.85                              | 15.73                               | 7.07                                         | 5.03                                 | 15.1                                    | 1.54                                    |
| TUNJIT<br>A   | 1998       | 0.75                               | 0.98                                 | 3.37                               | 19.7                               | 22.02                             | 30.88                              | 22.88                              | 13.4                                | 9.06                                         | 10.57                                | 6.52                                    | 4.72                                    |
| TUNJIT<br>A   | 1999       | 1.96                               | 4                                    | 4.06                               | 12.07                              | 10.05                             | 13.91                              | 15.76                              | 12.5                                | 11.59                                        | 11.22                                | 9.83                                    | 3.86                                    |
| TUNJIT<br>A   | 2000       | 0.87                               | 1.99                                 | 1.98                               | 3.32                               | 15.35                             | 17.03                              | 31.53                              | 20.46                               | 14.37                                        | 12.14                                | 8.67                                    | 2.77                                    |
| TUNJIT<br>A   | 2001       | 1.18                               | 0.56                                 | 1.13                               | 3.49                               | 12.78                             | 24.53                              | 17.56                              | 25.65                               | 13.26                                        | 9.64                                 | 10.46                                   | 8.27                                    |
| TUNJIT<br>A   | 2002       | 1.5                                | 1.23                                 | 2.09                               | 7                                  | 14.49                             | 27.01                              | 16.15                              | 19.02                               | 10.5                                         | 7.8                                  | 5.3                                     | 1.78                                    |
| TUNJIT<br>A   | 2003       | 0.26                               | 0.06                                 | 2.12                               | 7.11                               | 14.45                             | 16.76                              | 26.83                              | 23.22                               | 14.03                                        | 14.43                                | 11.39                                   | 5.83                                    |
| TUNJIT<br>A   | 2004       | 1.6                                | 1.51                                 | 2.28                               | 6.67                               | 22.3                              | 40.97                              | 17.49                              | 23.13                               | 10.82                                        | 9.17                                 | 8.41                                    | 3.22                                    |
| TUNJIT<br>A   | 2005       | 1.97                               | 2.26                                 | 1.05                               | 6.74                               | 17.34                             | 20.16                              | 21.32                              | 21.55                               | 20.27                                        | 14.67                                | 17.92                                   | 3.99                                    |
| TUNJIT<br>A   | 2006       | 3.07                               | 2.06                                 | 9.68                               | 13.44                              | 20.14                             | 31.43                              | 23.93                              | 15.7                                | 8.86                                         | 15.17                                | 10.53                                   | 3.71                                    |
| TUNJIT<br>A   | 2007       | 1.79                               | 1.01                                 | 2.94                               | 9.08                               | 17.56                             | 20.74                              | 15.38                              | 23.22                               | 16.61                                        | 14.91                                | 13.27                                   | 4.16                                    |
| TUNJIT<br>A   | 2008       | 1.93                               | 1.67                                 | 1.83                               | 3.55                               | 13.38                             | 23.29                              | 23.94                              | 12.28                               | 10.58                                        | 7.79                                 | 13.85                                   | 2.65                                    |
| TUNJIT<br>A   | 2009       | 1.48                               | 1.91                                 | 3.57                               | 6.54                               | 7.2                               | 13.17                              | 12.8                               | 17.98                               | 9.69                                         | 8.99                                 | 5.78                                    | 1.31                                    |
| TUNJIT<br>A   | 2010       | 0.77                               | 0.91                                 | 2.5                                | 9.44                               | 14.44                             | 14.41                              | 20.73                              | 12.23                               | 4.96                                         | 7.05                                 | 11.63                                   | 7.11                                    |

| Nombre      | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|-------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| TUNJIT<br>A | 2011 | 1.61                      | 2.46                        | 8.09                      | 15.67                     | 21.5                     | 22.88                     | 14.21                     | 14.08                      | 16.19                              | 15.1                        | 17.31                          | 8.64                           |
| TUNJIT<br>A | 2012 | 1.96                      | 2.28                        | 6.55                      | 14.87                     | 18.15                    | 20.16                     | 28.2                      | 26.34                      | 13.51                              | 10.66                       | 3.09                           | 1.16                           |
| TUNJIT<br>A | 2013 | 0.68                      | 1.6                         | 3.09                      | 8.34                      | 16.91                    | 18.28                     | 18.23                     | 23.51                      | 15.72                              | 11.55                       | 11.88                          | 4.08                           |
| TUNJIT<br>A | 2014 | 0.92                      | 0.71                        | 3.55                      | 5.7                       | 7.29                     | 16.98                     | 17.64                     | 21.93                      | 10.05                              | 10.64                       | 6.23                           | 2.6                            |
| TUNJIT<br>A | 2015 | 0.89                      | 1.34                        | 1.96                      | 8.37                      | 8.01                     | 31.28                     | 28.14                     | 24.77                      | 9.64                               | 4.95                        | 7.12                           | 3.51                           |
| TUNJIT<br>A | 2016 | 0.61                      | 0.91                        | 1.82                      | 18.18                     | 26.93                    | 31.14                     | 33.12                     | 28.3                       | 28.85                              | 14.78                       | 16.34                          | 5.1                            |
| TUNJIT<br>A | 2017 | 2.56                      | 1.43                        | 6.77                      | 7.08                      | 22.54                    | 35.71                     | 34.27                     | 21.77                      | 13.36                              | 10.2                        | 11.45                          | 2.83                           |
| NEGRO       | 1963 | 0.61                      | 1.02                        | 0.71                      | 5.3                       | 8.47                     | 9.69                      | 9.08                      | 10                         | 6.63                               | 3.26                        | 3.47                           | 2.04                           |
| NEGRO       | 1964 | 1.02                      | 1.02                        | 1.12                      | 4.59                      | 9.28                     | 8.98                      | 9.79                      | 11.83                      | 10.71                              | 2.65                        | 2.86                           | 2.75                           |
| NEGRO       | 1965 | 2.86                      | 2.35                        | 0.82                      | 2.75                      | 11.32                    | 8.67                      | 15.91                     | 11.83                      | 5.3                                | 3.26                        | 5.71                           | 1.84                           |
| NEGRO       | 1966 | 1.22                      | 0.92                        | 1.02                      | 2.86                      | 2.35                     | 2.35                      | 5.51                      | 6.02                       | 5.51                               | 3.37                        | 2.75                           | 2.86                           |
| NEGRO       | 1967 | 2.65                      | 1.43                        | 1.73                      | 5.1                       | 6.63                     | 12.75                     | 15.71                     | 16.42                      | 8.67                               | 3.57                        | 2.86                           | 2.75                           |
| NEGRO       | 1968 | 2.14                      | 0.82                        | 1.22                      | 9.38                      | 7.45                     | 12.24                     | 20.91                     | 10.71                      | 6.83                               | 5.81                        | 4.08                           | 1.33                           |
| NEGRO       | 1969 | 1.12                      | 1.22                        | 1.02                      | 4.08                      | 8.36                     | 9.08                      | 12.55                     | 10.1                       | 5.92                               | 5.41                        | 4.59                           | 3.16                           |
| NEGRO       | 1970 | 1.73                      | 1.84                        | 2.55                      | 6.32                      | 5.61                     | 12.34                     | 11.12                     | 8.06                       | 5.51                               | 7.85                        | 2.86                           | 2.14                           |
| NEGRO       | 1971 | 1.43                      | 1.53                        | 2.65                      | 4.28                      | 6.94                     | 10.61                     | 13.36                     | 9.18                       | 6.83                               | 3.86                        | 3.76                           | 1.78                           |
| NEGRO       | 1972 | 2.96                      | 1.73                        | 2.35                      | 4.69                      | 10.61                    | 10.91                     | 12.95                     | 7.85                       | 6.32                               | 2.86                        | 2.45                           | 1.22                           |
| NEGRO       | 1973 | 0.71                      | 0.61                        | 2.55                      | 1.84                      | 5.92                     | 8.26                      | 8.67                      | 7.75                       | 6.12                               | 4.28                        | 3.67                           | 1.63                           |
| NEGRO       | 1974 | 1.02                      | 1.12                        | 1.63                      | 4.49                      | 6.32                     | 6.53                      | 10.3                      | 9.28                       | 4.18                               | 3.47                        | 2.04                           | 0.92                           |
| NEGRO       | 1975 | 0.82                      | 0.61                        | 1.94                      | 2.75                      | 4.9                      | 15.91                     | 7.75                      | 8.16                       | 3.88                               | 3.61                        | 2.95                           | 1.81                           |
| NEGRO       | 1976 | 0.92                      | 0.82                        | 2.14                      | 4.28                      | 11.42                    | 15.5                      | 16.22                     | 7.04                       | 5                                  | 2.56                        | 2.27                           | 1.42                           |
| NEGRO       | 1977 | 0.51                      | 0.71                        | 1.02                      | 1.94                      | 3.98                     | 9.38                      | 13.26                     | 5.3                        | 6.76                               | 3.84                        | 2.46                           | 1.04                           |
| NEGRO       | 1978 | 0.51                      | 0.51                        | 0.71                      | 3.47                      | 7.34                     | 10.4                      | 7.24                      | 8.06                       | 4.94                               | 4.35                        | 1.15                           | 1.25                           |
| NEGRO       | 1979 | 0.41                      | 0.31                        | 0.41                      | 3.26                      | 3.98                     | 6.53                      | 7.65                      | 8.06                       | 2.63                               | 3.78                        | 4.82                           | 3.53                           |
| NEGRO       | 1980 | 1.22                      | 0.41                        | 1.33                      | 2.04                      | 1.53                     | 6.53                      | 8.26                      | 5.1                        | 7.24                               | 7.14                        | 4.49                           | 1.33                           |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| NEGRO  | 1981 | 0.61                      | 1.12                        | 1.63                      | 4.08                      | 5.92                     | 8.47                      | 7.96                      | 8.36                       | 5.81                               | 5.81                        | 3.77                           | 2.35                           |
| NEGRO  | 1982 | 1.33                      | 1.22                        | 1.94                      | 1.84                      | 5.41                     | 7.14                      | 16.63                     | 6.99                       | 6.82                               | 4.24                        | 3.44                           | 2.2                            |
| NEGRO  | 1983 | 1.22                      | 2.75                        | 3.67                      | 6.02                      | 5                        | 7.24                      | 10.81                     | 10.2                       | 6.73                               | 6.83                        | 3.04                           | 2.8                            |
| NEGRO  | 1984 | 0.81                      | 2.15                        | 1.2                       | 1.8                       | 4.85                     | 15.02                     | 9.72                      | 8.29                       | 4.8                                | 1.75                        | 3.34                           | 0.84                           |
| NEGRO  | 1985 | 0.59                      | 0.5                         | 0.53                      | 1.52                      | 7.76                     | 10.38                     | 7.46                      | 5.6                        | 5.91                               | 3.11                        | 1.89                           | 0.67                           |
| NEGRO  | 1986 | 0.39                      | 0.72                        | 1.5                       | 2.51                      | 6.01                     | 15.52                     | 14.27                     | 7.02                       | 3.17                               | 3.37                        | 1.95                           | 1.38                           |
| NEGRO  | 1987 | 1.19                      | 3.69                        | 2.52                      | 4.61                      | 6.58                     | 8.47                      | 11.9                      | 7.41                       | 4.55                               | 3.67                        | 2.06                           | 1.64                           |
| NEGRO  | 1988 | 0.97                      | 0.99                        | 0.76                      | 4.73                      | 5.13                     | 5.77                      | 11.06                     | 3.86                       | 3.29                               | 2.7                         | 2.98                           | 1.51                           |
| NEGRO  | 1989 | 1.68                      | 1.49                        | 3.29                      | 4.03                      | 9.86                     | 10.92                     | 12.42                     | 5.36                       | 4.03                               | 4.3                         | 3.62                           | 1.83                           |
| NEGRO  | 1990 | 1.17                      | 1.14                        | 3.17                      | 3.66                      | 9.84                     | 11.94                     | 10.94                     | 5.85                       | 2.91                               | 2.02                        | 2.38                           | 1.94                           |
| NEGRO  | 1991 | 0.93                      | 1                           | 1.41                      | 2.36                      | 5.18                     | 8.89                      | 16.34                     | 13.27                      | 9.54                               | 4.67                        | 3.04                           | 1.57                           |
| NEGRO  | 1992 | 1.23                      | 0.68                        | 0.57                      | 3.52                      | 4.55                     | 10.24                     | 13.23                     | 9.4                        | 5.48                               | 3.28                        | 2.68                           | 1.51                           |
| NEGRO  | 1993 | 1.3                       | 0.63                        | 3.25                      | 4.47                      | 6.42                     | 10.94                     | 14.86                     | 8.27                       | 5.7                                | 4                           | 3.74                           | 2.92                           |
| NEGRO  | 1994 | 1.4                       | 1.12                        | 2.61                      | 5.9                       | 11.44                    | 12.87                     | 16.72                     | 16.17                      | 6.95                               | 4.27                        | 3.88                           | 1.78                           |
| NEGRO  | 1995 | 2.63                      | 2.28                        | 2.45                      | 4.06                      | 5.18                     | 7.84                      | 5.62                      | 3.77                       | 3.46                               | 3.23                        | 1.86                           | 1.07                           |
| NEGRO  | 1996 | 0.68                      | 2.48                        | 2.17                      | 3.81                      | 8.55                     | 9.72                      | 10.46                     | 5.69                       | 4.84                               | 4.78                        | 2.79                           | 3.19                           |
| NEGRO  | 1997 | 1.21                      | 2.17                        | 1.51                      | 5.44                      | 10.39                    | 7.85                      | 20.51                     | 16.2                       | 6.67                               | 5.48                        | 4.63                           | 2.89                           |
| NEGRO  | 1998 | 2.48                      | 1.96                        | 1.31                      | 3.21                      | 7.76                     | 10.39                     | 11.31                     | 4.43                       | 2.29                               | 2.9                         | 2.51                           | 1.95                           |
| NEGRO  | 1999 | 1.53                      | 2.27                        | 1.66                      | 8.13                      | 6.65                     | 7.7                       | 6.2                       | 5.49                       | 4.09                               | 6.67                        | 3.1                            | 1.29                           |
| NEGRO  | 2000 | 0.94                      | 1.26                        | 1.1                       | 2.21                      | 8.35                     | 7.64                      | 7.65                      | 7.52                       | 4.11                               | 3.94                        | 4.12                           | 2.37                           |
| NEGRO  | 2001 | 1.58                      | 0.91                        | 1                         | 3.19                      | 6.66                     | 9.75                      | 7.61                      | 9.52                       | 6.62                               | 2.86                        | 3                              | 2.59                           |
| NEGRO  | 2002 | 0.86                      | 0.72                        | 2.01                      | 5.21                      | 8.88                     | 10.72                     | 12.35                     | 10.39                      | 4.48                               | 1.55                        | 2.55                           | 1.01                           |
| NEGRO  | 2003 | 0.97                      | 0.8                         | 1.64                      | 4.5                       | 8.56                     | 6.58                      | 9.3                       | 9.6                        | 5.93                               | 4.14                        | 2.78                           | 2.25                           |
| NEGRO  | 2004 | 0.88                      | 0.78                        | 3.31                      | 5.93                      | 12.83                    | 17.23                     | 10.14                     | 11.2                       | 3.3                                | 2.88                        | 1.99                           | 1.26                           |
| NEGRO  | 2005 | 1.46                      | 2.99                        | 1.76                      | 5.93                      | 9.28                     | 7.9                       | 8.34                      | 9.28                       | 9.03                               | 4.02                        | 5.08                           | 2.1                            |
| NEGRO  | 2006 | 1.12                      | 0.78                        | 5.01                      | 8.23                      | 7.32                     | 12.36                     | 12.9                      | 9.08                       | 3.8                                | 4.66                        | 3.78                           | 2.67                           |
| NEGRO  | 2007 | 1.23                      | 0.87                        | 2.55                      | 4.9                       | 7.84                     | 11.57                     | 5.59                      | 6.23                       | 5.79                               | 4.03                        | 4.58                           | 1.58                           |
| NEGRO  | 2008 | 1.18                      | 1.03                        | 0.94                      | 1.5                       | 4.75                     | 12.84                     | 13.82                     | 7.52                       | 6.39                               | 4.27                        | 6.59                           | 2.18                           |
| NEGRO  | 2009 | 1.18                      | 1.12                        | 1.76                      | 2.83                      | 2.49                     | 7.2                       | 7.11                      | 10                         | 4.62                               | 3.17                        | 2.28                           | 0.74                           |
| NEGRO  | 2010 | 0.87                      | 0.43                        | 1.42                      | 3.88                      | 6.92                     | 6.05                      | 7.95                      | 4.47                       | 3.33                               | 2.44                        | 3.51                           | 2.59                           |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| NEGRO  | 2011 | 1.47                      | 1.23                        | 4.02                      | 5.23                      | 6                        | 9.03                      | 5.74                      | 7.09                       | 6.41                               | 4.71                        | 3.92                           | 2.39                           |
| NEGRO  | 2012 | 1.22                      | 1.76                        | 3.55                      | 6.03                      | 9.6                      | 10.76                     | 16.8                      | 11.59                      | 3.77                               | 3.09                        | 1.62                           | 1.31                           |
| NEGRO  | 2013 | 0.7                       | 1.84                        | 3.04                      | 5.02                      | 7.33                     | 6.84                      | 11.97                     | 11.51                      | 7.6                                | 5.07                        | 4.95                           | 3.1                            |
| NEGRO  | 2014 | 0.7                       | 0.62                        | 1.33                      | 3.32                      | 3.72                     | 12.62                     | 16.62                     | 10.33                      | 6.1                                | 4.06                        | 2.04                           | 2.8                            |
| NEGRO  | 2015 | 2                         | 1.8                         | 1.86                      | 4.6                       | 6.25                     | 22.66                     | 18.13                     | 14.11                      | 6.15                               | 3.3                         | 3.26                           | 3.09                           |
| NEGRO  | 2016 | 1.17                      | 1.31                        | 1.67                      | 8.11                      | 9.01                     | 10.93                     | 16.41                     | 8.6                        | 8.9                                | 4.46                        | 4.62                           | 2.57                           |
| NEGRO  | 2017 | 2.15                      | 1.72                        | 3.04                      | 2.84                      | 6.72                     | 9.09                      | 18.15                     | 6.09                       | 6.75                               | 4.46                        | 2.78                           | 1.57                           |
| RUCIO  | 1963 | 0.31                      | 0.52                        | 0.37                      | 2.71                      | 4.33                     | 4.96                      | 4.64                      | 5.11                       | 3.39                               | 1.67                        | 1.77                           | 1.04                           |
| RUCIO  | 1964 | 0.52                      | 0.52                        | 0.57                      | 2.35                      | 4.75                     | 4.59                      | 5.01                      | 6.05                       | 5.48                               | 1.36                        | 1.46                           | 1.41                           |
| RUCIO  | 1965 | 1.46                      | 1.2                         | 0.42                      | 1.41                      | 5.79                     | 4.44                      | 8.14                      | 6.05                       | 2.71                               | 1.67                        | 2.92                           | 0.94                           |
| RUCIO  | 1966 | 0.63                      | 0.47                        | 0.52                      | 1.46                      | 1.2                      | 1.2                       | 2.82                      | 3.08                       | 2.82                               | 1.72                        | 1.41                           | 1.46                           |
| RUCIO  | 1967 | 1.36                      | 0.73                        | 0.89                      | 2.61                      | 3.39                     | 6.52                      | 8.04                      | 8.4                        | 4.44                               | 1.83                        | 1.46                           | 1.41                           |
| RUCIO  | 1968 | 1.1                       | 0.42                        | 0.63                      | 4.8                       | 3.81                     | 6.26                      | 10.7                      | 5.48                       | 3.5                                | 2.97                        | 2.09                           | 0.68                           |
| RUCIO  | 1969 | 0.57                      | 0.63                        | 0.52                      | 2.09                      | 4.28                     | 4.64                      | 6.42                      | 5.17                       | 3.03                               | 2.77                        | 2.35                           | 1.62                           |
| RUCIO  | 1970 | 0.89                      | 0.94                        | 1.3                       | 3.24                      | 2.87                     | 6.31                      | 5.69                      | 4.12                       | 2.82                               | 4.02                        | 1.46                           | 1.1                            |
| RUCIO  | 1971 | 0.73                      | 0.78                        | 1.36                      | 2.19                      | 3.55                     | 5.43                      | 6.84                      | 4.7                        | 3.5                                | 1.98                        | 1.92                           | 0.91                           |
| RUCIO  | 1972 | 1.51                      | 0.89                        | 1.2                       | 2.4                       | 5.43                     | 5.58                      | 6.63                      | 4.02                       | 3.24                               | 1.46                        | 1.25                           | 0.63                           |
| RUCIO  | 1973 | 0.37                      | 0.31                        | 1.3                       | 0.94                      | 3.03                     | 4.23                      | 4.44                      | 3.97                       | 3.13                               | 2.19                        | 1.88                           | 0.83                           |
| RUCIO  | 1974 | 0.52                      | 0.57                        | 0.83                      | 2.3                       | 3.24                     | 3.34                      | 5.27                      | 4.75                       | 2.14                               | 1.77                        | 1.04                           | 0.47                           |
| RUCIO  | 1975 | 0.42                      | 0.31                        | 0.99                      | 1.41                      | 2.5                      | 8.14                      | 3.97                      | 4.17                       | 1.98                               | 1.85                        | 1.51                           | 0.93                           |
| RUCIO  | 1976 | 0.47                      | 0.42                        | 1.1                       | 2.19                      | 5.84                     | 7.93                      | 8.3                       | 3.6                        | 2.56                               | 1.31                        | 1.16                           | 0.73                           |
| RUCIO  | 1977 | 0.26                      | 0.37                        | 0.52                      | 0.99                      | 2.04                     | 4.8                       | 6.78                      | 2.71                       | 3.46                               | 1.97                        | 1.75                           | 0.52                           |
| RUCIO  | 1978 | 0.32                      | 0.32                        | 0.48                      | 2.41                      | 4.3                      | 6.1                       | 4.13                      | 6.18                       | 3.28                               | 3.63                        | 1.15                           | 0.86                           |
| RUCIO  | 1979 | 0.53                      | 0.22                        | 0.42                      | 1.8                       | 2.37                     | 5.68                      | 7.07                      | 5.3                        | 2.26                               | 2.23                        | 2.14                           | 2.59                           |
| RUCIO  | 1980 | 1.13                      | 0.52                        | 1.44                      | 2.88                      | 3.5                      | 4.53                      | 3.71                      | 3.71                       | 2.68                               | 2.37                        | 1.13                           | 0.62                           |
| RUCIO  | 1981 | 0.52                      | 0.62                        | 1.13                      | 1.55                      | 3.3                      | 4.22                      | 4.33                      | 3.09                       | 2.16                               | 2.37                        | 1.44                           | 1.13                           |
| RUCIO  | 1982 | 0.52                      | 0.41                        | 0.62                      | 2.68                      | 1.55                     | 1.96                      | 5.97                      | 5.46                       | 2.68                               | 1.34                        | 0.72                           | 0.62                           |
| RUCIO  | 1983 | 0.52                      | 0.82                        | 1.85                      | 2.58                      | 2.88                     | 3.71                      | 4.84                      | 5.15                       | 2.99                               | 2.68                        | 1.24                           | 2.83                           |
| RUCIO  | 1984 | 0.33                      | 1.72                        | 0.7                       | 0.77                      | 1.5                      | 5.02                      | 3.17                      | 3.38                       | 2.59                               | 1.17                        | 1.15                           | 0.79                           |
| RUCIO  | 1985 | 0.38                      | 0.33                        | 0.33                      | 0.49                      | 2.57                     | 6.07                      | 5.99                      | 4.4                        | 3.59                               | 2.59                        | 1.44                           | 1.01                           |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| RUCIO  | 1986 | 1.74                      | 1.87                        | 2.4                       | 4.16                      | 5.53                     | 7.81                      | 7.42                      | 6.05                       | 3.27                               | 3.36                        | 1.93                           | 1.78                           |
| RUCIO  | 1987 | 0.85                      | 1.5                         | 1.76                      | 3.3                       | 4.73                     | 6.67                      | 7.31                      | 3.38                       | 2.07                               | 1.54                        | 0.74                           | 0.72                           |
| RUCIO  | 1988 | 0.5                       | 0.5                         | 0.39                      | 2.42                      | 2.62                     | 2.95                      | 5.66                      | 1.97                       | 1.68                               | 1.38                        | 1.52                           | 0.77                           |
| RUCIO  | 1989 | 0.57                      | 0.56                        | 0.93                      | 1.14                      | 2.3                      | 1.06                      | 1.21                      | 4.85                       | 6.4                                | 3.73                        | 2.16                           | 1.06                           |
| RUCIO  | 1990 | 0.6                       | 0.59                        | 1.62                      | 1.87                      | 5.03                     | 6.11                      | 5.6                       | 2.99                       | 1.49                               | 1.04                        | 1.22                           | 0.99                           |
| RUCIO  | 1991 | 0.48                      | 0.51                        | 0.72                      | 1.21                      | 2.65                     | 4.55                      | 8.36                      | 6.79                       | 4.88                               | 2.39                        | 1.55                           | 0.8                            |
| RUCIO  | 1992 | 1.03                      | 0.92                        | 0.91                      | 1.86                      | 1.76                     | 3.57                      | 5.34                      | 5.6                        | 3.4                                | 2.64                        | 1.97                           | 1.52                           |
| RUCIO  | 1993 | 1.61                      | 1.4                         | 2.15                      | 3.09                      | 3.52                     | 3.11                      | 2.79                      | 3.7                        | 4.14                               | 2.9                         | 2.47                           | 2.77                           |
| RUCIO  | 1994 | 0.72                      | 0.57                        | 1.34                      | 3.02                      | 5.85                     | 6.58                      | 8.55                      | 8.27                       | 3.55                               | 2.18                        | 1.98                           | 0.91                           |
| RUCIO  | 1995 | 1.35                      | 1.17                        | 1.25                      | 2.08                      | 5.98                     | 1.34                      | 2.18                      | 2.14                       | 0.61                               | 2                           | 2.73                           | 1.71                           |
| RUCIO  | 1996 | 0.14                      | 0.35                        | 0.48                      | 0.96                      | 6.97                     | 6.86                      | 7.53                      | 2.97                       | 2.25                               | 3.29                        | 2.7                            | 1.51                           |
| RUCIO  | 1997 | 1.05                      | 1.48                        | 1.34                      | 3.2                       | 2.34                     | 5.43                      | 6.64                      | 5.54                       | 1.79                               | 1.97                        | 1.17                           | 0.69                           |
| RUCIO  | 1998 | 0.52                      | 0.68                        | 0.84                      | 2.27                      | 3.94                     | 3.36                      | 5.4                       | 3.18                       | 1.8                                | 1.55                        | 0.85                           | 0.5                            |
| RUCIO  | 1999 | 0.59                      | 0.86                        | 0.85                      | 5.91                      | 2.9                      | 3.69                      | 2.83                      | 3.07                       | 2.02                               | 4.55                        | 3.32                           | 0.84                           |
| RUCIO  | 2000 | 0.48                      | 0.64                        | 0.56                      | 1.13                      | 4.27                     | 3.91                      | 3.92                      | 3.85                       | 2.1                                | 2.02                        | 2.11                           | 1.21                           |
| RUCIO  | 2001 | 0.81                      | 0.47                        | 0.51                      | 1.63                      | 3.41                     | 4.99                      | 3.9                       | 4.87                       | 3.39                               | 1.47                        | 1.54                           | 1.33                           |
| RUCIO  | 2002 | 0.44                      | 0.37                        | 1.03                      | 2.67                      | 4.55                     | 5.49                      | 6.32                      | 5.32                       | 2.29                               | 0.79                        | 1.3                            | 0.52                           |
| RUCIO  | 2003 | 0.5                       | 0.41                        | 0.84                      | 2.3                       | 4.38                     | 3.37                      | 4.76                      | 4.91                       | 3.04                               | 2.12                        | 1.42                           | 1.15                           |
| RUCIO  | 2004 | 0.45                      | 0.4                         | 1.7                       | 3.04                      | 6.57                     | 8.82                      | 5.19                      | 5.74                       | 1.69                               | 1.48                        | 1.02                           | 0.65                           |
| RUCIO  | 2005 | 0.75                      | 1.53                        | 0.9                       | 3.03                      | 4.75                     | 4.04                      | 4.27                      | 4.75                       | 4.62                               | 2.06                        | 2.6                            | 1.07                           |
| RUCIO  | 2006 | 0.57                      | 0.4                         | 2.57                      | 4.21                      | 3.75                     | 6.33                      | 6.61                      | 4.65                       | 1.95                               | 2.39                        | 1.93                           | 1.37                           |
| RUCIO  | 2007 | 0.63                      | 0.45                        | 1.3                       | 2.51                      | 4.02                     | 5.92                      | 2.86                      | 3.19                       | 2.96                               | 2.06                        | 2.34                           | 0.81                           |
| RUCIO  | 2008 | 0.6                       | 0.53                        | 0.48                      | 0.77                      | 2.43                     | 6.57                      | 7.08                      | 3.85                       | 3.27                               | 2.19                        | 3.37                           | 1.11                           |
| RUCIO  | 2009 | 0.6                       | 0.57                        | 0.9                       | 1.45                      | 1.27                     | 3.69                      | 3.64                      | 5.12                       | 2.37                               | 1.62                        | 1.16                           | 0.38                           |
| RUCIO  | 2010 | 0.44                      | 0.22                        | 0.73                      | 1.99                      | 3.54                     | 3.1                       | 4.07                      | 2.29                       | 1.7                                | 1.25                        | 1.8                            | 1.32                           |
| RUCIO  | 2011 | 0.75                      | 0.63                        | 2.06                      | 2.68                      | 3.07                     | 4.63                      | 2.94                      | 3.63                       | 3.28                               | 2.41                        | 2.01                           | 1.22                           |
| RUCIO  | 2012 | 0.62                      | 0.9                         | 1.82                      | 3.09                      | 4.91                     | 5.51                      | 8.6                       | 5.93                       | 1.93                               | 1.58                        | 0.83                           | 0.67                           |
| RUCIO  | 2013 | 0.36                      | 0.94                        | 1.56                      | 2.57                      | 3.75                     | 3.5                       | 6.13                      | 5.89                       | 3.89                               | 2.6                         | 2.53                           | 1.59                           |
| RUCIO  | 2014 | 0.36                      | 0.32                        | 0.68                      | 1.7                       | 1.9                      | 6.46                      | 8.51                      | 5.29                       | 3.12                               | 2.08                        | 1.05                           | 1.43                           |
| RUCIO  | 2015 | 1.02                      | 0.92                        | 0.95                      | 2.36                      | 3.2                      | 11.6                      | 9.28                      | 7.22                       | 3.15                               | 1.69                        | 1.67                           | 1.58                           |

| Nombre | Año  | Caudal Enero (m3/s) | Caudal Febrero (m3/s) | Caudal Marzo (m3/s) | Caudal Abril (m3/s) | Caudal Mayo(m3/s) | Caudal Junio (m3/s) | Caudal Julio (m3/s) | Caudal Agosto (m3/s) | Caudal Septiembre (m3/s) | Caudal Octubre (m3/s) | Caudal Noviembre (m3/s) | Caudal Diciembre (m3/s) |
|--------|------|---------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| RUCIO  | 2016 | 0.6                 | 0.67                  | 0.86                | 4.15                | 4.61              | 5.59                | 8.4                 | 4.4                  | 4.56                     | 2.28                  | 2.37                    | 1.32                    |
| RUCIO  | 2017 | 1.1                 | 0.88                  | 1.56                | 1.45                | 3.44              | 4.65                | 9.29                | 3.12                 | 3.46                     | 2.28                  | 1.42                    | 0.8                     |

#### Formato 5. Embalses

| Nombre       | Mínimo Técnico (Mm3) | Máximo Técnico (Mm3) |
|--------------|----------------------|----------------------|
| LA ESMERALDA | 23.3                 | 610.89               |

#### Formato 6. Filtraciones

| Nombre       | m3/s |
|--------------|------|
| LA ESMERALDA | 0    |

#### Formato 7. Curvas de Operación Embalses

Formato No Registrado

#### Formato 8. Capacidad Arcos de Descarga

| Nombre                | Flujo Mínimo (m3/s) | Flujo Máximo (m3/s) | Fecha Entrada | Fecha Salida |
|-----------------------|---------------------|---------------------|---------------|--------------|
| NEGRO-NEGRO RUCIO     | 0                   | 30                  | 01/04/1997    | 01/12/2077   |
| RUCIO-NEGRO RUCIO     | 0                   | 18.2                | 01/12/1999    | 01/12/2077   |
| NEGRO RUCIO-ESMERALDA | 0                   | 48.2                | 01/04/1997    | 01/12/2077   |
| TUNJITA ESMERALDA     | 0                   | 40                  | 01/11/1994    | 01/12/2077   |

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

| Nombre | Flujo Mínimo (m3/s) | Flujo Máximo (m3/s) |
|--------|---------------------|---------------------|
| CHIVOR | 0                   | 145.48              |

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

| Nombre  | m3/s |
|---------|------|
| Tunjita | 40   |
| Rucio   | 18.2 |
| Negro   | 30   |

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

| Nombre  | Capacidad Efectiva Neta (MW) | Disponibilidad (%) |
|---------|------------------------------|--------------------|
| TUNJITA | 19.7                         | 0                  |

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

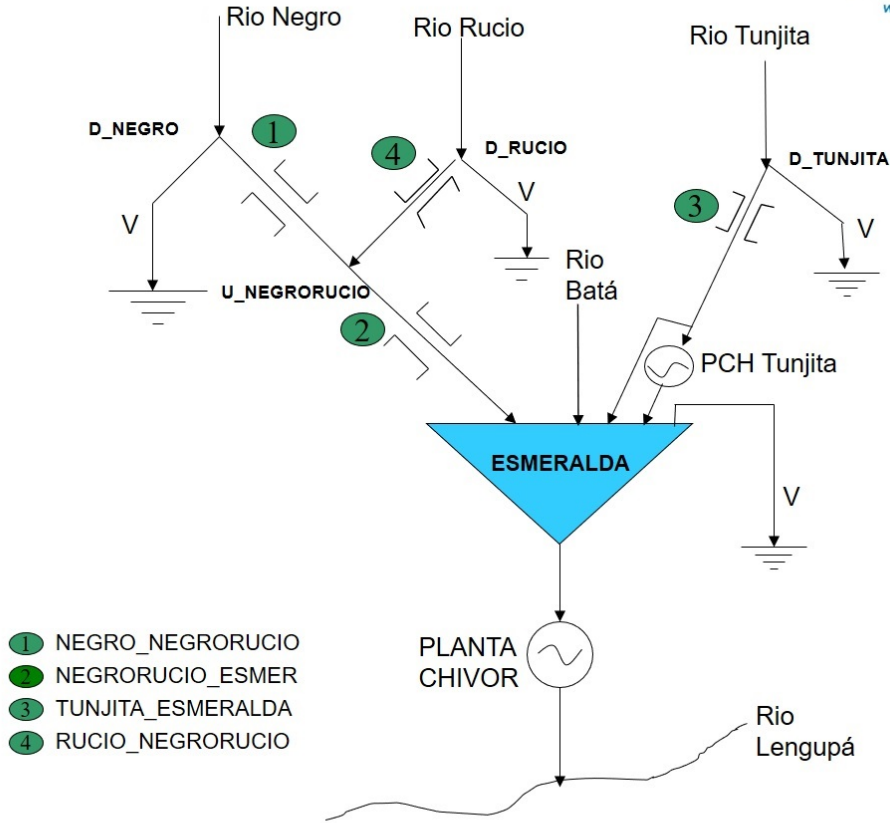
**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

TOPOLOGÍA CADENA HIDRÁULICA CHIVOR  **AES**  
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## **COMPAÑIA DE ELECTRICIDAD DE TULUA S.A. E.S.P.**

### **Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

### **Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

### **Formato 3. Plantas o Unidades Térmicas**

Formato No Registrado

### **Formato 4. Caudal Medio Mensual**

Formato No Registrado

### **Formato 5. Embalses**

Formato No Registrado

### **Formato 6. Filtraciones**

Formato No Registrado

### **Formato 7. Curvas de Operación Embalses**

Formato No Registrado

### **Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

### **Formato 9. Arco de Bombeo**

Formato No Registrado

### **Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

| Nombre      | Capacidad Efectiva Neta (MW) | Disponibilidad (%) |
|-------------|------------------------------|--------------------|
| Rumor       | 2.5                          | 25.0628            |
| Rio Frio I  | 1.44                         | 26.8242            |
| Rio Frio II | 10                           | 16.3423            |

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente COMPAÑIA DE ELECTRICIDAD DE TULUA S.A. E.S.P.**

**Compañía Eléctrica de Sochagota S.A. E.S.P.**

**Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

**Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

**Formato 3. Plantas o Unidades Térmicas**

| Nombre  | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|---------|------------------------------|-----------------------|---------|
| PAIPA 4 | 160                          | 9.172                 | 1.9     |

**Formato 4. Caudal Medio Mensual**

Formato No Registrado

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

| Nombre  | Combustible | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|---------|-------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| PAIPA 4 | Carbón      | 8760            | 1043723                  | 1043723              | 976386                 | 1043723              | 1010055              | 1043723             | 1010055              | 1043723              | 1043723               | 1010055                   | 1043723                | 1010055                  |

**Formato 17. Almacenamiento Combustible**

| Nombre  | Combustible | Capacidad Almacenamiento | Cantidad Almacenada (MBTU) |
|---------|-------------|--------------------------|----------------------------|
| PAIPA 4 | CARBON      | 40710                    | 0                          |

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente Compañía Eléctrica de Sochagota S.A. E.S.P.**

**EMPRESA DE ENERGIA DEL PACIFICO S.A. E.S.P.**

**Formato 1. Plantas o Unidades Hidráulicas**

| Nombre         | Capacidad Efectiva Neta (MW) | Eficiencia (MW/m3/s) | IHF (%) |
|----------------|------------------------------|----------------------|---------|
| Alto Anchicaya | 355                          | 3.906                | 28.9438 |
| Bajo Anchicaya | 74                           | 0.5321               | 79.9637 |
| CALIMA         | 132                          | 1.8546               | 53.5847 |
| SALVAJINA      | 315                          | 0.9794               | 35.8492 |
| PRADO          | 51                           | 0.4817               | 27.2754 |
| CUCUANA        | 58                           | 5.69                 | 56.7058 |

**Formato 2. Topología Plantas Hidráulicas**

| Nombre    | Elemento Clase | Elemento Nombre | Aportes Rio    | Aportes Embalse | Aportes Planta | Aportes Otro | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro     | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|-----------|----------------|-----------------|----------------|-----------------|----------------|--------------|--------------|------------------|------------------|-------------------|------------------|----------------------|---------------------|------------------|
| Prado     | E              | Prado           | Prado          |                 |                |              |              |                  | Prado-Prado4     |                   |                  |                      |                     | Tierra           |
| Prado     | P              | Prado           |                | Prado           |                |              |              |                  |                  | Tierra            |                  |                      |                     |                  |
| Prado     | OU             | Prado4          |                | Prado           |                |              |              |                  |                  | Asoprado - Tierra |                  |                      |                     |                  |
| Anchicaya | E              | Alto Anchicaya  | Alto Anchicaya |                 |                |              |              |                  | Alto Anchicaya   |                   |                  |                      | Bajo Anchicaya      |                  |
| Anchicaya | P              | Alto Anchicaya  |                | Alto Anchicaya  |                |              |              |                  | Bajo Anchicaya   |                   |                  |                      |                     |                  |

| Nombre    | Elemento Clase | Elemento Nombre | Aportes Rio          | Aportes Embalse | Aportes Planta | Aportes Otro                | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|-----------|----------------|-----------------|----------------------|-----------------|----------------|-----------------------------|--------------|------------------|------------------|---------------|------------------|----------------------|---------------------|------------------|
| Anchicaya | P              | Bajo Anchicaya  | Digua                |                 | Alto Anchicaya | Vertimientos Alto Anchicaya |              |                  |                  | Tierra        |                  |                      |                     | Tierra           |
| Calima    | E              | Calima          | Calima               |                 |                |                             |              |                  | Calima           |               |                  |                      |                     | Tierra           |
| Calima    | P              | Calima          |                      | Calima          |                |                             |              |                  |                  | Tierra        |                  |                      |                     |                  |
| Salvajina | E              | Salvajina       | Salvajina            |                 |                |                             |              |                  | Salvajina        |               |                  |                      |                     | Tierra           |
| Salvajina | P              | Salvajina       |                      | Salvajina       |                |                             |              |                  |                  | Tierra        |                  |                      |                     |                  |
| Cucuana   | E              | Cucuana         | Cucuana + San Marcos |                 |                |                             |              |                  | Cucuana          |               |                  |                      |                     | Tierra           |
| Cucuana   | P              | Cucuana         |                      | Cucuana         |                |                             |              |                  |                  | Tierra        |                  |                      |                     | Tierra           |
| Cucuana   | AD             | SM              | San Marcos           |                 |                |                             |              |                  | Cucuana          |               |                  |                      |                     |                  |

### Formato 3. Plantas o Unidades Térmicas

| Nombre            | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|-------------------|------------------------------|-----------------------|---------|
| TERMOMERILECTRICA | 167                          | 9.7655                | 8.0853  |

### Formato 4. Caudal Medio Mensual

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Prado  | 1955 | 41.2                      | 68.1                        | 74.6                      | 73.4                      | 36                       | 47.1                      | 39.3                      | 22.4                       | 23.6                               | 87.6                        | 76.1                           | 114.6                          |
| Prado  | 1956 | 62.5                      | 77                          | 56.3                      | 72.7                      | 55.9                     | 57.4                      | 24.3                      | 9.4                        | 40.3                               | 107.1                       | 79.4                           | 89.9                           |
| Prado  | 1957 | 25.7                      | 37.5                        | 62.2                      | 70                        | 83.6                     | 41.8                      | 10.4                      | 15                         | 14.7                               | 77.6                        | 87.3                           | 32.6                           |
| Prado  | 1958 | 15.9                      | 19.7                        | 30.1                      | 44.9                      | 40.7                     | 14.4                      | 17.5                      | 9.6                        | 7.2                                | 37.8                        | 55.4                           | 72.4                           |
| Prado  | 1959 | 49.1                      | 53.3                        | 18.1                      | 32.4                      | 63.7                     | 43                        | 22.8                      | 19.9                       | 10.8                               | 64                          | 97.2                           | 62.5                           |
| Prado  | 1960 | 69.2                      | 68.5                        | 40                        | 48.2                      | 57.2                     | 37.2                      | 30.7                      | 15.6                       | 14.5                               | 71.5                        | 95.6                           | 135                            |
| Prado  | 1961 | 31.4                      | 33.4                        | 30.9                      | 104                       | 33.6                     | 38.7                      | 24.1                      | 8.2                        | 9                                  | 32.4                        | 80.6                           | 30                             |
| Prado  | 1962 | 25                        | 24.6                        | 55.7                      | 54.3                      | 88.7                     | 66.2                      | 18.3                      | 17.4                       | 7.8                                | 70.7                        | 97.4                           | 47.6                           |
| Prado  | 1963 | 37.7                      | 72                          | 41.8                      | 100                       | 115                      | 28.1                      | 17.9                      | 13.3                       | 7.1                                | 43.6                        | 130                            | 36.1                           |
| Prado  | 1964 | 14.4                      | 14.6                        | 7.4                       | 51.7                      | 37.7                     | 57.3                      | 32                        | 21.9                       | 17                                 | 24.8                        | 49.2                           | 38.4                           |
| Prado  | 1965 | 22                        | 5.9                         | 13.5                      | 104                       | 58.5                     | 15.4                      | 4.7                       | 3                          | 8.6                                | 41.4                        | 216                            | 102.5                          |
| Prado  | 1966 | 34.6                      | 14.2                        | 43                        | 44.4                      | 51.7                     | 47.4                      | 22.8                      | 16.9                       | 11.6                               | 71.6                        | 156                            | 116.4                          |
| Prado  | 1967 | 34.1                      | 44.9                        | 54.8                      | 80.6                      | 74.8                     | 45.9                      | 23.9                      | 13.5                       | 10.6                               | 48.4                        | 100                            | 52                             |
| Prado  | 1968 | 40.1                      | 64.9                        | 50.1                      | 151                       | 77.4                     | 61.3                      | 26.8                      | 11.6                       | 20.8                               | 146.1                       | 111.3                          | 51.6                           |
| Prado  | 1969 | 23.8                      | 23.5                        | 18.7                      | 87.4                      | 92.1                     | 37                        | 12.4                      | 10.9                       | 19                                 | 142.7                       | 107.7                          | 53.8                           |
| Prado  | 1970 | 23.2                      | 34.6                        | 19.4                      | 41                        | 77.1                     | 26.9                      | 16.9                      | 12.1                       | 20                                 | 70.6                        | 126                            | 79.6                           |
| Prado  | 1971 | 123.5                     | 81                          | 134                       | 127                       | 138.7                    | 32                        | 17.8                      | 29.3                       | 25.6                               | 52.4                        | 64                             | 47.3                           |
| Prado  | 1972 | 101.8                     | 30.7                        | 82.8                      | 53                        | 75.8                     | 50.2                      | 87.1                      | 44.5                       | 45.1                               | 34.3                        | 78                             | 51.9                           |
| Prado  | 1973 | 17.2                      | 17.8                        | 22                        | 22.3                      | 34.2                     | 36.2                      | 31.5                      | 33.6                       | 33.2                               | 31.3                        | 94.2                           | 137.7                          |
| Prado  | 1974 | 59                        | 216.7                       | 116.7                     | 101                       | 102                      | 63.4                      | 85.4                      | 67.8                       | 62.6                               | 56.3                        | 54.7                           | 49.4                           |
| Prado  | 1975 | 57.3                      | 66.8                        | 66.2                      | 66.9                      | 71.7                     | 59.1                      | 61.7                      | 70.5                       | 72.4                               | 69.1                        | 63.9                           | 116.1                          |
| Prado  | 1976 | 78.6                      | 79.1                        | 76.6                      | 81.3                      | 120.6                    | 75.9                      | 82.5                      | 54.9                       | 22.4                               | 18.7                        | 34.5                           | 27.9                           |
| Prado  | 1977 | 39.3                      | 27.4                        | 27.7                      | 54.5                      | 41.4                     | 29                        | 20.4                      | 12.2                       | 15.1                               | 36.3                        | 62.3                           | 42.7                           |
| Prado  | 1978 | 36.1                      | 34.9                        | 45                        | 76.9                      | 51.5                     | 64.9                      | 43.8                      | 43.1                       | 45                                 | 52.1                        | 38.3                           | 26.9                           |
| Prado  | 1979 | 47.5                      | 58                          | 59.4                      | 82.8                      | 36.1                     | 39.3                      | 45.4                      | 45.7                       | 49.3                               | 52                          | 90.5                           | 83.9                           |
| Prado  | 1980 | 52.4                      | 62.5                        | 80.3                      | 50.2                      | 45.2                     | 37.1                      | 25.4                      | 17                         | 20.1                               | 27.7                        | 37.5                           | 43.2                           |
| Prado  | 1981 | 37                        | 37.5                        | 55.8                      | 49.2                      | 56.9                     | 103                       | 70.5                      | 46.3                       | 45.2                               | 50.3                        | 45.8                           | 46                             |
| Prado  | 1982 | 84.3                      | 94                          | 94                        | 139                       | 119.9                    | 97.6                      | 64.9                      | 44.2                       | 36.8                               | 24.9                        | 60.4                           | 50.4                           |
| Prado  | 1983 | 80.9                      | 60.3                        | 49.9                      | 49.6                      | 65.9                     | 51.4                      | 38.7                      | 31                         | 19.1                               | 19.6                        | 21.8                           | 27.6                           |
| Prado  | 1984 | 57.2                      | 64.9                        | 68.6                      | 74.9                      | 47.6                     | 52.8                      | 47.1                      | 58.3                       | 54.5                               | 50.9                        | 82.4                           | 58.6                           |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Prado  | 1985 | 68.6                      | 53.8                        | 44.8                      | 33.6                      | 40.6                     | 42.3                      | 30.9                      | 334.9                      | 51.2                               | 69.6                        | 61                             | 60                             |
| Prado  | 1986 | 54                        | 61.1                        | 89.7                      | 117.3                     | 94.3                     | 74                        | 61.4                      | 52.7                       | 33.5                               | 59                          | 73.4                           | 57.4                           |
| Prado  | 1987 | 45.4                      | 52.3                        | 52.8                      | 41.2                      | 51                       | 33.6                      | 25.4                      | 26.4                       | 19.5                               | 19.7                        | 28                             | 68.2                           |
| Prado  | 1988 | 80.61                     | 54.48                       | 53.84                     | 41.23                     | 38.03                    | 38.73                     | 40.26                     | 43.9                       | 46.37                              | 43.71                       | 66.48                          | 169.28                         |
| Prado  | 1989 | 57.35                     | 96.71                       | 161.11                    | 76.92                     | 66.81                    | 56.75                     | 56.3                      | 54.99                      | 41.09                              | 60.69                       | 54.37                          | 61.11                          |
| Prado  | 1990 | 57.31                     | 58.11                       | 65.32                     | 70.13                     | 78.76                    | 57.63                     | 51.66                     | 36.81                      | 19.89                              | 24.79                       | 41.14                          | 63.68                          |
| Prado  | 1991 | 43.25                     | 41.93                       | 56.64                     | 85.09                     | 65.37                    | 47.12                     | 31.53                     | 23.76                      | 22.16                              | 36.74                       | 37.33                          | 60.85                          |
| Prado  | 1992 | 45.2                      | 41                          | 5                         | 28.5                      | 43                       | 14.7                      | 7.8                       | 7.1                        | 8.7                                | 9.3                         | 77.5                           | 86.3                           |
| Prado  | 1993 | 37.42                     | 66.28                       | 65.82                     | 78.47                     | 94.31                    | 25.56                     | 11                        | 7.57                       | 17.75                              | 27.15                       | 115.97                         | 72.5                           |
| Prado  | 1994 | 55.45                     | 49.1                        | 79.74                     | 103.2                     | 80.24                    | 37.96                     | 13.22                     | 9.29                       | 18.51                              | 90.45                       | 123.8                          | 37.3                           |
| Prado  | 1995 | 10.45                     | 20.23                       | 61.65                     | 93.96                     | 71.7                     | 37.34                     | 22.86                     | 40.38                      | 12.65                              | 79.98                       | 89.99                          | 53.44                          |
| Prado  | 1996 | 62.05                     | 61.41                       | 102.06                    | 65.65                     | 97.93                    | 60.61                     | 26.85                     | 78.1                       | 20.68                              | 69.11                       | 59.8                           | 53.67                          |
| Prado  | 1997 | 88.63                     | 54.5                        | 45.41                     | 45.25                     | 29.61                    | 31.47                     | 12.31                     | 4.86                       | 10.47                              | 16.39                       | 33.9                           | 16.03                          |
| Prado  | 1998 | 6.98                      | 13.65                       | 22.66                     | 74.27                     | 65.45                    | 30.13                     | 22.6                      | 16.76                      | 21.53                              | 48.71                       | 112.36                         | 101.42                         |
| Prado  | 1999 | 76.01                     | 120.05                      | 80.19                     | 88.43                     | 60.22                    | 53.87                     | 30.9                      | 10.34                      | 29.55                              | 89.01                       | 108.59                         | 99.56                          |
| Prado  | 2000 | 48.1                      | 70.66                       | 95.99                     | 62.64                     | 64.04                    | 47.55                     | 25.22                     | 15.64                      | 27.89                              | 42.37                       | 68.44                          | 29.52                          |
| Prado  | 2001 | 14.84                     | 22.23                       | 69.19                     | 22.31                     | 41.75                    | 30.62                     | 9.9                       | 7.05                       | 13.3                               | 25.54                       | 76.82                          | 105.27                         |
| Prado  | 2002 | 18.35                     | 17.65                       | 37.66                     | 109.62                    | 65.77                    | 53.16                     | 15.29                     | 8.68                       | 14.92                              | 47.26                       | 53.73                          | 49.04                          |
| Prado  | 2003 | 14.41                     | 24.88                       | 43.61                     | 83.6                      | 29.77                    | 41.77                     | 12.24                     | 9.78                       | 10.98                              | 73.56                       | 92.39                          | 83.9                           |
| Prado  | 2004 | 43.71                     | 25.76                       | 12.8                      | 67.14                     | 54.39                    | 19.84                     | 16.85                     | 8.18                       | 14.72                              | 71.08                       | 132.22                         | 80.86                          |
| Prado  | 2005 | 33.91                     | 58.93                       | 50.61                     | 38.71                     | 73.03                    | 21.87                     | 11.68                     | 10.13                      | 13.86                              | 114.91                      | 118.16                         | 83.93                          |
| Prado  | 2006 | 56.83                     | 47.2                        | 102.78                    | 119.51                    | 74.56                    | 51.41                     | 17.22                     | 12.75                      | 10.01                              | 73.93                       | 99.38                          | 81.3                           |
| Prado  | 2007 | 29.06                     | 15.94                       | 31.69                     | 87.37                     | 75.48                    | 37.46                     | 14.83                     | 16.96                      | 13.21                              | 96.71                       | 82.37                          | 94.22                          |
| Prado  | 2008 | 59.86                     | 89.54                       | 99.85                     | 80.27                     | 118.48                   | 54.86                     | 39.67                     | 38.3                       | 33.59                              | 66.1                        | 230.87                         | 101.52                         |
| Prado  | 2009 | 53.91                     | 58.85                       | 114.5                     | 106.41                    | 70.89                    | 28.26                     | 16.82                     | 14.84                      | 10.05                              | 34.99                       | 68.3                           | 27.71                          |
| Prado  | 2010 | 8.85                      | 10.54                       | 11.12                     | 82.87                     | 87.93                    | 53.52                     | 68.14                     | 22.88                      | 32.06                              | 64.06                       | 201.42                         | 124.87                         |
| Prado  | 2011 | 33.32                     | 89.31                       | 135.94                    | 265.12                    | 134.73                   | 50.28                     | 31.74                     | 18.38                      | 11.09                              | 88.37                       | 172.64                         | 188.93                         |
| Prado  | 2012 | 89.98                     | 45.51                       | 55.68                     | 109.32                    | 50.79                    | 18.21                     | 10.02                     | 6.76                       | 5.61                               | 34.39                       | 57.13                          | 57.39                          |
| Prado  | 2013 | 29.36                     | 90.72                       | 48.13                     | 42.11                     | 75.47                    | 29.01                     | 19.22                     | 31.95                      | 21.14                              | 42.43                       | 126.22                         | 131.07                         |
| Prado  | 2014 | 64.2                      | 81.61                       | 135.24                    | 79.38                     | 124.32                   | 28.5                      | 20.52                     | 18.88                      | 17.17                              | 41.14                       | 103.17                         | 59.63                          |

| Nombre         | Año  | Caudal Enero (m3/s) | Caudal Febrero (m3/s) | Caudal Marzo (m3/s) | Caudal Abril (m3/s) | Caudal Mayo(m3/s) | Caudal Junio (m3/s) | Caudal Julio (m3/s) | Caudal Agosto (m3/s) | Caudal Septiembre (m3/s) | Caudal Octubre (m3/s) | Caudal Noviembre (m3/s) | Caudal Diciembre (m3/s) |
|----------------|------|---------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| Prado          | 2015 | 23.12               | 57.2                  | 97.05               | 91.11               | 36.57             | 17.86               | 14.36               | 8.79                 | 17.26                    | 24.56                 | 47.83                   | 14                      |
| Prado          | 2016 | 10.48               | 12.8                  | 36.39               | 64.22               | 49.93             | 29.48               | 30.38               | 16.61                | 18.56                    | 46.26                 | 87.34                   | 66.01                   |
| Prado          | 2017 | 86.24               | 65.99                 | 127.46              | 102.16              | 101.2             | 31.63               | 37.43               | 20.48                | 15.81                    | 23.5                  | 110.28                  | 78.08                   |
| Alto Anchicaya | 1975 |                     |                       |                     |                     |                   |                     |                     | 56.6                 | 62.5                     | 70.9                  | 69.2                    | 73.8                    |
| Alto Anchicaya | 1976 | 48                  | 53.6                  | 46.5                | 49.8                | 58.5              | 38.2                | 16.3                | 11.9                 | 19.4                     | 43.4                  | 56.8                    | 39.2                    |
| Alto Anchicaya | 1977 | 24.3                | 22.8                  | 26.2                | 35.5                | 73                | 45.7                | 34.9                | 40.4                 | 48.1                     | 81.7                  | 64.5                    | 48.3                    |
| Alto Anchicaya | 1978 | 43.5                | 20                    | 32.6                | 78.6                | 62.1              | 42.3                | 39.2                | 23.3                 | 37.5                     | 58.9                  | 61.5                    | 73                      |
| Alto Anchicaya | 1979 | 39.4                | 25.6                  | 45.6                | 51.9                | 57.1              | 51.1                | 32.1                | 38.3                 | 54.3                     | 57.7                  | 53.2                    | 46.9                    |
| Alto Anchicaya | 1980 | 35.1                | 47                    | 29.1                | 31.5                | 51.7              | 48.3                | 26.8                | 26.7                 | 32.2                     | 59.3                  | 53.6                    | 59.1                    |
| Alto Anchicaya | 1981 | 36                  | 55                    | 46.8                | 73.1                | 78                | 53.5                | 47.8                | 37.3                 | 32.9                     | 68.6                  | 53.6                    | 55.9                    |
| Alto Anchicaya | 1982 | 59.5                | 59                    | 51.9                | 80.2                | 70.8              | 46.9                | 23.4                | 12.5                 | 23.8                     | 52.4                  | 55.2                    | 40.1                    |
| Alto Anchicaya | 1983 | 20.9                | 15.6                  | 30.5                | 54                  | 48.2              | 34.8                | 16.9                | 12                   | 18.4                     | 39.9                  | 41.5                    | 56.2                    |
| Alto Anchicaya | 1984 | 44                  | 50.6                  | 33.6                | 49.4                | 60.5              | 47.9                | 42.1                | 44.4                 | 64.4                     | 81.9                  | 56.8                    | 62.2                    |
| Alto Anchicaya | 1985 | 59.1                | 24.2                  | 28.4                | 30.8                | 34.4              | 33.6                | 16.7                | 37.2                 | 37.7                     | 55.5                  | 56.7                    | 42.3                    |

| <b>Nombre</b>  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Alto Anchicaya | 1986       | 53.7                               | 49                                   | 27.9                               | 56.1                               | 55.8                              | 38.1                               | 23.4                               | 14.3                                | 22.4                                         | 68.7                                 | 64                                      | 27.1                                    |
| Alto Anchicaya | 1987       | 31.4                               | 28                                   | 17.7                               | 27.7                               | 51.9                              | 32                                 | 23.1                               | 32.7                                | 33.5                                         | 68.9                                 | 50.5                                    | 40.7                                    |
| Alto Anchicaya | 1988       | 27.6                               | 33.8                                 | 20                                 | 53.8                               | 44.9                              | 48.6                               | 49.2                               | 42.9                                | 49.2                                         | 68                                   | 99.1                                    | 57.9                                    |
| Alto Anchicaya | 1989       | 57.3                               | 44.7                                 | 34.6                               | 24.1                               | 50.7                              | 44.5                               | 28.3                               | 29.2                                | 47.3                                         | 68                                   | 62.4                                    | 51.5                                    |
| Alto Anchicaya | 1990       | 46.4                               | 43.2                                 | 40.4                               | 48.7                               | 38.8                              | 29                                 | 25.8                               | 18.8                                | 31.3                                         | 46.2                                 | 62                                      | 40.3                                    |
| Alto Anchicaya | 1991       | 29.6                               | 23.1                                 | 30.4                               | 36.3                               | 58.3                              | 54.4                               | 24.2                               | 17.9                                | 27.4                                         | 36.4                                 | 45.3                                    | 46.9                                    |
| Alto Anchicaya | 1992       | 29.6                               | 27.5                                 | 24                                 | 24.4                               | 30.8                              | 24.1                               | 15.7                               | 16.52                               | 28.8                                         | 36.8                                 | 45.6                                    | 54.9                                    |
| Alto Anchicaya | 1993       | 47.3                               | 36.8                                 | 31.2                               | 50.8                               | 59.7                              | 32                                 | 23.8                               | 15.5                                | 34.35                                        | 62.3                                 | 74.8                                    | 59                                      |
| Alto Anchicaya | 1994       | 52.02                              | 43.87                                | 57.23                              | 74.12                              | 60.37                             | 50.91                              | 29.67                              | 29.59                               | 30.37                                        | 57.96                                | 62.07                                   | 52.46                                   |
| Alto Anchicaya | 1995       | 25.3                               | 17.8                                 | 26.5                               | 53.9                               | 61.4                              | 62.5                               | 46.4                               | 37.7                                | 39.4                                         | 65.9                                 | 58.4                                    | 64.4                                    |
| Alto Anchicaya | 1996       | 35.5                               | 41                                   | 52.8                               | 48.66                              | 69.13                             | 56.27                              | 46.94                              | 46.74                               | 50.26                                        | 65.38                                | 67.61                                   | 47.32                                   |
| Alto Anchicaya | 1997       | 69.54                              | 38.14                                | 39.12                              | 47.82                              | 37.12                             | 45.27                              | 15.84                              | 10.18                               | 20.93                                        | 26.69                                | 60.19                                   | 22.89                                   |

| <b>Nombre</b>  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Alto Anchicaya | 1998       | 16.7                               | 27.7                                 | 30                                 | 63.51                              | 48.98                             | 39.7                               | 33.9                               | 33.3                                | 46.8                                         | 43.9                                 | 71.91                                   | 49.6                                    |
| Alto Anchicaya | 1999       | 60.63                              | 77.54                                | 51.57                              | 57.5                               | 48.47                             | 53.09                              | 32.53                              | 37.85                               | 52.09                                        | 64.57                                | 72.23                                   | 65.8                                    |
| Alto Anchicaya | 2000       | 51.71                              | 48.83                                | 44.35                              | 50.16                              | 53.87                             | 56.6                               | 39.47                              | 33.35                               | 44.64                                        | 61.55                                | 59.21                                   | 39.82                                   |
| Alto Anchicaya | 2001       | 34.04                              | 37.62                                | 47.31                              | 31.39                              | 52.36                             | 43.12                              | 34.14                              | 21.21                               | 36.22                                        | 58.25                                | 69.39                                   | 69.4                                    |
| Alto Anchicaya | 2002       | 30.71                              | 21.48                                | 40.41                              | 63.11                              | 37.77                             | 28.82                              | 34.34                              | 27.59                               | 36.65                                        | 54.54                                | 51.4                                    | 50.92                                   |
| Alto Anchicaya | 2003       | 34.01                              | 33.79                                | 33.99                              | 58.54                              | 68.47                             | 60.8                               | 37.24                              | 38.72                               | 40                                           | 71.39                                | 60.47                                   | 52.61                                   |
| Alto Anchicaya | 2004       | 52.6                               | 20.52                                | 21.4                               | 43.91                              | 54.37                             | 32.98                              | 37.27                              | 25.77                               | 44.86                                        | 68.61                                | 65.53                                   | 52.92                                   |
| Alto Anchicaya | 2005       | 50.78                              | 47.65                                | 45.63                              | 43.46                              | 52.7                              | 41.51                              | 27.59                              | 30.09                               | 32.01                                        | 69.25                                | 77.15                                   | 45.55                                   |
| Alto Anchicaya | 2006       | 42.9                               | 45.27                                | 54.85                              | 63.61                              | 66.52                             | 59.62                              | 29.14                              | 26.54                               | 22.5                                         | 37.73                                | 54.27                                   | 61.27                                   |
| Alto Anchicaya | 2007       | 60.42                              | 28.77                                | 38.45                              | 63.55                              | 60.38                             | 45.8                               | 37.82                              | 39.93                               | 42.02                                        | 68.33                                | 64.91                                   | 66.41                                   |
| Alto Anchicaya | 2008       | 65.62                              | 52.99                                | 39.64                              | 54.8                               | 69.47                             | 45.07                              | 40.54                              | 42.43                               | 39.82                                        | 45.41                                | 56                                      | 41.53                                   |
| Alto Anchicaya | 2009       | 48.24                              | 45.59                                | 55.91                              | 49.8                               | 42.28                             | 48.76                              | 27.7                               | 21.52                               | 25.48                                        | 31.62                                | 48                                      | 42.66                                   |

| <b>Nombre</b>  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Alto Anchicaya | 2010       | 22.57                              | 31.27                                | 27.37                              | 53.35                              | 42.49                             | 44.84                              | 59.15                              | 34.88                               | 44.67                                        | 59.7                                 | 98.73                                   | 73.5                                    |
| Alto Anchicaya | 2011       | 45.21                              | 57.99                                | 42.69                              | 66.83                              | 45.51                             | 35.3                               | 36.99                              | 31.65                               | 40.39                                        | 55.78                                | 72.66                                   | 75.83                                   |
| Alto Anchicaya | 2012       | 72.7                               | 42.02                                | 43.19                              | 55.62                              | 48.63                             | 27.99                              | 22.84                              | 22.31                               | 18.84                                        | 44.19                                | 49.17                                   | 42.51                                   |
| Alto Anchicaya | 2013       | 28.65                              | 35.05                                | 46                                 | 48.61                              | 71.16                             | 40.05                              | 29.96                              | 36.6                                | 46.09                                        | 47.78                                | 64.47                                   | 58.87                                   |
| Alto Anchicaya | 2014       | 48.16                              | 52.2                                 | 43.45                              | 47.65                              | 55.88                             | 32.3                               | 20.7                               | 18.45                               | 25.04                                        | 51.39                                | 57.92                                   | 35.35                                   |
| Alto Anchicaya | 2015       | 29.1                               | 36.68                                | 45.98                              | 37.89                              | 32.11                             | 24.76                              | 21.53                              | 17.12                               | 17.7                                         | 36.06                                | 51.54                                   | 24.12                                   |
| Alto Anchicaya | 2016       | 22.16                              | 24.07                                | 37.02                              | 49.1                               | 58.74                             | 34.83                              | 33.64                              | 27.65                               | 41.59                                        | 67.15                                | 73                                      | 56.83                                   |
| Alto Anchicaya | 2017       | 54.12                              | 18.62                                | 48.66                              | 42.31                              | 50.73                             | 38.04                              | 24.36                              | 23.68                               | 41.23                                        | 48.49                                | 77.89                                   | 65.12                                   |
| Digua          | 1975       |                                    |                                      |                                    |                                    |                                   |                                    |                                    | 23.7                                | 36.8                                         | 36.9                                 | 62.9                                    | 73.1                                    |
| Digua          | 1976       | 38.2                               | 40.9                                 | 54.1                               | 34.1                               | 43.7                              | 30.4                               | 12                                 | 5.8                                 | 8.2                                          | 18.1                                 | 35.9                                    | 19.3                                    |
| Digua          | 1977       | 12.6                               | 10.2                                 | 9.5                                | 16.2                               | 51.4                              | 35                                 | 19.4                               | 26.5                                | 26.2                                         | 44.8                                 | 43.4                                    | 22                                      |
| Digua          | 1978       | 16.7                               | 6.9                                  | 14.4                               | 43.2                               | 41.8                              | 28                                 | 21.9                               | 18.1                                | 21.9                                         | 46                                   | 40.1                                    | 42.3                                    |
| Digua          | 1979       | 20.3                               | 12.2                                 | 18                                 | 17                                 | 22.2                              | 29.7                               | 19.3                               | 19.6                                | 41                                           | 43                                   | 42.3                                    | 37.7                                    |
| Digua          | 1980       | 18.9                               | 22.7                                 | 17.7                               | 14.7                               | 29.3                              | 22.2                               | 20.9                               | 21.9                                | 25.6                                         | 39.5                                 | 45.2                                    | 40.8                                    |
| Digua          | 1981       | 26.9                               | 21.6                                 | 18.5                               | 32.8                               | 43                                | 34.4                               | 29.7                               | 29.2                                | 26.4                                         | 34.1                                 | 59                                      | 26.6                                    |
| Digua          | 1982       | 38.2                               | 33.7                                 | 30.3                               | 49.8                               | 38.1                              | 20.6                               | 16.4                               | 10.1                                | 20.2                                         | 40.9                                 | 39.8                                    | 21.4                                    |
| Digua          | 1983       | 10.7                               | 7.8                                  | 8.3                                | 22.5                               | 25.4                              | 21.7                               | 6.8                                | 5.5                                 | 8.3                                          | 21.4                                 | 37                                      | 45.1                                    |
| Digua          | 1984       | 28.2                               | 23.8                                 | 19.5                               | 20.6                               | 29.8                              | 23.9                               | 26.8                               | 24.8                                | 39.7                                         | 52.2                                 | 50.6                                    | 46.6                                    |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Digua  | 1985 | 33                        | 17.7                        | 18.5                      | 24.3                      | 27.3                     | 31.1                      | 17.9                      | 29                         | 28.5                               | 51.5                        | 57                             | 39                             |
| Digua  | 1986 | 27.7                      | 35.7                        | 21                        | 34.4                      | 40.8                     | 31                        | 20.8                      | 13.3                       | 13.9                               | 65.6                        | 47.3                           | 26.3                           |
| Digua  | 1987 | 21.1                      | 18.7                        | 14.5                      | 19.1                      | 35.5                     | 29.6                      | 19.9                      | 25.5                       | 23.8                               | 53                          | 35.9                           | 32                             |
| Digua  | 1988 | 25.8                      | 23.8                        | 16.3                      | 29.4                      | 31.8                     | 36.8                      | 36.6                      | 30.7                       | 35.8                               | 51.9                        | 67.6                           | 35.3                           |
| Digua  | 1989 | 34.9                      | 37.4                        | 25                        | 16.5                      | 38.4                     | 32.4                      | 24.1                      | 21.9                       | 31.1                               | 43.1                        | 52                             | 41.5                           |
| Digua  | 1990 | 30.8                      | 26                          | 21.9                      | 28.7                      | 26.3                     | 20                        | 14.9                      | 15.2                       | 23.6                               | 51.2                        | 48.7                           | 36.3                           |
| Digua  | 1991 | 28.3                      | 17.4                        | 22                        | 27.5                      | 41.1                     | 32.2                      | 19.8                      | 15                         | 25.2                               | 33.9                        | 42.5                           | 36.9                           |
| Digua  | 1992 | 21.1                      | 23.99                       | 16.33                     | 13.28                     | 20.51                    | 19.98                     | 14.5                      | 13.4                       | 25.8                               | 33.2                        | 33.9                           | 42.9                           |
| Digua  | 1993 | 35.8                      | 27.9                        | 25                        | 31                        | 35.7                     | 25.87                     | 23.5                      | 16.7                       | 27.55                              | 44.8                        | 49.9                           | 35.27                          |
| Digua  | 1994 | 30.72                     | 32.12                       | 33.56                     | 53.61                     | 52.85                    | 34.23                     | 15.37                     | 18.09                      | 21.4                               | 65.4                        | 65.24                          | 31.57                          |
| Digua  | 1995 | 11.77                     | 10.94                       | 17.05                     | 36.69                     | 38.63                    | 38.99                     | 27.99                     | 27.07                      | 32.7                               | 51.13                       | 34.72                          | 41.64                          |
| Digua  | 1996 | 24.1                      | 25                          | 25.4                      | 36.27                     | 30.58                    | 32.32                     | 30.18                     | 34.93                      | 37.78                              | 48.96                       | 35.62                          | 36.84                          |
| Digua  | 1997 | 48.86                     | 24.39                       | 30.9                      | 30.03                     | 24.17                    | 27.85                     | 9.67                      | 5.57                       | 12.26                              | 14.66                       | 41.87                          | 17.57                          |
| Digua  | 1998 | 9.6                       | 19.9                        | 14.79                     | 27.03                     | 25.74                    | 22.4                      | 15.2                      | 21.5                       | 30.2                               | 29.21                       | 57.57                          | 33.8                           |
| Digua  | 1999 | 37.68                     | 48.86                       | 23.49                     | 31.1                      | 24.27                    | 23.23                     | 22.32                     | 30.3                       | 35.38                              | 35.7                        | 45.88                          | 47.75                          |
| Digua  | 2000 | 28.56                     | 19.86                       | 25.66                     | 27.02                     | 26.42                    | 32.5                      | 39.07                     | 27.08                      | 29.98                              | 31.16                       | 31.16                          | 28.25                          |
| Digua  | 2001 | 18.67                     | 17.93                       | 21.08                     | 12.8                      | 28.01                    | 25.16                     | 24.2                      | 13.59                      | 24.81                              | 43.24                       | 44.04                          | 44.64                          |
| Digua  | 2002 | 23.77                     | 14.37                       | 23.01                     | 42.19                     | 33.22                    | 19.38                     | 26.24                     | 22.95                      | 33.2                               | 44.38                       | 38.34                          | 38.52                          |
| Digua  | 2003 | 23.16                     | 21.33                       | 21.19                     | 38.66                     | 30.53                    | 34.55                     | 23.83                     | 27.88                      | 26.87                              | 51.22                       | 30.23                          | 35.04                          |
| Digua  | 2004 | 31.88                     | 12.18                       | 9.58                      | 19.78                     | 39.47                    | 27.64                     | 24.78                     | 16.99                      | 27.84                              | 35.48                       | 47.08                          | 36.87                          |
| Digua  | 2005 | 33.52                     | 29.03                       | 23.2                      | 23.74                     | 36.64                    | 28.1                      | 15.93                     | 20.26                      | 43.11                              | 40.81                       | 34.26                          | 17.95                          |
| Digua  | 2006 | 18.73                     | 14.06                       | 19.02                     | 43.88                     | 49.36                    | 38.39                     | 20.9                      | 15.07                      | 14.22                              | 27.89                       | 37.64                          | 40.87                          |
| Digua  | 2007 | 33.27                     | 16.24                       | 18.09                     | 34.42                     | 32.35                    | 26.75                     | 24.93                     | 23.68                      | 27.69                              | 57.61                       | 47.99                          | 63.14                          |
| Digua  | 2008 | 43.17                     | 36.64                       | 23.23                     | 27.57                     | 38.78                    | 23.76                     | 18.79                     | 22.25                      | 24.13                              | 28.71                       | 31.76                          | 30.96                          |
| Digua  | 2009 | 26.73                     | 21.7                        | 35.92                     | 32.24                     | 27.4                     | 38.55                     | 12.79                     | 12.91                      | 15.92                              | 30.31                       | 33.66                          | 17.95                          |
| Digua  | 2010 | 8.62                      | 8.77                        | 8.18                      | 15.52                     | 16.35                    | 17.92                     | 27.73                     | 11.39                      | 19.52                              | 39.93                       | 57.9                           | 36.31                          |
| Digua  | 2011 | 9.05                      | 13.25                       | 8.56                      | 20.24                     | 26.79                    | 30.92                     | 27.07                     | 22.31                      | 28.76                              | 47.71                       | 66.69                          | 61.19                          |
| Digua  | 2012 | 32.55                     | 10.04                       | 25.61                     | 32.69                     | 34.76                    | 15.55                     | 17.59                     | 20.54                      | 19.42                              | 39.47                       | 37.04                          | 41.53                          |
| Digua  | 2013 | 31.57                     | 36.79                       | 26.11                     | 23.26                     | 27.32                    | 26.38                     | 19.85                     | 25.49                      | 36.28                              | 56.47                       | 79.73                          | 46.83                          |
| Digua  | 2014 | 49.43                     | 50.42                       | 58.24                     | 49.77                     | 30.15                    | 13.22                     | 7.29                      | 10.34                      | 24.3                               | 42.42                       | 56.9                           | 30.08                          |

| Nombre    | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|-----------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Digua     | 2015 | 16.47                     | 22.57                       | 24.82                     | 29.09                     | 26.96                    | 23.02                     | 15.2                      | 13.51                      | 15.4                               | 26.06                       | 45.51                          | 19.74                          |
| Digua     | 2016 | 18.34                     | 19.68                       | 22.58                     | 32.82                     | 31.01                    | 20.31                     | 21.35                     | 29.19                      | 32.54                              | 42.73                       | 49.35                          | 40.44                          |
| Digua     | 2017 | 26.95                     | 11.41                       | 15.67                     | 23.83                     | 23.84                    | 19.17                     | 19.74                     | 19.57                      | 23.79                              | 30.77                       | 54.58                          | 39.81                          |
| Salvajina | 1946 |                           |                             |                           |                           |                          |                           |                           |                            |                                    | 52                          | 121                            | 144                            |
| Salvajina | 1947 | 129                       | 106                         | 75                        | 61                        | 72                       | 95                        | 94                        | 78                         | 74                                 | 212                         | 255                            | 139                            |
| Salvajina | 1948 | 95                        | 77                          | 144                       | 201                       | 135                      | 117                       | 72                        | 60                         | 39                                 | 93                          | 135                            | 123                            |
| Salvajina | 1949 | 149                       | 151                         | 120                       | 127                       | 160                      | 121                       | 98                        | 79                         | 64                                 | 122                         | 288                            | 256                            |
| Salvajina | 1950 | 197                       | 379                         | 373                       | 317                       | 375                      | 294                       | 202                       | 129                        | 80                                 | 127                         | 269                            | 336                            |
| Salvajina | 1951 | 224                       | 208                         | 184                       | 135                       | 170                      | 125                       | 119                       | 73                         | 65                                 | 90                          | 202                            | 197                            |
| Salvajina | 1952 | 161                       | 159                         | 125                       | 125                       | 173                      | 116                       | 92                        | 72                         | 50                                 | 62                          | 147                            | 241                            |
| Salvajina | 1953 | 151                       | 125                         | 100                       | 127                       | 128                      | 107                       | 82                        | 59                         | 54                                 | 160                         | 284                            | 332                            |
| Salvajina | 1954 | 154                       | 143                         | 125                       | 219                       | 144                      | 124                       | 135                       | 119                        | 52                                 | 164                         | 257                            | 344                            |
| Salvajina | 1955 | 234                       | 123                         | 210                       | 214                       | 193                      | 165                       | 147                       | 93                         | 84                                 | 181                         | 259                            | 340                            |
| Salvajina | 1956 | 311                       | 206                         | 172                       | 122                       | 148                      | 200                       | 118                       | 98                         | 89                                 | 168                         | 187                            | 238                            |
| Salvajina | 1957 | 184                       | 96                          | 131                       | 136                       | 196                      | 165                       | 90                        | 64                         | 46                                 | 65                          | 104                            | 182                            |
| Salvajina | 1958 | 112                       | 85                          | 68                        | 94                        | 109                      | 91                        | 75                        | 71                         | 42                                 | 56                          | 133                            | 161                            |
| Salvajina | 1959 | 139                       | 84                          | 63                        | 78                        | 120                      | 128                       | 108                       | 59                         | 52                                 | 88                          | 129                            | 177                            |
| Salvajina | 1960 | 241                       | 193                         | 121                       | 130                       | 120                      | 87                        | 88                        | 65                         | 52                                 | 80                          | 173                            | 230                            |
| Salvajina | 1961 | 111                       | 91                          | 78                        | 142                       | 89                       | 119                       | 101                       | 72                         | 42                                 | 62                          | 206                            | 149                            |
| Salvajina | 1962 | 118                       | 130                         | 146                       | 109                       | 147                      | 162                       | 88                        | 74                         | 53                                 | 94                          | 162                            | 267                            |
| Salvajina | 1963 | 121                       | 218                         | 152                       | 228                       | 209                      | 132                       | 94                        | 82                         | 49                                 | 60                          | 213                            | 153                            |
| Salvajina | 1964 | 130                       | 92                          | 70                        | 142                       | 141                      | 188                       | 117                       | 98                         | 88                                 | 121                         | 190                            | 226                            |
| Salvajina | 1965 | 163                       | 106                         | 78                        | 126                       | 142                      | 74                        | 77                        | 55                         | 45                                 | 95                          | 208                            | 240                            |
| Salvajina | 1966 | 127                       | 77                          | 81                        | 89                        | 130                      | 108                       | 103                       | 76                         | 59                                 | 113                         | 274                            | 606                            |
| Salvajina | 1967 | 195                       | 199                         | 188                       | 132                       | 137                      | 160                       | 121                       | 92                         | 50                                 | 77                          | 246                            | 164                            |
| Salvajina | 1968 | 116                       | 156                         | 135                       | 177                       | 125                      | 133                       | 137                       | 74                         | 68                                 | 149                         | 203                            | 159                            |
| Salvajina | 1969 | 126                       | 141                         | 88                        | 207                       | 180                      | 127                       | 92                        | 62                         | 47                                 | 161                         | 194                            | 175                            |
| Salvajina | 1970 | 111                       | 178                         | 198                       | 105                       | 146                      | 135                       | 79                        | 80                         | 73                                 | 165                         | 366                            | 258                            |
| Salvajina | 1971 | 310                       | 235                         | 229                       | 238                       | 212                      | 137                       | 123                       | 83                         | 86                                 | 137                         | 216                            | 180                            |
| Salvajina | 1972 | 220                       | 188                         | 144                       | 145                       | 146                      | 138                       | 115                       | 58                         | 59                                 | 68                          | 146                            | 157                            |

| Nombre    | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|-----------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Salvajina | 1973 | 71                        | 50                          | 53                        | 81                        | 104                      | 111                       | 107                       | 122                        | 150                                | 197                         | 288                            | 287                            |
| Salvajina | 1974 | 252                       | 284                         | 245                       | 146                       | 147                      | 109                       | 114                       | 74                         | 75                                 | 159                         | 288                            | 211                            |
| Salvajina | 1975 | 126                       | 188                         | 188                       | 131                       | 185                      | 145                       | 141                       | 109                        | 110                                | 156                         | 307                            | 398                            |
| Salvajina | 1976 | 190                       | 177                         | 191                       | 202                       | 165                      | 124                       | 132                       | 74                         | 58                                 | 81                          | 126                            | 123                            |
| Salvajina | 1977 | 75                        | 59                          | 52                        | 82                        | 116                      | 100                       | 74                        | 57                         | 80                                 | 158                         | 208                            | 126                            |
| Salvajina | 1978 | 147                       | 63                          | 62                        | 141                       | 139                      | 104                       | 74                        | 61                         | 50                                 | 76                          | 124                            | 240                            |
| Salvajina | 1979 | 136                       | 84                          | 145                       | 142                       | 148                      | 161                       | 83                        | 63                         | 91                                 | 129                         | 207                            | 146                            |
| Salvajina | 1980 | 134                       | 177                         | 128                       | 103                       | 105                      | 103                       | 71                        | 49                         | 49                                 | 100                         | 143                            | 205                            |
| Salvajina | 1981 | 124                       | 116                         | 154                       | 216                       | 242                      | 149                       | 122                       | 63                         | 55                                 | 66                          | 207                            | 195                            |
| Salvajina | 1982 | 241                       | 185                         | 235                       | 234                       | 229                      | 129                       | 114                       | 73                         | 64                                 | 112                         | 173                            | 194                            |
| Salvajina | 1983 | 122                       | 114                         | 117                       | 232                       | 176                      | 116                       | 71                        | 74                         | 46                                 | 74                          | 119                            | 201                            |
| Salvajina | 1984 | 237                       | 195                         | 152                       | 173                       | 213                      | 174                       | 119                       | 82                         | 100                                | 211                         | 279                            | 264                            |
| Salvajina | 1985 | 259                       | 124                         | 88                        | 131                       | 163                      | 129                       | 102                       | 83                         | 78                                 | 133                         | 206                            | 180                            |
| Salvajina | 1986 | 169                       | 202                         | 198                       | 161                       | 144                      | 147                       | 126                       | 59                         | 58                                 | 160                         | 187                            | 140                            |
| Salvajina | 1987 | 93                        | 63                          | 60                        | 84                        | 130                      | 82                        | 74                        | 69                         | 46                                 | 115                         | 142                            | 124                            |
| Salvajina | 1988 | 72                        | 73                          | 71                        | 106                       | 101                      | 121                       | 168                       | 73                         | 94                                 | 113                         | 354                            | 324                            |
| Salvajina | 1989 | 249                       | 223                         | 223                       | 128                       | 172                      | 122                       | 107                       | 58                         | 64                                 | 96                          | 128                            | 148                            |
| Salvajina | 1990 | 196                       | 150                         | 132                       | 167                       | 185                      | 105                       | 88                        | 76                         | 49                                 | 84                          | 123                            | 152                            |
| Salvajina | 1991 | 147                       | 80                          | 125                       | 144                       | 126                      | 97                        | 114                       | 97                         | 69                                 | 67                          | 150                            | 176                            |
| Salvajina | 1992 | 121                       | 104                         | 69                        | 82                        | 74                       | 67                        | 92                        | 63                         | 40                                 | 42                          | 103                            | 175                            |
| Salvajina | 1993 | 160                       | 127                         | 139                       | 165                       | 166                      | 109                       | 86                        | 61                         | 52                                 | 62                          | 180                            | 239                            |
| Salvajina | 1994 | 211                       | 157                         | 153                       | 186                       | 149                      | 117                       | 95                        | 85                         | 56                                 | 97                          | 180                            | 192                            |
| Salvajina | 1995 | 112                       | 77                          | 89                        | 146                       | 148                      | 107                       | 94                        | 83                         | 59                                 | 134                         | 164                            | 196                            |
| Salvajina | 1996 | 186                       | 205                         | 206                       | 164                       | 144                      | 127                       | 145                       | 73                         | 51                                 | 125                         | 148                            | 187                            |
| Salvajina | 1997 | 319                       | 201                         | 137                       | 136                       | 125                      | 125                       | 141                       | 58                         | 42                                 | 55                          | 114                            | 88                             |
| Salvajina | 1998 | 44                        | 61                          | 55                        | 113                       | 129                      | 134                       | 89                        | 60                         | 49                                 | 95                          | 269                            | 210                            |
| Salvajina | 1999 | 273                       | 307                         | 234                       | 252                       | 160                      | 119                       | 97                        | 71                         | 98                                 | 137                         | 291                            | 389                            |
| Salvajina | 2000 | 329                       | 261                         | 261                       | 211                       | 198                      | 157                       | 112                       | 108                        | 92                                 | 86                          | 165                            | 136                            |
| Salvajina | 2001 | 99.36                     | 80.64                       | 123.5                     | 85.28                     | 92.5                     | 102.51                    | 68.33                     | 65.78                      | 54.9                               | 62.03                       | 126.26                         | 230.12                         |
| Salvajina | 2002 | 130.13                    | 67.16                       | 80.04                     | 161.35                    | 117.24                   | 115.18                    | 75.91                     | 62.38                      | 38.16                              | 59.84                       | 92.9                           | 124.18                         |

| Nombre    | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|-----------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Salvajina | 2003 | 67.74                     | 58.08                       | 81.26                     | 131.65                    | 113.7                    | 116.08                    | 92.17                     | 49.1                       | 45.02                              | 100.1                       | 153.85                         | 156.14                         |
| Salvajina | 2004 | 168.21                    | 86.29                       | 73.38                     | 124.06                    | 111.26                   | 93.24                     | 67.69                     | 60.88                      | 41.46                              | 98.6                        | 233.73                         | 202.98                         |
| Salvajina | 2005 | 155.31                    | 186.31                      | 182.09                    | 124.31                    | 129.83                   | 85.7                      | 66.49                     | 58.33                      | 50.14                              | 116.09                      | 212.19                         | 243.09                         |
| Salvajina | 2006 | 191.61                    | 163.76                      | 191.98                    | 204.39                    | 182.18                   | 149.21                    | 89.8                      | 58.23                      | 47.96                              | 64.23                       | 144.82                         | 210.59                         |
| Salvajina | 2007 | 121.95                    | 77.85                       | 118                       | 202.75                    | 200.52                   | 168.92                    | 75.37                     | 70.15                      | 50.82                              | 141.13                      | 227.48                         | 317                            |
| Salvajina | 2008 | 208.74                    | 234.64                      | 210.87                    | 194.76                    | 215.05                   | 161.19                    | 143.33                    | 98.65                      | 100.04                             | 123.93                      | 294.64                         | 270.67                         |
| Salvajina | 2009 | 213.67                    | 176.52                      | 190.25                    | 177.24                    | 108.96                   | 85.27                     | 72.87                     | 55.15                      | 32.79                              | 43.47                       | 94.4                           | 139.17                         |
| Salvajina | 2010 | 69.29                     | 64.17                       | 43.54                     | 125.5                     | 139.86                   | 114.06                    | 124.06                    | 81.67                      | 56.29                              | 116.71                      | 349.25                         | 270.35                         |
| Salvajina | 2011 | 171.37                    | 202.37                      | 223.59                    | 280.74                    | 194.66                   | 129.51                    | 120.13                    | 59.23                      | 50.31                              | 131.33                      | 213.03                         | 364.24                         |
| Salvajina | 2012 | 279.88                    | 180.55                      | 118.75                    | 162.19                    | 125.17                   | 77.64                     | 59.35                     | 50.82                      | 34.01                              | 56.34                       | 94.25                          | 129.25                         |
| Salvajina | 2013 | 72.63                     | 116.31                      | 111.18                    | 102.43                    | 144.61                   | 104.43                    | 86.35                     | 62.23                      | 44.45                              | 46.21                       | 141.55                         | 202.7                          |
| Salvajina | 2014 | 181.34                    | 149.99                      | 229.55                    | 106.91                    | 195.93                   | 135.25                    | 105.33                    | 66.87                      | 37.08                              | 60.5                        | 138.31                         | 172.34                         |
| Salvajina | 2015 | 77.41                     | 88.71                       | 97.66                     | 111.08                    | 64.76                    | 105.09                    | 63.77                     | 46.43                      | 19.82                              | 35.52                       | 81.4                           | 35.5                           |
| Salvajina | 2016 | 36.15                     | 29.74                       | 72.55                     | 111.76                    | 128.11                   | 100.03                    | 77.66                     | 38.42                      | 32.95                              | 67.79                       | 128.19                         | 180.19                         |
| Salvajina | 2017 | 212.33                    | 86.9                        | 204.57                    | 193.48                    | 267.26                   | 143.42                    | 113.44                    | 61.69                      | 37.4                               | 57.33                       | 217.1                          | 204.38                         |
| Calima    | 1946 | 12.9                      | 7.7                         | 9.7                       | 20.9                      | 30.5                     | 11.4                      | 6.4                       | 4.6                        | 3.5                                | 9.4                         | 19                             | 17                             |
| Calima    | 1947 | 13.5                      | 11.6                        | 9                         | 12.4                      | 16.3                     | 20.2                      | 18.6                      | 12.8                       | 15.7                               | 27.5                        | 18.9                           | 12.4                           |
| Calima    | 1948 | 7.8                       | 7.2                         | 7.8                       | 15                        | 23.7                     | 22.6                      | 11.6                      | 5.2                        | 8.6                                | 16.8                        | 23                             | 13.1                           |
| Calima    | 1949 | 12.2                      | 13.7                        | 13.7                      | 13.2                      | 24                       | 18.6                      | 15.5                      | 10.1                       | 9.7                                | 25.3                        | 32.3                           | 17.6                           |
| Calima    | 1950 | 13.2                      | 23                          | 28.2                      | 28.9                      | 39.8                     | 35.7                      | 16.4                      | 13.9                       | 8.6                                | 17.7                        | 29.9                           | 25.8                           |
| Calima    | 1951 | 14.8                      | 18.4                        | 11.8                      | 10.6                      | 16                       | 15.9                      | 12.6                      | 7.6                        | 8.2                                | 10.9                        | 22.6                           | 17.4                           |
| Calima    | 1952 | 14.1                      | 14.8                        | 9.5                       | 10.3                      | 20.3                     | 13.5                      | 10.5                      | 10.3                       | 6.7                                | 10.3                        | 18.7                           | 20.1                           |
| Calima    | 1953 | 13.3                      | 11.2                        | 8.3                       | 13.1                      | 15.8                     | 10.2                      | 6.4                       | 4.2                        | 6.5                                | 24.2                        | 27.4                           | 20.3                           |
| Calima    | 1954 | 11.7                      | 8.6                         | 8.7                       | 18.3                      | 21.6                     | 15.1                      | 12.8                      | 10.9                       | 6.5                                | 17.9                        | 22.4                           | 29.2                           |
| Calima    | 1955 | 17.2                      | 11.2                        | 14.6                      | 22.5                      | 18.6                     | 17.9                      | 14.1                      | 12.6                       | 12.2                               | 30.3                        | 29                             | 32.6                           |
| Calima    | 1956 | 22.6                      | 17.6                        | 13.2                      | 15.1                      | 16.8                     | 19.3                      | 9.5                       | 6.1                        | 5.9                                | 15.4                        | 18.7                           | 16.7                           |
| Calima    | 1957 | 11.9                      | 8.3                         | 8.8                       | 11.7                      | 12.8                     | 9.8                       | 5.7                       | 4.4                        | 4.1                                | 8.6                         | 13.8                           | 13.9                           |
| Calima    | 1958 | 7.6                       | 5.9                         | 6                         | 8.7                       | 14.2                     | 11.4                      | 6.8                       | 7.6                        | 4.6                                | 7.5                         | 11.6                           | 11.9                           |
| Calima    | 1959 | 9.3                       | 5.5                         | 5                         | 10.2                      | 14.9                     | 17.8                      | 11.1                      | 8.5                        | 6.2                                | 14.8                        | 14.9                           | 19.2                           |
| Calima    | 1960 | 22.5                      | 18.7                        | 8.4                       | 14                        | 15.1                     | 14.3                      | 13.7                      | 8.6                        | 6.7                                | 15.4                        | 21.4                           | 26.1                           |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Calima | 1961 | 11.6                      | 8.8                         | 6.8                       | 17.9                      | 12.2                     | 14                        | 9.5                       | 5.1                        | 5.9                                | 8.2                         | 24.9                           | 15.3                           |
| Calima | 1962 | 11.9                      | 10.5                        | 10.2                      | 19.9                      | 19.7                     | 19                        | 11.4                      | 8.8                        | 6.5                                | 15                          | 21.1                           | 15.8                           |
| Calima | 1963 | 9.7                       | 15.2                        | 12.9                      | 15.4                      | 20.4                     | 13.9                      | 10                        | 7.9                        | 7                                  | 12.2                        | 31.9                           | 12.1                           |
| Calima | 1964 | 6.9                       | 5.1                         | 5                         | 22.8                      | 18                       | 23                        | 15                        | 12.6                       | 10.6                               | 18.3                        | 16.7                           | 14.7                           |
| Calima | 1965 | 13                        | 7.6                         | 6                         | 12                        | 13.3                     | 5.6                       | 4.1                       | 5.4                        | 9.2                                | 15.9                        | 19.5                           | 12.4                           |
| Calima | 1966 | 7.8                       | 5.5                         | 5.4                       | 6.9                       | 13.2                     | 14.1                      | 12.8                      | 8.9                        | 6.2                                | 11.6                        | 22.5                           | 9.5                            |
| Calima | 1967 | 9.6                       | 10.5                        | 10.3                      | 4.9                       | 11.5                     | 11.2                      | 6.5                       | 6.1                        | 4.8                                | 12.6                        | 19.4                           | 13.5                           |
| Calima | 1968 | 7.8                       | 8.7                         | 8.3                       | 16.3                      | 11.8                     | 14.9                      | 9.5                       | 5.7                        | 11.6                               | 19.6                        | 18.6                           | 12.7                           |
| Calima | 1969 | 7.5                       | 6.2                         | 6.1                       | 13.5                      | 15.6                     | 12.3                      | 4.1                       | 4.5                        | 6.6                                | 18.9                        | 13.8                           | 10.3                           |
| Calima | 1970 | 7.6                       | 7.6                         | 11.1                      | 12.7                      | 14.8                     | 14                        | 8.5                       | 5.5                        | 8                                  | 17                          | 28                             | 20.7                           |
| Calima | 1971 | 23.9                      | 21.3                        | 22.6                      | 18.1                      | 24.3                     | 13.1                      | 8.2                       | 10.8                       | 15.4                               | 21.1                        | 26.9                           | 12.7                           |
| Calima | 1972 | 16.7                      | 11.8                        | 9.6                       | 9.4                       | 14                       | 10.7                      | 5.1                       | 3.4                        | 4.5                                | 8.3                         | 17.1                           | 10.7                           |
| Calima | 1973 | 3.7                       | 0.6                         | 3.5                       | 6.7                       | 12.3                     | 16.8                      | 9.1                       | 18.4                       | 24.9                               | 27.4                        | 29.5                           | 20.5                           |
| Calima | 1974 | 20.5                      | 22.5                        | 15.8                      | 12.9                      | 15.8                     | 14.7                      | 7.9                       | 6.5                        | 11.1                               | 20.1                        | 26.2                           | 15.8                           |
| Calima | 1975 | 7.9                       | 11.2                        | 12.7                      | 9.7                       | 15.9                     | 11                        | 13                        | 10.8                       | 14.8                               | 16.6                        | 35.4                           | 31.1                           |
| Calima | 1976 | 9.6                       | 7.3                         | 9.6                       | 8.6                       | 16.7                     | 9.5                       | 2.8                       | 1                          | 1.5                                | 6.2                         | 9.3                            | 8                              |
| Calima | 1977 | 4.1                       | 3.1                         | 2.3                       | 4.3                       | 10.6                     | 9.1                       | 5.8                       | 10.7                       | 7.6                                | 22.4                        | 22.7                           | 11.8                           |
| Calima | 1978 | 7.9                       | 3.9                         | 6.2                       | 19.6                      | 18.1                     | 10                        | 9.2                       | 5.2                        | 7.7                                | 17.3                        | 18.1                           | 21.1                           |
| Calima | 1979 | 8                         | 5.1                         | 8.3                       | 16.5                      | 16.5                     | 15                        | 6.9                       | 7.7                        | 13.1                               | 13.2                        | 19.8                           | 15                             |
| Calima | 1980 | 8.3                       | 9.3                         | 5.3                       | 5.3                       | 9.2                      | 8.9                       | 3.1                       | 2.4                        | 2.7                                | 11.7                        | 15.5                           | 15.9                           |
| Calima | 1981 | 8.3                       | 7.5                         | 7.6                       | 15.6                      | 25.7                     | 16.5                      | 13.6                      | 7.8                        | 7.9                                | 13.3                        | 26.9                           | 17.6                           |
| Calima | 1982 | 15.1                      | 12                          | 10.7                      | 15.2                      | 26.1                     | 12.8                      | 4.9                       | 1.2                        | 3.1                                | 10.8                        | 14.6                           | 10.8                           |
| Calima | 1983 | 4.9                       | 1.3                         | 4.8                       | 14.7                      | 14                       | 8.6                       | 3.1                       | 0.2                        | 1.5                                | 7.4                         | 8.6                            | 14.9                           |
| Calima | 1984 | 13.3                      | 13.7                        | 8                         | 13                        | 13.8                     | 11                        | 11.1                      | 7.8                        | 12.5                               | 22.5                        | 24.4                           | 14.4                           |
| Calima | 1985 | 17.3                      | 9.2                         | 5.4                       | 6.2                       | 9.5                      | 9.5                       | 2.4                       | 6.6                        | 11.3                               | 17.3                        | 17.4                           | 13.1                           |
| Calima | 1986 | 10.95                     | 12.15                       | 12.35                     | 17.6                      | 12.88                    | 12.08                     | 4.56                      | 4.07                       | 3.13                               | 18.2                        | 15.94                          | 7.21                           |
| Calima | 1987 | 4.8                       | 2.59                        | 5.7                       | 5.57                      | 8.73                     | 4.73                      | 3.72                      | 5.7                        | 4.87                               | 14.2                        | 9.9                            | 8.28                           |
| Calima | 1988 | 3.81                      | 4.48                        | 4.76                      | 13.54                     | 13.94                    | 11.9                      | 12.03                     | 8.6                        | 14.15                              | 18.36                       | 32.75                          | 22.16                          |
| Calima | 1989 | 16.77                     | 12.53                       | 13.58                     | 6.63                      | 11.24                    | 9.3                       | 5.88                      | 5.7                        | 10.91                              | 15.14                       | 17.92                          | 21.17                          |
| Calima | 1990 | 14.15                     | 8.34                        | 6.4                       | 8.5                       | 8.8                      | 6.25                      | 4.7                       | 2.56                       | 4.2                                | 11.46                       | 13.2                           | 13.16                          |

| Nombre        | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|---------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Calima        | 1991 | 8.53                      | 5.7                         | 6.25                      | 6.71                      | 13.25                    | 11.09                     | 8.99                      | 4.74                       | 5.3                                | 6.27                        | 9.07                           | 7.33                           |
| Calima        | 1992 | 5.55                      | 5.96                        | 6                         | 6.71                      | 6.86                     | 4.72                      | 2.89                      | 1.55                       | 3.6                                | 5.2                         | 6.9                            | 10.6                           |
| Calima        | 1993 | 9.6                       | 6.3                         | 7.8                       | 12.4                      | 17                       | 7.2                       | 3.9                       | 2                          | 6.07                               | 8.4                         | 15.8                           | 17.5                           |
| Calima        | 1994 | 10.46                     | 12.6                        | 18.38                     | 21.98                     | 19.71                    | 15.42                     | 5.75                      | 2.96                       | 4.06                               | 10.67                       | 17.1                           | 12.1                           |
| Calima        | 1995 | 3.9                       | 1.9                         | 2.6                       | 11.5                      | 9.3                      | 9.8                       | 7.8                       | 8.5                        | 4.7                                | 16.6                        | 16.4                           | 14.9                           |
| Calima        | 1996 | 9.8                       | 12.8                        | 12.5                      | 9.48                      | 14.23                    | 14.09                     | 11.75                     | 6.41                       | 7.61                               | 13.26                       | 15.23                          | 13.54                          |
| Calima        | 1997 | 17.35                     | 11.56                       | 11.95                     | 10.33                     | 8.86                     | 12.26                     | 4.66                      | 3.72                       | 3.59                               | 3.63                        | 12.18                          | 5.02                           |
| Calima        | 1998 | 3.4                       | 3.7                         | 4.07                      | 9.11                      | 9.9                      | 11                        | 7.2                       | 7.6                        | 11.7                               | 7.87                        | 19.79                          | 13.2                           |
| Calima        | 1999 | 12.26                     | 20.27                       | 22.28                     | 17.58                     | 14.08                    | 10.03                     | 5.99                      | 4.91                       | 17.5                               | 17.46                       | 29.09                          | 25.08                          |
| Calima        | 2000 | 18.43                     | 11.75                       | 19.31                     | 22.97                     | 25.75                    | 15.13                     | 8.9                       | 4.97                       | 8.22                               | 9.49                        | 24.37                          | 8.27                           |
| Calima        | 2001 | 4.8                       | 3.78                        | 9.09                      | 11.99                     | 11.36                    | 9.54                      | 6.62                      | 2.63                       | 3.69                               | 6.62                        | 15.16                          | 17.42                          |
| Calima        | 2002 | 8.18                      | 3.13                        | 4.91                      | 10.46                     | 8.22                     | 5.01                      | 4.1                       | 2.05                       | 4.15                               | 8.75                        | 13.57                          | 12.66                          |
| Calima        | 2003 | 3.55                      | 3.29                        | 3.01                      | 12.3                      | 9.53                     | 10.4                      | 6.75                      | 6.8                        | 5.52                               | 21.4                        | 22.28                          | 18.65                          |
| Calima        | 2004 | 16.5                      | 7                           | 4.19                      | 8.2                       | 10.84                    | 10.83                     | 10.09                     | 6.67                       | 11.22                              | 17.63                       | 23.94                          | 15.84                          |
| Calima        | 2005 | 11.35                     | 13.73                       | 12.14                     | 11.64                     | 15.93                    | 9.52                      | 7.93                      | 5.49                       | 5.88                               | 11.99                       | 20.23                          | 20.2                           |
| Calima        | 2006 | 14.3                      | 10.9                        | 16.2                      | 25.81                     | 23.08                    | 15.69                     | 9.42                      | 6.36                       | 10.69                              | 15.55                       | 15.47                          | 18.3                           |
| Calima        | 2007 | 12                        | 6.43                        | 10.74                     | 16                        | 14.87                    | 12.33                     | 9.58                      | 10.44                      | 11.33                              | 21.32                       | 26.4                           | 26.68                          |
| Calima        | 2008 | 16.43                     | 16.22                       | 17.3                      | 20.33                     | 22.98                    | 14.19                     | 10.61                     | 9.63                       | 13.27                              | 12.28                       | 23.02                          | 21.29                          |
| Calima        | 2009 | 14.22                     | 11.28                       | 14.39                     | 16.01                     | 10.88                    | 7.65                      | 6.58                      | 4.08                       | 3.36                               | 6.33                        | 12.8                           | 9.53                           |
| Calima        | 2010 | 3.94                      | 2.76                        | 4.83                      | 9.78                      | 13.88                    | 11.52                     | 15.37                     | 7.51                       | 10.42                              | 17.21                       | 39                             | 27.01                          |
| Calima        | 2011 | 12.43                     | 12.11                       | 11.95                     | 14.35                     | 10.52                    | 8.64                      | 8.04                      | 5.69                       | 5.85                               | 16.49                       | 21.65                          | 35.53                          |
| Calima        | 2012 | 17.95                     | 10.58                       | 11.83                     | 14.98                     | 16.89                    | 7.23                      | 4.82                      | 3.27                       | 3.01                               | 7.09                        | 5.77                           | 8.87                           |
| Calima        | 2013 | 4.34                      | 8.42                        | 15.37                     | 11.34                     | 18.91                    | 11.67                     | 5.17                      | 5.09                       | 6.37                               | 7.22                        | 10.58                          | 17.13                          |
| Calima        | 2014 | 12.6                      | 9.09                        | 14.38                     | 11.51                     | 17.12                    | 8.04                      | 4.69                      | 2.96                       | 4.34                               | 10.93                       | 15.02                          | 10.05                          |
| Calima        | 2015 | 6.98                      | 6.25                        | 9.72                      | 13.36                     | 8.5                      | 5.27                      | 3.9                       | 2.53                       | 3.2                                | 4.57                        | 8.99                           | 4.98                           |
| Calima        | 2016 | 3.11                      | 2.48                        | 4.46                      | 8.67                      | 11.92                    | 8.69                      | 6.02                      | 3.79                       | 6.79                               | 11.67                       | 21.78                          | 16.1                           |
| Calima        | 2017 | 14.14                     | 6.11                        | 12.25                     | 20.51                     | 22.76                    | 14.65                     | 8.31                      | 6.28                       | 7.24                               | 11.13                       | 25.2                           | 18.68                          |
| San<br>Marcos | 1972 | 1.75                      | 0.68                        | 0.95                      | 1.76                      | 4.2                      | 1.52                      | 1.16                      | 1.46                       | 1.36                               | 1.19                        | 1.78                           | 1.38                           |
| San<br>Marcos | 1973 | 0.45                      | 0.38                        | 1.42                      | 1.24                      | 2.5                      | 1.67                      | 1.96                      | 5.39                       | 2.92                               | 1.22                        | 2.37                           | 2.55                           |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| San Marcos    | 1974       | 2.06                               | 3.32                                 | 3.83                               | 2.45                               | 4.21                              | 2.88                               | 3.06                               | 2.27                                | 2.62                                         | 2.75                                 | 2.43                                    | 1.18                                    |
| San Marcos    | 1975       | 0.77                               | 1.72                                 | 1.59                               | 1.48                               | 3.21                              | 4.23                               | 3.55                               | 2.07                                | 3.09                                         | 3.87                                 | 3.76                                    | 4.38                                    |
| San Marcos    | 1976       | 0.55                               | 0.73                                 | 1.47                               | 2.5                                | 4.42                              | 4.69                               | 1.45                               | 1.51                                | 1.42                                         | 2.81                                 | 2.25                                    | 1.45                                    |
| San Marcos    | 1977       | 0.69                               | 1.03                                 | 0.74                               | 1.98                               | 2.66                              | 2.64                               | 2.2                                | 2.26                                | 1.81                                         | 2.83                                 | 2.96                                    | 1.33                                    |
| San Marcos    | 1978       | 1.04                               | 0.76                                 | 2.1                                | 4.01                               | 2.3                               | 2.13                               | 2.57                               | 2.09                                | 1.67                                         | 2.67                                 | 2.15                                    | 2.44                                    |
| San Marcos    | 1979       | 0.84                               | 0.82                                 | 1.64                               | 2.89                               | 2.17                              | 2.86                               | 1.74                               | 1.75                                | 2.87                                         | 2.3                                  | 3.4                                     | 2.08                                    |
| San Marcos    | 1980       | 1.32                               | 1.4                                  | 0.59                               | 1.83                               | 2.29                              | 4.45                               | 1.77                               | 1.62                                | 1.9                                          | 2.75                                 | 1.93                                    | 1.48                                    |
| San Marcos    | 1981       | 0.7                                | 0.83                                 | 0.83                               | 2.35                               | 4.24                              | 2.54                               | 2.52                               | 1.52                                | 2.02                                         | 2.56                                 | 3.13                                    | 1.98                                    |
| San Marcos    | 1982       | 2.38                               | 2.32                                 | 1.55                               | 4.82                               | 4.27                              | 1.58                               | 1.69                               | 1.51                                | 1.13                                         | 1.87                                 | 1.68                                    | 1.91                                    |
| San Marcos    | 1983       | 0.85                               | 0.52                                 | 1.16                               | 2.85                               | 1.69                              | 0.96                               | 1.24                               | 1.49                                | 0.99                                         | 1.53                                 | 1.26                                    | 1.98                                    |
| San Marcos    | 1984       | 2.15                               | 1.51                                 | 0.89                               | 1.92                               | 3.21                              | 3.11                               | 3.4                                | 2.54                                | 3.19                                         | 3.16                                 | 3.39                                    | 1.78                                    |
| San Marcos    | 1985       | 1.4                                | 0.68                                 | 0.89                               | 1.65                               | 2.73                              | 2.51                               | 2.53                               | 2                                   | 3.02                                         | 3.96                                 | 3.9                                     | 1.32                                    |
| San Marcos    | 1986       | 1.28                               | 2.74                                 | 2.68                               | 2.3                                | 2.83                              | 3.49                               | 3.39                               | 1.61                                | 1.69                                         | 3.93                                 | 1.94                                    | 1.03                                    |
| San Marcos    | 1987       | 0.55                               | 0.92                                 | 0.84                               | 2.5                                | 3.35                              | 1.45                               | 2.4                                | 2.48                                | 1.96                                         | 3.24                                 | 2.31                                    | 1.56                                    |
| San Marcos    | 1988       | 0.63                               | 0.78                                 | 0.7                                | 2.25                               | 2.36                              | 3.94                               | 3.99                               | 2.9                                 | 3.55                                         | 1.77                                 | 3.69                                    | 1.57                                    |
| San Marcos    | 1989       | 0.94                               | 0.87                                 | 2.04                               | 0.85                               | 3.56                              | 2.29                               | 2.22                               | 1.81                                | 2.08                                         | 3.13                                 | 1.85                                    | 0.82                                    |
| San Marcos    | 1990       | 1.36                               | 1.23                                 | 2.05                               | 1.82                               | 2.9                               | 2.76                               | 3.01                               | 1.78                                | 2.05                                         | 2.83                                 | 2.03                                    | 1.74                                    |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| San Marcos    | 1991       | 0.82                               | 0.38                                 | 1.79                               | 1.32                               | 2.68                              | 2.49                               | 3.01                               | 3.09                                | 2.34                                         | 1.65                                 | 2.52                                    | 1.4                                     |
| San Marcos    | 1992       | 0.67                               | 0.46                                 | 0.27                               | 2.07                               | 2.59                              | 1.31                               | 2.22                               | 1.05                                | 0.93                                         | 1.03                                 | 1.6                                     | 1.79                                    |
| San Marcos    | 1993       | 1.11                               | 1.07                                 | 2                                  | 2.59                               | 2.07                              | 2.59                               | 2.35                               | 1.74                                | 1.83                                         | 1.68                                 | 3.62                                    | 1.52                                    |
| San Marcos    | 1994       | 1.47                               | 2.05                                 | 1.77                               | 3.74                               | 4.83                              | 1.97                               | 2.23                               | 1.67                                | 1.38                                         | 2.83                                 | 2.22                                    | 1.2                                     |
| San Marcos    | 1995       | 1.15                               | 1                                    | 1.55                               | 2.42                               | 3.08                              | 2.52                               | 2.71                               | 1.99                                | 1.75                                         | 1.64                                 | 2.46                                    | 1.54                                    |
| San Marcos    | 1996       | 1.12                               | 1.14                                 | 1.34                               | 2.65                               | 3.11                              | 2.65                               | 2.65                               | 1.98                                | 1.89                                         | 1.95                                 | 2.42                                    | 1.5                                     |
| San Marcos    | 1997       | 1.1                                | 1.15                                 | 1.24                               | 2.03                               | 2.56                              | 1.99                               | 2.53                               | 1.46                                | 1.22                                         | 1.02                                 | 1.54                                    | 0.88                                    |
| San Marcos    | 1998       | 0.51                               | 0.67                                 | 0.8                                | 2.56                               | 3.38                              | 2.35                               | 2.82                               | 1.47                                | 1.14                                         | 2.29                                 | 1.86                                    | 1.84                                    |
| San Marcos    | 1999       | 2.29                               | 3.63                                 | 2.75                               | 4.29                               | 2.92                              | 3.85                               | 2.52                               | 2.75                                | 2.97                                         | 3.24                                 | 3.17                                    | 2.59                                    |
| San Marcos    | 2000       | 2.35                               | 2.78                                 | 2.26                               | 2.71                               | 3.88                              | 2.18                               | 2.55                               | 2.09                                | 3.83                                         | 3.73                                 | 2.46                                    | 1.54                                    |
| San Marcos    | 2001       | 1.03                               | 0.94                                 | 1.72                               | 1.4                                | 2.14                              | 1.89                               | 2.02                               | 1.87                                | 2.12                                         | 2.26                                 | 1.98                                    | 1.37                                    |
| San Marcos    | 2002       | 0.71                               | 0.39                                 | 1.07                               | 2.54                               | 2.09                              | 4.38                               | 2.4                                | 2.41                                | 1.86                                         | 2.59                                 | 2.03                                    | 1.11                                    |
| San Marcos    | 2003       | 0.85                               | 0.84                                 | 1.26                               | 3.5                                | 3.11                              | 2.76                               | 2.19                               | 2.01                                | 1.21                                         | 3.13                                 | 1.93                                    | 1.32                                    |
| San Marcos    | 2004       | 1.01                               | 0.72                                 | 0.74                               | 2.17                               | 2.93                              | 2.47                               | 1.86                               | 1.76                                | 1.4                                          | 2.51                                 | 2.87                                    | 1.33                                    |
| San Marcos    | 2005       | 0.92                               | 1.4                                  | 0.49                               | 1.76                               | 2.85                              | 1.91                               | 1.61                               | 1.97                                | 1.43                                         | 2.87                                 | 2.83                                    | 1.74                                    |
| San Marcos    | 2006       | 1.13                               | 0.71                                 | 1.84                               | 2.8                                | 3.11                              | 3.09                               | 1.79                               | 0.99                                | 1.17                                         | 1.66                                 | 3.11                                    | 1.8                                     |
| San Marcos    | 2007       | 0.47                               | 0.92                                 | 1.48                               | 2.5                                | 2.45                              | 3.48                               | 2.12                               | 2.68                                | 1.74                                         | 3.56                                 | 2.35                                    | 2.83                                    |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| San Marcos    | 2008       | 1.59                               | 2.67                                 | 2.32                               | 2.86                               | 5.43                              | 4.32                               | 3.96                               | 3.43                                | 1.94                                         | 2.53                                 | 3.61                                    | 2.51                                    |
| San Marcos    | 2009       | 1.84                               | 1.95                                 | 2                                  | 3.68                               | 1.91                              | 3.3                                | 1.47                               | 1.27                                | 1.02                                         | 0.92                                 | 1.12                                    | 0.55                                    |
| San Marcos    | 2010       | 0.44                               | 0.51                                 | 0.77                               | 3.43                               | 2.71                              | 2.46                               | 4.18                               | 1.24                                | 1.89                                         | 1.93                                 | 5.41                                    | 2.1                                     |
| San Marcos    | 2011       | 1.57                               | 2.28                                 | 3.6                                | 6.9                                | 4.78                              | 2.66                               | 2.16                               | 2.18                                | 2.15                                         | 1.64                                 | 7.09                                    | 5.97                                    |
| San Marcos    | 2012       | 1.61                               | 2.28                                 | 2.78                               | 2.34                               | 2.99                              | 2.27                               | 2                                  | 1.89                                | 1.5                                          | 2.45                                 | 1.92                                    | 1.29                                    |
| San Marcos    | 2013       | 0.82                               | 1.1                                  | 1.4                                | 1.24                               | 2.93                              | 1.92                               | 1.67                               | 1.77                                | 1.38                                         | 1.86                                 | 1.71                                    | 2                                       |
| San Marcos    | 2014       | 1.03                               | 0.85                                 | 1.96                               | 2.16                               | 2.63                              | 2.92                               | 2.48                               | 1.64                                | 1.84                                         | 2.34                                 | 2.29                                    | 1.61                                    |
| San Marcos    | 2015       | 0.95                               | 1.4                                  | 1.58                               | 1.94                               | 1.99                              | 2.91                               | 2.1                                | 1.34                                | 1.3                                          | 1.89                                 | 2.22                                    | 0.88                                    |
| San Marcos    | 2016       | 0.57                               | 0.56                                 | 1.01                               | 0.86                               | 2.3                               | 2.37                               | 2.88                               | 1.29                                | 1.81                                         | 2.1                                  | 2.5                                     | 1.65                                    |
| San Marcos    | 2017       | 1.48                               | 1.13                                 | 2.85                               | 2.95                               | 4.6                               | 3.1                                | 2.89                               | 2                                   | 1.83                                         | 2.18                                 | 2.5                                     | 1.44                                    |
| Cucuana       | 1972       | 4.64                               | 1.8                                  | 2.5                                | 4.66                               | 11.12                             | 4.03                               | 3.07                               | 3.87                                | 3.6                                          | 3.15                                 | 4.71                                    | 3.66                                    |
| Cucuana       | 1973       | 1.18                               | 1.01                                 | 3.75                               | 3.27                               | 6.6                               | 4.41                               | 5.19                               | 14.27                               | 7.74                                         | 3.23                                 | 6.26                                    | 6.74                                    |
| Cucuana       | 1974       | 5.44                               | 8.78                                 | 10.14                              | 6.48                               | 11.14                             | 7.61                               | 8.11                               | 6.02                                | 6.93                                         | 7.27                                 | 6.44                                    | 3.11                                    |
| Cucuana       | 1975       | 2.05                               | 4.54                                 | 4.21                               | 3.91                               | 8.5                               | 11.19                              | 9.4                                | 5.47                                | 8.18                                         | 10.25                                | 9.95                                    | 11.58                                   |
| Cucuana       | 1976       | 1.44                               | 1.92                                 | 3.9                                | 6.61                               | 11.69                             | 12.42                              | 3.83                               | 3.99                                | 3.75                                         | 7.45                                 | 5.94                                    | 3.85                                    |
| Cucuana       | 1977       | 1.82                               | 2.73                                 | 1.95                               | 5.23                               | 7.04                              | 6.99                               | 5.82                               | 5.98                                | 4.79                                         | 7.48                                 | 7.82                                    | 3.51                                    |
| Cucuana       | 1978       | 2.76                               | 2.01                                 | 5.57                               | 10.62                              | 6.09                              | 5.63                               | 6.79                               | 5.54                                | 4.41                                         | 7.08                                 | 5.68                                    | 6.46                                    |
| Cucuana       | 1979       | 2.23                               | 2.16                                 | 4.34                               | 7.64                               | 5.75                              | 7.57                               | 4.61                               | 4.64                                | 7.59                                         | 6.08                                 | 9                                       | 5.5                                     |
| Cucuana       | 1980       | 3.48                               | 3.71                                 | 1.57                               | 4.83                               | 6.06                              | 11.77                              | 4.69                               | 4.27                                | 5.02                                         | 7.27                                 | 5.11                                    | 3.92                                    |
| Cucuana       | 1981       | 1.84                               | 2.2                                  | 2.18                               | 6.21                               | 11.21                             | 6.72                               | 6.67                               | 4.01                                | 5.33                                         | 6.77                                 | 8.28                                    | 5.23                                    |
| Cucuana       | 1982       | 6.29                               | 6.15                                 | 4.09                               | 12.74                              | 11.29                             | 4.19                               | 4.46                               | 3.99                                | 2.99                                         | 4.94                                 | 4.44                                    | 5.05                                    |
| Cucuana       | 1983       | 2.24                               | 1.36                                 | 3.07                               | 7.53                               | 4.48                              | 2.53                               | 3.29                               | 3.94                                | 2.63                                         | 4.04                                 | 3.35                                    | 5.23                                    |
| Cucuana       | 1984       | 5.69                               | 4.01                                 | 2.35                               | 5.07                               | 8.5                               | 8.22                               | 9                                  | 6.71                                | 8.44                                         | 8.35                                 | 8.97                                    | 4.72                                    |

| Nombre  | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|---------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Cucuana | 1985 | 3.72                      | 1.81                        | 2.34                      | 4.37                      | 7.23                     | 6.65                      | 6.69                      | 5.3                        | 8                                  | 10.47                       | 10.33                          | 3.5                            |
| Cucuana | 1986 | 3.39                      | 7.24                        | 7.1                       | 6.1                       | 7.5                      | 9.22                      | 8.96                      | 4.27                       | 4.48                               | 10.4                        | 5.14                           | 2.72                           |
| Cucuana | 1987 | 1.44                      | 2.44                        | 2.22                      | 6.61                      | 8.88                     | 3.82                      | 6.35                      | 6.55                       | 5.18                               | 8.56                        | 6.12                           | 4.14                           |
| Cucuana | 1988 | 1.67                      | 2.05                        | 1.86                      | 5.95                      | 6.26                     | 10.43                     | 10.57                     | 7.68                       | 9.4                                | 4.69                        | 9.75                           | 4.15                           |
| Cucuana | 1989 | 2.48                      | 2.31                        | 5.4                       | 2.24                      | 9.43                     | 6.05                      | 5.88                      | 4.8                        | 5.49                               | 8.29                        | 4.9                            | 2.16                           |
| Cucuana | 1990 | 3.61                      | 3.25                        | 5.43                      | 4.83                      | 7.67                     | 7.3                       | 7.95                      | 4.7                        | 5.43                               | 7.48                        | 5.37                           | 4.62                           |
| Cucuana | 1991 | 2.17                      | 1.01                        | 4.72                      | 3.5                       | 7.09                     | 6.6                       | 7.96                      | 8.17                       | 6.19                               | 4.37                        | 6.66                           | 3.69                           |
| Cucuana | 1992 | 1.79                      | 1.21                        | 0.72                      | 5.48                      | 6.86                     | 3.45                      | 5.88                      | 2.77                       | 2.46                               | 2.72                        | 4.23                           | 4.73                           |
| Cucuana | 1993 | 2.94                      | 2.82                        | 5.3                       | 6.84                      | 5.48                     | 6.86                      | 6.22                      | 4.61                       | 4.84                               | 4.45                        | 9.58                           | 4.01                           |
| Cucuana | 1994 | 3.9                       | 5.43                        | 4.67                      | 9.89                      | 12.77                    | 5.2                       | 5.91                      | 4.41                       | 3.66                               | 7.5                         | 5.87                           | 3.17                           |
| Cucuana | 1995 | 3.05                      | 2.64                        | 4.09                      | 6.41                      | 8.14                     | 6.67                      | 7.18                      | 5.26                       | 4.64                               | 4.33                        | 6.52                           | 4.08                           |
| Cucuana | 1996 | 2.96                      | 3.01                        | 3.54                      | 7.01                      | 8.24                     | 7.01                      | 7.02                      | 5.24                       | 5.01                               | 5.16                        | 6.41                           | 3.96                           |
| Cucuana | 1997 | 2.9                       | 3.05                        | 3.27                      | 5.36                      | 6.77                     | 5.27                      | 6.69                      | 3.85                       | 3.22                               | 2.69                        | 4.06                           | 2.32                           |
| Cucuana | 1998 | 1.36                      | 1.78                        | 2.12                      | 6.77                      | 8.94                     | 6.22                      | 7.45                      | 3.89                       | 3.01                               | 6.05                        | 4.93                           | 4.86                           |
| Cucuana | 1999 | 6.05                      | 9.59                        | 7.28                      | 11.34                     | 7.73                     | 10.19                     | 6.67                      | 7.28                       | 7.85                               | 8.56                        | 8.39                           | 6.84                           |
| Cucuana | 2000 | 6.22                      | 7.35                        | 5.98                      | 7.18                      | 10.25                    | 5.78                      | 6.75                      | 5.54                       | 10.12                              | 9.86                        | 6.52                           | 4.08                           |
| Cucuana | 2001 | 2.72                      | 2.49                        | 4.54                      | 3.7                       | 5.66                     | 5                         | 5.35                      | 4.94                       | 5.61                               | 5.97                        | 5.23                           | 3.63                           |
| Cucuana | 2002 | 1.87                      | 1.04                        | 2.84                      | 6.72                      | 5.54                     | 11.59                     | 6.36                      | 6.39                       | 4.91                               | 6.86                        | 5.37                           | 2.94                           |
| Cucuana | 2003 | 2.26                      | 2.23                        | 3.34                      | 9.27                      | 8.23                     | 7.3                       | 5.8                       | 5.31                       | 3.21                               | 8.27                        | 5.1                            | 3.5                            |
| Cucuana | 2004 | 2.67                      | 1.9                         | 1.95                      | 5.73                      | 7.76                     | 6.54                      | 4.91                      | 4.65                       | 3.7                                | 6.65                        | 7.58                           | 3.51                           |
| Cucuana | 2005 | 2.44                      | 3.69                        | 1.29                      | 4.67                      | 7.55                     | 5.04                      | 4.25                      | 5.22                       | 3.79                               | 7.6                         | 7.49                           | 4.6                            |
| Cucuana | 2006 | 3                         | 1.89                        | 4.86                      | 7.42                      | 8.22                     | 8.17                      | 4.74                      | 2.61                       | 3.1                                | 4.38                        | 8.24                           | 4.75                           |
| Cucuana | 2007 | 1.24                      | 2.43                        | 3.91                      | 6.62                      | 6.47                     | 9.22                      | 5.6                       | 7.08                       | 4.6                                | 9.41                        | 6.22                           | 7.5                            |
| Cucuana | 2008 | 4.21                      | 7.05                        | 6.15                      | 7.56                      | 14.36                    | 11.43                     | 10.47                     | 9.08                       | 5.14                               | 6.7                         | 9.56                           | 6.65                           |
| Cucuana | 2009 | 4.87                      | 5.15                        | 5.29                      | 9.73                      | 5.05                     | 8.73                      | 3.89                      | 3.36                       | 2.71                               | 2.44                        | 2.95                           | 1.46                           |
| Cucuana | 2010 | 1.17                      | 1.35                        | 2.03                      | 9.08                      | 7.16                     | 6.51                      | 11.05                     | 3.29                       | 4.99                               | 5.1                         | 14.31                          | 5.54                           |
| Cucuana | 2011 | 4.16                      | 6.02                        | 9.53                      | 18.25                     | 12.66                    | 7.04                      | 5.72                      | 5.78                       | 5.68                               | 4.34                        | 18.74                          | 15.8                           |
| Cucuana | 2012 | 4.25                      | 6.03                        | 7.36                      | 6.18                      | 7.92                     | 6                         | 5.28                      | 5                          | 3.97                               | 6.47                        | 5.07                           | 3.4                            |
| Cucuana | 2013 | 2.16                      | 2.9                         | 3.7                       | 3.28                      | 7.76                     | 5.08                      | 4.43                      | 4.68                       | 3.64                               | 4.93                        | 4.51                           | 5.29                           |
| Cucuana | 2014 | 2.72                      | 2.25                        | 5.18                      | 5.72                      | 6.97                     | 7.73                      | 6.55                      | 4.34                       | 4.86                               | 6.2                         | 6.06                           | 4.25                           |

| Nombre  | Año  | Caudal Enero (m3/s) | Caudal Febrero (m3/s) | Caudal Marzo (m3/s) | Caudal Abril (m3/s) | Caudal Mayo(m3/s) | Caudal Junio (m3/s) | Caudal Julio (m3/s) | Caudal Agosto (m3/s) | Caudal Septiembre (m3/s) | Caudal Octubre (m3/s) | Caudal Noviembre (m3/s) | Caudal Diciembre (m3/s) |
|---------|------|---------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| Cucuana | 2015 | 2.51                | 3.71                  | 4.17                | 5.13                | 5.26              | 7.69                | 5.56                | 3.55                 | 3.44                     | 4.99                  | 5.88                    | 2.33                    |
| Cucuana | 2016 | 1.55                | 1.47                  | 2.68                | 2.26                | 6.07              | 6.26                | 7.61                | 3.41                 | 4.77                     | 5.54                  | 6.61                    | 4.35                    |
| Cucuana | 2017 | 3.91                | 2.98                  | 7.53                | 7.81                | 12.18             | 8.21                | 7.65                | 5.3                  | 4.85                     | 5.78                  | 6.62                    | 3.82                    |

#### Formato 5. Embalses

| Nombre         | Mínimo Técnico (Mm3) | Máximo Técnico (Mm3) |
|----------------|----------------------|----------------------|
| Alto Anchicaya | 6.72                 | 38.5                 |
| Calima         | 105.52               | 530.18               |
| Prado          | 330.02               | 750.69               |
| Salvajina      | 93.64                | 808.38               |

#### Formato 6. Filtraciones

| Nombre  | m3/s |
|---------|------|
| Cucuana | 0.28 |

#### Formato 7. Curvas de Operación Embalses

| Nombre    | Mes | Volumen Espera (Mm3) | Curva Guía Mínima (Mm3) | Curva Guía Máxima (Mm3) |
|-----------|-----|----------------------|-------------------------|-------------------------|
| Salvajina | 1   |                      | 173.88                  | 604.62                  |
| Salvajina | 2   |                      | 173.88                  | 604.62                  |
| Salvajina | 3   |                      | 173.88                  | 703.64                  |

| <b>Nombre</b>  | <b>Mes</b> | <b>Volumen Espera (Mm3)</b> | <b>Curva Guía Mínima (Mm3)</b> | <b>Curva Guía Máxima (Mm3)</b> |
|----------------|------------|-----------------------------|--------------------------------|--------------------------------|
| Salvajina      | 4          |                             | 173.88                         | 752.36                         |
| Salvajina      | 5          |                             | 191.98                         | 776.42                         |
| Salvajina      | 6          |                             | 214.74                         | 800.43                         |
| Salvajina      | 7          |                             | 237.61                         | 800.43                         |
| Salvajina      | 8          |                             | 214.74                         | 752.36                         |
| Salvajina      | 9          |                             | 191.98                         | 579.51                         |
| Salvajina      | 10         |                             | 173.88                         | 405.87                         |
| Salvajina      | 11         |                             | 173.88                         | 455.29                         |
| Salvajina      | 12         |                             | 173.88                         | 604.62                         |
| Alto Anchicaya | 1          |                             |                                |                                |
| Alto Anchicaya | 2          |                             |                                |                                |
| Alto Anchicaya | 3          |                             |                                |                                |
| Alto Anchicaya | 4          |                             |                                |                                |
| Alto Anchicaya | 5          |                             |                                |                                |
| Alto Anchicaya | 6          |                             |                                |                                |
| Alto Anchicaya | 7          |                             |                                |                                |
| Alto Anchicaya | 8          |                             |                                |                                |
| Alto Anchicaya | 9          |                             |                                |                                |
| Alto Anchicaya | 10         |                             |                                |                                |
| Alto Anchicaya | 11         |                             |                                |                                |
| Alto Anchicaya | 12         |                             |                                |                                |
| Calima         | 1          |                             |                                |                                |
| Calima         | 2          |                             |                                |                                |
| Calima         | 3          |                             |                                |                                |
| Calima         | 4          |                             |                                |                                |
| Calima         | 5          |                             |                                |                                |
| Calima         | 6          |                             |                                |                                |
| Calima         | 7          |                             |                                |                                |
| Calima         | 8          |                             |                                |                                |
| Calima         | 9          |                             |                                |                                |
| Calima         | 10         |                             |                                |                                |
| Calima         | 11         |                             |                                |                                |

| Nombre  | Mes | Volumen Espera (Mm3) | Curva Guía Mínima (Mm3) | Curva Guía Máxima (Mm3) |
|---------|-----|----------------------|-------------------------|-------------------------|
| Calima  | 12  |                      |                         |                         |
| Prado   | 1   |                      | 330.02                  |                         |
| Prado   | 2   |                      | 330.02                  |                         |
| Prado   | 3   |                      | 330.02                  |                         |
| Prado   | 4   |                      | 330.02                  |                         |
| Prado   | 5   |                      | 330.02                  |                         |
| Prado   | 6   |                      | 330.02                  |                         |
| Prado   | 7   |                      | 330.02                  |                         |
| Prado   | 8   |                      | 330.02                  |                         |
| Prado   | 9   |                      | 330.02                  |                         |
| Prado   | 10  |                      | 330.02                  |                         |
| Prado   | 11  |                      | 330.02                  |                         |
| Prado   | 12  |                      | 330.02                  |                         |
| Cucuana | 1   |                      |                         |                         |
| Cucuana | 2   |                      |                         |                         |
| Cucuana | 3   |                      |                         |                         |
| Cucuana | 4   |                      |                         |                         |
| Cucuana | 5   |                      |                         |                         |
| Cucuana | 6   |                      |                         |                         |
| Cucuana | 7   |                      |                         |                         |
| Cucuana | 8   |                      |                         |                         |
| Cucuana | 9   |                      |                         |                         |
| Cucuana | 10  |                      |                         |                         |
| Cucuana | 11  |                      |                         |                         |
| Cucuana | 12  |                      |                         |                         |

#### Formato 8. Capacidad Arcos de Descarga

| Nombre | Flujo Mínimo (m3/s) | Flujo Máximo (m3/s) | Fecha Entrada | Fecha Salida |
|--------|---------------------|---------------------|---------------|--------------|
| SM     | 0                   | 3                   | 01/01/2012    | 31/01/2150   |

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

| Nombre         | Flujo Mínimo (m3/s) | Flujo Máximo (m3/s) |
|----------------|---------------------|---------------------|
| Alto Anchicaya | 0                   | 90.89               |
| Bajo Anchicaya | 0                   | 139.07              |
| Calima         | 0                   | 71.17               |
| Prado          | 0                   | 105.88              |
| Salvajina      | 0                   | 321.63              |
| Cucuana        | 0                   | 10.19               |

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

| Nombre | Año T (m3/s) | Año T+1 (m3/s) | Año T+2 (m3/s) | Año T+3 (m3/s) | Año T+4 (m3/s) | Año T+5 (m3/s) | Factor Recuperación |
|--------|--------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| PRADO  | 8.67         | 8.67           | 8.67           | 8.67           | 8.67           | 8.67           | 0                   |

**Formato 14. Suministro Gas Natural**

| Nombre                        | Campo                                   | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|-------------------------------|-----------------------------------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| TERMO<br>MERIL<br>ECTRIC<br>A | GUAJIRA,<br>GIBRALTAR<br>Y/O<br>CUSIANA | 8760            | 1104499                  | 1104499              | 997612                 | 1104499              | 1068870              | 1104499             | 1068870              | 1104499              | 1104499               | 1068870                   | 1104499                | 1068870                  |

#### Formato 15. Transporte Gas Natural

| Nombre                        | Punto Entrada                           | Punto Salida        | Transporte Diciembre (MBTU) | Transporte Enero (MBTU) | Transporte Febrero (MBTU) | Transporte Marzo (MBTU) | Transporte Abril (MBTU) | Transporte Mayo (MBTU) | Transporte Junio (MBTU) | Transporte Julio (MBTU) | Transporte Agosto (MBTU) | Transporte Septiembre (MBTU) | Transporte Octubre (MBTU) | Transporte Noviembre (MBTU) |
|-------------------------------|-----------------------------------------|---------------------|-----------------------------|-------------------------|---------------------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|--------------------------|------------------------------|---------------------------|-----------------------------|
| TERMO<br>MERIL<br>ECTRIC<br>A | BALLENA,<br>GIBRALTAR<br>Y/O<br>CUSIANA | BARRANCABE<br>RMEJA | 1104499                     | 1104499                 | 997612                    | 1104499                 | 1068870                 | 1104499                | 1068870                 | 1104499                 | 1104499                  | 1068870                      | 1104499                   | 1068870                     |

#### Formato 16. Suministro Combustible Diferente a Gas

#### Formato 17. Almacenamiento Combustible

Formato No Registrado

#### Formato 18. Energía Contratada

Formato No Registrado

**Formato 19. Plantas Menores**

| Nombre                   | Capacidad Efectiva Neta (MW) | Disponibilidad (%) |
|--------------------------|------------------------------|--------------------|
| Nima                     | 6.7                          | 9.388              |
| Rio Cali                 | 1.8                          | 32.8748            |
| Amaime                   | 18.87                        | 5.3032             |
| Prado4                   | 5                            | 39.5439            |
| Alto Tulua               | 19.9                         | 5.8398             |
| Bajo Tulua               | 19.9                         | 5.3859             |
| Mayaguez                 | 19.9                         | 0                  |
| Carmelita                | 0                            | 0                  |
| AUTOG CELSIA SOLAR YUMBO | 9.8                          | 0                  |
| COGENERADOR MANUELITA 2  | 11.59                        | 0                  |
| EL COCUYO                | 0.7                          | 0                  |
| RIO PIEDRAS              | 19.9                         | 19.3935            |
| HIDROMONTAÑITAS          | 19.9                         | 41.3853            |
| AUTOG ARGOS YUMBO        | 9.9                          | 0                  |
| AUTOG ARGOS TOLUVIEJO    | 3.7                          | 0                  |
| AUTOG ARGOS CARTAGENA    | 9.9                          | 0                  |
| TEQUENDAMA BIOGAS        | 2.25                         | 0                  |
| CELSIA SOLAR BOLIVAR     | 8.06                         | 0                  |

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

### **Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

### **Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

### **Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

### **Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente EMPRESA DE ENERGIA DEL PACIFICO S.A. E.S.P.**

EMPRESA URRÁ S.A. E.S.P.

Formato 1. Plantas o Unidades Hidráulicas

| Nombre | Capacidad Efectiva Neta (MW) | Eficiencia (MW/m3/s) | IHF (%) |
|--------|------------------------------|----------------------|---------|
| URRA   | 338                          | 0.4657               | 43.0872 |

Formato 2. Topología Plantas Hidráulicas

| Nombre | Elemento Clase | Elemento Nombre | Aportes Río | Aportes Embalse | Aportes Planta | Aportes Otro | Descarga Río | Descarga Embalse | Descargas Planta | Descarga Otro | Vertimientos Río | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|--------|----------------|-----------------|-------------|-----------------|----------------|--------------|--------------|------------------|------------------|---------------|------------------|----------------------|---------------------|------------------|
| URRA   | E              | URRA            | SINU        |                 |                |              |              |                  | URRA             |               | SINU             |                      |                     |                  |
| URRA   | P              | URRA            |             | URRA            |                |              | SINU         |                  |                  |               |                  |                      |                     |                  |

Formato 3. Plantas o Unidades Térmicas

Formato No Registrado

Formato 4. Caudal Medio Mensual

| Nombre | Año  | Caudal Enero (m3/s) | Caudal Febrero (m3/s) | Caudal Marzo (m3/s) | Caudal Abril (m3/s) | Caudal Mayo(m3/s) | Caudal Junio (m3/s) | Caudal Julio (m3/s) | Caudal Agosto (m3/s) | Caudal Septiembre (m3/s) | Caudal Octubre (m3/s) | Caudal Noviembre (m3/s) | Caudal Diciembre (m3/s) |
|--------|------|---------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| SINU   | 1960 | 312                 | 212                   | 168                 | 345                 | 511               | 507                 | 526                 | 485                  | 508                      | 552                   | 367                     | 334                     |
| SINU   | 1961 | 255                 | 139                   | 129                 | 209                 | 400               | 542                 | 634                 | 558                  | 487                      | 480                   | 459                     | 393                     |
| SINU   | 1962 | 243                 | 172                   | 188                 | 258                 | 606               | 567                 | 626                 | 625                  | 570                      | 549                   | 491                     | 360                     |
| SINU   | 1963 | 430                 | 257                   | 216                 | 401                 | 631               | 823                 | 650                 | 404                  | 368                      | 260                   | 264                     | 225                     |
| SINU   | 1964 | 128                 | 116                   | 135                 | 213                 | 194               | 363                 | 394                 | 390                  | 286                      | 350                   | 313                     | 188                     |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| SINU   | 1965 | 178                       | 143                         | 128                       | 161                       | 233                      | 212                       | 175                       | 250                        | 365                                | 375                         | 290                            | 205                            |
| SINU   | 1966 | 295                       | 141                         | 76                        | 157                       | 402                      | 512                       | 597                       | 547                        | 554                                | 525                         | 419                            | 346                            |
| SINU   | 1967 | 108                       | 109                         | 79                        | 137                       | 341                      | 586                       | 639                       | 558                        | 426                                | 364                         | 335                            | 341                            |
| SINU   | 1968 | 237                       | 140                         | 149                       | 201                       | 458                      | 552                       | 635                       | 546                        | 493                                | 610                         | 433                            | 219                            |
| SINU   | 1969 | 138                       | 115                         | 134                       | 162                       | 251                      | 499                       | 454                       | 537                        | 468                                | 379                         | 337                            | 351                            |
| SINU   | 1970 | 301                       | 197                         | 105                       | 330                       | 562                      | 632                       | 527                       | 495                        | 556                                | 520                         | 454                            | 502                            |
| SINU   | 1971 | 385                       | 207                         | 363                       | 262                       | 508                      | 489                       | 599                       | 508                        | 483                                | 524                         | 453                            | 203                            |
| SINU   | 1972 | 234                       | 119                         | 99                        | 211                       | 538                      | 497                       | 372                       | 421                        | 493                                | 494                         | 384                            | 223                            |
| SINU   | 1973 | 103                       | 59                          | 116                       | 91                        | 229                      | 367                       | 513                       | 453                        | 432                                | 450                         | 670                            | 327                            |
| SINU   | 1974 | 241                       | 116                         | 109                       | 257                       | 523                      | 487                       | 369                       | 427                        | 454                                | 587                         | 568                            | 186                            |
| SINU   | 1975 | 85                        | 65                          | 69                        | 68                        | 236                      | 396                       | 618                       | 623                        | 533                                | 622                         | 602                            | 446                            |
| SINU   | 1976 | 142                       | 127                         | 96                        | 150                       | 335                      | 585                       | 493                       | 348                        | 350                                | 451                         | 399                            | 149                            |
| SINU   | 1977 | 96                        | 66                          | 82                        | 144                       | 391                      | 520                       | 494                       | 519                        | 390                                | 542                         | 483                            | 298                            |
| SINU   | 1978 | 109                       | 116                         | 149                       | 387                       | 518                      | 633                       | 393                       | 478                        | 397                                | 530                         | 461                            | 301                            |
| SINU   | 1979 | 101                       | 73                          | 76                        | 160                       | 373                      | 516                       | 439                       | 421                        | 485                                | 459                         | 358                            | 266                            |
| SINU   | 1980 | 164                       | 138                         | 63                        | 80                        | 258                      | 347                       | 439                       | 418                        | 354                                | 561                         | 373                            | 348                            |
| SINU   | 1981 | 202                       | 253                         | 405                       | 375                       | 557                      | 665                       | 486                       | 450                        | 518                                | 448                         | 428                            | 290                            |
| SINU   | 1982 | 166                       | 226                         | 115                       | 266                       | 520                      | 422                       | 509                       | 392                        | 468                                | 449                         | 334                            | 156                            |
| SINU   | 1983 | 123                       | 74                          | 97                        | 230                       | 388                      | 495                       | 433                       | 419                        | 460                                | 483                         | 456                            | 310                            |
| SINU   | 1984 | 205                       | 169                         | 142                       | 126                       | 295                      | 403                       | 534                       | 537                        | 488                                | 502                         | 488                            | 285                            |
| SINU   | 1985 | 106                       | 80                          | 80                        | 115                       | 184                      | 388                       | 376                       | 445                        | 472                                | 523                         | 402                            | 238                            |
| SINU   | 1986 | 136                       | 146                         | 89                        | 491                       | 381                      | 455                       | 520                       | 225                        | 296                                | 379                         | 328                            | 201                            |
| SINU   | 1987 | 114                       | 142                         | 71                        | 412                       | 562                      | 310                       | 577                       | 593                        | 379                                | 583                         | 401                            | 314                            |
| SINU   | 1988 | 107                       | 78                          | 53                        | 239                       | 366                      | 380                       | 613                       | 812                        | 390                                | 605                         | 429                            | 295                            |
| SINU   | 1989 | 229                       | 120                         | 174                       | 162                       | 436                      | 493                       | 497                       | 449                        | 397                                | 371                         | 322                            | 252                            |
| SINU   | 1990 | 146                       | 93                          | 99                        | 171                       | 538                      | 377                       | 381                       | 424                        | 322                                | 388                         | 481                            | 239                            |
| SINU   | 1991 | 103                       | 92                          | 112                       | 100                       | 305                      | 472                       | 396                       | 365                        | 390                                | 466                         | 335                            | 224                            |
| SINU   | 1992 | 105                       | 57                          | 56                        | 87                        | 329                      | 302                       | 369                       | 411                        | 414                                | 412                         | 334                            | 287                            |
| SINU   | 1993 | 161                       | 116                         | 121                       | 270                       | 516                      | 417                       | 470                       | 282                        | 330                                | 364                         | 404                            | 334                            |
| SINU   | 1994 | 123                       | 71                          | 92                        | 224                       | 472                      | 331                       | 404                       | 435                        | 431                                | 382                         | 487                            | 246                            |

| Nombre | Año  | Caudal Enero (m3/s) | Caudal Febrero (m3/s) | Caudal Marzo (m3/s) | Caudal Abril (m3/s) | Caudal Mayo(m3/s) | Caudal Junio (m3/s) | Caudal Julio (m3/s) | Caudal Agosto (m3/s) | Caudal Septiembre (m3/s) | Caudal Octubre (m3/s) | Caudal Noviembre (m3/s) | Caudal Diciembre (m3/s) |
|--------|------|---------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| SINU   | 1995 | 98                  | 59                    | 57                  | 167                 | 366               | 516                 | 546                 | 410                  | 432                      | 440                   | 362                     | 367                     |
| SINU   | 1996 | 258                 | 196                   | 319                 | 288                 | 516               | 533                 | 637                 | 438                  | 492                      | 410                   | 323                     | 191                     |
| SINU   | 1997 | 113                 | 215                   | 105                 | 151                 | 320               | 389                 | 400                 | 337                  | 300                      | 368                   | 355                     | 192                     |
| SINU   | 1998 | 78                  | 132                   | 85                  | 170                 | 348               | 508                 | 585                 | 425                  | 392                      | 412                   | 442                     | 349                     |
| SINU   | 1999 | 185                 | 267                   | 237                 | 469                 | 516               | 472                 | 488                 | 547                  | 505                      | 530                   | 352                     | 389                     |
| SINU   | 2000 | 166                 | 209                   | 204                 | 241                 | 484               | 502                 | 539                 | 460                  | 475                      | 450                   | 319                     | 343                     |
| SINU   | 2001 | 187.61              | 72.25                 | 162.63              | 157.39              | 469.74            | 457.95              | 376.94              | 338.7                | 357.39                   | 447.84                | 505.2                   | 342.01                  |
| SINU   | 2002 | 135.27              | 87.67                 | 89.22               | 409.39              | 428.77            | 552.15              | 500.04              | 362.87               | 386.85                   | 386.69                | 339.68                  | 216.45                  |
| SINU   | 2003 | 106.57              | 64.55                 | 51.91               | 230.22              | 498.77            | 464.39              | 600.34              | 384.43               | 532.83                   | 475.63                | 460.95                  | 369.39                  |
| SINU   | 2004 | 116.79              | 56.99                 | 77.33               | 220.4               | 341.42            | 518.76              | 378.24              | 415.53               | 353.54                   | 309.57                | 381.7                   | 239.25                  |
| SINU   | 2005 | 174.11              | 161.56                | 104.48              | 259.14              | 398.01            | 513.94              | 418.88              | 402.7                | 428.39                   | 496.91                | 416.83                  | 235.87                  |
| SINU   | 2006 | 128.36              | 135.16                | 213.69              | 304.66              | 563.7             | 439.31              | 474.25              | 375.77               | 419.64                   | 303.46                | 346.35                  | 329.15                  |
| SINU   | 2007 | 147.02              | 61.03                 | 128.15              | 438.8               | 586.3             | 655.91              | 601.03              | 521.75               | 465.93                   | 424.15                | 409.02                  | 210.55                  |
| SINU   | 2008 | 104.09              | 103.01                | 94.57               | 242.78              | 517.27            | 551.89              | 578.12              | 400.18               | 450.01                   | 558.43                | 357                     | 218.18                  |
| SINU   | 2009 | 229.63              | 143.64                | 295.71              | 302.14              | 461.56            | 475.91              | 527.57              | 387.26               | 260.76                   | 288.08                | 477.44                  | 208.6                   |
| SINU   | 2010 | 73.04               | 49.41                 | 182.4               | 298.98              | 378.83            | 461.67              | 403.65              | 571.65               | 549.33                   | 362.65                | 429.78                  | 589.39                  |
| SINU   | 2011 | 256.45              | 102.25                | 170.82              | 446.09              | 398.6             | 422.02              | 433.87              | 389.14               | 425.87                   | 335.23                | 385.12                  | 392.84                  |
| SINU   | 2012 | 184.43              | 79.99                 | 129.56              | 462.87              | 466.44            | 369.25              | 408.11              | 368.14               | 378.96                   | 382.2                 | 310.44                  | 193.62                  |
| SINU   | 2013 | 68.37               | 56.75                 | 433.47              | 297.93              | 427.84            | 389.72              | 359.69              | 512.73               | 549.56                   | 401.43                | 325.51                  | 264.73                  |
| SINU   | 2014 | 128.84              | 63.1                  | 97.08               | 149.17              | 331.79            | 468.88              | 324.06              | 366.64               | 449.04                   | 401.42                | 364.92                  | 260.72                  |
| SINU   | 2015 | 113.41              | 144.43                | 71.31               | 198.63              | 331.76            | 438.43              | 360.13              | 345.63               | 313.14                   | 408.04                | 409.73                  | 269.56                  |
| SINU   | 2016 | 116.82              | 78.99                 | 50.55               | 176.37              | 430.48            | 533.96              | 539.61              | 393.47               | 304.37                   | 374.22                | 486.58                  | 429.03                  |
| SINU   | 2017 | 164.95              | 78.37                 | 172.84              | 215.45              | 468.38            | 634.77              | 624.89              | 466.69               | 574.63                   | 487.23                | 342.6                   | 311.7                   |

#### Formato 5. Embalses

| Nombre | Mínimo Técnico (Mm3) | Máximo Técnico (Mm3) |
|--------|----------------------|----------------------|
| URRA   | 356.21               | 1594.12              |

**Formato 6. Filtraciones**

| Nombre | m3/s |
|--------|------|
| URRA   | 0    |

**Formato 7. Curvas de Operación Embalses**

| Nombre | Mes | Volumen Espera (Mm3) | Curva Guía Mínima (Mm3) | Curva Guía Máxima (Mm3) |
|--------|-----|----------------------|-------------------------|-------------------------|
| URRA   | 1   |                      | 404.79                  | 1570.37                 |
| URRA   | 2   |                      | 404.79                  | 1532.18                 |
| URRA   | 3   |                      | 404.79                  | 1570.37                 |
| URRA   | 4   |                      | 404.79                  | 1399.19                 |
| URRA   | 5   |                      | 404.79                  | 1432                    |
| URRA   | 6   |                      | 404.79                  | 1432                    |
| URRA   | 7   |                      | 404.79                  | 1270.25                 |
| URRA   | 8   |                      | 404.79                  | 1334.17                 |
| URRA   | 9   |                      | 404.79                  | 1399.19                 |
| URRA   | 10  |                      | 404.79                  | 1532.18                 |
| URRA   | 11  |                      | 404.79                  | 1532.18                 |
| URRA   | 12  |                      | 404.79                  | 1570.37                 |

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

| Nombre | Flujo Mínimo (m3/s) | Flujo Máximo (m3/s) |
|--------|---------------------|---------------------|
| URRA   | 0                   | 700                 |

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

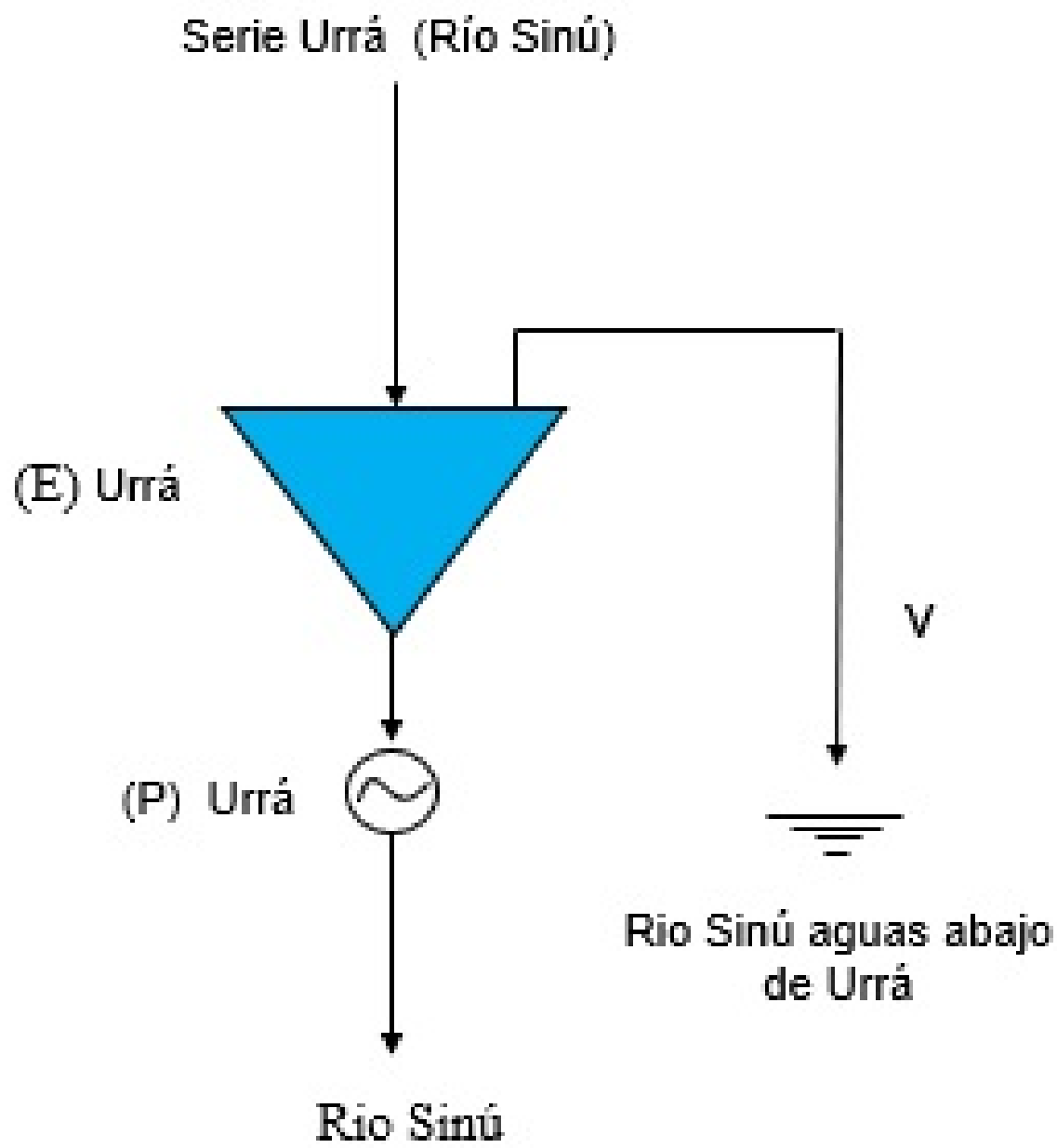
**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente EMPRESA URRÁ S.A. E.S.P.**



## **ENEL GREEN POWER SAS ESP**

### **Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

### **Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

### **Formato 3. Plantas o Unidades Térmicas**

Formato No Registrado

### **Formato 4. Caudal Medio Mensual**

Formato No Registrado

### **Formato 5. Embalses**

Formato No Registrado

### **Formato 6. Filtraciones**

Formato No Registrado

### **Formato 7. Curvas de Operación Embalses**

Formato No Registrado

### **Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

### **Formato 9. Arco de Bombeo**

Formato No Registrado

### **Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

| Nombre    | CEN    | IHF | FUNCONVERSION |
|-----------|--------|-----|---------------|
| Windpeshi | 195.03 | 10  |               |
| Tumawind  | 197.77 | 10  |               |

| Nombre   | CEN   | IHF | FUNCONVERSION |
|----------|-------|-----|---------------|
| Chemesky | 98.85 | 10  |               |

#### Formato 21. Serie Histórica de Velocidad de Viento

| Nombre    | ANOS | MES | VELOCIDAD |
|-----------|------|-----|-----------|
| Windpeshi | 2007 | 1   | 11.75     |
| Windpeshi | 2007 | 2   | 11.16     |
| Windpeshi | 2007 | 3   | 10.27     |
| Windpeshi | 2007 | 4   | 9.46      |
| Windpeshi | 2007 | 5   | 8.75      |
| Windpeshi | 2007 | 6   | 11.86     |
| Windpeshi | 2007 | 7   | 11.96     |
| Windpeshi | 2007 | 8   | 8.21      |
| Windpeshi | 2007 | 9   | 7.99      |
| Windpeshi | 2007 | 10  | 5.58      |
| Windpeshi | 2007 | 11  | 8.49      |
| Windpeshi | 2007 | 12  | 9.12      |
| Windpeshi | 2008 | 1   | 10.3      |
| Windpeshi | 2008 | 2   | 11.18     |
| Windpeshi | 2008 | 3   | 10.85     |
| Windpeshi | 2008 | 4   | 10.79     |
| Windpeshi | 2008 | 5   | 10.75     |
| Windpeshi | 2008 | 6   | 12.08     |
| Windpeshi | 2008 | 7   | 11.26     |
| Windpeshi | 2008 | 8   | 7.71      |
| Windpeshi | 2008 | 9   | 6.03      |
| Windpeshi | 2008 | 10  | 6.64      |
| Windpeshi | 2008 | 11  | 6.48      |
| Windpeshi | 2008 | 12  | 8.4       |
| Windpeshi | 2009 | 1   | 10.43     |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| Windpeshi     | 2009        | 2          | 11.01            |
| Windpeshi     | 2009        | 3          | 10.39            |
| Windpeshi     | 2009        | 4          | 11.2             |
| Windpeshi     | 2009        | 5          | 10.32            |
| Windpeshi     | 2009        | 6          | 10.37            |
| Windpeshi     | 2009        | 7          | 12.34            |
| Windpeshi     | 2009        | 8          | 10.92            |
| Windpeshi     | 2009        | 9          | 9.2              |
| Windpeshi     | 2009        | 10         | 8.84             |
| Windpeshi     | 2009        | 11         | 7.39             |
| Windpeshi     | 2009        | 12         | 10.14            |
| Windpeshi     | 2010        | 1          | 11.21            |
| Windpeshi     | 2010        | 2          | 9.28             |
| Windpeshi     | 2010        | 3          | 9.09             |
| Windpeshi     | 2010        | 4          | 8.74             |
| Windpeshi     | 2010        | 5          | 9.17             |
| Windpeshi     | 2010        | 6          | 8.25             |
| Windpeshi     | 2010        | 7          | 8.71             |
| Windpeshi     | 2010        | 8          | 6.56             |
| Windpeshi     | 2010        | 9          | 5.09             |
| Windpeshi     | 2010        | 10         | 5.69             |
| Windpeshi     | 2010        | 11         | 6.21             |
| Windpeshi     | 2010        | 12         | 7.21             |
| Windpeshi     | 2011        | 1          | 10.01            |
| Windpeshi     | 2011        | 2          | 10.82            |
| Windpeshi     | 2011        | 3          | 9.55             |
| Windpeshi     | 2011        | 4          | 9.23             |
| Windpeshi     | 2011        | 5          | 7.53             |
| Windpeshi     | 2011        | 6          | 9.57             |
| Windpeshi     | 2011        | 7          | 9.78             |
| Windpeshi     | 2011        | 8          | 7.39             |
| Windpeshi     | 2011        | 9          | 6.42             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| Windpeshi     | 2011        | 10         | 5.8              |
| Windpeshi     | 2011        | 11         | 5.66             |
| Windpeshi     | 2011        | 12         | 9.13             |
| Windpeshi     | 2012        | 1          | 10.49            |
| Windpeshi     | 2012        | 2          | 10.86            |
| Windpeshi     | 2012        | 3          | 11.89            |
| Windpeshi     | 2012        | 4          | 9.04             |
| Windpeshi     | 2012        | 5          | 10.03            |
| Windpeshi     | 2012        | 6          | 11.17            |
| Windpeshi     | 2012        | 7          | 11.74            |
| Windpeshi     | 2012        | 8          | 9.15             |
| Windpeshi     | 2012        | 9          | 7.8              |
| Windpeshi     | 2012        | 10         | 5.58             |
| Windpeshi     | 2012        | 11         | 6.99             |
| Windpeshi     | 2012        | 12         | 9.09             |
| Windpeshi     | 2013        | 1          | 11.6             |
| Windpeshi     | 2013        | 2          | 11               |
| Windpeshi     | 2013        | 3          | 10.25            |
| Windpeshi     | 2013        | 4          | 10.95            |
| Windpeshi     | 2013        | 5          | 10.14            |
| Windpeshi     | 2013        | 6          | 12.31            |
| Windpeshi     | 2013        | 7          | 12.12            |
| Windpeshi     | 2013        | 8          | 9.42             |
| Windpeshi     | 2013        | 9          | 6.36             |
| Windpeshi     | 2013        | 10         | 7.4              |
| Windpeshi     | 2013        | 11         | 7.71             |
| Windpeshi     | 2013        | 12         | 10.61            |
| Windpeshi     | 2014        | 1          | 12.5             |
| Windpeshi     | 2014        | 2          | 11.71            |
| Windpeshi     | 2014        | 3          | 10.77            |
| Windpeshi     | 2014        | 4          | 12.37            |
| Windpeshi     | 2014        | 5          | 11.22            |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| Windpeshi     | 2014        | 6          | 13.54            |
| Windpeshi     | 2014        | 7          | 13.58            |
| Windpeshi     | 2014        | 8          | 10.1             |
| Windpeshi     | 2014        | 9          | 9.11             |
| Windpeshi     | 2014        | 10         | 7.52             |
| Windpeshi     | 2014        | 11         | 8.15             |
| Windpeshi     | 2014        | 12         | 10.04            |
| Windpeshi     | 2015        | 1          | 11.37            |
| Windpeshi     | 2015        | 2          | 10.46            |
| Windpeshi     | 2015        | 3          | 11.36            |
| Windpeshi     | 2015        | 4          | 11.6             |
| Windpeshi     | 2015        | 5          | 12.88            |
| Windpeshi     | 2015        | 6          | 13.95            |
| Windpeshi     | 2015        | 7          | 13.71            |
| Windpeshi     | 2015        | 8          | 11.68            |
| Windpeshi     | 2015        | 9          | 9.34             |
| Windpeshi     | 2015        | 10         | 7.7              |
| Windpeshi     | 2015        | 11         | 9.59             |
| Windpeshi     | 2015        | 12         | 13.27            |
| Windpeshi     | 2016        | 1          | 10.17            |
| Windpeshi     | 2016        | 2          | 11.41            |
| Windpeshi     | 2016        | 3          | 11.11            |
| Windpeshi     | 2016        | 4          | 8.41             |
| Windpeshi     | 2016        | 5          | 9.25             |
| Windpeshi     | 2016        | 6          | 11.96            |
| Windpeshi     | 2016        | 7          | 12.22            |
| Windpeshi     | 2016        | 8          | 10.28            |
| Windpeshi     | 2016        | 9          | 8.39             |
| Windpeshi     | 2016        | 10         | 5.08             |
| Windpeshi     | 2016        | 11         | 4.68             |
| Windpeshi     | 2016        | 12         | 10.02            |
| Windpeshi     | 2017        | 1          | 9.63             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| Windpeshi     | 2017        | 2          | 10.06            |
| Windpeshi     | 2017        | 3          | 9.81             |
| Windpeshi     | 2017        | 4          | 10.35            |
| Windpeshi     | 2017        | 5          | 10.1             |
| Windpeshi     | 2017        | 6          | 11.45            |
| Windpeshi     | 2017        | 7          | 11.34            |
| Windpeshi     | 2017        | 8          | 9.05             |
| Windpeshi     | 2017        | 9          | 6.01             |
| Windpeshi     | 2017        | 10         | 6.92             |
| Windpeshi     | 2017        | 11         | 6.96             |
| Windpeshi     | 2017        | 12         | 9.71             |
| Windpeshi     | 2018        | 1          | 11.03            |
| Windpeshi     | 2018        | 2          | 11.45            |
| Windpeshi     | 2018        | 3          | 10.79            |
| Windpeshi     | 2018        | 4          | 10.68            |
| Windpeshi     | 2018        | 5          | 11.49            |
| Windpeshi     | 2018        | 6          | 12.53            |
| Windpeshi     | 2018        | 7          | 12.93            |
| Windpeshi     | 2018        | 8          | 12.03            |
| Tumawind      | 2008        | 1          | 8.32             |
| Tumawind      | 2008        | 2          | 9.67             |
| Tumawind      | 2008        | 3          | 9.18             |
| Tumawind      | 2008        | 4          | 8.64             |
| Tumawind      | 2008        | 5          | 8.8              |
| Tumawind      | 2008        | 6          | 10.19            |
| Tumawind      | 2008        | 7          | 9.46             |
| Tumawind      | 2008        | 8          | 6.52             |
| Tumawind      | 2008        | 9          | 5.3              |
| Tumawind      | 2008        | 10         | 5.62             |
| Tumawind      | 2008        | 11         | 5.03             |
| Tumawind      | 2008        | 12         | 6.53             |
| Tumawind      | 2009        | 1          | 8.26             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| Tumawind      | 2009        | 2          | 8.76             |
| Tumawind      | 2009        | 3          | 8.39             |
| Tumawind      | 2009        | 4          | 9.6              |
| Tumawind      | 2009        | 5          | 8.65             |
| Tumawind      | 2009        | 6          | 8.92             |
| Tumawind      | 2009        | 7          | 10.99            |
| Tumawind      | 2009        | 8          | 9.31             |
| Tumawind      | 2009        | 9          | 8.37             |
| Tumawind      | 2009        | 10         | 7.71             |
| Tumawind      | 2009        | 11         | 6.19             |
| Tumawind      | 2009        | 12         | 8.45             |
| Tumawind      | 2010        | 1          | 9.53             |
| Tumawind      | 2010        | 2          | 8.03             |
| Tumawind      | 2010        | 3          | 8                |
| Tumawind      | 2010        | 4          | 7.4              |
| Tumawind      | 2010        | 5          | 7.92             |
| Tumawind      | 2010        | 6          | 7.49             |
| Tumawind      | 2010        | 7          | 7.49             |
| Tumawind      | 2010        | 8          | 5.88             |
| Tumawind      | 2010        | 9          | 4.03             |
| Tumawind      | 2010        | 10         | 4.72             |
| Tumawind      | 2010        | 11         | 4.59             |
| Tumawind      | 2010        | 12         | 5.18             |
| Tumawind      | 2011        | 1          | 8.33             |
| Tumawind      | 2011        | 2          | 8.74             |
| Tumawind      | 2011        | 3          | 7.47             |
| Tumawind      | 2011        | 4          | 7.45             |
| Tumawind      | 2011        | 5          | 6.1              |
| Tumawind      | 2011        | 6          | 8.5              |
| Tumawind      | 2011        | 7          | 8.77             |
| Tumawind      | 2011        | 8          | 6.89             |
| Tumawind      | 2011        | 9          | 5.55             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| Tumawind      | 2011        | 10         | 4.71             |
| Tumawind      | 2011        | 11         | 4.6              |
| Tumawind      | 2011        | 12         | 7.15             |
| Tumawind      | 2012        | 1          | 8.9              |
| Tumawind      | 2012        | 2          | 9.16             |
| Tumawind      | 2012        | 3          | 10.02            |
| Tumawind      | 2012        | 4          | 6.97             |
| Tumawind      | 2012        | 5          | 8.71             |
| Tumawind      | 2012        | 6          | 10.2             |
| Tumawind      | 2012        | 7          | 10.52            |
| Tumawind      | 2012        | 8          | 8.07             |
| Tumawind      | 2012        | 9          | 7.61             |
| Tumawind      | 2012        | 10         | 4.49             |
| Tumawind      | 2012        | 11         | 6                |
| Tumawind      | 2012        | 12         | 7.47             |
| Tumawind      | 2013        | 1          | 9.98             |
| Tumawind      | 2013        | 2          | 9.49             |
| Tumawind      | 2013        | 3          | 8.85             |
| Tumawind      | 2013        | 4          | 9.33             |
| Tumawind      | 2013        | 5          | 8.83             |
| Tumawind      | 2013        | 6          | 10.98            |
| Tumawind      | 2013        | 7          | 10.66            |
| Tumawind      | 2013        | 8          | 8.37             |
| Tumawind      | 2013        | 9          | 5.7              |
| Tumawind      | 2013        | 10         | 6.8              |
| Tumawind      | 2013        | 11         | 6.25             |
| Tumawind      | 2013        | 12         | 8.73             |
| Tumawind      | 2014        | 1          | 10.91            |
| Tumawind      | 2014        | 2          | 10.18            |
| Tumawind      | 2014        | 3          | 9.26             |
| Tumawind      | 2014        | 4          | 10.7             |
| Tumawind      | 2014        | 5          | 9.88             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| Tumawind      | 2014        | 6          | 11.91            |
| Tumawind      | 2014        | 7          | 12.13            |
| Tumawind      | 2014        | 8          | 8.7              |
| Tumawind      | 2014        | 9          | 8.36             |
| Tumawind      | 2014        | 10         | 6.72             |
| Tumawind      | 2014        | 11         | 6.79             |
| Tumawind      | 2014        | 12         | 8.22             |
| Tumawind      | 2015        | 1          | 9.92             |
| Tumawind      | 2015        | 2          | 8.95             |
| Tumawind      | 2015        | 3          | 9.61             |
| Tumawind      | 2015        | 4          | 10.04            |
| Tumawind      | 2015        | 5          | 11.4             |
| Tumawind      | 2015        | 6          | 12.25            |
| Tumawind      | 2015        | 7          | 11.99            |
| Tumawind      | 2015        | 8          | 10.3             |
| Tumawind      | 2015        | 9          | 8.56             |
| Tumawind      | 2015        | 10         | 6.99             |
| Tumawind      | 2015        | 11         | 8.42             |
| Tumawind      | 2015        | 12         | 11.65            |
| Tumawind      | 2016        | 1          | 8.65             |
| Tumawind      | 2016        | 2          | 10.05            |
| Tumawind      | 2016        | 3          | 9.41             |
| Tumawind      | 2016        | 4          | 7.28             |
| Tumawind      | 2016        | 5          | 8.29             |
| Tumawind      | 2016        | 6          | 10.74            |
| Tumawind      | 2016        | 7          | 10.81            |
| Tumawind      | 2016        | 8          | 9.41             |
| Tumawind      | 2016        | 9          | 7.72             |
| Tumawind      | 2016        | 10         | 4.24             |
| Tumawind      | 2016        | 11         | 3.78             |
| Tumawind      | 2016        | 12         | 8.42             |
| Tumawind      | 2017        | 1          | 7.98             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| Tumawind      | 2017        | 2          | 8.49             |
| Tumawind      | 2017        | 3          | 8.17             |
| Tumawind      | 2017        | 4          | 8.85             |
| Tumawind      | 2017        | 5          | 9.19             |
| Tumawind      | 2017        | 6          | 10.34            |
| Tumawind      | 2017        | 7          | 10.32            |
| Tumawind      | 2017        | 8          | 8.42             |
| Tumawind      | 2017        | 9          | 5.42             |
| Tumawind      | 2017        | 10         | 6.5              |
| Tumawind      | 2017        | 11         | 6.21             |
| Tumawind      | 2017        | 12         | 8.36             |
| Tumawind      | 2018        | 1          | 9.77             |
| Tumawind      | 2018        | 2          | 9.87             |
| Tumawind      | 2018        | 3          | 9.27             |
| Tumawind      | 2018        | 4          | 9.27             |
| Tumawind      | 2018        | 5          | 10.33            |
| Tumawind      | 2018        | 6          | 10.94            |
| Tumawind      | 2018        | 7          | 11.32            |
| Chemesky      | 2008        | 1          | 8.31             |
| Chemesky      | 2008        | 2          | 8.7              |
| Chemesky      | 2008        | 3          | 8.32             |
| Chemesky      | 2008        | 4          | 8.3              |
| Chemesky      | 2008        | 5          | 8.2              |
| Chemesky      | 2008        | 6          | 8.87             |
| Chemesky      | 2008        | 7          | 8.6              |
| Chemesky      | 2008        | 8          | 6.61             |
| Chemesky      | 2008        | 9          | 5.58             |
| Chemesky      | 2008        | 10         | 5.88             |
| Chemesky      | 2008        | 11         | 5.81             |
| Chemesky      | 2008        | 12         | 7.43             |
| Chemesky      | 2009        | 1          | 7.99             |
| Chemesky      | 2009        | 2          | 8.48             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| Chemesky      | 2009        | 3          | 8.56             |
| Chemesky      | 2009        | 4          | 8.66             |
| Chemesky      | 2009        | 5          | 7.83             |
| Chemesky      | 2009        | 6          | 7.78             |
| Chemesky      | 2009        | 7          | 9.57             |
| Chemesky      | 2009        | 8          | 8.56             |
| Chemesky      | 2009        | 9          | 7.63             |
| Chemesky      | 2009        | 10         | 7.31             |
| Chemesky      | 2009        | 11         | 6.45             |
| Chemesky      | 2009        | 12         | 7.62             |
| Chemesky      | 2010        | 1          | 8.73             |
| Chemesky      | 2010        | 2          | 7.67             |
| Chemesky      | 2010        | 3          | 7.8              |
| Chemesky      | 2010        | 4          | 7.41             |
| Chemesky      | 2010        | 5          | 7.29             |
| Chemesky      | 2010        | 6          | 6.82             |
| Chemesky      | 2010        | 7          | 7.11             |
| Chemesky      | 2010        | 8          | 6.2              |
| Chemesky      | 2010        | 9          | 4.58             |
| Chemesky      | 2010        | 10         | 5.28             |
| Chemesky      | 2010        | 11         | 5.64             |
| Chemesky      | 2010        | 12         | 6.25             |
| Chemesky      | 2011        | 1          | 7.85             |
| Chemesky      | 2011        | 2          | 8.06             |
| Chemesky      | 2011        | 3          | 8.16             |
| Chemesky      | 2011        | 4          | 8.02             |
| Chemesky      | 2011        | 5          | 5.97             |
| Chemesky      | 2011        | 6          | 7.57             |
| Chemesky      | 2011        | 7          | 7.82             |
| Chemesky      | 2011        | 8          | 6.53             |
| Chemesky      | 2011        | 9          | 5.75             |
| Chemesky      | 2011        | 10         | 4.85             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| Chemesky      | 2011        | 11         | 5.42             |
| Chemesky      | 2011        | 12         | 7.39             |
| Chemesky      | 2012        | 1          | 8.02             |
| Chemesky      | 2012        | 2          | 8.26             |
| Chemesky      | 2012        | 3          | 8.8              |
| Chemesky      | 2012        | 4          | 7.11             |
| Chemesky      | 2012        | 5          | 7.84             |
| Chemesky      | 2012        | 6          | 8.93             |
| Chemesky      | 2012        | 7          | 9.49             |
| Chemesky      | 2012        | 8          | 7.73             |
| Chemesky      | 2012        | 9          | 7.21             |
| Chemesky      | 2012        | 10         | 4.97             |
| Chemesky      | 2012        | 11         | 6.62             |
| Chemesky      | 2012        | 12         | 7.44             |
| Chemesky      | 2013        | 1          | 8.8              |
| Chemesky      | 2013        | 2          | 8.54             |
| Chemesky      | 2013        | 3          | 8.54             |
| Chemesky      | 2013        | 4          | 8.53             |
| Chemesky      | 2013        | 5          | 7.98             |
| Chemesky      | 2013        | 6          | 9.71             |
| Chemesky      | 2013        | 7          | 9.34             |
| Chemesky      | 2013        | 8          | 8.04             |
| Chemesky      | 2013        | 9          | 5.79             |
| Chemesky      | 2013        | 10         | 6.65             |
| Chemesky      | 2013        | 11         | 6.38             |
| Chemesky      | 2013        | 12         | 7.98             |
| Chemesky      | 2014        | 1          | 9.41             |
| Chemesky      | 2014        | 2          | 8.74             |
| Chemesky      | 2014        | 3          | 8.51             |
| Chemesky      | 2014        | 4          | 9.22             |
| Chemesky      | 2014        | 5          | 8.74             |
| Chemesky      | 2014        | 6          | 10.49            |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| Chemesky      | 2014        | 7          | 10.63            |
| Chemesky      | 2014        | 8          | 7.87             |
| Chemesky      | 2014        | 9          | 7.63             |
| Chemesky      | 2014        | 10         | 6.42             |
| Chemesky      | 2014        | 11         | 6.8              |
| Chemesky      | 2014        | 12         | 7.89             |
| Chemesky      | 2015        | 1          | 8.96             |
| Chemesky      | 2015        | 2          | 8.24             |
| Chemesky      | 2015        | 3          | 9.03             |
| Chemesky      | 2015        | 4          | 8.71             |
| Chemesky      | 2015        | 5          | 9.89             |
| Chemesky      | 2015        | 6          | 10.95            |
| Chemesky      | 2015        | 7          | 10.77            |
| Chemesky      | 2015        | 8          | 9.25             |
| Chemesky      | 2015        | 9          | 7.66             |
| Chemesky      | 2015        | 10         | 6.63             |
| Chemesky      | 2015        | 11         | 7.71             |
| Chemesky      | 2015        | 12         | 9.93             |
| Chemesky      | 2016        | 1          | 8.17             |
| Chemesky      | 2016        | 2          | 8.65             |
| Chemesky      | 2016        | 3          | 8.66             |
| Chemesky      | 2016        | 4          | 7.05             |
| Chemesky      | 2016        | 5          | 7.31             |
| Chemesky      | 2016        | 6          | 9.31             |
| Chemesky      | 2016        | 7          | 9.62             |
| Chemesky      | 2016        | 8          | 8.53             |
| Chemesky      | 2016        | 9          | 7.36             |
| Chemesky      | 2016        | 10         | 4.97             |
| Chemesky      | 2016        | 11         | 4.79             |
| Chemesky      | 2016        | 12         | 8.13             |
| Chemesky      | 2017        | 1          | 8.11             |
| Chemesky      | 2017        | 2          | 8.15             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| Chemesky      | 2017        | 3          | 7.96             |
| Chemesky      | 2017        | 4          | 8.19             |
| Chemesky      | 2017        | 5          | 8.11             |
| Chemesky      | 2017        | 6          | 9.05             |
| Chemesky      | 2017        | 7          | 9.21             |
| Chemesky      | 2017        | 8          | 7.68             |
| Chemesky      | 2017        | 9          | 5.71             |
| Chemesky      | 2017        | 10         | 6.32             |
| Chemesky      | 2017        | 11         | 5.88             |
| Chemesky      | 2017        | 12         | 8.07             |
| Chemesky      | 2018        | 1          | 8.4              |
| Chemesky      | 2018        | 2          | 9.15             |
| Chemesky      | 2018        | 3          | 8.52             |
| Chemesky      | 2018        | 4          | 8.35             |
| Chemesky      | 2018        | 5          | 8.54             |
| Chemesky      | 2018        | 6          | 9.93             |
| Chemesky      | 2018        | 7          | 9.96             |

## **Formato 22. Plantas Geotérmicas**

Formato No Registrado

## **Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

## **Formato 24. Plantas Solares Fotovoltaicas**

| <b>Nombre</b> | <b>CEN</b> | <b>CTESA</b> | <b>CTESB</b> | <b>CTESC</b> | <b>CTESD</b> | <b>KC</b> | <b>KINC</b> | <b>IHF</b> |
|---------------|------------|--------------|--------------|--------------|--------------|-----------|-------------|------------|
| La Loma Solar | 170.24     | 1.1E-5       | -7.0E-4      | 0.0185       | -0.1157      | 0.9139    | 11981       | 10         |

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**





Bogotá D.C., 21 de Febrero de 2019  
EGP-COL062/19

Doctor:  
**CHRISTIAN JARAMILLO**  
Director Ejecutivo  
CREG  
Comisión de Regulación de Energía y Gas

**Asunto: S-2019-001010.** Respuesta a solicitud de aclaración de ENFICC dentro del proceso de subasta de cargo por confiabilidad para el periodo de vigencia 2022-2023

Respetado Doctor Jaramillo,

En respuesta a su solicitud de aclaración para verificar la ENFICC comunicada mediante radicado S-2019-001010, nos permitimos reportar las nuevas funciones de conversión con el ajuste solicitado por el CND con respecto al ajuste lineal al que hace referencia numeral 2.6 del Capítulo 2 del protocolo aprobado mediante acuerdo CNO 1127.

Resaltamos que la ENFICC declarada era el resultado del ajuste del polinomio de grado 6 reportado en la etapa de declaración de parámetros que representa un ajuste más extenso con respecto a la curva de generación; sin embargo al ajustar las funciones de conversión la ENFICC de cada proyecto se modifica quedando los siguientes valores:

| Proyecto  | Función de conversión | ENFICC (kWh/día) |
|-----------|-----------------------|------------------|
| Windpeshi | $y=459513*x-1266968$  | 779049           |
| Chemesky  | $y=284134*x-1028902$  | 202975           |
| Tumawind  | $y=521027*x-1685433$  | 284049           |

Quedamos atentos a resolver cualquier inquietud adicional.

Cordialmente,

**AZAHARA LÓPEZ DURÁN**  
Representante Legal  
**ENEL GREEN POWER COLOMBIA SAS ESP**

## **EOLOS ENERGÍA S.A.S. E.S.P.**

### **Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

### **Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

### **Formato 3. Plantas o Unidades Térmicas**

Formato No Registrado

### **Formato 4. Caudal Medio Mensual**

Formato No Registrado

### **Formato 5. Embalses**

Formato No Registrado

### **Formato 6. Filtraciones**

Formato No Registrado

### **Formato 7. Curvas de Operación Embalses**

Formato No Registrado

### **Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

### **Formato 9. Arco de Bombeo**

Formato No Registrado

### **Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

| Nombre      | CEN | IHF | FUNCONVERSION |
|-------------|-----|-----|---------------|
| PARQUE BETA | 280 | 10  |               |

**Formato 21. Serie Histórica de Velocidad de Viento**

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| PARQUE BETA   | 2008        | 1          | 8.51             |
| PARQUE BETA   | 2008        | 2          | 9.59             |
| PARQUE BETA   | 2008        | 3          | 9.44             |
| PARQUE BETA   | 2008        | 4          | 8.62             |
| PARQUE BETA   | 2008        | 5          | 8.52             |
| PARQUE BETA   | 2008        | 6          | 10.13            |
| PARQUE BETA   | 2008        | 7          | 9.33             |
| PARQUE BETA   | 2008        | 8          | 6.07             |
| PARQUE BETA   | 2008        | 9          | 4.85             |
| PARQUE BETA   | 2008        | 10         | 5.17             |
| PARQUE BETA   | 2008        | 11         | 4.37             |
| PARQUE BETA   | 2008        | 12         | 6.79             |
| PARQUE BETA   | 2009        | 1          | 8.11             |
| PARQUE BETA   | 2009        | 2          | 9.1              |
| PARQUE BETA   | 2009        | 3          | 9.11             |
| PARQUE BETA   | 2009        | 4          | 9.51             |
| PARQUE BETA   | 2009        | 5          | 8.23             |
| PARQUE BETA   | 2009        | 6          | 8.72             |
| PARQUE BETA   | 2009        | 7          | 11.29            |
| PARQUE BETA   | 2009        | 8          | 9.19             |
| PARQUE BETA   | 2009        | 9          | 7.82             |
| PARQUE BETA   | 2009        | 10         | 7.62             |
| PARQUE BETA   | 2009        | 11         | 5.96             |
| PARQUE BETA   | 2009        | 12         | 8.61             |
| PARQUE BETA   | 2010        | 1          | 9.25             |
| PARQUE BETA   | 2010        | 2          | 7.42             |
| PARQUE BETA   | 2010        | 3          | 7.71             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| PARQUE BETA   | 2010        | 4          | 7.42             |
| PARQUE BETA   | 2010        | 5          | 8.03             |
| PARQUE BETA   | 2010        | 6          | 7.19             |
| PARQUE BETA   | 2010        | 7          | 7.56             |
| PARQUE BETA   | 2010        | 8          | 5.57             |
| PARQUE BETA   | 2010        | 9          | 4.11             |
| PARQUE BETA   | 2010        | 10         | 4.58             |
| PARQUE BETA   | 2010        | 11         | 5.09             |
| PARQUE BETA   | 2010        | 12         | 5.53             |
| PARQUE BETA   | 2011        | 1          | 8.45             |
| PARQUE BETA   | 2011        | 2          | 9.08             |
| PARQUE BETA   | 2011        | 3          | 8.27             |
| PARQUE BETA   | 2011        | 4          | 7.81             |
| PARQUE BETA   | 2011        | 5          | 6.32             |
| PARQUE BETA   | 2011        | 6          | 8.76             |
| PARQUE BETA   | 2011        | 7          | 8.56             |
| PARQUE BETA   | 2011        | 8          | 6.37             |
| PARQUE BETA   | 2011        | 9          | 5.3              |
| PARQUE BETA   | 2011        | 10         | 4.14             |
| PARQUE BETA   | 2011        | 11         | 4.22             |
| PARQUE BETA   | 2011        | 12         | 7.59             |
| PARQUE BETA   | 2012        | 1          | 9.24             |
| PARQUE BETA   | 2012        | 2          | 9.5              |
| PARQUE BETA   | 2012        | 3          | 10.07            |
| PARQUE BETA   | 2012        | 4          | 7.44             |
| PARQUE BETA   | 2012        | 5          | 8.79             |
| PARQUE BETA   | 2012        | 6          | 10.74            |
| PARQUE BETA   | 2012        | 7          | 10.91            |
| PARQUE BETA   | 2012        | 8          | 8                |
| PARQUE BETA   | 2012        | 9          | 7.26             |
| PARQUE BETA   | 2012        | 10         | 4.49             |
| PARQUE BETA   | 2012        | 11         | 5.98             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| PARQUE BETA   | 2012        | 12         | 7.76             |
| PARQUE BETA   | 2013        | 1          | 10.68            |
| PARQUE BETA   | 2013        | 2          | 9.53             |
| PARQUE BETA   | 2013        | 3          | 8.86             |
| PARQUE BETA   | 2013        | 4          | 9.11             |
| PARQUE BETA   | 2013        | 5          | 8.76             |
| PARQUE BETA   | 2013        | 6          | 11.41            |
| PARQUE BETA   | 2013        | 7          | 10.73            |
| PARQUE BETA   | 2013        | 8          | 8.03             |
| PARQUE BETA   | 2013        | 9          | 5.55             |
| PARQUE BETA   | 2013        | 10         | 6.22             |
| PARQUE BETA   | 2013        | 11         | 6.29             |
| PARQUE BETA   | 2013        | 12         | 8.93             |
| PARQUE BETA   | 2014        | 1          | 11.22            |
| PARQUE BETA   | 2014        | 2          | 10.04            |
| PARQUE BETA   | 2014        | 3          | 9.06             |
| PARQUE BETA   | 2014        | 4          | 10.82            |
| PARQUE BETA   | 2014        | 5          | 9.82             |
| PARQUE BETA   | 2014        | 6          | 12.43            |
| PARQUE BETA   | 2014        | 7          | 12.7             |
| PARQUE BETA   | 2014        | 8          | 8.69             |
| PARQUE BETA   | 2014        | 9          | 8.52             |
| PARQUE BETA   | 2014        | 10         | 6.76             |
| PARQUE BETA   | 2014        | 11         | 6.8              |
| PARQUE BETA   | 2014        | 12         | 8.71             |
| PARQUE BETA   | 2015        | 1          | 9.71             |
| PARQUE BETA   | 2015        | 2          | 9.12             |
| PARQUE BETA   | 2015        | 3          | 10.35            |
| PARQUE BETA   | 2015        | 4          | 10.1             |
| PARQUE BETA   | 2015        | 5          | 11.63            |
| PARQUE BETA   | 2015        | 6          | 12.17            |
| PARQUE BETA   | 2015        | 7          | 11.59            |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| PARQUE BETA   | 2015        | 8          | 9.84             |
| PARQUE BETA   | 2015        | 9          | 8.17             |
| PARQUE BETA   | 2015        | 10         | 6.91             |
| PARQUE BETA   | 2015        | 11         | 8.83             |
| PARQUE BETA   | 2015        | 12         | 12.07            |
| PARQUE BETA   | 2016        | 1          | 8.63             |
| PARQUE BETA   | 2016        | 2          | 9.56             |
| PARQUE BETA   | 2016        | 3          | 9.4              |
| PARQUE BETA   | 2016        | 4          | 7.31             |
| PARQUE BETA   | 2016        | 5          | 9.12             |
| PARQUE BETA   | 2016        | 6          | 11.4             |
| PARQUE BETA   | 2016        | 7          | 10.91            |
| PARQUE BETA   | 2016        | 8          | 9.55             |
| PARQUE BETA   | 2016        | 9          | 8.1              |
| PARQUE BETA   | 2016        | 10         | 4.53             |
| PARQUE BETA   | 2016        | 11         | 4.03             |
| PARQUE BETA   | 2016        | 12         | 7.97             |
| PARQUE BETA   | 2017        | 1          | 8.21             |
| PARQUE BETA   | 2017        | 2          | 8.34             |
| PARQUE BETA   | 2017        | 3          | 8.51             |
| PARQUE BETA   | 2017        | 4          | 9.36             |
| PARQUE BETA   | 2017        | 5          | 9.54             |
| PARQUE BETA   | 2017        | 6          | 10.35            |
| PARQUE BETA   | 2017        | 7          | 10.2             |
| PARQUE BETA   | 2017        | 8          | 7.93             |
| PARQUE BETA   | 2017        | 9          | 5.75             |
| PARQUE BETA   | 2017        | 10         | 6.69             |
| PARQUE BETA   | 2017        | 11         | 5.82             |
| PARQUE BETA   | 2017        | 12         | 8.5              |
| PARQUE BETA   | 2018        | 1          | 9.1              |
| PARQUE BETA   | 2018        | 2          | 10.18            |
| PARQUE BETA   | 2018        | 3          | 9.46             |

| Nombre      | ANOS | MES | VELOCIDAD |
|-------------|------|-----|-----------|
| PARQUE BETA | 2018 | 4   | 9.53      |
| PARQUE BETA | 2018 | 5   | 11.08     |
| PARQUE BETA | 2018 | 6   | 12        |
| PARQUE BETA | 2018 | 7   | 11.76     |

#### **Formato 22. Plantas Geotérmicas**

Formato No Registrado

#### **Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

#### **Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

#### **Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

#### **Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente EOLOS ENERGÍA S.A.S. E.S.P.**

## EPM

### Formato 1. Plantas o Unidades Hidráulicas

| Nombre            | Capacidad Efectiva Neta (MW) | Eficiencia (MW/m3/s) | IHF (%) |
|-------------------|------------------------------|----------------------|---------|
| GUATAPE           | 560                          | 6.9915               | 18.4466 |
| PLAYAS            | 207                          | 1.5539               | 8.9926  |
| TRONERAS          | 40                           | 0.6152               | 2.7703  |
| GUADALUPE3        | 270                          | 4.3136               | 5.985   |
| GUADALUPE4        | 202                          | 3.5158               | 9.0763  |
| LATASAJERA        | 306                          | 8.0742               | 8.3866  |
| PORCE2            | 405                          | 2.2304               | 8.0532  |
| PORCE3            | 700                          | 3.1911               | 4.3997  |
| SANFRANCISCO      | 135                          | 1.5386               | 39.4066 |
| ESMERALDA         | 30                           | 1.3202               | 0.8297  |
| PESCADERO-ITUANGO | 1200                         | 1.7019               | 15      |

### Formato 2. Topología Plantas Hidráulicas

| Nombre  | Elemento Clase | Elemento Nombre | Aportes Rio | Aportes Embalse | Aportes Planta | Aportes Otro | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro  | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|---------|----------------|-----------------|-------------|-----------------|----------------|--------------|--------------|------------------|------------------|----------------|------------------|----------------------|---------------------|------------------|
| Guatape | E              | Penol           | NARE        |                 |                |              |              |                  | GUATAPE          | Acueducto Nare |                  | San Lorenzo          |                     |                  |
| Guatape | P              | Guatape         |             | PENOL           |                |              |              | Playas           |                  |                |                  |                      |                     |                  |
| Guatape | E              | Playas          | GUATAPE     |                 | GUATAPE+JAGUAS |              |              |                  | PLAYAS           |                |                  | Punchina             |                     |                  |
| Guatape | P              | Playas          |             | PLAYAS          |                |              |              | Punchina         |                  |                |                  |                      |                     |                  |

| Nombre  | Elemento Clase | Elemento Nombre      | Aportes Rio | Aportes Embalse | Aportes Planta | Aportes Otro                                                        | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro        | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|---------|----------------|----------------------|-------------|-----------------|----------------|---------------------------------------------------------------------|--------------|------------------|------------------|----------------------|------------------|----------------------|---------------------|------------------|
| Guatape | F              | Acueducto NARE       |             | PENOL           |                |                                                                     |              | Porce2           |                  |                      |                  |                      |                     |                  |
| Guatron | E              | Miraflor es          | TENCHE      |                 |                |                                                                     |              |                  |                  | Miraflor es-Tenche   |                  |                      |                     | Tenche-Troneras  |
| Guatron | AD             | Miraflor es-Tenche   |             | MIRAFLORES      |                |                                                                     |              |                  |                  | Tenche-Troneras      |                  |                      |                     |                  |
| Guatron | AD             | Tenche-Troneras      | CONCEPCION  |                 |                | Dolores-Concepcion+Miraflor es-Tenche+VertimientoEmbalseMiraflor es |              | Troneras         |                  |                      |                  |                      |                     | Tierra           |
| Guatron | AD             | Nechi-Pajarito       | NECHI       |                 |                |                                                                     |              |                  |                  | Pajarito-Dolores     |                  |                      |                     | Tierra           |
| Guatron | AD             | Pajarito-Dolores     | PAJARITO    |                 |                | Nechi-Pajarito                                                      |              |                  |                  | Dolores-Concepcion   |                  |                      |                     | Tierra           |
| Guatron | AD             | Dolores-Concepcion   | DOLOR ES    |                 |                | Pajarito-Dolores                                                    |              |                  |                  | Tenche-Troneras      |                  |                      |                     | Tierra           |
| Guatron | E              | Troneras             | GUADALUPE   |                 |                | Tenche-Troneras                                                     |              |                  | TRONERAS         | Troneras - Guadalupe |                  |                      | GUADALUPE3          |                  |
| Guatron | P              | Troneras             |             | TRONERAS        |                |                                                                     |              |                  | GUADALUPE3       |                      |                  |                      |                     |                  |
| Guatron | AD             | Troneras - Guadalupe |             | TRONERAS        |                |                                                                     |              |                  | GUADALUPE3       |                      |                  |                      |                     |                  |

| Nombre  | Elemento Clase | Elemento Nombre    | Aportes Rio  | Aportes Embalse | Aportes Planta | Aportes Otro                                      | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro                       | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|---------|----------------|--------------------|--------------|-----------------|----------------|---------------------------------------------------|--------------|------------------|------------------|-------------------------------------|------------------|----------------------|---------------------|------------------|
| Guatron | P              | Guadalupe3         | CANAS GORDAS |                 | TRONERAS       | Troneras - Guadalupe+VertimientoEmbalseTroneras   |              |                  | GUADALUPE4       |                                     |                  | Porce3               |                     |                  |
| Guatron | P              | Guadalupe4         |              |                 | GUADALUPE3     |                                                   |              | Tierra           |                  |                                     |                  | Porce3               |                     |                  |
| Porce   | F              | Acueducto GRANDE   |              | RIOGRANDE2      |                |                                                   |              | Porce2           |                  |                                     |                  |                      |                     |                  |
| Porce   | E              | Riogrande2         | GRANDE       |                 |                |                                                   |              |                  | LATASAJERA       | Valvula Riogrande2+Acueducto Grande |                  |                      |                     | Canal Quebradona |
| Porce   | P              | Latasajera         |              | RIOGRANDE2      |                |                                                   |              | Porce2           |                  |                                     |                  |                      |                     |                  |
| Porce   | AD             | Valvula Riogrande2 |              | RIOGRANDE2      |                |                                                   |              |                  |                  | Canal Quebradona                    |                  |                      |                     |                  |
| Porce   | AD             | Canal Quebradona   |              |                 |                | Válvula Riogrande2 + VertimientoEmbalseRiogrande2 |              | Quebradona       |                  |                                     |                  | Porce2               |                     |                  |
| Porce   | E              | Quebradona         | QUEBRADONA   |                 |                | Canal Quebradona                                  |              |                  | RIOGRANDE1       |                                     |                  | Porce2               |                     |                  |
| Porce   | P              | Riogrande1         |              | QUEBRADONA      |                |                                                   |              | Porce2           |                  |                                     |                  |                      |                     |                  |

| Nombre    | Elemento Clase | Elemento Nombre        | Aportes Rio       | Aportes Embalse | Aportes Planta    | Aportes Otro                                                                               | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro    | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|-----------|----------------|------------------------|-------------------|-----------------|-------------------|--------------------------------------------------------------------------------------------|--------------|------------------|------------------|------------------|------------------|----------------------|---------------------|------------------|
| Porce     | P              | Carlos Lleras Restrepo | Medellin o Aburra |                 | LATAS AJERA       |                                                                                            |              | Porce2           |                  |                  |                  | Porce2               |                     |                  |
| Porce     | E              | Porce2                 | PORCE 2           |                 | RIOGRANDE1        | Acueducto Nare+Acueducto Grande+VertimientoCanal Quebradona+Vertimiento Embalse Quebradona |              |                  | PORCE 2          |                  |                  | Tierra               |                     |                  |
| Porce     | P              | Porce2                 |                   | PORCE 2         |                   |                                                                                            |              | Tierra           |                  |                  |                  |                      |                     |                  |
| Porce     | E              | Porce3                 | Porce3            |                 | Porce2+Guadalupe4 | VertimientoGuadalupe3+VertimientoGuadalupe4+VertimientoEmbalsePorce2                       |              |                  | Porce3           | Caudal ecológico |                  |                      |                     | Tierra           |
| Porce     | F              | Caudal Ecológico       |                   | Porce3          |                   |                                                                                            |              |                  |                  | Tierra           |                  |                      |                     |                  |
| Porce     | P              | Porce3                 |                   | Porce3          |                   |                                                                                            |              |                  |                  |                  |                  |                      |                     | Tierra           |
| Pescadero | E              | Salvajina              | Cauca             |                 |                   |                                                                                            |              |                  | Salvajina        |                  |                  | Pescadero            |                     |                  |
| Pescadero | P              | Salvajina              |                   | Salvajina       |                   |                                                                                            |              | Pescadero        |                  |                  |                  |                      |                     |                  |

| Nombre    | Elemento Clase | Elemento Nombre   | Aportes Rio                    | Aportes Embalse | Aportes Planta | Aportes Otro                  | Descarga Rio | Descarga Embalse | Descargas Planta  | Descarga Otro | Vertimientos Rio               | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|-----------|----------------|-------------------|--------------------------------|-----------------|----------------|-------------------------------|--------------|------------------|-------------------|---------------|--------------------------------|----------------------|---------------------|------------------|
| Pescadero | E              | Pescadero         | Cauca-Pescadero                |                 | Salvajina      | Vertimiento Embalse Salvajina |              |                  | Pescadero-Ituango |               |                                |                      |                     | Tierra           |
| Pescadero | P              | Pescadero-Ituango |                                | Pescadero       |                |                               |              |                  |                   | Tierra        |                                |                      |                     |                  |
| CHEC      | AD             |                   | Chinchina                      |                 |                |                               |              | Cameguadua       |                   |               | Faguacampoalegre (San Eugenio) |                      |                     |                  |
| CHEC      | AD             | AD-2              | Campoalegre                    |                 |                |                               |              | Cameguadua       |                   |               |                                |                      |                     | Tierra           |
| CHEC      | E              | Cameguadua        |                                |                 |                | AD-1 y AD-2                   |              |                  | Insula            | AD-3          |                                |                      |                     | AD-3             |
| CHEC      | P              | Insula            |                                | Cameguadua      |                |                               |              |                  |                   |               |                                |                      |                     | Tierra           |
| CHEC      | AD             | AD-3              | Faguacampoalegre (San Eugenio) |                 | Insula         | Vertimiento Planta Insula     |              |                  | Esmeralda         |               |                                |                      |                     | Tierra           |
| CHEC      | AD             | AD-4              | Quebrada La Estrella           |                 |                |                               |              |                  | Esmeralda         |               |                                |                      |                     |                  |
| CHEC      | P              | Esmeralda         |                                |                 |                | AD-3 y AD-4                   |              | San Francisco    |                   |               |                                |                      |                     | Tierra           |
| CHEC      | AD             | AD-5              | San Francisco                  |                 |                |                               |              | San Francisco    |                   |               |                                |                      |                     | Tierra           |
| CHEC      | E              | San Francisco     |                                |                 | Esmeralda      | AD-5                          |              |                  | San Francisco     |               |                                |                      |                     |                  |
| CHEC      | P              | San Francisco     |                                | San Francisco   |                |                               | Cauca        |                  |                   |               |                                |                      |                     |                  |

### Formato 3. Plantas o Unidades Térmicas

| Nombre      | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|-------------|------------------------------|-----------------------|---------|
| TERMOSIERRA | 353.12                       | 7.1417                | 7.92    |
| Termodorada | 44.54                        | 10.2555               | 33.9085 |

### Formato 4. Caudal Medio Mensual

| Nombre | Año  | Caudal Enero (m3/s) | Caudal Febrero (m3/s) | Caudal Marzo (m3/s) | Caudal Abril (m3/s) | Caudal Mayo(m3/s) | Caudal Junio (m3/s) | Caudal Julio (m3/s) | Caudal Agosto (m3/s) | Caudal Septiembre (m3/s) | Caudal Octubre (m3/s) | Caudal Noviembre (m3/s) | Caudal Diciembre (m3/s) |
|--------|------|---------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| NARE   | 1955 |                     |                       |                     |                     |                   |                     |                     | 47.9                 | 59.4                     | 79                    | 88.4                    | 69                      |
| NARE   | 1956 | 65.2                | 56.6                  | 52.4                | 48.9                | 87                | 73.8                | 53.6                | 59.5                 | 65.2                     | 90                    | 79.6                    | 59.1                    |
| NARE   | 1957 | 37.9                | 31.3                  | 24.7                | 46                  | 58                | 46.7                | 38                  | 40.3                 | 41.1                     | 49.9                  | 44.4                    | 37                      |
| NARE   | 1958 | 22.7                | 20.7                  | 27.4                | 29.9                | 47.3              | 28.8                | 23.4                | 43.4                 | 29                       | 40.5                  | 37                      | 33.8                    |
| NARE   | 1959 | 20.5                | 17.5                  | 19.4                | 26                  | 38.3              | 39.2                | 32.8                | 36.8                 | 59.8                     | 51.7                  | 51.1                    | 30.7                    |
| NARE   | 1960 | 25.1                | 23                    | 27.5                | 32.9                | 46.4              | 43.9                | 52.5                | 36.4                 | 56.4                     | 51.1                  | 48                      | 54.8                    |
| NARE   | 1961 | 30.6                | 29.1                  | 28.2                | 34                  | 33.2              | 41.4                | 37.3                | 32                   | 57.2                     | 59.4                  | 79.1                    | 47.3                    |
| NARE   | 1962 | 29.4                | 25.5                  | 37.6                | 46.2                | 85.7              | 84.7                | 52.9                | 57.2                 | 59                       | 80.6                  | 67.7                    | 43.6                    |
| NARE   | 1963 | 31.6                | 42.1                  | 45.1                | 59.1                | 62.2              | 43.2                | 46.2                | 46.8                 | 50.6                     | 62.4                  | 76.4                    | 38.1                    |
| NARE   | 1964 | 27.6                | 21.8                  | 21.6                | 41.8                | 36.8              | 54.3                | 55.5                | 54.6                 | 60.3                     | 57.5                  | 61.6                    | 43.2                    |
| NARE   | 1965 | 31.8                | 27.1                  | 25.5                | 34.1                | 50.7              | 35.6                | 30.9                | 45.2                 | 63.7                     | 66.2                  | 75.9                    | 46                      |
| NARE   | 1966 | 30.6                | 25.5                  | 25.2                | 30.5                | 36.2              | 55.1                | 45.6                | 57.1                 | 49.9                     | 55.5                  | 69.1                    | 66                      |
| NARE   | 1967 | 42.2                | 30.3                  | 32.7                | 56.3                | 65.5              | 71                  | 49.2                | 45.5                 | 60                       | 49                    | 48.2                    | 34.7                    |
| NARE   | 1968 | 26.4                | 23.8                  | 28.2                | 48.4                | 44                | 65.4                | 66.7                | 47                   | 73.4                     | 71.9                  | 68.3                    | 46.9                    |
| NARE   | 1969 | 38.2                | 23.8                  | 23.1                | 53.6                | 55.1              | 43                  | 21.7                | 50.2                 | 59.1                     | 84.3                  | 68                      | 44.2                    |
| NARE   | 1970 | 36.1                | 25                    | 26.4                | 34.2                | 75.9              | 51.7                | 49                  | 42.4                 | 59.8                     | 93                    | 106.3                   | 61.4                    |
| NARE   | 1971 | 52.6                | 44.1                  | 55.4                | 61.4                | 97                | 80.9                | 90.7                | 108.5                | 96.5                     | 77.4                  | 61.4                    | 46                      |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| NARE   | 1972 | 39.09                     | 32.64                       | 33.76                     | 45.11                     | 95.72                    | 67.96                     | 48.2                      | 45.4                       | 45.54                              | 52.54                       | 55.21                          | 38.81                          |
| NARE   | 1973 | 28.01                     | 22.69                       | 24.09                     | 27.31                     | 35.16                    | 53.24                     | 36.14                     | 54.93                      | 104.97                             | 72.73                       | 59.69                          | 73.01                          |
| NARE   | 1974 | 52.4                      | 48.2                        | 41.19                     | 58.57                     | 61.23                    | 63.62                     | 55.21                     | 62.92                      | 92.91                              | 96.7                        | 84.78                          | 49.46                          |
| NARE   | 1975 | 34.32                     | 36.28                       | 35.3                      | 36.7                      | 49.6                     | 55.35                     | 73.01                     | 68.52                      | 79.74                              | 77.91                       | 96                             | 81.14                          |
| NARE   | 1976 | 49.6                      | 38.81                       | 33.2                      | 66.42                     | 74.83                    | 64.88                     | 35.44                     | 29.56                      | 30.26                              | 58.99                       | 57.73                          | 32.08                          |
| NARE   | 1977 | 23.81                     | 25.07                       | 21.85                     | 27.03                     | 35.58                    | 45.68                     | 37.27                     | 53.24                      | 42.03                              | 61.51                       | 58.43                          | 35.72                          |
| NARE   | 1978 | 34.02                     | 30.84                       | 43.85                     | 95.74                     | 76.75                    | 68.69                     | 67                        | 41.29                      | 46.26                              | 58.38                       | 54.92                          | 46.64                          |
| NARE   | 1979 | 32.8                      | 29.78                       | 33.46                     | 44.11                     | 59.34                    | 60.99                     | 37.66                     | 45.31                      | 64.1                               | 67.01                       | 83.53                          | 55.16                          |
| NARE   | 1980 | 35.32                     | 29.83                       | 25.52                     | 31.53                     | 36.35                    | 42.6                      | 32.18                     | 33.36                      | 32.72                              | 62.04                       | 60.78                          | 45.44                          |
| NARE   | 1981 | 27.83                     | 23.3                        | 26.48                     | 40.87                     | 86.81                    | 90.51                     | 65.57                     | 41.34                      | 68.31                              | 69.62                       | 74.91                          | 50.91                          |
| NARE   | 1982 | 50.5                      | 46.96                       | 40.93                     | 71.81                     | 95.75                    | 47.46                     | 32.98                     | 32.31                      | 34.44                              | 51.88                       | 53.33                          | 35.11                          |
| NARE   | 1983 | 26.55                     | 24.74                       | 25.94                     | 48.92                     | 51.68                    | 39.38                     | 41.03                     | 35.99                      | 48.66                              | 48.8                        | 41.15                          | 47.31                          |
| NARE   | 1984 | 43.24                     | 33.02                       | 28.44                     | 30.04                     | 59.1                     | 83.02                     | 66.94                     | 56.95                      | 61.96                              | 84.14                       | 82.33                          | 45.64                          |
| NARE   | 1985 | 32.93                     | 30.35                       | 36.05                     | 43.38                     | 76.27                    | 44.87                     | 34.3                      | 73.44                      | 74.34                              | 56.89                       | 59.26                          | 45.9                           |
| NARE   | 1986 | 31.95                     | 37.7                        | 41.63                     | 53.24                     | 47.9                     | 52.62                     | 38.92                     | 37.67                      | 40.15                              | 75.37                       | 56.14                          | 38.24                          |
| NARE   | 1987 | 27.67                     | 25.93                       | 24.56                     | 33.2                      | 55.9                     | 31.81                     | 34.98                     | 48.14                      | 51.26                              | 78.61                       | 63.86                          | 48.34                          |
| NARE   | 1988 | 32.88                     | 31.13                       | 30.32                     | 36.77                     | 42.54                    | 57.87                     | 61.45                     | 82.77                      | 91.94                              | 87.39                       | 104.95                         | 76.64                          |
| NARE   | 1989 | 55.11                     | 42.3                        | 44.62                     | 49.43                     | 62.02                    | 66.03                     | 40.54                     | 50.23                      | 80.62                              | 83.98                       | 67.06                          | 50.5                           |
| NARE   | 1990 | 35.13                     | 35.16                       | 30.06                     | 43.37                     | 55.75                    | 49.68                     | 44.81                     | 33.01                      | 47.51                              | 82.79                       | 62.19                          | 44.27                          |
| NARE   | 1991 | 31.25                     | 26.4                        | 30.24                     | 42.3                      | 55.31                    | 50.19                     | 39.87                     | 38.19                      | 31.78                              | 55.17                       | 43.33                          | 40.23                          |
| NARE   | 1992 | 28.01                     | 24.4                        | 24.03                     | 27.54                     | 39.89                    | 35.28                     | 25                        | 35.15                      | 49.23                              | 40.87                       | 38.01                          | 49.63                          |
| NARE   | 1993 | 34.39                     | 25.36                       | 28.17                     | 37.65                     | 61.7                     | 33.35                     | 43.54                     | 43                         | 69.77                              | 60.95                       | 74.1                           | 53.67                          |
| NARE   | 1994 | 35.67                     | 31.26                       | 31.27                     | 51.36                     | 55.91                    | 47.27                     | 38.66                     | 33.33                      | 41.57                              | 72.4                        | 67.77                          | 39.92                          |
| NARE   | 1995 | 26.51                     | 22.52                       | 33.55                     | 35.52                     | 59.77                    | 64.56                     | 60.42                     | 89.46                      | 57.72                              | 58.63                       | 48.52                          | 54.2                           |
| NARE   | 1996 | 41.99                     | 37.77                       | 54.45                     | 52.15                     | 87.8                     | 79.72                     | 79.74                     | 58.3                       | 59.16                              | 77.02                       | 49.92                          | 41.84                          |
| NARE   | 1997 | 41.4                      | 40.18                       | 40.31                     | 48.66                     | 35.79                    | 61.96                     | 30.37                     | 24.82                      | 28.3                               | 32.35                       | 37.63                          | 25.7                           |
| NARE   | 1998 | 18.78                     | 18.67                       | 18.87                     | 24.8                      | 44.73                    | 43.95                     | 48.77                     | 47.87                      | 71.16                              | 62.94                       | 58.91                          | 74.23                          |
| NARE   | 1999 | 51.59                     | 67.88                       | 83.28                     | 71.4                      | 87.21                    | 74.21                     | 49.87                     | 37.71                      | 85.32                              | 89.91                       | 104.18                         | 110.34                         |
| NARE   | 2000 | 50.22                     | 51.62                       | 52.78                     | 50.85                     | 88.92                    | 108.15                    | 87.4                      | 80.27                      | 107.83                             | 88.76                       | 73.81                          | 45.1                           |
| NARE   | 2001 | 40.49                     | 30.02                       | 36.9                      | 34.07                     | 46.18                    | 46.43                     | 41.02                     | 27.37                      | 35.75                              | 38.25                       | 51.02                          | 42.83                          |

| Nombre      | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|-------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| NARE        | 2002 | 27.72                     | 25.45                       | 27.06                     | 65.31                     | 57.62                    | 57.27                     | 38.22                     | 28.45                      | 33.4                               | 40                          | 51.93                          | 38.03                          |
| NARE        | 2003 | 23.6                      | 22.29                       | 31.43                     | 45.75                     | 48.69                    | 79.23                     | 40                        | 35.13                      | 40.6                               | 50.19                       | 65.15                          | 47.67                          |
| NARE        | 2004 | 33.92                     | 29.75                       | 35.13                     | 50.77                     | 69.08                    | 49.52                     | 59                        | 42.13                      | 76.76                              | 79.7                        | 109.7                          | 53.2                           |
| NARE        | 2005 | 38.88                     | 32.33                       | 36.58                     | 49.36                     | 87.34                    | 80.33                     | 53.04                     | 36.8                       | 48.4                               | 79.4                        | 87.25                          | 46.45                          |
| NARE        | 2006 | 39.43                     | 34.49                       | 39.88                     | 70.31                     | 103.81                   | 68.61                     | 39.11                     | 42.97                      | 58.72                              | 61.38                       | 86.6                           | 53.32                          |
| NARE        | 2007 | 35.97                     | 29.55                       | 30.1                      | 61.99                     | 97.33                    | 71.25                     | 46.76                     | 59.12                      | 83.35                              | 112.56                      | 84.77                          | 63.28                          |
| NARE        | 2008 | 48.97                     | 59.08                       | 79.45                     | 70.06                     | 111.52                   | 102.87                    | 94.15                     | 109.79                     | 94.61                              | 111.47                      | 128.3                          | 70.71                          |
| NARE        | 2009 | 57.7                      | 52.55                       | 50.03                     | 66.15                     | 77.14                    | 64.7                      | 55.94                     | 40.35                      | 33.31                              | 47.43                       | 67.52                          | 30.39                          |
| NARE        | 2010 | 24.21                     | 22.45                       | 24.43                     | 34.36                     | 50.02                    | 77.58                     | 98.88                     | 68.54                      | 117.74                             | 115.42                      | 138.69                         | 106.39                         |
| NARE        | 2011 | 57.35                     | 50.72                       | 92.06                     | 201.99                    | 114.77                   | 102.16                    | 86.11                     | 62.28                      | 63.89                              | 95.65                       | 117.81                         | 121.26                         |
| NARE        | 2012 | 64.23                     | 45.53                       | 43.21                     | 108.3                     | 128.98                   | 51                        | 46.66                     | 47.2                       | 35.63                              | 60.95                       | 70.62                          | 51.26                          |
| NARE        | 2013 | 31.92                     | 41.82                       | 44.93                     | 36.58                     | 81.52                    | 63.3                      | 43.31                     | 52.95                      | 53.95                              | 71.36                       | 80.86                          | 69.59                          |
| NARE        | 2014 | 41.54                     | 34.79                       | 41.8                      | 33.95                     | 62.09                    | 48.12                     | 32.54                     | 38.35                      | 53.62                              | 69.4                        | 72.64                          | 45.8                           |
| NARE        | 2015 | 28.96                     | 35.63                       | 28.6                      | 35.88                     | 32.84                    | 29.19                     | 31.59                     | 32.32                      | 30.39                              | 33.19                       | 50.34                          | 24.5                           |
| NARE        | 2016 | 17.16                     | 18.08                       | 15.82                     | 27.53                     | 45.9                     | 33.94                     | 32.64                     | 27.48                      | 73.02                              | 68.23                       | 83.01                          | 57.72                          |
| NARE        | 2017 | 45.43                     | 35.24                       | 78.6                      | 73.96                     | 104.31                   | 74.59                     | 46.81                     | 41.03                      | 62.01                              | 55.85                       | 54.98                          | 48.46                          |
| GUATA<br>PE | 1959 | 20.39                     | 12.77                       | 12.79                     | 19.22                     | 32.13                    | 28.45                     | 19.76                     | 23.27                      | 34.19                              | 39.72                       | 34.4                           | 29.89                          |
| GUATA<br>PE | 1960 | 17.55                     | 12.58                       | 13.56                     | 19.51                     | 34.87                    | 28.19                     | 35.35                     | 23.58                      | 32.82                              | 42.4                        | 43.38                          | 26.35                          |
| GUATA<br>PE | 1961 | 14.06                     | 11.9                        | 20.19                     | 23.82                     | 19.89                    | 26.68                     | 24.27                     | 20.13                      | 35.93                              | 34.82                       | 48.21                          | 36.34                          |
| GUATA<br>PE | 1962 | 21.42                     | 18.16                       | 26.47                     | 25.27                     | 43.42                    | 35.8                      | 24.1                      | 29.24                      | 23.79                              | 34.93                       | 30.74                          | 20.93                          |
| GUATA<br>PE | 1963 | 19.26                     | 14.45                       | 20.29                     | 30.71                     | 34.38                    | 20.66                     | 24.53                     | 28.05                      | 35.56                              | 43.05                       | 47.87                          | 30.39                          |
| GUATA<br>PE | 1964 | 12.64                     | 10.4                        | 10.85                     | 19.85                     | 19.9                     | 26.02                     | 26.32                     | 24.48                      | 32.12                              | 36.05                       | 42.75                          | 23.08                          |
| GUATA<br>PE | 1965 | 21.59                     | 18.19                       | 14.68                     | 23.4                      | 43.6                     | 21.91                     | 15.53                     | 25.1                       | 47.43                              | 38.5                        | 45.94                          | 27.12                          |
| GUATA<br>PE | 1966 | 29.67                     | 17.76                       | 21.16                     | 24.67                     | 33.18                    | 35.63                     | 21.48                     | 31.05                      | 30.42                              | 45.31                       | 47.75                          | 37.01                          |

| Nombre      | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|-------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| GUATA<br>PE | 1967 | 28.18                     | 20.84                       | 24.04                     | 45.73                     | 41.48                    | 31.48                     | 34.56                     | 26.48                      | 31.91                              | 35.95                       | 30.31                          | 22.97                          |
| GUATA<br>PE | 1968 | 17.65                     | 12.76                       | 16.59                     | 33.61                     | 32.65                    | 34.88                     | 39.35                     | 38.82                      | 53.71                              | 52.75                       | 40.73                          | 25.74                          |
| GUATA<br>PE | 1969 | 24.67                     | 14.89                       | 14.36                     | 30.2                      | 30.84                    | 25.63                     | 13.29                     | 30.74                      | 50.09                              | 49.03                       | 44.67                          | 30.63                          |
| GUATA<br>PE | 1970 | 24.57                     | 16.17                       | 15.31                     | 21.7                      | 39.14                    | 22.97                     | 32.97                     | 25.42                      | 47.75                              | 69.02                       | 45.73                          | 29.88                          |
| GUATA<br>PE | 1971 | 34.03                     | 27.76                       | 46.79                     | 37.33                     | 73.6                     | 34.14                     | 34.14                     | 41.08                      | 45.94                              | 47.11                       | 42.1                           | 32.87                          |
| GUATA<br>PE | 1972 | 31.51                     | 20.8                        | 23.13                     | 30.45                     | 16.65                    | 29.76                     | 14.41                     | 23.62                      | 20.22                              | 29.19                       | 36.99                          | 24.88                          |
| GUATA<br>PE | 1973 | 15.79                     | 10.62                       | 13.83                     | 22.22                     | 26.13                    | 36.3                      | 18.36                     | 37.53                      | 45.22                              | 39.25                       | 57.47                          | 21.57                          |
| GUATA<br>PE | 1974 | 8.41                      | 24.97                       | 13.96                     | 35.48                     | 50.34                    | 37.97                     | 27.19                     | 44.2                       | 46.78                              | 49.03                       | 54.02                          | 26.09                          |
| GUATA<br>PE | 1975 | 19.14                     | 18.24                       | 24.65                     | 43.16                     | 43.36                    | 38.23                     | 43.83                     | 30.91                      | 44.72                              | 48.23                       | 40.41                          | 39.44                          |
| GUATA<br>PE | 1976 | 22.96                     | 18.33                       | 27.93                     | 51.17                     | 43.3                     | 23.7                      | 10.93                     | 11.45                      | 15.13                              | 41.59                       | 31.76                          | 15.61                          |
| GUATA<br>PE | 1977 | 12.93                     | 13.35                       | 16.84                     | 18.26                     | 30.38                    | 27.14                     | 27.28                     | 33.9                       | 33.18                              | 35.02                       | 38.61                          | 17.72                          |
| GUATA<br>PE | 1978 | 12.35                     | 4.85                        | 19.48                     | 41.12                     | 40.41                    | 29.21                     | 30.34                     | 19.89                      | 28.34                              | 32.92                       | 35.11                          | 31.57                          |
| GUATA<br>PE | 1979 | 14.69                     | 13.9                        | 15.67                     | 20.79                     | 32.33                    | 28.98                     | 19.7                      | 26.41                      | 31.5                               | 49.12                       | 37.57                          | 22.49                          |
| GUATA<br>PE | 1980 | 14.47                     | 15.45                       | 11.65                     | 11.1                      | 27.55                    | 24.09                     | 20.65                     | 21.82                      | 27.84                              | 42.91                       | 44.83                          | 22.41                          |
| GUATA<br>PE | 1981 | 11.81                     | 14.96                       | 13.56                     | 30.49                     | 49.7                     | 42.73                     | 26.95                     | 22.31                      | 30.16                              | 44.36                       | 35.64                          | 22.89                          |
| GUATA<br>PE | 1982 | 18.33                     | 26.28                       | 39.93                     | 45.89                     | 40.32                    | 23.24                     | 17.74                     | 17.93                      | 51.06                              | 38.33                       | 28.58                          | 21.02                          |
| GUATA<br>PE | 1983 | 16.71                     | 7.51                        | 7.39                      | 24.18                     | 33.33                    | 22.29                     | 25.81                     | 21.65                      | 37.24                              | 40.68                       | 34.05                          | 37.35                          |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| GUATA<br>PE   | 1984       | 29.04                              | 31.27                                | 20.22                              | 27.03                              | 39.65                             | 43.9                               | 29.82                              | 33.16                               | 46.28                                        | 53.14                                | 53.43                                   | 49.54                                   |
| GUATA<br>PE   | 1985       | 23.88                              | 20.78                                | 27.47                              | 32.68                              | 44.88                             | 26.69                              | 20.44                              | 37.02                               | 38.12                                        | 31.68                                | 26.57                                   | 25.93                                   |
| GUATA<br>PE   | 1986       | 28.33                              | 25.83                                | 21.74                              | 48.08                              | 45.18                             | 28.74                              | 17.56                              | 26.56                               | 34.87                                        | 49.27                                | 48.57                                   | 30.95                                   |
| GUATA<br>PE   | 1987       | 19.66                              | 16.29                                | 28.9                               | 28.21                              | 45.33                             | 29.42                              | 40.95                              | 48.01                               | 66.44                                        | 71.78                                | 53.57                                   | 25.24                                   |
| GUATA<br>PE   | 1988       | 18.8                               | 32.63                                | 28.15                              | 55.3                               | 46.44                             | 38.6                               | 34.46                              | 48.01                               | 68.15                                        | 58.12                                | 73.09                                   | 47                                      |
| GUATA<br>PE   | 1989       | 59                                 | 33.07                                | 47.23                              | 50.24                              | 45.69                             | 45.38                              | 24.4                               | 38.49                               | 63.65                                        | 57.68                                | 52.67                                   | 31.75                                   |
| GUATA<br>PE   | 1990       | 26.63                              | 22.28                                | 19.31                              | 34.41                              | 27.46                             | 34.56                              | 28.49                              | 32.08                               | 49.59                                        | 77.74                                | 56.41                                   | 39.84                                   |
| GUATA<br>PE   | 1991       | 24.95                              | 21.87                                | 22.93                              | 32.76                              | 40.07                             | 52.74                              | 23.43                              | 16.36                               | 21.72                                        | 32.4                                 | 44.99                                   | 32.61                                   |
| GUATA<br>PE   | 1992       | 21.33                              | 20.76                                | 22.67                              | 27.98                              | 42.19                             | 24.04                              | 20.84                              | 30.46                               | 43.08                                        | 35.63                                | 30.36                                   | 34.31                                   |
| GUATA<br>PE   | 1993       | 28.91                              | 14.12                                | 23.56                              | 36.2                               | 34.88                             | 15.57                              | 24.2                               | 25.44                               | 59.8                                         | 53.75                                | 37.05                                   | 30.9                                    |
| GUATA<br>PE   | 1994       | 26.54                              | 28.19                                | 34.12                              | 47.79                              | 46.86                             | 31.65                              | 33                                 | 31.78                               | 36.38                                        | 42.18                                | 49.33                                   | 40.44                                   |
| GUATA<br>PE   | 1995       | 38.19                              | 30.47                                | 36.5                               | 57.67                              | 52.81                             | 53.27                              | 36.75                              | 46.16                               | 46.9                                         | 51.28                                | 53.15                                   | 44.29                                   |
| GUATA<br>PE   | 1996       | 31.32                              | 35.41                                | 41.99                              | 59.23                              | 58.25                             | 46.39                              | 39                                 | 37.35                               | 38.47                                        | 63.01                                | 45.92                                   | 34.21                                   |
| GUATA<br>PE   | 1997       | 27.38                              | 28.32                                | 34.92                              | 42.35                              | 26.06                             | 30.1                               | 16.41                              | 17                                  | 40.73                                        | 31.32                                | 32.7                                    | 18.53                                   |
| GUATA<br>PE   | 1998       | 16.8                               | 20.5                                 | 15.5                               | 25.6                               | 37.4                              | 21.8                               | 27.1                               | 27.5                                | 37.5                                         | 50.7                                 | 49.3                                    | 44.2                                    |
| GUATA<br>PE   | 1999       | 42.9                               | 42.5                                 | 34.2                               | 46.2                               | 41.7                              | 44.1                               | 32.5                               | 33.1                                | 49.9                                         | 58.5                                 | 46.7                                    | 39.2                                    |
| GUATA<br>PE   | 2000       | 21.3                               | 25.2                                 | 27.9                               | 30.7                               | 49.6                              | 48.8                               | 37.4                               | 33.9                                | 49.9                                         | 52.9                                 | 44.8                                    | 32.1                                    |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| GUATA<br>PE   | 2001       | 22.36                              | 15.36                                | 23.69                              | 24.35                              | 38.2                              | 26.75                              | 33.25                              | 15.88                               | 35.03                                        | 49.54                                | 40.65                                   | 32.86                                   |
| GUATA<br>PE   | 2002       | 24.03                              | 21.4                                 | 23.51                              | 36.49                              | 24.05                             | 33.47                              | 20.68                              | 19.54                               | 35.81                                        | 37.14                                | 29.46                                   | 28.38                                   |
| GUATA<br>PE   | 2003       | 13.31                              | 16.41                                | 22.32                              | 42.23                              | 43.25                             | 51.98                              | 29.24                              | 28.49                               | 32                                           | 40.92                                | 34.14                                   | 37.46                                   |
| GUATA<br>PE   | 2004       | 25.31                              | 18.8                                 | 26.37                              | 36.37                              | 39.64                             | 21.37                              | 36.43                              | 24.56                               | 45.79                                        | 43.62                                | 54.81                                   | 34.4                                    |
| GUATA<br>PE   | 2005       | 23.94                              | 14.85                                | 16.41                              | 32.8                               | 43.57                             | 49.36                              | 31.3                               | 28.42                               | 34.95                                        | 41.92                                | 59.89                                   | 27.53                                   |
| GUATA<br>PE   | 2006       | 27.04                              | 28.89                                | 41.75                              | 42.05                              | 44.9                              | 29                                 | 22.46                              | 26.43                               | 33.09                                        | 50.33                                | 57.99                                   | 42.16                                   |
| GUATA<br>PE   | 2007       | 32.01                              | 17.7                                 | 28.29                              | 36.55                              | 53.91                             | 35.06                              | 33.54                              | 44.61                               | 61.37                                        | 68.76                                | 45.46                                   | 36.33                                   |
| GUATA<br>PE   | 2008       | 30.42                              | 30.74                                | 38.14                              | 43.04                              | 54.42                             | 37.99                              | 51.03                              | 48.98                               | 44.73                                        | 56.29                                | 64.27                                   | 35.68                                   |
| GUATA<br>PE   | 2009       | 49.56                              | 37.57                                | 44.43                              | 35.3                               | 40.07                             | 36.48                              | 22.97                              | 35.97                               | 32.2                                         | 37.6                                 | 33.06                                   | 31.64                                   |
| GUATA<br>PE   | 2010       | 14.87                              | 13.75                                | 19.08                              | 28.58                              | 56.75                             | 40.77                              | 43.61                              | 48.17                               | 57.27                                        | 58.91                                | 74.96                                   | 49.64                                   |
| GUATA<br>PE   | 2011       | 32.97                              | 29.38                                | 48.67                              | 67.62                              | 50.57                             | 46.51                              | 40.76                              | 51.68                               | 39.52                                        | 56.14                                | 55.58                                   | 58.83                                   |
| GUATA<br>PE   | 2012       | 43.61                              | 26.44                                | 36.88                              | 56.15                              | 59.91                             | 29.29                              | 25.75                              | 27.26                               | 29.64                                        | 48.38                                | 45.43                                   | 32.07                                   |
| GUATA<br>PE   | 2013       | 23.5                               | 26.65                                | 27.8                               | 24.28                              | 45.26                             | 33.18                              | 28.13                              | 57.27                               | 46.27                                        | 41.73                                | 52.72                                   | 39.39                                   |
| GUATA<br>PE   | 2014       | 28.37                              | 39.88                                | 31.01                              | 32.49                              | 38.19                             | 31.6                               | 19.9                               | 23.88                               | 31.75                                        | 56.42                                | 40.5                                    | 29.03                                   |
| GUATA<br>PE   | 2015       | 24.03                              | 28.04                                | 31.4                               | 48.59                              | 37.75                             | 22.91                              | 37.78                              | 35.38                               | 36.28                                        | 30.79                                | 38.23                                   | 22.87                                   |
| GUATA<br>PE   | 2016       | 14.2                               | 15.33                                | 14.78                              | 29.58                              | 25.94                             | 15.74                              | 22.28                              | 29.86                               | 54.73                                        | 55.95                                | 37.34                                   | 40.09                                   |
| GUATA<br>PE   | 2017       | 40.39                              | 22.92                                | 41.29                              | 39.77                              | 53.56                             | 53.89                              | 34.68                              | 38.18                               | 49                                           | 45                                   | 62.43                                   | 47.82                                   |

| Nombre        | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|---------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| GUADA<br>LUPE | 1937 |                           |                             |                           |                           |                          |                           |                           |                            |                                    | 20.88                       | 22.88                          | 22.69                          |
| GUADA<br>LUPE | 1938 | 12.68                     | 10.68                       | 13.25                     | 27.74                     | 30.6                     | 37.08                     | 33.56                     | 41.56                      | 31.27                              | 29.36                       | 28.03                          | 22.12                          |
| GUADA<br>LUPE | 1939 | 14.49                     | 10.49                       | 11.73                     | 21.26                     | 21.26                    | 25.17                     | 24.6                      | 27.93                      | 29.93                              | 28.5                        | 24.02                          | 25.17                          |
| GUADA<br>LUPE | 1940 | 12.87                     | 13.16                       | 12.11                     | 12.39                     | 16.02                    | 21.83                     | 12.3                      | 17.54                      | 23.83                              | 18.59                       | 18.02                          | 16.4                           |
| GUADA<br>LUPE | 1941 | 9.91                      | 10.2                        | 9.06                      | 16.59                     | 17.06                    | 15.63                     | 28.41                     | 40.42                      | 31.74                              | 27.45                       | 20.5                           | 22.4                           |
| GUADA<br>LUPE | 1942 | 12.39                     | 14.2                        | 15.44                     | 25.45                     | 32.32                    | 23.83                     | 27.36                     | 31.36                      | 26.79                              | 28.88                       | 26.03                          | 19.35                          |
| GUADA<br>LUPE | 1943 | 14.78                     | 12.87                       | 13.73                     | 26.41                     | 35.56                    | 28.12                     | 19.45                     | 20.78                      | 24.02                              | 31.17                       | 20.59                          | 14.11                          |
| GUADA<br>LUPE | 1944 | 11.25                     | 10.87                       | 11.34                     | 11.34                     | 29.27                    | 28.5                      | 17.83                     | 19.16                      | 27.93                              | 30.31                       | 27.65                          | 17.64                          |
| GUADA<br>LUPE | 1945 | 13.54                     | 11.82                       | 16.02                     | 19.45                     | 30.03                    | 22.59                     | 32.13                     | 46.62                      | 25.45                              | 35.94                       | 26.79                          | 23.36                          |
| GUADA<br>LUPE | 1946 | 17.64                     | 13.82                       | 18.11                     | 31.94                     | 28.79                    | 24.5                      | 22.69                     | 27.55                      | 31.84                              | 25.55                       | 22.5                           | 18.49                          |
| GUADA<br>LUPE | 1947 | 19.54                     | 15.06                       | 13.16                     | 20.21                     | 25.17                    | 30.22                     | 27.45                     | 22.69                      | 31.84                              | 29.46                       | 21.74                          | 17.54                          |
| GUADA<br>LUPE | 1948 | 16.78                     | 11.63                       | 12.11                     | 22.4                      | 24.6                     | 29.27                     | 19.45                     | 22.5                       | 23.64                              | 23.45                       | 21.74                          | 16.49                          |
| GUADA<br>LUPE | 1949 | 11.92                     | 9.63                        | 12.3                      | 15.92                     | 25.36                    | 26.98                     | 31.65                     | 33.27                      | 27.17                              | 26.41                       | 23.17                          | 19.83                          |
| GUADA<br>LUPE | 1950 | 16.02                     | 15.73                       | 15.06                     | 13.44                     | 24.98                    | 35.08                     | 32.03                     | 41.85                      | 27.65                              | 31.08                       | 28.98                          | 25.93                          |
| GUADA<br>LUPE | 1951 | 18.49                     | 23.55                       | 17.16                     | 26.5                      | 26.88                    | 27.65                     | 30.98                     | 28.41                      | 36.03                              | 24.4                        | 22.02                          | 19.35                          |
| GUADA<br>LUPE | 1952 | 12.68                     | 10.96                       | 9.34                      | 15.06                     | 23.07                    | 24.5                      | 31.17                     | 35.27                      | 32.51                              | 30.6                        | 26.31                          | 20.5                           |
| GUADA<br>LUPE | 1953 | 17.45                     | 13.73                       | 13.54                     | 19.07                     | 30.89                    | 24.88                     | 22.5                      | 15.16                      | 18.68                              | 17.25                       | 20.69                          | 14.87                          |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| GUADA<br>LUPE | 1954       | 14.91                              | 11.79                                | 12.24                              | 26.47                              | 30.14                             | 34.15                              | 36.82                              | 28.14                               | 31.81                                        | 41.05                                | 30.14                                   | 20.36                                   |
| GUADA<br>LUPE | 1955       | 17.58                              | 14.79                                | 18.91                              | 24.25                              | 31.37                             | 28.81                              | 32.7                               | 30.81                               | 31.26                                        | 39.93                                | 32.26                                   | 20.13                                   |
| GUADA<br>LUPE | 1956       | 16.8                               | 17.13                                | 18.02                              | 23.92                              | 40.16                             | 45.38                              | 28.37                              | 37.71                               | 31.59                                        | 35.82                                | 33.82                                   | 22.25                                   |
| GUADA<br>LUPE | 1957       | 14.91                              | 17.69                                | 12.68                              | 16.46                              | 24.25                             | 25.25                              | 25.14                              | 27.59                               | 25.92                                        | 28.03                                | 22.36                                   | 17.46                                   |
| GUADA<br>LUPE | 1958       | 11.68                              | 10.01                                | 11.12                              | 10.46                              | 22.02                             | 14.35                              | 13.01                              | 23.58                               | 14.35                                        | 18.24                                | 14.02                                   | 14.13                                   |
| GUADA<br>LUPE | 1959       | 9.9                                | 8.01                                 | 10.23                              | 13.68                              | 20.13                             | 25.92                              | 32.7                               | 25.7                                | 35.15                                        | 37.15                                | 34.48                                   | 21.69                                   |
| GUADA<br>LUPE | 1960       | 16.02                              | 13.24                                | 10.57                              | 18.58                              | 23.25                             | 28.48                              | 27.92                              | 28.03                               | 33.48                                        | 31.15                                | 27.25                                   | 19.55                                   |
| GUADA<br>LUPE | 1961       | 12.27                              | 10.43                                | 10.55                              | 14.82                              | 17.65                             | 24.95                              | 23.83                              | 20.3                                | 28.22                                        | 23.54                                | 30.82                                   | 18.09                                   |
| GUADA<br>LUPE | 1962       | 13.59                              | 11.77                                | 12.67                              | 15.71                              | 31.91                             | 31.16                              | 29.53                              | 30.42                               | 34.29                                        | 26.14                                | 24.92                                   | 14.81                                   |
| GUADA<br>LUPE | 1963       | 11.61                              | 12.4                                 | 15.34                              | 23.47                              | 26.07                             | 22.24                              | 40.99                              | 29.01                               | 26.34                                        | 27.03                                | 26.77                                   | 12.87                                   |
| GUADA<br>LUPE | 1964       | 10.8                               | 10.37                                | 11.31                              | 21.42                              | 18.22                             | 18.85                              | 33.03                              | 25.05                               | 31.57                                        | 28.19                                | 23.23                                   | 15.94                                   |
| GUADA<br>LUPE | 1965       | 12.2                               | 10.3                                 | 11.38                              | 15.05                              | 24.74                             | 19.77                              | 18.26                              | 22.4                                | 31.01                                        | 26.76                                | 23.75                                   | 15.62                                   |
| GUADA<br>LUPE | 1966       | 15.22                              | 11                                   | 11.99                              | 16.08                              | 13.83                             | 24.18                              | 17.98                              | 21.19                               | 21.52                                        | 21.51                                | 19.48                                   | 18.24                                   |
| GUADA<br>LUPE | 1967       | 13.03                              | 11.88                                | 11.05                              | 21.88                              | 33.42                             | 36.89                              | 33.34                              | 23.17                               | 26.5                                         | 20.63                                | 15.02                                   | 11.85                                   |
| GUADA<br>LUPE | 1968       | 10.01                              | 8.62                                 | 12.53                              | 15.07                              | 20.56                             | 26.3                               | 27.56                              | 25.98                               | 30.99                                        | 26.63                                | 23.99                                   | 15.22                                   |
| GUADA<br>LUPE | 1969       | 12.12                              | 11.46                                | 10.59                              | 17.53                              | 18.95                             | 15.32                              | 11.71                              | 28.52                               | 30.8                                         | 35.68                                | 26.79                                   | 21.34                                   |
| GUADA<br>LUPE | 1970       | 22.33                              | 18.12                                | 20.03                              | 25.58                              | 32.61                             | 30.49                              | 28.01                              | 26.46                               | 37.73                                        | 43.72                                | 35.18                                   | 27.07                                   |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| GUADA<br>LUPE | 1971       | 26.66                              | 25.6                                 | 29.33                              | 24.46                              | 33.4                              | 34.59                              | 40.09                              | 48.58                               | 36.96                                        | 37.23                                | 26.26                                   | 17.4                                    |
| GUADA<br>LUPE | 1972       | 18.11                              | 13.75                                | 13.93                              | 22.55                              | 37.58                             | 33.52                              | 25.57                              | 32.08                               | 32.08                                        | 25.02                                | 21.35                                   | 17.45                                   |
| GUADA<br>LUPE | 1973       | 11.48                              | 9.77                                 | 11.49                              | 11.58                              | 23.46                             | 26.53                              | 22.99                              | 23.6                                | 33.47                                        | 27.07                                | 30.39                                   | 21.94                                   |
| GUADA<br>LUPE | 1974       | 14.49                              | 12.98                                | 13.36                              | 17.09                              | 31.09                             | 23.53                              | 25.5                               | 30.99                               | 37.76                                        | 35.58                                | 31.34                                   | 16.72                                   |
| GUADA<br>LUPE | 1975       | 12.71                              | 11.18                                | 13.97                              | 15.51                              | 25.32                             | 37.58                              | 40.15                              | 40.27                               | 39.86                                        | 44.64                                | 35.42                                   | 27.15                                   |
| GUADA<br>LUPE | 1976       | 17.6                               | 13.87                                | 16.07                              | 26.23                              | 32.25                             | 26.72                              | 21.22                              | 27.06                               | 25.15                                        | 29.01                                | 21.77                                   | 13.04                                   |
| GUADA<br>LUPE | 1977       | 10.52                              | 10.37                                | 9.3                                | 10.65                              | 16.9                              | 26.7                               | 31.94                              | 31.41                               | 24.95                                        | 27                                   | 22.37                                   | 15.8                                    |
| GUADA<br>LUPE | 1978       | 13.27                              | 12.34                                | 12.22                              | 23.43                              | 23.8                              | 32.57                              | 27.07                              | 20.33                               | 25.25                                        | 26.66                                | 21.29                                   | 19.61                                   |
| GUADA<br>LUPE | 1979       | 12.58                              | 10.7                                 | 10.42                              | 16.67                              | 19.36                             | 25.44                              | 13.39                              | 17.83                               | 21.59                                        | 31.57                                | 30.02                                   | 17.99                                   |
| GUADA<br>LUPE | 1980       | 13.19                              | 11.16                                | 10.07                              | 10.19                              | 18.84                             | 24.99                              | 26.69                              | 26.07                               | 20.75                                        | 29.21                                | 29.4                                    | 17.73                                   |
| GUADA<br>LUPE | 1981       | 11.98                              | 11.33                                | 11.15                              | 16.43                              | 38.09                             | 35.25                              | 37.4                               | 22.64                               | 24.65                                        | 26.62                                | 22.88                                   | 15.78                                   |
| GUADA<br>LUPE | 1982       | 12.84                              | 14.63                                | 13.99                              | 22.83                              | 31.48                             | 22.27                              | 23.66                              | 24.46                               | 24.68                                        | 33.72                                | 20.52                                   | 15.52                                   |
| GUADA<br>LUPE | 1983       | 9.48                               | 9.01                                 | 11.11                              | 17.83                              | 30.4                              | 23.46                              | 35.21                              | 27.82                               | 32.97                                        | 27.55                                | 19.18                                   | 19.7                                    |
| GUADA<br>LUPE | 1984       | 14.15                              | 15.15                                | 9.7                                | 11.99                              | 19.05                             | 30.33                              | 25.35                              | 23.16                               | 34.46                                        | 36.14                                | 33.3                                    | 20.16                                   |
| GUADA<br>LUPE | 1985       | 14.06                              | 11.01                                | 14.48                              | 13.07                              | 21.16                             | 16.13                              | 17.59                              | 31.39                               | 33.47                                        | 25.44                                | 18.95                                   | 15.54                                   |
| GUADA<br>LUPE | 1986       | 12.68                              | 12.8                                 | 12.45                              | 18.98                              | 19.47                             | 24.85                              | 17.43                              | 19.14                               | 17.82                                        | 28.27                                | 17.06                                   | 12.53                                   |
| GUADA<br>LUPE | 1987       | 9.11                               | 8.05                                 | 8.26                               | 13.43                              | 18.93                             | 15.46                              | 16.3                               | 22.58                               | 33.72                                        | 28.21                                | 21.19                                   | 16.4                                    |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| GUADA<br>LUPE | 1988       | 11.09                              | 10.9                                 | 9.4                                | 11.91                              | 17.46                             | 15.85                              | 18.24                              | 28.42                               | 28.27                                        | 29.13                                | 28.84                                   | 18.75                                   |
| GUADA<br>LUPE | 1989       | 17.49                              | 15.09                                | 15.77                              | 16.08                              | 19.15                             | 30.52                              | 23.36                              | 31.12                               | 33.53                                        | 36.89                                | 22.91                                   | 19.18                                   |
| GUADA<br>LUPE | 1990       | 13.34                              | 14.18                                | 13.7                               | 17.09                              | 25.18                             | 26.63                              | 25.19                              | 17.19                               | 21.59                                        | 33.57                                | 25.68                                   | 17.17                                   |
| GUADA<br>LUPE | 1991       | 19.24                              | 16.63                                | 18.9                               | 20.57                              | 30.4                              | 27.19                              | 32.64                              | 22.88                               | 18.84                                        | 24.32                                | 22.01                                   | 18.55                                   |
| GUADA<br>LUPE | 1992       | 14.36                              | 13.06                                | 12.91                              | 14.2                               | 20.05                             | 17.65                              | 20.79                              | 27.4                                | 31.92                                        | 24.92                                | 21.35                                   | 15.73                                   |
| GUADA<br>LUPE | 1993       | 13.83                              | 11.61                                | 12.44                              | 8.72                               | 10.9                              | 18.02                              | 26.96                              | 32.02                               | 40.43                                        | 41.51                                | 29.18                                   | 28.71                                   |
| GUADA<br>LUPE | 1994       | 16.7                               | 16.51                                | 15.15                              | 26.1                               | 33.98                             | 36.19                              | 24.13                              | 51.71                               | 36.11                                        | 23.11                                | 34.82                                   | 20.42                                   |
| GUADA<br>LUPE | 1995       | 12.97                              | 11                                   | 11.95                              | 17.22                              | 23.3                              | 27.35                              | 37.13                              | 33.79                               | 28.52                                        | 27.2                                 | 16.89                                   | 26.73                                   |
| GUADA<br>LUPE | 1996       | 16.79                              | 18.13                                | 19.86                              | 24.48                              | 41.07                             | 29.32                              | 35.16                              | 32.4                                | 33.87                                        | 31.79                                | 28.93                                   | 20.1                                    |
| GUADA<br>LUPE | 1997       | 12.04                              | 17.22                                | 13.49                              | 24.88                              | 16.9                              | 30.33                              | 10.66                              | 10.14                               | 18.54                                        | 12.24                                | 11.16                                   | 7.63                                    |
| GUADA<br>LUPE | 1998       | 6.33                               | 6.71                                 | 7.07                               | 14.2                               | 16.61                             | 29                                 | 37.8                               | 25.55                               | 37.89                                        | 24.92                                | 21.98                                   | 24.1                                    |
| GUADA<br>LUPE | 1999       | 16.7                               | 20.13                                | 20.45                              | 30.07                              | 33.73                             | 34.99                              | 33.3                               | 32.24                               | 34.35                                        | 34.41                                | 26.14                                   | 19.14                                   |
| GUADA<br>LUPE | 2000       | 13.4                               | 13.95                                | 12.67                              | 14.66                              | 26.08                             | 31.65                              | 38.17                              | 35.6                                | 36.1                                         | 27.5                                 | 21.19                                   | 20.13                                   |
| GUADA<br>LUPE | 2001       | 14.46                              | 11.79                                | 13.47                              | 17.69                              | 33.62                             | 34.85                              | 30.36                              | 22.4                                | 29.77                                        | 25.09                                | 30.16                                   | 26.56                                   |
| GUADA<br>LUPE | 2002       | 14.58                              | 12.1                                 | 11.76                              | 18.54                              | 23.89                             | 28.02                              | 14.85                              | 14.74                               | 17.68                                        | 15.35                                | 14.12                                   | 13.78                                   |
| GUADA<br>LUPE | 2003       | 8.9                                | 10.03                                | 10.43                              | 19.91                              | 33.82                             | 30.78                              | 20.52                              | 23.17                               | 23.2                                         | 26.54                                | 23.27                                   | 20.02                                   |
| GUADA<br>LUPE | 2004       | 13.66                              | 11.16                                | 11.91                              | 15.4                               | 23.69                             | 21.31                              | 31.35                              | 20.62                               | 27.81                                        | 23.8                                 | 26.7                                    | 16.56                                   |

| Nombre         | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|----------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| GUADA<br>LUPE  | 2005 | 12.7                      | 10.34                       | 10.05                     | 19.47                     | 20.63                    | 23.63                     | 16.94                     | 15.91                      | 20.45                              | 22.28                       | 29.14                          | 15.19                          |
| GUADA<br>LUPE  | 2006 | 11.61                     | 11.26                       | 13.79                     | 21.09                     | 31.46                    | 29.84                     | 17.69                     | 20.99                      | 29.99                              | 26.18                       | 30.59                          | 20.8                           |
| GUADA<br>LUPE  | 2007 | 15.4                      | 10.6                        | 10.97                     | 24.62                     | 39.3                     | 32.27                     | 28.01                     | 39.46                      | 31.52                              | 38.04                       | 27.91                          | 18.37                          |
| GUADA<br>LUPE  | 2008 | 13.84                     | 14.84                       | 12.76                     | 12.4                      | 18.04                    | 32.91                     | 43.36                     | 28.49                      | 33.37                              | 35.97                       | 30.91                          | 17.86                          |
| GUADA<br>LUPE  | 2009 | 15.71                     | 17.78                       | 18.41                     | 21.39                     | 23.3                     | 32.99                     | 24.22                     | 24.79                      | 19.07                              | 19.33                       | 21.48                          | 12.86                          |
| GUADA<br>LUPE  | 2010 | 9.73                      | 7.98                        | 9.61                      | 13.88                     | 25.77                    | 33.06                     | 32.27                     | 33.55                      | 41.81                              | 29.48                       | 31.26                          | 21.72                          |
| GUADA<br>LUPE  | 2011 | 13.29                     | 13.56                       | 19.56                     | 32.81                     | 25.64                    | 33.09                     | 28.06                     | 27.32                      | 25.8                               | 31.16                       | 29                             | 22.67                          |
| GUADA<br>LUPE  | 2012 | 16.24                     | 12.05                       | 13.76                     | 31.84                     | 44.97                    | 25.73                     | 22.71                     | 26.99                      | 15.02                              | 23.34                       | 16.41                          | 11.76                          |
| GUADA<br>LUPE  | 2013 | 9.55                      | 9.71                        | 10.19                     | 10.81                     | 23.75                    | 22.84                     | 14.79                     | 32.17                      | 27.89                              | 21.87                       | 20.22                          | 15.21                          |
| GUADA<br>LUPE  | 2014 | 11.45                     | 13.01                       | 11.36                     | 17.88                     | 19.41                    | 27.81                     | 15.01                     | 16.97                      | 21.94                              | 25.75                       | 22.57                          | 15.09                          |
| GUADA<br>LUPE  | 2015 | 11.91                     | 13.69                       | 10.24                     | 15.37                     | 30                       | 18.09                     | 22.11                     | 20.32                      | 15.64                              | 17.3                        | 14.51999<br>9999999<br>998     | 11.28                          |
| GUADA<br>LUPE  | 2016 | 8.83                      | 8.05                        | 7.8                       | 10.08                     | 13.72                    | 15.75                     | 19.14                     | 19.9                       | 22.9                               | 22.6                        | 21.19                          | 18.56                          |
| GUADA<br>LUPE  | 2017 | 13                        | 10.53                       | 13.34                     | 12.35                     | 22.71                    | 25.73                     | 17.62                     | 20.59                      | 24.51                              | 16.07                       | 15.91                          | 11.66                          |
| CONCEP<br>CION | 1955 | 6.1                       | 4.73                        | 5.15                      | 6.65                      | 8.78                     | 9.65                      | 10.7                      | 9.54                       | 10.49                              | 13.3                        | 10.42                          | 7.9                            |
| CONCEP<br>CION | 1956 | 7.25                      | 6.86                        | 6.11                      | 7.24                      | 10.06                    | 12.13                     | 8.54                      | 11.01                      | 9.46                               | 11.17                       | 10.98                          | 6.7                            |
| CONCEP<br>CION | 1957 | 5.17                      | 4.81                        | 3.77                      | 5.49                      | 7.53                     | 6.54                      | 6.09                      | 6.7                        | 7.01                               | 8.5                         | 6.99                           | 5.57                           |
| CONCEP<br>CION | 1958 | 3.93                      | 3.17                        | 3.52                      | 3.21                      | 5.78                     | 4.08                      | 3.8                       | 6.1                        | 3.96                               | 4.66                        | 3.79                           | 3.79                           |

| Nombre     | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| CONCEPCION | 1959 | 2.57                      | 2.25                        | 2.47                      | 3.13                      | 4.8                      | 6.01                      | 7                         | 6.12                       | 8.21                               | 8.25                        | 8.44                           | 5.46                           |
| CONCEPCION | 1960 | 4.53                      | 3.94                        | 3.39                      | 5.22                      | 5.94                     | 7.37                      | 7.64                      | 7.68                       | 8.79                               | 7.71                        | 6.97                           | 7.54                           |
| CONCEPCION | 1961 | 4.4                       | 3.92                        | 3.67                      | 5.7                       | 5.15                     | 7.85                      | 8.01                      | 6.49                       | 8.68                               | 7.45                        | 9.47                           | 5.93                           |
| CONCEPCION | 1962 | 4.66                      | 3.97                        | 4.23                      | 4.44                      | 8.58                     | 7.88                      | 7.96                      | 9.04                       | 8.68                               | 8.32                        | 8.94                           | 5.55                           |
| CONCEPCION | 1963 | 4.63                      | 4.87                        | 5.07                      | 7.25                      | 8.33                     | 7.76                      | 11.1                      | 8.19                       | 8.09                               | 9.03                        | 8.61                           | 5.85                           |
| CONCEPCION | 1964 | 4.36                      | 4.16                        | 4.17                      | 5.88                      | 6.2                      | 7.9                       | 9.13                      | 8.77                       | 8.95                               | 8.08                        | 7.75                           | 5.79                           |
| CONCEPCION | 1965 | 4.82                      | 4.04                        | 3.87                      | 5.25                      | 6.98                     | 5.99                      | 5.9                       | 7.43                       | 9.37                               | 7.89                        | 7.82                           | 5.35                           |
| CONCEPCION | 1966 | 4.95                      | 3.71                        | 3.95                      | 4.74                      | 5.82                     | 8.73                      | 7.14                      | 8.85                       | 9.19                               | 8.67                        | 8.53                           | 7.23                           |
| CONCEPCION | 1967 | 5.23                      | 4.35                        | 3.87                      | 6.85                      | 9.58                     | 13.67                     | 13.72                     | 9.34                       | 8.07                               | 7.62                        | 6.5                            | 4.78                           |
| CONCEPCION | 1968 | 4.28                      | 3.72                        | 3.88                      | 4.85                      | 6.39                     | 9.23                      | 8.34                      | 9.65                       | 9.77                               | 9.1                         | 7.96                           | 5.85                           |
| CONCEPCION | 1969 | 4.43                      | 3.7                         | 3.22                      | 7.01                      | 7.48                     | 5.24                      | 4.5                       | 10.38                      | 9.44                               | 10.93                       | 12.43                          | 6.26                           |
| CONCEPCION | 1970 | 5.45                      | 4.33                        | 4.15                      | 6.09                      | 9.48                     | 8.1                       | 7.72                      | 7.66                       | 11.7                               | 13.62                       | 11.88                          | 8.8                            |
| CONCEPCION | 1971 | 8.47                      | 8.18                        | 8.73                      | 7.73                      | 12.15                    | 10.7                      | 13.57                     | 16.43                      | 11.67                              | 11.41                       | 9.09                           | 5.82                           |
| CONCEPCION | 1972 | 5.97                      | 4.95                        | 4.63                      | 7.04                      | 11.4                     | 9.96                      | 8.04                      | 8.93                       | 8.17                               | 9.92                        | 6.7                            | 5.86                           |
| CONCEPCION | 1973 | 4.29                      | 3.75                        | 3.59                      | 4.45                      | 6.28                     | 6.21                      | 6.66                      | 7.07                       | 8.95                               | 8.23                        | 9.34                           | 7.4                            |
| CONCEPCION | 1974 | 5.92                      | 5.2                         | 4.94                      | 6.05                      | 7.88                     | 6.68                      | 7.94                      | 9.04                       | 10.63                              | 10.45                       | 10.04                          | 6.55                           |
| CONCEPCION | 1975 | 5.26                      | 4.92                        | 5.56                      | 5.59                      | 7.66                     | 10.35                     | 11.09                     | 13.41                      | 13.59                              | 13.58                       | 12.98                          | 10.71                          |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| CONCEPCION    | 1976       | 6.47                               | 5.71                                 | 5.84                               | 8.16                               | 10.02                             | 9.29                               | 6.62                               | 9.37                                | 6.7                                          | 10.39                                | 8.07                                    | 4.76                                    |
| CONCEPCION    | 1977       | 3.71                               | 3.51                                 | 3.11                               | 3.86                               | 5.35                              | 8.77                               | 8.16                               | 9.34                                | 7.81                                         | 7.26                                 | 6.34                                    | 5.27                                    |
| CONCEPCION    | 1978       | 3.78                               | 3.43                                 | 3.67                               | 8.19                               | 6.09                              | 9.17                               | 8.57                               | 6.87                                | 7.54                                         | 8.23                                 | 8.03                                    | 6.86                                    |
| CONCEPCION    | 1979       | 4.32                               | 4.11                                 | 3.71                               | 5.27                               | 6.95                              | 10.27                              | 5.15                               | 6.14                                | 7.05                                         | 10.87                                | 11.41                                   | 7.04                                    |
| CONCEPCION    | 1980       | 5.03                               | 4.75                                 | 4.27                               | 4.83                               | 6.29                              | 9.08                               | 8.39                               | 7.43                                | 6.22                                         | 9.29                                 | 9.04                                    | 5.72                                    |
| CONCEPCION    | 1981       | 4.2                                | 4.27                                 | 4.24                               | 5.81                               | 12.76                             | 10.98                              | 10.69                              | 7.53                                | 9.24                                         | 9.69                                 | 8.34                                    | 5.56                                    |
| CONCEPCION    | 1982       | 4.57                               | 5.59                                 | 5.72                               | 10.13                              | 12.32                             | 8.48                               | 9.33                               | 7.88                                | 7.32                                         | 9.97                                 | 8.12                                    | 7.01                                    |
| CONCEPCION    | 1983       | 3.87                               | 4.14                                 | 3.91                               | 8.02                               | 11.93                             | 7.65                               | 13.6                               | 9.02                                | 12.69                                        | 10.24                                | 8.51                                    | 8.3                                     |
| CONCEPCION    | 1984       | 5.27                               | 5.14                                 | 3.37                               | 4.7                                | 8.95                              | 13.3                               | 9.46                               | 12                                  | 17.82                                        | 14.26                                | 14.53                                   | 8.9                                     |
| CONCEPCION    | 1985       | 5.47                               | 4.68                                 | 5.96                               | 6.31                               | 10.7                              | 8.01                               | 9.71                               | 12.94                               | 13.88                                        | 10.91                                | 8.39                                    | 8.26                                    |
| CONCEPCION    | 1986       | 5.96                               | 5.34                                 | 5                                  | 9.22                               | 7.08                              | 9.72                               | 7.4                                | 6.75                                | 6.21                                         | 12.06                                | 6.91                                    | 5.95                                    |
| CONCEPCION    | 1987       | 2.15                               | 2.12                                 | 1.33                               | 5.36                               | 10.03                             | 8.21                               | 13.41                              | 7.23                                | 12.6                                         | 13.44                                | 7.71                                    | 6.12                                    |
| CONCEPCION    | 1988       | 4.36                               | 5.5                                  | 4.15                               | 3.84                               | 5.12                              | 7.96                               | 9.64                               | 16.95                               | 10.03                                        | 4.84                                 | 7.95                                    | 3.49                                    |
| CONCEPCION    | 1989       | 2.21                               | 1.75                                 | 5.83                               | 5.19                               | 8.56                              | 10.84                              | 10.47                              | 12.66                               | 10.85                                        | 11.72                                | 7.17                                    | 6.46                                    |
| CONCEPCION    | 1990       | 4.24                               | 4.53                                 | 3.81                               | 5.08                               | 9.08                              | 8.5                                | 8.5                                | 5.97                                | 5.51                                         | 11.29                                | 10.28                                   | 6.51                                    |
| CONCEPCION    | 1991       | 5.51                               | 5.24                                 | 5.77                               | 5.78                               | 17.37                             | 14.16                              | 16.05                              | 6.49                                | 5.11                                         | 6.4                                  | 7.47                                    | 5.29                                    |
| CONCEPCION    | 1992       | 2.19                               | 2.28                                 | 4.11                               | 2.94                               | 4.78                              | 3.48                               | 4.34                               | 6.4                                 | 8.94                                         | 6.02                                 | 4.89                                    | 5.03                                    |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| CONCEPCION    | 1993       | 4.71                               | 3.71                                 | 5.04                               | 5.36                               | 7.91                              | 5.92                               | 7.34                               | 8.28                                | 11                                           | 7.64                                 | 7.93                                    | 7.58                                    |
| CONCEPCION    | 1994       | 8.65                               | 7.15                                 | 5.07                               | 9.19                               | 10.01                             | 13.15                              | 10.17                              | 17.5                                | 12.33                                        | 12.85                                | 12.3                                    | 8.35                                    |
| CONCEPCION    | 1995       | 5.91                               | 4.23                                 | 3.94                               | 5.6                                | 7.95                              | 11.18                              | 14.53                              | 12.11                               | 12.58                                        | 11.78                                | 9.94                                    | 11.78                                   |
| CONCEPCION    | 1996       | 6                                  | 7.09                                 | 8.57                               | 9.06                               | 15.35                             | 11.81                              | 15.78                              | 14.06                               | 12.22                                        | 13.94                                | 13.02                                   | 8.48                                    |
| CONCEPCION    | 1997       | 6.47                               | 6.78                                 | 6.63                               | 8.32                               | 6.8                               | 8.15                               | 5.23                               | 4.94                                | 8.5                                          | 4.58                                 | 5.58                                    | 3.33                                    |
| CONCEPCION    | 1998       | 2.82                               | 3.36                                 | 4.02                               | 5.83                               | 6.84                              | 8.35                               | 13.91                              | 10.77                               | 12.46                                        | 9.37                                 | 9.09                                    | 8.76                                    |
| CONCEPCION    | 1999       | 5.41                               | 7.41                                 | 7.76                               | 11.13                              | 14.12                             | 14.44                              | 12.49                              | 9.84                                | 11.93                                        | 13.84                                | 11.8                                    | 8.43                                    |
| CONCEPCION    | 2000       | 5.68                               | 6.23                                 | 4.63                               | 4.78                               | 9                                 | 10.23                              | 15.54                              | 12.96                               | 16.93                                        | 13.61                                | 9.95                                    | 8.76                                    |
| CONCEPCION    | 2001       | 6.8                                | 6.38                                 | 6.5                                | 6.49                               | 10.94                             | 12.72                              | 12.81                              | 7.94                                | 10.53                                        | 9.06                                 | 10.85                                   | 9.81                                    |
| CONCEPCION    | 2002       | 5.88                               | 4.91                                 | 4.18                               | 4.56                               | 5.56                              | 7.45                               | 4.94                               | 3.94                                | 4.07                                         | 4.7                                  | 4.18                                    | 4.21                                    |
| CONCEPCION    | 2003       | 2.94                               | 3.22                                 | 3.42                               | 4.69                               | 6.24                              | 7.51                               | 6.07                               | 5.84                                | 5.95                                         | 9.54                                 | 7.79                                    | 6.53                                    |
| CONCEPCION    | 2004       | 4.66                               | 4.15                                 | 5.57                               | 6.89                               | 9.58                              | 8.16                               | 10.79                              | 8.7                                 | 10.15                                        | 9.4                                  | 12.51                                   | 7.85                                    |
| CONCEPCION    | 2005       | 7.46                               | 7.02                                 | 7.24                               | 8.19                               | 9.06                              | 10.22                              | 8.41                               | 8.27                                | 8.3                                          | 9.95                                 | 12.3                                    | 7.36                                    |
| CONCEPCION    | 2006       | 5.71                               | 6.03                                 | 6.46                               | 5.96                               | 14.04                             | 11.57                              | 8.76                               | 9.41                                | 12.22                                        | 11.36                                | 13.44                                   | 9.64                                    |
| CONCEPCION    | 2007       | 7.97                               | 6.78                                 | 5.74                               | 8.51                               | 14.31                             | 12.63                              | 13.18                              | 15.51                               | 13.68                                        | 17.06                                | 14.18                                   | 9.01                                    |
| CONCEPCION    | 2008       | 7.1                                | 6.91                                 | 6.45                               | 6.56                               | 8.07                              | 11.04                              | 14.98                              | 10.08                               | 11.58                                        | 14.69                                | 13.75                                   | 5.8                                     |
| CONCEPCION    | 2009       | 8.88                               | 7.67                                 | 5.56                               | 8                                  | 7.98                              | 9.58                               | 6.55                               | 7.61                                | 7.11                                         | 7.3                                  | 9.67                                    | 4.91                                    |

| Nombre     | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| CONCEPCION | 2010 | 3.44                      | 3.24                        | 3.22                      | 4.84                      | 8.68                     | 10.45                     | 13.5                      | 12.49                      | 15.63                              | 12.35                       | 12.92                          | 9.25                           |
| CONCEPCION | 2011 | 4.74                      | 4.9                         | 6.49                      | 12.27                     | 11.64                    | 11.58                     | 12.8                      | 12.92                      | 11.27                              | 15.09                       | 14.05                          | 9.26                           |
| CONCEPCION | 2012 | 7.36                      | 3.94                        | 4.98                      | 9.38                      | 9.13                     | 6.22                      | 7.51                      | 11.49                      | 6.34                               | 9.07                        | 6.51                           | 5.49                           |
| CONCEPCION | 2013 | 4.43                      | 3.92                        | 3.56                      | 3.95                      | 6.94                     | 6.52                      | 5.52                      | 10.09                      | 11.14                              | 8.96                        | 7.76                           | 7.03                           |
| CONCEPCION | 2014 | 5.33                      | 5.59                        | 4.63                      | 6.77                      | 7.33                     | 7.94                      | 5.37                      | 8.33                       | 7.02                               | 9.32                        | 10.49                          | 7.26                           |
| CONCEPCION | 2015 | 5.32                      | 5.14                        | 4.45                      | 5.25                      | 11.48                    | 7.49                      | 8.09                      | 7.89                       | 5.75                               | 5.79                        | 5.06                           | 3.82                           |
| CONCEPCION | 2016 | 3.84                      | 3.45                        | 3.37                      | 4.01                      | 4.74                     | 5.25                      | 5.6                       | 6.85                       | 6.8                                | 7.63                        | 9.08                           | 6.09                           |
| CONCEPCION | 2017 | 4.55                      | 3.61                        | 3.9                       | 3.36                      | 7.23                     | 8.2                       | 6.09                      | 6.15                       | 8.26                               | 6.38                        | 6.48                           | 4.38                           |
| TENCHE     | 1955 | 3.3                       | 2.35                        | 3.29                      | 4.13                      | 6.24                     | 5.96                      | 6.82                      | 5.54                       | 6.04                               | 7.68                        | 7.15                           | 6.03                           |
| TENCHE     | 1956 | 4.43                      | 4.34                        | 3.7                       | 4.41                      | 6.12                     | 6.66                      | 5.47                      | 7.7                        | 5.31                               | 7.67                        | 8.14                           | 6.33                           |
| TENCHE     | 1957 | 2.58                      | 2.72                        | 2.02                      | 3.48                      | 4.96                     | 4.89                      | 3.95                      | 3.85                       | 4.37                               | 4.67                        | 4.26                           | 4.19                           |
| TENCHE     | 1958 | 1.93                      | 1.64                        | 1.85                      | 1.83                      | 4.06                     | 2.59                      | 2.43                      | 3.78                       | 2.29                               | 2.94                        | 2.59                           | 2.09                           |
| TENCHE     | 1959 | 1.56                      | 1.22                        | 1.43                      | 1.85                      | 3.13                     | 4.75                      | 4.91                      | 4.28                       | 5.58                               | 5.57                        | 5.48                           | 3.04                           |
| TENCHE     | 1960 | 2.48                      | 2.1                         | 1.74                      | 3.46                      | 3.87                     | 5.5                       | 4.91                      | 5.44                       | 7.04                               | 5.5                         | 4.88                           | 5.55                           |
| TENCHE     | 1961 | 2.35                      | 1.88                        | 1.85                      | 3.6                       | 3.25                     | 6.17                      | 6.11                      | 4.49                       | 6.46                               | 5.14                        | 5.82                           | 3.74                           |
| TENCHE     | 1962 | 2.6                       | 2.2                         | 2.49                      | 2.65                      | 5.76                     | 5.17                      | 5.1                       | 6                          | 6.64                               | 5.3                         | 5.12                           | 3.46                           |
| TENCHE     | 1963 | 2.95                      | 3.08                        | 3.56                      | 4.88                      | 5.28                     | 4.68                      | 7.73                      | 5.77                       | 5.33                               | 5.45                        | 5.42                           | 3.15                           |
| TENCHE     | 1964 | 2.82                      | 2.75                        | 2.9                       | 4.54                      | 4.02                     | 4.11                      | 6.43                      | 5.14                       | 6.19                               | 5.63                        | 4.84                           | 3.65                           |
| TENCHE     | 1965 | 3.12                      | 2.74                        | 2.91                      | 3.51                      | 5.07                     | 4.28                      | 4.02                      | 4.7                        | 6.1                                | 5.4                         | 4.93                           | 3.61                           |
| TENCHE     | 1966 | 2.39                      | 1.72                        | 2.14                      | 2.36                      | 3.44                     | 5.73                      | 4.72                      | 5.19                       | 5.11                               | 5.27                        | 4.38                           | 5.6                            |
| TENCHE     | 1967 | 3.38                      | 2.68                        | 2.13                      | 4.18                      | 6.5                      | 10.48                     | 8.98                      | 5.86                       | 5.11                               | 4.39                        | 3.44                           | 2.42                           |
| TENCHE     | 1968 | 3.17                      | 2.59                        | 2.37                      | 3.19                      | 3.8                      | 5.4                       | 4.8                       | 5.77                       | 4.64                               | 5.75                        | 4.47                           | 3.43                           |
| TENCHE     | 1969 | 1.77                      | 2.2                         | 1.91                      | 4.64                      | 4.33                     | 2.86                      | 2.65                      | 6.86                       | 5.96                               | 6.64                        | 6.02                           | 3.08                           |
| TENCHE     | 1970 | 2.46                      | 2.89                        | 3.22                      | 4.13                      | 5.91                     | 4.8                       | 4.18                      | 4.4                        | 6.17                               | 8.71                        | 7.23                           | 4.82                           |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| TENCHE | 1971 | 4.52                      | 4.36                        | 5.1                       | 4.76                      | 6.13                     | 5.69                      | 7.69                      | 8.74                       | 7.33                               | 7.43                        | 5.23                           | 2.55                           |
| TENCHE | 1972 | 3.44                      | 2.09                        | 2.17                      | 3.39                      | 8.39                     | 7.7                       | 5.41                      | 6.09                       | 5.94                               | 5.38                        | 4.36                           | 3.46                           |
| TENCHE | 1973 | 2.77                      | 3.03                        | 2.63                      | 3.17                      | 3.85                     | 4.06                      | 3.93                      | 4.68                       | 5.39                               | 4.98                        | 5.67                           | 3.87                           |
| TENCHE | 1974 | 3.44                      | 2.8                         | 2.88                      | 4.01                      | 6.13                     | 4.44                      | 5.09                      | 6.54                       | 6.65                               | 7                           | 6.73                           | 3.37                           |
| TENCHE | 1975 | 2.13                      | 3.09                        | 2.59                      | 2.93                      | 4.02                     | 6.21                      | 6.42                      | 8.16                       | 8.3                                | 8.44                        | 7.02                           | 5.31                           |
| TENCHE | 1976 | 2.7                       | 2.67                        | 3.13                      | 4.15                      | 4.93                     | 4.42                      | 3.58                      | 5.28                       | 3.91                               | 4.97                        | 3.78                           | 2.55                           |
| TENCHE | 1977 | 2.15                      | 2.53                        | 2.02                      | 2.36                      | 3.31                     | 5.52                      | 4.42                      | 5.83                       | 4.33                               | 4.24                        | 3.31                           | 2.23                           |
| TENCHE | 1978 | 2.29                      | 2.64                        | 2.86                      | 4.74                      | 3.54                     | 5.85                      | 5.43                      | 4.22                       | 4.7                                | 4.51                        | 4.92                           | 4.36                           |
| TENCHE | 1979 | 2.69                      | 3.08                        | 2.43                      | 3.93                      | 4.55                     | 6.6                       | 2.95                      | 4                          | 3.92                               | 7.32                        | 6.75                           | 3.89                           |
| TENCHE | 1980 | 2.85                      | 4.58                        | 4.01                      | 3.68                      | 4.59                     | 6.13                      | 6.1                       | 4.96                       | 3.6                                | 6.27                        | 6.14                           | 3.86                           |
| TENCHE | 1981 | 3.35                      | 4.48                        | 4                         | 5.42                      | 8.81                     | 7.18                      | 7.65                      | 5.72                       | 6.37                               | 5.77                        | 4.05                           | 3.65                           |
| TENCHE | 1982 | 3.42                      | 4.48                        | 4.2                       | 6                         | 7.26                     | 5.72                      | 5.39                      | 4.56                       | 5.19                               | 5.83                        | 4.24                           | 3.9                            |
| TENCHE | 1983 | 2.49                      | 2.79                        | 2.23                      | 3.53                      | 5.4                      | 3.97                      | 7.97                      | 5.68                       | 6.98                               | 6.98                        | 4.76                           | 4.07                           |
| TENCHE | 1984 | 3.49                      | 3.62                        | 2.46                      | 3.8                       | 3.97                     | 5.65                      | 4.05                      | 5.32                       | 8.01                               | 6.37                        | 6.85                           | 4.64                           |
| TENCHE | 1985 | 3.52                      | 3.63                        | 4.34                      | 3.48                      | 5.44                     | 4.19                      | 5.58                      | 7.32                       | 6.74                               | 4.67                        | 3.36                           | 4.09                           |
| TENCHE | 1986 | 3.67                      | 4.04                        | 3.57                      | 6.18                      | 4.75                     | 5.5                       | 3.94                      | 4.1                        | 3.5                                | 5.98                        | 3.04                           | 3.1                            |
| TENCHE | 1987 | 2.58                      | 2.58                        | 2.63                      | 4.49                      | 5.06                     | 4.16                      | 5.41                      | 4.06                       | 5.79                               | 6.35                        | 4.58                           | 3.2                            |
| TENCHE | 1988 | 2.82                      | 2.97                        | 2.12                      | 2.91                      | 3.48                     | 4.36                      | 4.09                      | 6.19                       | 6.63                               | 5.36                        | 6.08                           | 3.95                           |
| TENCHE | 1989 | 3.29                      | 3.21                        | 3.64                      | 3.77                      | 5.18                     | 6.01                      | 5.76                      | 8.72                       | 7.6                                | 8.1                         | 4.83                           | 4.22                           |
| TENCHE | 1990 | 2.75                      | 2.84                        | 3.33                      | 3.55                      | 6.39                     | 5.33                      | 5.4                       | 4.03                       | 3.96                               | 7.58                        | 5.72                           | 4.64                           |
| TENCHE | 1991 | 2.77                      | 2.76                        | 2.69                      | 3                         | 5.31                     | 4.81                      | 4.94                      | 2.81                       | 3.33                               | 3.74                        | 3.82                           | 2.75                           |
| TENCHE | 1992 | 1.75                      | 1.77                        | 1.28                      | 1.78                      | 3.14                     | 2.05                      | 2.14                      | 3.16                       | 4.85                               | 2.96                        | 2.56                           | 2.68                           |
| TENCHE | 1993 | 2.18                      | 2.23                        | 2.1                       | 2.88                      | 4.32                     | 3.41                      | 4.68                      | 4.65                       | 6.08                               | 5.16                        | 4.67                           | 4.27                           |
| TENCHE | 1994 | 2.44                      | 2.82                        | 3.36                      | 4.6                       | 4.84                     | 6.91                      | 4.35                      | 9.53                       | 7.87                               | 6.6                         | 6.84                           | 3.21                           |
| TENCHE | 1995 | 2.43                      | 2.94                        | 3.18                      | 3.8                       | 3.76                     | 4.94                      | 5.5                       | 5.04                       | 4.42                               | 5.36                        | 3.37                           | 3.74                           |
| TENCHE | 1996 | 2.68                      | 3.25                        | 3.98                      | 4.6                       | 7.24                     | 6.52                      | 8.07                      | 6.32                       | 5.47                               | 6.1                         | 4.94                           | 2.79                           |
| TENCHE | 1997 | 2.29                      | 3.43                        | 3.43                      | 4.35                      | 3.19                     | 4.06                      | 2.54                      | 1.8                        | 3.35                               | 2.21                        | 3.07                           | 1.98                           |
| TENCHE | 1998 | 1.66                      | 2.55                        | 1.59                      | 4.74                      | 4.08                     | 6.66                      | 7.66                      | 5.07                       | 5.67                               | 4.27                        | 3.63                           | 4.35                           |
| TENCHE | 1999 | 2.96                      | 3.85                        | 3.41                      | 6.06                      | 7.4                      | 8.02                      | 7.76                      | 5.72                       | 5.85                               | 5.97                        | 5.9                            | 3.71                           |
| TENCHE | 2000 | 2.36                      | 2.53                        | 2.69                      | 2.94                      | 5.05                     | 6.44                      | 7.04                      | 6.95                       | 6.53                               | 5.31                        | 3.61                           | 3.45                           |

| Nombre     | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| TENCHE     | 2001 | 1.96                      | 3.03                        | 3.04                      | 3.63                      | 6.04                     | 8.64                      | 5.54                      | 3.86                       | 6.91                               | 4.28                        | 6.03                           | 4.74                           |
| TENCHE     | 2002 | 2.13                      | 2.05                        | 3.14                      | 4.47                      | 4.64                     | 5.02                      | 2.67                      | 2.72                       | 3.13                               | 2.87                        | 2.49                           | 3.01                           |
| TENCHE     | 2003 | 1.28                      | 2.89                        | 2.75                      | 3.96                      | 6.38                     | 5.56                      | 3.96                      | 4.03                       | 4.03                               | 6.51                        | 4.37                           | 5.49                           |
| TENCHE     | 2004 | 2.92                      | 2.31                        | 2.37                      | 4.44                      | 4.99                     | 3.83                      | 5.63                      | 4.01                       | 4.45                               | 3.79                        | 5.58                           | 2.36                           |
| TENCHE     | 2005 | 1.7                       | 3.08                        | 2.68                      | 4.4                       | 4.45                     | 5.89                      | 4.14                      | 3.36                       | 4.04                               | 4.72                        | 6.07                           | 2.85                           |
| TENCHE     | 2006 | 1.87                      | 2.82                        | 4.01                      | 5.33                      | 8.16                     | 6.17                      | 4.37                      | 5.24                       | 5.84                               | 4.95                        | 6.09                           | 3.87                           |
| TENCHE     | 2007 | 3.13                      | 3.32                        | 3.13                      | 4.67                      | 7.4                      | 5.54                      | 5.94                      | 7.34                       | 6.72                               | 7.81                        | 6.48                           | 3.53                           |
| TENCHE     | 2008 | 2.98                      | 3.91                        | 3.32                      | 3.39                      | 4.04                     | 5.91                      | 8.58                      | 5.1                        | 7.06                               | 7.17                        | 5.8                            | 3.98                           |
| TENCHE     | 2009 | 3.29                      | 3.89                        | 4.19                      | 4.08                      | 4.22                     | 7.12                      | 3.87                      | 3.73                       | 3.37                               | 3.19                        | 4.65                           | 2.44                           |
| TENCHE     | 2010 | 1.79                      | 2.58                        | 3.33                      | 3.65                      | 5.62                     | 4.2                       | 7.79                      | 7.07                       | 9.17                               | 6.44                        | 5.74                           | 4.07                           |
| TENCHE     | 2011 | 2.77                      | 4.25                        | 5.62                      | 6.41                      | 6.01                     | 6.39                      | 6.41                      | 6.34                       | 5.57                               | 7.17                        | 7.45                           | 4.52                           |
| TENCHE     | 2012 | 2.97                      | 2.39                        | 4.69                      | 7.17                      | 8.4                      | 5.54                      | 5.18                      | 6.61                       | 3.59                               | 5.19                        | 3.2                            | 2.31                           |
| TENCHE     | 2013 | 2.37                      | 3.32                        | 3.11                      | 3.22                      | 5.01                     | 4.55                      | 3.01                      | 6.2                        | 5.3                                | 4.73                        | 3.67                           | 3.01                           |
| TENCHE     | 2014 | 2.12                      | 3.22                        | 2.62                      | 4.34                      | 3.81                     | 5.37                      | 2.63                      | 5.41                       | 4.23                               | 5.48                        | 6.13                           | 2.97                           |
| TENCHE     | 2015 | 3.24                      | 3.5                         | 2.82                      | 4.08                      | 7.79                     | 4.71                      | 4.31                      | 3.42                       | 2.28                               | 3.12                        | 2.2                            | 1.34                           |
| TENCHE     | 2016 | 1.58                      | 2.53                        | 2.51                      | 3.11                      | 4.86                     | 4.19                      | 4                         | 4.75                       | 4.79                               | 5.15                        | 5.21                           | 3.85                           |
| TENCHE     | 2017 | 3.06                      | 2.78                        | 4.23                      | 3.56                      | 5.32                     | 5.98                      | 5.22                      | 4.63                       | 5.24                               | 4.08                        | 3.72                           | 2.42                           |
| GRAND<br>E | 1942 | 16.73                     | 17.68                       | 25.95                     | 46.66                     | 55.79                    | 38.49                     | 30.89                     | 36.69                      | 32.12                              | 54.55                       | 53.51                          | 37.73                          |
| GRAND<br>E | 1943 | 35.36                     | 30.41                       | 31.36                     | 65.39                     | 50.09                    | 41.53                     | 29.18                     | 31.17                      | 29.56                              | 56.36                       | 43.72                          | 28.8                           |
| GRAND<br>E | 1944 | 21.86                     | 21.57                       | 22.43                     | 22.52                     | 59.12                    | 64.72                     | 32.31                     | 29.94                      | 40.87                              | 53.22                       | 40.77                          | 25.28                          |
| GRAND<br>E | 1945 | 20.05                     | 14.83                       | 19.01                     | 35.36                     | 56.26                    | 28.89                     | 30.98                     | 43.62                      | 29.27                              | 41.15                       | 40.68                          | 42.1                           |
| GRAND<br>E | 1946 | 37.45                     | 22.14                       | 29.37                     | 45.05                     | 40.87                    | 25.95                     | 21.19                     | 25.76                      | 25.19                              | 32.69                       | 32.79                          | 33.36                          |
| GRAND<br>E | 1947 | 24.14                     | 17.96                       | 15.21                     | 20.15                     | 31.74                    | 34.88                     | 36.97                     | 29.56                      | 36.31                              | 47.81                       | 32.12                          | 23.95                          |
| GRAND<br>E | 1948 | 17.68                     | 15.11                       | 16.44                     | 35.64                     | 40.11                    | 35.93                     | 44.76                     | 25.47                      | 23.38                              | 24.9                        | 43.24                          | 24.62                          |

| Nombre     | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| GRAND<br>E | 1949 | 13.88                     | 15.11                       | 20.43                     | 25.09                     | 32.88                    | 27.28                     | 40.49                     | 31.46                      | 29.65                              | 45.81                       | 41.91                          | 32.69                          |
| GRAND<br>E | 1950 | 19.1                      | 22.71                       | 24.33                     | 22.43                     | 38.78                    | 59.88                     | 40.3                      | 61.87                      | 35.93                              | 49.04                       | 42.2                           | 43.05                          |
| GRAND<br>E | 1951 | 29.66                     | 35.69                       | 28.18                     | 34.9                      | 36.28                    | 28.77                     | 34.7                      | 29.56                      | 30.35                              | 28.47                       | 33.22                          | 24.32                          |
| GRAND<br>E | 1952 | 19.48                     | 17.1                        | 19.58                     | 26.6                      | 30.45                    | 27.98                     | 31.44                     | 48.94                      | 46.96                              | 40.14                       | 49.73                          | 25.21                          |
| GRAND<br>E | 1953 | 16.51                     | 15.92                       | 14.24                     | 21.06                     | 36.09                    | 26.5                      | 19.77                     | 15.92                      | 22.74                              | 37.08                       | 47.06                          | 34.31                          |
| GRAND<br>E | 1954 | 16.12                     | 17.99                       | 14.43                     | 27.88                     | 33.91                    | 41.62                     | 53.49                     | 39.05                      | 30.49                              | 53.5                        | 47.27                          | 38.92                          |
| GRAND<br>E | 1955 | 26.08                     | 23.81                       | 29.35                     | 39.46                     | 44.86                    | 47.57                     | 40.2                      | 39.8                       | 47.2                               | 61.7                        | 58.9                           | 52.6                           |
| GRAND<br>E | 1956 | 42.9                      | 54.3                        | 38.2                      | 45.8                      | 56.2                     | 56.6                      | 44.1                      | 49.9                       | 46.5                               | 67.1                        | 44.5                           | 41                             |
| GRAND<br>E | 1957 | 25.5                      | 25.4                        | 20.1                      | 37.8                      | 45.2                     | 31.8                      | 28.7                      | 32.5                       | 34.7                               | 46.5                        | 40.2                           | 24.8                           |
| GRAND<br>E | 1958 | 18.8                      | 14.7                        | 19                        | 20                        | 34.9                     | 22.6                      | 15                        | 26.9                       | 16.1                               | 27.8                        | 26.1                           | 26.4                           |
| GRAND<br>E | 1959 | 13.9                      | 11.3                        | 15.3                      | 22.5                      | 27.3                     | 28.5                      | 28.5                      | 27.1                       | 35.7                               | 40                          | 41.9                           | 22.5                           |
| GRAND<br>E | 1960 | 21.1                      | 19.5                        | 19.6                      | 34.6                      | 35.2                     | 29.2                      | 34.5                      | 32.1                       | 39.4                               | 39.8                        | 39                             | 35.3                           |
| GRAND<br>E | 1961 | 18.8                      | 19.9                        | 21.3                      | 32.8                      | 24.5                     | 32.9                      | 29.9                      | 23.8                       | 33.4                               | 33.5                        | 50.6                           | 27.2                           |
| GRAND<br>E | 1962 | 21.2                      | 18.2                        | 23.9                      | 29.1                      | 54.8                     | 40.6                      | 33.1                      | 39.7                       | 39.1                               | 46.9                        | 43.8                           | 30.3                           |
| GRAND<br>E | 1963 | 21.6                      | 26.1                        | 27.5                      | 49.4                      | 51.4                     | 34.3                      | 40.4                      | 35.7                       | 31.8                               | 43                          | 51.3                           | 28.1                           |
| GRAND<br>E | 1964 | 20.2                      | 21.4                        | 19                        | 37.7                      | 30.7                     | 42.8                      | 40.2                      | 38                         | 44.1                               | 41.2                        | 44.8                           | 30.1                           |
| GRAND<br>E | 1965 | 23.3                      | 17.9                        | 15.5                      | 27.6                      | 33.6                     | 25.6                      | 20.1                      | 27.7                       | 34.9                               | 43.2                        | 50.2                           | 32.6                           |

| Nombre     | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| GRAND<br>E | 1966 | 27.1                      | 16.4                        | 17.9                      | 22.5                      | 27.9                     | 36.5                      | 27.4                      | 32.4                       | 33.4                               | 47.4                        | 47.4                           | 40                             |
| GRAND<br>E | 1967 | 23.8                      | 28.1                        | 26.2                      | 34.2                      | 43.6                     | 53.8                      | 42.3                      | 30.9                       | 33.2                               | 33.4                        | 39.7                           | 23.5                           |
| GRAND<br>E | 1968 | 18.8                      | 19.4                        | 18.3                      | 32.9                      | 39.4                     | 45                        | 40.4                      | 32.8                       | 45.6                               | 51.4                        | 47.9                           | 31.3                           |
| GRAND<br>E | 1969 | 22.8                      | 17.4                        | 14.1                      | 31.9                      | 32.2                     | 28.6                      | 13.5                      | 36                         | 38                                 | 41.4                        | 43.9                           | 30.1                           |
| GRAND<br>E | 1970 | 24.2                      | 21.1                        | 17.3                      | 32.1                      | 49.6                     | 37.8                      | 29.8                      | 32.8                       | 47.3                               | 67.1                        | 68.4                           | 46.7                           |
| GRAND<br>E | 1971 | 46.2                      | 45.2                        | 55.3                      | 51.4                      | 75.3                     | 56.9                      | 58.9                      | 65                         | 59.2                               | 64.8                        | 59.4                           | 36.1                           |
| GRAND<br>E | 1972 | 33                        | 28.1                        | 30.1                      | 39.6                      | 60.6                     | 45                        | 34.2                      | 35.1                       | 30.7                               | 40.1                        | 40.7                           | 27.2                           |
| GRAND<br>E | 1973 | 18.7                      | 13.5                        | 15.5                      | 23                        | 33.7                     | 34.9                      | 29.5                      | 32.3                       | 50.8                               | 50.7                        | 48.6                           | 49.9                           |
| GRAND<br>E | 1974 | 38.8                      | 36.8                        | 33.3                      | 39.1                      | 41.9                     | 33                        | 36.2                      | 43.2                       | 61                                 | 66.2                        | 59.3                           | 31.8                           |
| GRAND<br>E | 1975 | 21.6                      | 27.1                        | 34.1                      | 24.7                      | 36.9                     | 39.9                      | 54.6                      | 51.2                       | 61.3                               | 53.7                        | 67.2                           | 57.1                           |
| GRAND<br>E | 1976 | 29.4                      | 26.1                        | 33                        | 42.5                      | 51.6                     | 42.9                      | 26.6                      | 24.3                       | 24.6                               | 51.7                        | 36.9                           | 21.7                           |
| GRAND<br>E | 1977 | 14.9                      | 12.2                        | 12.4                      | 20.4                      | 29.1                     | 34.3                      | 31.6                      | 36.3                       | 28.9                               | 38.2                        | 43.9                           | 22.3                           |
| GRAND<br>E | 1978 | 14.9                      | 13.4                        | 22.2                      | 48                        | 33.9                     | 42.3                      | 31.4                      | 23.2                       | 30.6                               | 40.1                        | 44.1                           | 33.3                           |
| GRAND<br>E | 1979 | 17.1                      | 16.6                        | 22.5                      | 30.9                      | 30.1                     | 34.1                      | 19.5                      | 20.9                       | 33.4                               | 46.2                        | 57.4                           | 29.5                           |
| GRAND<br>E | 1980 | 21.1                      | 20.3                        | 14.8                      | 23.8                      | 27.5                     | 35.1                      | 26.2                      | 24.8                       | 27.8                               | 42.6                        | 38.8                           | 31.2                           |
| GRAND<br>E | 1981 | 19.8                      | 16.3                        | 24.1                      | 33.9                      | 60.1                     | 50.9                      | 46.5                      | 32.8                       | 44.6                               | 53.5                        | 47.4                           | 36.1                           |
| GRAND<br>E | 1982 | 35.9                      | 39.8                        | 35.5                      | 56.8                      | 64.2                     | 41.8                      | 31.9                      | 27.1                       | 29.4                               | 45.1                        | 37.3                           | 33.5                           |

| Nombre  | Año  | Caudal Enero (m3/s) | Caudal Febrero (m3/s) | Caudal Marzo (m3/s) | Caudal Abril (m3/s) | Caudal Mayo(m3/s) | Caudal Junio (m3/s) | Caudal Julio (m3/s) | Caudal Agosto (m3/s) | Caudal Septiem bre (m3/s) | Caudal Octubre (m3/s) | Caudal Noviem bre (m3/s) | Caudal Diciemb re (m3/s) |
|---------|------|---------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|---------------------------|-----------------------|--------------------------|--------------------------|
| GRAND E | 1983 | 18.7                | 16.8                  | 23.9                | 33.9                | 41.1              | 24.7                | 36.2                | 30                   | 37.3                      | 37.1                  | 39                       | 41.4                     |
| GRAND E | 1984 | 31.4                | 30.8                  | 19.8                | 24.9                | 44.4              | 44.5                | 41.3                | 38.8                 | 50                        | 65.1                  | 57.5                     | 36.6                     |
| GRAND E | 1985 | 24.6                | 20.8                  | 25.6                | 30.6                | 41                | 29.8                | 25.3                | 41.9                 | 54.8                      | 47.4                  | 40.5                     | 30.8                     |
| GRAND E | 1986 | 24.4                | 29.5                  | 24.9                | 42.7                | 32.6              | 40.2                | 26.4                | 23.4                 | 23.9                      | 52.4                  | 37.2                     | 23.9                     |
| GRAND E | 1987 | 17.9                | 15.8                  | 14.9                | 18.3                | 34                | 16.9                | 20.6                | 24.55                | 33.9                      | 46.6                  | 30.4                     | 25.4                     |
| GRAND E | 1988 | 15.6                | 15.8                  | 11.5                | 23.6                | 25.9              | 29                  | 28.4                | 48.94                | 51.12                     | 54.45                 | 62.05                    | 49.07                    |
| GRAND E | 1989 | 37.49               | 31.17                 | 30.7                | 28.8                | 41.4              | 35.1                | 26.4                | 32.4                 | 43.3                      | 45.3                  | 42.5                     | 27.5                     |
| GRAND E | 1990 | 23.1                | 25.5                  | 24.2                | 33.5                | 36.4              | 28.9                | 25.1                | 19.8                 | 27.6                      | 55                    | 35                       | 24.8                     |
| GRAND E | 1991 | 21.26               | 14.53                 | 24.6                | 24.8                | 35.2              | 28.2                | 26.8                | 26                   | 21.11                     | 37.1                  | 38.8                     | 30.5                     |
| GRAND E | 1992 | 17                  | 16.6                  | 19.3                | 17.3                | 25.86             | 19.82               | 18.98               | 22.74                | 28.18                     | 22.6                  | 26.6                     | 31.12                    |
| GRAND E | 1993 | 21.76               | 13.21                 | 16.56               | 25.5                | 40                | 17.2                | 22.8                | 23.7                 | 40.5                      | 42.06                 | 51                       | 42.7                     |
| GRAND E | 1994 | 22.33               | 25.02                 | 33.93               | 41.49               | 35.93             | 35.35               | 26.99               | 32.63                | 29.57                     | 40.05                 | 44.66                    | 23.81                    |
| GRAND E | 1995 | 16.76               | 13.83                 | 16.45               | 21.15               | 30.35             | 33.23               | 36.97               | 51.66                | 40.29                     | 48.78                 | 40                       | 42.97                    |
| GRAND E | 1996 | 29.8                | 29.11                 | 47.65               | 37.43               | 59.07             | 59.11               | 68.09               | 41.1                 | 36.65                     | 46.04                 | 40.07                    | 27.13                    |
| GRAND E | 1997 | 26.34               | 25.1                  | 21.97               | 32.21               | 23.48             | 30.57               | 16.67               | 12.96                | 15.68                     | 14.99                 | 24.86                    | 14.5                     |
| GRAND E | 1998 | 10.87               | 10.7                  | 12.93               | 27.64               | 33.93             | 31.56               | 38.1                | 31.22                | 48.61                     | 40.03                 | 40.03                    | 42.43                    |
| GRAND E | 1999 | 35.6                | 39.3                  | 49.3                | 48.3                | 47                | 48.2                | 36.4                | 37.5                 | 56.6                      | 52.1                  | 44.8                     | 47.5                     |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| GRAND E       | 2000       | 28.5                               | 31                                   | 29.1                               | 33.8                               | 45.6                              | 47.1                               | 42.6                               | 41.9                                | 56.1                                         | 40.9                                 | 38.7                                    | 27.9                                    |
| GRAND E       | 2001       | 21.99                              | 18.03                                | 27.16                              | 21.95                              | 32.56                             | 36.73                              | 31.92                              | 19.53                               | 29.38                                        | 32.35                                | 41.99                                   | 32.67                                   |
| GRAND E       | 2002       | 20.22                              | 16.35                                | 19.49                              | 30.45                              | 32.28                             | 39.79                              | 20.29                              | 16.8                                | 15.66                                        | 22.15                                | 23.47                                   | 27.4                                    |
| GRAND E       | 2003       | 13.38                              | 15.22                                | 17.15                              | 28.46                              | 32.47                             | 39.34                              | 21.83                              | 22.72                               | 25.97                                        | 34.96                                | 35.66                                   | 31.38                                   |
| GRAND E       | 2004       | 22.74                              | 17.47                                | 17.05                              | 20.9                               | 31.66                             | 25.12                              | 36.88                              | 23.07                               | 35.86                                        | 34.36                                | 44.06                                   | 28.48                                   |
| GRAND E       | 2005       | 20.84                              | 16.36                                | 14.32                              | 22.81                              | 36.58                             | 30.48                              | 22.33                              | 18.65                               | 22.32                                        | 41.41                                | 44.9                                    | 27.81                                   |
| GRAND E       | 2006       | 23                                 | 17.99                                | 26.82                              | 39.91                              | 59.22                             | 45.25                              | 24.73                              | 25.26                               | 33.86                                        | 34.16                                | 54.21                                   | 35.86                                   |
| GRAND E       | 2007       | 22.71                              | 16.34                                | 21.91                              | 43.13                              | 53.76                             | 51.37                              | 31.41                              | 40.7                                | 40.06                                        | 57.49                                | 55.34                                   | 37.83                                   |
| GRAND E       | 2008       | 26.12                              | 26.92                                | 31.65                              | 31.88                              | 44.78                             | 56.07                              | 59.21                              | 53.85                               | 48.94                                        | 57.07                                | 63.24                                   | 34.09                                   |
| GRAND E       | 2009       | 32.79                              | 27.36                                | 44.65                              | 32.36                              | 40.56                             | 36.9                               | 30.98                              | 26.48                               | 20.18                                        | 26.22                                | 35.48                                   | 19.04                                   |
| GRAND E       | 2010       | 13.36                              | 11.64                                | 11.23                              | 20.62                              | 30.49                             | 44.59                              | 55                                 | 47.09                               | 70.69                                        | 58.52                                | 81.14                                   | 62.69                                   |
| GRAND E       | 2011       | 28.12                              | 28.72                                | 36.02                              | 73.95                              | 51.96                             | 49.93                              | 48.02                              | 47.43                               | 41.53                                        | 57                                   | 55.08                                   | 49.4                                    |
| GRAND E       | 2012       | 32.65                              | 22.77                                | 28.2                               | 49.25                              | 48.55                             | 31.56                              | 28.79                              | 36.43                               | 21.51                                        | 35.93                                | 28.55                                   | 23.3                                    |
| GRAND E       | 2013       | 14.43                              | 16.16                                | 17.2                               | 22.42                              | 40.33                             | 30.32                              | 20.87                              | 30.97                               | 30.04                                        | 27.55                                | 37.03                                   | 30.89                                   |
| GRAND E       | 2014       | 20.43                              | 22.04                                | 25.57                              | 24.38                              | 30.6                              | 25.38                              | 18.82                              | 20.74                               | 21.76                                        | 33.8                                 | 40.73                                   | 26.15                                   |
| GRAND E       | 2015       | 15.29                              | 18.63                                | 16.09                              | 26.94                              | 23.31                             | 18.9                               | 23.22                              | 19.13                               | 15.1                                         | 16.95                                | 22.55                                   | 12.86                                   |
| GRAND E       | 2016       | 10.87                              | 9.68                                 | 10.7                               | 15.94                              | 21.29                             | 19.18                              | 22.44                              | 19.06                               | 24.77                                        | 25.14                                | 41.56                                   | 34.23                                   |

| Nombre     | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| GRAND<br>E | 2017 | 22.95                     | 14.72                       | 27.64                     | 24.63                     | 45.12                    | 35.39                     | 23.67                     | 21.35                      | 28.55                              | 32.11                       | 34.8                           | 25.06                          |
| PORCE2     | 1972 |                           |                             |                           |                           |                          | 52.43                     | 38.9                      | 39.33                      | 36.48                              | 46.34                       | 47.84                          | 33.37                          |
| PORCE2     | 1973 | 23.61                     | 16.84                       | 19.75                     | 25.68                     | 37.94                    | 47.88                     | 36.31                     | 50.65                      | 68.15                              | 52.71                       | 51.76                          | 46.37                          |
| PORCE2     | 1974 | 38.65                     | 33.62                       | 34.1                      | 39.51                     | 45.62                    | 37.78                     | 36.25                     | 49.97                      | 66.89                              | 67.71                       | 61.31                          | 36.55                          |
| PORCE2     | 1975 | 29.08                     | 33.76                       | 33.52                     | 33.23                     | 45.88                    | 43.59                     | 59.78                     | 58.84                      | 54.24                              | 62.96                       | 63.4                           | 52.72                          |
| PORCE2     | 1976 | 34.32                     | 29.29                       | 29.17                     | 44.49                     | 47.49                    | 42.12                     | 23.71                     | 25.53                      | 25.12                              | 36.35                       | 28.89                          | 20.69                          |
| PORCE2     | 1977 | 27.97                     | 28.97                       | 29.6                      | 29.01                     | 32.63                    | 43.69                     | 36.83                     | 33.01                      | 42.17                              | 41.35                       | 36.08                          | 25.42                          |
| PORCE2     | 1978 | 22.68                     | 21.09                       | 21.84                     | 23.06                     | 40.04                    | 41.21                     | 38.06                     | 29.49                      | 31.76                              | 33.32                       | 35.76                          | 31.35                          |
| PORCE2     | 1979 | 24.57                     | 23.73                       | 22.92                     | 27.85                     | 57.12                    | 47.89                     | 26.95                     | 27.42                      | 32.62                              | 46.4                        | 52.39                          | 33.57                          |
| PORCE2     | 1980 | 26.14                     | 20.99                       | 21.02                     | 20.19                     | 25.56                    | 24.91                     | 23.42                     | 26.71                      | 27.68                              | 62.35                       | 51.73                          | 35.23                          |
| PORCE2     | 1981 | 21.58                     | 22.73                       | 22.37                     | 35.73                     | 69.53                    | 67.45                     | 56.99                     | 41.17                      | 48.29                              | 59.74                       | 40.09                          | 25.8                           |
| PORCE2     | 1982 | 31.78                     | 33.21                       | 30.62                     | 57.34                     | 74.34                    | 49.23                     | 37.04                     | 35.08                      | 43.03                              | 59.1                        | 47.65                          | 37.62                          |
| PORCE2     | 1983 | 26.26                     | 19.68                       | 19.83                     | 35.01                     | 44.18                    | 32.63                     | 35.5                      | 29.83                      | 45.12                              | 40.93                       | 39.62                          | 37.29                          |
| PORCE2     | 1984 | 30.09                     | 26.02                       | 19.51                     | 22.64                     | 46.79                    | 55.02                     | 53.43                     | 49.52                      | 69.12                              | 81.38                       | 72.78                          | 38.56                          |
| PORCE2     | 1985 | 28.85                     | 24.53                       | 23.74                     | 25.24                     | 42.4                     | 29.77                     | 27.26                     | 46.27                      | 60.05                              | 51.39                       | 42.3                           | 33.38                          |
| PORCE2     | 1986 | 28.2                      | 28.42                       | 25.51                     | 42.82                     | 47.09                    | 44.18                     | 30.38                     | 37.99                      | 34.35                              | 63.4                        | 46.2                           | 34.13                          |
| PORCE2     | 1987 | 24.95                     | 22.23                       | 23.02                     | 30.83                     | 45.58                    | 29.84                     | 43.74                     | 39.05                      | 49.88                              | 64.9                        | 46.79                          | 39.09                          |
| PORCE2     | 1988 | 25.71                     | 24.82                       | 20.92                     | 27.68                     | 35.12                    | 38.51                     | 40.19                     | 68.84                      | 91.81                              | 77.78                       | 85.09                          | 52.68                          |
| PORCE2     | 1989 | 44.91                     | 35.19                       | 37.06                     | 35.67                     | 47.94                    | 51.81                     | 34.94                     | 51.08                      | 79.88                              | 67.33                       | 51.86                          | 38.08                          |
| PORCE2     | 1990 | 27.04                     | 25.49                       | 21.9                      | 33.66                     | 41.95                    | 43.62                     | 36.89                     | 28.46                      | 42.83                              | 80.38                       | 56.44                          | 38.03                          |
| PORCE2     | 1991 | 24.26                     | 21.39                       | 23.63                     | 28.23                     | 40.24                    | 38.3                      | 36.29                     | 23.33                      | 23.45                              | 39.69                       | 42.58                          | 33.14                          |
| PORCE2     | 1992 | 21.42                     | 19.36                       | 14.65                     | 19.32                     | 28.51                    | 23.08                     | 23.52                     | 30.44                      | 42.35                              | 34.75                       | 29.84                          | 30.62                          |
| PORCE2     | 1993 | 24.8                      | 20.08                       | 22.51                     | 30.37                     | 44.35                    | 25.64                     | 34.28                     | 34.06                      | 59.3                               | 53.77                       | 62.61                          | 52.34                          |
| PORCE2     | 1994 | 31.09                     | 27.84                       | 19.16                     | 43.1                      | 46.41                    | 36.12                     | 31.64                     | 40.57                      | 43.21                              | 50.4                        | 63.54                          | 36.54                          |
| PORCE2     | 1995 | 23.74                     | 20.95                       | 22.97                     | 28.25                     | 41.49                    | 49.22                     | 51.43                     | 78.92                      | 55.86                              | 67.64                       | 45.42                          | 43.32                          |
| PORCE2     | 1996 | 34.37                     | 36.18                       | 46.14                     | 49.14                     | 73.86                    | 64.9                      | 54.9                      | 59.29                      | 52.31                              | 65.1                        | 50.28                          | 33.8                           |
| PORCE2     | 1997 | 32.3                      | 33.42                       | 27.95                     | 38.54                     | 30.68                    | 54.98                     | 24.38                     | 19.83                      | 29.75                              | 27.35                       | 32.03                          | 20.82                          |
| PORCE2     | 1998 | 15.44                     | 15.61                       | 16.84                     | 26.31                     | 45.94                    | 36.63                     | 52.97                     | 43.06                      | 67.84                              | 56.87                       | 50.68                          | 55.88                          |
| PORCE2     | 1999 | 39.05                     | 53.93                       | 49.98                     | 52.24                     | 71.25                    | 76.99                     | 58.42                     | 42.32                      | 65.95                              | 90.95                       | 73.74                          | 53.43                          |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| PORCE2 | 2000 | 39.05                     | 35.43                       | 34.17                     | 35.89                     | 66.95                    | 73.4                      | 66.49                     | 63.59                      | 86.67                              | 67.42                       | 44.36                          | 38.74                          |
| PORCE2 | 2001 | 31.9                      | 26.62                       | 31.79                     | 30.65                     | 41.74                    | 42.04                     | 45.58                     | 28.69                      | 44.6                               | 50.3                        | 46.22                          | 42.37                          |
| PORCE2 | 2002 | 26.57                     | 18.52                       | 22.81                     | 44.06                     | 46.3                     | 50.55                     | 33.82                     | 29.06                      | 35.1                               | 36.63                       | 39.21                          | 32.51                          |
| PORCE2 | 2003 | 22.69                     | 23.24                       | 25.03                     | 40.57                     | 51.88                    | 65.28                     | 38.3                      | 41.17                      | 43.93                              | 59.74                       | 57.54                          | 45.25                          |
| PORCE2 | 2004 | 33.94                     | 28.99                       | 31.46                     | 40.42                     | 55.84                    | 41.57                     | 57.59                     | 41.18                      | 63.37                              | 76.75                       | 81.81                          | 43.86                          |
| PORCE2 | 2005 | 34.85                     | 27.1                        | 27.02                     | 37.1                      | 58.66                    | 56.38                     | 44.46                     | 35.31                      | 41.1                               | 67.2                        | 72.47                          | 40.85                          |
| PORCE2 | 2006 | 34.53                     | 30.45                       | 39.77                     | 60.83                     | 79.99                    | 70.68                     | 36.63                     | 39.95                      | 52.62                              | 54.43                       | 77.24                          | 49.66                          |
| PORCE2 | 2007 | 35.78                     | 27.7                        | 31.42                     | 54.36                     | 86                       | 60.22                     | 49.45                     | 62.56                      | 61.69                              | 97.09                       | 65.84                          | 48.79                          |
| PORCE2 | 2008 | 36.37                     | 43.42                       | 47.17                     | 52.27                     | 81.69                    | 93.48                     | 96.28                     | 90.05                      | 77.25                              | 92.26                       | 83.94                          | 51.07                          |
| PORCE2 | 2009 | 45.13                     | 44.75                       | 53.09                     | 55.88                     | 62.39                    | 66.72                     | 51.89                     | 49.44                      | 39.22                              | 45.35                       | 53.05                          | 31.62                          |
| PORCE2 | 2010 | 23.48                     | 21.18                       | 21.43                     | 36.41                     | 53.47                    | 72.17                     | 79.75                     | 73.67                      | 109.28                             | 95.11                       | 102.54                         | 69.78                          |
| PORCE2 | 2011 | 35.04                     | 32.47                       | 40.52                     | 79.17                     | 67.77                    | 56.8                      | 51.65                     | 56.29                      | 51.81                              | 75.72                       | 84                             | 77.4                           |
| PORCE2 | 2012 | 53.45                     | 35.56                       | 41.03                     | 74.34                     | 118.32                   | 53.71                     | 45.42                     | 51.24                      | 34.38                              | 60.28                       | 52.87                          | 37.38                          |
| PORCE2 | 2013 | 26.53                     | 28.97                       | 29.72                     | 29.9                      | 70.01                    | 54.53                     | 36.93                     | 57.98                      | 53.29                              | 54.24                       | 65.58                          | 49.89                          |
| PORCE2 | 2014 | 35.14                     | 34.06                       | 33.64                     | 39.5                      | 51.85                    | 51.1                      | 32.11                     | 35.69                      | 42.19                              | 60.28                       | 54.56                          | 40.38                          |
| PORCE2 | 2015 | 29.04                     | 32.16                       | 27.24                     | 41.06                     | 49.97                    | 33.84                     | 39.01                     | 37.94                      | 34.03                              | 39.14                       | 45.66                          | 27.31                          |
| PORCE2 | 2016 | 15.64                     | 14.67                       | 12.06                     | 23.16                     | 27.63                    | 28.35                     | 35.2                      | 30.6                       | 43.3                               | 43.51                       | 35.85                          | 44.93                          |
| PORCE2 | 2017 | 34.73                     | 25.55                       | 28.5                      | 34.29                     | 66.38                    | 51.67                     | 33.28                     | 36.7                       | 45.88                              | 38.04                       | 46.15                          | 28.94                          |
| PORCE3 | 1972 |                           |                             |                           |                           |                          | 30.02                     | 27.54                     | 21.13                      | 17.59                              | 31.92                       | 37.26                          | 30.52                          |
| PORCE3 | 1973 | 24.19                     | 9.64                        | 10.93                     | 21.71                     | 24.05                    | 32.34                     | 25.53                     | 25.5                       | 46.08                              | 37.47                       | 30.8                           | 36.14                          |
| PORCE3 | 1974 | 37.84                     | 30.91                       | 28.66                     | 26.02                     | 23.37                    | 20.98                     | 27.92                     | 44.37                      | 36.99                              | 42.17                       | 56.01                          | 32.7                           |
| PORCE3 | 1975 | 23.73                     | 20.57                       | 32.78                     | 26.95                     | 32.9                     | 46.38                     | 31.69                     | 26.76                      | 28.69                              | 26.79                       | 35.74                          | 44.69                          |
| PORCE3 | 1976 | 26.76                     | 20.57                       | 20.68                     | 28.75                     | 34.25                    | 31.54                     | 11.64                     | 3.57                       | 4.28                               | 23.74                       | 27.2                           | 13.15                          |
| PORCE3 | 1977 | 15.95                     | 18.79                       | 22.37                     | 31.14                     | 28.76                    | 22.06                     | 10.78                     | 5.05                       | 18.09                              | 24.25                       | 28.29                          | 23.2                           |
| PORCE3 | 1978 | 20.41                     | 9.96                        | 25.6                      | 17.83                     | 24.5                     | 15.82                     | 18.27                     | 12.68                      | 13.81                              | 17.1                        | 17.82                          | 21.04                          |
| PORCE3 | 1979 | 19.71                     | 21.22                       | 16.1                      | 28.76                     | 7.74                     | 10.98                     | 26.02                     | 53.77                      | 51.8                               | 50.06                       | 29.49                          | 21.16                          |
| PORCE3 | 1980 | 21.91                     | 38.52                       | 21.98                     | 17.86                     | 9.88                     | 16.05                     | 14.86                     | 20.62                      | 18.34                              | 19.73                       | 9.44                           | 16.62                          |
| PORCE3 | 1981 | 24.71                     | 21.96                       | 19.07                     | 30.61                     | 5.34                     | 7.11                      | 41.26                     | 5.51                       | 5.31                               | 11.34                       | 31.46                          | 29.51                          |
| PORCE3 | 1982 | 10.48                     | 2.49                        | 7.73                      | 19.41                     | 29.76                    | 20                        | 6.34                      | 4.11                       | 25.97                              | 23.01                       | 17.63                          | 12.56                          |
| PORCE3 | 1983 | 17.87                     | 20.45                       | 18.3                      | 25.49                     | 19.19                    | 14.05                     | 7.96                      | 20.42                      | 23.4                               | 13.27                       | 34.83                          | 27.39                          |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| PORCE3 | 1984 | 25.92                     | 10.04                       | 14.13                     | 10.93                     | 15.07                    | 39.26                     | 20.77                     | 25.37                      | 40.34                              | 38.78                       | 21.45                          | 18.5                           |
| PORCE3 | 1985 | 10.21                     | 13.7                        | 19.65                     | 15.66                     | 25.16                    | 12.75                     | 9.55                      | 33.05                      | 32.58                              | 29.58                       | 37.37                          | 17.75                          |
| PORCE3 | 1986 | 19.97                     | 9.76                        | 8.33                      | 26.94                     | 15.53                    | 27.9                      | 11.22                     | 3.23                       | 10.26                              | 18.62                       | 9.25                           | 3.11                           |
| PORCE3 | 1987 | 7.53                      | 8.23                        | 16.76                     | 11.19                     | 9.09                     | 16.42                     | 21.24                     | 19.69                      | 20.41                              | 44.98                       | 1.43                           | 24.41                          |
| PORCE3 | 1988 | 19.23                     | 14.11                       | 8.52                      | 4.36                      | 3.89                     | 13.31                     | 14.71                     | 4.36                       | 15.62                              | 0.98                        | 2.12                           | 16.08                          |
| PORCE3 | 1989 | 11.6                      | 3.29                        | 3.17                      | 10.76                     | 16.36                    | 5.56                      | 3.63                      | 9.34                       | 20.41                              | 5.7                         | 9.55                           | 9.06                           |
| PORCE3 | 1990 | 21.55                     | 23.51                       | 21.8                      | 16.88                     | 29.45                    | 16.23                     | 17.42                     | 18.03                      | 22.91                              | 16.37                       | 25.23                          | 17.08                          |
| PORCE3 | 1991 | 5.12                      | 0.85                        | 3.73                      | 1.45                      | 6.69                     | 10.45                     | 7.11                      | 2.46                       | 4.25                               | 17.95                       | 15.07                          | 16.25                          |
| PORCE3 | 1992 | 20.91                     | 16.68                       | 9.53                      | 24.95                     | 17.29                    | 27.73                     | 15.14                     | 18.39                      | 34.9                               | 32.11                       | 25.31                          | 25.26                          |
| PORCE3 | 1993 | 28.16                     | 27.96                       | 30.15                     | 45.56                     | 54.19                    | 37.24                     | 28.75                     | 24.45                      | 60.29                              | 47.56                       | 36.37                          | 35.86                          |
| PORCE3 | 1994 | 18.49                     | 3.94                        | 8.21                      | 8.09                      | 6.64                     | 17.63                     | 18.76                     | 3.29                       | 15.41                              | 28.92                       | 10.81                          | 0.76                           |
| PORCE3 | 1995 | 7.17                      | 8.78                        | 13.17                     | 6.33                      | 11.02                    | 2.78                      | 24.65                     | 25.74                      | 4.36                               | 26.14                       | 21.73                          | 7.13                           |
| PORCE3 | 1996 | 1.02                      | 1.56                        | 9.28                      | 5.88                      | 30.32                    | 16.02                     | 59.81                     | 51.6                       | 40.86                              | 59.13                       | 44.23                          | 36.43                          |
| PORCE3 | 1997 | 26.05                     | 33.8                        | 29.15                     | 24.47                     | 37.87                    | 32.66                     | 24.83                     | 21.58                      | 17.51                              | 23.26                       | 22.26                          | 26.68                          |
| PORCE3 | 1998 | 33.91                     | 25.45                       | 17.42                     | 15                        | 33.62                    | 14.55                     | 47.15                     | 21.66                      | 75.25                              | 57.02                       | 40.5                           | 34.98                          |
| PORCE3 | 1999 | 14.82                     | 22.14                       | 31.8                      | 23.83                     | 35.9                     | 47.29                     | 26.45                     | 35.46                      | 32.76                              | 41.09                       | 25.65                          | 8.17                           |
| PORCE3 | 2000 | 7.1                       | 3.01                        | 11.42                     | 7.76                      | 8.61                     | 18.48                     | 18.76                     | 17.05                      | 25.82                              | 36.12                       | 33.23                          | 19.34                          |
| PORCE3 | 2001 | 12.82                     | 10.6                        | 7.14                      | 19.86                     | 22.48                    | 34.14                     | 49.5                      | 34.67                      | 45.26                              | 46.46                       | 39.32                          | 45.49                          |
| PORCE3 | 2002 | 51.27                     | 30.13                       | 18.42                     | 34.4                      | 30.04                    | 41.65                     | 27.07                     | 34.1                       | 30.18                              | 41.44                       | 35.19                          | 30.77                          |
| PORCE3 | 2003 | 28.03                     | 28.79                       | 30.61                     | 27.1                      | 38.07                    | 25.56                     | 41.5                      | 43.58                      | 33.83                              | 31.63                       | 31.45                          | 45.73                          |
| PORCE3 | 2004 | 45.82                     | 29.43                       | 16.18                     | 11.1                      | 32.35                    | 18.85                     | 13.93                     | 31.12                      | 45.53                              | 21.52                       | 38.91                          | 22.22                          |
| PORCE3 | 2005 | 36.79                     | 46.72                       | 15.54                     | 24.01                     | 14.8                     | 30.8                      | 20.98                     | 2.72                       | 29.03                              | 48.74                       | 17.28                          | 33                             |
| PORCE3 | 2006 | 13.14                     | 22.06                       | 27.15                     | 17.04                     | 9.33                     | 25.32                     | 13.43                     | 25.15                      | 29.92                              | 42.49                       | 28.31                          | 35.01                          |
| PORCE3 | 2007 | 25.7                      | 14.28                       | 28.8                      | 30.56                     | 5.43                     | 33.58                     | 20.29                     | 32.79                      | 29.22                              | 31.86                       | 21.75                          | 11.24                          |
| PORCE3 | 2008 | 25.71                     | 18.31                       | 15.9                      | 9.42                      | 17.15                    | 13.53                     | 2.4                       | 14.53                      | 8.06                               | 6.31                        | 11.84                          | 7.7                            |
| PORCE3 | 2009 | 7.05                      | 3.57                        | 9.7                       | 4.9                       | 7.05                     | 27.09                     | 19.55                     | 3.23                       | 16.51                              | 25.67                       | 13.43                          | 13.55                          |
| PORCE3 | 2010 | 7.1                       | 3.5                         | 2.9                       | 6.5                       | 36.57                    | 49.32                     | 41.15                     | 36.59                      | 11.31                              | 24.92                       | 20.09                          | 15.15                          |
| PORCE3 | 2011 | 45.04                     | 33.97                       | 37.33                     | 58.79                     | 35.75                    | 43.43                     | 29.4                      | 42.91                      | 15.12                              | 54.09                       | 42.56                          | 24.3                           |
| PORCE3 | 2012 | 9.02                      | 4.18                        | 18.11                     | 29.49                     | 51.98                    | 20.55                     | 19.59                     | 37.28                      | 17.24                              | 21.91                       | 18.5                           | 15.46                          |
| PORCE3 | 2013 | 9.41                      | 11.77                       | 8.63                      | 10.79                     | 22.61                    | 30.39                     | 12.62                     | 19.57                      | 17.59                              | 18.64                       | 22.54                          | 18.4                           |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| PORCE3 | 2014 | 14.71                     | 14.2                        | 13.55                     | 11.47                     | 17.3                     | 20.5                      | 10.06                     | 15.62                      | 14.59                              | 21.99                       | 19.4                           | 11.62                          |
| PORCE3 | 2015 | 8.5                       | 8.38                        | 10.77                     | 12.17                     | 19.61                    | 16.33                     | 15.55                     | 17.34                      | 17.39                              | 15.42                       | 15.44                          | 13.57                          |
| PORCE3 | 2016 | 10.04                     | 10.15                       | 8.98                      | 6.52                      | 11.92                    | 12.49                     | 12.11                     | 14.83                      | 17.23                              | 14.7                        | 24.97                          | 23.64                          |
| PORCE3 | 2017 | 14.84                     | 10.15                       | 13.62                     | 15.29                     | 17.79                    | 18.62                     | 13.75                     | 14.51                      | 16.92                              | 12.88                       | 16.99                          | 16.85                          |
| NECHI  | 1955 | 3.23                      | 2.55                        | 2.94                      | 4.06                      | 5.88                     | 4.92                      | 5.35                      | 4.2                        | 4.51                               | 6.92                        | 5.21                           | 4.27                           |
| NECHI  | 1956 | 3.84                      | 3.7                         | 3.48                      | 4.42                      | 6.74                     | 6.19                      | 4.27                      | 4.84                       | 4.07                               | 5.81                        | 5.49                           | 3.62                           |
| NECHI  | 1957 | 2.74                      | 2.6                         | 2.15                      | 3.35                      | 5.05                     | 3.34                      | 3.05                      | 2.95                       | 3.01                               | 4.42                        | 3.5                            | 3.01                           |
| NECHI  | 1958 | 2.08                      | 1.71                        | 2.01                      | 1.96                      | 3.87                     | 2.08                      | 1.9                       | 2.68                       | 1.7                                | 2.42                        | 1.9                            | 2.05                           |
| NECHI  | 1959 | 1.36                      | 1.22                        | 1.41                      | 1.91                      | 3.22                     | 3.07                      | 3.5                       | 2.69                       | 3.53                               | 4.29                        | 4.22                           | 2.95                           |
| NECHI  | 1960 | 2.4                       | 2.13                        | 1.93                      | 3.18                      | 3.98                     | 3.76                      | 3.82                      | 3.38                       | 3.78                               | 4.01                        | 3.49                           | 4.07                           |
| NECHI  | 1961 | 2.33                      | 2.12                        | 2.09                      | 3.48                      | 3.45                     | 4                         | 4.01                      | 2.86                       | 3.73                               | 3.87                        | 4.74                           | 3.2                            |
| NECHI  | 1962 | 2.47                      | 2.14                        | 2.41                      | 2.71                      | 5.75                     | 4.02                      | 3.98                      | 3.98                       | 3.73                               | 4.33                        | 4.47                           | 3                              |
| NECHI  | 1963 | 2.45                      | 2.63                        | 2.89                      | 4.42                      | 5.58                     | 3.96                      | 5.55                      | 3.6                        | 3.48                               | 4.7                         | 4.31                           | 3.16                           |
| NECHI  | 1964 | 2.31                      | 2.25                        | 2.38                      | 3.59                      | 4.15                     | 4.03                      | 4.57                      | 3.86                       | 3.85                               | 4.2                         | 3.88                           | 3.13                           |
| NECHI  | 1965 | 2.55                      | 2.18                        | 2.21                      | 3.2                       | 4.68                     | 3.05                      | 2.95                      | 3.27                       | 4.03                               | 4.1                         | 3.91                           | 2.89                           |
| NECHI  | 1966 | 2.62                      | 2                           | 2.25                      | 2.89                      | 3.9                      | 4.45                      | 3.57                      | 3.89                       | 3.95                               | 4.51                        | 4.27                           | 3.9                            |
| NECHI  | 1967 | 2.77                      | 2.35                        | 2.21                      | 4.18                      | 6.42                     | 6.97                      | 6.86                      | 4.11                       | 3.47                               | 3.96                        | 3.25                           | 2.58                           |
| NECHI  | 1968 | 2.27                      | 2.01                        | 2.21                      | 2.96                      | 4.28                     | 4.71                      | 4.17                      | 4.25                       | 4.2                                | 4.73                        | 3.98                           | 3.16                           |
| NECHI  | 1969 | 2.35                      | 2                           | 1.84                      | 4.28                      | 5.01                     | 2.67                      | 2.25                      | 4.57                       | 4.06                               | 5.68                        | 6.22                           | 3.38                           |
| NECHI  | 1970 | 2.89                      | 2.34                        | 2.37                      | 3.71                      | 6.35                     | 4.13                      | 3.86                      | 3.37                       | 5.03                               | 7.08                        | 5.94                           | 4.75                           |
| NECHI  | 1971 | 4.49                      | 4.42                        | 4.98                      | 4.72                      | 8.14                     | 5.46                      | 6.79                      | 7.23                       | 5.02                               | 5.93                        | 4.55                           | 3.14                           |
| NECHI  | 1972 | 3.16                      | 2.67                        | 2.64                      | 4.29                      | 7.64                     | 5.08                      | 4.02                      | 3.93                       | 3.51                               | 5.16                        | 3.35                           | 3.16                           |
| NECHI  | 1973 | 2.27                      | 2.03                        | 2.05                      | 2.71                      | 4.21                     | 3.17                      | 3.33                      | 3.11                       | 3.85                               | 4.28                        | 4.67                           | 4                              |
| NECHI  | 1974 | 3.14                      | 2.81                        | 2.82                      | 3.69                      | 5.28                     | 3.41                      | 3.97                      | 3.98                       | 4.57                               | 5.43                        | 5.02                           | 3.54                           |
| NECHI  | 1975 | 2.79                      | 2.66                        | 3.17                      | 3.41                      | 5.13                     | 5.28                      | 5.55                      | 5.9                        | 5.84                               | 7.06                        | 6.49                           | 5.78                           |
| NECHI  | 1976 | 3.43                      | 3.08                        | 3.33                      | 4.98                      | 6.71                     | 4.74                      | 3.31                      | 4.12                       | 2.88                               | 5.4                         | 4.04                           | 2.57                           |
| NECHI  | 1977 | 1.97                      | 1.9                         | 1.77                      | 2.35                      | 3.58                     | 4.47                      | 4.08                      | 4.11                       | 3.36                               | 3.78                        | 3.17                           | 2.85                           |
| NECHI  | 1978 | 2                         | 1.85                        | 2.09                      | 5                         | 4.08                     | 4.68                      | 4.29                      | 3.02                       | 3.24                               | 4.28                        | 4.02                           | 3.7                            |
| NECHI  | 1979 | 2.29                      | 2.22                        | 2.11                      | 3.21                      | 4.66                     | 5.24                      | 2.58                      | 2.7                        | 3.03                               | 5.65                        | 5.71                           | 3.8                            |
| NECHI  | 1980 | 2.67                      | 2.57                        | 2.43                      | 2.95                      | 4.21                     | 4.63                      | 4.2                       | 3.27                       | 2.67                               | 4.83                        | 4.52                           | 3.09                           |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| NECHI  | 1981 | 2.23                      | 2.31                        | 2.42                      | 3.54                      | 8.55                     | 5.6                       | 5.35                      | 3.31                       | 3.97                               | 5.04                        | 4.17                           | 3                              |
| NECHI  | 1982 | 2.42                      | 3.02                        | 3.26                      | 6.18                      | 8.25                     | 4.32                      | 4.67                      | 3.47                       | 3.15                               | 5.18                        | 4.06                           | 3.79                           |
| NECHI  | 1983 | 2.05                      | 2.24                        | 2.23                      | 4.89                      | 7.99                     | 3.9                       | 6.8                       | 3.97                       | 5.46                               | 5.32                        | 4.26                           | 4.48                           |
| NECHI  | 1984 | 2.79                      | 2.78                        | 1.92                      | 2.87                      | 6                        | 6.78                      | 4.73                      | 5.28                       | 7.66                               | 7.42                        | 7.27                           | 4.81                           |
| NECHI  | 1985 | 2.9                       | 2.53                        | 3.4                       | 3.85                      | 7.17                     | 4.09                      | 4.86                      | 5.69                       | 5.97                               | 5.67                        | 4.2                            | 4.46                           |
| NECHI  | 1986 | 3.16                      | 2.88                        | 2.85                      | 5.62                      | 4.74                     | 4.96                      | 3.7                       | 2.97                       | 2.67                               | 6.27                        | 3.46                           | 3.21                           |
| NECHI  | 1987 | 1.14                      | 1.14                        | 0.76                      | 3.27                      | 6.72                     | 4.19                      | 6.71                      | 3.18                       | 5.42                               | 6.99                        | 3.86                           | 3.3                            |
| NECHI  | 1988 | 2.31                      | 2.97                        | 2.37                      | 2.34                      | 3.43                     | 4.06                      | 4.82                      | 7.46                       | 4.31                               | 2.52                        | 3.98                           | 1.88                           |
| NECHI  | 1989 | 1.17                      | 0.95                        | 3.32                      | 3.17                      | 5.74                     | 5.53                      | 5.24                      | 5.57                       | 4.67                               | 6.09                        | 3.59                           | 3.49                           |
| NECHI  | 1990 | 2.25                      | 2.45                        | 2.17                      | 3.1                       | 6.08                     | 4.34                      | 4.25                      | 2.63                       | 2.37                               | 5.87                        | 5.14                           | 3.52                           |
| NECHI  | 1991 | 2.92                      | 2.83                        | 3.29                      | 3.53                      | 11.64                    | 7.22                      | 8.03                      | 2.86                       | 2.2                                | 3.33                        | 3.74                           | 2.86                           |
| NECHI  | 1992 | 1.16                      | 1.23                        | 2.34                      | 1.79                      | 3.2                      | 1.77                      | 2.17                      | 2.82                       | 3.84                               | 3.13                        | 2.45                           | 2.72                           |
| NECHI  | 1993 | 2.5                       | 2                           | 2.87                      | 3.27                      | 5.3                      | 3.02                      | 3.67                      | 3.64                       | 4.73                               | 3.97                        | 3.97                           | 4.09                           |
| NECHI  | 1994 | 4.58                      | 3.86                        | 2.89                      | 5.61                      | 6.71                     | 6.71                      | 5.09                      | 7.7                        | 5.3                                | 6.68                        | 6.15                           | 4.51                           |
| NECHI  | 1995 | 3.13                      | 2.28                        | 2.25                      | 3.42                      | 5.33                     | 5.7                       | 7.27                      | 5.33                       | 5.41                               | 6.13                        | 4.97                           | 6.36                           |
| NECHI  | 1996 | 3.18                      | 3.83                        | 4.88                      | 5.53                      | 10.28                    | 6.02                      | 7.89                      | 6.19                       | 5.25                               | 7.25                        | 6.51                           | 4.58                           |
| NECHI  | 1997 | 3.43                      | 3.66                        | 3.78                      | 5.08                      | 4.56                     | 4.16                      | 2.62                      | 2.17                       | 3.66                               | 2.38                        | 2.79                           | 1.8                            |
| NECHI  | 1998 | 1.49                      | 1.81                        | 2.29                      | 3.56                      | 4.58                     | 4.26                      | 6.96                      | 4.74                       | 5.36                               | 4.87                        | 4.55                           | 4.73                           |
| NECHI  | 1999 | 2.87                      | 4                           | 4.42                      | 6.79                      | 9.46                     | 7.36                      | 6.25                      | 4.33                       | 5.13                               | 7.2                         | 5.9                            | 4.55                           |
| NECHI  | 2000 | 3.01                      | 3.36                        | 2.64                      | 2.92                      | 6.03                     | 5.22                      | 7.77                      | 5.7                        | 7.28                               | 7.08                        | 4.98                           | 4.73                           |
| NECHI  | 2001 | 3.6                       | 3.45                        | 3.71                      | 3.96                      | 7.33                     | 6.49                      | 6.41                      | 3.49                       | 4.53                               | 4.71                        | 5.43                           | 5.3                            |
| NECHI  | 2002 | 3.12                      | 2.65                        | 2.38                      | 2.78                      | 3.73                     | 3.8                       | 2.47                      | 1.73                       | 1.75                               | 2.44                        | 2.09                           | 2.27                           |
| NECHI  | 2003 | 1.56                      | 1.74                        | 1.95                      | 2.86                      | 4.18                     | 3.83                      | 3.04                      | 2.57                       | 2.56                               | 4.96                        | 3.9                            | 3.53                           |
| NECHI  | 2004 | 2.47                      | 2.24                        | 3.17                      | 4.2                       | 6.42                     | 4.16                      | 5.4                       | 3.83                       | 4.36                               | 4.89                        | 6.26                           | 4.24                           |
| NECHI  | 2005 | 3.95                      | 3.79                        | 4.13                      | 5                         | 6.07                     | 5.21                      | 4.21                      | 3.64                       | 3.57                               | 5.17                        | 6.15                           | 3.97                           |
| NECHI  | 2006 | 3.03                      | 3.26                        | 3.68                      | 3.64                      | 9.41                     | 5.9                       | 4.38                      | 4.14                       | 5.25                               | 5.91                        | 6.72                           | 5.21                           |
| NECHI  | 2007 | 4.22                      | 3.66                        | 3.27                      | 5.19                      | 9.59                     | 6.44                      | 6.59                      | 6.82                       | 5.88                               | 8.87                        | 7.09                           | 4.87                           |
| NECHI  | 2008 | 3.76                      | 3.73                        | 3.68                      | 4                         | 5.41                     | 5.63                      | 7.49                      | 4.44                       | 4.98                               | 7.64                        | 6.88                           | 3.13                           |
| NECHI  | 2009 | 4.71                      | 4.14                        | 3.17                      | 4.88                      | 5.35                     | 4.89                      | 3.28                      | 3.35                       | 3.06                               | 3.8                         | 4.84                           | 2.65                           |
| NECHI  | 2010 | 1.82                      | 1.75                        | 1.84                      | 2.95                      | 5.82                     | 5.33                      | 6.75                      | 5.5                        | 6.72                               | 6.42                        | 6.46                           | 5                              |

| Nombre       | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| NECHI        | 2011 | 2.51                      | 2.65                        | 3.7                       | 7.48                      | 7.8                      | 5.91                      | 6.4                       | 5.68                       | 4.85                               | 7.85                        | 7.03                           | 5                              |
| NECHI        | 2012 | 3.9                       | 2.13                        | 2.84                      | 5.72                      | 6.12                     | 3.17                      | 3.76                      | 5.06                       | 2.73                               | 4.72                        | 3.26                           | 2.96                           |
| NECHI        | 2013 | 2.35                      | 2.12                        | 2.03                      | 2.41                      | 4.65                     | 3.33                      | 2.76                      | 4.44                       | 4.79                               | 4.66                        | 3.88                           | 3.8                            |
| NECHI        | 2014 | 2.82                      | 3.02                        | 2.64                      | 4.13                      | 4.91                     | 4.05                      | 2.69                      | 3.67                       | 3.02                               | 4.85                        | 5.25                           | 3.92                           |
| NECHI        | 2015 | 2.82                      | 2.78                        | 2.54                      | 3.2                       | 7.69                     | 3.82                      | 4.05                      | 3.47                       | 2.47                               | 3.01                        | 2.53                           | 2.06                           |
| NECHI        | 2016 | 2.04                      | 1.86                        | 1.92                      | 2.45                      | 3.18                     | 2.68                      | 2.8                       | 3.01                       | 2.92                               | 3.97                        | 4.54                           | 3.29                           |
| NECHI        | 2017 | 2.41                      | 1.95                        | 2.22                      | 2.05                      | 4.84                     | 4.18                      | 3.05                      | 2.71                       | 3.55                               | 3.32                        | 3.24                           | 2.37                           |
| PAJARI<br>TO | 1955 | 2.32                      | 1.61                        | 2.01                      | 2.59                      | 3.95                     | 3.47                      | 3.75                      | 3.63                       | 4.2                                | 5.85                        | 4.27                           | 3.08                           |
| PAJARI<br>TO | 1956 | 2.76                      | 2.33                        | 2.38                      | 2.82                      | 4.53                     | 4.37                      | 2.99                      | 4.18                       | 3.78                               | 4.91                        | 4.5                            | 2.61                           |
| PAJARI<br>TO | 1957 | 1.96                      | 1.64                        | 1.47                      | 2.14                      | 3.39                     | 2.35                      | 2.13                      | 2.55                       | 2.8                                | 3.74                        | 2.87                           | 2.17                           |
| PAJARI<br>TO | 1958 | 1.49                      | 1.08                        | 1.37                      | 1.25                      | 2.6                      | 1.47                      | 1.33                      | 2.32                       | 1.58                               | 2.05                        | 1.55                           | 1.48                           |
| PAJARI<br>TO | 1959 | 0.98                      | 0.77                        | 0.96                      | 1.22                      | 2.16                     | 2.16                      | 2.45                      | 2.33                       | 3.28                               | 3.63                        | 3.46                           | 2.13                           |
| PAJARI<br>TO | 1960 | 1.72                      | 1.34                        | 1.32                      | 2.04                      | 2.67                     | 2.65                      | 2.67                      | 2.92                       | 3.52                               | 3.39                        | 2.86                           | 2.94                           |
| PAJARI<br>TO | 1961 | 1.67                      | 1.33                        | 1.43                      | 2.22                      | 2.32                     | 2.83                      | 2.8                       | 2.47                       | 3.47                               | 3.28                        | 3.88                           | 2.31                           |
| PAJARI<br>TO | 1962 | 1.77                      | 1.35                        | 1.65                      | 1.73                      | 3.86                     | 2.84                      | 2.79                      | 3.44                       | 3.47                               | 3.66                        | 3.67                           | 2.16                           |
| PAJARI<br>TO | 1963 | 1.76                      | 1.66                        | 1.98                      | 2.83                      | 3.75                     | 2.79                      | 3.89                      | 3.11                       | 3.24                               | 3.97                        | 3.53                           | 2.28                           |
| PAJARI<br>TO | 1964 | 1.66                      | 1.41                        | 1.63                      | 2.29                      | 2.79                     | 2.84                      | 3.2                       | 3.33                       | 3.58                               | 3.56                        | 3.18                           | 2.26                           |
| PAJARI<br>TO | 1965 | 1.83                      | 1.37                        | 1.51                      | 2.05                      | 3.14                     | 2.16                      | 2.07                      | 2.82                       | 3.75                               | 3.47                        | 3.21                           | 2.09                           |
| PAJARI<br>TO | 1966 | 1.88                      | 1.26                        | 1.54                      | 1.85                      | 2.62                     | 3.14                      | 2.5                       | 3.36                       | 3.68                               | 3.81                        | 3.5                            | 2.82                           |
| PAJARI<br>TO | 1967 | 1.99                      | 1.48                        | 1.51                      | 2.67                      | 4.31                     | 4.92                      | 4.8                       | 3.55                       | 3.23                               | 3.35                        | 2.67                           | 1.86                           |

| Nombre       | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| PAJARI<br>TO | 1968 | 1.63                      | 1.26                        | 1.51                      | 1.89                      | 2.88                     | 3.32                      | 2.92                      | 3.67                       | 3.91                               | 4                           | 3.26                           | 2.28                           |
| PAJARI<br>TO | 1969 | 1.68                      | 1.26                        | 1.26                      | 2.73                      | 3.37                     | 1.89                      | 1.58                      | 3.94                       | 3.78                               | 4.81                        | 5.1                            | 2.44                           |
| PAJARI<br>TO | 1970 | 2.07                      | 1.47                        | 1.62                      | 2.38                      | 4.27                     | 2.92                      | 2.7                       | 2.91                       | 4.68                               | 5.99                        | 4.87                           | 3.43                           |
| PAJARI<br>TO | 1971 | 3.22                      | 2.78                        | 3.4                       | 3.01                      | 5.47                     | 3.85                      | 4.75                      | 6.24                       | 4.67                               | 5.02                        | 3.73                           | 2.27                           |
| PAJARI<br>TO | 1972 | 2.27                      | 1.68                        | 1.81                      | 2.75                      | 5.13                     | 3.59                      | 2.81                      | 3.39                       | 3.27                               | 4.36                        | 2.75                           | 2.29                           |
| PAJARI<br>TO | 1973 | 1.63                      | 1.28                        | 1.4                       | 1.74                      | 2.83                     | 2.24                      | 2.33                      | 2.69                       | 3.58                               | 3.62                        | 3.83                           | 2.89                           |
| PAJARI<br>TO | 1974 | 2.25                      | 1.77                        | 1.93                      | 2.36                      | 3.55                     | 2.4                       | 2.78                      | 3.44                       | 4.25                               | 4.6                         | 4.12                           | 2.55                           |
| PAJARI<br>TO | 1975 | 2                         | 1.67                        | 2.17                      | 2.18                      | 3.45                     | 3.73                      | 3.88                      | 5.1                        | 5.44                               | 5.98                        | 5.32                           | 4.18                           |
| PAJARI<br>TO | 1976 | 2.46                      | 1.94                        | 2.28                      | 3.18                      | 4.51                     | 3.34                      | 2.32                      | 3.56                       | 2.68                               | 4.57                        | 3.31                           | 1.86                           |
| PAJARI<br>TO | 1977 | 1.41                      | 1.19                        | 1.21                      | 1.51                      | 2.41                     | 3.16                      | 2.86                      | 3.55                       | 3.12                               | 3.19                        | 2.6                            | 2.06                           |
| PAJARI<br>TO | 1978 | 1.44                      | 1.17                        | 1.43                      | 3.19                      | 2.74                     | 3.3                       | 3                         | 2.61                       | 3.02                               | 3.62                        | 3.29                           | 2.68                           |
| PAJARI<br>TO | 1979 | 1.64                      | 1.4                         | 1.45                      | 2.06                      | 3.13                     | 3.7                       | 1.8                       | 2.33                       | 2.82                               | 4.78                        | 4.68                           | 2.75                           |
| PAJARI<br>TO | 1980 | 1.91                      | 1.62                        | 1.67                      | 1.88                      | 2.83                     | 3.27                      | 2.94                      | 2.82                       | 2.49                               | 4.09                        | 3.71                           | 2.23                           |
| PAJARI<br>TO | 1981 | 1.6                       | 1.45                        | 1.65                      | 2.27                      | 5.74                     | 3.95                      | 3.74                      | 2.86                       | 3.7                                | 4.26                        | 3.42                           | 2.17                           |
| PAJARI<br>TO | 1982 | 1.74                      | 1.9                         | 2.23                      | 3.95                      | 5.54                     | 3.05                      | 3.27                      | 2.99                       | 2.93                               | 4.39                        | 3.33                           | 2.73                           |
| PAJARI<br>TO | 1983 | 1.47                      | 1.41                        | 1.52                      | 3.13                      | 5.37                     | 2.75                      | 4.76                      | 3.43                       | 5.08                               | 4.51                        | 3.49                           | 3.24                           |
| PAJARI<br>TO | 1984 | 2                         | 1.75                        | 1.31                      | 1.83                      | 4.03                     | 4.79                      | 3.31                      | 4.56                       | 7.13                               | 6.27                        | 5.96                           | 3.47                           |

| Nombre       | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| PAJARI<br>TO | 1985 | 2.08                      | 1.59                        | 2.32                      | 2.46                      | 4.82                     | 2.88                      | 3.4                       | 4.92                       | 5.55                               | 4.8                         | 3.44                           | 3.22                           |
| PAJARI<br>TO | 1986 | 2.26                      | 1.82                        | 1.95                      | 3.6                       | 3.19                     | 3.5                       | 2.59                      | 2.57                       | 2.48                               | 5.31                        | 2.83                           | 2.32                           |
| PAJARI<br>TO | 1987 | 0.82                      | 0.72                        | 0.52                      | 2.09                      | 4.51                     | 2.96                      | 4.69                      | 2.75                       | 5.04                               | 5.91                        | 3.16                           | 2.39                           |
| PAJARI<br>TO | 1988 | 1.66                      | 1.87                        | 1.62                      | 1.5                       | 2.3                      | 2.87                      | 3.37                      | 6.44                       | 4.01                               | 2.13                        | 3.26                           | 1.36                           |
| PAJARI<br>TO | 1989 | 0.84                      | 0.6                         | 2.27                      | 2.02                      | 3.85                     | 3.9                       | 3.66                      | 4.81                       | 4.34                               | 5.16                        | 2.94                           | 2.52                           |
| PAJARI<br>TO | 1990 | 1.61                      | 1.54                        | 1.49                      | 1.98                      | 4.09                     | 3.06                      | 2.98                      | 2.27                       | 2.2                                | 4.97                        | 4.21                           | 2.54                           |
| PAJARI<br>TO | 1991 | 2.09                      | 1.78                        | 2.25                      | 2.25                      | 7.82                     | 5.1                       | 5.62                      | 2.47                       | 2.04                               | 2.82                        | 3.06                           | 2.06                           |
| PAJARI<br>TO | 1992 | 0.83                      | 0.78                        | 1.6                       | 1.15                      | 2.15                     | 1.25                      | 1.52                      | 2.43                       | 3.58                               | 2.65                        | 2                              | 1.96                           |
| PAJARI<br>TO | 1993 | 1.79                      | 1.26                        | 1.97                      | 2.09                      | 3.56                     | 2.13                      | 2.57                      | 3.15                       | 4.4                                | 3.36                        | 3.25                           | 2.96                           |
| PAJARI<br>TO | 1994 | 3.29                      | 2.43                        | 1.98                      | 3.58                      | 4.5                      | 4.73                      | 3.56                      | 6.65                       | 4.93                               | 5.65                        | 5.04                           | 3.26                           |
| PAJARI<br>TO | 1995 | 2.25                      | 1.44                        | 1.54                      | 2.18                      | 3.58                     | 4.02                      | 5.09                      | 4.6                        | 5.03                               | 5.18                        | 4.08                           | 4.59                           |
| PAJARI<br>TO | 1996 | 2.28                      | 2.41                        | 3.34                      | 3.53                      | 6.91                     | 4.25                      | 5.52                      | 5.34                       | 4.89                               | 6.13                        | 5.34                           | 3.31                           |
| PAJARI<br>TO | 1997 | 2.46                      | 2.31                        | 2.59                      | 3.24                      | 3.06                     | 2.93                      | 1.83                      | 1.88                       | 3.4                                | 2.02                        | 2.29                           | 1.3                            |
| PAJARI<br>TO | 1998 | 1.07                      | 1.14                        | 1.57                      | 2.27                      | 3.08                     | 3.01                      | 4.87                      | 4.09                       | 4.98                               | 4.12                        | 3.73                           | 3.42                           |
| PAJARI<br>TO | 1999 | 2.06                      | 2.52                        | 3.03                      | 4.34                      | 6.35                     | 5.2                       | 4.37                      | 3.74                       | 4.77                               | 6.09                        | 4.84                           | 3.29                           |
| PAJARI<br>TO | 2000 | 2.16                      | 2.12                        | 1.81                      | 1.86                      | 4.05                     | 3.68                      | 5.44                      | 4.92                       | 6.77                               | 5.99                        | 4.08                           | 3.42                           |
| PAJARI<br>TO | 2001 | 2.58                      | 2.17                        | 2.54                      | 2.53                      | 4.92                     | 4.58                      | 4.48                      | 3.02                       | 4.21                               | 3.99                        | 4.45                           | 3.83                           |

| Nombre       | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| PAJARI<br>TO | 2002 | 2.23                      | 1.67                        | 1.63                      | 1.78                      | 2.5                      | 2.68                      | 1.73                      | 1.5                        | 1.63                               | 2.07                        | 1.71                           | 1.64                           |
| PAJARI<br>TO | 2003 | 1.12                      | 1.09                        | 1.33                      | 1.83                      | 2.81                     | 2.7                       | 2.12                      | 2.22                       | 2.38                               | 4.2                         | 3.19                           | 2.55                           |
| PAJARI<br>TO | 2004 | 1.77                      | 1.41                        | 2.17                      | 2.69                      | 4.31                     | 2.94                      | 3.78                      | 3.31                       | 4.06                               | 4.14                        | 5.13                           | 3.06                           |
| PAJARI<br>TO | 2005 | 2.83                      | 2.39                        | 2.82                      | 3.19                      | 4.08                     | 3.68                      | 2.94                      | 3.14                       | 3.32                               | 4.38                        | 5.04                           | 2.87                           |
| PAJARI<br>TO | 2006 | 2.17                      | 2.05                        | 2.52                      | 2.32                      | 6.32                     | 4.17                      | 3.07                      | 3.58                       | 4.89                               | 5                           | 5.51                           | 3.76                           |
| PAJARI<br>TO | 2007 | 3.03                      | 2.31                        | 2.24                      | 3.32                      | 6.44                     | 4.55                      | 4.61                      | 5.89                       | 5.47                               | 7.51                        | 5.81                           | 3.51                           |
| PAJARI<br>TO | 2008 | 2.7                       | 2.35                        | 2.52                      | 2.56                      | 3.63                     | 3.97                      | 5.24                      | 3.83                       | 4.63                               | 6.46                        | 5.64                           | 2.26                           |
| PAJARI<br>TO | 2009 | 3.37                      | 2.61                        | 2.17                      | 3.12                      | 3.59                     | 3.45                      | 2.29                      | 2.89                       | 2.84                               | 3.21                        | 3.96                           | 1.91                           |
| PAJARI<br>TO | 2010 | 1.31                      | 1.1                         | 1.26                      | 1.89                      | 3.91                     | 3.76                      | 4.73                      | 4.75                       | 6.25                               | 5.43                        | 5.3                            | 3.61                           |
| PAJARI<br>TO | 2011 | 1.8                       | 1.67                        | 2.53                      | 4.79                      | 5.24                     | 4.17                      | 4.48                      | 4.91                       | 4.51                               | 6.64                        | 5.76                           | 3.61                           |
| PAJARI<br>TO | 2012 | 2.8                       | 1.34                        | 1.94                      | 3.66                      | 4.11                     | 2.24                      | 2.63                      | 4.37                       | 2.54                               | 3.99                        | 2.67                           | 2.14                           |
| PAJARI<br>TO | 2013 | 1.68                      | 1.33                        | 1.39                      | 1.54                      | 3.12                     | 2.35                      | 1.93                      | 3.83                       | 4.46                               | 3.94                        | 3.18                           | 2.74                           |
| PAJARI<br>TO | 2014 | 2.03                      | 1.9                         | 1.81                      | 2.64                      | 3.3                      | 2.86                      | 1.88                      | 3.17                       | 2.81                               | 4.1                         | 4.3                            | 2.83                           |
| PAJARI<br>TO | 2015 | 2.02                      | 1.75                        | 1.74                      | 2.05                      | 5.17                     | 2.7                       | 2.83                      | 3                          | 2.3                                | 2.55                        | 2.07                           | 1.49                           |
| PAJARI<br>TO | 2016 | 1.46                      | 1.17                        | 1.31                      | 1.56                      | 2.13                     | 1.89                      | 1.96                      | 2.6                        | 2.72                               | 3.36                        | 3.72                           | 2.38                           |
| PAJARI<br>TO | 2017 | 1.73                      | 1.23                        | 1.52                      | 1.31                      | 3.25                     | 2.95                      | 2.13                      | 2.34                       | 3.3                                | 2.81                        | 2.66                           | 1.71                           |
| DOLOR<br>ES  | 1955 | 3.97                      | 2.74                        | 3.04                      | 3.72                      | 4.92                     | 5.6                       | 6.31                      | 5.34                       | 6.19                               | 7.45                        | 6.15                           | 4.66                           |

| Nombre      | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|-------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| DOLOR<br>ES | 1956 | 4.71                      | 3.98                        | 3.6                       | 4.05                      | 5.63                     | 7.04                      | 5.04                      | 6.17                       | 5.58                               | 6.26                        | 6.48                           | 3.95                           |
| DOLOR<br>ES | 1957 | 3.36                      | 2.79                        | 2.22                      | 3.07                      | 4.22                     | 3.79                      | 3.59                      | 3.75                       | 4.14                               | 4.76                        | 4.12                           | 3.29                           |
| DOLOR<br>ES | 1958 | 2.55                      | 1.84                        | 2.08                      | 1.8                       | 3.24                     | 2.37                      | 2.24                      | 3.42                       | 2.34                               | 2.61                        | 2.24                           | 2.24                           |
| DOLOR<br>ES | 1959 | 1.67                      | 1.31                        | 1.46                      | 1.75                      | 2.69                     | 3.49                      | 4.13                      | 3.43                       | 4.84                               | 4.62                        | 4.98                           | 3.22                           |
| DOLOR<br>ES | 1960 | 2.94                      | 2.29                        | 2                         | 2.92                      | 3.33                     | 4.27                      | 4.51                      | 4.3                        | 5.19                               | 4.32                        | 4.11                           | 4.45                           |
| DOLOR<br>ES | 1961 | 2.86                      | 2.27                        | 2.17                      | 3.19                      | 2.88                     | 4.55                      | 4.73                      | 3.63                       | 5.12                               | 4.17                        | 5.59                           | 3.5                            |
| DOLOR<br>ES | 1962 | 3.03                      | 2.3                         | 2.5                       | 2.49                      | 4.8                      | 4.57                      | 4.7                       | 5.06                       | 5.12                               | 4.66                        | 5.27                           | 3.27                           |
| DOLOR<br>ES | 1963 | 3.01                      | 2.82                        | 2.99                      | 4.06                      | 4.66                     | 4.5                       | 6.55                      | 4.59                       | 4.77                               | 5.06                        | 5.08                           | 3.45                           |
| DOLOR<br>ES | 1964 | 2.83                      | 2.41                        | 2.46                      | 3.29                      | 3.47                     | 4.58                      | 5.39                      | 4.91                       | 5.28                               | 4.52                        | 4.57                           | 3.42                           |
| DOLOR<br>ES | 1965 | 3.13                      | 2.34                        | 2.28                      | 2.94                      | 3.91                     | 3.47                      | 3.48                      | 4.16                       | 5.53                               | 4.42                        | 4.61                           | 3.16                           |
| DOLOR<br>ES | 1966 | 3.22                      | 2.15                        | 2.33                      | 2.65                      | 3.26                     | 5.06                      | 4.21                      | 4.96                       | 5.42                               | 4.86                        | 5.03                           | 4.27                           |
| DOLOR<br>ES | 1967 | 3.4                       | 2.52                        | 2.28                      | 3.84                      | 5.36                     | 7.93                      | 8.09                      | 5.23                       | 4.76                               | 4.27                        | 3.84                           | 2.82                           |
| DOLOR<br>ES | 1968 | 2.78                      | 2.16                        | 2.29                      | 2.72                      | 3.58                     | 5.35                      | 4.92                      | 5.4                        | 5.76                               | 5.1                         | 4.7                            | 3.45                           |
| DOLOR<br>ES | 1969 | 2.88                      | 2.15                        | 1.9                       | 3.93                      | 4.19                     | 3.04                      | 2.66                      | 5.81                       | 5.57                               | 6.12                        | 7.33                           | 3.69                           |
| DOLOR<br>ES | 1970 | 3.54                      | 2.51                        | 2.45                      | 3.41                      | 5.31                     | 4.7                       | 4.55                      | 4.29                       | 6.9                                | 7.63                        | 7.01                           | 5.19                           |
| DOLOR<br>ES | 1971 | 5.51                      | 4.74                        | 5.15                      | 4.33                      | 6.8                      | 6.21                      | 8.01                      | 9.2                        | 6.89                               | 6.39                        | 5.36                           | 3.43                           |
| DOLOR<br>ES | 1972 | 3.88                      | 2.87                        | 2.73                      | 3.94                      | 6.38                     | 5.78                      | 4.74                      | 5                          | 4.82                               | 5.56                        | 3.95                           | 3.46                           |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| DOLOR<br>ES   | 1973       | 2.79                               | 2.18                                 | 2.12                               | 2.49                               | 3.52                              | 3.6                                | 3.93                               | 3.96                                | 5.28                                         | 4.61                                 | 5.51                                    | 4.37                                    |
| DOLOR<br>ES   | 1974       | 3.85                               | 3.02                                 | 2.91                               | 3.39                               | 4.41                              | 3.87                               | 4.68                               | 5.06                                | 6.27                                         | 5.85                                 | 5.92                                    | 3.86                                    |
| DOLOR<br>ES   | 1975       | 3.42                               | 2.85                                 | 3.28                               | 3.13                               | 4.29                              | 6                                  | 6.54                               | 7.51                                | 8.02                                         | 7.6                                  | 7.66                                    | 6.32                                    |
| DOLOR<br>ES   | 1976       | 4.21                               | 3.31                                 | 3.45                               | 4.57                               | 5.61                              | 5.39                               | 3.91                               | 5.25                                | 3.95                                         | 5.82                                 | 4.76                                    | 2.81                                    |
| DOLOR<br>ES   | 1977       | 2.41                               | 2.04                                 | 1.83                               | 2.16                               | 3                                 | 5.09                               | 4.81                               | 5.23                                | 4.61                                         | 4.07                                 | 3.74                                    | 3.11                                    |
| DOLOR<br>ES   | 1978       | 2.46                               | 1.99                                 | 2.17                               | 4.59                               | 3.41                              | 5.32                               | 5.06                               | 3.85                                | 4.45                                         | 4.61                                 | 4.74                                    | 4.05                                    |
| DOLOR<br>ES   | 1979       | 2.81                               | 2.38                                 | 2.19                               | 2.95                               | 3.89                              | 5.96                               | 3.04                               | 3.44                                | 4.16                                         | 6.09                                 | 6.73                                    | 4.15                                    |
| DOLOR<br>ES   | 1980       | 3.27                               | 2.76                                 | 2.52                               | 2.7                                | 3.52                              | 5.27                               | 4.95                               | 4.16                                | 3.67                                         | 5.2                                  | 5.33                                    | 3.37                                    |
| DOLOR<br>ES   | 1981       | 2.73                               | 2.48                                 | 2.5                                | 3.25                               | 7.15                              | 6.37                               | 6.31                               | 4.22                                | 5.45                                         | 5.43                                 | 4.92                                    | 3.28                                    |
| DOLOR<br>ES   | 1982       | 2.97                               | 3.24                                 | 3.37                               | 5.67                               | 6.9                               | 4.92                               | 5.5                                | 4.41                                | 4.32                                         | 5.58                                 | 4.79                                    | 4.14                                    |
| DOLOR<br>ES   | 1983       | 2.52                               | 2.4                                  | 2.31                               | 4.49                               | 6.68                              | 4.44                               | 8.02                               | 5.05                                | 7.49                                         | 5.73                                 | 5.02                                    | 4.9                                     |
| DOLOR<br>ES   | 1984       | 3.43                               | 2.98                                 | 1.99                               | 2.63                               | 5.01                              | 7.71                               | 5.58                               | 6.72                                | 10.51                                        | 7.99                                 | 8.57                                    | 5.25                                    |
| DOLOR<br>ES   | 1985       | 3.56                               | 2.71                                 | 3.52                               | 3.53                               | 5.99                              | 4.65                               | 5.73                               | 7.25                                | 8.19                                         | 6.11                                 | 4.95                                    | 4.87                                    |
| DOLOR<br>ES   | 1986       | 3.87                               | 3.1                                  | 2.95                               | 5.16                               | 3.96                              | 5.64                               | 4.37                               | 3.78                                | 3.66                                         | 6.75                                 | 4.08                                    | 3.51                                    |
| DOLOR<br>ES   | 1987       | 1.4                                | 1.23                                 | 0.78                               | 3                                  | 5.62                              | 4.76                               | 7.91                               | 4.05                                | 7.43                                         | 7.53                                 | 4.55                                    | 3.61                                    |
| DOLOR<br>ES   | 1988       | 2.83                               | 3.19                                 | 2.45                               | 2.15                               | 2.87                              | 4.62                               | 5.69                               | 9.49                                | 5.92                                         | 2.71                                 | 4.69                                    | 2.06                                    |
| DOLOR<br>ES   | 1989       | 1.44                               | 1.02                                 | 3.44                               | 2.91                               | 4.79                              | 6.29                               | 6.18                               | 7.09                                | 6.4                                          | 6.56                                 | 4.23                                    | 3.81                                    |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| DOLOR<br>ES   | 1990       | 2.76                               | 2.63                                 | 2.25                               | 2.84                               | 5.08                              | 4.93                               | 5.02                               | 3.34                                | 3.25                                         | 6.32                                 | 6.07                                    | 3.84                                    |
| DOLOR<br>ES   | 1991       | 3.58                               | 3.04                                 | 3.4                                | 3.24                               | 9.73                              | 8.21                               | 9.47                               | 3.63                                | 3.01                                         | 3.58                                 | 4.41                                    | 3.12                                    |
| DOLOR<br>ES   | 1992       | 1.42                               | 1.32                                 | 2.42                               | 1.65                               | 2.68                              | 2.02                               | 2.56                               | 3.58                                | 5.27                                         | 3.37                                 | 2.89                                    | 2.97                                    |
| DOLOR<br>ES   | 1993       | 3.06                               | 2.15                                 | 2.97                               | 3                                  | 4.43                              | 3.43                               | 4.33                               | 4.64                                | 6.49                                         | 4.28                                 | 4.68                                    | 4.47                                    |
| DOLOR<br>ES   | 1994       | 5.62                               | 4.15                                 | 2.99                               | 5.15                               | 5.61                              | 7.63                               | 6                                  | 9.8                                 | 7.27                                         | 7.2                                  | 7.26                                    | 4.93                                    |
| DOLOR<br>ES   | 1995       | 3.84                               | 2.45                                 | 2.32                               | 3.14                               | 4.45                              | 6.48                               | 8.57                               | 6.78                                | 7.42                                         | 6.6                                  | 5.86                                    | 6.95                                    |
| DOLOR<br>ES   | 1996       | 3.9                                | 4.11                                 | 5.06                               | 5.07                               | 8.6                               | 6.85                               | 9.31                               | 7.87                                | 7.21                                         | 7.81                                 | 7.68                                    | 5                                       |
| DOLOR<br>ES   | 1997       | 4.21                               | 3.93                                 | 3.91                               | 4.66                               | 3.81                              | 4.73                               | 3.09                               | 2.77                                | 5.02                                         | 2.56                                 | 3.29                                    | 1.96                                    |
| DOLOR<br>ES   | 1998       | 1.83                               | 1.95                                 | 2.37                               | 3.26                               | 3.83                              | 4.84                               | 8.21                               | 6.03                                | 7.35                                         | 5.25                                 | 5.36                                    | 5.17                                    |
| DOLOR<br>ES   | 1999       | 3.52                               | 4.3                                  | 4.58                               | 6.23                               | 7.91                              | 8.38                               | 7.37                               | 5.51                                | 7.04                                         | 7.75                                 | 6.96                                    | 4.97                                    |
| DOLOR<br>ES   | 2000       | 3.69                               | 3.61                                 | 2.73                               | 2.68                               | 5.04                              | 5.93                               | 9.17                               | 7.26                                | 9.99                                         | 7.62                                 | 5.87                                    | 5.17                                    |
| DOLOR<br>ES   | 2001       | 4.42                               | 3.7                                  | 3.84                               | 3.63                               | 6.13                              | 7.38                               | 7.56                               | 4.45                                | 6.21                                         | 5.07                                 | 6.4                                     | 5.79                                    |
| DOLOR<br>ES   | 2002       | 3.82                               | 2.85                                 | 2.47                               | 2.55                               | 3.11                              | 4.32                               | 2.91                               | 2.21                                | 2.4                                          | 2.63                                 | 2.47                                    | 2.48                                    |
| DOLOR<br>ES   | 2003       | 1.91                               | 1.87                                 | 2.02                               | 2.63                               | 3.49                              | 4.36                               | 3.58                               | 3.27                                | 3.51                                         | 5.34                                 | 4.6                                     | 3.85                                    |
| DOLOR<br>ES   | 2004       | 3.03                               | 2.41                                 | 3.29                               | 3.86                               | 5.36                              | 4.73                               | 6.37                               | 4.87                                | 5.99                                         | 5.26                                 | 7.38                                    | 4.63                                    |
| DOLOR<br>ES   | 2005       | 4.85                               | 4.07                                 | 4.27                               | 4.59                               | 5.07                              | 5.93                               | 4.96                               | 4.63                                | 4.9                                          | 5.57                                 | 7.26                                    | 4.34                                    |
| DOLOR<br>ES   | 2006       | 3.71                               | 3.5                                  | 3.81                               | 3.34                               | 7.86                              | 6.71                               | 5.17                               | 5.27                                | 7.21                                         | 6.36                                 | 7.93                                    | 5.69                                    |

| <b>Nombre</b>  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| DOLOR<br>ES    | 2007       | 5.18                               | 3.93                                 | 3.39                               | 4.77                               | 8.01                              | 7.33                               | 7.78                               | 8.69                                | 8.07                                         | 9.55                                 | 8.37                                    | 5.32                                    |
| DOLOR<br>ES    | 2008       | 4.62                               | 4.01                                 | 3.81                               | 3.67                               | 4.52                              | 6.4                                | 8.84                               | 5.64                                | 6.83                                         | 8.23                                 | 8.11                                    | 3.42                                    |
| DOLOR<br>ES    | 2009       | 5.77                               | 4.45                                 | 3.28                               | 4.48                               | 4.47                              | 5.56                               | 3.86                               | 4.26                                | 4.19                                         | 4.09                                 | 5.71                                    | 2.9                                     |
| DOLOR<br>ES    | 2010       | 2.24                               | 1.88                                 | 1.9                                | 2.71                               | 4.86                              | 6.06                               | 7.97                               | 6.99                                | 9.22                                         | 6.92                                 | 7.62                                    | 5.46                                    |
| DOLOR<br>ES    | 2011       | 3.08                               | 2.84                                 | 3.83                               | 6.87                               | 6.52                              | 6.72                               | 7.55                               | 7.24                                | 6.65                                         | 8.45                                 | 8.29                                    | 5.46                                    |
| DOLOR<br>ES    | 2012       | 4.78                               | 2.29                                 | 2.94                               | 5.25                               | 5.11                              | 3.61                               | 4.43                               | 6.43                                | 3.74                                         | 5.08                                 | 3.84                                    | 3.24                                    |
| DOLOR<br>ES    | 2013       | 2.88                               | 2.27                                 | 2.1                                | 2.21                               | 3.89                              | 3.78                               | 3.26                               | 5.65                                | 6.57                                         | 5.02                                 | 4.58                                    | 4.15                                    |
| DOLOR<br>ES    | 2014       | 3.46                               | 3.24                                 | 2.73                               | 3.79                               | 4.1                               | 4.61                               | 3.17                               | 4.66                                | 4.14                                         | 5.22                                 | 6.19                                    | 4.28                                    |
| DOLOR<br>ES    | 2015       | 3.46                               | 2.98                                 | 2.63                               | 2.94                               | 6.43                              | 4.34                               | 4.77                               | 4.42                                | 3.39                                         | 3.24                                 | 2.99                                    | 2.25                                    |
| DOLOR<br>ES    | 2016       | 2.5                                | 2                                    | 1.99                               | 2.25                               | 2.65                              | 3.05                               | 3.3                                | 3.84                                | 4.01                                         | 4.27                                 | 5.36                                    | 3.59                                    |
| DOLOR<br>ES    | 2017       | 2.96                               | 2.09                                 | 2.3                                | 1.88                               | 4.05                              | 4.76                               | 3.59                               | 3.44                                | 4.87                                         | 3.57                                 | 3.82                                    | 2.58                                    |
| QUEBR<br>ADONA | 1942       | 0.24                               | 0.25                                 | 0.37                               | 0.67                               | 0.8                               | 0.55                               | 0.44                               | 0.52                                | 0.46                                         | 0.78                                 | 0.77                                    | 0.54                                    |
| QUEBR<br>ADONA | 1943       | 0.51                               | 0.43                                 | 0.45                               | 0.94                               | 0.72                              | 0.59                               | 0.42                               | 0.45                                | 0.42                                         | 0.81                                 | 0.63                                    | 0.41                                    |
| QUEBR<br>ADONA | 1944       | 0.31                               | 0.31                                 | 0.32                               | 0.32                               | 0.85                              | 0.93                               | 0.46                               | 0.43                                | 0.58                                         | 0.76                                 | 0.58                                    | 0.36                                    |
| QUEBR<br>ADONA | 1945       | 0.29                               | 0.21                                 | 0.27                               | 0.51                               | 0.8                               | 0.41                               | 0.44                               | 0.62                                | 0.42                                         | 0.59                                 | 0.58                                    | 0.6                                     |
| QUEBR<br>ADONA | 1946       | 0.54                               | 0.32                                 | 0.42                               | 0.64                               | 0.58                              | 0.37                               | 0.3                                | 0.37                                | 0.36                                         | 0.47                                 | 0.47                                    | 0.48                                    |
| QUEBR<br>ADONA | 1947       | 0.35                               | 0.26                                 | 0.22                               | 0.29                               | 0.45                              | 0.5                                | 0.53                               | 0.42                                | 0.52                                         | 0.68                                 | 0.46                                    | 0.34                                    |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| QUEBRADONA    | 1948       | 0.25                               | 0.22                                 | 0.24                               | 0.51                               | 0.57                              | 0.51                               | 0.64                               | 0.36                                | 0.33                                         | 0.36                                 | 0.62                                    | 0.35                                    |
| QUEBRADONA    | 1949       | 0.2                                | 0.22                                 | 0.29                               | 0.36                               | 0.47                              | 0.39                               | 0.58                               | 0.45                                | 0.42                                         | 0.66                                 | 0.6                                     | 0.47                                    |
| QUEBRADONA    | 1950       | 0.27                               | 0.32                                 | 0.35                               | 0.32                               | 0.55                              | 0.86                               | 0.58                               | 0.88                                | 0.51                                         | 0.7                                  | 0.6                                     | 0.62                                    |
| QUEBRADONA    | 1951       | 0.42                               | 0.51                                 | 0.4                                | 0.5                                | 0.52                              | 0.41                               | 0.5                                | 0.42                                | 0.43                                         | 0.41                                 | 0.48                                    | 0.35                                    |
| QUEBRADONA    | 1952       | 0.28                               | 0.24                                 | 0.28                               | 0.38                               | 0.44                              | 0.4                                | 0.45                               | 0.7                                 | 0.67                                         | 0.57                                 | 0.71                                    | 0.36                                    |
| QUEBRADONA    | 1953       | 0.24                               | 0.23                                 | 0.2                                | 0.3                                | 0.52                              | 0.38                               | 0.28                               | 0.23                                | 0.33                                         | 0.53                                 | 0.67                                    | 0.49                                    |
| QUEBRADONA    | 1954       | 0.23                               | 0.26                                 | 0.21                               | 0.4                                | 0.48                              | 0.6                                | 0.76                               | 0.56                                | 0.44                                         | 0.77                                 | 0.68                                    | 0.56                                    |
| QUEBRADONA    | 1955       | 0.37                               | 0.34                                 | 0.42                               | 0.56                               | 0.64                              | 0.68                               | 0.57                               | 0.57                                | 0.67                                         | 0.88                                 | 0.84                                    | 0.75                                    |
| QUEBRADONA    | 1956       | 0.61                               | 0.78                                 | 0.55                               | 0.65                               | 0.8                               | 0.81                               | 0.63                               | 0.71                                | 0.66                                         | 0.96                                 | 0.64                                    | 0.59                                    |
| QUEBRADONA    | 1957       | 0.36                               | 0.36                                 | 0.29                               | 0.54                               | 0.65                              | 0.45                               | 0.41                               | 0.46                                | 0.5                                          | 0.66                                 | 0.57                                    | 0.35                                    |
| QUEBRADONA    | 1958       | 0.27                               | 0.21                                 | 0.27                               | 0.29                               | 0.5                               | 0.32                               | 0.21                               | 0.38                                | 0.23                                         | 0.4                                  | 0.37                                    | 0.38                                    |
| QUEBRADONA    | 1959       | 0.2                                | 0.16                                 | 0.22                               | 0.32                               | 0.39                              | 0.41                               | 0.41                               | 0.39                                | 0.51                                         | 0.57                                 | 0.6                                     | 0.32                                    |
| QUEBRADONA    | 1960       | 0.3                                | 0.28                                 | 0.28                               | 0.49                               | 0.5                               | 0.42                               | 0.49                               | 0.46                                | 0.56                                         | 0.57                                 | 0.56                                    | 0.5                                     |
| QUEBRADONA    | 1961       | 0.27                               | 0.28                                 | 0.3                                | 0.47                               | 0.35                              | 0.47                               | 0.43                               | 0.34                                | 0.48                                         | 0.48                                 | 0.72                                    | 0.39                                    |
| QUEBRADONA    | 1962       | 0.3                                | 0.26                                 | 0.34                               | 0.42                               | 0.78                              | 0.58                               | 0.47                               | 0.57                                | 0.56                                         | 0.67                                 | 0.63                                    | 0.43                                    |
| QUEBRADONA    | 1963       | 0.31                               | 0.37                                 | 0.39                               | 0.71                               | 0.74                              | 0.49                               | 0.58                               | 0.51                                | 0.45                                         | 0.61                                 | 0.73                                    | 0.4                                     |
| QUEBRADONA    | 1964       | 0.29                               | 0.31                                 | 0.27                               | 0.54                               | 0.44                              | 0.61                               | 0.57                               | 0.54                                | 0.63                                         | 0.59                                 | 0.64                                    | 0.43                                    |

| <b>Nombre</b>  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| QUEBR<br>ADONA | 1965       | 0.33                               | 0.26                                 | 0.22                               | 0.39                               | 0.48                              | 0.37                               | 0.29                               | 0.4                                 | 0.5                                          | 0.62                                 | 0.72                                    | 0.47                                    |
| QUEBR<br>ADONA | 1966       | 0.39                               | 0.23                                 | 0.26                               | 0.32                               | 0.4                               | 0.52                               | 0.39                               | 0.46                                | 0.48                                         | 0.68                                 | 0.68                                    | 0.57                                    |
| QUEBR<br>ADONA | 1967       | 0.34                               | 0.4                                  | 0.37                               | 0.49                               | 0.62                              | 0.77                               | 0.6                                | 0.44                                | 0.47                                         | 0.48                                 | 0.57                                    | 0.34                                    |
| QUEBR<br>ADONA | 1968       | 0.27                               | 0.28                                 | 0.26                               | 0.47                               | 0.56                              | 0.64                               | 0.58                               | 0.47                                | 0.65                                         | 0.74                                 | 0.68                                    | 0.45                                    |
| QUEBR<br>ADONA | 1969       | 0.33                               | 0.25                                 | 0.2                                | 0.46                               | 0.46                              | 0.41                               | 0.19                               | 0.51                                | 0.54                                         | 0.59                                 | 0.63                                    | 0.43                                    |
| QUEBR<br>ADONA | 1970       | 0.35                               | 0.3                                  | 0.25                               | 0.46                               | 0.71                              | 0.54                               | 0.43                               | 0.47                                | 0.68                                         | 0.96                                 | 0.98                                    | 0.67                                    |
| QUEBR<br>ADONA | 1971       | 0.66                               | 0.65                                 | 0.79                               | 0.74                               | 1.08                              | 0.81                               | 0.84                               | 0.93                                | 0.85                                         | 0.93                                 | 0.85                                    | 0.52                                    |
| QUEBR<br>ADONA | 1972       | 0.47                               | 0.4                                  | 0.43                               | 0.57                               | 0.87                              | 0.64                               | 0.49                               | 0.5                                 | 0.44                                         | 0.57                                 | 0.58                                    | 0.39                                    |
| QUEBR<br>ADONA | 1973       | 0.27                               | 0.19                                 | 0.22                               | 0.33                               | 0.48                              | 0.5                                | 0.42                               | 0.46                                | 0.73                                         | 0.73                                 | 0.69                                    | 0.71                                    |
| QUEBR<br>ADONA | 1974       | 0.55                               | 0.53                                 | 0.48                               | 0.56                               | 0.6                               | 0.47                               | 0.52                               | 0.62                                | 0.87                                         | 0.95                                 | 0.85                                    | 0.45                                    |
| QUEBR<br>ADONA | 1975       | 0.31                               | 0.39                                 | 0.49                               | 0.35                               | 0.53                              | 0.57                               | 0.78                               | 0.73                                | 0.88                                         | 0.77                                 | 0.96                                    | 0.82                                    |
| QUEBR<br>ADONA | 1976       | 0.42                               | 0.37                                 | 0.47                               | 0.61                               | 0.74                              | 0.61                               | 0.38                               | 0.35                                | 0.35                                         | 0.74                                 | 0.53                                    | 0.31                                    |
| QUEBR<br>ADONA | 1977       | 0.21                               | 0.17                                 | 0.18                               | 0.29                               | 0.42                              | 0.49                               | 0.45                               | 0.52                                | 0.41                                         | 0.55                                 | 0.63                                    | 0.32                                    |
| QUEBR<br>ADONA | 1978       | 0.21                               | 0.19                                 | 0.32                               | 0.69                               | 0.48                              | 0.6                                | 0.45                               | 0.33                                | 0.44                                         | 0.57                                 | 0.63                                    | 0.48                                    |
| QUEBR<br>ADONA | 1979       | 0.24                               | 0.24                                 | 0.32                               | 0.44                               | 0.43                              | 0.49                               | 0.28                               | 0.3                                 | 0.48                                         | 0.66                                 | 0.82                                    | 0.42                                    |
| QUEBR<br>ADONA | 1980       | 0.3                                | 0.29                                 | 0.21                               | 0.34                               | 0.39                              | 0.5                                | 0.37                               | 0.35                                | 0.4                                          | 0.61                                 | 0.55                                    | 0.45                                    |
| QUEBR<br>ADONA | 1981       | 0.28                               | 0.23                                 | 0.34                               | 0.48                               | 0.86                              | 0.73                               | 0.66                               | 0.47                                | 0.64                                         | 0.77                                 | 0.68                                    | 0.52                                    |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| QUEBRADONA    | 1982       | 0.51                               | 0.57                                 | 0.51                               | 0.81                               | 0.92                              | 0.6                                | 0.46                               | 0.39                                | 0.42                                         | 0.64                                 | 0.53                                    | 0.48                                    |
| QUEBRADONA    | 1983       | 0.27                               | 0.24                                 | 0.34                               | 0.48                               | 0.59                              | 0.35                               | 0.52                               | 0.43                                | 0.53                                         | 0.53                                 | 0.56                                    | 0.59                                    |
| QUEBRADONA    | 1984       | 0.45                               | 0.44                                 | 0.28                               | 0.36                               | 0.63                              | 0.64                               | 0.59                               | 0.55                                | 0.72                                         | 0.93                                 | 0.82                                    | 0.52                                    |
| QUEBRADONA    | 1985       | 0.35                               | 0.3                                  | 0.37                               | 0.44                               | 0.59                              | 0.43                               | 0.36                               | 0.6                                 | 0.78                                         | 0.68                                 | 0.58                                    | 0.44                                    |
| QUEBRADONA    | 1986       | 0.35                               | 0.42                                 | 0.36                               | 0.61                               | 0.47                              | 0.57                               | 0.38                               | 0.33                                | 0.34                                         | 0.75                                 | 0.53                                    | 0.34                                    |
| QUEBRADONA    | 1987       | 0.26                               | 0.23                                 | 0.21                               | 0.26                               | 0.49                              | 0.24                               | 0.29                               | 0.35                                | 0.48                                         | 0.67                                 | 0.43                                    | 0.36                                    |
| QUEBRADONA    | 1988       | 0.22                               | 0.23                                 | 0.16                               | 0.34                               | 0.37                              | 0.41                               | 0.41                               | 0.7                                 | 0.73                                         | 0.78                                 | 0.89                                    | 0.7                                     |
| QUEBRADONA    | 1989       | 0.54                               | 0.45                                 | 0.44                               | 0.41                               | 0.59                              | 0.5                                | 0.38                               | 0.46                                | 0.62                                         | 0.65                                 | 0.61                                    | 0.39                                    |
| QUEBRADONA    | 1990       | 0.33                               | 0.36                                 | 0.35                               | 0.48                               | 0.52                              | 0.41                               | 0.36                               | 0.28                                | 0.39                                         | 0.79                                 | 0.5                                     | 0.35                                    |
| QUEBRADONA    | 1991       | 0.3                                | 0.21                                 | 0.35                               | 0.35                               | 0.5                               | 0.4                                | 0.38                               | 0.37                                | 0.3                                          | 0.53                                 | 0.55                                    | 0.44                                    |
| QUEBRADONA    | 1992       | 0.24                               | 0.24                                 | 0.28                               | 0.25                               | 0.37                              | 0.28                               | 0.27                               | 0.33                                | 0.4                                          | 0.32                                 | 0.38                                    | 0.45                                    |
| QUEBRADONA    | 1993       | 0.31                               | 0.19                                 | 0.24                               | 0.36                               | 0.57                              | 0.25                               | 0.33                               | 0.34                                | 0.58                                         | 0.6                                  | 0.73                                    | 0.61                                    |
| QUEBRADONA    | 1994       | 0.32                               | 0.36                                 | 0.49                               | 0.59                               | 0.51                              | 0.51                               | 0.39                               | 0.47                                | 0.42                                         | 0.57                                 | 0.64                                    | 0.34                                    |
| QUEBRADONA    | 1995       | 0.24                               | 0.2                                  | 0.24                               | 0.3                                | 0.43                              | 0.48                               | 0.53                               | 0.74                                | 0.58                                         | 0.7                                  | 0.57                                    | 0.61                                    |
| QUEBRADONA    | 1996       | 0.43                               | 0.42                                 | 0.68                               | 0.54                               | 0.84                              | 0.85                               | 0.97                               | 0.59                                | 0.52                                         | 0.66                                 | 0.57                                    | 0.39                                    |
| QUEBRADONA    | 1997       | 0.38                               | 0.36                                 | 0.31                               | 0.46                               | 0.34                              | 0.44                               | 0.24                               | 0.19                                | 0.22                                         | 0.21                                 | 0.36                                    | 0.21                                    |
| QUEBRADONA    | 1998       | 0.16                               | 0.15                                 | 0.18                               | 0.4                                | 0.49                              | 0.45                               | 0.54                               | 0.45                                | 0.7                                          | 0.57                                 | 0.57                                    | 0.61                                    |

| <b>Nombre</b>  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| QUEBR<br>ADONA | 1999       | 0.51                               | 0.56                                 | 0.7                                | 0.69                               | 0.67                              | 0.69                               | 0.52                               | 0.54                                | 0.81                                         | 0.75                                 | 0.64                                    | 0.68                                    |
| QUEBR<br>ADONA | 2000       | 0.41                               | 0.44                                 | 0.42                               | 0.48                               | 0.65                              | 0.67                               | 0.61                               | 0.6                                 | 0.8                                          | 0.58                                 | 0.55                                    | 0.4                                     |
| QUEBR<br>ADONA | 2001       | 0.31                               | 0.26                                 | 0.39                               | 0.31                               | 0.47                              | 0.53                               | 0.46                               | 0.28                                | 0.42                                         | 0.46                                 | 0.6                                     | 0.47                                    |
| QUEBR<br>ADONA | 2002       | 0.29                               | 0.23                                 | 0.28                               | 0.44                               | 0.46                              | 0.57                               | 0.29                               | 0.24                                | 0.22                                         | 0.32                                 | 0.34                                    | 0.39                                    |
| QUEBR<br>ADONA | 2003       | 0.19                               | 0.22                                 | 0.25                               | 0.41                               | 0.46                              | 0.56                               | 0.31                               | 0.32                                | 0.37                                         | 0.5                                  | 0.51                                    | 0.45                                    |
| QUEBR<br>ADONA | 2004       | 0.33                               | 0.25                                 | 0.24                               | 0.3                                | 0.45                              | 0.36                               | 0.53                               | 0.33                                | 0.51                                         | 0.49                                 | 0.63                                    | 0.41                                    |
| QUEBR<br>ADONA | 2005       | 0.3                                | 0.23                                 | 0.2                                | 0.33                               | 0.52                              | 0.44                               | 0.32                               | 0.27                                | 0.32                                         | 0.59                                 | 0.64                                    | 0.4                                     |
| QUEBR<br>ADONA | 2006       | 0.33                               | 0.26                                 | 0.38                               | 0.57                               | 0.85                              | 0.65                               | 0.35                               | 0.36                                | 0.48                                         | 0.49                                 | 0.78                                    | 0.51                                    |
| QUEBR<br>ADONA | 2007       | 0.32                               | 0.23                                 | 0.31                               | 0.62                               | 0.77                              | 0.73                               | 0.45                               | 0.58                                | 0.57                                         | 0.82                                 | 0.79                                    | 0.54                                    |
| QUEBR<br>ADONA | 2008       | 0.37                               | 0.38                                 | 0.45                               | 0.46                               | 0.64                              | 0.8                                | 0.85                               | 0.77                                | 0.7                                          | 0.82                                 | 0.9                                     | 0.49                                    |
| QUEBR<br>ADONA | 2009       | 0.47                               | 0.39                                 | 0.64                               | 0.46                               | 0.58                              | 0.53                               | 0.44                               | 0.38                                | 0.29                                         | 0.37                                 | 0.51                                    | 0.27                                    |
| QUEBR<br>ADONA | 2010       | 0.19                               | 0.17                                 | 0.16                               | 0.29                               | 0.44                              | 0.64                               | 0.79                               | 0.67                                | 1.01                                         | 0.84                                 | 1.16                                    | 0.9                                     |
| QUEBR<br>ADONA | 2011       | 0.4                                | 0.41                                 | 0.52                               | 1.06                               | 0.74                              | 0.71                               | 0.69                               | 0.68                                | 0.59                                         | 0.82                                 | 0.79                                    | 0.71                                    |
| QUEBR<br>ADONA | 2012       | 0.47                               | 0.33                                 | 0.4                                | 0.7                                | 0.69                              | 0.45                               | 0.41                               | 0.52                                | 0.31                                         | 0.51                                 | 0.41                                    | 0.33                                    |
| QUEBR<br>ADONA | 2013       | 0.21                               | 0.23                                 | 0.25                               | 0.32                               | 0.58                              | 0.43                               | 0.3                                | 0.44                                | 0.43                                         | 0.39                                 | 0.53                                    | 0.44                                    |
| QUEBR<br>ADONA | 2014       | 0.29                               | 0.32                                 | 0.37                               | 0.35                               | 0.44                              | 0.36                               | 0.27                               | 0.3                                 | 0.31                                         | 0.48                                 | 0.58                                    | 0.37                                    |
| QUEBR<br>ADONA | 2015       | 0.22                               | 0.27                                 | 0.23                               | 0.39                               | 0.33                              | 0.27                               | 0.33                               | 0.27                                | 0.22                                         | 0.24                                 | 0.32                                    | 0.18                                    |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| QUEBRADONA    | 2016       | 0.16                               | 0.14                                 | 0.15                               | 0.23                               | 0.3                               | 0.27                               | 0.32                               | 0.27                                | 0.35                                         | 0.36                                 | 0.59                                    | 0.49                                    |
| QUEBRADONA    | 2017       | 0.33                               | 0.21                                 | 0.4                                | 0.35                               | 0.65                              | 0.51                               | 0.34                               | 0.31                                | 0.41                                         | 0.46                                 | 0.5                                     | 0.36                                    |
| CANAS GORDAS  | 1937       |                                    |                                      |                                    |                                    |                                   |                                    |                                    |                                     |                                              | 0.97                                 | 1.06                                    | 1.05                                    |
| CANAS GORDAS  | 1938       | 0.59                               | 0.5                                  | 0.61                               | 1.29                               | 1.42                              | 1.72                               | 1.56                               | 1.93                                | 1.45                                         | 1.36                                 | 1.3                                     | 1.03                                    |
| CANAS GORDAS  | 1939       | 0.67                               | 0.49                                 | 0.54                               | 0.99                               | 0.99                              | 1.17                               | 1.14                               | 1.3                                 | 1.39                                         | 1.32                                 | 1.11                                    | 1.17                                    |
| CANAS GORDAS  | 1940       | 0.6                                | 0.61                                 | 0.56                               | 0.57                               | 0.74                              | 1.01                               | 0.57                               | 0.81                                | 1.11                                         | 0.86                                 | 0.84                                    | 0.76                                    |
| CANAS GORDAS  | 1941       | 0.46                               | 0.47                                 | 0.42                               | 0.77                               | 0.79                              | 0.73                               | 1.32                               | 1.88                                | 1.47                                         | 1.27                                 | 0.95                                    | 1.04                                    |
| CANAS GORDAS  | 1942       | 0.57                               | 0.66                                 | 0.72                               | 1.18                               | 1.5                               | 1.11                               | 1.27                               | 1.46                                | 1.24                                         | 1.34                                 | 1.21                                    | 0.9                                     |
| CANAS GORDAS  | 1943       | 0.69                               | 0.6                                  | 0.64                               | 1.23                               | 1.65                              | 1.3                                | 0.9                                | 0.96                                | 1.11                                         | 1.45                                 | 0.96                                    | 0.65                                    |
| CANAS GORDAS  | 1944       | 0.52                               | 0.5                                  | 0.53                               | 0.53                               | 1.36                              | 1.32                               | 0.83                               | 0.89                                | 1.3                                          | 1.41                                 | 1.28                                    | 0.82                                    |
| CANAS GORDAS  | 1945       | 0.63                               | 0.55                                 | 0.74                               | 0.9                                | 1.39                              | 1.05                               | 1.49                               | 2.16                                | 1.18                                         | 1.67                                 | 1.24                                    | 1.08                                    |
| CANAS GORDAS  | 1946       | 0.82                               | 0.64                                 | 0.84                               | 1.48                               | 1.34                              | 1.14                               | 1.05                               | 1.28                                | 1.48                                         | 1.19                                 | 1.04                                    | 0.86                                    |

| <b>Nombre</b>       | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| CANAS<br>GORDA<br>S | 1947       | 0.91                               | 0.7                                  | 0.61                               | 0.94                               | 1.17                              | 1.4                                | 1.27                               | 1.05                                | 1.48                                         | 1.37                                 | 1.01                                    | 0.81                                    |
| CANAS<br>GORDA<br>S | 1948       | 0.78                               | 0.54                                 | 0.56                               | 1.04                               | 1.14                              | 1.36                               | 0.9                                | 1.04                                | 1.1                                          | 1.09                                 | 1.01                                    | 0.77                                    |
| CANAS<br>GORDA<br>S | 1949       | 0.55                               | 0.45                                 | 0.57                               | 0.74                               | 1.18                              | 1.25                               | 1.47                               | 1.54                                | 1.26                                         | 1.23                                 | 1.08                                    | 0.92                                    |
| CANAS<br>GORDA<br>S | 1950       | 0.74                               | 0.73                                 | 0.7                                | 0.62                               | 1.16                              | 1.63                               | 1.49                               | 1.94                                | 1.28                                         | 1.44                                 | 1.34                                    | 1.2                                     |
| CANAS<br>GORDA<br>S | 1951       | 0.86                               | 1.09                                 | 0.8                                | 1.23                               | 1.25                              | 1.28                               | 1.44                               | 1.32                                | 1.67                                         | 1.13                                 | 1.02                                    | 0.9                                     |
| CANAS<br>GORDA<br>S | 1952       | 0.59                               | 0.51                                 | 0.43                               | 0.7                                | 1.07                              | 1.14                               | 1.45                               | 1.64                                | 1.51                                         | 1.42                                 | 1.22                                    | 0.95                                    |
| CANAS<br>GORDA<br>S | 1953       | 0.81                               | 0.64                                 | 0.63                               | 0.88                               | 1.43                              | 1.15                               | 1.04                               | 0.7                                 | 0.87                                         | 0.8                                  | 0.96                                    | 0.69                                    |
| CANAS<br>GORDA<br>S | 1954       | 0.69                               | 0.55                                 | 0.57                               | 1.23                               | 1.4                               | 1.58                               | 1.71                               | 1.31                                | 1.48                                         | 1.9                                  | 1.4                                     | 0.94                                    |
| CANAS<br>GORDA<br>S | 1955       | 0.82                               | 0.69                                 | 0.88                               | 1.13                               | 1.46                              | 1.34                               | 1.52                               | 1.43                                | 1.45                                         | 1.85                                 | 1.5                                     | 0.93                                    |
| CANAS<br>GORDA<br>S | 1956       | 0.78                               | 0.79                                 | 0.84                               | 1.11                               | 1.86                              | 2.11                               | 1.32                               | 1.75                                | 1.47                                         | 1.66                                 | 1.57                                    | 1.03                                    |
| CANAS<br>GORDA<br>S | 1957       | 0.69                               | 0.82                                 | 0.59                               | 0.76                               | 1.13                              | 1.17                               | 1.17                               | 1.28                                | 1.2                                          | 1.3                                  | 1.04                                    | 0.81                                    |
| CANAS<br>GORDA<br>S | 1958       | 0.54                               | 0.46                                 | 0.52                               | 0.49                               | 1.02                              | 0.67                               | 0.6                                | 1.09                                | 0.67                                         | 0.85                                 | 0.65                                    | 0.66                                    |

| <b>Nombre</b>       | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| CANAS<br>GORDA<br>S | 1959       | 0.46                               | 0.37                                 | 0.47                               | 0.63                               | 0.93                              | 1.2                                | 1.52                               | 1.19                                | 1.63                                         | 1.72                                 | 1.6                                     | 1.01                                    |
| CANAS<br>GORDA<br>S | 1960       | 0.74                               | 0.61                                 | 0.49                               | 0.86                               | 1.08                              | 1.32                               | 1.3                                | 1.3                                 | 1.55                                         | 1.45                                 | 1.26                                    | 0.91                                    |
| CANAS<br>GORDA<br>S | 1961       | 0.57                               | 0.48                                 | 0.49                               | 0.69                               | 0.82                              | 1.16                               | 1.11                               | 0.94                                | 1.31                                         | 1.09                                 | 1.43                                    | 0.84                                    |
| CANAS<br>GORDA<br>S | 1962       | 0.63                               | 0.55                                 | 0.59                               | 0.73                               | 1.48                              | 1.45                               | 1.37                               | 1.41                                | 1.59                                         | 1.21                                 | 1.16                                    | 0.69                                    |
| CANAS<br>GORDA<br>S | 1963       | 0.54                               | 0.58                                 | 0.71                               | 1.09                               | 1.21                              | 1.03                               | 1.9                                | 1.35                                | 1.22                                         | 1.25                                 | 1.24                                    | 0.6                                     |
| CANAS<br>GORDA<br>S | 1964       | 0.5                                | 0.48                                 | 0.52                               | 0.99                               | 0.85                              | 0.87                               | 1.53                               | 1.16                                | 1.46                                         | 1.31                                 | 1.08                                    | 0.74                                    |
| CANAS<br>GORDA<br>S | 1965       | 0.57                               | 0.48                                 | 0.53                               | 0.7                                | 1.15                              | 0.92                               | 0.85                               | 1.04                                | 1.44                                         | 1.24                                 | 1.1                                     | 0.72                                    |
| CANAS<br>GORDA<br>S | 1966       | 0.71                               | 0.51                                 | 0.56                               | 0.75                               | 0.64                              | 1.12                               | 0.83                               | 0.98                                | 1                                            | 1                                    | 0.9                                     | 0.85                                    |
| CANAS<br>GORDA<br>S | 1967       | 0.6                                | 0.55                                 | 0.51                               | 1.02                               | 1.55                              | 1.71                               | 1.55                               | 1.08                                | 1.23                                         | 0.96                                 | 0.7                                     | 0.55                                    |
| CANAS<br>GORDA<br>S | 1968       | 0.46                               | 0.4                                  | 0.58                               | 0.7                                | 0.95                              | 1.22                               | 1.28                               | 1.21                                | 1.44                                         | 1.24                                 | 1.11                                    | 0.71                                    |
| CANAS<br>GORDA<br>S | 1969       | 0.56                               | 0.53                                 | 0.49                               | 0.81                               | 0.88                              | 0.71                               | 0.54                               | 1.32                                | 1.43                                         | 1.66                                 | 1.24                                    | 0.99                                    |
| CANAS<br>GORDA<br>S | 1970       | 1.04                               | 0.84                                 | 0.93                               | 1.19                               | 1.51                              | 1.41                               | 1.3                                | 1.23                                | 1.75                                         | 2.03                                 | 1.63                                    | 1.26                                    |

| <b>Nombre</b>       | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| CANAS<br>GORDA<br>S | 1971       | 1.24                               | 1.19                                 | 1.36                               | 1.13                               | 1.55                              | 1.6                                | 1.86                               | 2.25                                | 1.71                                         | 1.73                                 | 1.22                                    | 0.81                                    |
| CANAS<br>GORDA<br>S | 1972       | 0.84                               | 0.64                                 | 0.65                               | 1.05                               | 1.74                              | 1.56                               | 1.19                               | 1.49                                | 1.49                                         | 1.16                                 | 0.99                                    | 0.81                                    |
| CANAS<br>GORDA<br>S | 1973       | 0.53                               | 0.45                                 | 0.53                               | 0.54                               | 1.09                              | 1.23                               | 1.07                               | 1.1                                 | 1.55                                         | 1.26                                 | 1.41                                    | 1.02                                    |
| CANAS<br>GORDA<br>S | 1974       | 0.67                               | 0.6                                  | 0.62                               | 0.79                               | 1.44                              | 1.09                               | 1.18                               | 1.44                                | 1.75                                         | 1.65                                 | 1.45                                    | 0.78                                    |
| CANAS<br>GORDA<br>S | 1975       | 0.59                               | 0.52                                 | 0.65                               | 0.72                               | 1.17                              | 1.74                               | 1.86                               | 1.87                                | 1.85                                         | 2.07                                 | 1.64                                    | 1.26                                    |
| CANAS<br>GORDA<br>S | 1976       | 0.82                               | 0.64                                 | 0.75                               | 1.22                               | 1.5                               | 1.24                               | 0.98                               | 1.26                                | 1.17                                         | 1.35                                 | 1.01                                    | 0.61                                    |
| CANAS<br>GORDA<br>S | 1977       | 0.49                               | 0.48                                 | 0.43                               | 0.49                               | 0.78                              | 1.24                               | 1.48                               | 1.46                                | 1.16                                         | 1.25                                 | 1.04                                    | 0.73                                    |
| CANAS<br>GORDA<br>S | 1978       | 0.62                               | 0.57                                 | 0.57                               | 1.09                               | 1.1                               | 1.51                               | 1.26                               | 0.94                                | 1.17                                         | 1.24                                 | 0.99                                    | 0.91                                    |
| CANAS<br>GORDA<br>S | 1979       | 0.58                               | 0.5                                  | 0.48                               | 0.77                               | 0.9                               | 1.18                               | 0.62                               | 0.83                                | 1                                            | 1.46                                 | 1.39                                    | 0.83                                    |
| CANAS<br>GORDA<br>S | 1980       | 0.61                               | 0.52                                 | 0.47                               | 0.47                               | 0.87                              | 1.16                               | 1.24                               | 1.21                                | 0.96                                         | 1.36                                 | 1.36                                    | 0.82                                    |
| CANAS<br>GORDA<br>S | 1981       | 0.56                               | 0.53                                 | 0.52                               | 0.76                               | 1.77                              | 1.64                               | 1.74                               | 1.05                                | 1.14                                         | 1.24                                 | 1.06                                    | 0.73                                    |
| CANAS<br>GORDA<br>S | 1982       | 0.6                                | 0.68                                 | 0.65                               | 1.06                               | 1.46                              | 1.03                               | 1.1                                | 1.13                                | 1.15                                         | 1.56                                 | 0.95                                    | 0.72                                    |

| <b>Nombre</b>       | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| CANAS<br>GORDA<br>S | 1983       | 0.44                               | 0.42                                 | 0.52                               | 0.83                               | 1.41                              | 1.09                               | 1.63                               | 1.29                                | 1.53                                         | 1.28                                 | 0.89                                    | 0.91                                    |
| CANAS<br>GORDA<br>S | 1984       | 0.66                               | 0.7                                  | 0.45                               | 0.56                               | 0.88                              | 1.41                               | 1.18                               | 1.07                                | 1.6                                          | 1.68                                 | 1.55                                    | 0.94                                    |
| CANAS<br>GORDA<br>S | 1985       | 0.65                               | 0.51                                 | 0.67                               | 0.61                               | 0.98                              | 0.75                               | 0.82                               | 1.46                                | 1.55                                         | 1.18                                 | 0.88                                    | 0.72                                    |
| CANAS<br>GORDA<br>S | 1986       | 0.59                               | 0.59                                 | 0.58                               | 0.88                               | 0.9                               | 1.15                               | 0.81                               | 0.89                                | 0.83                                         | 1.31                                 | 0.79                                    | 0.58                                    |
| CANAS<br>GORDA<br>S | 1987       | 0.42                               | 0.37                                 | 0.38                               | 0.62                               | 0.88                              | 0.72                               | 0.76                               | 1.05                                | 1.56                                         | 1.31                                 | 0.98                                    | 0.76                                    |
| CANAS<br>GORDA<br>S | 1988       | 0.51                               | 0.51                                 | 0.44                               | 0.55                               | 0.81                              | 0.74                               | 0.85                               | 1.32                                | 1.31                                         | 1.35                                 | 1.34                                    | 0.87                                    |
| CANAS<br>GORDA<br>S | 1989       | 0.81                               | 0.7                                  | 0.73                               | 0.75                               | 0.89                              | 1.42                               | 1.08                               | 1.44                                | 1.56                                         | 1.71                                 | 1.06                                    | 0.89                                    |
| CANAS<br>GORDA<br>S | 1990       | 0.62                               | 0.66                                 | 0.64                               | 0.79                               | 1.17                              | 1.24                               | 1.17                               | 0.8                                 | 1                                            | 1.56                                 | 1.19                                    | 0.8                                     |
| CANAS<br>GORDA<br>S | 1991       | 0.89                               | 0.77                                 | 0.88                               | 0.95                               | 1.41                              | 1.26                               | 1.51                               | 1.06                                | 0.87                                         | 1.13                                 | 1.02                                    | 0.86                                    |
| CANAS<br>GORDA<br>S | 1992       | 0.67                               | 0.61                                 | 0.6                                | 0.66                               | 0.93                              | 0.82                               | 0.96                               | 1.27                                | 1.48                                         | 1.16                                 | 0.99                                    | 0.73                                    |
| CANAS<br>GORDA<br>S | 1993       | 0.64                               | 0.54                                 | 0.58                               | 0.4                                | 0.51                              | 0.84                               | 1.25                               | 1.49                                | 1.88                                         | 1.93                                 | 1.35                                    | 1.33                                    |
| CANAS<br>GORDA<br>S | 1994       | 0.77                               | 0.77                                 | 0.7                                | 1.21                               | 1.58                              | 1.68                               | 1.12                               | 2.4                                 | 1.68                                         | 1.07                                 | 1.62                                    | 0.95                                    |

| <b>Nombre</b>       | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| CANAS<br>GORDA<br>S | 1995       | 0.6                                | 0.51                                 | 0.55                               | 0.8                                | 1.08                              | 1.27                               | 1.72                               | 1.57                                | 1.32                                         | 1.26                                 | 0.78                                    | 1.24                                    |
| CANAS<br>GORDA<br>S | 1996       | 0.78                               | 0.84                                 | 0.92                               | 1.14                               | 1.91                              | 1.36                               | 1.63                               | 1.5                                 | 1.57                                         | 1.48                                 | 1.34                                    | 0.93                                    |
| CANAS<br>GORDA<br>S | 1997       | 0.56                               | 0.8                                  | 0.63                               | 1.15                               | 0.78                              | 1.41                               | 0.49                               | 0.47                                | 0.86                                         | 0.57                                 | 0.52                                    | 0.35                                    |
| CANAS<br>GORDA<br>S | 1998       | 0.29                               | 0.31                                 | 0.33                               | 0.66                               | 0.77                              | 1.35                               | 1.75                               | 1.19                                | 1.76                                         | 1.16                                 | 1.02                                    | 1.12                                    |
| CANAS<br>GORDA<br>S | 1999       | 0.77                               | 0.93                                 | 0.95                               | 1.4                                | 1.57                              | 1.62                               | 1.55                               | 1.5                                 | 1.59                                         | 1.6                                  | 1.21                                    | 0.89                                    |
| CANAS<br>GORDA<br>S | 2000       | 0.62                               | 0.65                                 | 0.59                               | 0.68                               | 1.21                              | 1.47                               | 1.77                               | 1.65                                | 1.68                                         | 1.28                                 | 0.98                                    | 0.93                                    |
| CANAS<br>GORDA<br>S | 2001       | 0.67                               | 0.55                                 | 0.63                               | 0.82                               | 1.56                              | 1.62                               | 1.41                               | 1.04                                | 1.38                                         | 1.16                                 | 1.4                                     | 1.23                                    |
| CANAS<br>GORDA<br>S | 2002       | 0.68                               | 0.56                                 | 0.55                               | 0.86                               | 1.11                              | 1.3                                | 0.69                               | 0.68                                | 0.82                                         | 0.71                                 | 0.66                                    | 0.64                                    |
| CANAS<br>GORDA<br>S | 2003       | 0.41                               | 0.47                                 | 0.48                               | 0.92                               | 1.57                              | 1.43                               | 0.95                               | 1.08                                | 1.08                                         | 1.23                                 | 1.08                                    | 0.93                                    |
| CANAS<br>GORDA<br>S | 2004       | 0.63                               | 0.52                                 | 0.55                               | 0.71                               | 1.1                               | 0.99                               | 1.45                               | 0.96                                | 1.29                                         | 1.1                                  | 1.24                                    | 0.77                                    |
| CANAS<br>GORDA<br>S | 2005       | 0.59                               | 0.48                                 | 0.47                               | 0.9                                | 0.96                              | 1.1                                | 0.79                               | 0.74                                | 0.95                                         | 1.03                                 | 1.35                                    | 0.7                                     |
| CANAS<br>GORDA<br>S | 2006       | 0.54                               | 0.52                                 | 0.64                               | 0.98                               | 1.46                              | 1.38                               | 0.82                               | 0.97                                | 1.39                                         | 1.21                                 | 1.42                                    | 0.97                                    |

| <b>Nombre</b>           | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| CANAS<br>GORDA<br>S     | 2007       | 0.71                               | 0.49                                 | 0.51                               | 1.14                               | 1.82                              | 1.5                                | 1.3                                | 1.83                                | 1.46                                         | 1.77                                 | 1.3                                     | 0.85                                    |
| CANAS<br>GORDA<br>S     | 2008       | 0.64                               | 0.69                                 | 0.59                               | 0.58                               | 0.84                              | 1.53                               | 2.01                               | 1.32                                | 1.55                                         | 1.67                                 | 1.43                                    | 0.83                                    |
| CANAS<br>GORDA<br>S     | 2009       | 0.73                               | 0.82                                 | 0.85                               | 0.99                               | 1.08                              | 1.53                               | 1.12                               | 1.15                                | 0.88                                         | 0.9                                  | 1                                       | 0.6                                     |
| CANAS<br>GORDA<br>S     | 2010       | 0.45                               | 0.37                                 | 0.45                               | 0.64                               | 1.2                               | 1.53                               | 1.5                                | 1.56                                | 1.94                                         | 1.37                                 | 1.45                                    | 1.01                                    |
| CANAS<br>GORDA<br>S     | 2011       | 0.62                               | 0.63                                 | 0.91                               | 1.52                               | 1.19                              | 1.54                               | 1.3                                | 1.27                                | 1.2                                          | 1.45                                 | 1.35                                    | 1.05                                    |
| CANAS<br>GORDA<br>S     | 2012       | 0.75                               | 0.56                                 | 0.64                               | 1.48                               | 2.09                              | 1.19                               | 1.05                               | 1.25                                | 0.7                                          | 1.08                                 | 0.76                                    | 0.55                                    |
| CANAS<br>GORDA<br>S     | 2013       | 0.44                               | 0.45                                 | 0.47                               | 0.5                                | 1.1                               | 1.06                               | 0.69                               | 1.49                                | 1.29                                         | 1.01                                 | 0.94                                    | 0.71                                    |
| CANAS<br>GORDA<br>S     | 2014       | 0.53                               | 0.6                                  | 0.53                               | 0.83                               | 0.9                               | 1.29                               | 0.7                                | 0.79                                | 1.02                                         | 1.19                                 | 1.05                                    | 0.7                                     |
| CANAS<br>GORDA<br>S     | 2015       | 0.55                               | 0.64                                 | 0.48                               | 0.71                               | 1.39                              | 0.84                               | 1.03                               | 0.94                                | 0.73                                         | 0.8                                  | 0.67                                    | 0.52                                    |
| CANAS<br>GORDA<br>S     | 2016       | 0.41                               | 0.37                                 | 0.36                               | 0.47                               | 0.64                              | 0.73                               | 0.89                               | 0.92                                | 1.06                                         | 1.05                                 | 0.98                                    | 0.86                                    |
| CANAS<br>GORDA<br>S     | 2017       | 0.6                                | 0.49                                 | 0.62                               | 0.57                               | 1.05                              | 1.19                               | 0.82                               | 0.96                                | 1.14                                         | 0.75                                 | 0.74                                    | 0.54                                    |
| CAUCA-<br>PESCAD<br>ERO | 1982       | 1085.4                             | 875                                  | 858.1                              | 1374                               | 1808.4                            | 1226.9                             | 611                                | 453                                 | 355                                          | 1030                                 | 1035                                    | 793                                     |

| <b>Nombre</b>   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| CAUCA-PESCADERO | 1983       | 503                                | 319                                  | 429                                | 1067.3                             | 1106                              | 921.6                              | 540                                | 452                                 | 345                                          | 651                                  | 698                                     | 894                                     |
| CAUCA-PESCADERO | 1984       | 1045.5                             | 1004.4                               | 650.2                              | 856.7                              | 1327.8                            | 1502.6                             | 1084.3                             | 923.1                               | 1068.8                                       | 1399.7                               | 2007.7                                  | 1188.9                                  |
| CAUCA-PESCADERO | 1985       | 847.8                              | 589.4                                | 443.4                              | 522.4                              | 671.4                             | 659.2                              | 389.1                              | 561.91                              | 658.49                                       | 973.5                                | 1144.69                                 | 750.98                                  |
| CAUCA-PESCADERO | 1986       | 701.01                             | 787.04                               | 911.23                             | 1076.67                            | 1001.94                           | 879.91                             | 607.41                             | 421.56                              | 451.34                                       | 1102.51                              | 1034.51                                 | 588.05                                  |
| CAUCA-PESCADERO | 1987       | 385.66                             | 327.19                               | 320.23                             | 449.46                             | 842.79                            | 467.97                             | 425.61                             | 602.41                              | 462.8                                        | 955.78                               | 935.41                                  | 758.07                                  |
| CAUCA-PESCADERO | 1988       | 385.26                             | 372.18                               | 356.35                             | 654.09                             | 759.89                            | 845.97                             | 963.32                             | 978.68                              | 1354.1                                       | 1486.6                               | 1879.48                                 | 1746.41                                 |
| CAUCA-PESCADERO | 1989       | 1088.04                            | 837.63                               | 799.93                             | 652.36                             | 1030.43                           | 812.71                             | 546.42                             | 564.52                              | 829.36                                       | 1016.9                               | 944.13                                  | 817.08                                  |
| CAUCA-PESCADERO | 1990       | 562.11                             | 586.27                               | 532.98                             | 745.9                              | 868.54                            | 493.7                              | 492.1                              | 268.54                              | 313.09                                       | 981.98                               | 922.48                                  | 773.15                                  |
| CAUCA-PESCADERO | 1991       | 475.98                             | 336.31                               | 562.4                              | 637.21                             | 910.1                             | 686.99                             | 533.05                             | 427.35                              | 405.18                                       | 637.1                                | 1009.98                                 | 945.68                                  |
| CAUCA-PESCADERO | 1992       | 544.03                             | 479.74                               | 462.34                             | 477.93                             | 599.17                            | 566.7                              | 448.31                             | 428.29                              | 484.76                                       | 521.03                               | 617.48                                  | 830.27                                  |
| CAUCA-PESCADERO | 1993       | 627.39                             | 510.01                               | 564.28                             | 1043.24                            | 1466.16                           | 758.63                             | 594.89                             | 432.48                              | 710.39                                       | 838.79                               | 1412.97                                 | 1392.68                                 |
| CAUCA-PESCADERO | 1994       | 953.46                             | 851.82                               | 991.12                             | 1488.66                            | 1286.36                           | 1005.59                            | 622.89                             | 479.18                              | 469.35                                       | 1014.06                              | 1216.6                                  | 940.31                                  |

| <b>Nombre</b>   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| CAUCA-PESCADERO | 1995       | 488.17                             | 374.15                               | 437.61                             | 818.09                             | 1096.32                           | 967.95                             | 931.06                             | 1065.85                             | 675.95                                       | 948.2                                | 1122.93                                 | 1184.86                                 |
| CAUCA-PESCADERO | 1996       | 773.67                             | 940.46                               | 1527.79                            | 1308.91                            | 1506.75                           | 1505.6                             | 1264.32                            | 693                                 | 675.65                                       | 965.38                               | 896.67                                  | 745.38                                  |
| CAUCA-PESCADERO | 1997       | 878.54                             | 997.15                               | 730.51                             | 807.47                             | 717.53                            | 938.36                             | 411                                | 294.24                              | 368.4                                        | 519.04                               | 881.04                                  | 497.92                                  |
| CAUCA-PESCADERO | 1998       | 339.5                              | 401.93                               | 400.35                             | 908.48                             | 1255.24                           | 1025.95                            | 887.32                             | 749.17                              | 933.61                                       | 1054.6                               | 1467.35                                 | 1365.68                                 |
| CAUCA-PESCADERO | 1999       | 1165.99                            | 1540.76                              | 1804.31                            | 1607.95                            | 1655.63                           | 1348.83                            | 897.27                             | 746.46                              | 1225.23                                      | 1514.07                              | 2043.45                                 | 2174.51                                 |
| CAUCA-PESCADERO | 2000       | 1278.3                             | 1139.31                              | 1375.81                            | 1330.02                            | 1758.82                           | 1672.97                            | 938.1                              | 728.42                              | 1052.14                                      | 1069.54                              | 1405                                    | 773.92                                  |
| CAUCA-PESCADERO | 2001       | 625.45                             | 495.02                               | 733.21                             | 632.61                             | 799.3                             | 667.83                             | 527.79                             | 345.89                              | 504.85                                       | 525                                  | 853.72                                  | 1076.87                                 |
| CAUCA-PESCADERO | 2002       | 531.75                             | 351.89                               | 402.99                             | 1107.31                            | 973.5                             | 886.88                             | 465.92                             | 300.57                              | 321.01                                       | 458.92                               | 902.5                                   | 724.8                                   |
| CAUCA-PESCADERO | 2003       | 431.67                             | 414.13                               | 572.83                             | 1074.73                            | 944.28                            | 1166.42                            | 631.21                             | 557.79                              | 536.29                                       | 1031.1                               | 1372.04                                 | 1133.76                                 |
| CAUCA-PESCADERO | 2004       | 769.21                             | 427.61                               | 340.2                              | 618.6                              | 867.49                            | 609.55                             | 538.22                             | 345.5                               | 538.86                                       | 883.5                                | 1188.86                                 | 745.7                                   |
| CAUCA-PESCADERO | 2005       | 493.11                             | 493.92                               | 575.32                             | 595.36                             | 1153                              | 838.33                             | 531.49                             | 296.8                               | 374.74                                       | 1077.66                              | 1591.11                                 | 1088.15                                 |
| CAUCA-PESCADERO | 2006       | 908.49                             | 667.56                               | 833.44                             | 1080.45                            | 1425.29                           | 1324.23                            | 687.87                             | 552.84                              | 655.51                                       | 708.03                               | 1157.18                                 | 1148.27                                 |

| <b>Nombre</b>   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| CAUCA-PESCADERO | 2007       | 749.47                             | 593.24                               | 657.81                             | 1203.32                            | 1402.24                           | 1242.57                            | 809.5                              | 865.25                              | 850.77                                       | 1314.06                              | 1375.95                                 | 1406.47                                 |
| CAUCA-PESCADERO | 2008       | 1009.98                            | 1065.53                              | 1243.33                            | 1250.63                            | 1796.16                           | 1518.92                            | 1217.83                            | 1145.59                             | 1046.63                                      | 1087.44                              | 1774.61                                 | 1617.89                                 |
| CAUCA-PESCADERO | 2009       | 1150.1                             | 1089.24                              | 995.17                             | 1117.32                            | 1029.32                           | 916.22                             | 648.37                             | 607.42                              | 475.1                                        | 594.67                               | 718.05                                  | 549.17                                  |
| CAUCA-PESCADERO | 2010       | 365.96                             | 285.85                               | 296.01                             | 612.55                             | 1090.33                           | 1134.37                            | 1535.66                            | 1151.95                             | 1039.73                                      | 1134.82                              | 2827.21                                 | 2119.96                                 |
| CAUCA-PESCADERO | 2011       | 1275.75                            | 1047.2                               | 1435.58                            | 2365.6                             | 1822.92                           | 1160.05                            | 954.44                             | 927.87                              | 996.22                                       | 1835.66                              | 2072.54                                 | 1568.04                                 |
| CAUCA-PESCADERO | 2012       | 1437.68                            | 1161.04                              | 1058.17                            | 1613.22                            | 1639.14                           | 839.62                             | 665.86                             | 720.16                              | 376                                          | 594.87                               | 685.44                                  | 769.88                                  |
| CAUCA-PESCADERO | 2013       | 345.04                             | 639.56                               | 764.63                             | 749.57                             | 1538.83                           | 950.34                             | 476.28                             | 487.57                              | 539.42                                       | 704.2                                | 1083.42                                 | 1455.53                                 |
| CAUCA-PESCADERO | 2014       | 814.49                             | 670.02                               | 1100.56                            | 682.36                             | 1229.97                           | 767.99                             | 417.49                             | 280.6                               | 362.25                                       | 706.81                               | 1142.97                                 | 961.86                                  |
| CAUCA-PESCADERO | 2015       | 432.65                             | 423.61                               | 504.9                              | 873.33                             | 549.29                            | 446.49                             | 317.12                             | 246.32                              | 215.54                                       | 343.94                               | 610.29                                  | 308.98                                  |
| CAUCA-PESCADERO | 2016       | 185.09                             | 187.43                               | 273.29                             | 463.68                             | 807.18                            | 524.23                             | 404.53                             | 242.73                              | 459.2                                        | 715.06                               | 1155.59                                 | 1123.13                                 |
| CAUCA-PESCADERO | 2017       | 1006.81                            | 552.96                               | 1026.34                            | 1353.29                            | 2369.17                           | 1381.53                            | 825.66                             | 626.95                              | 790.21                                       | 976.8                                | 1639.18                                 | 1191.69                                 |
| Campoal egre    | 1979       |                                    |                                      |                                    |                                    |                                   |                                    |                                    |                                     | 10.66                                        | 11.25                                | 11.45                                   | 8.1                                     |

| <b>Nombre</b>   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Campoal<br>egre | 1980       | 7.12                               | 8.39                                 | 5.33                               | 6.41                               | 8.17                              | 9.22                               | 4.38                               | 3.96                                | 4.87                                         | 8.45                                 | 7.01                                    | 6.09                                    |
| Campoal<br>egre | 1981       | 3.53                               | 4.39                                 | 5.34                               | 8.49                               | 11.34                             | 10.16                              | 7.02                               | 3.75                                | 4.69                                         | 7.78                                 | 9.29                                    | 7.65                                    |
| Campoal<br>egre | 1982       | 10.29                              | 8.57                                 | 7.89                               | 14.08                              | 11.12                             | 5.81                               | 4.8                                | 4.47                                | 3.6                                          | 7.04                                 | 9.35                                    | 5.97                                    |
| Campoal<br>egre | 1983       | 3.81                               | 3.16                                 | 4.74                               | 10.77                              | 8.35                              | 7.17                               | 3.85                               | 3.16                                | 3.15                                         | 5.18                                 | 5.7                                     | 7.22                                    |
| Campoal<br>egre | 1984       | 7.13                               | 7.21                                 | 4.75                               | 6.64                               | 10.91                             | 7.8                                | 6.09                               | 8.33                                | 7.39                                         | 10.19                                | 10.76                                   | 7.7                                     |
| Campoal<br>egre | 1985       | 7.56                               | 5.21                                 | 6.16                               | 7.25                               | 7.48                              | 6.11                               | 4.16                               | 5.27                                | 5.31                                         | 8.08                                 | 8.05                                    | 6.14                                    |
| Campoal<br>egre | 1986       | 6.53                               | 7.92                                 | 7.41                               | 9.01                               | 7.79                              | 7.01                               | 4.91                               | 4.08                                | 4.65                                         | 9.64                                 | 7.67                                    | 5.41                                    |
| Campoal<br>egre | 1987       | 4.6                                | 4.1                                  | 4.43                               | 5.21                               | 7.98                              | 5.79                               | 5.42                               | 5.67                                | 5.53                                         | 9.15                                 | 7.97                                    | 3.82                                    |
| Campoal<br>egre | 1988       | 3.27                               | 4.17                                 | 3.82                               | 6.21                               | 4.97                              | 5.45                               | 6.01                               | 6.28                                | 8.37                                         | 8.56                                 | 10.85                                   | 8.86                                    |
| Campoal<br>egre | 1989       | 7.3                                | 6.16                                 | 7.54                               | 5.91                               | 7.6                               | 5.07                               | 4.3                                | 3.59                                | 4.56                                         | 5.93                                 | 7.61                                    | 6.41                                    |
| Campoal<br>egre | 1990       | 5.06                               | 5.66                                 | 6.24                               | 7.88                               | 7.57                              | 4.54                               | 4.33                               | 3.01                                | 2.62                                         | 7.44                                 | 6.52                                    | 5.48                                    |
| Campoal<br>egre | 1991       | 5.21                               | 3.46                                 | 6.33                               | 7.05                               | 6.17                              | 4.64                               | 3.88                               | 5.93                                | 3.78                                         | 5.87                                 | 7.25                                    | 8.37                                    |
| Campoal<br>egre | 1992       | 4.26                               | 3.94                                 | 3.15                               | 4.06                               | 4.25                              | 3.61                               | 3                                  | 3.35                                | 4.27                                         | 3.49                                 | 5.93                                    | 8.37                                    |
| Campoal<br>egre | 1993       | 5.08                               | 3.76                                 | 4.67                               | 5.89                               | 5.56                              | 4.13                               | 3.1                                | 3.24                                | 5.35                                         | 6.16                                 | 9.32                                    | 8.6                                     |
| Campoal<br>egre | 1994       | 4.56                               | 4.89                                 | 5.43                               | 6.41                               | 6.35                              | 4.56                               | 3.92                               | 2.78                                | 3.83                                         | 7.06                                 | 7.23                                    | 4.72                                    |
| Campoal<br>egre | 1995       | 2.68                               | 2.63                                 | 3.81                               | 8.25                               | 6.74                              | 7.04                               | 4.94                               | 5.54                                | 4.37                                         | 6.33                                 | 5.95                                    | 7.38                                    |
| Campoal<br>egre | 1996       | 6.1                                | 8.24                                 | 8.77                               | 6.08                               | 6.48                              | 6.49                               | 6.79                               | 4.76                                | 4.58                                         | 7.6                                  | 7.12                                    | 5.38                                    |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Campoal egre  | 1997       | 6.58                               | 5.69                                 | 5.61                               | 6.11                               | 5.33                              | 6.3                                | 3.42                               | 2.43                                | 3.32                                         | 4.35                                 | 7.39                                    | 3.68                                    |
| Campoal egre  | 1998       | 2.67                               | 3.16                                 | 3.65                               | 6.22                               | 6.27                              | 5.17                               | 5.55                               | 4.25                                | 7.85                                         | 9.94                                 | 10.69                                   | 9.8                                     |
| Campoal egre  | 1999       | 7.45                               | 9.44                                 | 7.94                               | 8.67                               | 7.47                              | 6.52                               | 5.59                               | 4.8                                 | 8.33                                         | 9.67                                 | 10.38                                   | 8.38                                    |
| Campoal egre  | 2000       | 7.01                               | 8.37                                 | 8.66                               | 6.56                               | 7.82                              | 10.49                              | 6.9                                | 5.42                                | 9.48                                         | 9.09                                 | 9.5                                     | 6.78                                    |
| Campoal egre  | 2001       | 5                                  | 4.74                                 | 4.15                               | 5.75                               | 7.27                              | 5.91                               | 4.32                               | 3.47                                | 4.44                                         | 6.34                                 | 7.54                                    | 11.86                                   |
| Campoal egre  | 2002       | 5.68                               | 3.95                                 | 7.06                               | 16.44                              | 12.01                             | 12.64                              | 7.46                               | 5.84                                | 6.58                                         | 9.21                                 | 10.85                                   | 10.12                                   |
| Campoal egre  | 2003       | 4.35                               | 6.16                                 | 9.62                               | 15.2                               | 13.64                             | 11.42                              | 6.45                               | 8.39                                | 8.12                                         | 21.66                                | 13.8                                    | 11.11                                   |
| Campoal egre  | 2004       | 17.46                              | 5.3                                  | 6.84                               | 18.83                              | 11.05                             | 6.15                               | 4.11                               | 2.53                                | 4.52                                         | 5.03                                 | 8.24                                    | 6.44                                    |
| Campoal egre  | 2005       | 4.99                               | 6.08                                 | 4.65                               | 4.94                               | 11.3                              | 8.21                               | 4.09                               | 3.62                                | 3.43                                         | 8.67                                 | 10.85                                   | 6.8                                     |
| Campoal egre  | 2006       | 5.06                               | 4.46                                 | 6.93                               | 10.19                              | 10.68                             | 8.61                               | 3.98                               | 3.23                                | 3.31                                         | 5.27                                 | 8.37                                    | 9.61                                    |
| Campoal egre  | 2007       | 5.3                                | 3.51                                 | 4.48                               | 6.61                               | 9.43                              | 6.17                               | 4.24                               | 6.05                                | 4.71                                         | 14.08                                | 8.42                                    | 11.38                                   |
| Campoal egre  | 2008       | 5                                  | 5.03                                 | 6.15                               | 6.27                               | 11.18                             | 7.07                               | 7.72                               | 7.5                                 | 7.79                                         | 7.07                                 | 15.81                                   | 9.65                                    |
| Campoal egre  | 2009       | 6.83                               | 6.56                                 | 7.66                               | 7.49                               | 7.17                              | 8.81                               | 3.83                               | 3.9                                 | 3.76                                         | 4.83                                 | 8.05                                    | 4.9                                     |
| Campoal egre  | 2010       | 3.96                               | 3.54                                 | 3.21                               | 6.38                               | 8.29                              | 8.63                               | 10.45                              | 8.02                                | 8.23                                         | 8.93                                 | 13.99                                   | 12.24                                   |
| Campoal egre  | 2011       | 6.07                               | 8.63                                 | 10.34                              | 12.49                              | 8.83                              | 7.94                               | 6.98                               | 5.26                                | 5.21                                         | 12.67                                | 15.6                                    | 13.73                                   |
| Campoal egre  | 2012       | 8.25                               | 5.83                                 | 6.7                                | 9.76                               | 8.48                              | 5.36                               | 4.12                               | 4.08                                | 2.87                                         | 7.59                                 | 7.84                                    | 6.55                                    |
| Campoal egre  | 2013       | 3.7                                | 6.05                                 | 6.55                               | 6.33                               | 8.39                              | 5.08                               | 3.56                               | 3.96                                | 4.26                                         | 5.68                                 | 13.97                                   | 11.65                                   |

| Nombre          | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|-----------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Campoal<br>egre | 2014 | 7.83                      | 6.11                        | 7.98                      | 7.19                      | 8.98                     | 5.7                       | 4.51                      | 3.59                       | 3.72                               | 5.05                        | 7.8                            | 6.97                           |
| Campoal<br>egre | 2015 | 3.25                      | 3.54                        | 4.98                      | 6.61                      | 4.72                     | 3.66                      | 3.08                      | 3.16                       | 3.1                                | 4.26                        | 7.53                           | 3.76                           |
| Campoal<br>egre | 2016 | 2.98                      | 2.97                        | 3.37                      | 5.87                      | 5.88                     | 3.58                      | 3.1                       | 2.77                       | 3.28                               | 7.32                        | 11.49                          | 9.79                           |
| Campoal<br>egre | 2017 | 9.05                      | 4.91                        | 9.23                      | 11.27                     | 16.84                    | 8.18                      | 4.49                      | 4.35                       | 5.49                               | 9.5                         | 13.83                          | 8.54                           |
| Chinchin<br>a   | 1960 |                           |                             |                           | 14.18                     | 17.16                    | 15.24                     | 14.97                     | 10.27                      | 9.65                               | 14.33                       | 20.91                          | 27.78                          |
| Chinchin<br>a   | 1961 | 12.95                     | 11.61                       | 12.1                      | 17.44                     | 14.07                    | 14.65                     | 14.19                     | 8.84                       | 9.88                               | 14.35                       | 30.37                          | 13.52                          |
| Chinchin<br>a   | 1962 | 10.83                     | 9.67                        | 11.24                     | 14.21                     | 20.02                    | 17                        | 11.26                     | 9.7                        | 10.2                               | 21.43                       | 20.28                          | 22.37                          |
| Chinchin<br>a   | 1963 | 16.14                     | 19.58                       | 18.58                     | 28.34                     | 27.61                    | 18.78                     | 13.74                     | 11.17                      | 8.87                               | 14.21                       | 27.12                          | 14.22                          |
| Chinchin<br>a   | 1964 | 9.81                      | 9.39                        | 8.51                      | 14.29                     | 13.38                    | 21.22                     | 15.53                     | 13.26                      | 12.58                              | 21.33                       | 19.23                          | 18.14                          |
| Chinchin<br>a   | 1965 | 12.92                     | 11.23                       | 9.61                      | 14.69                     | 20.57                    | 10.7                      | 8.35                      | 7.75                       | 9.22                               | 15.56                       | 25.29                          | 25.73                          |
| Chinchin<br>a   | 1966 | 13.74                     | 12.76                       | 11.5                      | 19.49                     | 24.66                    | 27.51                     | 17                        | 17.82                      | 14.84                              | 21.17                       | 31.35                          | 33.32                          |
| Chinchin<br>a   | 1967 | 14.56                     | 14.29                       | 13.38                     | 18.82                     | 24.53                    | 20.82                     | 12.64                     | 11.58                      | 10.92                              | 17.23                       | 28.92                          | 17.8                           |
| Chinchin<br>a   | 1968 | 12.69                     | 14.19                       | 11.49                     | 18.8                      | 18.69                    | 19.42                     | 13.92                     | 9.32                       | 15.31                              | 18.99                       | 22.95                          | 19.2                           |
| Chinchin<br>a   | 1969 | 26.71                     | 18.04                       | 15.73                     | 49.71                     | 38.03                    | 31.56                     | 19.77                     | 19.23                      | 21.93                              | 56.39                       | 44.07                          | 19.68                          |
| Chinchin<br>a   | 1970 | 18.07                     | 18.3                        | 15.29                     | 25.97                     | 34.5                     | 20.51                     | 15.54                     | 14.95                      | 16.1                               | 33.67                       | 23.44                          | 16.95                          |
| Chinchin<br>a   | 1971 | 22.92                     | 26.54                       | 40.42                     | 35.93                     | 34.15                    | 22.64                     | 22.25                     | 22.92                      | 29.31                              | 36.43                       | 29.01                          | 23.31                          |
| Chinchin<br>a   | 1972 | 17.4                      | 17.39                       | 17.3                      | 28.38                     | 33.34                    | 10.41                     | 11.3                      | 10.66                      | 10.27                              | 10.96                       | 34.58                          | 29.67                          |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Chinchin<br>a | 1973       | 25.41                              | 22                                   | 24.89                              | 25.94                              | 27.51                             | 30.18                              | 28.97                              | 30.9                                | 42.53                                        | 39.19                                | 38.53                                   | 42.05                                   |
| Chinchin<br>a | 1974       | 39.08                              | 43.26                                | 44.76                              | 19.35                              | 23.24                             | 18.01                              | 14.68                              | 14.07                               | 17.13                                        | 20.18                                | 28.42                                   | 15.63                                   |
| Chinchin<br>a | 1975       | 12.36                              | 20.76                                | 15.05                              | 12.76                              | 18.97                             | 17.04                              | 20.73                              | 16.42                               | 17.75                                        | 16.95                                | 33.48                                   | 42.75                                   |
| Chinchin<br>a | 1976       | 31.18                              | 83.97                                | 33.71                              | 89.03                              | 83.98                             | 65.27                              | 13.25                              | 11.8                                | 13.34                                        | 17.81                                | 27.4                                    | 12.48                                   |
| Chinchin<br>a | 1977       | 10.41                              | 9.13                                 | 11.59                              | 15.1                               | 16.47                             | 14.82                              | 11.75                              | 10.52                               | 11.42                                        | 18.66                                | 21.32                                   | 11.7                                    |
| Chinchin<br>a | 1978       | 10.84                              | 10.06                                | 12.64                              | 27.43                              | 19.46                             | 17.84                              | 11.25                              | 9.33                                | 10.25                                        | 14.15                                | 24.25                                   | 22.79                                   |
| Chinchin<br>a | 1979       | 7.68                               | 7.69                                 | 9.25                               | 16.25                              | 13.48                             | 18.51                              | 8.74                               | 9.34                                | 14.23                                        | 22.28                                | 27.25                                   | 21.35                                   |
| Chinchin<br>a | 1980       | 17.17                              | 18.38                                | 25.19                              | 12.96                              | 15.91                             | 17.65                              | 11.02                              | 9.3                                 | 10.44                                        | 15.97                                | 13.6                                    | 16.1                                    |
| Chinchin<br>a | 1981       | 8.49                               | 8.56                                 | 12.4                               | 19.83                              | 26.27                             | 24.85                              | 17.94                              | 15.27                               | 17.72                                        | 19.33                                | 18.78                                   | 15.7                                    |
| Chinchin<br>a | 1982       | 19.61                              | 18.02                                | 18.85                              | 28.43                              | 33.28                             | 21.46                              | 15.78                              | 10.73                               | 12.39                                        | 18.24                                | 22.45                                   | 18.96                                   |
| Chinchin<br>a | 1983       | 5.32                               | 3.38                                 | 10.79                              | 21.76                              | 17.36                             | 15.58                              | 9.71                               | 7.82                                | 8.15                                         | 12.18                                | 16.95                                   | 22.49                                   |
| Chinchin<br>a | 1984       | 21.8                               | 14.34                                | 11.37                              | 14.5                               | 26.55                             | 21.59                              | 13.98                              | 15.58                               | 19.93                                        | 26.1                                 | 37.04                                   | 18.58                                   |
| Chinchin<br>a | 1985       | 27.42                              | 19.35                                | 14.48                              | 18.17                              | 20.73                             | 14.97                              | 11.46                              | 13.24                               | 15.61                                        | 24.76                                | 20.9                                    | 25.54                                   |
| Chinchin<br>a | 1986       | 18.16                              | 14                                   | 11.34                              | 14.91                              | 18.93                             | 14.06                              | 11.47                              | 15.42                               | 13.99                                        | 23.71                                | 20.28                                   | 20.35                                   |
| Chinchin<br>a | 1987       | 8.9                                | 8.65                                 | 8.19                               | 11.64                              | 17.13                             | 13.16                              | 11.48                              | 13.91                               | 12.38                                        | 22.66                                | 19.67                                   | 15.16                                   |
| Chinchin<br>a | 1988       | 10.91                              | 10.5                                 | 10.93                              | 13.34                              | 13.19                             | 16.62                              | 17.8                               | 15.94                               | 22.09                                        | 23.85                                | 27.89                                   | 22.87                                   |
| Chinchin<br>a | 1989       | 17.57                              | 17.88                                | 21.97                              | 17.03                              | 21.69                             | 18.29                              | 15.2                               | 14.19                               | 15.7                                         | 19.23                                | 22.44                                   | 23.01                                   |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Chinchin<br>a | 1990       | 19.67                              | 22.44                                | 22.48                              | 27.09                              | 25.77                             | 20.86                              | 21.79                              | 16.58                               | 16.47                                        | 28.23                                | 21.32                                   | 20.3                                    |
| Chinchin<br>a | 1991       | 20.49                              | 19.3                                 | 27.82                              | 19.05                              | 8.66                              | 9.87                               | 8.7                                | 8.07                                | 8.92                                         | 13.13                                | 17.98                                   | 19.28                                   |
| Chinchin<br>a | 1992       | 11.15                              | 11.22                                | 13.95                              | 12.42                              | 13.61                             | 11.9                               | 11.39                              | 10.13                               | 7.24                                         | 12.95                                | 18.72                                   | 19.92                                   |
| Chinchin<br>a | 1993       | 20.01                              | 11.16                                | 10.03                              | 16.87                              | 29.67                             | 16.67                              | 12.65                              | 13.19                               | 21.82                                        | 15.25                                | 14.67                                   | 17.75                                   |
| Chinchin<br>a | 1994       | 12.02                              | 13.08                                | 15.15                              | 25.59                              | 29.23                             | 16.3                               | 12.91                              | 9.62                                | 11.77                                        | 32.79                                | 10.63                                   | 10.68                                   |
| Chinchin<br>a | 1995       | 8.01                               | 9.32                                 | 11.23                              | 11.33                              | 14.07                             | 15.53                              | 14.69                              | 16.67                               | 15.11                                        | 20.2                                 | 22.03                                   | 22.45                                   |
| Chinchin<br>a | 1996       | 15.05                              | 14.85                                | 25.33                              | 18.09                              | 17.75                             | 20.93                              | 17.69                              | 14.13                               | 13.7                                         | 20.93                                | 17.45                                   | 13.14                                   |
| Chinchin<br>a | 1997       | 18.22                              | 13.57                                | 14.79                              | 18.81                              | 7.63                              | 12.31                              | 8.41                               | 7.11                                | 8.82                                         | 12.56                                | 12.9                                    | 19.03                                   |
| Chinchin<br>a | 1998       | 7.9                                | 9.84                                 | 10.92                              | 19.49                              | 24.22                             | 15.91                              | 14.01                              | 12.76                               | 13.55                                        | 18.04                                | 26.51                                   | 20.7                                    |
| Chinchin<br>a | 1999       | 19.12                              | 25.98                                | 22.72                              | 21.65                              | 23.69                             | 19.07                              | 15.93                              | 13.33                               | 20.83                                        | 23.54                                | 34.08                                   | 23.42                                   |
| Chinchin<br>a | 2000       | 22.2                               | 15.72                                | 42.5                               | 22.49                              | 19.69                             | 24.13                              | 29.96                              | 31.69                               | 21.39                                        | 25.31                                | 27.7                                    | 33.44                                   |
| Chinchin<br>a | 2001       | 10.02                              | 8.58                                 | 9.99                               | 9.22                               | 6.84                              | 9.28                               | 7.92                               | 6.47                                | 7.88                                         | 8.76                                 | 10.39                                   | 10.61                                   |
| Chinchin<br>a | 2002       | 8.7                                | 7.53                                 | 7.99                               | 11.48                              | 10.95                             | 10.55                              | 9.76                               | 7.37                                | 7.93                                         | 8.97                                 | 9.9                                     | 9.08                                    |
| Chinchin<br>a | 2003       | 8.42                               | 8.38                                 | 14.35                              | 18.23                              | 9.81                              | 14.14                              | 8.58                               | 9.42                                | 9.01                                         | 15.6                                 | 15.24                                   | 10.13                                   |
| Chinchin<br>a | 2004       | 27.1                               | 20.67                                | 14.24                              | 14.4                               | 16.22                             | 12.92                              | 9.42                               | 7.2                                 | 9.51                                         | 11.95                                | 19.52                                   | 13.49                                   |
| Chinchin<br>a | 2005       | 12.79                              | 14.43                                | 11.76                              | 11.59                              | 18.16                             | 14.89                              | 9.39                               | 8.21                                | 8.35                                         | 19.15                                | 20.28                                   | 14.86                                   |
| Chinchin<br>a | 2006       | 13.51                              | 9.7                                  | 13.4                               | 14.46                              | 19.69                             | 18.07                              | 11.43                              | 10.34                               | 8.2                                          | 12.56                                | 16.79                                   | 14.74                                   |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Chinchin<br>a | 2007       | 12.01                              | 8.65                                 | 10.91                              | 15.18                              | 23.66                             | 17.11                              | 10.94                              | 11.54                               | 10.71                                        | 32.15                                | 29.3                                    | 30.56                                   |
| Chinchin<br>a | 2008       | 20.63                              | 16.57                                | 21.7                               | 22.07                              | 26.41                             | 16.55                              | 22.75                              | 15.17                               | 19.19                                        | 18.2                                 | 42.93                                   | 29.51                                   |
| Chinchin<br>a | 2009       | 18.87                              | 16.63                                | 17.64                              | 15.14                              | 14.49                             | 18.29                              | 10.92                              | 11.38                               | 9.19                                         | 10.9                                 | 16.81                                   | 14.48                                   |
| Chinchin<br>a | 2010       | 10.02                              | 7.93                                 | 7.64                               | 14.06                              | 18.99                             | 21.88                              | 44.35                              | 19.5                                | 28.45                                        | 23.04                                | 33.52                                   | 26.15                                   |
| Chinchin<br>a | 2011       | 14.88                              | 18.95                                | 19.58                              | 23.1                               | 16.58                             | 13.66                              | 12.68                              | 10.12                               | 9.39                                         | 21.79                                | 27.59                                   | 23.82                                   |
| Chinchin<br>a | 2012       | 18.63                              | 13.8                                 | 14.84                              | 25.99                              | 25.48                             | 16.24                              | 11.15                              | 10.55                               | 8.83                                         | 21.73                                | 22.14                                   | 17.64                                   |
| Chinchin<br>a | 2013       | 9.4                                | 14.37                                | 16.55                              | 13.82                              | 23.54                             | 15.79                              | 8.93                               | 9.76                                | 12.12                                        | 13.84                                | 30.78                                   | 27.49                                   |
| Chinchin<br>a | 2014       | 14.56                              | 13.14                                | 22.11                              | 13.27                              | 16.85                             | 12.21                              | 9.62                               | 9.61                                | 10.62                                        | 16.15                                | 15.73                                   | 11.96                                   |
| Chinchin<br>a | 2015       | 8.37                               | 8.91                                 | 10.95                              | 14.58                              | 9.81                              | 9.64                               | 9.15                               | 7.66                                | 6.58                                         | 8.26                                 | 13.17                                   | 8.24                                    |
| Chinchin<br>a | 2016       | 7.35                               | 6.98                                 | 10.65                              | 11.49                              | 10.62                             | 8.64                               | 8.6                                | 7.03                                | 10.58                                        | 12.93                                | 17.42                                   | 13.96                                   |
| Chinchin<br>a | 2017       | 13.32                              | 10.96                                | 14.1                               | 15.64                              | 30.18                             | 18.75                              | 12.57                              | 9.97                                | 10.23                                        | 14.08                                | 19.51                                   | 16.66                                   |
| Estrella      | 1972       |                                    |                                      | 1.77                               | 1.43                               | 2.55                              | 2.66                               | 1.68                               | 1.81                                | 2.17                                         | 2.42                                 | 3.59                                    | 2.39                                    |
| Estrella      | 1973       | 2.08                               | 1.31                                 | 1.24                               | 1.38                               | 1.61                              | 2.01                               | 2.16                               | 2.72                                | 3.33                                         | 2.65                                 | 3.03                                    | 2.75                                    |
| Estrella      | 1974       | 3.79                               | 3.99                                 | 1.52                               | 2.05                               | 2.3                               | 2.41                               | 1.79                               | 2.2                                 | 3                                            | 2.83                                 | 2.84                                    | 2.94                                    |
| Estrella      | 1975       | 2.59                               | 2.96                                 | 1.13                               | 1.78                               | 2.1                               | 2.18                               | 1.93                               | 2.49                                | 2.67                                         | 3.01                                 | 2.81                                    | 2.1                                     |
| Estrella      | 1976       | 1.4                                | 1.92                                 | 2.35                               | 3.94                               | 1.97                              | 2.81                               | 1.56                               | 1                                   | 0.95                                         | 1.39                                 | 1.83                                    | 1.26                                    |
| Estrella      | 1977       | 0.8                                | 0.66                                 | 0.7                                | 1.43                               | 2.48                              | 2.71                               | 1.78                               | 3.28                                | 1.66                                         | 2.44                                 | 2.89                                    | 1.51                                    |
| Estrella      | 1978       | 1.27                               | 1.07                                 | 1.08                               | 2.26                               | 2.55                              | 2.26                               | 1.99                               | 1.76                                | 1.28                                         | 1.46                                 | 2.49                                    | 2.28                                    |
| Estrella      | 1979       | 1.47                               | 0.94                                 | 1.06                               | 1.52                               | 1.96                              | 2.04                               | 1.59                               | 1.22                                | 1.46                                         | 1.54                                 | 1.82                                    | 1.68                                    |
| Estrella      | 1980       | 1.63                               | 1.79                                 | 1.33                               | 1.27                               | 1.52                              | 4.6                                | 1.45                               | 1.18                                | 1.4                                          | 2.53                                 | 2.63                                    | 1.99                                    |
| Estrella      | 1981       | 1.41                               | 1.3                                  | 1.94                               | 2.45                               | 2.9                               | 3.24                               | 2.82                               | 2.28                                | 1.99                                         | 2.58                                 | 5.23                                    | 2.13                                    |
| Estrella      | 1982       | 2.75                               | 2.56                                 | 2.59                               | 2.92                               | 3                                 | 2.53                               | 1.39                               | 1.05                                | 0.91                                         | 2.22                                 | 2.74                                    | 2.12                                    |

| Nombre   | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|----------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Estrella | 1983 | 1.52                      | 1.34                        | 1.51                      | 2.46                      | 2.69                     | 2.68                      | 1.79                      | 1.39                       | 1.62                               | 1.78                        | 1.99                           | 2.26                           |
| Estrella | 1984 | 2.64                      | 2.71                        | 2.2                       | 2.53                      | 2.67                     | 2.47                      | 2.31                      | 2.55                       | 2.31                               | 2.61                        | 2.61                           | 2.14                           |
| Estrella | 1985 | 2.17                      | 1.91                        | 1.82                      | 1.89                      | 2.09                     | 2.05                      | 1.9                       | 1.83                       | 1.97                               | 2.06                        | 2.31                           | 1.97                           |
| Estrella | 1986 | 1.42                      | 1.5                         | 1.7                       | 1.99                      | 2.23                     | 2.17                      | 1.99                      | 2.18                       | 1.72                               | 2.27                        | 2.32                           | 2.04                           |
| Estrella | 1987 | 1.58                      | 1.07                        | 1.02                      | 1.11                      | 1.93                     | 1.84                      | 1.65                      | 2.08                       | 1.68                               | 2.36                        | 2.38                           | 2.05                           |
| Estrella | 1988 | 1.51                      | 1.5                         | 1.17                      | 2.1                       | 2.17                     | 2.19                      | 2.28                      | 2.08                       | 2.32                               | 2.25                        | 2.15                           | 2.34                           |
| Estrella | 1989 | 2.24                      | 2.05                        | 2.36                      | 2.2                       | 2.37                     | 2.35                      | 2.15                      | 1.74                       | 2.07                               | 2.28                        | 2.25                           | 2.12                           |
| Estrella | 1990 | 1.92                      | 1.63                        | 1.8                       | 2.32                      | 1.79                     | 2.3                       | 2.27                      | 1.66                       | 1.43                               | 2.27                        | 2.43                           | 1.79                           |
| Estrella | 1991 | 1.8                       | 1.33                        | 1.78                      | 1.94                      | 2.22                     | 2.23                      | 2.64                      | 3.55                       | 3.46                               | 3.22                        | 3.34                           | 2.39                           |
| Estrella | 1992 | 1.74                      | 2.01                        | 1.68                      | 1.89                      | 1.75                     | 1.76                      | 1.37                      | 1.41                       | 1.96                               | 2.01                        | 2.07                           | 2.62                           |
| Estrella | 1993 | 2.1                       | 1.92                        | 2.15                      | 2.32                      | 5.05                     | 2.31                      | 2.21                      | 1.87                       | 2.31                               | 2.53                        | 2.66                           | 2.74                           |
| Estrella | 1994 | 2.41                      | 1.89                        | 2.43                      | 2.54                      | 2.38                     | 1.99                      | 1.94                      | 1.55                       | 1.58                               | 2.28                        | 2.56                           | 2.37                           |
| Estrella | 1995 | 1.45                      | 1.16                        | 1.05                      | 2.04                      | 2.43                     | 2.58                      | 2.44                      | 2.21                       | 1.96                               | 2.57                        | 2.38                           | 6.06                           |
| Estrella | 1996 | 2.57                      | 3.38                        | 6.29                      | 4.21                      | 3.5                      | 4.42                      | 5.89                      | 1.94                       | 1.71                               | 2.2                         | 2.97                           | 1.96                           |
| Estrella | 1997 | 2.1                       | 2.23                        | 2.16                      | 1.95                      | 1.84                     | 2.49                      | 1.22                      | 0.71                       | 0.67                               | 0.84                        | 1.81                           | 1.04                           |
| Estrella | 1997 | 2.1                       | 2.23                        | 2.16                      | 1.95                      | 1.84                     | 2.49                      | 1.22                      | 0.71                       | 0.67                               | 0.84                        | 1.81                           | 1.04                           |
| Estrella | 1998 | 0.77                      | 0.61                        | 0.67                      | 1.62                      | 1.62                     | 2.29                      | 3.23                      | 2.33                       | 2.33                               | 2.07                        | 2.72                           | 2.19                           |
| Estrella | 1999 | 1.5                       | 1.65                        | 1.66                      | 1.51                      | 1.6                      | 1.43                      | 1.4                       | 1.13                       | 1.42                               | 1.58                        | 1.53                           | 1.57                           |
| Estrella | 2000 | 1.19                      | 1.23                        | 1.49                      | 1.56                      | 1.5                      | 1.61                      | 1.5                       | 1.32                       | 1.43                               | 1.42                        | 0.96                           | 0.91                           |
| Estrella | 2001 | 1.5                       | 1.21                        | 1.93                      | 1.61                      | 2.65                     | 2.5                       | 1.36                      | 1.27                       | 1.32                               | 1.57                        | 2.03                           | 2.58                           |
| Estrella | 2002 | 1.49                      | 0.97                        | 1.13                      | 1.39                      | 1.78                     | 1.75                      | 1.51                      | 0.9                        | 1.13                               | 1.4                         | 2.18                           | 1.9                            |
| Estrella | 2003 | 1                         | 1.31                        | 1.35                      | 2.19                      | 2.4                      | 2.33                      | 1.46                      | 4.94                       | 0.99                               | 2.2                         | 2.4                            | 1.27                           |
| Estrella | 2004 | 1.2                       | 0.95                        | 0.86                      | 1.6                       | 2.34                     | 1.22                      | 1.19                      | 0.85                       | 1.52                               | 1.44                        | 2.27                           | 2.11                           |
| Estrella | 2005 | 1.94                      | 2.06                        | 2.18                      | 2.16                      | 4.18                     | 5.45                      | 1.58                      | 1.12                       | 1.12                               | 1.83                        | 3.14                           | 2.09                           |
| Estrella | 2006 | 1.88                      | 1.65                        | 1.95                      | 3.73                      | 5.57                     | 3.35                      | 1.38                      | 1.07                       | 1.28                               | 2.03                        | 2.58                           | 2.72                           |
| Estrella | 2007 | 1.38                      | 0.91                        | 1.24                      | 1.96                      | 2.05                     | 1.85                      | 1.46                      | 2.97                       | 2.74                               | 3.43                        | 2.59                           | 2.74                           |
| Estrella | 2008 | 1.88                      | 1.84                        | 2.06                      | 2.57                      | 3.89                     | 3.64                      | 3.76                      | 2.56                       | 2.53                               | 2.19                        | 4.33                           | 3.21                           |
| Estrella | 2009 | 2.43                      | 1.93                        | 3.09                      | 2.86                      | 2.74                     | 2.79                      | 1.58                      | 1.7                        | 1.32                               | 1.35                        | 1.76                           | 2.13                           |
| Estrella | 2010 | 1.24                      | 0.92                        | 0.92                      | 1.38                      | 2.65                     | 2.79                      | 4.26                      | 4.2                        | 2.92                               | 2.48                        | 5.65                           | 4.69                           |
| Estrella | 2011 | 1.91                      | 2.12                        | 2.57                      | 4.39                      | 2.19                     | 2.71                      | 2.17                      | 1.92                       | 1.27                               | 2.45                        | 4.85                           | 4.64                           |

| Nombre                                   | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|------------------------------------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Estrella                                 | 2012 | 2.3                       | 1.75                        | 1.84                      | 2.8                       | 3.16                     | 1.63                      | 0.81                      | 1.25                       | 0.91                               | 1.74                        | 2.54                           | 1.98                           |
| Estrella                                 | 2013 | 0.94                      | 2.05                        | 2.43                      | 1.87                      | 3                        | 2.34                      | 1.49                      | 1.74                       | 1.79                               | 1.96                        | 2.86                           | 3.38                           |
| Estrella                                 | 2014 | 2.08                      | 2.05                        | 2.52                      | 1.89                      | 2.29                     | 1.77                      | 1.45                      | 1.17                       | 1.22                               | 2.39                        | 3.68                           | 3.09                           |
| Estrella                                 | 2015 | 1.04                      | 0.95                        | 1.24                      | 1.99                      | 1.1                      | 1.07                      | 0.87                      | 0.79                       | 0.67                               | 0.91                        | 3.08                           | 1.35                           |
| Estrella                                 | 2016 | 0.77                      | 0.65                        | 1.09                      | 2.02                      | 2.54                     | 2.03                      | 2.15                      | 1.43                       | 3.06                               | 4.32                        | 4.03                           | 3.93                           |
| Estrella                                 | 2017 | 3.72                      | 1.55                        | 2.04                      | 2.55                      | 4.66                     | 1.63                      | 1.35                      | 1.32                       | 2.43                               | 3.54                        | 6.01                           | 1.59                           |
| Faguac<br>mpoalegr<br>e (San<br>Eugenio) | 1979 |                           |                             |                           |                           |                          |                           |                           |                            | 14.08                              | 14.85                       | 15.12                          | 10.69                          |
| Faguac<br>mpoalegr<br>e (San<br>Eugenio) | 1980 | 9.4                       | 11.08                       | 7.05                      | 8.46                      | 10.79                    | 12.18                     | 5.78                      | 5.23                       | 6.43                               | 11.16                       | 9.25                           | 8.05                           |
| Faguac<br>mpoalegr<br>e (San<br>Eugenio) | 1981 | 4.67                      | 5.8                         | 7.05                      | 11.21                     | 14.97                    | 13.42                     | 9.28                      | 4.95                       | 6.2                                | 10.27                       | 12.27                          | 10.1                           |
| Faguac<br>mpoalegr<br>e (San<br>Eugenio) | 1982 | 13.59                     | 11.32                       | 10.42                     | 18.59                     | 14.68                    | 7.67                      | 6.33                      | 5.9                        | 4.75                               | 9.29                        | 12.35                          | 7.89                           |
| Faguac<br>mpoalegr<br>e (San<br>Eugenio) | 1983 | 5.04                      | 4.18                        | 6.26                      | 14.23                     | 11.03                    | 9.47                      | 5.08                      | 4.17                       | 4.15                               | 6.84                        | 7.52                           | 9.54                           |
| Faguac<br>mpoalegr<br>e (San<br>Eugenio) | 1984 | 9.41                      | 9.52                        | 6.28                      | 8.77                      | 14.41                    | 10.29                     | 8.04                      | 11.01                      | 9.76                               | 13.46                       | 14.21                          | 10.17                          |
| Faguac<br>mpoalegr<br>e (San<br>Eugenio) | 1985 | 9.98                      | 6.88                        | 8.13                      | 9.57                      | 9.87                     | 8.07                      | 5.49                      | 6.96                       | 7.02                               | 10.67                       | 10.63                          | 8.11                           |

| <b>Nombre</b>                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Faguacampoalegre (San Eugenio) | 1986       | 8.62                               | 10.46                                | 9.79                               | 11.9                               | 10.29                             | 9.26                               | 6.48                               | 5.39                                | 6.15                                         | 12.73                                | 10.13                                   | 7.15                                    |
| Faguacampoalegre (San Eugenio) | 1987       | 6.07                               | 5.42                                 | 5.85                               | 6.88                               | 10.54                             | 7.64                               | 7.16                               | 7.49                                | 7.3                                          | 12.08                                | 10.53                                   | 5.04                                    |
| Faguacampoalegre (San Eugenio) | 1988       | 4.32                               | 5.5                                  | 5.05                               | 8.2                                | 6.57                              | 7.2                                | 7.94                               | 8.3                                 | 11.05                                        | 11.31                                | 14.33                                   | 11.7                                    |
| Faguacampoalegre (San Eugenio) | 1989       | 9.64                               | 8.14                                 | 9.96                               | 7.8                                | 10.03                             | 6.7                                | 5.68                               | 4.74                                | 6.03                                         | 7.83                                 | 10.05                                   | 8.47                                    |
| Faguacampoalegre (San Eugenio) | 1990       | 6.68                               | 7.47                                 | 8.24                               | 10.41                              | 10                                | 6                                  | 5.72                               | 3.98                                | 3.46                                         | 9.82                                 | 8.61                                    | 7.24                                    |
| Faguacampoalegre (San Eugenio) | 1991       | 6.89                               | 4.57                                 | 8.36                               | 9.31                               | 8.15                              | 6.12                               | 5.12                               | 7.83                                | 4.99                                         | 7.75                                 | 9.58                                    | 11.06                                   |
| Faguacampoalegre (San Eugenio) | 1992       | 5.63                               | 5.2                                  | 4.16                               | 5.36                               | 5.61                              | 4.76                               | 3.96                               | 4.42                                | 5.64                                         | 4.61                                 | 7.84                                    | 11.05                                   |
| Faguacampoalegre (San Eugenio) | 1993       | 6.71                               | 4.97                                 | 6.17                               | 7.77                               | 7.34                              | 5.45                               | 4.09                               | 4.28                                | 7.07                                         | 8.13                                 | 12.31                                   | 11.36                                   |
| Faguacampoalegre (San Eugenio) | 1994       | 6.03                               | 6.46                                 | 7.18                               | 8.46                               | 8.39                              | 6.02                               | 5.18                               | 3.67                                | 5.06                                         | 9.33                                 | 9.55                                    | 6.24                                    |

| <b>Nombre</b>                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Faguacampoalegre (San Eugenio) | 1995       | 3.54                               | 3.47                                 | 5.03                               | 10.89                              | 8.9                               | 9.3                                | 6.52                               | 7.32                                | 5.76                                         | 8.36                                 | 7.86                                    | 9.75                                    |
| Faguacampoalegre (San Eugenio) | 1996       | 8.06                               | 10.89                                | 11.58                              | 8.02                               | 8.56                              | 8.57                               | 8.96                               | 6.29                                | 6.04                                         | 10.04                                | 9.41                                    | 7.11                                    |
| Faguacampoalegre (San Eugenio) | 1997       | 8.69                               | 7.51                                 | 7.41                               | 8.07                               | 7.04                              | 8.32                               | 4.52                               | 3.21                                | 4.38                                         | 5.74                                 | 9.76                                    | 4.87                                    |
| Faguacampoalegre (San Eugenio) | 1998       | 3.52                               | 4.17                                 | 4.83                               | 8.21                               | 8.28                              | 6.82                               | 7.32                               | 5.62                                | 10.37                                        | 13.13                                | 14.12                                   | 12.95                                   |
| Faguacampoalegre (San Eugenio) | 1999       | 9.84                               | 12.47                                | 10.49                              | 11.45                              | 9.86                              | 8.61                               | 7.38                               | 6.34                                | 11                                           | 12.77                                | 13.7                                    | 11.06                                   |
| Faguacampoalegre (San Eugenio) | 2000       | 9.25                               | 11.05                                | 11.43                              | 8.66                               | 10.32                             | 13.85                              | 9.12                               | 7.16                                | 12.52                                        | 12                                   | 12.54                                   | 8.95                                    |
| Faguacampoalegre (San Eugenio) | 2001       | 6.61                               | 6.26                                 | 5.47                               | 7.6                                | 9.6                               | 7.8                                | 5.7                                | 4.58                                | 5.87                                         | 8.38                                 | 9.96                                    | 15.67                                   |
| Faguacampoalegre (San Eugenio) | 2002       | 7.5                                | 5.21                                 | 9.32                               | 21.72                              | 15.87                             | 16.69                              | 9.85                               | 7.71                                | 8.68                                         | 12.17                                | 14.32                                   | 13.36                                   |
| Faguacampoalegre (San Eugenio) | 2003       | 5.74                               | 8.13                                 | 12.71                              | 20.08                              | 18.02                             | 15.07                              | 8.51                               | 11.08                               | 10.72                                        | 28.6                                 | 18.22                                   | 14.67                                   |

| <b>Nombre</b>                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Faguacampoalegre (San Eugenio) | 2004       | 23.06                              | 7.01                                 | 9.04                               | 36.62                              | 18.08                             | 8.12                               | 5.42                               | 2.58                                | 5.96                                         | 5.09                                 | 10.88                                   | 8.08                                    |
| Faguacampoalegre (San Eugenio) | 2005       | 5.82                               | 5.75                                 | 6.53                               | 6.19                               | 14.93                             | 10.85                              | 5.41                               | 3.25                                | 3.58                                         | 11.46                                | 14.32                                   | 7.31                                    |
| Faguacampoalegre (San Eugenio) | 2006       | 6.68                               | 5.88                                 | 7.32                               | 13.46                              | 14.1                              | 11.37                              | 4.43                               | 4.27                                | 4.38                                         | 6.95                                 | 11.05                                   | 12.7                                    |
| Faguacampoalegre (San Eugenio) | 2007       | 6.99                               | 4.64                                 | 5.91                               | 8.73                               | 12.46                             | 8.14                               | 5.61                               | 7.98                                | 6.21                                         | 18.59                                | 11.13                                   | 15.04                                   |
| Faguacampoalegre (San Eugenio) | 2008       | 6.61                               | 6.64                                 | 8.12                               | 8.27                               | 14.77                             | 9.34                               | 10.2                               | 9.9                                 | 10.28                                        | 9.34                                 | 20.88                                   | 12.75                                   |
| Faguacampoalegre (San Eugenio) | 2009       | 9.01                               | 8.66                                 | 10.12                              | 9.9                                | 9.46                              | 11.64                              | 5.05                               | 5.16                                | 4.96                                         | 6.38                                 | 10.63                                   | 6.47                                    |
| Faguacampoalegre (San Eugenio) | 2010       | 5.23                               | 4.67                                 | 4.25                               | 8.43                               | 10.94                             | 11.39                              | 13.8                               | 10.59                               | 10.87                                        | 11.79                                | 18.48                                   | 16.16                                   |
| Faguacampoalegre (San Eugenio) | 2011       | 8.01                               | 11.4                                 | 13.65                              | 16.5                               | 11.67                             | 10.49                              | 9.22                               | 6.95                                | 6.88                                         | 16.74                                | 20.6                                    | 18.13                                   |
| Faguacampoalegre (San Eugenio) | 2012       | 10.9                               | 7.7                                  | 8.85                               | 12.89                              | 11.19                             | 7.07                               | 5.45                               | 5.39                                | 3.79                                         | 10.02                                | 10.36                                   | 8.65                                    |

| <b>Nombre</b>                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Faguacampoalegre (San Eugenio) | 2013       | 4.89                               | 7.99                                 | 8.66                               | 8.36                               | 11.08                             | 6.71                               | 4.7                                | 5.23                                | 5.63                                         | 7.51                                 | 18.46                                   | 15.39                                   |
| Faguacampoalegre (San Eugenio) | 2014       | 10.35                              | 8.07                                 | 10.54                              | 9.5                                | 11.86                             | 7.52                               | 5.95                               | 4.74                                | 4.91                                         | 6.67                                 | 10.3                                    | 9.21                                    |
| Faguacampoalegre (San Eugenio) | 2015       | 4.29                               | 4.67                                 | 6.58                               | 8.73                               | 6.24                              | 4.84                               | 4.07                               | 4.17                                | 4.09                                         | 5.62                                 | 9.94                                    | 4.97                                    |
| Faguacampoalegre (San Eugenio) | 2016       | 3.93                               | 3.93                                 | 4.45                               | 7.75                               | 7.77                              | 4.73                               | 4.09                               | 3.66                                | 4.33                                         | 9.67                                 | 15.18                                   | 12.93                                   |
| Faguacampoalegre (San Eugenio) | 2017       | 11.95                              | 6.49                                 | 12.18                              | 14.89                              | 22.25                             | 10.81                              | 5.92                               | 5.75                                | 7.25                                         | 12.54                                | 18.26                                   | 11.28                                   |
| San Francisco                  | 1980       | 2.45                               | 1.18                                 | 1.43                               | 2.31                               | 5.38                              | 7.13                               | 2.11                               | 2.63                                | 3.1                                          | 4.27                                 | 5.55                                    | 4.13                                    |
| San Francisco                  | 1981       | 2.58                               | 2.23                                 | 2.67                               | 3.83                               | 4.99                              | 5.07                               | 3.37                               | 1.86                                | 3.06                                         | 2.79                                 | 3.36                                    | 3.31                                    |
| San Francisco                  | 1982       | 3.8                                | 1.58                                 | 1.45                               | 3.96                               | 9.35                              | 3.98                               | 1.52                               | 1.37                                | 1.53                                         | 3.88                                 | 3.35                                    | 3.98                                    |
| San Francisco                  | 1983       | 2.53                               | 2.2                                  | 2.35                               | 9.3                                | 6.74                              | 2.69                               | 1.9                                | 1.7                                 | 1.99                                         | 2.7                                  | 2.63                                    | 4.5                                     |
| San Francisco                  | 1984       | 4.59                               | 4.3                                  | 2.11                               | 2.75                               | 4.71                              | 3.3                                | 2.78                               | 4.55                                | 3.88                                         | 1.77                                 | 1.62                                    | 2.81                                    |
| San Francisco                  | 1985       | 1.85                               | 1.7                                  | 2.21                               | 2.89                               | 4.69                              | 3.48                               | 1.7                                | 1.92                                | 1.83                                         | 2.14                                 | 2.23                                    | 3.56                                    |
| San Francisco                  | 1986       | 2.5                                | 2.34                                 | 2.76                               | 4.09                               | 3.13                              | 3.24                               | 2.31                               | 1.99                                | 1.95                                         | 2.73                                 | 3.23                                    | 2.08                                    |
| San Francisco                  | 1987       | 2.39                               | 1.82                                 | 1.74                               | 1.9                                | 4.04                              | 2.44                               | 3.08                               | 4.34                                | 2.54                                         | 4.13                                 | 3.69                                    | 1.87                                    |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| San Francisco | 1988       | 1.67                               | 1.79                                 | 1.27                               | 2.52                               | 4.7                               | 5.14                               | 5.83                               | 4.32                                | 4.14                                         | 4.66                                 | 6.04                                    | 5.04                                    |
| San Francisco | 1989       | 5.72                               | 4.72                                 | 4.76                               | 3.33                               | 3.73                              | 4.27                               | 2.53                               | 2.2                                 | 2.52                                         | 3.17                                 | 3.04                                    | 2.68                                    |
| San Francisco | 1990       | 2.5                                | 1.56                                 | 1.62                               | 4.47                               | 5.28                              | 4.28                               | 3.74                               | 2.17                                | 1.95                                         | 3.81                                 | 3.67                                    | 2.92                                    |
| San Francisco | 1991       | 2.93                               | 2.29                                 | 2.73                               | 2.72                               | 5.14                              | 4.96                               | 2.98                               | 2.26                                | 2.99                                         | 2.53                                 | 3.25                                    | 3.01                                    |
| San Francisco | 1992       | 2.99                               | 2.24                                 | 1.99                               | 1.68                               | 1.32                              | 2.16                               | 1.9                                | 1.64                                | 1.93                                         | 1.56                                 | 2.01                                    | 2.39                                    |
| San Francisco | 1993       | 1.41                               | 1.01                                 | 1.81                               | 2.11                               | 4.55                              | 3.57                               | 3.79                               | 2.58                                | 2.04                                         | 3.38                                 | 3.73                                    | 2.8                                     |
| San Francisco | 1994       | 3.3                                | 2.68                                 | 2.87                               | 4.56                               | 4.12                              | 2.85                               | 2.53                               | 1.97                                | 2.34                                         | 3.36                                 | 4.71                                    | 3.14                                    |
| San Francisco | 1995       | 1.79                               | 1.67                                 | 1.79                               | 4.33                               | 8.25                              | 5.99                               | 5.57                               | 5.4                                 | 7.52                                         | 5.33                                 | 5.81                                    | 6.8                                     |
| San Francisco | 1996       | 3.08                               | 4.5                                  | 5.46                               | 3.53                               | 3.84                              | 4.1                                | 5.6                                | 2.65                                | 2.64                                         | 3.97                                 | 3.12                                    | 3.2                                     |
| San Francisco | 1997       | 3.19                               | 3.99                                 | 3.05                               | 3.33                               | 2.97                              | 4.09                               | 2.13                               | 1.33                                | 1.34                                         | 1.35                                 | 3.71                                    | 2.25                                    |
| San Francisco | 1998       | 1                                  | 1.12                                 | 0.94                               | 2.38                               | 3.48                              | 3.62                               | 5                                  | 6.11                                | 7.3                                          | 5.1                                  | 5.13                                    | 3.81                                    |
| San Francisco | 1999       | 3.16                               | 4.69                                 | 4.47                               | 4.67                               | 3.93                              | 2.69                               | 2.25                               | 1.98                                | 4.39                                         | 5.26                                 | 5.36                                    | 6.26                                    |
| San Francisco | 2000       | 2.6                                | 3                                    | 4.82                               | 4.77                               | 4.72                              | 0.38                               | 4.16                               | 2.51                                | 2.12                                         | 1.83                                 | 3.08                                    | 1.65                                    |
| San Francisco | 2001       | 3.21                               | 2.53                                 | 4.5                                | 4.7                                | 5.53                              | 4.74                               | 3.22                               | 2.82                                | 3.12                                         | 3.3                                  | 3.73                                    | 5.56                                    |
| San Francisco | 2002       | 2.45                               | 1.45                                 | 1.75                               | 3.09                               | 3.72                              | 3.02                               | 2.81                               | 1.72                                | 1.45                                         | 2.68                                 | 7.96                                    | 7.95                                    |
| San Francisco | 2003       | 3.61                               | 3.59                                 | 2.84                               | 4.19                               | 5.95                              | 4.68                               | 2.48                               | 2.11                                | 1.58                                         | 4.27                                 | 4.21                                    | 1.75                                    |
| San Francisco | 2004       | 1.68                               | 0.97                                 | 1.08                               | 3.46                               | 4.67                              | 1.8                                | 1.84                               | 1.37                                | 2.34                                         | 2.82                                 | 3.48                                    | 2.93                                    |

| Nombre        | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|---------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| San Francisco | 2005 | 3.57                      | 2.56                        | 3.67                      | 3.42                      | 5.43                     | 6.53                      | 3.41                      | 2.45                       | 2.15                               | 3.86                        | 6.44                           | 3.92                           |
| San Francisco | 2006 | 3.11                      | 2.26                        | 4.83                      | 5.9                       | 7.41                     | 6.52                      | 3.98                      | 3.35                       | 3.33                               | 3.66                        | 4.64                           | 6.53                           |
| San Francisco | 2007 | 3.4                       | 1.99                        | 2.82                      | 5.15                      | 4.22                     | 3.49                      | 3.09                      | 4.53                       | 4.96                               | 5.01                        | 4.81                           | 5.21                           |
| San Francisco | 2008 | 4.25                      | 3.22                        | 3.43                      | 4.81                      | 6.76                     | 5.86                      | 6.14                      | 5.54                       | 5.07                               | 3.94                        | 6.88                           | 6.71                           |
| San Francisco | 2009 | 3.94                      | 3.91                        | 5.82                      | 5.75                      | 5.71                     | 5.99                      | 4.67                      | 4.81                       | 3.36                               | 3.49                        | 3.65                           | 3.98                           |
| San Francisco | 2010 | 1.97                      | 1.36                        | 1.49                      | 3                         | 5.1                      | 4.51                      | 8.59                      | 6.53                       | 4.95                               | 4.59                        | 10.02                          | 7.35                           |
| San Francisco | 2011 | 4.28                      | 4.17                        | 4.33                      | 7.17                      | 4.97                     | 4.99                      | 4.46                      | 3.14                       | 2.59                               | 4.99                        | 9.58                           | 8.83                           |
| San Francisco | 2012 | 4.86                      | 4.07                        | 3.67                      | 5.79                      | 6.19                     | 2.8                       | 1.71                      | 2.4                        | 1.69                               | 2.65                        | 3.98                           | 3.15                           |
| San Francisco | 2013 | 1.59                      | 3.15                        | 3.86                      | 3.69                      | 6.23                     | 4.16                      | 2.31                      | 2.75                       | 3.05                               | 3.29                        | 5.64                           | 4.82                           |
| San Francisco | 2014 | 2.91                      | 2.8                         | 4.86                      | 3.69                      | 4.98                     | 3.62                      | 2.7                       | 1.84                       | 1.88                               | 3.1                         | 4.44                           | 3.15                           |
| San Francisco | 2015 | 1.62                      | 1.62                        | 1.7                       | 2.67                      | 1.67                     | 1.82                      | 1.75                      | 1.54                       | 1.43                               | 2.2                         | 5.14                           | 2.15                           |
| San Francisco | 2016 | 1.49                      | 1.54                        | 2.23                      | 2.7                       | 4.43                     | 2.47                      | 3.4                       | 2.22                       | 2.58                               | 3.93                        | 6.94                           | 5.67                           |
| San Francisco | 2017 | 5.11                      | 2.02                        | 4.05                      | 5.57                      | 6.24                     | 3.11                      | 2.46                      | 2.61                       | 4.77                               | 5.38                        | 8.37                           | 4.95                           |

#### Formato 5. Embalses

| Nombre | Mínimi Técnico (Mm3) | Máximo Técnico (Mm3) |
|--------|----------------------|----------------------|
| PENOL  | 77.83                | 1121.85              |

| <b>Nombre</b> | <b>Mínimi Técnico (Mm3)</b> | <b>Máximo Técnico (Mm3)</b> |
|---------------|-----------------------------|-----------------------------|
| PLAYAS        | 19.93                       | 69.09                       |
| MIRAFLORES    | 5.64                        | 102.22                      |
| TRONERAS      | 8.64                        | 30.54                       |
| QUEBRADONA    | 1.33                        | 1.87                        |
| RIOGRANDE2    | 48.81                       | 185.87                      |
| PORCE2        | 40.2                        | 129.02                      |
| PORCE3        | 29.77                       | 160.64                      |
| PESCADERO     | 793.67                      | 1758.27                     |

#### Formato 6. Filtraciones

| <b>Nombre</b> | <b>m3/s</b> |
|---------------|-------------|
| PORCE3        | 2           |

#### Formato 7. Curvas de Operación Embalses

| <b>Nombre</b> | <b>Mes</b> | <b>Volumen Espera (Mm3)</b> | <b>Curva Guía Mínima (Mm3)</b> | <b>Curva Guía Máxima (Mm3)</b> |
|---------------|------------|-----------------------------|--------------------------------|--------------------------------|
| RIOGRANDE2    | 1          |                             | 48.81                          |                                |
| RIOGRANDE2    | 2          |                             | 48.81                          |                                |
| RIOGRANDE2    | 3          |                             | 48.81                          |                                |
| RIOGRANDE2    | 4          |                             | 48.81                          |                                |
| RIOGRANDE2    | 5          |                             | 48.81                          |                                |
| RIOGRANDE2    | 6          |                             | 48.81                          |                                |
| RIOGRANDE2    | 7          |                             | 48.81                          |                                |
| RIOGRANDE2    | 8          |                             | 48.81                          |                                |
| RIOGRANDE2    | 9          |                             | 48.81                          |                                |
| RIOGRANDE2    | 10         |                             | 48.81                          |                                |
| RIOGRANDE2    | 11         |                             | 48.81                          |                                |

| Nombre     | Mes | Volumen Espera (Mm3) | Curva Guía Mínima (Mm3) | Curva Guía Máxima (Mm3) |
|------------|-----|----------------------|-------------------------|-------------------------|
| RIOGRANDE2 | 12  |                      | 48.81                   |                         |

#### Formato 8. Capacidad Arcos de Descarga

| Nombre             | Flujo Mínimo (m3/s) | Flujo Máximo (m3/s) | Fecha Entrada | Fecha Salida |
|--------------------|---------------------|---------------------|---------------|--------------|
| Miraflores-Tenche  | 0                   | 23.6                | 01/07/1967    | 01/12/2100   |
| Tenche-Troneras    | 0                   | 23.3                | 01/07/1967    | 01/12/2100   |
| Troneras-Guadalupe | 0                   | 43                  | 01/07/1967    | 01/12/2100   |
| Nechi-Pajarito     | 0                   | 5.5                 | 01/12/1990    | 01/12/2100   |
| Pajarito-Dolores   | 0                   | 10                  | 01/12/1990    | 01/12/2100   |
| Dolores-Concepcion | 0                   | 16                  | 01/12/1990    | 01/12/2100   |
| Canal Quebradona   | 0                   | 31                  | 01/12/1950    | 01/12/2100   |
| Valvula Riogrande2 | 0                   | 52.77               | 01/04/1996    | 01/12/2100   |
| AD-1               | 0                   | 11.1                | 01/04/1960    | 01/12/2100   |
| AD-2               | 0                   | 10.6                | 01/09/1979    | 01/12/2100   |
| AD-3               | 0                   | 22                  | 01/08/1963    | 01/12/2100   |
| AD-4               | 0                   | 2                   | 01/08/1963    | 01/12/2100   |
| AD-5               | 0                   | 7                   | 01/01/1980    | 01/12/2100   |

#### Formato 9. Arco de Bombeo

Formato No Registrado

#### Formato 10. Capacidad Máxima Arco Generación

| Nombre   | Flujo Mínimo (m3/s) | Flujo Máximo (m3/s) |
|----------|---------------------|---------------------|
| GUATAPE  | 0                   | 84                  |
| PLAYAS   | 0                   | 130                 |
| TRONERAS | 0                   | 65                  |

| Nombre            | Flujo Mínimo (m3/s) | Flujo Máximo (m3/s) |
|-------------------|---------------------|---------------------|
| GUADALUPE3        | 0                   | 60                  |
| GUADALUPE4        | 0                   | 60                  |
| RIOGRANDE1        | 0                   | 31                  |
| LATASAJERA        | 0                   | 39.8                |
| PORCE2            | 0                   | 203.1               |
| PORCE3            | 0                   | 245.6               |
| Pescadero-Ituango | 0                   | 675                 |
| AG-Esmeralda      | 0                   | 22                  |
| AG-Insula         | 0                   | 21.7                |
| AG-San Francisco  | 0                   | 89.7                |

#### Formato 11. Descarga Máxima Embalse Bogotá

Formato No Registrado

#### Formato 12. Capacidad Túneles

Formato No Registrado

#### Formato 13. Demanda Acueducto y Riego

| Nombre | Año T (m3/s) | Año T+1 (m3/s) | Año T+2 (m3/s) | Año T+3 (m3/s) | Año T+4 (m3/s) | Año T+5 (m3/s) | Factor Recuperación |
|--------|--------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| NARE   |              |                |                |                | 5.47           |                | 85                  |
| GRANDE |              |                |                |                | 4.41           |                | 85                  |

#### Formato 14. Suministro Gas Natural

Formato No Registrado

#### Formato 15. Transporte Gas Natural

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

| Nombre       | Combustible | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|--------------|-------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| TERMO SIERRA | ACPM        | 8760            | 1727676                  | 1727676              | 1560482                | 1727676              | 1671944              | 1727676             | 1671944              | 1727676              | 1727676               | 1671944                   | 1727676                | 1671944                  |
| Termoderada  | ACPM        | 8760            | 225732                   | 225732               | 203887                 | 225732               | 218450               | 225732              | 218450               | 225732               | 225732                | 218450                    | 225732                 | 218450                   |

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

| Nombre       | Capacidad Efectiva Neta (MW) | Disponibilidad (%) |
|--------------|------------------------------|--------------------|
| NIQUIA       | 19                           | 35                 |
| AYURA        | 18                           | 35                 |
| MANANTIALES  | 3.15                         | 35                 |
| PAJARITO     | 13.2                         | 35                 |
| CAMPESTRE    | 0.87                         | 35                 |
| AMERICA      | 0.41                         | 35                 |
| BELLO        | 0.35                         | 35                 |
| NUTIBARA     | 0.75                         | 35                 |
| LA VUELTA    | 11.6                         | 35                 |
| LA HERRADURA | 19.8                         | 35                 |
| JEPİRACHI    | 18.42                        | 35                 |

| Nombre                 | Capacidad Efectiva Neta (MW) | Disponibilidad (%) |
|------------------------|------------------------------|--------------------|
| RIOGRANDE1             | 19                           | 35                 |
| AUX.RIOGRANDE          | 0.3                          | 35                 |
| SONSON                 | 18.5                         | 35                 |
| TAMESIS                | 1                            | 35                 |
| COLTEJER               | 9.4                          | 0                  |
| SAN JOSE DE LA MONTANA | 0.4                          | 40                 |
| CARACOLI               | 2.6                          | 35                 |
| GUACAICA               | 0.86                         | 35                 |
| INSULA                 | 19                           | 35                 |
| INTERMEDIA             | 0.96                         | 35                 |
| MUNICIPAL              | 1.4                          | 35                 |
| SANCANCIO              | 2                            | 35                 |
| PALMAS1                | 15                           | 35                 |
| CASCADA GENERADOR      | 3                            | 35                 |
| PORCE III MENOR        | 1.8                          | 35                 |
| AUTOG COCA-COLA FEMSA  | 2.44                         | 0                  |

#### **Formato 20. Plantas Eólicas**

Formato No Registrado

#### **Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

#### **Formato 22. Plantas Geotérmicas**

Formato No Registrado

#### **Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

#### **Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

## **Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

## **Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente EPM**



Medellín, 21 de enero del 2019

20190130006752

Doctor  
CHRISTIAN JARAMILLO HERRERA  
Director Ejecutivo  
Comisión de Regulación de Energía y Gas – CREG  
Bogotá

Referencia: Declaración de parámetro con mejora IHF para la asignación de obligación de energía firme.

Respetado Doctor Jaramillo,

Por medio de la presente comunicación, enviamos el cronograma de mejora IHF para la vigencia diciembre 2022 a noviembre 2023, de la empresa **EPM**, identificada con el NIT **890904996-1**, con el fin de que se efectúen las revisiones correspondientes.

Para especificar la senda de mejora de IHF, declaramos el IHF vigente al 21 de enero de 2019 y el nivel comprometido del IHF para la vigencia mencionada, según lo definido en el numeral 3.4.2 del Anexo 3 de la Resolución CREG 071 de 2006 y en el artículo 27 del Capítulo 8 del Reglamento de Garantía de la Resolución 061 de 2007.

En la tabla 1 declaramos el IHF vigente en nivel porcentual con cuatro decimales. Así mismo, en la tabla 2 consignamos el nivel de IHF en porcentaje con cuatro decimales, que nos comprometemos alcanzar en cada trimestre para la planta "TERMO SIERRA" antes de iniciar el periodo de vigencia de OEF.

Los parámetros declarados son:

| Tabla 1       |        |                         |
|---------------|--------|-------------------------|
| Nombre planta |        |                         |
| Año           | Fecha  | Nivel de IHF Actual (%) |
| 2019          | Ene-18 | 44.8374                 |

*estamos ahí.*

• Empresas Públicas de Medellín E. S. P.  
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Señor CHRISTIAN JARAMILLO HERRERA  
Comisión de Regulación de Energía y Gas – CREG  
2 / 2



Tabla 2

| Nombre planta |      |     |                               |
|---------------|------|-----|-------------------------------|
| Trimestre     | Año  | Mes | Nivel de IHF comprometido (%) |
| 0             | 2021 | Sep | 10.8000                       |
| 1             | 2021 | Dic | 10.0800                       |
| 2             | 2022 | Mar | 9.3600                        |
| 3             | 2022 | Jun | 8.6400                        |
| 4             | 2022 | Sep | 7.9200                        |

Cordialmente,

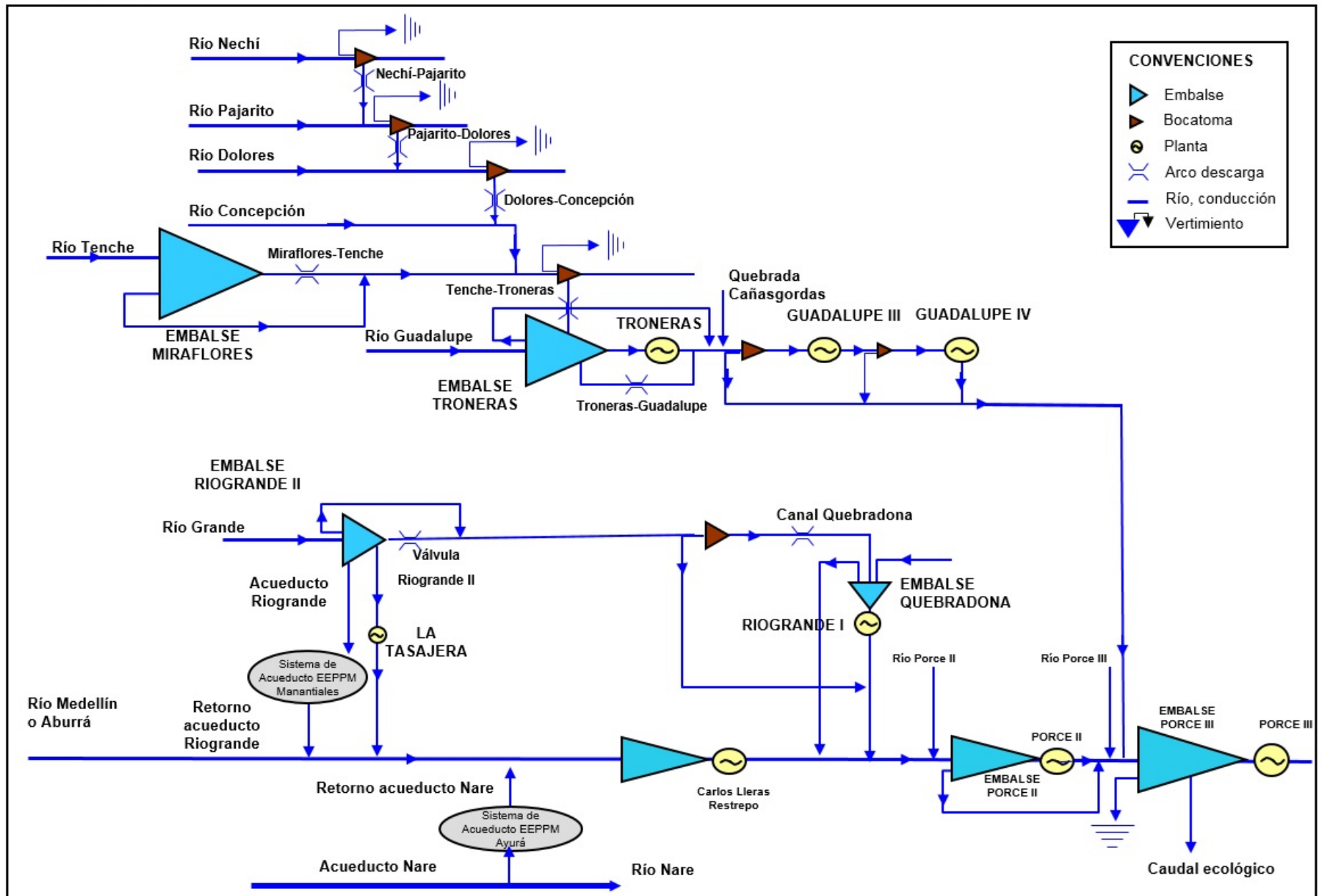
JORGE LONDOÑO DE LA CUESTA  
Representante Legal  
EMPRESAS PÚBLICAS DE MEDELLÍN E.S.P.

|                                                                                                      |                                                                           |                                                                                          |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|                                                                                                      |                                                                           |                                                                                          |
| Fuboro<br>Jorge Iván Hernández Martínez<br>Profesional Medio Energía Mayorista Generación<br>Energía | Revisó<br>Ever de Jesús Maya Sánchez<br>Jefe Unidad Gestión Solía Energía | Aprobó<br>Alberto Mejía Reyes<br>Gerente Mercado Energía Mayorista<br>Generación Energía |

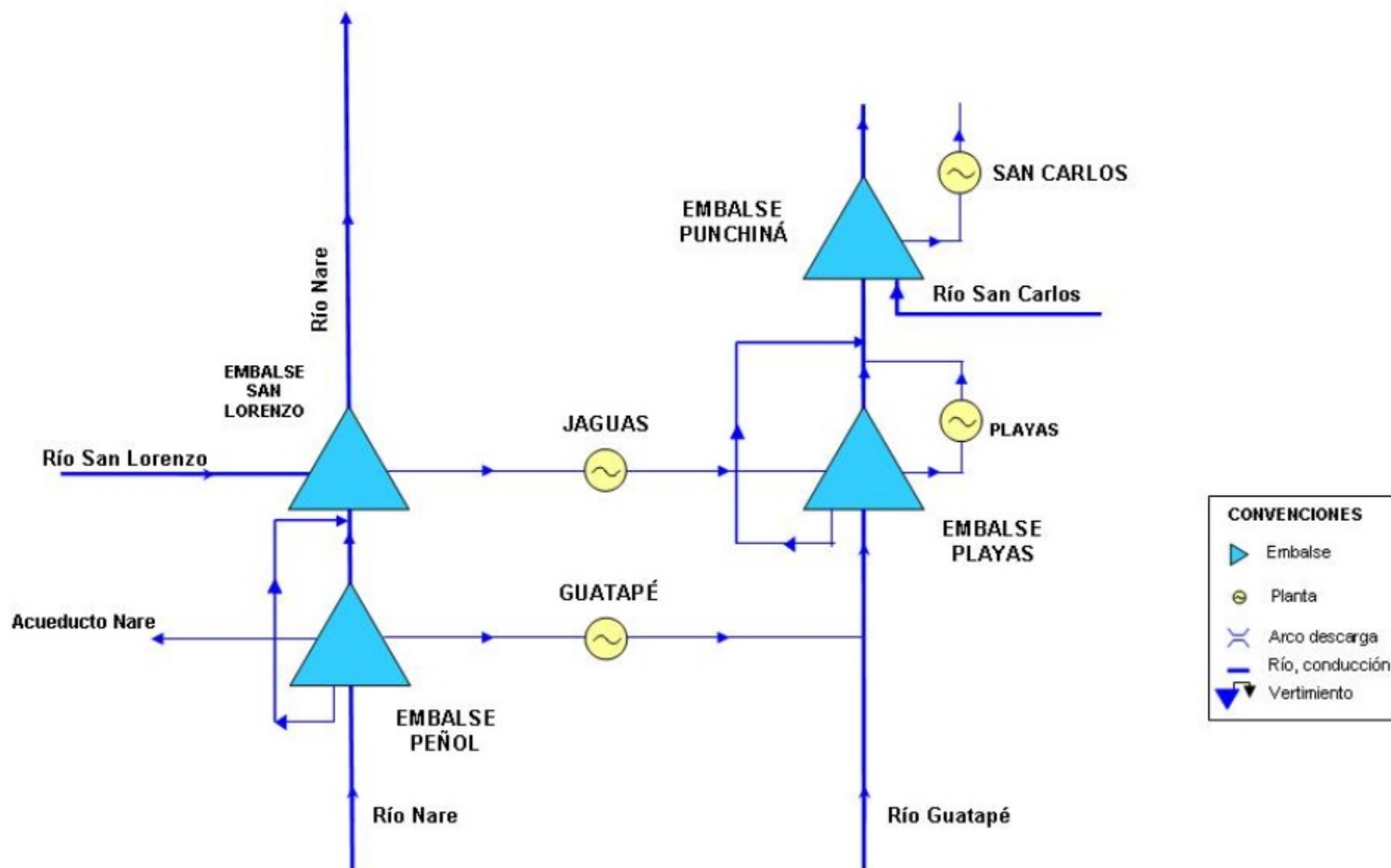
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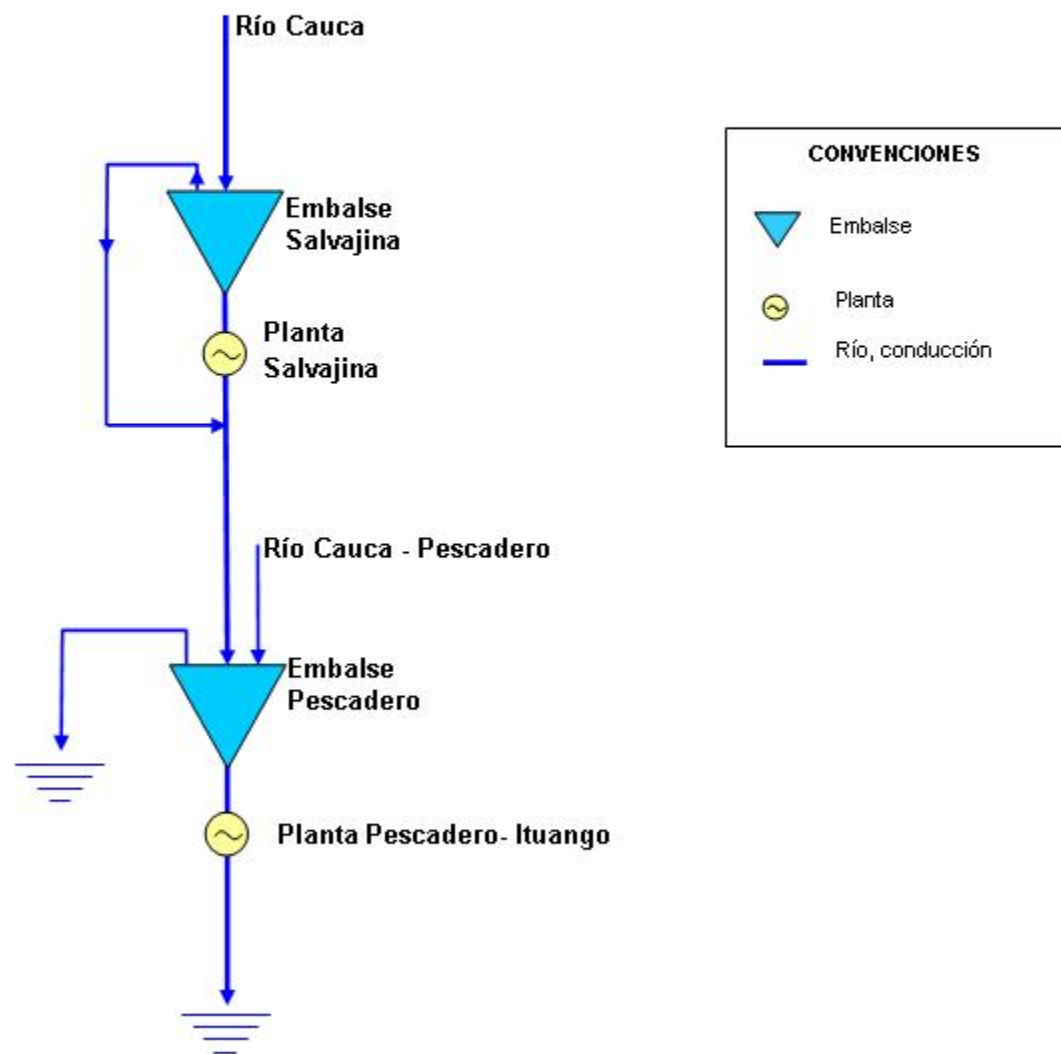
## CADENA HIDRÁULICA PORCE III



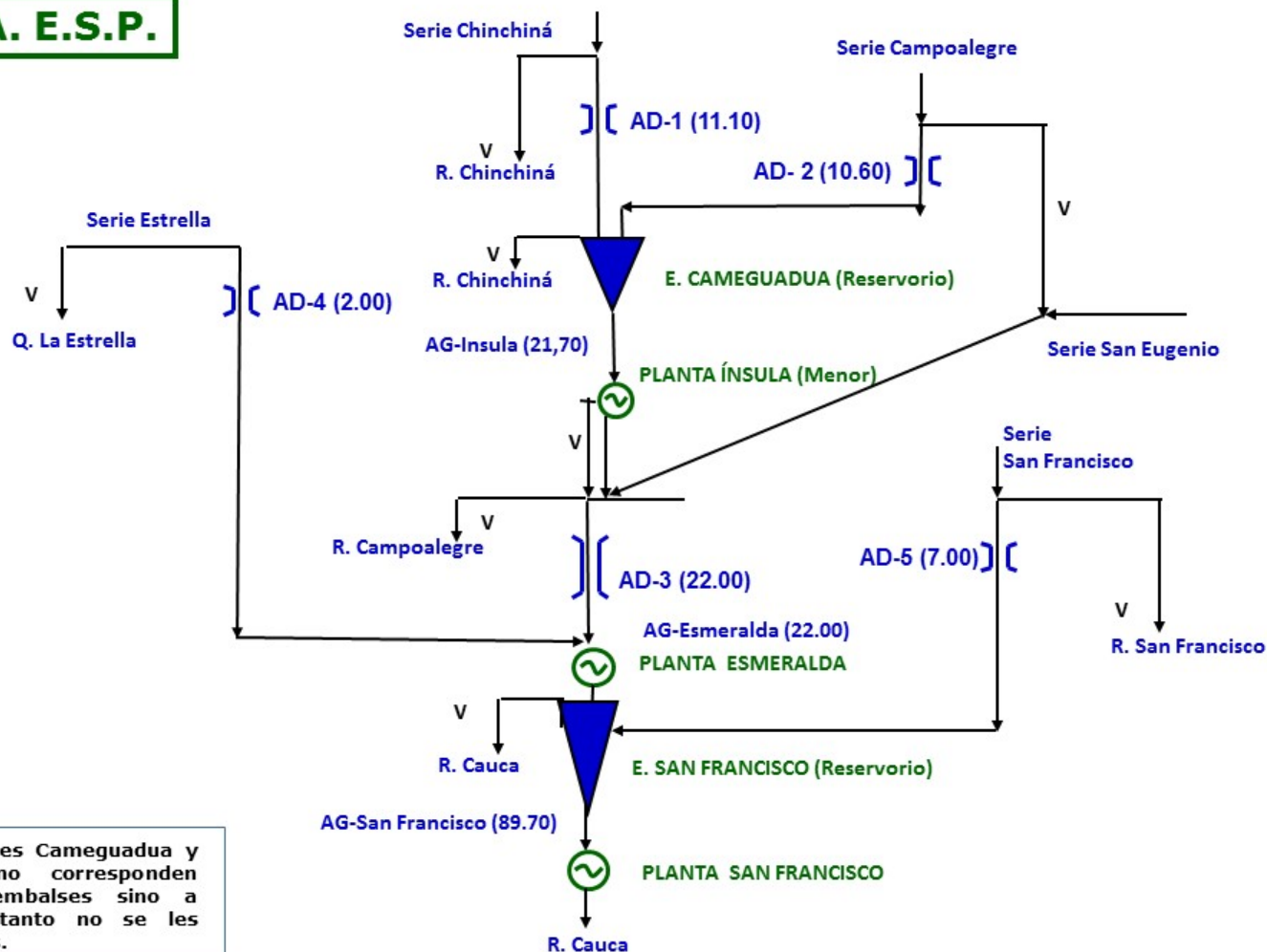
## CADENA GUATAPÉ - PLAYAS



## SISTEMA PESCADERO - ITUANGO



# CHEC S.A. E.S.P.



NOTA: Los embalses Cameguadua y San Francisco no corresponden propiamente a embalses sino a reservorios. Por tanto no se les declara parámetros.

Formato 1. Plantas o Unidades Hidráulicas

| Nombre    | Capacidad Efectiva Neta (MW) | Eficiencia (MW/m3/s) | IHF (%) |
|-----------|------------------------------|----------------------|---------|
| Paraiso   | 276                          | 7.4921               | 8.9978  |
| La Guaca  | 324                          | 8.9128               | 8.9405  |
| GUAVIO    | 1250                         | 9.8252               | 13.2899 |
| BETANIA   | 540                          | 0.5929               | 11.9164 |
| EL QUIMBO | 396                          | 1.0915               | 11.551  |

Formato 2. Topología Plantas Hidráulicas

| Nombre         | Elemento Clase | Elemento Nombre              | Aportes Rio        | Aportes Embalse   | Aportes Planta   | Aportes Otro                  | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro                | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|----------------|----------------|------------------------------|--------------------|-------------------|------------------|-------------------------------|--------------|------------------|------------------|------------------------------|------------------|----------------------|---------------------|------------------|
| Quimbo Betania | E              | Embalse El Quimbo            | Serie El Quimbo    |                   |                  |                               |              |                  |                  | Arco de Generacion El Quimbo |                  | Embalse Betania      |                     |                  |
| Quimbo Betania | AG             | Arco de Generacion El Quimbo |                    | Embalse El Quimbo |                  |                               |              |                  | Planta El Quimbo |                              |                  |                      |                     |                  |
| Quimbo Betania | P              | Planta El Quimbo             |                    |                   |                  | Arco de Generacion El Quimbo  |              | Embalse Betania  |                  |                              |                  |                      |                     |                  |
| Quimbo Betania | E              | Embalse Betania              | Serie Betania C.P. |                   | Planta El Quimbo | Vertimiento Embalse El Quimbo |              |                  |                  | Arco de Generacion Betania   |                  |                      |                     | Tierra           |

| Nombre           | Elemento Clase | Elemento Nombre                        | Aportes Rio  | Aportes Embalse | Aportes Planta | Aportes Otro               | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro                         | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro        |
|------------------|----------------|----------------------------------------|--------------|-----------------|----------------|----------------------------|--------------|------------------|------------------|---------------------------------------|------------------|----------------------|---------------------|-------------------------|
| Quimbo Betania   | AG             | Arco de Generacion Betania             |              | Embalse Betania |                |                            |              |                  | Planta Betania   |                                       |                  |                      |                     |                         |
| Quimbo Betania   | P              | Planta Betania                         |              |                 |                | Arco de Generacion Betania |              |                  |                  | Tierra                                |                  |                      |                     |                         |
| Guavio           | E              | Embalse Guavio                         | Serie Guavio |                 |                |                            |              |                  |                  | Arco de Generacion Guavio             |                  |                      |                     | Tierra                  |
| Guavio           | AG             | Arco de Generacion Guavio              |              | Embalse Guavio  |                |                            |              |                  | Planta Guavio    |                                       |                  |                      |                     |                         |
| Guavio           | P              | Planta Guavio                          |              |                 |                | Arco de Generacion Guavio  |              |                  |                  | Tierra                                |                  |                      |                     |                         |
| Paraiso La Guaca | E              | Embalse Sisga                          | Serie Sisga  |                 |                |                            |              |                  |                  | Descarga Sisga                        |                  |                      |                     | Rio Bogota hasta Achury |
| Paraiso La Guaca | AD             | Descarga Sisga                         |              | Embalse Sisga   |                |                            |              |                  |                  | Rio Bogota hasta Achury               |                  |                      |                     |                         |
| Paraiso La Guaca | OU             | Demand a Riego Rio Bogota hasta Achury |              |                 |                | Rio Bogota hasta Achury    |              |                  |                  | Retorno Riego Rio Bogota hasta Achury |                  |                      |                     |                         |

| Nombre           | Elemento Clase | Elemento Nombre                       | Aportes Rio                       | Aportes Embalse | Aportes Planta | Aportes Otro                                                                                                      | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro                                                                             | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro                 |
|------------------|----------------|---------------------------------------|-----------------------------------|-----------------|----------------|-------------------------------------------------------------------------------------------------------------------|--------------|------------------|------------------|-------------------------------------------------------------------------------------------|------------------|----------------------|---------------------|----------------------------------|
| Paraiso La Guaca | OU             | Retorno Riego Rio Bogota hasta Achury |                                   |                 |                | Demand a Riego Rio Bogota hasta Achury                                                                            |              |                  |                  | Rio Bogota hasta Achury                                                                   |                  |                      |                     |                                  |
| Paraiso La Guaca | E              | Embalse Tomine                        | Serie Tomine (Hidrologia Antigua) |                 |                | Bombeo Tomine                                                                                                     |              |                  |                  | Descarga Tomine                                                                           |                  |                      |                     | Rio Bogota hasta Achury          |
| Paraiso La Guaca | AD             | Descarga Tomine                       |                                   | Embalse Tomine  |                |                                                                                                                   |              |                  |                  | Rio Bogota hasta Achury                                                                   |                  |                      |                     |                                  |
| Paraiso La Guaca | B              | Bombeo Tomine                         |                                   |                 |                | Rio Bogota hasta Achury                                                                                           |              | Embalse Tomine   |                  |                                                                                           |                  |                      |                     |                                  |
| Paraiso La Guaca | N              | Rio Bogota hasta Achury               | Serie Baraya                      |                 |                | Vertimiento Sisga + Descarga Sisga + Vertimiento Tomine + Descarga Tomine + Retorno Riego Rio Bogota hasta Achury |              |                  |                  | Rio Bogota entre Achury y Espino + Bombeo Tomine + Demand a Riego Rio Bogota hasta Achury |                  |                      |                     | Rio Bogota entre Achury y Espino |

| Nombre           | Elemento Clase | Elemento Nombre                  | Aportes Rio                       | Aportes Embalse | Aportes Planta | Aportes Otro                                                                                       | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro                                   | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro                    |
|------------------|----------------|----------------------------------|-----------------------------------|-----------------|----------------|----------------------------------------------------------------------------------------------------|--------------|------------------|------------------|-------------------------------------------------|------------------|----------------------|---------------------|-------------------------------------|
| Paraiso La Guaca | E              | Embalse Neusa                    | Serie Neusa (Hidrologia Antigua)  |                 |                |                                                                                                    |              |                  |                  | Descarga Neusa                                  |                  |                      |                     | Rio Bogota entre Achury y Espino    |
| Paraiso La Guaca | AD             | Descarga Neusa                   |                                   | Embalse Neusa   |                |                                                                                                    |              |                  |                  | Rio Bogota entre Achury y Espino                |                  |                      |                     |                                     |
| Paraiso La Guaca | N              | Rio Bogota entre Achury y Espino | Serie Checua (Hidrologia Antigua) |                 |                | Rio Bogota hasta Achury + Vertimiento Neusa + Descarga Neusa + Vertimiento Rio Bogota hasta Achury |              |                  |                  | Compuerta Espino                                |                  |                      |                     |                                     |
| Paraiso La Guaca | AD             | Compuerta Espino                 |                                   |                 |                | Rio Bogota entre Achury y Espino                                                                   |              |                  |                  | Sistema Acueducto Bogota (SanRafaelSapoTibitoc) |                  |                      |                     | Rio Bogota entre Espino y Alicachin |
| Paraiso La Guaca | E              | Embalse Chuza                    | Serie Chuza (Hidrologia Antigua)  |                 |                |                                                                                                    |              |                  |                  | Descarga Chuza                                  |                  |                      |                     | Tierra                              |

| Nombre           | Elemento Clase | Elemento Nombre                                 | Aportes Rio                           | Aportes Embalse | Aportes Planta | Aportes Otro                           | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro                                                                                 | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro                    |
|------------------|----------------|-------------------------------------------------|---------------------------------------|-----------------|----------------|----------------------------------------|--------------|------------------|------------------|-----------------------------------------------------------------------------------------------|------------------|----------------------|---------------------|-------------------------------------|
| Paraiso La Guaca | AD             | Descarga Chuza                                  |                                       | Embalse Chuza   |                |                                        |              |                  |                  | Tunel Chuza                                                                                   |                  |                      |                     |                                     |
| Paraiso La Guaca | AD             | Desviacion Rio Blanco                           | Serie Rio Blanco (Hidrologia Antigua) |                 |                |                                        |              |                  |                  | Tunel Chuza                                                                                   |                  |                      |                     | Tierra                              |
| Paraiso La Guaca | AD             | Tunel Chuza                                     |                                       |                 |                | Descarga Chuza + Desviacion Rio Blanco |              |                  |                  | Sistema Acueducto Bogota (SanRafaelSapoTibitoc)                                               |                  |                      |                     |                                     |
| Paraiso La Guaca | AD             | Sistema Acueducto Bogota (SanRafaelSapoTibitoc) | Serie Teusaca (Hidrologia Antigua)    |                 |                | Tunel Chuza + Computa Espino           |              |                  |                  | Rio Bogota entre Espino y Alicachin + Demanda Sistema Acueducto Bogota (SanRafaelSapoTibitoc) |                  |                      |                     | Rio Bogota entre Espino y Alicachin |

| Nombre           | Elemento Clase | Elemento Nombre                                          | Aportes Rio | Aportes Embalse | Aportes Planta | Aportes Otro                                             | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro                                           | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|------------------|----------------|----------------------------------------------------------|-------------|-----------------|----------------|----------------------------------------------------------|--------------|------------------|------------------|---------------------------------------------------------|------------------|----------------------|---------------------|------------------|
| Paraiso La Guaca | OU             | Demand a Sistema Acueducto Bogota (SanRafaelSapoTibitoc) |             |                 |                | Sistema Acueducto Bogota (SanRafaelSapoTibitoc)          |              |                  |                  | Retorno Sistema Acueducto Bogota (SanRafaelSapoTibitoc) |                  |                      |                     |                  |
| Paraiso La Guaca | OU             | Retorno Sistema Acueducto Bogota (SanRafaelSapoTibitoc)  |             |                 |                | Demand a Sistema Acueducto Bogota (SanRafaelSapoTibitoc) |              |                  |                  | Rio Bogota entre Espino y Alicachin                     |                  |                      |                     |                  |

| Nombre           | Elemento Clase | Elemento Nombre                     | Aportes Rio                                       | Aportes Embalse | Aportes Planta | Aportes Otro                                                                                                                                                                                                              | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro                                               | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|------------------|----------------|-------------------------------------|---------------------------------------------------|-----------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|------------------|-------------------------------------------------------------|------------------|----------------------|---------------------|------------------|
| Paraiso La Guaca | N              | Rio Bogota entre Espino y Alicachin | Serie Filo de Agua Alicachin (Hidrologia Antigua) |                 |                | Vertimiento Compuerta Espino + Vertimiento Sistema Acueducto Bogota (SanRafaelSapoTibitoc) + Retorno Sistema Acueducto Bogota (SanRafaelSapoTibitoc) + Sistema Acueducto Bogota (SanRafaelSapoTibitoc) + Vertimiento Muna |              |                  |                  | Descarga Rio Bogota entre Espino y Alicachin a Embalse Muna |                  |                      |                     | Tierra           |

| Nombre           | Elemento Clase | Elemento Nombre                                             | Aportes Rio | Aportes Embalse | Aportes Planta                              | Aportes Otro                                                | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro               | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro                    |
|------------------|----------------|-------------------------------------------------------------|-------------|-----------------|---------------------------------------------|-------------------------------------------------------------|--------------|------------------|------------------|-----------------------------|------------------|----------------------|---------------------|-------------------------------------|
| Paraiso La Guaca | AD             | Descarga Rio Bogota entre Espino y Alicachin a Embalse Muna |             |                 |                                             | Rio Bogota entre Espino y Alicachin                         |              | Embalse Muna     |                  |                             |                  |                      |                     |                                     |
| Paraiso La Guaca | E              | Embalse Muna                                                |             |                 |                                             | Descarga Rio Bogota entre Espino y Alicachin a Embalse Muna |              |                  |                  | Arco de Generacion Paraiso  |                  |                      |                     | Rio Bogota entre Espino y Alicachin |
| Paraiso La Guaca | AG             | Arco de Generacion Paraiso                                  |             | Embalse Muna    |                                             |                                                             |              |                  | Planta Paraiso   |                             |                  |                      |                     |                                     |
| Paraiso La Guaca | P              | Planta Paraiso                                              |             |                 |                                             | Arco de Generacion Paraiso                                  |              |                  |                  | Arco de Generacion La Guaca |                  |                      |                     | Arco de Generacion La Guaca         |
| Paraiso La Guaca | AG             | Arco de Generacion La Guaca                                 |             |                 | Planta Paraiso + Vertimiento Planta Paraiso |                                                             |              |                  | Planta La Guaca  |                             |                  |                      |                     |                                     |
| Paraiso La Guaca | P              | Planta La Guaca                                             |             |                 |                                             | Arco de Generacion La Guaca                                 |              |                  |                  | Tierra                      |                  |                      |                     |                                     |

### Formato 3. Plantas o Unidades Térmicas

| Nombre      | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|-------------|------------------------------|-----------------------|---------|
| Cartagena 1 | 55.86                        | 12.0837               | 44.3118 |
| Cartagena 2 | 62.01                        | 11.5168               | 22.4959 |
| Cartagena 3 | 65.98                        | 13.8215               | 30.0754 |
| Termozipa 2 | 34.7                         | 11.7207               | 16.4067 |
| Termozipa 3 | 63.27                        | 12.8203               | 26.2111 |
| Termozipa 4 | 63.96                        | 13.6509               | 13.7849 |
| Termozipa 5 | 63.14                        | 12.3226               | 12.5643 |

### Formato 4. Caudal Medio Mensual

| Nombre      | Año  | Caudal Enero (m3/s) | Caudal Febrero (m3/s) | Caudal Marzo (m3/s) | Caudal Abril (m3/s) | Caudal Mayo(m3/s) | Caudal Junio (m3/s) | Caudal Julio (m3/s) | Caudal Agosto (m3/s) | Caudal Septiembre (m3/s) | Caudal Octubre (m3/s) | Caudal Noviembre (m3/s) | Caudal Diciembre (m3/s) |
|-------------|------|---------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| Serie Sisga | 1944 | 0.39                | 0.23                  | 0.31                | 1.55                | 5.43              | 4.73                | 4.73                | 2.02                 | 1.32                     | 1.16                  | 1.24                    | 0.39                    |
| Serie Sisga | 1945 | 0.31                | 0.16                  | 0.16                | 1.55                | 5.35              | 2.56                | 3.26                | 3.26                 | 0.85                     | 0.93                  | 0.85                    | 0.39                    |
| Serie Sisga | 1946 | 0.39                | 0.16                  | 0.23                | 0.39                | 1.63              | 2.79                | 5.82                | 7.22                 | 1.94                     | 0.62                  | 0.54                    | 0.47                    |
| Serie Sisga | 1947 | 0.16                | 0.23                  | 0.16                | 0.16                | 0.54              | 3.03                | 6.67                | 3.57                 | 1.78                     | 4.89                  | 1.09                    | 0.31                    |
| Serie Sisga | 1948 | 0.23                | 0.23                  | 0.16                | 0.78                | 1.55              | 2.64                | 3.57                | 1.94                 | 1.47                     | 0.7                   | 1.94                    | 0.54                    |
| Serie Sisga | 1949 | 0.23                | 0.23                  | 0.23                | 1.71                | 2.41              | 2.41                | 3.88                | 3.65                 | 1.63                     | 1.09                  | 2.02                    | 0.85                    |
| Serie Sisga | 1950 | 0.47                | 0.62                  | 1.47                | 0.47                | 3.18              | 3.18                | 3.65                | 2.48                 | 1.24                     | 1.78                  | 1.86                    | 1.4                     |

| Nombre         | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|----------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Serie<br>Sisga | 1951 | 0.62                      | 0.7                         | 1.78                      | 2.17                      | 4.11                     | 5.04                      | 9.62                      | 3.49                       | 1.71                               | 3.8                         | 3.34                           | 0.78                           |
| Serie<br>Sisga | 1952 | 0.47                      | 0.39                        | 0.31                      | 2.33                      | 2.48                     | 3.73                      | 6.6                       | 4.27                       | 1.78                               | 1.32                        | 3.41                           | 1.4                            |
| Serie<br>Sisga | 1953 | 0.47                      | 0.47                        | 0.62                      | 0.78                      | 2.41                     | 3.49                      | 2.56                      | 1.47                       | 1.32                               | 2.48                        | 2.33                           | 0.93                           |
| Serie<br>Sisga | 1954 | 0.47                      | 0.39                        | 0.31                      | 1.09                      | 2.33                     | 3.96                      | 4.89                      | 3.65                       | 1.32                               | 4.04                        | 2.56                           | 1.09                           |
| Serie<br>Sisga | 1955 | 0.79                      | 0.52                        | 1.26                      | 1.5                       | 2.37                     | 1.69                      | 2.93                      | 2.01                       | 1.94                               | 2.26                        | 2.38                           | 1.73                           |
| Serie<br>Sisga | 1956 | 1.47                      | 0.94                        | 1.78                      | 0.97                      | 1.28                     | 4                         | 3.6                       | 4.88                       | 2.88                               | 5.39                        | 2.01                           | 1.29                           |
| Serie<br>Sisga | 1957 | 0.42                      | 0.27                        | 0.49                      | 0.57                      | 5.11                     | 4.99                      | 6.12                      | 4.7                        | 2.15                               | 2.45                        | 2.17                           | 1.23                           |
| Serie<br>Sisga | 1958 | 0.44                      | 0.23                        | 0.33                      | 0.55                      | 1.33                     | 2.13                      | 5.25                      | 3.57                       | 1.8                                | 0.78                        | 1.06                           | 0.45                           |
| Serie<br>Sisga | 1959 | 0.24                      | 0.27                        | 0.31                      | 0.47                      | 1.57                     | 2.64                      | 5.04                      | 3.36                       | 3.11                               | 2.68                        | 2.28                           | 0.74                           |
| Serie<br>Sisga | 1960 | 0.43                      | 0.34                        | 0.27                      | 0.49                      | 1.02                     | 1.75                      | 3.41                      | 6.01                       | 3.52                               | 1.3                         | 0.96                           | 1.23                           |
| Serie<br>Sisga | 1961 | 0.29                      | 0.2                         | 0.26                      | 0.51                      | 0.34                     | 3.55                      | 3.44                      | 3.54                       | 0.99                               | 1.61                        | 2.76                           | 0.52                           |
| Serie<br>Sisga | 1962 | 0.25                      | 0.21                        | 0.31                      | 0.25                      | 1.56                     | 2.9                       | 5.04                      | 3.27                       | 1.52                               | 1.36                        | 1.51                           | 0.7                            |
| Serie<br>Sisga | 1963 | 0.33                      | 0.26                        | 0.23                      | 0.64                      | 5.41                     | 3.88                      | 4.74                      | 4.87                       | 1.99                               | 0.62                        | 1.8                            | 0.61                           |
| Serie<br>Sisga | 1964 | 0.23                      | 0.19                        | 0.2                       | 0.33                      | 1.22                     | 3.18                      | 3.52                      | 1.98                       | 1.99                               | 1.09                        | 1.55                           | 0.74                           |
| Serie<br>Sisga | 1965 | 0.34                      | 0.22                        | 0.26                      | 1.44                      | 4.17                     | 3.87                      | 7.94                      | 5.63                       | 1.61                               | 2.62                        | 3.08                           | 1.08                           |
| Serie<br>Sisga | 1966 | 0.46                      | 0.24                        | 0.71                      | 0.61                      | 0.4                      | 0.84                      | 2.17                      | 2.28                       | 1.11                               | 0.81                        | 1.32                           | 2.45                           |
| Serie<br>Sisga | 1967 | 0.47                      | 0.21                        | 0.32                      | 1.51                      | 3.3                      | 6.39                      | 5.52                      | 9.04                       | 2.55                               | 1.07                        | 1.75                           | 1.04                           |

| Nombre         | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|----------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Serie<br>Sisga | 1968 | 0.24                      | 0.24                        | 0.18                      | 2.1                       | 0.98                     | 4.34                      | 9.02                      | 5.92                       | 1.58                               | 1.72                        | 1.25                           | 0.47                           |
| Serie<br>Sisga | 1969 | 0.67                      | 0.37                        | 0.14                      | 1.12                      | 2.34                     | 2.14                      | 5.94                      | 3.19                       | 0.95                               | 4.65                        | 2.41                           | 0.68                           |
| Serie<br>Sisga | 1970 | 1.13                      | 0.88                        | 0.46                      | 0.78                      | 1.98                     | 3.62                      | 3.53                      | 3.55                       | 1.97                               | 4.29                        | 2.1                            | 0.93                           |
| Serie<br>Sisga | 1971 | 0.72                      | 0.47                        | 0.56                      | 1.42                      | 3.35                     | 3.12                      | 5.18                      | 2.65                       | 1.9                                | 0.99                        | 1.2                            | 0.71                           |
| Serie<br>Sisga | 1972 | 1.75                      | 1.25                        | 1.14                      | 4.39                      | 4.22                     | 5.27                      | 7.77                      | 3.17                       | 2.82                               | 0.83                        | 1.2                            | 0.5                            |
| Serie<br>Sisga | 1973 | 0.38                      | 0.29                        | 0.23                      | 0.31                      | 1.47                     | 1.31                      | 2.97                      | 3.31                       | 4.58                               | 1.83                        | 2.47                           | 1.3                            |
| Serie<br>Sisga | 1974 | 0.45                      | 0.5                         | 0.54                      | 1.23                      | 1.32                     | 1.47                      | 3.12                      | 2.26                       | 1.19                               | 1.3                         | 1.6                            | 0.66                           |
| Serie<br>Sisga | 1975 | 0.35                      | 0.39                        | 0.64                      | 0.47                      | 0.88                     | 3.54                      | 1.68                      | 2.99                       | 1.72                               | 1.68                        | 2.05                           | 2.1                            |
| Serie<br>Sisga | 1976 | 0.64                      | 0.29                        | 0.7                       | 1.67                      | 6.17                     | 10.28                     | 12.35                     | 3.65                       | 2.58                               | 3.76                        | 3.22                           | 1.15                           |
| Serie<br>Sisga | 1977 | 0.25                      | 0.15                        | 0.15                      | 0.69                      | 0.91                     | 2.4                       | 3.93                      | 2.94                       | 4.14                               | 1.4                         | 3.26                           | 0.39                           |
| Serie<br>Sisga | 1978 | 0.16                      | 0.2                         | 0.2                       | 1.58                      | 1.56                     | 4.88                      | 3.62                      | 4.78                       | 2.1                                | 1.99                        | 0.69                           | 0.57                           |
| Serie<br>Sisga | 1979 | 0.42                      | 0.36                        | 0.42                      | 1.42                      | 2.16                     | 5.38                      | 3.03                      | 3.69                       | 1.54                               | 4.94                        | 5.35                           | 3                              |
| Serie<br>Sisga | 1980 | 0.69                      | 0.3                         | 0.22                      | 1.39                      | 2.61                     | 7.57                      | 5.74                      | 2.75                       | 2.95                               | 2.79                        | 0.65                           | 0.25                           |
| Serie<br>Sisga | 1981 | 0.21                      | 0.18                        | 0.22                      | 2.81                      | 5.73                     | 3.13                      | 1.63                      | 1.58                       | 1.3                                | 1.71                        | 1.21                           | 0.49                           |
| Serie<br>Sisga | 1982 | 0.24                      | 0.21                        | 0.51                      | 3.9                       | 2.93                     | 2.67                      | 7.16                      | 6.56                       | 3.02                               | 2.15                        | 0.79                           | 0.38                           |
| Serie<br>Sisga | 1983 | 0.3                       | 0.72                        | 1.04                      | 1.85                      | 1.66                     | 1.93                      | 5.47                      | 4.14                       | 1.42                               | 1.64                        | 0.52                           | 0.35                           |
| Serie<br>Sisga | 1984 | 0.23                      | 0.2                         | 0.19                      | 0.6                       | 2.05                     | 7.15                      | 2.78                      | 3.35                       | 2.23                               | 0.61                        | 1.06                           | 0.36                           |

| Nombre         | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|----------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Serie<br>Sisga | 1985 | 0.48                      | 0.24                        | 0.37                      | 0.86                      | 2.11                     | 6.82                      | 3.53                      | 2.32                       | 2.57                               | 2.02                        | 3.27                           | 1.9                            |
| Serie<br>Sisga | 1986 | 0.27                      | 0.77                        | 1.28                      | 0.9                       | 1.51                     | 8.93                      | 10.83                     | 4.56                       | 1.35                               | 3.57                        | 1.54                           | 0.55                           |
| Serie<br>Sisga | 1987 | 0.29                      | 0.28                        | 0.24                      | 0.69                      | 2.13                     | 1.87                      | 7.58                      | 2.53                       | 1.37                               | 1.38                        | 0.97                           | 0.75                           |
| Serie<br>Sisga | 1988 | 0.31                      | 0.24                        | 0.21                      | 0.25                      | 0.95                     | 1.95                      | 4.58                      | 1.11                       | 0.95                               | 1.59                        | 2.19                           | 0.99                           |
| Serie<br>Sisga | 1989 | 0.28                      | 0.28                        | 0.99                      | 0.95                      | 4.56                     | 4.44                      | 6.51                      | 1.52                       | 0.83                               | 0.53                        | 0.52                           | 0.44                           |
| Serie<br>Sisga | 1990 | 0.24                      | 0.27                        | 0.71                      | 0.95                      | 7.39                     | 5.92                      | 3.79                      | 4                          | 0.71                               | 1.41                        | 1.24                           | 0.91                           |
| Serie<br>Sisga | 1991 | 0.42                      | 0.32                        | 0.83                      | 0.9                       | 1.05                     | 1.91                      | 9.19                      | 7.95                       | 1.95                               | 1.14                        | 1.29                           | 0.36                           |
| Serie<br>Sisga | 1992 | 0.28                      | 0.23                        | 0.2                       | 0.47                      | 0.61                     | 2.11                      | 8                         | 4.59                       | 1.76                               | 0.68                        | 2.22                           | 0.56                           |
| Serie<br>Sisga | 1993 | 0.36                      | 0.26                        | 0.34                      | 0.47                      | 2.25                     | 5.7                       | 9.09                      | 4.55                       | 2.25                               | 0.94                        | 1.14                           | 0.68                           |
| Serie<br>Sisga | 1994 | 0.33                      | 0.21                        | 0.33                      | 0.45                      | 2.39                     | 5.02                      | 8.27                      | 4.68                       | 3.47                               | 2.85                        | 1.16                           | 0.63                           |
| Serie<br>Sisga | 1995 | 0.24                      | 0.17                        | 0.5                       | 0.97                      | 1.54                     | 2.77                      | 4.66                      | 3.15                       | 0.89                               | 0.73                        | 0.52                           | 0.36                           |
| Serie<br>Sisga | 1996 | 0.22                      | 0.58                        | 1.51                      | 0.96                      | 3.66                     | 5.2                       | 8.02                      | 6.59                       | 1.4                                | 1.45                        | 0.38                           | 0.45                           |
| Serie<br>Sisga | 1997 | 0.7                       | 0.74                        | 0.32                      | 0.59                      | 2.06                     | 2.61                      | 13.49                     | 5.98                       | 0.87                               | 0.27                        | 0.25                           | 0.16                           |
| Serie<br>Sisga | 1998 | 0.09                      | 0.08                        | 0.05                      | 0.4                       | 3.06                     | 7.88                      | 9.55                      | 4.33                       | 0.92                               | 0.95                        | 1.35                           | 1.76                           |
| Serie<br>Sisga | 1999 | 0.3                       | 1                           | 1.83                      | 4.5                       | 2.43                     | 6.05                      | 4.95                      | 3.46                       | 6.84                               | 5.05                        | 1.03                           | 0.53                           |
| Serie<br>Sisga | 2000 | 0.34                      | 0.28                        | 0.58                      | 0.56                      | 3.09                     | 7.79                      | 6.01                      | 8.03                       | 5.11                               | 2.27                        | 2.54                           | 0.63                           |
| Serie<br>Sisga | 2001 | 0.28                      | 0.17                        | 0.24                      | 0.27                      | 0.95                     | 3.06                      | 2.63                      | 6.14                       | 4.85                               | 1.03                        | 1.45                           | 0.9                            |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Sisga   | 2002       | 0.11                               | 0.23                                 | 0.58                               | 2.3                                | 4.82                              | 11.66                              | 7.48                               | 10.43                               | 1.61                                         | 0.89                                 | 0.79                                    | 0.25                                    |
| Serie Sisga   | 2003       | 0.11                               | 0.13                                 | 0.3                                | 0.97                               | 3.26                              | 1.53                               | 4.14                               | 2.81                                | 1.69                                         | 1.67                                 | 1.01                                    | 0.58                                    |
| Serie Sisga   | 2004       | 0.42                               | 0.19                                 | 0.41                               | 1.96                               | 5.52                              | 11.63                              | 5.94                               | 7.34                                | 2.81                                         | 1.98                                 | 1.37                                    | 0.4                                     |
| Serie Sisga   | 2005       | 0.24                               | 0.21                                 | 0.16                               | 1.4                                | 4.29                              | 2.83                               | 3.25                               | 2.28                                | 1.95                                         | 1.56                                 | 1.58                                    | 1.42                                    |
| Serie Sisga   | 2006       | 0.22                               | 0.16                                 | 0.76                               | 3.16                               | 5.88                              | 7.09                               | 6.86                               | 3.38                                | 1.71                                         | 3.22                                 | 2.6                                     | 0.68                                    |
| Serie Sisga   | 2007       | 0.22                               | 0.13                                 | 0.21                               | 1.07                               | 1.68                              | 5.2                                | 3.71                               | 3.58                                | 2.09                                         | 2.39                                 | 1.48                                    | 0.46                                    |
| Serie Sisga   | 2008       | 0.43                               | 0.27                                 | 0.32                               | 0.65                               | 2.85                              | 5.83                               | 6.52                               | 4.27                                | 1.87                                         | 1.8                                  | 3.64                                    | 1                                       |
| Serie Sisga   | 2009       | 0.66                               | 0.4                                  | 0.52                               | 0.81                               | 1.81                              | 2.27                               | 5.94                               | 5.18                                | 2.13                                         | 2.14                                 | 0.69                                    | 0.14                                    |
| Serie Sisga   | 2010       | 0.11                               | 0.12                                 | 0.16                               | 1.37                               | 3.18                              | 4.25                               | 5.94                               | 2.85                                | 1.61                                         | 2.39                                 | 3.78                                    | 1.58                                    |
| Serie Sisga   | 2011       | 0.41                               | 0.37                                 | 2.7                                | 9.45                               | 7.33                              | 6.32                               | 3.94                               | 2.72                                | 2.72                                         | 4.58                                 | 5.44                                    | 2.17                                    |
| Serie Sisga   | 2012       | 0.45                               | 0.32                                 | 0.99                               | 6.65                               | 3.57                              | 3.87                               | 11                                 | 5.77                                | 2.9                                          | 2.15                                 | 0.99                                    | 0.39                                    |
| Serie Sisga   | 2013       | 0.09                               | 0.05                                 | 0.32                               | 0.69                               | 5.13                              | 3.01                               | 5.1                                | 5.21                                | 2.29                                         | 1.23                                 | 2.33                                    | 1.04                                    |
| Serie Sisga   | 2014       | 0.14                               | 0.04                                 | 0.35                               | 0.77                               | 1.12                              | 7.88                               | 9.92                               | 5.31                                | 3.35                                         | 1.55                                 | 1.2                                     | 0.59                                    |
| Serie Sisga   | 2015       | 0.22                               | 0.31                                 | 0.16                               | 0.86                               | 1.47                              | 10.28                              | 8.93                               | 7.81                                | 2.18                                         | 0.61                                 | 0.78                                    | 0.53                                    |
| Serie Sisga   | 2016       | 0.17                               | 0.08                                 | 0.13                               | 1.01                               | 1.79                              | 4.07                               | 7.25                               | 4.35                                | 3.58                                         | 1.24                                 | 2                                       | 1.02                                    |
| Serie Sisga   | 2017       | 1.66                               | 1.75                                 | 2.35                               | 1.21                               | 4.71                              | 4.89                               | 8.93                               | 2.89                                | 2.08                                         | 0.92                                 | 0.71                                    | 0.46                                    |

| <b>Nombre</b>                     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Tomine (Hidrologia Antigua) | 1947       | 0.8                                | 0.53                                 | 0.34                               | 0.85                               | 0.91                              | 4.36                               | 6.48                               | 4.56                                | 2.98                                         | 5.62                                 | 1.35                                    | 0.8                                     |
| Serie Tomine (Hidrologia Antigua) | 1948       | 0.7                                | 0.69                                 | 0.54                               | 2.53                               | 3.03                              | 4.33                               | 3.9                                | 3.08                                | 1.89                                         | 1.19                                 | 2.37                                    | 1.09                                    |
| Serie Tomine (Hidrologia Antigua) | 1949       | 0.88                               | 0.85                                 | 0.96                               | 2.37                               | 4.35                              | 5.72                               | 7.95                               | 5.12                                | 3.3                                          | 3.27                                 | 3.52                                    | 2.14                                    |
| Serie Tomine (Hidrologia Antigua) | 1950       | 1.11                               | 0.95                                 | 4.13                               | 1.98                               | 4.98                              | 4.5                                | 8.21                               | 4.42                                | 3.04                                         | 3.42                                 | 2.46                                    | 2.13                                    |
| Serie Tomine (Hidrologia Antigua) | 1951       | 1.09                               | 1.73                                 | 3.38                               | 3.19                               | 7.87                              | 7.69                               | 10.16                              | 6.6                                 | 2.76                                         | 2.84                                 | 3.94                                    | 0.8                                     |
| Serie Tomine (Hidrologia Antigua) | 1952       | 0.8                                | 0.79                                 | 0.7                                | 3.54                               | 6.61                              | 4.85                               | 10.03                              | 6.87                                | 2.49                                         | 1.34                                 | 3.68                                    | 2.19                                    |
| Serie Tomine (Hidrologia Antigua) | 1953       | 0.51                               | 0.43                                 | 1.26                               | 1.67                               | 4.71                              | 4.96                               | 5.53                               | 5.26                                | 2.36                                         | 2.85                                 | 2.16                                    | 1.75                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1954       | 0.66                               | 0.56                                 | 0.54                               | 1.98                               | 4.41                              | 4.22                               | 9.74                               | 6.82                                | 2.27                                         | 7.93                                 | 5.25                                    | 1.69                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1955       | 1.93                               | 0.81                                 | 2.56                               | 3.07                               | 3.74                              | 3.34                               | 10.16                              | 3.72                                | 4.9                                          | 7.46                                 | 5.8                                     | 3.29                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1956       | 3.35                               | 1.09                                 | 2.33                               | 1.26                               | 4.68                              | 9.76                               | 8.41                               | 6.67                                | 5.14                                         | 6.35                                 | 2.93                                    | 2.9                                     |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1957       | 0.7                                | 0.33                                 | 2.76                               | 3.2                                | 10.08                             | 7.33                               | 9.69                               | 7.54                                | 3.86                                         | 3.76                                 | 3                                       | 1.76                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1958       | 0.49                               | 0.26                                 | 1.14                               | 0.73                               | 2.9                               | 3.15                               | 6.3                                | 5.11                                | 1.61                                         | 0.88                                 | 1                                       | 0.47                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1959       | 0.29                               | 0.17                                 | 0.21                               | 0.56                               | 2.7                               | 4.55                               | 10.53                              | 5.16                                | 5.98                                         | 5.52                                 | 4.46                                    | 1.66                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1960       | 0.92                               | 0.79                                 | 0.8                                | 2.08                               | 2.69                              | 4.36                               | 6.65                               | 5.93                                | 2.92                                         | 1.63                                 | 1.18                                    | 2.76                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1961       | 0.6                                | 0.54                                 | 0.71                               | 3.12                               | 1.57                              | 7.93                               | 8.23                               | 7.1                                 | 2.34                                         | 3.84                                 | 3.32                                    | 0.8                                     |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1962       | 0.4                                | 0.38                                 | 0.89                               | 0.99                               | 4.31                              | 7.23                               | 8.87                               | 7.44                                | 4.54                                         | 3.71                                 | 4.39                                    | 1.96                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1963       | 0                                  | 0.69                                 | 0.1                                | 3.1                                | 10.63                             | 7.02                               | 7.14                               | 6.03                                | 2.95                                         | 2.58                                 | 5.22                                    | 2.33                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1964       | 0                                  | 0                                    | 0                                  | 1.87                               | 5.53                              | 8.49                               | 6.42                               | 3.9                                 | 2.61                                         | 2.3                                  | 1.58                                    | 2.29                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1965       | 0.46                               | 0                                    | 0                                  | 4.62                               | 9.44                              | 6.99                               | 14.11                              | 8.98                                | 1.38                                         | 3.59                                 | 6.33                                    | 0.44                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1966       | 0.7                                | 1.06                                 | 3.67                               | 1.99                               | 1.82                              | 2.35                               | 5.58                               | 5.72                                | 2.69                                         | 2.03                                 | 6.05                                    | 6.47                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1967       | 1.16                               | 0.46                                 | 2.7                                | 4.21                               | 6.21                              | 11.61                              | 9.17                               | 11.19                               | 2.84                                         | 3.35                                 | 4.93                                    | 2.75                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1968       | 0                                  | 0.89                                 | 0                                  | 7.06                               | 2.68                              | 11.31                              | 16.14                              | 8.64                                | 2.53                                         | 4.9                                  | 2.56                                    | 0                                       |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1969       | 0.48                               | 0                                    | 0                                  | 4.1                                | 2.96                              | 3.72                               | 3.35                               | 4.38                                | 1.73                                         | 10                                   | 2.44                                    | 0.5                                     |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1970       | 0.76                               | 2.13                                 | 1.18                               | 0.69                               | 3.04                              | 9.55                               | 6.18                               | 5.75                                | 5.3                                          | 8.59                                 | 7.29                                    | 0.13                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1971       | 0.76                               | 0.11                                 | 1.63                               | 5.36                               | 6.5                               | 7.18                               | 9.23                               | 4.88                                | 5.28                                         | 1.4                                  | 1.1                                     | 0.53                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1972       | 3.21                               | 0                                    | 1.39                               | 9.9                                | 11.81                             | 11.43                              | 18.34                              | 5.83                                | 3.68                                         | 2.85                                 | 3.07                                    | 1.3                                     |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1973       | 1.6                                | 2.18                                 | 2.97                               | 3.58                               | 4.56                              | 6.03                               | 5.6                                | 3.3                                 | 7.82                                         | 5.15                                 | 6.26                                    | 5.27                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1974       | 0.46                               | 0.61                                 | 1.98                               | 4.03                               | 6.88                              | 3.88                               | 8.88                               | 5.67                                | 3                                            | 3.39                                 | 3.38                                    | 0.43                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1975       | 0                                  | 0.24                                 | 1.1                                | 0.99                               | 3.97                              | 11.28                              | 3.05                               | 6.45                                | 5.59                                         | 5.29                                 | 3.29                                    | 6.8                                     |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1976       | 0.63                               | 0.69                                 | 2.56                               | 7.32                               | 7.71                              | 13.48                              | 17.94                              | 5.91                                | 2.98                                         | 6.68                                 | 6.13                                    | 1.17                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1977       | 0                                  | 0                                    | 0.71                               | 3.46                               | 2.23                              | 4.92                               | 8.32                               | 3.91                                | 4.48                                         | 2.34                                 | 2.74                                    | 0.01                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1978       | 0                                  | 0.36                                 | 0.75                               | 4.66                               | 2.8                               | 8.22                               | 6.03                               | 3.83                                | 2.67                                         | 2.5                                  | 0.96                                    | 0.21                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1979       | 0.01                               | 0.2                                  | 1.76                               | 4.93                               | 5.22                              | 11.86                              | 4.49                               | 4.22                                | 2.06                                         | 15.02                                | 12.05                                   | 3.26                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1980       | 0.46                               | 0.01                                 | 0.2                                | 3.34                               | 2.84                              | 10.5                               | 5.96                               | 3.61                                | 2.84                                         | 4.67                                 | 1.66                                    | 0.27                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1981       | 0.53                               | 0.53                                 | 1.89                               | 8.44                               | 13.91                             | 5.01                               | 4.77                               | 4.22                                | 5.54                                         | 5.79                                 | 4.3                                     | 0.74                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1982       | 0.87                               | 1.14                                 | 2.76                               | 10.18                              | 8.45                              | 3.54                               | 9.66                               | 6.76                                | 4.57                                         | 3.95                                 | 1.8                                     | 0.92                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1983       | 1.39                               | 1.2                                  | 3.21                               | 6                                  | 3.23                              | 4.23                               | 8.39                               | 6.21                                | 3.2                                          | 2.32                                 | 0.91                                    | 1.11                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1984       | 1.07                               | 1.04                                 | 0.87                               | 0.72                               | 3.17                              | 10.42                              | 4.75                               | 8.04                                | 6.33                                         | 1.96                                 | 6.34                                    | 0.15                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1985       | 0.17                               | 0.03                                 | 0                                  | 2.42                               | 6.8                               | 9.96                               | 7.04                               | 5.36                                | 4.12                                         | 6.4                                  | 5.47                                    | 2.11                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1986       | 0.63                               | 3.94                                 | 5.02                               | 1.58                               | 2.82                              | 13.45                              | 11.24                              | 5.44                                | 2.16                                         | 5.94                                 | 3.38                                    | 1                                       |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1987       | 0                                  | 0.23                                 | 0.33                               | 1.52                               | 3.29                              | 3.3                                | 8.79                               | 4.73                                | 2.01                                         | 6.62                                 | 3.25                                    | 0.92                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1988       | 0                                  | 0                                    | 0                                  | 0                                  | 0.8                               | 3.49                               | 9.05                               | 2.75                                | 3.04                                         | 3.85                                 | 6.18                                    | 4.16                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1989       | 0                                  | 0                                    | 4.39                               | 1.89                               | 4.22                              | 8.39                               | 8.04                               | 2.49                                | 0.72                                         | 0                                    | 1.03                                    | 0.65                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1990       | 0                                  | 1.07                                 | 1.1                                | 1.29                               | 9.61                              | 7.65                               | 4.52                               | 4.58                                | 0.24                                         | 1.92                                 | 1.72                                    | 1.68                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1991       | 0                                  | 0                                    | 0.78                               | 1.28                               | 0.97                              | 2.04                               | 11.75                              | 9.07                                | 2.57                                         | 1.09                                 | 3.88                                    | 0                                       |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1992       | 0                                  | 0                                    | 1.45                               | 2.68                               | 1.49                              | 1.62                               | 8.79                               | 4.06                                | 2.3                                          | 1.32                                 | 4.16                                    | 2.33                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1993       | 0.45                               | 0.04                                 | 0                                  | 0.9                                | 5.11                              | 7.94                               | 9.14                               | 5.19                                | 2.87                                         | 1.66                                 | 2.12                                    | 0.43                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1994       | 0.56                               | 0.5                                  | 1.02                               | 0.78                               | 4.76                              | 7.07                               | 14.96                              | 7.54                                | 5.42                                         | 9.74                                 | 2.89                                    | 1.3                                     |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1995       | 0.69                               | 0.67                                 | 1.07                               | 1.43                               | 3.48                              | 4.19                               | 4.13                               | 5.16                                | 1.27                                         | 1.44                                 | 1.16                                    | 1.72                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1996       | 4.07                               | 2.83                                 | 5.03                               | 3.2                                | 5.28                              | 4.6                                | 12.51                              | 4.79                                | 0.45                                         | 3.56                                 | 1.96                                    | 1.4                                     |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1997       | 3.03                               | 0.77                                 | 0.35                               | 1.32                               | 4.05                              | 3.05                               | 17.94                              | 5                                   | 2.45                                         | 1.32                                 | 1.54                                    | 0.69                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1998       | 0.21                               | 0.89                                 | 0.83                               | 0.79                               | 7.08                              | 9.82                               | 11.26                              | 1.31                                | 3.64                                         | 1.75                                 | 2.68                                    | 2.85                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 1999       | 1.26                               | 2.51                                 | 2.58                               | 5.18                               | 2.64                              | 5.08                               | 3.04                               | 4.83                                | 5.39                                         | 9.59                                 | 5.93                                    | 2.16                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2000       | 1.63                               | 1.34                                 | 1.78                               | 3.45                               | 4.2                               | 6.16                               | 7.45                               | 6.02                                | 5.42                                         | 3.6                                  | 4.52                                    | 2.14                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2001       | 0.52                               | 0.7                                  | 1.18                               | 0.54                               | 3.64                              | 7.46                               | 5.42                               | 7.9                                 | 4.29                                         | 1.85                                 | 3.73                                    | 3.37                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2002       | 0.71                               | 0.78                                 | 1.07                               | 3.07                               | 6.66                              | 16.84                              | 13.74                              | 14.97                               | 2.47                                         | 1.61                                 | 2.73                                    | 0.57                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2003       | 0.58                               | 1.91                                 | 1.82                               | 3.06                               | 6.05                              | 3.14                               | 6.27                               | 5.09                                | 3.54                                         | 3.86                                 | 2.95                                    | 1.91                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2004       | 1.59                               | 2.1                                  | 2.63                               | 3.84                               | 7.78                              | 15.87                              | 5.89                               | 7.68                                | 4.62                                         | 4.87                                 | 4.73                                    | 2.41                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2005       | 0.97                               | 1.38                                 | 0.97                               | 4.27                               | 7.52                              | 5.02                               | 3.61                               | 5.42                                | 4.87                                         | 6.05                                 | 9.82                                    | 1.03                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2006       | 0.86                               | 1.01                                 | 3.02                               | 7.81                               | 13.47                             | 9.4                                | 8.55                               | 4.05                                | 2.2                                          | 5.2                                  | 5.04                                    | 1.42                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2007       | 0.31                               | 0.71                                 | 0.75                               | 2.2                                | 2.07                              | 8                                  | 4.9                                | 5.19                                | 2.9                                          | 3.84                                 | 2.59                                    | 2.3                                     |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2008       | 0.95                               | 1.33                                 | 0.92                               | 1.74                               | 6.2                               | 7.55                               | 10.42                              | 6.3                                 | 4.51                                         | 3.4                                  | 10.07                                   | 3.21                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2009       | 1.86                               | 1.35                                 | 1.76                               | 4.23                               | 2.65                              | 4.07                               | 9.29                               | 4.87                                | 2.69                                         | 1.87                                 | 1.33                                    | 0.41                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2010       | 0.37                               | 0.62                                 | 0.53                               | 4.05                               | 5.67                              | 6.14                               | 8.27                               | 4.05                                | 3.11                                         | 5.4                                  | 9.43                                    | 3.37                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2011       | 1.33                               | 2.07                                 | 8.16                               | 15.37                              | 11.87                             | 7.21                               | 5.71                               | 3.35                                | 3.19                                         | 9.31                                 | 11.4                                    | 5.69                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2012       | 1.46                               | 1.34                                 | 2.98                               | 13.35                              | 7.6                               | 6.45                               | 11.34                              | 7.63                                | 3.71                                         | 5.01                                 | 2.21                                    | 0.77                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2013       | 0.23                               | 1.34                                 | 2.08                               | 3.34                               | 7.59                              | 3.56                               | 4.81                               | 5.65                                | 2.54                                         | 1.45                                 | 5.19                                    | 2.69                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2014       | 0.81                               | 0.15                                 | 3.78                               | 1.67                               | 2.58                              | 14.33                              | 13.94                              | 6.47                                | 4.81                                         | 2.99                                 | 3.71                                    | 2.08                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2015       | 0.61                               | 1.21                                 | 0.71                               | 1.55                               | 2.72                              | 13.86                              | 11.66                              | 9.97                                | 3.7                                          | 0.82                                 | 1.81                                    | 0.97                                    |
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2016       | 0.71                               | 0.39                                 | 0.66                               | 4.15                               | 3.9                               | 6.63                               | 9.5                                | 5.54                                | 4.95                                         | 2.1                                  | 3.75                                    | 3.09                                    |

| Nombre                                         | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|------------------------------------------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Serie<br>Tomine<br>(Hidrolog<br>ia<br>Antigua) | 2017 | 2.02                      | 1.87                        | 4.63                      | 2.45                      | 8.25                     | 7.3                       | 8.41                      | 4.33                       | 4.25                               | 2.31                        | 2.73                           | 2.07                           |
| Serie<br>Baraya                                | 1944 | 0.72                      | 0.43                        | 0.58                      | 2.88                      | 10.08                    | 8.78                      | 8.78                      | 3.74                       | 2.45                               | 2.16                        | 2.3                            | 0.72                           |
| Serie<br>Baraya                                | 1945 | 0.58                      | 0.29                        | 0.29                      | 2.88                      | 9.94                     | 4.75                      | 6.05                      | 6.05                       | 1.58                               | 1.73                        | 1.58                           | 0.72                           |
| Serie<br>Baraya                                | 1946 | 0.72                      | 0.29                        | 0.43                      | 0.72                      | 3.02                     | 5.18                      | 10.8                      | 13.39                      | 3.6                                | 1.15                        | 1.01                           | 0.86                           |
| Serie<br>Baraya                                | 1947 | 0.29                      | 0.43                        | 0.29                      | 0.29                      | 1.01                     | 5.62                      | 12.38                     | 6.62                       | 3.31                               | 9.07                        | 2.02                           | 0.58                           |
| Serie<br>Baraya                                | 1948 | 0.43                      | 0.43                        | 0.29                      | 1.44                      | 2.88                     | 4.9                       | 6.62                      | 3.6                        | 2.74                               | 1.3                         | 3.6                            | 1.01                           |
| Serie<br>Baraya                                | 1949 | 0.43                      | 0.43                        | 0.43                      | 3.17                      | 4.46                     | 4.46                      | 7.2                       | 6.77                       | 3.02                               | 2.02                        | 3.74                           | 1.58                           |
| Serie<br>Baraya                                | 1950 | 0.86                      | 1.15                        | 2.74                      | 0.86                      | 5.9                      | 5.9                       | 6.77                      | 4.61                       | 2.3                                | 3.31                        | 3.46                           | 2.59                           |
| Serie<br>Baraya                                | 1951 | 1.15                      | 1.3                         | 3.31                      | 4.03                      | 7.63                     | 9.36                      | 17.86                     | 6.48                       | 3.17                               | 7.06                        | 6.19                           | 1.44                           |
| Serie<br>Baraya                                | 1952 | 0.86                      | 0.72                        | 0.58                      | 4.32                      | 4.61                     | 6.91                      | 12.24                     | 7.92                       | 3.31                               | 2.45                        | 6.34                           | 2.59                           |
| Serie<br>Baraya                                | 1953 | 0.86                      | 0.86                        | 1.15                      | 1.44                      | 4.46                     | 6.48                      | 4.75                      | 2.74                       | 2.45                               | 4.61                        | 4.32                           | 1.73                           |
| Serie<br>Baraya                                | 1954 | 0.86                      | 0.72                        | 0.58                      | 2.02                      | 4.32                     | 7.34                      | 9.07                      | 6.77                       | 2.45                               | 7.49                        | 4.75                           | 2.02                           |
| Serie<br>Baraya                                | 1955 | 1.47                      | 0.96                        | 2.35                      | 2.78                      | 4.41                     | 3.14                      | 5.43                      | 3.73                       | 3.6                                | 4.19                        | 4.42                           | 3.21                           |
| Serie<br>Baraya                                | 1956 | 2.72                      | 1.74                        | 3.31                      | 1.8                       | 2.38                     | 7.42                      | 6.68                      | 9.06                       | 5.34                               | 10.01                       | 3.73                           | 2.39                           |
| Serie<br>Baraya                                | 1957 | 0.78                      | 0.5                         | 0.91                      | 1.07                      | 9.48                     | 9.26                      | 11.35                     | 8.73                       | 3.99                               | 4.55                        | 4.03                           | 2.29                           |
| Serie<br>Baraya                                | 1958 | 0.82                      | 0.43                        | 0.6                       | 1.02                      | 2.46                     | 3.95                      | 9.75                      | 6.62                       | 3.34                               | 1.45                        | 1.97                           | 0.84                           |

| Nombre       | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Serie Baraya | 1959 | 0.45                      | 0.5                         | 0.58                      | 0.86                      | 2.91                     | 4.9                       | 9.36                      | 6.24                       | 5.77                               | 4.97                        | 4.23                           | 1.37                           |
| Serie Baraya | 1960 | 0.79                      | 0.63                        | 0.5                       | 0.91                      | 1.89                     | 3.24                      | 6.32                      | 11.15                      | 6.54                               | 2.4                         | 1.79                           | 2.29                           |
| Serie Baraya | 1961 | 0.55                      | 0.37                        | 0.48                      | 0.95                      | 0.63                     | 6.58                      | 6.38                      | 6.57                       | 1.83                               | 3                           | 5.13                           | 0.96                           |
| Serie Baraya | 1962 | 0.46                      | 0.39                        | 0.58                      | 0.46                      | 2.89                     | 5.39                      | 9.35                      | 6.08                       | 2.82                               | 2.52                        | 2.79                           | 1.3                            |
| Serie Baraya | 1963 | 0.6                       | 0.48                        | 0.42                      | 1.18                      | 10.04                    | 7.2                       | 8.8                       | 9.03                       | 3.69                               | 1.15                        | 3.34                           | 1.14                           |
| Serie Baraya | 1964 | 0.43                      | 0.36                        | 0.37                      | 0.62                      | 2.26                     | 5.9                       | 6.54                      | 3.67                       | 3.69                               | 2.02                        | 2.88                           | 1.37                           |
| Serie Baraya | 1965 | 0.63                      | 0.4                         | 0.48                      | 2.66                      | 7.73                     | 7.19                      | 14.73                     | 10.44                      | 2.98                               | 4.85                        | 5.72                           | 2                              |
| Serie Baraya | 1966 | 0.85                      | 0.45                        | 1.32                      | 1.12                      | 0.75                     | 1.56                      | 4.03                      | 4.23                       | 2.06                               | 1.51                        | 2.45                           | 4.55                           |
| Serie Baraya | 1967 | 0.88                      | 0.39                        | 0.59                      | 2.79                      | 6.12                     | 11.87                     | 10.24                     | 16.78                      | 4.72                               | 1.99                        | 3.25                           | 1.93                           |
| Serie Baraya | 1968 | 0.45                      | 0.45                        | 0.33                      | 3.9                       | 1.81                     | 8.05                      | 16.73                     | 10.99                      | 2.92                               | 3.18                        | 2.32                           | 0.88                           |
| Serie Baraya | 1969 | 1.24                      | 0.69                        | 0.26                      | 2.07                      | 4.33                     | 3.97                      | 11.03                     | 5.92                       | 1.76                               | 8.63                        | 4.48                           | 1.25                           |
| Serie Baraya | 1970 | 2.09                      | 1.62                        | 0.85                      | 1.46                      | 3.68                     | 6.72                      | 6.56                      | 6.58                       | 3.66                               | 7.96                        | 3.88                           | 1.73                           |
| Serie Baraya | 1971 | 1.34                      | 0.89                        | 1.03                      | 2.63                      | 6.22                     | 5.79                      | 9.61                      | 4.93                       | 3.53                               | 1.82                        | 2.23                           | 1.31                           |
| Serie Baraya | 1972 | 3.25                      | 2.32                        | 2.13                      | 8.16                      | 7.83                     | 9.77                      | 14.41                     | 5.89                       | 5.25                               | 1.53                        | 2.21                           | 0.93                           |
| Serie Baraya | 1973 | 0.71                      | 0.53                        | 0.43                      | 0.57                      | 2.73                     | 2.43                      | 5.52                      | 6.14                       | 8.5                                | 3.4                         | 4.58                           | 2.41                           |
| Serie Baraya | 1974 | 0.8                       | 0.91                        | 1                         | 2.22                      | 2.44                     | 2.74                      | 5.79                      | 4.19                       | 2.2                                | 2.41                        | 2.97                           | 1.22                           |
| Serie Baraya | 1975 | 0.65                      | 0.72                        | 1.19                      | 0.88                      | 1.65                     | 6.57                      | 3.12                      | 5.54                       | 3.18                               | 3.26                        | 3.8                            | 3.9                            |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Baraya  | 1976       | 1.2                                | 0.55                                 | 1.01                               | 3.1                                | 11.44                             | 12.39                              | 12.46                              | 6.77                                | 4.8                                          | 6.98                                 | 5.98                                    | 2.14                                    |
| Serie Baraya  | 1977       | 0.46                               | 0.27                                 | 0.27                               | 1.28                               | 1.69                              | 4.45                               | 7.31                               | 5.46                                | 7.68                                         | 2.6                                  | 6.04                                    | 0.72                                    |
| Serie Baraya  | 1978       | 0.31                               | 0.37                                 | 0.37                               | 2.93                               | 2.89                              | 9.06                               | 6.71                               | 8.87                                | 3.9                                          | 3.7                                  | 1.28                                    | 1.06                                    |
| Serie Baraya  | 1979       | 0.77                               | 0.66                                 | 0.78                               | 2.63                               | 4.01                              | 9.98                               | 5.61                               | 6.85                                | 2.86                                         | 9.17                                 | 9.94                                    | 5.57                                    |
| Serie Baraya  | 1980       | 1.38                               | 1.04                                 | 0.83                               | 1.47                               | 1.93                              | 8.28                               | 7.76                               | 4.18                                | 4.13                                         | 5.62                                 | 1.64                                    | 1.07                                    |
| Serie Baraya  | 1981       | 0.84                               | 0.75                                 | 0.89                               | 2.3                                | 8.14                              | 5.21                               | 3.21                               | 3.53                                | 3.04                                         | 5.46                                 | 2.81                                    | 1.34                                    |
| Serie Baraya  | 1982       | 1.18                               | 0.94                                 | 1.48                               | 7.28                               | 5.54                              | 6.27                               | 12.43                              | 11.48                               | 5.96                                         | 2.45                                 | 1.87                                    | 1.29                                    |
| Serie Baraya  | 1983       | 1.12                               | 1.37                                 | 1.85                               | 3.87                               | 2.85                              | 3.53                               | 8.78                               | 8.72                                | 3.19                                         | 3.32                                 | 1.87                                    | 1.3                                     |
| Serie Baraya  | 1984       | 0.24                               | 0.2                                  | 0.25                               | 0.31                               | 0.87                              | 6.81                               | 6.31                               | 6.72                                | 6.55                                         | 2.12                                 | 2.91                                    | 0.95                                    |
| Serie Baraya  | 1985       | 0.26                               | 0.14                                 | 0.45                               | 1.48                               | 3.07                              | 10.63                              | 7.32                               | 6.06                                | 5.69                                         | 7                                    | 6.24                                    | 4.42                                    |
| Serie Baraya  | 1986       | 0.24                               | 1.45                                 | 4.12                               | 1.81                               | 3.09                              | 10.32                              | 14.6                               | 9.34                                | 3.37                                         | 5.92                                 | 3.41                                    | 1.54                                    |
| Serie Baraya  | 1987       | 0.24                               | 0.17                                 | 0.19                               | 1.1                                | 3.81                              | 5.7                                | 10.14                              | 7.68                                | 3.39                                         | 5.22                                 | 3.61                                    | 2.01                                    |
| Serie Baraya  | 1988       | 0.39                               | 0.27                                 | 0.16                               | 1.08                               | 1.95                              | 3.96                               | 7.99                               | 2.12                                | 2.53                                         | 4.41                                 | 7.36                                    | 6.03                                    |
| Serie Baraya  | 1989       | 0.97                               | 0.83                                 | 5.02                               | 2.42                               | 5.55                              | 8.11                               | 12.52                              | 3.29                                | 2.74                                         | 3.23                                 | 3.72                                    | 2.55                                    |
| Serie Baraya  | 1990       | 0.81                               | 1.13                                 | 2.19                               | 2.32                               | 8.34                              | 9.17                               | 11.44                              | 7.53                                | 2.55                                         | 2.78                                 | 3.15                                    | 3.21                                    |
| Serie Baraya  | 1991       | 1.22                               | 0.99                                 | 1.67                               | 2.04                               | 2.79                              | 3.66                               | 12.23                              | 13                                  | 5                                            | 1.7                                  | 2.69                                    | 1.05                                    |
| Serie Baraya  | 1992       | 0.67                               | 0.6                                  | 0.82                               | 1.47                               | 1.74                              | 3.38                               | 11.85                              | 8.98                                | 2.37                                         | 1.78                                 | 2.57                                    | 1.78                                    |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Baraya  | 1993       | 0.94                               | 0.9                                  | 1.26                               | 2.02                               | 3.55                              | 7.3                                | 7.03                               | 4.62                                | 2.64                                         | 1.57                                 | 2.34                                    | 2.07                                    |
| Serie Baraya  | 1994       | 1.05                               | 1.05                                 | 1.37                               | 1.81                               | 4.13                              | 4.83                               | 14.42                              | 7.18                                | 4.36                                         | 7.35                                 | 3.41                                    | 1.42                                    |
| Serie Baraya  | 1995       | 0.76                               | 0.6                                  | 0.82                               | 1.39                               | 1.92                              | 3.76                               | 3.43                               | 1.99                                | 1.6                                          | 1.43                                 | 1.74                                    | 1.43                                    |
| Serie Baraya  | 1996       | 1.2                                | 1.48                                 | 2.18                               | 0.96                               | 3.56                              | 2.84                               | 9.28                               | 3.58                                | 2.28                                         | 3.72                                 | 1.55                                    | 1.72                                    |
| Serie Baraya  | 1997       | 1.85                               | 1.52                                 | 0.9                                | 1.23                               | 2.85                              | 3.98                               | 13.46                              | 7.54                                | 1.48                                         | 0.92                                 | 1.32                                    | 0.61                                    |
| Serie Baraya  | 1998       | 0.5                                | 0.44                                 | 0.51                               | 0.86                               | 4.11                              | 7.73                               | 11.63                              | 2.26                                | 0.82                                         | 1.67                                 | 1.87                                    | 1.77                                    |
| Serie Baraya  | 1999       | 0.58                               | 0.62                                 | 1.19                               | 2.04                               | 1.88                              | 2.74                               | 3.15                               | 3.29                                | 5.16                                         | 4.96                                 | 4.03                                    | 2.32                                    |
| Serie Baraya  | 2000       | 0.92                               | 1.15                                 | 1.86                               | 1.53                               | 3.31                              | 4.94                               | 5.76                               | 6.31                                | 4                                            | 2.21                                 | 4.28                                    | 1.53                                    |
| Serie Baraya  | 2001       | 1.02                               | 1.14                                 | 1.09                               | 1.02                               | 1.93                              | 5.26                               | 4.09                               | 9.69                                | 4.51                                         | 1.63                                 | 3.45                                    | 4                                       |
| Serie Baraya  | 2002       | 1.73                               | 1.14                                 | 1.15                               | 3.13                               | 7.12                              | 14.14                              | 12.61                              | 12.96                               | 3.09                                         | 2.33                                 | 3.57                                    | 1.16                                    |
| Serie Baraya  | 2003       | 0.73                               | 0.61                                 | 1.67                               | 1.55                               | 3.64                              | 3.22                               | 7.97                               | 3.89                                | 3.13                                         | 4.14                                 | 3.85                                    | 3.13                                    |
| Serie Baraya  | 2004       | 1.16                               | 0.88                                 | 1.25                               | 2.33                               | 5.86                              | 12.62                              | 6.26                               | 7.09                                | 3.15                                         | 3.11                                 | 2.44                                    | 1.48                                    |
| Serie Baraya  | 2005       | 0.91                               | 0.79                                 | 1.15                               | 2.12                               | 2.88                              | 2.64                               | 3.3                                | 5.33                                | 4.77                                         | 4.23                                 | 4.65                                    | 1.3                                     |
| Serie Baraya  | 2006       | 0.91                               | 0.79                                 | 1.15                               | 4.44                               | 5.1                               | 8.89                               | 10.54                              | 4.23                                | 2.12                                         | 3.72                                 | 3.95                                    | 2.06                                    |
| Serie Baraya  | 2007       | 0.91                               | 0.76                                 | 1                                  | 2.04                               | 2.67                              | 5.59                               | 4.06                               | 4.03                                | 2.91                                         | 4.11                                 | 3.01                                    | 1.97                                    |
| Serie Baraya  | 2008       | 1.57                               | 1.47                                 | 1.76                               | 1.91                               | 3.29                              | 4.7                                | 6.13                               | 4.03                                | 2.78                                         | 2.34                                 | 6.96                                    | 2.65                                    |
| Serie Baraya  | 2009       | 1.23                               | 1.32                                 | 1.31                               | 1.92                               | 1.98                              | 3.09                               | 5.72                               | 5.61                                | 2.45                                         | 2.11                                 | 1.76                                    | 1.21                                    |

| Nombre                                     | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------------------------------------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Serie Baraya                               | 2010 | 1.11                      | 1.14                        | 1.22                      | 1.94                      | 2.92                     | 2.73                      | 5.29                      | 2.59                       | 1.65                               | 3.26                        | 6.9                            | 3.21                           |
| Serie Baraya                               | 2011 | 1.11                      | 1.49                        | 3.28                      | 12.8                      | 14.57                    | 7.5                       | 5.75                      | 4.5                        | 3.71                               | 5.52                        | 8.84                           | 5.35                           |
| Serie Baraya                               | 2012 | 1.77                      | 1.69                        | 1.85                      | 10.84                     | 3.07                     | 4.34                      | 8.26                      | 5.82                       | 3.15                               | 3.76                        | 2.14                           | 1.25                           |
| Serie Baraya                               | 2013 | 0.69                      | 0.69                        | 0.93                      | 1.2                       | 2.23                     | 1.28                      | 2.43                      | 2.59                       | 1.35                               | 1.33                        | 2.83                           | 1.34                           |
| Serie Baraya                               | 2014 | 0.54                      | 0.4                         | 0.97                      | 0.81                      | 1.06                     | 4.66                      | 7.03                      | 2.93                       | 2.19                               | 1.08                        | 0.91                           | 1.13                           |
| Serie Baraya                               | 2015 | 1.11                      | 1.32                        | 1.24                      | 2                         | 3.2                      | 13.38                     | 8.32                      | 9.32                       | 2.32                               | 0.35                        | 0.96                           | 1.14                           |
| Serie Baraya                               | 2016 | 0.12                      | 0.04                        | 0.04                      | 0.85                      | 3.3                      | 4.9                       | 7.73                      | 4.49                       | 3.74                               | 1.27                        | 3.77                           | 1.73                           |
| Serie Baraya                               | 2017 | 0.99                      | 1.01                        | 2.62                      | 1.35                      | 2.97                     | 6.65                      | 9.75                      | 3.01                       | 1.56                               | 1.57                        | 1.34                           | 0.95                           |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua) | 1953 | 0.92                      | 0.37                        | 0.51                      | 0.79                      | 2.14                     | 1.97                      | 0.72                      | 0.92                       | 1.28                               | 3.47                        | 3.25                           | 1.02                           |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua) | 1954 | 0.5                       | 0.38                        | 0.41                      | 0.89                      | 1.43                     | 1.88                      | 1.43                      | 1.43                       | 1.28                               | 5.2                         | 5.23                           | 1.63                           |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua) | 1955 | 1.12                      | 0.92                        | 1.63                      | 6.61                      | 2.96                     | 2.96                      | 2.55                      | 1.12                       | 2.37                               | 6.22                        | 4.34                           | 1.61                           |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua) | 1956 | 1.12                      | 1.81                        | 2.64                      | 1.78                      | 2.34                     | 2.86                      | 2.14                      | 1.32                       | 1.48                               | 7.03                        | 4.63                           | 2.75                           |

| <b>Nombre</b>                              | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua) | 1957       | 0.92                               | 1.01                                 | 1.22                               | 1.48                               | 5.2                               | 1.58                               | 0.72                               | 0.61                                | 0.4                                          | 2.04                                 | 2.76                                    | 1.63                                    |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua) | 1958       | 0.92                               | 0.55                                 | 0.61                               | 0.59                               | 1.32                              | 1.78                               | 1.43                               | 1.32                                | 0.69                                         | 1.73                                 | 2.37                                    | 0.81                                    |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua) | 1959       | 0.21                               | 0.46                                 | 1.12                               | 1.38                               | 2.45                              | 1.18                               | 1.94                               | 0.92                                | 0.99                                         | 3.06                                 | 1.4                                     | 1.12                                    |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua) | 1960       | 1.53                               | 0.57                                 | 1.02                               | 2.66                               | 1.73                              | 1.68                               | 1.63                               | 1.32                                | 0.99                                         | 2.24                                 | 1.68                                    | 1.94                                    |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua) | 1961       | 0.72                               | 0.46                                 | 1.22                               | 1.68                               | 0.81                              | 0.89                               | 0.92                               | 0.61                                | 0.59                                         | 1.94                                 | 3.35                                    | 0.72                                    |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua) | 1962       | 0.61                               | 0.64                                 | 1.12                               | 1.58                               | 2.45                              | 2.47                               | 1.83                               | 1.83                                | 0.99                                         | 1.53                                 | 5.13                                    | 1.32                                    |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua) | 1963       | 1.02                               | 1.1                                  | 1.12                               | 1.88                               | 5.2                               | 1.88                               | 1.12                               | 1.22                                | 0.99                                         | 1.22                                 | 3.65                                    | 1.12                                    |

| <b>Nombre</b>                    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Neusa (Hidrologia Antigua) | 1964       | 0.61                               | 0.57                                 | 0.21                               | 1.38                               | 1.32                              | 3.25                               | 1.43                               | 0.72                                | 0.59                                         | 0.72                                 | 1.08                                    | 1.22                                    |
| Serie Neusa (Hidrologia Antigua) | 1965       | 0.81                               | 0.74                                 | 0.61                               | 2.56                               | 1.16                              | 0.79                               | 0.92                               | 1.53                                | 0.69                                         | 4.69                                 | 7.1                                     | 1.83                                    |
| Serie Neusa (Hidrologia Antigua) | 1966       | 1.22                               | 0.64                                 | 1.32                               | 1.08                               | 2.05                              | 1.88                               | 1.22                               | 1.53                                | 1.48                                         | 2.64                                 | 4.24                                    | 4.49                                    |
| Serie Neusa (Hidrologia Antigua) | 1967       | 1.44                               | 1.52                                 | 0.89                               | 1.54                               | 2.23                              | 3.31                               | 3.41                               | 1.77                                | 0.95                                         | 1.35                                 | 2.82                                    | 1.77                                    |
| Serie Neusa (Hidrologia Antigua) | 1968       | 0.73                               | 0.61                                 | 0.57                               | 3.86                               | 3.19                              | 4.56                               | 2.49                               | 2.79                                | 2.48                                         | 2.81                                 | 2.96                                    | 0.8                                     |
| Serie Neusa (Hidrologia Antigua) | 1969       | 1.54                               | 1.07                                 | 0.92                               | 2.72                               | 3.13                              | 1.67                               | 1.98                               | 1.23                                | 1.91                                         | 5.3                                  | 2.02                                    | 1.29                                    |
| Serie Neusa (Hidrologia Antigua) | 1970       | 1.05                               | 1.01                                 | 0.84                               | 0.98                               | 1.78                              | 1.25                               | 1.25                               | 0.82                                | 1.7                                          | 3.98                                 | 3.83                                    | 1.25                                    |

| <b>Nombre</b>                    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Neusa (Hidrologia Antigua) | 1971       | 1.66                               | 1.7                                  | 2.49                               | 3.19                               | 5.06                              | 2.97                               | 1.74                               | 1.73                                | 2.79                                         | 2.52                                 | 3.87                                    | 2.01                                    |
| Serie Neusa (Hidrologia Antigua) | 1972       | 3.18                               | 1.35                                 | 1.44                               | 4.67                               | 4.46                              | 4.18                               | 3.62                               | 1.29                                | 2.08                                         | 1.49                                 | 2.7                                     | 1.22                                    |
| Serie Neusa (Hidrologia Antigua) | 1973       | 1.7                                | 1.66                                 | 2                                  | 2.11                               | 1.04                              | 1.1                                | 1.17                               | 1.28                                | 4.04                                         | 2.25                                 | 3.51                                    | 2.41                                    |
| Serie Neusa (Hidrologia Antigua) | 1974       | 1.45                               | 1.31                                 | 1.47                               | 2.19                               | 2.55                              | 0.97                               | 0.98                               | 0.89                                | 2.6                                          | 2.36                                 | 4.02                                    | 1.91                                    |
| Serie Neusa (Hidrologia Antigua) | 1975       | 1.68                               | 0.83                                 | 1.08                               | 1.36                               | 1.51                              | 1.48                               | 2.5                                | 1.58                                | 1.81                                         | 2.72                                 | 3.6                                     | 4.57                                    |
| Serie Neusa (Hidrologia Antigua) | 1976       | 1                                  | 1.73                                 | 1.57                               | 3.32                               | 2.98                              | 2.64                               | 2.66                               | 2.23                                | 1.91                                         | 3.8                                  | 3.74                                    | 1.88                                    |
| Serie Neusa (Hidrologia Antigua) | 1977       | 1.59                               | 1.16                                 | 1.15                               | 2.05                               | 1.65                              | 2.25                               | 1.53                               | 1.27                                | 2.25                                         | 1.67                                 | 3.99                                    | 1.69                                    |

| <b>Nombre</b>                    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Neusa (Hidrologia Antigua) | 1978       | 1.01                               | 1.2                                  | 0.86                               | 3.42                               | 1.8                               | 2.04                               | 1.27                               | 0.88                                | 1.01                                         | 1.89                                 | 0.95                                    | 0.82                                    |
| Serie Neusa (Hidrologia Antigua) | 1979       | 0.45                               | 0.48                                 | 1.21                               | 2.7                                | 3.18                              | 3.91                               | 1.95                               | 2.25                                | 1.98                                         | 6.12                                 | 5.92                                    | 2.62                                    |
| Serie Neusa (Hidrologia Antigua) | 1980       | 1.65                               | 1.95                                 | 1.23                               | 1.39                               | 1.32                              | 1.9                                | 1.13                               | 0.72                                | 0.69                                         | 2.21                                 | 1.31                                    | 0.46                                    |
| Serie Neusa (Hidrologia Antigua) | 1981       | 0.5                                | 0.61                                 | 1.4                                | 2.75                               | 6.57                              | 2.35                               | 1.11                               | 1.03                                | 1.24                                         | 1.97                                 | 3.28                                    | 1.85                                    |
| Serie Neusa (Hidrologia Antigua) | 1982       | 1.58                               | 2.54                                 | 1.88                               | 4.06                               | 4.33                              | 1.89                               | 1.44                               | 1.49                                | 1.66                                         | 2.96                                 | 2.28                                    | 1.76                                    |
| Serie Neusa (Hidrologia Antigua) | 1983       | 1.19                               | 1.2                                  | 1.23                               | 2.99                               | 1.82                              | 0.91                               | 1.4                                | 1.11                                | 0.95                                         | 1.26                                 | 1.26                                    | 1.81                                    |
| Serie Neusa (Hidrologia Antigua) | 1984       | 1.25                               | 1.32                                 | 1.11                               | 1.6                                | 2.08                              | 1.5                                | 0.76                               | 1.15                                | 1.63                                         | 2.02                                 | 2.16                                    | 0.87                                    |

| <b>Nombre</b>                    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Neusa (Hidrologia Antigua) | 1985       | 0.64                               | 0.51                                 | 1.08                               | 1.13                               | 1.68                              | 1.09                               | 1.29                               | 0.84                                | 1.96                                         | 3.14                                 | 3                                       | 0.99                                    |
| Serie Neusa (Hidrologia Antigua) | 1986       | 0.86                               | 0.93                                 | 0.97                               | 0.8                                | 0.96                              | 2.71                               | 2.36                               | 1.72                                | 1.62                                         | 5.8                                  | 3.44                                    | 1.17                                    |
| Serie Neusa (Hidrologia Antigua) | 1987       | 1.07                               | 1.14                                 | 2.24                               | 1.2                                | 1.97                              | 1.05                               | 1.18                               | 0.97                                | 1.32                                         | 3.62                                 | 1.89                                    | 1.68                                    |
| Serie Neusa (Hidrologia Antigua) | 1988       | 0.7                                | 0.67                                 | 0.77                               | 1.06                               | 0.62                              | 1.45                               | 1.38                               | 1.11                                | 1.41                                         | 2.78                                 | 3.71                                    | 2.29                                    |
| Serie Neusa (Hidrologia Antigua) | 1989       | 1.08                               | 0.71                                 | 2                                  | 0.89                               | 3.12                              | 1.77                               | 2.15                               | 1.29                                | 2.39                                         | 2.09                                 | 1.13                                    | 0.73                                    |
| Serie Neusa (Hidrologia Antigua) | 1990       | 0.28                               | 1.31                                 | 1.61                               | 2.53                               | 4.21                              | 1.61                               | 1.2                                | 1.21                                | 1.03                                         | 2.82                                 | 2.22                                    | 3.22                                    |
| Serie Neusa (Hidrologia Antigua) | 1991       | 0.8                                | 0.76                                 | 1.55                               | 0.92                               | 1.25                              | 0.4                                | 1.2                                | 1.94                                | 1.19                                         | 0.65                                 | 3.44                                    | 1.23                                    |

| <b>Nombre</b>                    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Neusa (Hidrologia Antigua) | 1992       | 0.69                               | 0.83                                 | 0.44                               | 0.62                               | 0.35                              | 0.36                               | 0.73                               | 0.63                                | 0.28                                         | 0.12                                 | 0.86                                    | 1.17                                    |
| Serie Neusa (Hidrologia Antigua) | 1993       | 0.27                               | 0.15                                 | 0.38                               | 0.74                               | 3.17                              | 1.71                               | 1.4                                | 1                                   | 1.21                                         | 1.1                                  | 2.44                                    | 0.92                                    |
| Serie Neusa (Hidrologia Antigua) | 1994       | 1.15                               | 1.01                                 | 0.87                               | 1.91                               | 2.3                               | 1.15                               | 2.32                               | 0.95                                | 1.11                                         | 2.47                                 | 2.87                                    | 0.67                                    |
| Serie Neusa (Hidrologia Antigua) | 1995       | 0.45                               | 0.66                                 | 1.08                               | 1.15                               | 0.91                              | 0.56                               | 0.49                               | 2.02                                | 1.02                                         | 1.19                                 | 1.54                                    | 1.49                                    |
| Serie Neusa (Hidrologia Antigua) | 1996       | 0.68                               | 0.58                                 | 2.95                               | 1.33                               | 1.29                              | 1.24                               | 2.49                               | 1.48                                | 1.1                                          | 2.69                                 | 1.27                                    | 1.61                                    |
| Serie Neusa (Hidrologia Antigua) | 1997       | 1.85                               | 1.3                                  | 1.14                               | 1.85                               | 1.6                               | 2.09                               | 1.83                               | 1.23                                | 0.66                                         | 2.37                                 | 0.72                                    | 0.35                                    |
| Serie Neusa (Hidrologia Antigua) | 1998       | 1.13                               | 1.12                                 | 1.21                               | 2.09                               | 2.47                              | 1.95                               | 1.64                               | 1.34                                | 1.63                                         | 2.56                                 | 2.99                                    | 1.71                                    |

| <b>Nombre</b>                    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Neusa (Hidrologia Antigua) | 1999       | 0.57                               | 1.37                                 | 1.56                               | 1.88                               | 0.61                              | 0.5                                | 0.39                               | 0.65                                | 2.9                                          | 5.48                                 | 3.12                                    | 2.41                                    |
| Serie Neusa (Hidrologia Antigua) | 2000       | 1.31                               | 1.22                                 | 1.71                               | 1.25                               | 0.7                               | 0.94                               | 0.9                                | 0.97                                | 1.91                                         | 1.28                                 | 1.69                                    | 0.68                                    |
| Serie Neusa (Hidrologia Antigua) | 2001       | 0.36                               | 0.35                                 | 0.82                               | 0.43                               | 0.71                              | 0.41                               | 0.36                               | 0.84                                | 1.25                                         | 0.49                                 | 0.62                                    | 0.44                                    |
| Serie Neusa (Hidrologia Antigua) | 2002       | 0.24                               | 0.35                                 | 0.81                               | 1.89                               | 2.42                              | 3.74                               | 1.71                               | 1.92                                | 1.25                                         | 1.15                                 | 1.3                                     | 0.68                                    |
| Serie Neusa (Hidrologia Antigua) | 2003       | 0.78                               | 0.59                                 | 0.73                               | 2.42                               | 1.49                              | 0.71                               | 0.7                                | 1.04                                | 0.86                                         | 2.06                                 | 2.71                                    | 2.44                                    |
| Serie Neusa (Hidrologia Antigua) | 2004       | 0.68                               | 0.72                                 | 0.81                               | 1.13                               | 2.91                              | 2.21                               | 1.39                               | 1                                   | 1.45                                         | 1.98                                 | 4.38                                    | 1.01                                    |
| Serie Neusa (Hidrologia Antigua) | 2005       | 0.71                               | 0.95                                 | 0.84                               | 0.85                               | 2.08                              | 0.79                               | 0.73                               | 1                                   | 1.16                                         | 2.68                                 | 2.77                                    | 1.46                                    |

| <b>Nombre</b>                    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Neusa (Hidrologia Antigua) | 2006       | 0.72                               | 0.39                                 | 1.65                               | 4.26                               | 5.56                              | 3.52                               | 2.12                               | 1.39                                | 0.97                                         | 1.68                                 | 3.89                                    | 1.48                                    |
| Serie Neusa (Hidrologia Antigua) | 2007       | 0.8                                | 0.5                                  | 0.82                               | 1.28                               | 1                                 | 1.34                               | 1.18                               | 1.97                                | 2.01                                         | 3.75                                 | 2.13                                    | 1.48                                    |
| Serie Neusa (Hidrologia Antigua) | 2008       | 1.08                               | 1.4                                  | 0.45                               | 2.43                               | 3.11                              | 1.93                               | 2.08                               | 1.62                                | 2.3                                          | 2.39                                 | 4.34                                    | 3.03                                    |
| Serie Neusa (Hidrologia Antigua) | 2009       | 1.68                               | 1.77                                 | 1.75                               | 2.58                               | 1.77                              | 1.26                               | 1.58                               | 1.21                                | 1.07                                         | 1.67                                 | 1.28                                    | 0.41                                    |
| Serie Neusa (Hidrologia Antigua) | 2010       | 0.19                               | 0.48                                 | 0.43                               | 2.56                               | 1.99                              | 2.34                               | 3.49                               | 2.53                                | 1.91                                         | 1.54                                 | 3.61                                    | 3.46                                    |
| Serie Neusa (Hidrologia Antigua) | 2011       | 1.03                               | 1.23                                 | 4.96                               | 8.92                               | 6.29                              | 3.21                               | 1.67                               | 1.1                                 | 0.93                                         | 3.55                                 | 6.04                                    | 4.18                                    |
| Serie Neusa (Hidrologia Antigua) | 2012       | 1.09                               | 0.54                                 | 0.94                               | 6.39                               | 1.63                              | 1.14                               | 1.3                                | 2.59                                | 0.67                                         | 2.11                                 | 1.31                                    | 0.71                                    |

| <b>Nombre</b>                               | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua)  | 2013       | 0.35                               | 0.79                                 | 0.93                               | 1                                  | 2.97                              | 0.5                                | 0.45                               | 0.52                                | 0.63                                         | 0.52                                 | 1.45                                    | 1.44                                    |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua)  | 2014       | 0.45                               | 0.36                                 | 1.43                               | 0.8                                | 1.27                              | 1.31                               | 1.43                               | 1.17                                | 0.87                                         | 1.04                                 | 2.5                                     | 1.35                                    |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua)  | 2015       | 0.62                               | 0.64                                 | 0.82                               | 0.9                                | 0.58                              | 1.63                               | 1.54                               | 1.79                                | 0.77                                         | 0.52                                 | 0.74                                    | 0.47                                    |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua)  | 2016       | 0.32                               | 0.35                                 | 0.62                               | 1.65                               | 1.77                              | 1.31                               | 1.34                               | 0.94                                | 1.39                                         | 1.28                                 | 3.22                                    | 1.64                                    |
| Serie Neusa<br>(Hidrolog<br>ia<br>Antigua)  | 2017       | 0.81                               | 0.12                                 | 1.24                               | 1.86                               | 2.42                              | 2.28                               | 1.42                               | 0.94                                | 0.71                                         | 1.09                                 | 2.63                                    | 1.36                                    |
| Serie Checua<br>(Hidrolog<br>ia<br>Antigua) | 1965       | 0.64                               | 0.59                                 | 0.35                               | 4.09                               | 6.16                              | 2.14                               | 0                                  | 1.04                                | 4.28                                         | 5.2                                  | 9.33                                    | 3.02                                    |
| Serie Checua<br>(Hidrolog<br>ia<br>Antigua) | 1966       | 0                                  | 0.3                                  | 0                                  | 1.2                                | 1.66                              | 2.29                               | 0.4                                | 0.06                                | 3.64                                         | 4.49                                 | 3.39                                    | 6.25                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1967       | 0.65                               | 0.94                                 | 0                                  | 1.59                               | 3.54                              | 2.6                                | 0.39                               | 0.02                                | 1.23                                         | 2.12                                 | 7                                       | 1.62                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1968       | 0                                  | 0                                    | 0                                  | 2.88                               | 2.88                              | 4.2                                | 0.79                               | 0.69                                | 0                                            | 2.11                                 | 4.84                                    | 2.1                                     |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1969       | 0                                  | 0.19                                 | 0                                  | 2.54                               | 3.23                              | 2.19                               | 0.83                               | 0.66                                | 0.83                                         | 5.68                                 | 4.56                                    | 1.35                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1970       | 0.17                               | 0.46                                 | 0.08                               | 2.08                               | 2.74                              | 1.68                               | 0.47                               | 0.68                                | 1.74                                         | 4.81                                 | 5.88                                    | 1.33                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1971       | 0                                  | 0.28                                 | 0                                  | 4.06                               | 4.13                              | 1.47                               | 0.16                               | 0                                   | 1.55                                         | 1.95                                 | 3.79                                    | 1.18                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1972       | 1.86                               | 0.81                                 | 0                                  | 2.63                               | 6.12                              | 3.94                               | 0.16                               | 0.91                                | 0.61                                         | 1.95                                 | 3.52                                    | 1.18                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1973       | 0                                  | 0                                    | 0                                  | 0.71                               | 1.73                              | 1.71                               | 0.59                               | 0.57                                | 2.53                                         | 3.12                                 | 4.4                                     | 2.31                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1974       | 0.05                               | 1.48                                 | 0.83                               | 3.18                               | 4.36                              | 1.95                               | 0.79                               | 0.49                                | 2.65                                         | 3.86                                 | 6.16                                    | 1.67                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1975       | 0                                  | 1.27                                 | 1.08                               | 3.5                                | 3.6                               | 2.18                               | 1.21                               | 0.99                                | 2.49                                         | 3.47                                 | 5.46                                    | 4.67                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1976       | 0.09                               | 0                                    | 0.04                               | 3.29                               | 3.29                              | 2.56                               | 2.22                               | 0.55                                | 2.02                                         | 3.74                                 | 5.29                                    | 2.08                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1977       | 0.36                               | 0.28                                 | 0.06                               | 2.75                               | 2.78                              | 2.86                               | 1.16                               | 1.92                                | 3.25                                         | 4.43                                 | 7.41                                    | 1.62                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1978       | 0.77                               | 0.31                                 | 1.36                               | 4.86                               | 4.36                              | 6                                  | 3.39                               | 3.05                                | 3.77                                         | 4.64                                 | 4.77                                    | 2.46                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1979       | 0.06                               | 0.68                                 | 3.24                               | 5.9                                | 9.67                              | 11.19                              | 7.34                               | 7.27                                | 6.75                                         | 15.57                                | 17.06                                   | 5.26                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1980       | 1.53                               | 1.37                                 | 0.87                               | 2.91                               | 3.66                              | 4.17                               | 3.4                                | 2.71                                | 2.19                                         | 6.3                                  | 3.44                                    | 1.13                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1981       | 0.19                               | 0.26                                 | 0.57                               | 4.18                               | 11.46                             | 10.73                              | 7.78                               | 3.94                                | 3.85                                         | 6.86                                 | 8.44                                    | 2.01                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1982       | 2.45                               | 2.17                                 | 3.15                               | 10.18                              | 9.74                              | 3.95                               | 3.86                               | 1.82                                | 2.72                                         | 6.21                                 | 4.67                                    | 3.21                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1983       | 0.66                               | 0.1                                  | 0.74                               | 3.92                               | 0.65                              | 0.52                               | 1.15                               | 2.14                                | 0                                            | 0.65                                 | 1.35                                    | 0.13                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1984       | 0                                  | 0.66                                 | 0.41                               | 1.62                               | 2.8                               | 5.42                               | 3.23                               | 4.56                                | 7.68                                         | 3.12                                 | 4.31                                    | 1.7                                     |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1985       | 1.07                               | 0                                    | 0                                  | 0.39                               | 3.2                               | 4.9                                | 3.5                                | 2.99                                | 3.93                                         | 3.71                                 | 9.99                                    | 4.67                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1986       | 1.22                               | 9.91                                 | 8.58                               | 0                                  | 6.11                              | 6.17                               | 2.88                               | 0                                   | 8.12                                         | 12.36                                | 0.98                                    | 0                                       |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1987       | 0                                  | 1.42                                 | 2.56                               | 5.36                               | 2.55                              | 0.65                               | 1.06                               | 0                                   | 0                                            | 1.6                                  | 1.35                                    | 2.46                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1988       | 10.05                              | 3.96                                 | 5.19                               | 6.88                               | 0                                 | 0                                  | 0                                  | 0.66                                | 3.95                                         | 5.58                                 | 5.41                                    | 2.47                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1989       | 0                                  | 0.54                                 | 1.74                               | 0.59                               | 3.21                              | 1.26                               | 1.25                               | 0.06                                | 0.69                                         | 1.69                                 | 1.44                                    | 1.48                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1990       | 0                                  | 0.04                                 | 0                                  | 0                                  | 0.36                              | 0                                  | 0                                  | 0                                   | 0                                            | 0.06                                 | 0.07                                    | 0.07                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1991       | 0                                  | 0                                    | 0.39                               | 0                                  | 0                                 | 0                                  | 0.65                               | 0.69                                | 0.57                                         | 0.81                                 | 3.98                                    | 2.93                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1992       | 2.14                               | 5.58                                 | 0                                  | 0.59                               | 0.12                              | 0                                  | 0                                  | 0.3                                 | 0                                            | 0.02                                 | 1.05                                    | 1.47                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1993       | 0.31                               | 0                                    | 0                                  | 0.16                               | 1.56                              | 0                                  | 0                                  | 0.94                                | 0                                            | 0                                    | 0.1                                     | 0                                       |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1994       | 0                                  | 0                                    | 0.06                               | 0.25                               | 1.11                              | 0.07                               | 0                                  | 0                                   | 0.06                                         | 2.02                                 | 1.79                                    | 0.21                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1995       | 0                                  | 0                                    | 0.45                               | 0.56                               | 0.15                              | 0.4                                | 0.31                               | 1.66                                | 0.32                                         | 0.56                                 | 0.36                                    | 1.52                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1996       | 0.01                               | 1.08                                 | 2.52                               | 1.35                               | 2.03                              | 2.04                               | 1.9                                | 0                                   | 0                                            | 2.47                                 | 0                                       | 0                                       |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1997       | 1.83                               | 0                                    | 0                                  | 0                                  | 0                                 | 0.38                               | 2.78                               | 1.51                                | 0.51                                         | 1.2                                  | 1.49                                    | 0.18                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1998       | 0.18                               | 0                                    | 0                                  | 0.98                               | 4.57                              | 2.3                                | 2.67                               | 2.43                                | 0                                            | 3.76                                 | 1.34                                    | 2.09                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 1999       | 0.53                               | 0                                    | 1.28                               | 1.24                               | 0.61                              | 0.42                               | 0.72                               | 0.81                                | 2.4                                          | 6.94                                 | 5.23                                    | 0.67                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2000       | 0                                  | 0                                    | 1.59                               | 1.14                               | 0.33                              | 0.19                               | 0.61                               | 0                                   | 3.4                                          | 3.33                                 | 3.83                                    | 0.31                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2001       | 0.42                               | 0.63                                 | 1.07                               | 0.26                               | 0.55                              | 0.54                               | 1.6                                | 2.4                                 | 3.22                                         | 1.55                                 | 1.35                                    | 1.34                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2002       | 0.34                               | 1.45                                 | 1.59                               | 3.18                               | 3.83                              | 7.45                               | 4.87                               | 4.12                                | 4.4                                          | 3.65                                 | 2.15                                    | 1.45                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2003       | 0.22                               | 0.87                                 | 1.63                               | 2.94                               | 2.22                              | 1.82                               | 2.31                               | 1.75                                | 1.26                                         | 2.69                                 | 2.92                                    | 1.95                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2004       | 0.61                               | 0.1                                  | 0.08                               | 1.11                               | 4.04                              | 3.65                               | 2.13                               | 3.73                                | 3.7                                          | 4.25                                 | 5.64                                    | 1.3                                     |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2005       | 0.1                                | 0.18                                 | 0.02                               | 0.68                               | 3.72                              | 2.16                               | 1.78                               | 2.09                                | 2.88                                         | 6.9                                  | 6.58                                    | 2.02                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2006       | 0.32                               | 0                                    | 0.2                                | 2.25                               | 10.37                             | 6.09                               | 3.29                               | 0                                   | 0                                            | 0.81                                 | 1.66                                    | 0.32                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2007       | 0                                  | 0.64                                 | 0.07                               | 4.08                               | 2.11                              | 2.53                               | 2.78                               | 1.57                                | 5.1                                          | 0.65                                 | 0.24                                    | 0.17                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2008       | 0                                  | 0                                    | 0                                  | 0                                  | 0.59                              | 0.67                               | 0.82                               | 0.94                                | 0.53                                         | 1.09                                 | 2.7                                     | 1.98                                    |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2009       | 0                                  | 0                                    | 0                                  | 0.26                               | 0.15                              | 0.08                               | 0.5                                | 0.56                                | 0.37                                         | 0.39                                 | 0.44                                    | 0                                       |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2010       | 0                                  | 0                                    | 0                                  | 2.06                               | 1.7                               | 1.93                               | 4.04                               | 0.42                                | 0                                            | 1.34                                 | 5.52                                    | 4.33                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2011       | 0                                  | 0.17                                 | 2.92                               | 3.7                                | 3.93                              | 2.44                               | 0.25                               | 0.1                                 | 0.38                                         | 3.51                                 | 5.74                                    | 2.57                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2012       | 0.07                               | 0.05                                 | 0.08                               | 4.86                               | 2.07                              | 0.16                               | 0.46                               | 0.52                                | 0.21                                         | 2.22                                 | 0.3                                     | 0                                       |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2013       | 0                                  | 0                                    | 0.22                               | 0.51                               | 2.49                              | 1.47                               | 0.27                               | 0.45                                | 0.11                                         | 0.44                                 | 1.7                                     | 1.53                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2014       | 0.23                               | 0                                    | 1.01                               | 0.11                               | 0.48                              | 1.29                               | 2.57                               | 0.78                                | 0.28                                         | 0.7                                  | 0.86                                    | 0.58                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2015       | 0                                  | 0.12                                 | 0.12                               | 0.02                               | 0.02                              | 0.59                               | 1.89                               | 0.84                                | 0.05                                         | 0                                    | 0                                       | 0                                       |

| <b>Nombre</b>                                  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2016       | 0                                  | 0                                    | 0.51                               | 0.84                               | 0.78                              | 0.22                               | 1.54                               | 0.08                                | 0.04                                         | 0.03                                 | 1.27                                    | 0.44                                    |
| Serie<br>Checua<br>(Hidrolog<br>ia<br>Antigua) | 2017       | 0.19                               | 0.22                                 | 2.75                               | 1.29                               | 1.62                              | 1.51                               | 1.54                               | 0.58                                | 0.24                                         | 0.17                                 | 0.5                                     | 0.16                                    |
| Serie<br>Chuza<br>(Hidrolog<br>ia<br>Antigua)  | 1967       | 5.48                               | 2.22                                 | 7.42                               | 13                                 | 18.9                              | 35.97                              | 29.26                              | 31.27                               | 11.06                                        | 16.99                                | 10.7                                    | 3.97                                    |
| Serie<br>Chuza<br>(Hidrolog<br>ia<br>Antigua)  | 1968       | 1.63                               | 1.58                                 | 1.84                               | 23.18                              | 8.08                              | 28.93                              | 40.43                              | 17.56                               | 13.47                                        | 12.55                                | 8.91                                    | 4.56                                    |
| Serie<br>Chuza<br>(Hidrolog<br>ia<br>Antigua)  | 1969       | 3.65                               | 3.84                                 | 3.89                               | 14.57                              | 13.88                             | 15.64                              | 15.42                              | 17.41                               | 9.77                                         | 14.96                                | 11.59                                   | 6.3                                     |
| Serie<br>Chuza<br>(Hidrolog<br>ia<br>Antigua)  | 1970       | 8.24                               | 3.48                                 | 11.01                              | 17.66                              | 18.05                             | 31.29                              | 21.75                              | 20.5                                | 17.12                                        | 17.7                                 | 13.33                                   | 6.2                                     |
| Serie<br>Chuza<br>(Hidrolog<br>ia<br>Antigua)  | 1971       | 3.37                               | 4.76                                 | 12.86                              | 16.1                               | 19.56                             | 25.67                              | 30.6                               | 20.07                               | 15.55                                        | 11.39                                | 9.47                                    | 5.44                                    |

| <b>Nombre</b>                    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Chuza (Hidrologia Antigua) | 1972       | 11.9                               | 5.46                                 | 8.37                               | 16.91                              | 23.43                             | 26.63                              | 27.61                              | 18.88                               | 15.23                                        | 8.93                                 | 8.77                                    | 4.25                                    |
| Serie Chuza (Hidrologia Antigua) | 1973       | 2.18                               | 1.7                                  | 2.15                               | 5.31                               | 20.82                             | 26.16                              | 21.14                              | 19.62                               | 23.71                                        | 12.91                                | 14.13                                   | 9.75                                    |
| Serie Chuza (Hidrologia Antigua) | 1974       | 3.89                               | 3.51                                 | 4.75                               | 13.01                              | 17.89                             | 17.68                              | 23                                 | 18.25                               | 12.33                                        | 9.29                                 | 8.54                                    | 2.23                                    |
| Serie Chuza (Hidrologia Antigua) | 1975       | 1.74                               | 1.6                                  | 8.35                               | 7.81                               | 22.85                             | 31.19                              | 14.07                              | 16.27                               | 11.95                                        | 13.92                                | 8.43                                    | 9.93                                    |
| Serie Chuza (Hidrologia Antigua) | 1976       | 4.91                               | 2.39                                 | 5.65                               | 18.17                              | 29.72                             | 31.12                              | 33.8                               | 19.14                               | 13.59                                        | 12.63                                | 9.52                                    | 5.74                                    |
| Serie Chuza (Hidrologia Antigua) | 1977       | 1.63                               | 3.47                                 | 4.61                               | 7.57                               | 14.14                             | 20.79                              | 23.97                              | 20.1                                | 16.32                                        | 14.31                                | 13.09                                   | 5.99                                    |
| Serie Chuza (Hidrologia Antigua) | 1978       | 1.57                               | 3.22                                 | 3.43                               | 13.88                              | 16.26                             | 25.75                              | 17.64                              | 15.03                               | 11.63                                        | 12.65                                | 4.12                                    | 3.64                                    |

| <b>Nombre</b>                    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Chuza (Hidrologia Antigua) | 1979       | 1.44                               | 1.1                                  | 3.97                               | 11.81                              | 10.11                             | 20.19                              | 13.73                              | 12.63                               | 8.56                                         | 16.24                                | 12.82                                   | 7.3                                     |
| Serie Chuza (Hidrologia Antigua) | 1980       | 3.18                               | 2.05                                 | 4.36                               | 12.17                              | 9.1                               | 25.62                              | 17.25                              | 14.53                               | 11.82                                        | 13.79                                | 5.83                                    | 2.78                                    |
| Serie Chuza (Hidrologia Antigua) | 1981       | 1.49                               | 4.07                                 | 4.85                               | 12.83                              | 22.09                             | 20.54                              | 16.36                              | 11.49                               | 11.75                                        | 14.23                                | 6.97                                    | 3.56                                    |
| Serie Chuza (Hidrologia Antigua) | 1982       | 1.73                               | 2.89                                 | 3.72                               | 17.25                              | 16.65                             | 12.95                              | 31.4                               | 20.78                               | 13.36                                        | 16.1                                 | 8.55                                    | 3.33                                    |
| Serie Chuza (Hidrologia Antigua) | 1983       | 4.74                               | 4.89                                 | 13.82                              | 15.62                              | 13.08                             | 25.64                              | 29.03                              | 29.42                               | 23.22                                        | 12.16                                | 5.18                                    | 5.42                                    |
| Serie Chuza (Hidrologia Antigua) | 1984       | 1.61                               | 10.97                                | 2.36                               | 5.22                               | 16.31                             | 23.82                              | 20.89                              | 15.9                                | 17.68                                        | 7.73                                 | 9.74                                    | 2.88                                    |
| Serie Chuza (Hidrologia Antigua) | 1985       | 2.36                               | 1.21                                 | 1.56                               | 5.74                               | 11.82                             | 24.29                              | 19.71                              | 23.99                               | 18.46                                        | 20.06                                | 14.53                                   | 5.96                                    |

| <b>Nombre</b>                    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Chuza (Hidrologia Antigua) | 1986       | 1.27                               | 6.33                                 | 6.77                               | 8.76                               | 12.31                             | 30.54                              | 30.54                              | 16.71                               | 7.45                                         | 13.36                                | 7.12                                    | 3.93                                    |
| Serie Chuza (Hidrologia Antigua) | 1987       | 2.78                               | 4.09                                 | 4.23                               | 10.49                              | 13.09                             | 12.91                              | 28.47                              | 18.99                               | 9.48                                         | 9.88                                 | 7.33                                    | 6.31                                    |
| Serie Chuza (Hidrologia Antigua) | 1988       | 1.56                               | 2.44                                 | 2.25                               | 7.58                               | 13.8                              | 19.52                              | 27.55                              | 12.48                               | 12.37                                        | 8.04                                 | 14.42                                   | 7.26                                    |
| Serie Chuza (Hidrologia Antigua) | 1989       | 3.56                               | 4.81                                 | 7.09                               | 10.81                              | 20.22                             | 28.44                              | 23.81                              | 13.56                               | 9.39                                         | 14.38                                | 8.38                                    | 4.82                                    |
| Serie Chuza (Hidrologia Antigua) | 1990       | 5.44                               | 4.49                                 | 12.94                              | 12.36                              | 27.01                             | 22.71                              | 19.17                              | 15.12                               | 9.99                                         | 8.15                                 | 7.56                                    | 7.08                                    |
| Serie Chuza (Hidrologia Antigua) | 1991       | 2.14                               | 3.55                                 | 4.28                               | 8.66                               | 14.51                             | 19.7                               | 38.2                               | 24.49                               | 9.15                                         | 7.39                                 | 10.73                                   | 1.9                                     |
| Serie Chuza (Hidrologia Antigua) | 1992       | 1.21                               | 1.45                                 | 2.58                               | 8.7                                | 8.94                              | 15.28                              | 29.91                              | 18.53                               | 11.89                                        | 7.67                                 | 9.3                                     | 3.61                                    |

| <b>Nombre</b>                    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Chuza (Hidrologia Antigua) | 1993       | 3.25                               | 4                                    | 7.9                                | 18.87                              | 16.02                             | 24.11                              | 27.88                              | 16.64                               | 10.15                                        | 11.49                                | 10.47                                   | 4.35                                    |
| Serie Chuza (Hidrologia Antigua) | 1994       | 1.78                               | 2.12                                 | 5.09                               | 12.45                              | 24.23                             | 28.52                              | 28.75                              | 19.58                               | 14.53                                        | 10.68                                | 8.22                                    | 5.42                                    |
| Serie Chuza (Hidrologia Antigua) | 1995       | 2.4                                | 1.02                                 | 5.45                               | 8.58                               | 16.01                             | 19.02                              | 16.91                              | 9.18                                | 9.14                                         | 8.18                                 | 6.29                                    | 2.71                                    |
| Serie Chuza (Hidrologia Antigua) | 1996       | 2.07                               | 10.52                                | 6.58                               | 11.83                              | 23.56                             | 18.75                              | 27.26                              | 15.13                               | 8.14                                         | 10.65                                | 6.86                                    | 7.19                                    |
| Serie Chuza (Hidrologia Antigua) | 1997       | 4.15                               | 9.66                                 | 4.01                               | 11.71                              | 19.54                             | 26.7                               | 23.98                              | 13.36                               | 6.93                                         | 5.68                                 | 3.78                                    | 1.48                                    |
| Serie Chuza (Hidrologia Antigua) | 1998       | 0.66                               | 0.51                                 | 2.26                               | 9.47                               | 22.55                             | 28.95                              | 30.97                              | 17.7                                | 6.37                                         | 9.07                                 | 6.79                                    | 8.08                                    |
| Serie Chuza (Hidrologia Antigua) | 1999       | 5.21                               | 8.23                                 | 6.7                                | 20.55                              | 12.76                             | 21.73                              | 10.05                              | 9.05                                | 11.16                                        | 13.34                                | 5.9                                     | 3.81                                    |

| <b>Nombre</b>                    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Chuza (Hidrologia Antigua) | 2000       | 4.5                                | 5.15                                 | 5.25                               | 10.7                               | 26.85                             | 20.64                              | 15.32                              | 13.69                               | 10.04                                        | 9.02                                 | 9.98                                    | 6.55                                    |
| Serie Chuza (Hidrologia Antigua) | 2001       | 2.22                               | 3.36                                 | 4.11                               | 11.78                              | 19.16                             | 22.09                              | 17.82                              | 19.46                               | 19.54                                        | 5.83                                 | 10.17                                   | 3.63                                    |
| Serie Chuza (Hidrologia Antigua) | 2002       | 2.32                               | 1.4                                  | 10.37                              | 15.57                              | 22.69                             | 17.16                              | 31.65                              | 31.25                               | 33.6                                         | 23.63                                | 7.56                                    | 2.82                                    |
| Serie Chuza (Hidrologia Antigua) | 2003       | 0.8                                | 1.34                                 | 7.79                               | 13.39                              | 23.76                             | 15.44                              | 38.17                              | 38.45                               | 33.96                                        | 11.13                                | 13.9                                    | 6.19                                    |
| Serie Chuza (Hidrologia Antigua) | 2004       | 1.74                               | 1.67                                 | 8.51                               | 7.92                               | 15.64                             | 33.54                              | 17.85                              | 16.11                               | 5.24                                         | 8.12                                 | 8.02                                    | 3.27                                    |
| Serie Chuza (Hidrologia Antigua) | 2005       | 1.97                               | 2.91                                 | 1.64                               | 10.93                              | 16.42                             | 15.65                              | 12.36                              | 13.88                               | 12.96                                        | 9.84                                 | 11.41                                   | 1.96                                    |
| Serie Chuza (Hidrologia Antigua) | 2006       | 2.15                               | 1.09                                 | 7.76                               | 16.45                              | 18.73                             | 20.23                              | 21.49                              | 12.38                               | 6.36                                         | 10.73                                | 9.22                                    | 2.41                                    |

| <b>Nombre</b>                    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Chuza (Hidrologia Antigua) | 2007       | 0.81                               | 0.48                                 | 3.17                               | 12.33                              | 14.96                             | 31.55                              | 13.85                              | 14.51                               | 9.52                                         | 10.01                                | 8.07                                    | 8.6                                     |
| Serie Chuza (Hidrologia Antigua) | 2008       | 2.28                               | 1.79                                 | 2.95                               | 2.95                               | 17.65                             | 24.45                              | 23.69                              | 10.54                               | 9.16                                         | 4.57                                 | 10.04                                   | 2.28                                    |
| Serie Chuza (Hidrologia Antigua) | 2009       | 2.95                               | 5.4                                  | 5.84                               | 13.01                              | 8.79                              | 18.9                               | 25.22                              | 9.05                                | 4.95                                         | 7.1                                  | 5.4                                     | 0.7                                     |
| Serie Chuza (Hidrologia Antigua) | 2010       | 0.3                                | 2.19                                 | 4.23                               | 16.83                              | 18.08                             | 19.53                              | 17.32                              | 8.78                                | 5.75                                         | 6.9                                  | 12.73                                   | 5.04                                    |
| Serie Chuza (Hidrologia Antigua) | 2011       | 3.05                               | 2.6                                  | 10.14                              | 16.34                              | 15.69                             | 8.14                               | 12.46                              | 5.87                                | 10.58                                        | 13.81                                | 10.81                                   | 6.52                                    |
| Serie Chuza (Hidrologia Antigua) | 2012       | 1.78                               | 4.52                                 | 11.52                              | 20.53                              | 19.06                             | 17.07                              | 23.01                              | 15.21                               | 9.4                                          | 8.22                                 | 4.01                                    | 6.78                                    |
| Serie Chuza (Hidrologia Antigua) | 2013       | 1.11                               | 2.43                                 | 8.23                               | 11.23                              | 20.63                             | 13.07                              | 19.44                              | 14.62                               | 8.75                                         | 6.42                                 | 11.04                                   | 5.67                                    |

| <b>Nombre</b>                                      | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Chuza<br>(Hidrolog<br>ia<br>Antigua)         | 2014       | 1.24                               | 0.7                                  | 4.37                               | 12.03                              | 8.45                              | 36.66                              | 29.28                              | 10.14                               | 9.84                                         | 9.17                                 | 6.91                                    | 4.91                                    |
| Serie Chuza<br>(Hidrolog<br>ia<br>Antigua)         | 2015       | 2.44                               | 5.38                                 | 3.67                               | 10.16                              | 14.55                             | 40.09                              | 20.71                              | 9.77                                | 5.55                                         | 3.74                                 | 8.48                                    | 4.5                                     |
| Serie Chuza<br>(Hidrolog<br>ia<br>Antigua)         | 2016       | 1.08                               | 0.56                                 | 1.93                               | 13.9                               | 21.23                             | 17.72                              | 24.69                              | 17.88                               | 14.8                                         | 6.71                                 | 11.89                                   | 4.55                                    |
| Serie Chuza<br>(Hidrolog<br>ia<br>Antigua)         | 2017       | 5.45                               | 3.81                                 | 13.46                              | 8.23                               | 18.54                             | 15.15                              | 10.97                              | 6.01                                | 5.08                                         | 7.34                                 | 6.51                                    | 3.3                                     |
| Serie Rio<br>Blanco<br>(Hidrolog<br>ia<br>Antigua) | 1972       | 1.35                               | 0.88                                 | 1.25                               | 2.09                               | 3.22                              | 2.74                               | 3.32                               | 2.17                                | 2.87                                         | 1.8                                  | 1.67                                    | 1.04                                    |
| Serie Rio<br>Blanco<br>(Hidrolog<br>ia<br>Antigua) | 1973       | 0.45                               | 0.45                                 | 0.42                               | 0.45                               | 1.69                              | 2.62                               | 3.09                               | 2.02                                | 3.92                                         | 2.29                                 | 1.97                                    | 2.02                                    |
| Serie Rio<br>Blanco<br>(Hidrolog<br>ia<br>Antigua) | 1974       | 1.08                               | 1.11                                 | 1.65                               | 1.45                               | 4.11                              | 2.82                               | 3.84                               | 2.48                                | 2.78                                         | 2.5                                  | 2.47                                    | 0.87                                    |

| <b>Nombre</b>                            | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1975       | 0.44                               | 0.45                                 | 1.15                               | 1.28                               | 2.18                              | 3.97                               | 2.73                               | 3.52                                | 2.76                                         | 2.35                                 | 1.86                                    | 1.8                                     |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1976       | 0.64                               | 0.35                                 | 1.74                               | 2.78                               | 3.27                              | 3.48                               | 4.26                               | 2.21                                | 1.83                                         | 2.3                                  | 1.85                                    | 0.7                                     |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1977       | 0.43                               | 0.31                                 | 0.99                               | 1.19                               | 2.16                              | 2.6                                | 3.09                               | 2.07                                | 1.72                                         | 2.21                                 | 2.65                                    | 1.7                                     |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1978       | 0.55                               | 0.43                                 | 1.23                               | 1.82                               | 2.11                              | 4.39                               | 2.98                               | 2.48                                | 1.91                                         | 1.83                                 | 1.25                                    | 0.62                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1979       | 0.24                               | 0.18                                 | 0.97                               | 1.99                               | 2.26                              | 3.2                                | 2.38                               | 2.32                                | 2.03                                         | 2.53                                 | 2.24                                    | 1.62                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1980       | 0.3                                | 0.25                                 | 0.24                               | 1.57                               | 1.68                              | 3.16                               | 2.07                               | 1.53                                | 1.31                                         | 1.27                                 | 0.57                                    | 0.2                                     |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1981       | 0.16                               | 0.14                                 | 0.15                               | 1.76                               | 3.08                              | 1.98                               | 2.25                               | 1.67                                | 1.8                                          | 1.85                                 | 1.2                                     | 0.44                                    |

| <b>Nombre</b>                            | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1982       | 0.29                               | 0.45                                 | 0.99                               | 2.35                               | 1.92                              | 1.48                               | 2.38                               | 1.78                                | 1.33                                         | 1.39                                 | 0.82                                    | 0.47                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1983       | 0.36                               | 0.56                                 | 0.68                               | 1.96                               | 1.44                              | 1.7                                | 2.8                                | 2.22                                | 1.28                                         | 1.17                                 | 0.68                                    | 0.67                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1984       | 0.95                               | 1.02                                 | 0.5                                | 0.62                               | 1.41                              | 4.52                               | 3.16                               | 3.41                                | 2.27                                         | 1.33                                 | 3.22                                    | 0.55                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1985       | 0.51                               | 0.41                                 | 0.39                               | 0.53                               | 1.61                              | 2.41                               | 2.97                               | 2.1                                 | 3.07                                         | 2.75                                 | 2.62                                    | 0.86                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1986       | 0.53                               | 1.32                                 | 1.36                               | 1.35                               | 2.3                               | 7.62                               | 6.87                               | 2.53                                | 2.32                                         | 2.75                                 | 2.86                                    | 0.72                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1987       | 0.48                               | 0.51                                 | 0.84                               | 1.46                               | 2.47                              | 2.77                               | 3.67                               | 3.91                                | 1.85                                         | 2.57                                 | 1.69                                    | 0.95                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1988       | 0.44                               | 0.38                                 | 0.67                               | 1.49                               | 2.15                              | 3.03                               | 3.96                               | 2.64                                | 2.34                                         | 1.91                                 | 2.47                                    | 1.56                                    |

| <b>Nombre</b>                            | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1989       | 0.94                               | 0.91                                 | 1.84                               | 1.23                               | 2.56                              | 2.52                               | 2.8                                | 1.56                                | 1.76                                         | 1.43                                 | 1.4                                     | 1.2                                     |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1990       | 0.56                               | 0.72                                 | 1.24                               | 1.16                               | 5.08                              | 3.32                               | 3.52                               | 3.52                                | 1.08                                         | 2                                    | 1.28                                    | 1.08                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1991       | 0.45                               | 0.63                                 | 1.01                               | 1.7                                | 2.27                              | 2.62                               | 4.3                                | 2.88                                | 2.53                                         | 1.84                                 | 1.63                                    | 1.57                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1992       | 0.85                               | 0.97                                 | 0.78                               | 1.39                               | 2.35                              | 2.93                               | 4.93                               | 2.57                                | 2.43                                         | 1.92                                 | 1.96                                    | 1.95                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1993       | 1.26                               | 1.26                                 | 0.59                               | 2.63                               | 2.77                              | 2.99                               | 3.15                               | 1.98                                | 1.69                                         | 1.53                                 | 1.58                                    | 1.28                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1994       | 0.63                               | 0.6                                  | 0.59                               | 0.64                               | 1.62                              | 2.31                               | 1.19                               | 0.27                                | 0                                            | 0.78                                 | 1.03                                    | 0.63                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1995       | 0.28                               | 0.16                                 | 0.44                               | 0.77                               | 1.36                              | 2.08                               | 2.48                               | 2.11                                | 0.82                                         | 0.97                                 | 0.6                                     | 0.27                                    |

| <b>Nombre</b>                            | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1996       | 0.27                               | 0.75                                 | 0.38                               | 0.38                               | 0.92                              | 1.15                               | 1.26                               | 1.39                                | 0.41                                         | 0.22                                 | 0.26                                    | 0.47                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1997       | 0.16                               | 0                                    | 0                                  | 0                                  | 3.75                              | 3.94                               | 7.46                               | 3.39                                | 0.88                                         | 0.39                                 | 0                                       | 0                                       |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1998       | 0                                  | 0                                    | 0                                  | 0                                  | 1.66                              | 1.8                                | 2.09                               | 0.21                                | 0                                            | 0.06                                 | 0                                       | 0.74                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 1999       | 0.41                               | 0                                    | 0.12                               | 3.18                               | 1.03                              | 0.13                               | 0                                  | 0                                   | 0                                            | 0                                    | 0                                       | 0.33                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 2000       | 0.08                               | 0.07                                 | 0.1                                | 0.54                               | 0.44                              | 0.18                               | 0.1                                | 0.1                                 | 0.02                                         | 0.32                                 | 0.48                                    | 0.51                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 2001       | 0                                  | 0.23                                 | 0.26                               | 0                                  | 0                                 | 0                                  | 0                                  | 0                                   | 0                                            | 0                                    | 0                                       | 0                                       |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 2002       | 0                                  | 0                                    | 0                                  | 1.43                               | 3.29                              | 0                                  | 0                                  | 0                                   | 0                                            | 0                                    | 0                                       | 0                                       |

[illegible]

| <b>Nombre</b>                            | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Rio Blanco<br>(Hidrologia Antigua) | 2010       | 0                                  | 0                                    | 0                                  | 0                                  | 0.03                              | 0                                  | 0                                  | 0                                   | 0                                            | 0                                    | 0.13                                    | 0                                       |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 2011       | 0.03                               | 0.01                                 | 0                                  | 0                                  | 0.59                              | 0                                  | 0                                  | 0                                   | 0.04                                         | 0.15                                 | 0.06                                    | 0.01                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 2012       | 0.02                               | 0.01                                 | 0.01                               | 0.07                               | 0                                 | 0.02                               | 0                                  | 0.02                                | 0.07                                         | 0.03                                 | 0                                       | 0.01                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 2013       | 0.02                               | 0.02                                 | 0.01                               | 0.01                               | 0.03                              | 0.05                               | 0.03                               | 0.04                                | 0.04                                         | 0.03                                 | 0.02                                    | 0.03                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 2014       | 0.93                               | 0.29                                 | 0.51                               | 0.35                               | 0                                 | 0.13                               | 0.35                               | 0                                   | 0                                            | 0                                    | 0                                       | 0.14                                    |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 2015       | 0                                  | 0                                    | 0                                  | 0                                  | 0                                 | 0                                  | 0                                  | 0                                   | 0                                            | 0.01                                 | 0                                       | 0                                       |
| Serie Rio Blanco<br>(Hidrologia Antigua) | 2016       | 0.76                               | 0                                    | 0                                  | 0.01                               | 0                                 | 0.11                               | 0.01                               | 0                                   | 0                                            | 0                                    | 0                                       | 0                                       |

| <b>Nombre</b>                            | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Rio Blanco<br>(Hidrologia Antigua) | 2017       | 0                                  | 0.38                                 | 0                                  | 0                                  | 0                                 | 0                                  | 0                                  | 0                                   | 0                                            | 0                                    | 0                                       | 0.01                                    |
| Serie Teusaca<br>(Hidrologia Antigua)    | 1947       | 0.89                               | 0.41                                 | 0.29                               | 0.26                               | 0.85                              | 2.81                               | 5.24                               | 3.08                                | 2.58                                         | 3.17                                 | 3.2                                     | 0.86                                    |
| Serie Teusaca<br>(Hidrologia Antigua)    | 1948       | 0.12                               | 0.28                                 | 0.3                                | 3.67                               | 2.98                              | 4.01                               | 3.94                               | 2.58                                | 1.1                                          | 2.1                                  | 3.81                                    | 1.05                                    |
| Serie Teusaca<br>(Hidrologia Antigua)    | 1949       | 0.21                               | 0.3                                  | 0.75                               | 1.35                               | 3.55                              | 3.21                               | 5.75                               | 2.68                                | 1.56                                         | 2.48                                 | 3.61                                    | 1.52                                    |
| Serie Teusaca<br>(Hidrologia Antigua)    | 1950       | 0.81                               | 2.8                                  | 2.62                               | 1.59                               | 6.38                              | 4.56                               | 5.4                                | 3.19                                | 1.51                                         | 2.65                                 | 3.93                                    | 2.64                                    |
| Serie Teusaca<br>(Hidrologia Antigua)    | 1951       | 0.44                               | 1.33                                 | 6.18                               | 2.96                               | 7.14                              | 4.19                               | 6.94                               | 3.39                                | 1.34                                         | 3.07                                 | 6.01                                    | 1.47                                    |
| Serie Teusaca<br>(Hidrologia Antigua)    | 1952       | 0.77                               | 0.72                                 | 1.28                               | 2.37                               | 6.72                              | 3.98                               | 9.22                               | 5.07                                | 2.11                                         | 2.44                                 | 8.02                                    | 4.12                                    |

| <b>Nombre</b>                                   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1953       | 0.35                               | 0.41                                 | 0.39                               | 0.56                               | 3.99                              | 3.91                               | 4.94                               | 3.7                                 | 1.48                                         | 4.15                                 | 4.32                                    | 2.28                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1954       | 0.35                               | 0.35                                 | 0.22                               | 2.85                               | 3.94                              | 4.73                               | 7.53                               | 5.44                                | 3.35                                         | 4.57                                 | 6.44                                    | 3.42                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1955       | 0.88                               | 0.7                                  | 1.61                               | 3.06                               | 3.68                              | 3.63                               | 6.35                               | 2.18                                | 2.74                                         | 4.57                                 | 5.71                                    | 3.07                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1956       | 4.02                               | 2.04                                 | 4.2                                | 1.31                               | 1.84                              | 5.95                               | 4.28                               | 4.08                                | 3.91                                         | 6.06                                 | 3.6                                     | 7.26                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1957       | 1.08                               | 0.4                                  | 3.02                               | 1.4                                | 8.96                              | 4.14                               | 6.08                               | 3.5                                 | 2.31                                         | 4.48                                 | 5.54                                    | 3.5                                     |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1958       | 0.22                               | 0.3                                  | 0.28                               | 0.26                               | 1.26                              | 1.67                               | 2.98                               | 2.77                                | 0.92                                         | 2.3                                  | 4.21                                    | 1.11                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1959       | 0.11                               | 0.15                                 | 0.13                               | 0.11                               | 1.59                              | 2.47                               | 7.37                               | 2.6                                 | 3.45                                         | 2.79                                 | 3.78                                    | 1.17                                    |

| <b>Nombre</b>                                   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1960       | 0.16                               | 0.6                                  | 0.74                               | 0.48                               | 1.19                              | 2.36                               | 3.36                               | 4.52                                | 2.13                                         | 2.04                                 | 3.04                                    | 2.04                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1961       | 0.06                               | 0.28                                 | 0.63                               | 1.09                               | 1.03                              | 3.4                                | 4.88                               | 4.19                                | 1.31                                         | 3.91                                 | 5.88                                    | 1.14                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1962       | 0.09                               | 0.22                                 | 0.42                               | 0.46                               | 2.97                              | 5.79                               | 5.89                               | 4.28                                | 1.66                                         | 2.65                                 | 5.37                                    | 1.27                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1963       | 0.64                               | 0.96                                 | 0.33                               | 2.09                               | 8.89                              | 4.8                                | 5.54                               | 3.54                                | 1.61                                         | 2.03                                 | 5.23                                    | 1.19                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1964       | 0.09                               | 0.17                                 | 0.08                               | 0.35                               | 0.89                              | 4.32                               | 8.73                               | 3.46                                | 0.92                                         | 1.79                                 | 0.82                                    | 3.07                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1965       | 0.56                               | 0.04                                 | 0.05                               | 1.69                               | 4.38                              | 2.85                               | 4.71                               | 2.61                                | 0.82                                         | 2.98                                 | 6.23                                    | 1.65                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1966       | 0.11                               | 0.12                                 | 1.01                               | 0.95                               | 0.27                              | 0.45                               | 2.09                               | 2.69                                | 1.42                                         | 2.02                                 | 5.42                                    | 8.34                                    |

| <b>Nombre</b>                                   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1967       | 0.82                               | 0.23                                 | 1.79                               | 3.69                               | 5.97                              | 9.13                               | 6.23                               | 5.94                                | 1.6                                          | 1.45                                 | 6.21                                    | 2.92                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1968       | 0.65                               | 0.9                                  | 0.43                               | 4.34                               | 2.32                              | 6.09                               | 7.78                               | 4.75                                | 1.78                                         | 3.44                                 | 4.87                                    | 1.26                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1969       | 2.37                               | 0.76                                 | 0.16                               | 3.19                               | 3.55                              | 2.8                                | 5.12                               | 3.78                                | 1.5                                          | 9.58                                 | 6.98                                    | 1.68                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1970       | 0.86                               | 0.88                                 | 0.54                               | 0.54                               | 1.35                              | 3.35                               | 3.66                               | 3.36                                | 2.04                                         | 7.16                                 | 6.98                                    | 1.66                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1971       | 0.72                               | 0.66                                 | 1.11                               | 5.05                               | 5.63                              | 4.3                                | 5.89                               | 3.58                                | 4.81                                         | 3.3                                  | 3.6                                     | 1.85                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1972       | 3.21                               | 1.44                                 | 1.34                               | 4                                  | 8.09                              | 6.63                               | 7.22                               | 2.49                                | 1.87                                         | 2.28                                 | 4.89                                    | 0.8                                     |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1973       | 0.21                               | 0.12                                 | 0.16                               | 0.18                               | 0.82                              | 1.6                                | 1.65                               | 1.93                                | 4.95                                         | 4.59                                 | 3.78                                    | 7.89                                    |

| <b>Nombre</b>                                   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1974       | 0.89                               | 1.77                                 | 2.12                               | 2.15                               | 3.57                              | 1.68                               | 2.87                               | 1.93                                | 1.43                                         | 2.31                                 | 4.12                                    | 1.18                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1975       | 0.22                               | 0.66                                 | 0.9                                | 0.66                               | 2.68                              | 4.38                               | 2.56                               | 3.72                                | 2.87                                         | 1.61                                 | 5.19                                    | 6.07                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1976       | 2.16                               | 0.74                                 | 1.17                               | 5.41                               | 7.11                              | 6.23                               | 8.63                               | 3.22                                | 3.21                                         | 8.49                                 | 6.96                                    | 2.4                                     |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1977       | 0.47                               | 0.24                                 | 0.23                               | 0.84                               | 1.53                              | 2.67                               | 3.34                               | 3.09                                | 3.09                                         | 3.87                                 | 4.5                                     | 0.51                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1978       | 0.25                               | 0.72                                 | 0.6                                | 1.6                                | 2.5                               | 3.3                                | 1.25                               | 1.36                                | 2.1                                          | 2.5                                  | 1.72                                    | 0.9                                     |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1979       | 0.51                               | 0.57                                 | 0.72                               | 1.74                               | 1.79                              | 4.96                               | 2.13                               | 2.07                                | 1.4                                          | 9.19                                 | 10.13                                   | 4.28                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1980       | 0.98                               | 1.02                                 | 0.85                               | 1.6                                | 0.94                              | 4.1                                | 2.18                               | 1.61                                | 1.33                                         | 1.65                                 | 1.56                                    | 0.77                                    |

| <b>Nombre</b>                                   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1981       | 0.58                               | 0.43                                 | 0.46                               | 1.86                               | 4.32                              | 4.08                               | 8.11                               | 3.71                                | 3.81                                         | 4.71                                 | 3.9                                     | 1.97                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1982       | 3.28                               | 1.61                                 | 2.22                               | 8.31                               | 7.6                               | 4.35                               | 7.73                               | 6.08                                | 3.99                                         | 3                                    | 4.98                                    | 2.64                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1983       | 0.86                               | 1.83                                 | 1.74                               | 10                                 | 3.38                              | 3.04                               | 4.49                               | 1.77                                | 0.12                                         | 1.49                                 | 2.13                                    | 1.74                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1984       | 0.95                               | 0.79                                 | 0.49                               | 0.46                               | 1.12                              | 5.85                               | 2.88                               | 2.89                                | 2.23                                         | 0.78                                 | 11.19                                   | 0.37                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1985       | 0.28                               | 0.08                                 | 0.09                               | 0                                  | 1.63                              | 16.3                               | 5.47                               | 4.93                                | 3.51                                         | 5.76                                 | 0.63                                    | 5.1                                     |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1986       | 1.34                               | 1.15                                 | 2.67                               | 0                                  | 0                                 | 0.07                               | 2.78                               | 1.18                                | 0.34                                         | 0.7                                  | 0.45                                    | 0.45                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1987       | 0.44                               | 0.34                                 | 0.72                               | 0                                  | 0                                 | 0.29                               | 4.23                               | 2.86                                | 1.27                                         | 2.96                                 | 3.23                                    | 2.02                                    |

| <b>Nombre</b>                                   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1988       | 0.95                               | 0.52                                 | 0.54                               | 0                                  | 0.59                              | 2                                  | 10.43                              | 6.13                                | 1.96                                         | 2.52                                 | 3.1                                     | 0                                       |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1989       | 0.48                               | 0.94                                 | 1.4                                | 2.31                               | 2.31                              | 1.86                               | 2.34                               | 1.78                                | 1.66                                         | 1.74                                 | 2.21                                    | 2.18                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1990       | 0                                  | 0                                    | 2.04                               | 1.91                               | 4.55                              | 2.6                                | 2.53                               | 2.66                                | 1.44                                         | 1.83                                 | 2.07                                    | 1.85                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1991       | 2.05                               | 1.84                                 | 1.68                               | 2.09                               | 1.84                              | 2.3                                | 4.53                               | 8.44                                | 2.27                                         | 1.45                                 | 3.49                                    | 1.73                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1992       | 1.4                                | 1.63                                 | 1.98                               | 2.15                               | 1.55                              | 1.93                               | 7.54                               | 2.07                                | 0.68                                         | 1.01                                 | 1.83                                    | 1.94                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1993       | 1.12                               | 1                                    | 0.8                                | 1.6                                | 2.61                              | 4.12                               | 5.19                               | 6.22                                | 3.4                                          | 2.39                                 | 3.46                                    | 1.96                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1994       | 0.92                               | 0.83                                 | 0.78                               | 1.1                                | 3.51                              | 3.09                               | 8.63                               | 7.33                                | 3.64                                         | 4.76                                 | 2.77                                    | 1.41                                    |

| <b>Nombre</b>                                   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1995       | 0.52                               | 0.45                                 | 0.49                               | 1.02                               | 1.92                              | 2.76                               | 1.97                               | 1.92                                | 1.29                                         | 1.48                                 | 1.39                                    | 0.9                                     |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1996       | 0.5                                | 0.52                                 | 0.69                               | 0.68                               | 1.76                              | 2.49                               | 4.98                               | 1.97                                | 1.31                                         | 2.15                                 | 1.96                                    | 2.8                                     |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1997       | 4.77                               | 4.95                                 | 3.33                               | 0.57                               | 0.69                              | 0.57                               | 3.79                               | 2.36                                | 0.88                                         | 0.47                                 | 0.53                                    | 0.53                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1998       | 0.57                               | 0.83                                 | 1.17                               | 1.11                               | 2.57                              | 2.46                               | 10.31                              | 4.01                                | 0.71                                         | 1.34                                 | 1.13                                    | 5.56                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 1999       | 3.51                               | 2.6                                  | 3.03                               | 5.32                               | 5.82                              | 5.59                               | 9.49                               | 4.94                                | 4.2                                          | 4.84                                 | 4.92                                    | 3.83                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2000       | 3.33                               | 3.38                                 | 2.17                               | 2.6                                | 4.42                              | 5.33                               | 4.31                               | 4.9                                 | 6.62                                         | 2.2                                  | 3.94                                    | 1.03                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2001       | 0.15                               | 0.17                                 | 0.42                               | 0.19                               | 0.74                              | 1.8                                | 2.8                                | 1.57                                | 2.3                                          | 1.19                                 | 3.01                                    | 2.19                                    |

| <b>Nombre</b>                                   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2002       | 0.96                               | 0.83                                 | 1.31                               | 3.07                               | 3.39                              | 7.92                               | 3.67                               | 5.46                                | 2                                            | 2.68                                 | 3.61                                    | 1.04                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2003       | 0.58                               | 0.54                                 | 0.73                               | 2.01                               | 2.98                              | 1.74                               | 3.91                               | 3.33                                | 1.76                                         | 2.14                                 | 2.26                                    | 2.57                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2004       | 0.85                               | 1.35                                 | 1.29                               | 2.29                               | 5.27                              | 8.28                               | 3.33                               | 5.56                                | 2.96                                         | 4.32                                 | 4.41                                    | 1.93                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2005       | 0.86                               | 1.08                                 | 0.45                               | 2.16                               | 4.49                              | 3.39                               | 2.1                                | 3.48                                | 2.91                                         | 5.03                                 | 6.52                                    | 2.61                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2006       | 1.31                               | 0.83                                 | 2.18                               | 4.75                               | 5.51                              | 5.89                               | 5.02                               | 2.29                                | 1.46                                         | 2.67                                 | 5.25                                    | 2.08                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2007       | 0.19                               | 0.12                                 | 0.37                               | 1.82                               | 1.34                              | 3.28                               | 2.84                               | 3.07                                | 1.97                                         | 4.32                                 | 3.81                                    | 2.59                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2008       | 0.67                               | 0.34                                 | 1.09                               | 1.24                               | 3.41                              | 4.83                               | 8.42                               | 5.3                                 | 3.47                                         | 3.12                                 | 7.65                                    | 5.71                                    |

| <b>Nombre</b>                                   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2009       | 2.33                               | 1.23                                 | 1.79                               | 3.28                               | 2.55                              | 2.89                               | 3.2                                | 3.16                                | 1.27                                         | 1.57                                 | 2.92                                    | 0.86                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2010       | 0.33                               | 0.51                                 | 0.44                               | 2.4                                | 4.58                              | 5.14                               | 7.63                               | 4.1                                 | 2.34                                         | 4.59                                 | 8.84                                    | 5.72                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2011       | 2.33                               | 3.51                                 | 7.95                               | 11.05                              | 11.91                             | 7.06                               | 3.61                               | 3.5                                 | 2.69                                         | 6.26                                 | 11.43                                   | 8.52                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2012       | 2.38                               | 2.03                                 | 2.2                                | 8.87                               | 4.58                              | 3.35                               | 3.47                               | 3.81                                | 3.01                                         | 5.34                                 | 2.45                                    | 3.21                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2013       | 0.93                               | 1.09                                 | 0.83                               | 1.4                                | 3.92                              | 2.34                               | 2.25                               | 2.76                                | 1.95                                         | 1.31                                 | 3.8                                     | 4.57                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2014       | 1.6                                | 0.72                                 | 1.9                                | 0.94                               | 1.78                              | 4.78                               | 6.35                               | 3.58                                | 2.48                                         | 2.66                                 | 4.1                                     | 2.71                                    |
| Serie<br>Teusaca<br>(Hidrolog<br>ia<br>Antigua) | 2015       | 0.52                               | 0.4                                  | 0.18                               | 1.04                               | 0.83                              | 4.93                               | 5.43                               | 5.11                                | 3.14                                         | 0.67                                 | 1.19                                    | 0.57                                    |

| <b>Nombre</b>                                     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Teusaca (Hidrología Antigua)                | 2016       | 0.28                               | 0.14                                 | 0.58                               | 1.35                               | 2.54                              | 3.7                                | 4.12                               | 4.34                                | 4.03                                         | 3.01                                 | 6.22                                    | 2.65                                    |
| Serie Teusaca (Hidrología Antigua)                | 2017       | 1.49                               | 1.08                                 | 3.98                               | 3.5                                | 5.26                              | 5.16                               | 5.46                               | 3.79                                | 1.33                                         | 3.61                                 | 1.56                                    | 0.73                                    |
| Serie Filo de Agua Alicachin (Hidrología Antigua) | 1965       | 0.15                               | 0                                    | 0                                  | 9.88                               | 30.61                             | 11.18                              | 9.14                               | 7.28                                | 0                                            | 11.64                                | 30.71                                   | 17.38                                   |
| Serie Filo de Agua Alicachin (Hidrología Antigua) | 1966       | 0                                  | 0                                    | 3.1                                | 2.85                               | 3.88                              | 7.52                               | 6.6                                | 8.81                                | 2.58                                         | 10.02                                | 14.73                                   | 47.38                                   |
| Serie Filo de Agua Alicachin (Hidrología Antigua) | 1967       | 3.95                               | 4.68                                 | 1.89                               | 9.27                               | 23.76                             | 34.22                              | 22.7                               | 18.97                               | 6.34                                         | 5.7                                  | 12.96                                   | 10.74                                   |
| Serie Filo de Agua Alicachin (Hidrología Antigua) | 1968       | 2.39                               | 4.06                                 | 4.13                               | 16.89                              | 12.91                             | 33.52                              | 22.56                              | 14.66                               | 12.76                                        | 21.26                                | 26.38                                   | 12.66                                   |

| <b>Nombre</b>                                                     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1969       | 4.15                               | 4.69                                 | 0                                  | 20.12                              | 24.04                             | 17.17                              | 14.21                              | 8.36                                | 1.72                                         | 45.17                                | 27.51                                   | 12.53                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1970       | 6.07                               | 5.51                                 | 4.03                               | 3.33                               | 10.36                             | 12.3                               | 10.12                              | 7.69                                | 8.02                                         | 29.02                                | 40.15                                   | 10.52                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1971       | 10.21                              | 13.24                                | 14.47                              | 34.33                              | 42.69                             | 32.29                              | 15.41                              | 14.03                               | 18.31                                        | 16.09                                | 24.4                                    | 11.93                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1972       | 16.89                              | 11.25                                | 7.12                               | 24.36                              | 49.72                             | 0.76                               | 9.22                               | 0                                   | 0                                            | 3.11                                 | 14.01                                   | 0                                       |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1973       | 0                                  | 0                                    | 0                                  | 0                                  | 1.11                              | 2.79                               | 5.42                               | 7.85                                | 21.57                                        | 12.4                                 | 17.67                                   | 24.38                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1974       | 5.09                               | 14.99                                | 14.32                              | 13.52                              | 26.17                             | 7.77                               | 9.01                               | 7.67                                | 6.8                                          | 10.97                                | 31.29                                   | 10.76                                   |

| <b>Nombre</b>                                                     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1975       | 0                                  | 2.79                                 | 5.81                               | 1.53                               | 16.64                             | 18.51                              | 13.02                              | 11.19                               | 15.23                                        | 11.84                                | 26.49                                   | 42.83                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1976       | 12.55                              | 7.83                                 | 8.72                               | 33.13                              | 41.35                             | 35.86                              | 50.93                              | 13.06                               | 0                                            | 16.24                                | 25.02                                   | 6.15                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1977       | 0                                  | 1.17                                 | 0                                  | 3.37                               | 8.57                              | 4.32                               | 9.56                               | 4.74                                | 8.3                                          | 14.07                                | 29.47                                   | 3.23                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1978       | 2.27                               | 0.89                                 | 2.14                               | 14.9                               | 10.67                             | 19.34                              | 13.8                               | 6.8                                 | 4.52                                         | 8.42                                 | 5.23                                    | 3.54                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1979       | 0.53                               | 0                                    | 3.77                               | 3.07                               | 22.99                             | 33.25                              | 9.75                               | 4.73                                | 13.01                                        | 10.5                                 | 57.5                                    | 34.6                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1980       | 9.84                               | 7.04                                 | 0.87                               | 0                                  | 3.81                              | 21.19                              | 8.26                               | 2.43                                | 6.8                                          | 8.35                                 | 3.16                                    | 4.45                                    |

| <b>Nombre</b>                                                     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1981       | 0                                  | 0.57                                 | 0                                  | 8.58                               | 31.29                             | 15.13                              | 1.09                               | 0                                   | 4.02                                         | 6.42                                 | 18.14                                   | 5.92                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1982       | 4.85                               | 2.49                                 | 6.54                               | 44.84                              | 38.86                             | 9.54                               | 4.16                               | 5.08                                | 4.23                                         | 11                                   | 3.5                                     | 3.85                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1983       | 0                                  | 0                                    | 8.99                               | 22.26                              | 21.21                             | 6.89                               | 9.56                               | 2.3                                 | 2.06                                         | 4.36                                 | 0.49                                    | 5.01                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1984       | 9.11                               | 6.8                                  | 2.17                               | 4.67                               | 13.38                             | 13.54                              | 6.4                                | 12.52                               | 10.11                                        | 11.89                                | 13.39                                   | 8.48                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1985       | 2.9                                | 0.06                                 | 0.92                               | 3.51                               | 8.75                              | 0                                  | 2.96                               | 7.14                                | 12.05                                        | 18.19                                | 27.91                                   | 10.05                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1986       | 1.35                               | 0                                    | 12.22                              | 9.12                               | 7.44                              | 33.82                              | 32.42                              | 14.59                               | 0                                            | 43.04                                | 42.13                                   | 9.24                                    |

| <b>Nombre</b>                                                     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1987       | 0.95                               | 0.52                                 | 0                                  | 0.66                               | 19.33                             | 3.91                               | 14.96                              | 10.73                               | 5.55                                         | 20.73                                | 11.87                                   | 6.64                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1988       | 0                                  | 2.09                                 | 0                                  | 4.25                               | 6.84                              | 15.79                              | 15.38                              | 9.39                                | 15.77                                        | 24.29                                | 36.19                                   | 29.73                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1989       | 5.28                               | 11.61                                | 21.35                              | 8.34                               | 15.13                             | 16.9                               | 15.14                              | 4.63                                | 5.57                                         | 8.16                                 | 8.55                                    | 8.64                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1990       | 4.47                               | 6.43                                 | 2.13                               | 12.89                              | 33.83                             | 14.66                              | 7.65                               | 7.74                                | 0                                            | 18.36                                | 14.81                                   | 21.76                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1991       | 1.09                               | 0                                    | 10.38                              | 13.88                              | 11.76                             | 5.29                               | 17.56                              | 16.97                               | 12.33                                        | 3.79                                 | 17.62                                   | 7.53                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1992       | 0                                  | 0                                    | 0                                  | 3.57                               | 1.9                               | 0                                  | 4.05                               | 8.41                                | 2.63                                         | 0.98                                 | 8.83                                    | 7.55                                    |

| <b>Nombre</b>                                                     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1993       | 2.25                               | 2.45                                 | 2.51                               | 8.52                               | 19.73                             | 13.23                              | 12.85                              | 0.93                                | 3.4                                          | 1.79                                 | 17.82                                   | 7.7                                     |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1994       | 1.68                               | 3.72                                 | 8.18                               | 12.42                              | 20.77                             | 15.6                               | 10.89                              | 4.22                                | 1.49                                         | 9.57                                 | 20.06                                   | 5.79                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1995       | 0                                  | 0                                    | 5.83                               | 12.16                              | 14.06                             | 17.1                               | 7.43                               | 12.43                               | 6.7                                          | 8.08                                 | 9.63                                    | 11.69                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1996       | 0                                  | 4.97                                 | 17.5                               | 6.95                               | 19.06                             | 11.9                               | 22.9                               | 17.1                                | 1.95                                         | 17.68                                | 6.68                                    | 7.28                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1997       | 13.95                              | 1.36                                 | 0                                  | 0.89                               | 2.83                              | 5.38                               | 22.13                              | 5.57                                | 0                                            | 0.15                                 | 3.47                                    | 0                                       |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1998       | 0                                  | 0                                    | 0                                  | 5.97                               | 20.22                             | 22.87                              | 20.54                              | 17.46                               | 6.45                                         | 13.36                                | 17.41                                   | 21.45                                   |

| <b>Nombre</b>                                                     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 1999       | 9.81                               | 14.5                                 | 23.46                              | 19.23                              | 12.66                             | 10.79                              | 0.04                               | 8.89                                | 18.83                                        | 32.25                                | 41.58                                   | 15.02                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2000       | 2.25                               | 9.36                                 | 0                                  | 4.99                               | 11.43                             | 9.81                               | 12.79                              | 9.34                                | 0                                            | 2.42                                 | 1.25                                    | 4.5                                     |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2001       | 1.6                                | 1.17                                 | 6.42                               | 2.19                               | 8.98                              | 9.73                               | 9.08                               | 6.3                                 | 8.84                                         | 1.32                                 | 7.84                                    | 7.82                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2002       | 1.91                               | 2.99                                 | 4.72                               | 13.73                              | 9.13                              | 35.81                              | 10.12                              | 3.41                                | 3.83                                         | 6.82                                 | 9.11                                    | 7.49                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2003       | 0.85                               | 0.87                                 | 4.47                               | 15.26                              | 5.95                              | 5.54                               | 10.9                               | 9.6                                 | 6.1                                          | 14                                   | 20.38                                   | 14.8                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2004       | 3.23                               | 3.48                                 | 3.49                               | 21.82                              | 21.23                             | 22.98                              | 11.46                              | 11.77                               | 10.12                                        | 19.1                                 | 37.06                                   | 10.61                                   |

| <b>Nombre</b>                                                     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2005       | 2.35                               | 6.11                                 | 1.44                               | 7.59                               | 28.45                             | 11.79                              | 8.63                               | 7.72                                | 7.08                                         | 24.94                                | 22.76                                   | 12.34                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2006       | 12.05                              | 3.35                                 | 14.5                               | 34.68                              | 61.08                             | 33.87                              | 10.09                              | 10.56                               | 5.02                                         | 16.87                                | 35.83                                   | 9.97                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2007       | 0.27                               | 0.43                                 | 4.35                               | 13.78                              | 10.1                              | 16.72                              | 10                                 | 11.09                               | 1.33                                         | 23.65                                | 27.71                                   | 24.33                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2008       | 4.72                               | 8.6                                  | 12.7                               | 16.67                              | 41.98                             | 36.96                              | 29.65                              | 21.55                               | 18.34                                        | 20.86                                | 39.06                                   | 29.24                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2009       | 9.87                               | 10.61                                | 15.99                              | 21.52                              | 11.46                             | 10.53                              | 12.75                              | 5.93                                | 3.37                                         | 14.27                                | 14.73                                   | 3.17                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2010       | 0.69                               | 5.53                                 | 2.68                               | 22.72                              | 27.43                             | 34.2                               | 44.57                              | 22.32                               | 14                                           | 25.68                                | 73.93                                   | 63.45                                   |

| <b>Nombre</b>                                                     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------------------------------------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2011       | 12.18                              | 14.62                                | 38.89                              | 72.43                              | 97.48                             | 53.52                              | 19.02                              | 18.42                               | 12.99                                        | 35.73                                | 68.79                                   | 74.13                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2012       | 17.62                              | 10.64                                | 22.35                              | 49.84                              | 28.31                             | 13.92                              | 13.23                              | 19.25                               | 12.59                                        | 17.5                                 | 11.76                                   | 7.82                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2013       | 0.62                               | 12.69                                | 10.22                              | 15.6                               | 45.32                             | 13.58                              | 13                                 | 17.05                               | 8.71                                         | 10.88                                | 31.65                                   | 32.52                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2014       | 6.57                               | 6.1                                  | 15.87                              | 10.36                              | 20                                | 30.75                              | 27.33                              | 11.61                               | 7.38                                         | 18.4                                 | 35.22                                   | 22.02                                   |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2015       | 7.33                               | 6.73                                 | 10.01                              | 13.53                              | 5.33                              | 22.26                              | 18.09                              | 15.73                               | 11.64                                        | 4.12                                 | 12.82                                   | 6.82                                    |
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2016       | 1.84                               | 0.61                                 | 3.08                               | 17.43                              | 19.67                             | 11.85                              | 13.24                              | 12.66                               | 10.97                                        | 13.97                                | 40.76                                   | 16                                      |

| Nombre                                                            | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|-------------------------------------------------------------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Serie Filo<br>de Agua<br>Alicachin<br>(Hidrolog<br>ia<br>Antigua) | 2017 | 9.12                      | 5.83                        | 34.71                     | 20.35                     | 54.92                    | 30.33                     | 14.64                     | 16.51                      | 5.91                               | 7.21                        | 37.35                          | 17.68                          |
| Serie<br>Guavio                                                   | 1963 | 13.3                      | 19.3                        | 15.7                      | 60.6                      | 113.8                    | 110.3                     | 105.5                     | 104.7                      | 79.3                               | 36.3                        | 43.6                           | 28.2                           |
| Serie<br>Guavio                                                   | 1964 | 10.7                      | 11                          | 21.1                      | 56.4                      | 104.9                    | 131.6                     | 100.7                     | 101.2                      | 97.8                               | 63.6                        | 54                             | 43.5                           |
| Serie<br>Guavio                                                   | 1965 | 39.2                      | 13.4                        | 14.5                      | 68                        | 131.6                    | 114.2                     | 144.9                     | 111.2                      | 59.9                               | 71.6                        | 71.7                           | 42.3                           |
| Serie<br>Guavio                                                   | 1966 | 21.8                      | 12.6                        | 37.6                      | 37.7                      | 37.5                     | 47.5                      | 90.9                      | 103.3                      | 67.8                               | 42.7                        | 62.4                           | 51.8                           |
| Serie<br>Guavio                                                   | 1967 | 35.7                      | 25.1                        | 21.6                      | 64.5                      | 92.5                     | 144.2                     | 129                       | 138.6                      | 84.8                               | 44.7                        | 40.7                           | 34                             |
| Serie<br>Guavio                                                   | 1968 | 13.3                      | 14.2                        | 22.8                      | 101.1                     | 72.7                     | 143.2                     | 206                       | 101.1                      | 72.1                               | 72                          | 58.8                           | 20.6                           |
| Serie<br>Guavio                                                   | 1969 | 15.6                      | 18.4                        | 18.6                      | 60.7                      | 86                       | 86.6                      | 114                       | 99.4                       | 58.7                               | 92.6                        | 53.1                           | 35.3                           |
| Serie<br>Guavio                                                   | 1970 | 33.4                      | 21.1                        | 45.7                      | 99.9                      | 104                      | 163.9                     | 134                       | 128.7                      | 98.1                               | 87.4                        | 62.5                           | 35.1                           |
| Serie<br>Guavio                                                   | 1971 | 24.3                      | 29.9                        | 56.7                      | 87.6                      | 120.2                    | 154.8                     | 174.1                     | 132.4                      | 99                                 | 70.6                        | 48.2                           | 28.2                           |
| Serie<br>Guavio                                                   | 1972 | 55.5                      | 27.4                        | 38                        | 87.5                      | 157.5                    | 157.5                     | 171.8                     | 129.3                      | 90.1                               | 46                          | 46.5                           | 21.6                           |
| Serie<br>Guavio                                                   | 1973 | 13.6                      | 10.9                        | 12.5                      | 30.4                      | 98.7                     | 137.9                     | 130.9                     | 106.9                      | 118.6                              | 71.1                        | 66.9                           | 33.7                           |
| Serie<br>Guavio                                                   | 1974 | 16.8                      | 21.1                        | 31.8                      | 80.5                      | 118.8                    | 110.2                     | 145.8                     | 126.1                      | 62.6                               | 52.6                        | 43.6                           | 17                             |
| Serie<br>Guavio                                                   | 1975 | 11.5                      | 9.6                         | 40.8                      | 46.3                      | 96.7                     | 197.6                     | 96.2                      | 114.7                      | 75.4                               | 73.1                        | 50.5                           | 44.7                           |
| Serie<br>Guavio                                                   | 1976 | 20.2                      | 17.6                        | 45.5                      | 72.7                      | 162.7                    | 203.2                     | 213.6                     | 107                        | 74.5                               | 59.4                        | 48.1                           | 30.7                           |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Guavio  | 1977       | 11.3                               | 15.9                                 | 19.1                               | 38                                 | 65.6                              | 124.9                              | 172                                | 89.5                                | 83.3                                         | 63.3                                 | 50.9                                    | 16.4                                    |
| Serie Guavio  | 1978       | 9.7                                | 14.6                                 | 13.9                               | 63.5                               | 86.9                              | 148.8                              | 117.8                              | 90.9                                | 66.3                                         | 77.3                                 | 28                                      | 26.3                                    |
| Serie Guavio  | 1979       | 11.1                               | 8.4                                  | 23                                 | 67.6                               | 72.3                              | 125.3                              | 102.4                              | 90.7                                | 55.9                                         | 95.3                                 | 78.5                                    | 51.7                                    |
| Serie Guavio  | 1980       | 20                                 | 11.7                                 | 19.4                               | 70                                 | 71                                | 167.8                              | 108.3                              | 79.9                                | 77.6                                         | 75.8                                 | 32.1                                    | 20.9                                    |
| Serie Guavio  | 1981       | 10.5                               | 16.4                                 | 22.5                               | 59.8                               | 107.6                             | 121.3                              | 106.7                              | 77.9                                | 86                                           | 78.9                                 | 57.7                                    | 28.8                                    |
| Serie Guavio  | 1982       | 15.7                               | 19.1                                 | 27.9                               | 114                                | 106.2                             | 88.4                               | 159.2                              | 116.9                               | 95.9                                         | 77.8                                 | 45.9                                    | 30.4                                    |
| Serie Guavio  | 1983       | 32.1                               | 45.4                                 | 71.6                               | 103.6                              | 102.9                             | 115.8                              | 160.8                              | 115.6                               | 102                                          | 75.3                                 | 35.9                                    | 40.9                                    |
| Serie Guavio  | 1984       | 21.5                               | 70.6                                 | 32                                 | 40.2                               | 89.7                              | 232                                | 139                                | 139.6                               | 92.6                                         | 48.3                                 | 53.9                                    | 20.7                                    |
| Serie Guavio  | 1985       | 12.9                               | 9.2                                  | 14.2                               | 42.5                               | 107.6                             | 157                                | 115.2                              | 105.8                               | 96.2                                         | 76.9                                 | 55.6                                    | 40.1                                    |
| Serie Guavio  | 1986       | 14.4                               | 28.2                                 | 39.7                               | 50.7                               | 80.8                              | 187.1                              | 240                                | 145.6                               | 66                                           | 98.9                                 | 54.8                                    | 30.5                                    |
| Serie Guavio  | 1987       | 13.9                               | 31                                   | 22.2                               | 41.7                               | 71.8                              | 78                                 | 221                                | 178.1                               | 63.2                                         | 68                                   | 47.9                                    | 36.2                                    |
| Serie Guavio  | 1988       | 13.9                               | 12.2                                 | 10.6                               | 35.4                               | 70.4                              | 102.8                              | 157.3                              | 79.4                                | 80.9                                         | 70.5                                 | 87                                      | 43.9                                    |
| Serie Guavio  | 1989       | 25.4                               | 27.9                                 | 56                                 | 65                                 | 137.4                             | 160.5                              | 155.9                              | 83.9                                | 63.5                                         | 54.1                                 | 42.4                                    | 23.3                                    |
| Serie Guavio  | 1990       | 19.2                               | 25                                   | 68.5                               | 76                                 | 167.7                             | 169.4                              | 124.6                              | 100.4                               | 51.5                                         | 42.4                                 | 41.1                                    | 36.8                                    |
| Serie Guavio  | 1991       | 15.7                               | 16.8                                 | 27                                 | 51.1                               | 92.6                              | 127.1                              | 225.5                              | 163.6                               | 86.7                                         | 57.7                                 | 49.2                                    | 18.5                                    |
| Serie Guavio  | 1992       | 12.73                              | 13.06                                | 13.29                              | 41.44                              | 48.82                             | 85.93                              | 160.09                             | 122.64                              | 71.14                                        | 56.51                                | 47.9                                    | 22.92                                   |
| Serie Guavio  | 1993       | 13.86                              | 15.97                                | 38.42                              | 90.09                              | 98.57                             | 149.57                             | 183.39                             | 108.91                              | 78.53                                        | 60.35                                | 54.53                                   | 32.06                                   |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Guavio  | 1994       | 15.17                              | 13.09                                | 31.71                              | 67.57                              | 151.83                            | 175.75                             | 206.69                             | 135.38                              | 94.18                                        | 77.43                                | 55.55                                   | 31.22                                   |
| Serie Guavio  | 1995       | 16.83                              | 10.26                                | 27.94                              | 39.42                              | 85.94                             | 106.89                             | 87.94                              | 61.7                                | 46.35                                        | 47.23                                | 38.59                                   | 20.79                                   |
| Serie Guavio  | 1996       | 11.55                              | 40.61                                | 31.4                               | 60.47                              | 127.53                            | 110.75                             | 166.68                             | 91.21                               | 48.28                                        | 66.42                                | 37.11                                   | 40.28                                   |
| Serie Guavio  | 1997       | 16.74                              | 31.07                                | 17.9                               | 54.09                              | 131.74                            | 96.71                              | 208.39                             | 98.37                               | 48.17                                        | 32.94                                | 29.45                                   | 14.46                                   |
| Serie Guavio  | 1998       | 9.33                               | 13.41                                | 16.08                              | 51.98                              | 128.73                            | 190.56                             | 209.55                             | 105.02                              | 50.47                                        | 51.79                                | 45.1                                    | 38.28                                   |
| Serie Guavio  | 1999       | 23.32                              | 33.19                                | 31.23                              | 127.77                             | 104.96                            | 159.01                             | 87.5                               | 86.14                               | 72.35                                        | 113.03                               | 46.71                                   | 30.15                                   |
| Serie Guavio  | 2000       | 23.02                              | 24.51                                | 25.85                              | 41.95                              | 146.27                            | 139.62                             | 118.32                             | 129.14                              | 85.61                                        | 62.67                                | 72.32                                   | 40.97                                   |
| Serie Guavio  | 2001       | 19.22                              | 12.66                                | 19.74                              | 43.96                              | 105.53                            | 140.22                             | 115.79                             | 128.79                              | 89.92                                        | 43.36                                | 59.6                                    | 56.05                                   |
| Serie Guavio  | 2002       | 19.42                              | 14.27                                | 40.85                              | 88.49                              | 139.74                            | 163.74                             | 151.95                             | 147.58                              | 69.47                                        | 50.34                                | 53.63                                   | 21.92                                   |
| Serie Guavio  | 2003       | 10.58                              | 9.79                                 | 25.93                              | 65.55                              | 127.51                            | 83.33                              | 110.21                             | 114.89                              | 80.6                                         | 72.78                                | 45.62                                   | 32.65                                   |
| Serie Guavio  | 2004       | 16.1                               | 16.1                                 | 51.9                               | 76.63                              | 164.66                            | 234.2                              | 135.73                             | 132.27                              | 70.34                                        | 63.32                                | 46.43                                   | 24.26                                   |
| Serie Guavio  | 2005       | 14.82                              | 26.09                                | 18.53                              | 84.44                              | 118.71                            | 100.71                             | 80.38                              | 90.67                               | 94.17                                        | 65.8                                 | 80.09                                   | 21.89                                   |
| Serie Guavio  | 2006       | 19.02                              | 13.73                                | 58.93                              | 115.96                             | 120.67                            | 134.7                              | 114.52                             | 80.75                               | 50.01                                        | 69.83                                | 56.15                                   | 24.35                                   |
| Serie Guavio  | 2007       | 12.3                               | 9.33                                 | 23.94                              | 67.25                              | 86.45                             | 156.08                             | 83.28                              | 81.46                               | 68.9                                         | 58.78                                | 58.74                                   | 30.16                                   |
| Serie Guavio  | 2008       | 19.57                              | 14.99                                | 15                                 | 22.72                              | 76.7                              | 154.73                             | 159.28                             | 85.12                               | 73.12                                        | 51.29                                | 84.16                                   | 33.57                                   |
| Serie Guavio  | 2009       | 20                                 | 19.93                                | 28.82                              | 71.47                              | 57.76                             | 105.47                             | 148.23                             | 94.13                               | 58.99                                        | 46.46                                | 30.01                                   | 13.71                                   |
| Serie Guavio  | 2010       | 8.41                               | 12.25                                | 24.97                              | 60.33                              | 88.01                             | 102.71                             | 107.97                             | 63.82                               | 43.75                                        | 39.18                                | 61.16                                   | 36.32                                   |

| <b>Nombre</b>      | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Guavio       | 2011       | 18.49                              | 16.01                                | 59.43                              | 112.95                             | 128.67                            | 117.59                             | 81.97                              | 58.93                               | 66.4                                         | 70.34                                | 68.82                                   | 45.52                                   |
| Serie Guavio       | 2012       | 16.37                              | 23.5                                 | 61.93                              | 106.85                             | 125.15                            | 115.92                             | 156.85                             | 111.28                              | 64.97                                        | 49.08                                | 39.57                                   | 27.62                                   |
| Serie Guavio       | 2013       | 12.37                              | 15.14                                | 47.4                               | 61.77                              | 136.86                            | 90.88                              | 114.9                              | 96.72                               | 60                                           | 43.06                                | 61.5                                    | 32.8                                    |
| Serie Guavio       | 2014       | 13.32                              | 14.62                                | 28.28                              | 67.42                              | 68.2                              | 200.1                              | 199.54                             | 115.91                              | 92.96                                        | 52.98                                | 35.55                                   | 29.73                                   |
| Serie Guavio       | 2015       | 17.05                              | 26.15                                | 18.18                              | 82.38                              | 92.28                             | 216.74                             | 181.19                             | 138.23                              | 78.89                                        | 34.56                                | 47.83                                   | 35.77                                   |
| Serie Guavio       | 2016       | 15.71                              | 14.69                                | 20.64                              | 84.16                              | 117.49                            | 115.58                             | 153.71                             | 117.96                              | 108.78                                       | 50.16                                | 62.74                                   | 34.34                                   |
| Serie Guavio       | 2017       | 26.12                              | 25.48                                | 60.86                              | 48.86                              | 117.24                            | 117.42                             | 113.86                             | 65.05                               | 53.39                                        | 47.94                                | 37.79                                   | 19.22                                   |
| Serie Betania C.P. | 1961       | 127.75                             | 127.28                               | 192.84                             | 299.55                             | 224.13                            | 258.31                             | 256.83                             | 157                                 | 85.31                                        | 162.14                               | 313.52                                  | 140.42                                  |
| Serie Betania C.P. | 1962       | 99.16                              | 118.65                               | 131.8                              | 168.76                             | 305.91                            | 355.9                              | 309.2                              | 264.65                              | 121.79                                       | 250.54                               | 220.99                                  | 170.82                                  |
| Serie Betania C.P. | 1963       | 152.58                             | 237.48                               | 133.28                             | 249.82                             | 250.27                            | 202.41                             | 179.38                             | 170.07                              | 91.74                                        | 44                                   | 258.16                                  | 174.62                                  |
| Serie Betania C.P. | 1964       | 64.78                              | 41.47                                | 20.75                              | 216.26                             | 167.77                            | 273.96                             | 243.08                             | 216.92                              | 180.87                                       | 106.39                               | 165.67                                  | 160.37                                  |
| Serie Betania C.P. | 1965       | 85.54                              | 45.03                                | 32.89                              | 255.96                             | 288.93                            | 188.11                             | 181.16                             | 147.15                              | 64.72                                        | 148.48                               | 270.72                                  | 215.39                                  |
| Serie Betania C.P. | 1966       | 61.15                              | 40.05                                | 88.31                              | 137.42                             | 96.55                             | 99.06                              | 154.08                             | 150.51                              | 72.67                                        | 116.65                               | 198.53                                  | 383.6                                   |
| Serie Betania C.P. | 1967       | 113.63                             | 133.48                               | 156.88                             | 163.41                             | 190.31                            | 359.39                             | 200.01                             | 207.85                              | 50.33                                        | 75.89                                | 208.46                                  | 180.68                                  |

| <b>Nombre</b>            | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Betania<br>C.P. | 1968       | 170.01                             | 169.25                               | 232.69                             | 154.66                             | 242.33                            | 280.71                             | 91.86                              | 242.43                              | 81.61                                        | 184.4                                | 175.31                                  | 191.93                                  |
| Serie<br>Betania<br>C.P. | 1969       | 73.59                              | 52.1                                 | 26.04                              | 301.89                             | 217.67                            | 262.54                             | 238.65                             | 246.11                              | 89.19                                        | 307.56                               | 286.69                                  | 348.23                                  |
| Serie<br>Betania<br>C.P. | 1970       | 215.99                             | 217.24                               | 156.25                             | 189.23                             | 314.84                            | 307.72                             | 163.5                              | 197.15                              | 204.08                                       | 229.63                               | 347.65                                  | 209.88                                  |
| Serie<br>Betania<br>C.P. | 1971       | 308.16                             | 239.48                               | 251.41                             | 321.11                             | 298.8                             | 229.72                             | 264.86                             | 161.35                              | 99.05                                        | 244.71                               | 290.55                                  | 212.87                                  |
| Serie<br>Betania<br>C.P. | 1972       | 217.41                             | 201.58                               | 208.33                             | 306.13                             | 257.55                            | 243.88                             | 221.04                             | 72.63                               | 118.42                                       | 61.94                                | 238.77                                  | 152.01                                  |
| Serie<br>Betania<br>C.P. | 1973       | 60.32                              | 68.13                                | 79.31                              | 126.75                             | 176.58                            | 184.21                             | 211.2                              | 219.41                              | 251.75                                       | 221.34                               | 314.94                                  | 368.25                                  |
| Serie<br>Betania<br>C.P. | 1974       | 238.61                             | 404.9                                | 378.41                             | 309.97                             | 281.4                             | 222.34                             | 273.2                              | 208.86                              | 190.34                                       | 239.44                               | 328.88                                  | 226.32                                  |
| Serie<br>Betania<br>C.P. | 1975       | 116.37                             | 153.53                               | 232.73                             | 154.06                             | 306.75                            | 295.14                             | 242.14                             | 258.37                              | 220.94                                       | 262.62                               | 379.14                                  | 374.55                                  |
| Serie<br>Betania<br>C.P. | 1976       | 194.83                             | 250.1                                | 279.68                             | 373.56                             | 333.23                            | 272.88                             | 371.33                             | 254.06                              | 220.63                                       | 262.72                               | 257.91                                  | 194.1                                   |
| Serie<br>Betania<br>C.P. | 1977       | 93.84                              | 113.2                                | 110.37                             | 207.41                             | 223.94                            | 240.05                             | 183                                | 156.57                              | 189.26                                       | 245.25                               | 312.13                                  | 133.46                                  |
| Serie<br>Betania<br>C.P. | 1978       | 96.58                              | 87.26                                | 108.52                             | 279.94                             | 201.53                            | 214.12                             | 175.68                             | 182.13                              | 131.08                                       | 151.38                               | 113.07                                  | 169.15                                  |
| Serie<br>Betania<br>C.P. | 1979       | 89.64                              | 85.03                                | 243.73                             | 294.78                             | 239.75                            | 323.57                             | 194.75                             | 145.87                              | 163.08                                       | 169.67                               | 326.97                                  | 154.28                                  |

| <b>Nombre</b>            | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Betania<br>C.P. | 1980       | 137.48                             | 213.68                               | 151.77                             | 249.75                             | 198.63                            | 285.61                             | 200.08                             | 130.14                              | 117.5                                        | 215.97                               | 134.9                                   | 179.87                                  |
| Serie<br>Betania<br>C.P. | 1981       | 123.42                             | 150.79                               | 160.29                             | 209.86                             | 424.14                            | 239.24                             | 226.09                             | 156.8                               | 132.77                                       | 153.57                               | 309.33                                  | 170.41                                  |
| Serie<br>Betania<br>C.P. | 1982       | 377.04                             | 289.29                               | 275.18                             | 339.69                             | 353.73                            | 227.84                             | 303.4                              | 197.1                               | 182.52                                       | 230.27                               | 187.01                                  | 250.69                                  |
| Serie<br>Betania<br>C.P. | 1983       | 126.68                             | 75.49                                | 151.76                             | 311.73                             | 248.29                            | 130.68                             | 136.47                             | 222.17                              | 108.14                                       | 137.09                               | 131.85                                  | 215.74                                  |
| Serie<br>Betania<br>C.P. | 1984       | 297.97                             | 235.48                               | 147.26                             | 235.43                             | 264.87                            | 228.67                             | 261.52                             | 214.04                              | 209.62                                       | 291.54                               | 354.95                                  | 320.59                                  |
| Serie<br>Betania<br>C.P. | 1985       | 179.4                              | 112.33                               | 103.34                             | 169.79                             | 207.5                             | 314.86                             | 303.25                             | 248.48                              | 160.26                                       | 177.03                               | 186.28                                  | 177.52                                  |
| Serie<br>Betania<br>C.P. | 1986       | 154.38                             | 246.97                               | 357.44                             | 268.03                             | 189.03                            | 323.02                             | 442.91                             | 174.21                              | 142.44                                       | 460.17                               | 300.22                                  | 95.63                                   |
| Serie<br>Betania<br>C.P. | 1987       | 62.79                              | 62.78                                | 87.35                              | 195.02                             | 224.48                            | 143.05                             | 170.14                             | 211.49                              | 129.42                                       | 200.14                               | 152.6                                   | 137.82                                  |
| Serie<br>Betania<br>C.P. | 1988       | 53.2                               | 81.77                                | 64.72                              | 131.74                             | 149.56                            | 264.36                             | 372.65                             | 151.13                              | 126.16                                       | 168.51                               | 313.95                                  | 265.27                                  |
| Serie<br>Betania<br>C.P. | 1989       | 152.54                             | 148.24                               | 274.58                             | 143.39                             | 272.47                            | 185.68                             | 214.56                             | 124.61                              | 131.76                                       | 193.82                               | 192.97                                  | 127.5                                   |
| Serie<br>Betania<br>C.P. | 1990       | 117.73                             | 128.03                               | 123.86                             | 189.9                              | 330.85                            | 249.39                             | 265.05                             | 196.57                              | 100.5                                        | 148.95                               | 143.07                                  | 184.27                                  |
| Serie<br>Betania<br>C.P. | 1991       | 85.46                              | 76.06                                | 155.13                             | 172.48                             | 198.07                            | 155.03                             | 262.91                             | 270.93                              | 196.71                                       | 128.87                               | 183.2                                   | 197.35                                  |

| <b>Nombre</b>            | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Betania<br>C.P. | 1992       | 94.08                              | 77.75                                | 58.63                              | 128.17                             | 97.05                             | 146.66                             | 279.08                             | 199.3                               | 81                                           | 79.71                                | 148.97                                  | 164.72                                  |
| Serie<br>Betania<br>C.P. | 1993       | 88.79                              | 116.33                               | 223.8                              | 245.96                             | 251.56                            | 249.62                             | 208.73                             | 157.98                              | 119.69                                       | 119.08                               | 310.34                                  | 267.57                                  |
| Serie<br>Betania<br>C.P. | 1994       | 172.36                             | 167                                  | 257.71                             | 330.61                             | 361.12                            | 387.9                              | 309.35                             | 260.03                              | 179.94                                       | 193.68                               | 225.05                                  | 172.03                                  |
| Serie<br>Betania<br>C.P. | 1995       | 70.24                              | 52.89                                | 124.99                             | 245.94                             | 189.66                            | 179.58                             | 209.63                             | 110.07                              | 93.79                                        | 160.48                               | 176.62                                  | 133.46                                  |
| Serie<br>Betania<br>C.P. | 1996       | 131.24                             | 235.73                               | 323.08                             | 212.01                             | 220.08                            | 233.28                             | 345.24                             | 171.44                              | 111.1                                        | 227.27                               | 145.79                                  | 183.15                                  |
| Serie<br>Betania<br>C.P. | 1997       | 240.54                             | 138.52                               | 111.01                             | 149.77                             | 239.32                            | 146.21                             | 366.37                             | 151.19                              | 76.96                                        | 79.78                                | 119.32                                  | 68.75                                   |
| Serie<br>Betania<br>C.P. | 1998       | 30.49                              | 29.71                                | 59.47                              | 166.69                             | 202.78                            | 290.93                             | 231.2                              | 124.2                               | 98.06                                        | 153.84                               | 189.53                                  | 144.48                                  |
| Serie<br>Betania<br>C.P. | 1999       | 248.16                             | 348.06                               | 211.37                             | 330.43                             | 258.55                            | 209.89                             | 155.66                             | 151.04                              | 156.84                                       | 146.62                               | 170.87                                  | 324.28                                  |
| Serie<br>Betania<br>C.P. | 2000       | 185.44                             | 269.29                               | 282.77                             | 228.93                             | 367.28                            | 162.87                             | 111.05                             | 190.25                              | 126.66                                       | 104.41                               | 150.23                                  | 110.95                                  |
| Serie<br>Betania<br>C.P. | 2001       | 85.61                              | 82.51                                | 154.04                             | 126.45                             | 180.83                            | 246.31                             | 108.48                             | 202.26                              | 138.22                                       | 58.2                                 | 140.56                                  | 162.46                                  |
| Serie<br>Betania<br>C.P. | 2002       | 66.13                              | 44.67                                | 144.04                             | 184.19                             | 183.5                             | 365.47                             | 211                                | 217.42                              | 90.8                                         | 123.89                               | 126.04                                  | 117.02                                  |
| Serie<br>Betania<br>C.P. | 2003       | 61.32                              | 68.36                                | 102.58                             | 159.19                             | 209.25                            | 173.01                             | 178.64                             | 125.42                              | 100.3                                        | 150.54                               | 156.02                                  | 156.06                                  |

| <b>Nombre</b>      | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Betania C.P. | 2004       | 131.28                             | 73.44                                | 65.11                              | 184.52                             | 162.62                            | 198.84                             | 135.12                             | 186.05                              | 68.88                                        | 135.76                               | 192.61                                  | 158.95                                  |
| Serie Betania C.P. | 2005       | 93.18                              | 138.45                               | 146.41                             | 184.39                             | 158.01                            | 139.09                             | 132.88                             | 154.75                              | 107.82                                       | 149.05                               | 174.01                                  | 233.47                                  |
| Serie Betania C.P. | 2006       | 199.49                             | 142.03                               | 277.41                             | 298.4                              | 188.93                            | 297.11                             | 276.59                             | 152.26                              | 123.65                                       | 122.4                                | 254.66                                  | 240.68                                  |
| Serie Betania C.P. | 2007       | 81.25                              | 59.3                                 | 125.99                             | 298.25                             | 272.12                            | 425.57                             | 223.7                              | 197.32                              | 117.35                                       | 270.81                               | 278.69                                  | 281.35                                  |
| Serie Betania C.P. | 2008       | 180.68                             | 210.59                               | 241.13                             | 203.77                             | 299.84                            | 306.31                             | 381.38                             | 170.87                              | 160.21                                       | 186.02                               | 311.15                                  | 301.9                                   |
| Serie Betania C.P. | 2009       | 272.69                             | 200.95                               | 255.74                             | 203.95                             | 162.99                            | 234.07                             | 191.42                             | 185.2                               | 101.89                                       | 128.94                               | 123.49                                  | 88.82                                   |
| Serie Betania C.P. | 2010       | 52.56                              | 69.52                                | 81.13                              | 187.34                             | 262.28                            | 202.59                             | 274.07                             | 150.07                              | 108.86                                       | 115.35                               | 320.27                                  | 288.82                                  |
| Serie Betania C.P. | 2011       | 149.95                             | 175.53                               | 254.49                             | 428.38                             | 414.46                            | 336.37                             | 282.03                             | 145.66                              | 154.29                                       | 170.83                               | 330.51                                  | 469.37                                  |
| Serie Betania C.P. | 2012       | 296.77                             | 203.41                               | 229.96                             | 326.15                             | 210.89                            | 193.84                             | 193.83                             | 192.17                              | 110.79                                       | 148.16                               | 134.64                                  | 168.73                                  |
| Serie Betania C.P. | 2013       | 84.14                              | 179.12                               | 175.69                             | 156.69                             | 191.37                            | 164.19                             | 228.27                             | 194.97                              | 134.83                                       | 139.41                               | 190.17                                  | 234.34                                  |
| Serie Betania C.P. | 2014       | 135.56                             | 137.19                               | 287.3                              | 203.51                             | 230.24                            | 245.1                              | 238.68                             | 214.29                              | 118.72                                       | 150.69                               | 167.87                                  | 160.9                                   |
| Serie Betania C.P. | 2015       | 94.29                              | 150.28                               | 188.56                             | 202.64                             | 153.43                            | 394.16                             | 185.5                              | 155.18                              | 85.49                                        | 93.86                                | 130.9                                   | 74.62                                   |

| <b>Nombre</b>      | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Betania C.P. | 2016       | 65.2                               | 85.74                                | 145.43                             | 207.58                             | 221.56                            | 234.16                             | 227.2                              | 159.08                              | 151.3                                        | 160.47                               | 213.46                                  | 184.69                                  |
| Serie Betania C.P. | 2017       | 257.42                             | 143.1                                | 337.01                             | 219.43                             | 278.26                            | 189.22                             | 197.26                             | 135.11                              | 95.92                                        | 110.04                               | 182.86                                  | 133.5                                   |
| Serie El Quimbo    | 1961       | 126.35                             | 128.92                               | 180.76                             | 271.9                              | 236.57                            | 340.79                             | 399.17                             | 260.5                               | 157.29                                       | 198.06                               | 252.38                                  | 145.58                                  |
| Serie El Quimbo    | 1962       | 110.14                             | 124.55                               | 148.2                              | 160.49                             | 317.29                            | 490.6                              | 473.1                              | 377.95                              | 195.41                                       | 241.46                               | 206.51                                  | 158.28                                  |
| Serie El Quimbo    | 1963       | 140.42                             | 184.62                               | 149.02                             | 229.53                             | 262.43                            | 254.99                             | 289.92                             | 274.83                              | 163.96                                       | 140.1                                | 224.94                                  | 159.88                                  |
| Serie El Quimbo    | 1964       | 90.62                              | 85.53                                | 88.95                              | 183.99                             | 211.03                            | 389.24                             | 336.62                             | 291.48                              | 220.83                                       | 159.31                               | 170.23                                  | 140.33                                  |
| Serie El Quimbo    | 1965       | 123.26                             | 64.27                                | 150.51                             | 240.74                             | 288.07                            | 328.59                             | 358.14                             | 299.65                              | 218.88                                       | 206.02                               | 232.18                                  | 191.71                                  |
| Serie El Quimbo    | 1966       | 136.95                             | 94.85                                | 199.09                             | 152.88                             | 166.45                            | 146.34                             | 355.42                             | 275.69                              | 189.73                                       | 172.35                               | 188.87                                  | 251.4                                   |
| Serie El Quimbo    | 1967       | 142.07                             | 169.82                               | 177.82                             | 168.29                             | 226.39                            | 458.21                             | 408.29                             | 308.35                              | 181.87                                       | 194.11                               | 226.04                                  | 166.32                                  |
| Serie El Quimbo    | 1968       | 173.09                             | 156.85                               | 260.31                             | 174.94                             | 269.37                            | 449.29                             | 525.46                             | 390.87                              | 287.39                                       | 240.1                                | 217.79                                  | 182.17                                  |
| Serie El Quimbo    | 1969       | 169.11                             | 181.6                                | 151.96                             | 297.01                             | 265.93                            | 342.16                             | 293.05                             | 320.59                              | 149.51                                       | 239.94                               | 218.21                                  | 197.87                                  |
| Serie El Quimbo    | 1970       | 135.81                             | 139.26                               | 222.95                             | 184.37                             | 262.36                            | 352.18                             | 300.8                              | 320.15                              | 296.72                                       | 251.27                               | 252.75                                  | 173.52                                  |
| Serie El Quimbo    | 1971       | 228.04                             | 222.32                               | 238.19                             | 285.99                             | 279.6                             | 254.38                             | 477.24                             | 280.65                              | 244.65                                       | 247.49                               | 248.35                                  | 181.53                                  |
| Serie El Quimbo    | 1972       | 247.59                             | 142.72                               | 184.27                             | 198.07                             | 332.15                            | 281.02                             | 531.46                             | 279.27                              | 275.58                                       | 181.16                               | 255.13                                  | 175.69                                  |
| Serie El Quimbo    | 1973       | 100.28                             | 103.37                               | 119.49                             | 120.35                             | 184.52                            | 190.39                             | 297.2                              | 300.09                              | 257.35                                       | 170.96                               | 179.46                                  | 193.65                                  |
| Serie El Quimbo    | 1974       | 142.49                             | 257.5                                | 201.89                             | 220.43                             | 221.4                             | 273.06                             | 396.5                              | 304.04                              | 232.96                                       | 235.16                               | 308.52                                  | 172.28                                  |

| <b>Nombre</b>   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie El Quimbo | 1975       | 147.23                             | 196.17                               | 230.67                             | 197.24                             | 248.75                            | 408.56                             | 304.46                             | 318.53                              | 256.46                                       | 227.88                               | 283.36                                  | 268.15                                  |
| Serie El Quimbo | 1976       | 148.27                             | 166.1                                | 316.72                             | 339.44                             | 460.57                            | 479.52                             | 626.82                             | 408.14                              | 301.07                                       | 213.28                               | 218.09                                  | 182.1                                   |
| Serie El Quimbo | 1977       | 88.76                              | 104.15                               | 129.23                             | 202.89                             | 271.06                            | 302.85                             | 344                                | 258.63                              | 346.74                                       | 281.05                               | 243.87                                  | 141.74                                  |
| Serie El Quimbo | 1978       | 114.32                             | 112.24                               | 146.08                             | 299.86                             | 205.27                            | 302.68                             | 302.57                             | 283.27                              | 203.02                                       | 196.12                               | 152.73                                  | 155.15                                  |
| Serie El Quimbo | 1979       | 89.36                              | 75.27                                | 168.37                             | 244.02                             | 255.35                            | 335.43                             | 324.4                              | 223.93                              | 203.42                                       | 174.83                               | 232.33                                  | 194.92                                  |
| Serie El Quimbo | 1980       | 146.12                             | 123.62                               | 172.63                             | 279.45                             | 285.87                            | 367.29                             | 329.92                             | 264.56                              | 212.7                                        | 246.13                               | 156.7                                   | 120.93                                  |
| Serie El Quimbo | 1981       | 92.28                              | 147.61                               | 161.71                             | 241.84                             | 302.56                            | 275.16                             | 361.11                             | 191.1                               | 212.53                                       | 192.53                               | 236.27                                  | 175.59                                  |
| Serie El Quimbo | 1982       | 225.41                             | 185.11                               | 225.12                             | 257.41                             | 270.67                            | 267.56                             | 423.8                              | 355.1                               | 290.88                                       | 227.43                               | 196.19                                  | 213.81                                  |
| Serie El Quimbo | 1983       | 198.32                             | 220.91                               | 237.24                             | 335.12                             | 346.91                            | 250.62                             | 288.33                             | 349.93                              | 201.46                                       | 236.81                               | 198.45                                  | 204.26                                  |
| Serie El Quimbo | 1984       | 226.08                             | 230.92                               | 150.64                             | 221.02                             | 245.13                            | 336.43                             | 348.73                             | 274.76                              | 190.38                                       | 274.96                               | 280.85                                  | 188.01                                  |
| Serie El Quimbo | 1985       | 129.45                             | 97.37                                | 103.86                             | 144.61                             | 240.3                             | 415.84                             | 363.15                             | 351.62                              | 216.74                                       | 185.47                               | 188.12                                  | 120.38                                  |
| Serie El Quimbo | 1986       | 132.67                             | 163.43                               | 215.16                             | 216.47                             | 216.77                            | 425.88                             | 575.99                             | 274.29                              | 275.26                                       | 343.23                               | 255.28                                  | 180.67                                  |
| Serie El Quimbo | 1987       | 143.81                             | 161.12                               | 138.85                             | 271.98                             | 293.12                            | 313.55                             | 355.46                             | 400.01                              | 192.38                                       | 248.76                               | 164.9                                   | 152.58                                  |
| Serie El Quimbo | 1988       | 99.7                               | 131.23                               | 106.98                             | 161.36                             | 205.44                            | 365.74                             | 410.15                             | 211.67                              | 181.54                                       | 180.09                               | 319.15                                  | 205.53                                  |
| Serie El Quimbo | 1989       | 207.46                             | 195.56                               | 296.02                             | 214.31                             | 345.53                            | 434.52                             | 465.24                             | 279.89                              | 214.24                                       | 254.18                               | 254.23                                  | 135.8                                   |
| Serie El Quimbo | 1990       | 151.27                             | 187.77                               | 223.94                             | 229.9                              | 338.95                            | 439.31                             | 382.15                             | 328.63                              | 232.7                                        | 190.25                               | 189.83                                  | 185.03                                  |
| Serie El Quimbo | 1991       | 111.24                             | 113.44                               | 138.97                             | 169.42                             | 191.93                            | 298.87                             | 508.09                             | 439.07                              | 319.39                                       | 175.83                               | 229.5                                   | 150.75                                  |

| <b>Nombre</b>   | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie El Quimbo | 1992       | 122.32                             | 126.25                               | 125.77                             | 202.03                             | 153.95                            | 229.64                             | 369.22                             | 340.2                               | 173.3                                        | 142.98                               | 139.43                                  | 136.78                                  |
| Serie El Quimbo | 1993       | 109.01                             | 121.27                               | 220.7                              | 223.24                             | 251.74                            | 401.98                             | 365.67                             | 294.32                              | 209.41                                       | 171.62                               | 238.46                                  | 205.23                                  |
| Serie El Quimbo | 1994       | 153.74                             | 169.1                                | 226.79                             | 383.69                             | 389.08                            | 466.6                              | 392.35                             | 361.77                              | 257.26                                       | 214.92                               | 210.35                                  | 193.67                                  |
| Serie El Quimbo | 1995       | 118.96                             | 95.21                                | 158.01                             | 230.96                             | 251.64                            | 267.02                             | 272.37                             | 155.13                              | 155.11                                       | 160.38                               | 174.33                                  | 119.97                                  |
| Serie El Quimbo | 1996       | 134.48                             | 219.8                                | 206.77                             | 186.47                             | 262.11                            | 269.77                             | 378.08                             | 231.81                              | 191.18                                       | 250.78                               | 155.15                                  | 167.09                                  |
| Serie El Quimbo | 1997       | 201.92                             | 210.33                               | 174.33                             | 178.95                             | 397.48                            | 229.19                             | 474.57                             | 300.44                              | 153.07                                       | 125.54                               | 137.09                                  | 103.61                                  |
| Serie El Quimbo | 1998       | 67.74                              | 132.72                               | 111.9                              | 179.68                             | 190.08                            | 418.97                             | 368.11                             | 231.96                              | 158.69                                       | 161.97                               | 203.58                                  | 150.99                                  |
| Serie El Quimbo | 1999       | 240.06                             | 292.54                               | 176.94                             | 366.53                             | 269.82                            | 294.36                             | 262.84                             | 261.44                              | 215.61                                       | 189.09                               | 194.23                                  | 234.73                                  |
| Serie El Quimbo | 2000       | 162.03                             | 173.51                               | 217.74                             | 204.66                             | 480.5                             | 340.7                              | 288.15                             | 357.2                               | 244.48                                       | 235.54                               | 218.05                                  | 174.33                                  |
| Serie El Quimbo | 2001       | 127.69                             | 123.46                               | 178.34                             | 224.55                             | 238.04                            | 398.06                             | 342.17                             | 331.94                              | 219.01                                       | 177.14                               | 184.75                                  | 216.6                                   |
| Serie El Quimbo | 2002       | 115.83                             | 102.13                               | 167.12                             | 231.5                              | 337.16                            | 384.72                             | 369.18                             | 361.8                               | 208.83                                       | 183.05                               | 204.9                                   | 171.66                                  |
| Serie El Quimbo | 2003       | 91.44                              | 113.74                               | 148.72                             | 162.38                             | 289.82                            | 216.26                             | 305.5                              | 205.96                              | 185.07                                       | 216.85                               | 188.96                                  | 172.68                                  |
| Serie El Quimbo | 2004       | 121.99                             | 88.35                                | 146.05                             | 233.22                             | 255.72                            | 462.29                             | 328.2                              | 335.47                              | 238.51                                       | 190.83                               | 207.93                                  | 187.73                                  |
| Serie El Quimbo | 2005       | 144.73                             | 234.98                               | 160.08                             | 334.22                             | 268.09                            | 360.62                             | 308.37                             | 297.29                              | 239.8                                        | 236.05                               | 256                                     | 227.16                                  |
| Serie El Quimbo | 2006       | 196.14                             | 169.35                               | 266.23                             | 265.18                             | 234.89                            | 387.83                             | 342.69                             | 233.49                              | 170.54                                       | 189.62                               | 275.03                                  | 245.94                                  |
| Serie El Quimbo | 2007       | 137.24                             | 100.34                               | 186.6                              | 206.16                             | 291.73                            | 575.95                             | 221.92                             | 243.14                              | 184.19                                       | 255.27                               | 251.04                                  | 227.04                                  |
| Serie El Quimbo | 2008       | 156.8                              | 219.14                               | 199.95                             | 234.32                             | 248.93                            | 342.88                             | 394.22                             | 238.84                              | 203.41                                       | 214.36                               | 243.15                                  | 255.27                                  |

| Nombre          | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|-----------------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Serie El Quimbo | 2009 | 235.93                    | 273.11                      | 280.37                    | 251.41                    | 219.15                   | 289.02                    | 391.49                    | 292.11                     | 184.51                             | 157.74                      | 118.38                         | 94.25                          |
| Serie El Quimbo | 2010 | 65.28                     | 86.44                       | 106.62                    | 275.68                    | 218.65                   | 272.25                    | 262.49                    | 170.65                     | 126.03                             | 141.68                      | 232.51                         | 144.74                         |
| Serie El Quimbo | 2011 | 115.9                     | 129.12                      | 177.98                    | 275.03                    | 384.25                   | 318.9                     | 409.64                    | 172.08                     | 223.06                             | 195.17                      | 234.99                         | 371.56                         |
| Serie El Quimbo | 2012 | 220.16                    | 223.38                      | 328.8                     | 289.21                    | 252.25                   | 267.22                    | 277.09                    | 266.1                      | 197.47                             | 197.18                      | 139.94                         | 150.14                         |
| Serie El Quimbo | 2013 | 79.08                     | 164.73                      | 154.65                    | 151.11                    | 238.63                   | 249.33                    | 405.82                    | 306.67                     | 203.53                             | 168.27                      | 165.33                         | 197.96                         |
| Serie El Quimbo | 2014 | 145.62                    | 119.9                       | 200.23                    | 196.45                    | 294.59                   | 388.47                    | 507.87                    | 358.57                     | 236.67                             | 229.53                      | 215.7                          | 178.95                         |
| Serie El Quimbo | 2015 | 131                       | 201.51                      | 159.81                    | 206.45                    | 225.02                   | 545.01                    | 447.93                    | 321.99                     | 176.87                             | 150                         | 150.12                         | 103.94                         |
| Serie El Quimbo | 2016 | 68.82                     | 123.76                      | 179.61                    | 236.33                    | 280.6                    | 423.09                    | 454.63                    | 245.34                     | 269.32                             | 171.11                      | 199.85                         | 151.01                         |
| Serie El Quimbo | 2017 | 270.98                    | 112.12                      | 263.28                    | 307.6                     | 355.66                   | 340.26                    | 408.31                    | 273.17                     | 189.53                             | 192.72                      | 206.1                          | 142.98                         |

#### Formato 5. Embalses

| Nombre    | Mínimi Técnico (Mm3) | Máximo Técnico (Mm3) |
|-----------|----------------------|----------------------|
| Sisga     | 0                    | 91.66                |
| Tomine    | 0                    | 619.55               |
| Neusa     | 0                    | 114.68               |
| Chuza     | 10.1                 | 225.29               |
| Muna      | 0.05                 | 12.69                |
| Guavio    | 17.71                | 782.05               |
| Betania   | 444.07               | 1200.05              |
| El Quimbo | 445.44               | 2805.7               |

**Formato 6. Filtraciones**

| Nombre                              | m3/s |
|-------------------------------------|------|
| Rio Bogota entre Espino y Alicachin | 1    |

**Formato 7. Curvas de Operación Embalses**

| Nombre | Mes | Volumen Espera (Mm3) | Curva Guía Mínima (Mm3) | Curva Guía Máxima (Mm3) |
|--------|-----|----------------------|-------------------------|-------------------------|
| Sisga  | 1   |                      | 23                      |                         |
| Sisga  | 2   |                      | 19                      |                         |
| Sisga  | 3   |                      | 18                      |                         |
| Sisga  | 4   |                      | 18                      |                         |
| Sisga  | 5   |                      | 18                      |                         |
| Sisga  | 6   |                      | 20                      |                         |
| Sisga  | 7   |                      | 25                      |                         |
| Sisga  | 8   |                      | 26                      |                         |
| Sisga  | 9   |                      | 27                      |                         |
| Sisga  | 10  |                      | 27                      |                         |
| Sisga  | 11  |                      | 31                      |                         |
| Sisga  | 12  |                      | 26                      |                         |
| Tomine | 1   |                      | 70                      |                         |
| Tomine | 2   |                      | 40                      |                         |
| Tomine | 3   |                      | 30                      |                         |
| Tomine | 4   |                      | 30                      |                         |
| Tomine | 5   |                      | 30                      |                         |
| Tomine | 6   |                      | 50                      |                         |
| Tomine | 7   |                      | 80                      |                         |
| Tomine | 8   |                      | 100                     |                         |

| <b>Nombre</b> | <b>Mes</b> | <b>Volumen Espera (Mm3)</b> | <b>Curva Guía Mínima (Mm3)</b> | <b>Curva Guía Máxima (Mm3)</b> |
|---------------|------------|-----------------------------|--------------------------------|--------------------------------|
| Tomine        | 9          |                             | 110                            |                                |
| Tomine        | 10         |                             | 110                            |                                |
| Tomine        | 11         |                             | 120                            |                                |
| Tomine        | 12         |                             | 90                             |                                |
| Neusa         | 1          |                             | 57                             |                                |
| Neusa         | 2          |                             | 49                             |                                |
| Neusa         | 3          |                             | 42                             |                                |
| Neusa         | 4          |                             | 42                             |                                |
| Neusa         | 5          |                             | 44                             |                                |
| Neusa         | 6          |                             | 51                             |                                |
| Neusa         | 7          |                             | 62                             |                                |
| Neusa         | 8          |                             | 66                             |                                |
| Neusa         | 9          |                             | 67                             |                                |
| Neusa         | 10         |                             | 67                             |                                |
| Neusa         | 11         |                             | 70                             |                                |
| Neusa         | 12         |                             | 64                             |                                |
| Chuza         | 1          |                             | 100                            |                                |
| Chuza         | 2          |                             | 70                             |                                |
| Chuza         | 3          |                             | 45                             |                                |
| Chuza         | 4          |                             | 40                             |                                |
| Chuza         | 5          |                             | 55                             |                                |
| Chuza         | 6          |                             | 90                             |                                |
| Chuza         | 7          |                             | 120                            |                                |
| Chuza         | 8          |                             | 140                            |                                |
| Chuza         | 9          |                             | 150                            |                                |
| Chuza         | 10         |                             | 160                            |                                |
| Chuza         | 11         |                             | 145                            |                                |
| Chuza         | 12         |                             | 130                            |                                |

**Formato 8. Capacidad Arcos de Descarga**

| <b>Nombre</b>                                               | <b>Flujo Mínimo (m3/s)</b> | <b>Flujo Máximo (m3/s)</b> | <b>Fecha Entrada</b> | <b>Fecha Salida</b> |
|-------------------------------------------------------------|----------------------------|----------------------------|----------------------|---------------------|
| Descarga Sisga                                              | 0                          | 12                         | 01/02/2008           | 01/12/2100          |
| Descarga Tomine                                             | 0                          | 15                         | 01/10/2004           | 01/12/2100          |
| Descarga Neusa                                              | 0.5                        | 4.5                        | 01/02/2008           | 01/12/2100          |
| Descarga Chuza                                              | 0                          | 13.5                       | 01/10/2004           | 01/12/2100          |
| Desviacion Rio Blanco                                       | 0                          | 8                          | 01/01/2001           | 01/12/2100          |
| Tunel Chuza                                                 | 0                          | 24                         | 01/01/2001           | 01/12/2100          |
| Compuerta Espino                                            | 0                          | 80                         | 01/04/2007           | 01/12/2100          |
| Sistema Acueducto Bogota (SanRafaelSapoTibitoc)             | 0                          | 60                         | 01/02/2007           | 01/12/2100          |
| Rio Bogota hasta Achury                                     | 0                          | 40                         | 01/04/2007           | 01/12/2100          |
| Rio Bogota entre Achury y Espino                            | 0                          | 80                         | 01/04/2007           | 01/12/2100          |
| Rio Bogota entre Espino y Alicachin                         | 0                          | 180                        | 01/04/2007           | 01/12/2100          |
| Descarga Rio Bogota entre Espino y Alicachin a Embalse Muna | 0                          | 60.5                       | 01/04/1985           | 01/12/2100          |

**Formato 9. Arco de Bombeo**

| <b>Nombre</b> | <b>Flujo Mínimo (m3/s)</b> | <b>Flujo Máximo (m3/s)</b> | <b>Fecha Entrada</b> | <b>Fecha Salida</b> |
|---------------|----------------------------|----------------------------|----------------------|---------------------|
| Bombeo Tomine | 0                          | 16                         | 01/12/1982           | 01/12/2100          |

**Formato 10. Capacidad Máxima Arco Generación**

| <b>Nombre</b>              | <b>Flujo Mínimo (m3/s)</b> | <b>Flujo Máximo (m3/s)</b> |
|----------------------------|----------------------------|----------------------------|
| Arco de Generacion Paraiso | 0                          | 70                         |

| Nombre                       | Flujo Mínimo (m3/s) | Flujo Máximo (m3/s) |
|------------------------------|---------------------|---------------------|
| Arco de Generacion La Guaca  | 0                   | 70                  |
| Arco de Generacion Guavio    | 0                   | 202.4               |
| Arco de Generacion Betania   | 112.2               | 975                 |
| Arco de Generacion El Quimbo | 70.83               | 375                 |

### Formato 11. Descarga Máxima Embalse Bogotá

| Nombre | Descarga Máxima (m3/s) |
|--------|------------------------|
| Tomine | 15                     |
| Sisga  | 12                     |
| Neusa  | 4.5                    |
| Chuza  | 13.5                   |

### Formato 12. Capacidad Túneles

Formato No Registrado

### Formato 13. Demanda Acueducto y Riego

| Nombre                                          | Año T (m3/s) | Año T+1 (m3/s) | Año T+2 (m3/s) | Año T+3 (m3/s) | Año T+4 (m3/s) | Año T+5 (m3/s) | Factor Recuperación |
|-------------------------------------------------|--------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Sistema Acueducto Bogota (SanRafaelSapoTibitoc) |              |                |                |                | 17.53          |                | 85                  |
| Riego Rio Bogota hasta Achury                   |              |                |                |                | 0.26           |                | 20                  |

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

| Nombre       | Combustible           | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|--------------|-----------------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| Cartagena 1  | FO No.6 o equivalente | 8760            | 279664.16                | 279664.16            | 252599.89              | 279664.16            | 270642.74            | 279664.16           | 270642.74            | 279664.16            | 279664.16             | 270642.74                 | 279664.16              | 270642.74                |
| Cartagena 2  | FO No.6 o equivalente | 8760            | 411804.57                | 411804.57            | 371952.52              | 411804.57            | 398520.55            | 411804.57           | 398520.55            | 411804.57            | 411804.57             | 398520.55                 | 411804.57              | 398520.55                |
| Cartagena 3  | FO No.6 o equivalente | 8760            | 474428.1                 | 474428.1             | 428515.7               | 474428.1             | 459123.97            | 474428.1            | 459123.97            | 474428.1             | 474428.1              | 459123.97                 | 474428.1               | 459123.97                |
| Termozi pa 2 | Carbón                | 8760            | 252945.77                | 252945.77            | 228467.15              | 252945.77            | 244786.23            | 252945.77           | 244786.23            | 252945.77            | 252945.77             | 244786.23                 | 252945.77              | 244786.23                |
| Termozi pa 3 | Carbón                | 8760            | 445307.61                | 445307.61            | 402213.32              | 445307.61            | 430942.85            | 445307.61           | 430942.85            | 445307.61            | 445307.61             | 430942.85                 | 445307.61              | 430942.85                |
| Termozi pa 4 | Carbón                | 8760            | 560048.87                | 560048.87            | 505850.59              | 560048.87            | 541982.77            | 560048.87           | 541982.77            | 560048.87            | 560048.87             | 541982.77                 | 560048.87              | 541982.77                |
| Termozi pa 5 | Carbón                | 8760            | 506137.81                | 506137.81            | 457156.73              | 506137.81            | 489810.78            | 506137.81           | 489810.78            | 506137.81            | 506137.81             | 489810.78                 | 506137.81              | 489810.78                |

**Formato 17. Almacenamiento Combustible**

| Nombre      | Combustible                 | Capacidad Almacenamiento | Cantidad Almacenada (MBTU) |
|-------------|-----------------------------|--------------------------|----------------------------|
| Cartagena 1 | FUEL OIL No.6 o equivalente | 23290.15                 | 0                          |
| Cartagena 2 | FUEL OIL No.6 o equivalente | 34097.6                  | 0                          |
| Cartagena 3 | FUEL OIL No.6 o equivalente | 37111.25                 | 0                          |
| Termozipa 2 | Carbon                      | 28106.9                  | 0                          |
| Termozipa 3 | Carbon                      | 43055.52                 | 0                          |
| Termozipa 4 | Carbon                      | 45924.24                 | 0                          |
| Termozipa 5 | Carbon                      | 52913.34                 | 0                          |

#### Formato 18. Energía Contratada

Formato No Registrado

#### Formato 19. Plantas Menores

| Nombre       | Capacidad Efectiva Neta (MW) | Disponibilidad (%) |
|--------------|------------------------------|--------------------|
| Charquito    | 19.4                         | 0                  |
| Tequendama 1 | 14.2                         | 0                  |
| Tequendama 2 | 14.2                         | 0                  |
| Tequendama 3 | 14.2                         | 0                  |
| Tequendama 4 | 14.2                         | 0                  |
| El Limonar   | 18                           | 0                  |
| Laguneta     | 18                           | 0                  |

#### Formato 20. Plantas Eólicas

Formato No Registrado

#### Formato 21. Serie Histórica de Velocidad de Viento

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

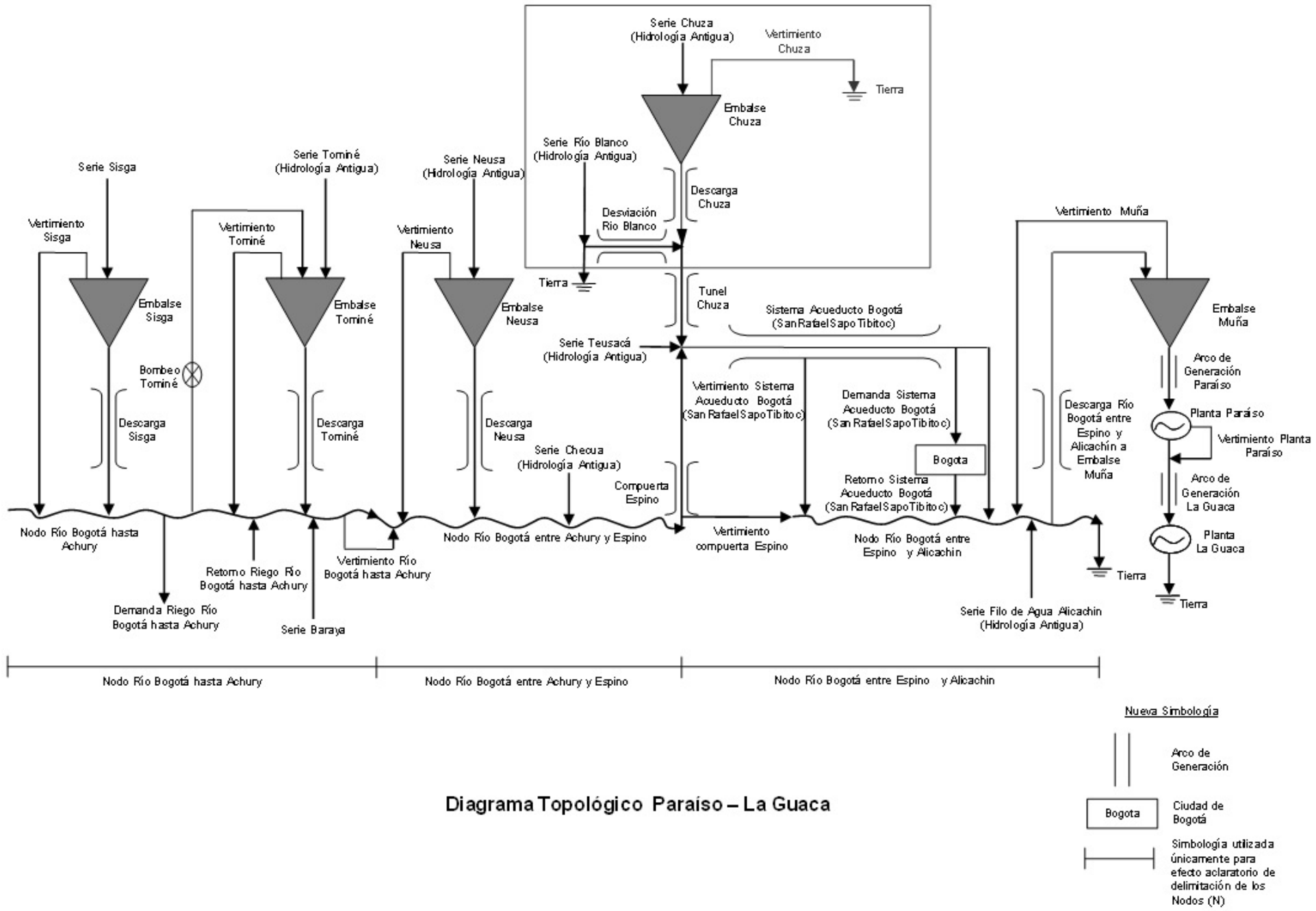
**Formato 24. Plantas Solares Fotovoltaicas**

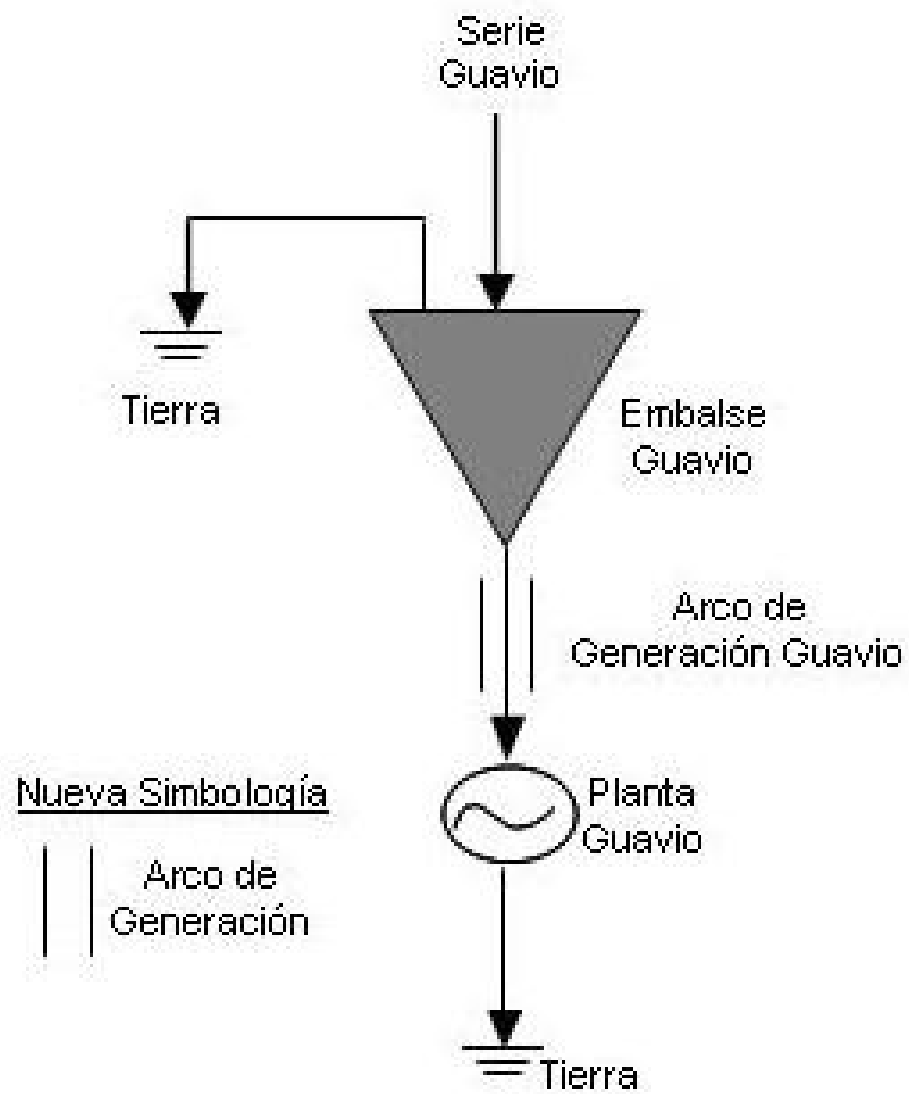
| Nombre        | CEN   | CTESA  | CTESB   | CTESC  | CTESD   | KC     | KINC   | IHF |
|---------------|-------|--------|---------|--------|---------|--------|--------|-----|
| El Paso Solar | 67.92 | 1.1E-5 | -7.0E-4 | 0.0185 | -0.1157 | 0.9139 | 1.1981 | 10  |

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

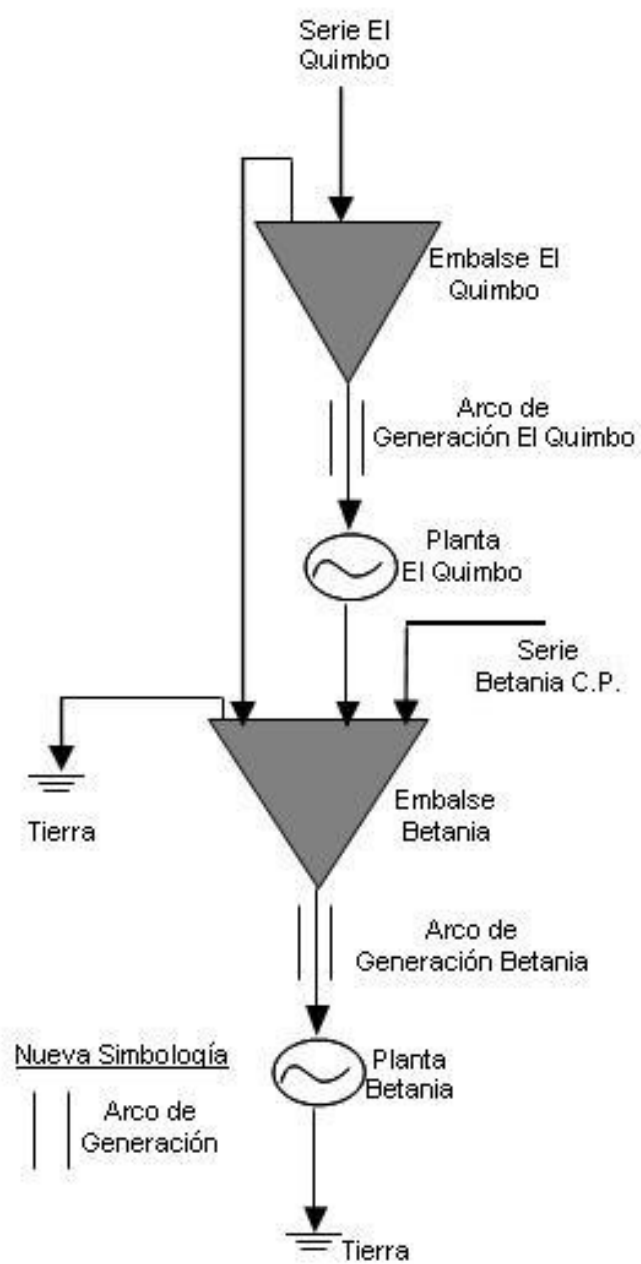
**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Anexos del Agente Emgesa S.A. E.S.P





**Diagrama Topológico Guavio**



**Diagrama Topológico Betania**

## **GECELCA S.A. E.S.P.**

### **Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

### **Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

### **Formato 3. Plantas o Unidades Térmicas**

| <b>Nombre</b> | <b>Capacidad Efectiva Neta (MW)</b> | <b>Eficiencia (MBTU/MWh)</b> | <b>IHF (%)</b> |
|---------------|-------------------------------------|------------------------------|----------------|
| GUAJIRA 1     | 145                                 | 10                           | 15             |
| GUAJIRA 2     | 145                                 | 9.8                          | 35.3305        |

### **Formato 4. Caudal Medio Mensual**

Formato No Registrado

### **Formato 5. Embalses**

Formato No Registrado

### **Formato 6. Filtraciones**

Formato No Registrado

### **Formato 7. Curvas de Operación Embalses**

Formato No Registrado

### **Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

### **Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

| Nombre    | Combustible | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|-----------|-------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| GUAJIRA 1 | CARBÓN      | 8760            | 916980                   | 916980               | 828240                 | 916980               | 887400               | 916980              | 887400               | 916980               | 916980                | 887400                    | 916980                 | 887400                   |
| GUAJIRA 2 | CARBÓN      | 8760            | 683702                   | 683702               | 617537                 | 683702               | 661647               | 683702              | 661647               | 683702               | 683702                | 661647                    | 683702                 | 661647                   |

**Formato 17. Almacenamiento Combustible**

| Nombre    | Combustible | Capacidad Almacenamiento | Cantidad Almacenada (MBTU) |
|-----------|-------------|--------------------------|----------------------------|
| GUAJIRA 1 | CARBÓN      | 135000                   | 0                          |
| GUAJIRA 2 | CARBÓN      | 135000                   | 0                          |

#### Formato 18. Energía Contratada

| Nombre    | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|-----------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| GUAJIRA 1 | 0                        | 0                    | 0                      | 0                    | 0                    | 0                   | 0                    | 0                    | 0                     | 0                         | 0                      | 0                        |
| GUAJIRA 2 | 0                        | 0                    | 0                      | 0                    | 0                    | 0                   | 0                    | 0                    | 0                     | 0                         | 0                      | 0                        |

#### Formato 19. Plantas Menores

Formato No Registrado

#### Formato 20. Plantas Eólicas

Formato No Registrado

#### Formato 21. Serie Histórica de Velocidad de Viento

Formato No Registrado

#### Formato 22. Plantas Geotérmicas

Formato No Registrado

#### Formato 23. Serie Histórica de Temperatura Ambiente

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente GECELCA S.A. E.S.P.**

## **GESTION ENERGETICA S.A E.S.P.**

### **Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

### **Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

### **Formato 3. Plantas o Unidades Térmicas**

| <b>Nombre</b> | <b>Capacidad Efectiva Neta (MW)</b> | <b>Eficiencia (MBTU/MWh)</b> | <b>IHF (%)</b> |
|---------------|-------------------------------------|------------------------------|----------------|
| PAIPA 1       | 36                                  | 11.9554                      | 69.3826        |
| PAIPA 2       | 72                                  | 10.7918                      | 9.4659         |
| PAIPA 3       | 70                                  | 12.2715                      | 23.5124        |

### **Formato 4. Caudal Medio Mensual**

Formato No Registrado

### **Formato 5. Embalses**

Formato No Registrado

### **Formato 6. Filtraciones**

Formato No Registrado

### **Formato 7. Curvas de Operación Embalses**

Formato No Registrado

### **Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

| Nombre  | Combustible | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|---------|-------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| PAIPA 1 | CARBON      | 8760            | 122285                   | 122285               | 110451                 | 122285               | 118341               | 122285              | 118341               | 122285               | 122285                | 118341                    | 122285                 | 118341                   |
| PAIPA 2 | CARBON      | 8760            | 525608                   | 525608               | 474743                 | 525608               | 508653               | 525608              | 508653               | 525608               | 525608                | 508653                    | 525608                 | 508653                   |
| PAIPA 3 | CARBON      | 8760            | 465636                   | 465636               | 420574                 | 465636               | 450615               | 465636              | 450615               | 465636               | 465636                | 450615                    | 465636                 | 450615                   |

**Formato 17. Almacenamiento Combustible**

| Nombre  | Combustible | Capacidad Almacenamiento | Cantidad Almacenada (MBTU) |
|---------|-------------|--------------------------|----------------------------|
| PAIPA 1 | CARBON      | 40395                    | 0                          |
| PAIPA 2 | CARBON      | 80791                    | 0                          |
| PAIPA 3 | CARBON      | 78547                    | 0                          |

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**  
Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**  
Formato No Registrado

**Anexos del Agente GESTION ENERGETICA S.A E.S.P.**

**HIDROELÉCTRICA DEL ALTO PORCE S.A.S. E.S.P.**

**Formato 1. Plantas o Unidades Hidráulicas**

| Nombre           | Capacidad Efectiva Neta (MW) | Eficiencia (MW/m3/s) | IHF (%) |
|------------------|------------------------------|----------------------|---------|
| Escuela de Minas | 55                           | 1.3924               | 15      |

**Formato 2. Topología Plantas Hidráulicas**

| Nombre           | Elemento Clase | Elemento Nombre  | Aportes Río | Aportes Embalse | Aportes Planta | Aportes Otro | Descarga Río | Descarga Embalse | Descargas Planta | Descarga Otro | Vertimientos Río | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|------------------|----------------|------------------|-------------|-----------------|----------------|--------------|--------------|------------------|------------------|---------------|------------------|----------------------|---------------------|------------------|
| Escuela de Minas | P              | Escuela de Minas | Negro       |                 |                |              | Negro        |                  |                  |               | Negro            |                      |                     |                  |

**Formato 3. Plantas o Unidades Térmicas**

Formato No Registrado

**Formato 4. Caudal Medio Mensual**

| Nombre | Año  | Caudal Enero (m3/s) | Caudal Febrero (m3/s) | Caudal Marzo (m3/s) | Caudal Abril (m3/s) | Caudal Mayo(m3/s) | Caudal Junio (m3/s) | Caudal Julio (m3/s) | Caudal Agosto (m3/s) | Caudal Septiembre (m3/s) | Caudal Octubre (m3/s) | Caudal Noviembre (m3/s) | Caudal Diciembre (m3/s) |
|--------|------|---------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| Negro  | 1956 | 42.03               | 36.29                 | 33.48               | 31.15               | 56.58             | 47.77               | 34.28               | 38.22                | 42.03                    | 58.59                 | 51.64                   | 37.96                   |
| Negro  | 1957 | 23.8                | 19.4                  | 14.99               | 29.21               | 37.22             | 29.68               | 23.87               | 25.41                | 25.94                    | 31.81                 | 28.14                   | 23.2                    |
| Negro  | 1958 | 13.66               | 12.32                 | 16.79               | 18.46               | 30.08             | 17.73               | 14.12               | 27.47                | 17.86                    | 25.54                 | 23.2                    | 21.07                   |
| Negro  | 1959 | 12.19               | 10.18                 | 11.45               | 15.86               | 24.07             | 24.67               | 20.4                | 23.07                | 38.42                    | 33.02                 | 32.62                   | 19                      |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Negro  | 1960 | 15.26                     | 13.86                       | 16.86                     | 20.46                     | 29.48                    | 27.81                     | 33.55                     | 22.8                       | 36.15                              | 32.62                       | 30.55                          | 35.09                          |
| Negro  | 1961 | 18.93                     | 17.93                       | 17.33                     | 21.2                      | 20.67                    | 26.14                     | 23.4                      | 19.86                      | 36.69                              | 38.16                       | 51.31                          | 30.08                          |
| Negro  | 1962 | 18.13                     | 15.52                       | 23.6                      | 29.34                     | 55.72                    | 55.05                     | 33.82                     | 36.69                      | 37.89                              | 52.31                       | 43.7                           | 27.61                          |
| Negro  | 1963 | 19.6                      | 26.61                       | 28.61                     | 37.96                     | 40.03                    | 27.34                     | 29.34                     | 29.74                      | 32.28                              | 40.16                       | 49.51                          | 23.94                          |
| Negro  | 1964 | 16.93                     | 13.05                       | 12.92                     | 26.41                     | 23.07                    | 34.75                     | 35.55                     | 34.95                      | 38.76                              | 36.89                       | 39.63                          | 27.34                          |
| Negro  | 1965 | 19.73                     | 16.59                       | 15.52                     | 21.27                     | 32.35                    | 22.27                     | 19.13                     | 28.68                      | 41.03                              | 42.7                        | 49.17                          | 29.21                          |
| Negro  | 1966 | 18.93                     | 15.52                       | 15.32                     | 18.86                     | 22.67                    | 35.29                     | 28.94                     | 36.62                      | 31.81                              | 35.55                       | 44.63                          | 42.56                          |
| Negro  | 1967 | 26.67                     | 18.73                       | 20.33                     | 36.09                     | 42.23                    | 45.9                      | 31.35                     | 28.88                      | 38.56                              | 31.21                       | 30.68                          | 21.67                          |
| Negro  | 1968 | 16.13                     | 14.39                       | 17.33                     | 30.81                     | 27.88                    | 42.16                     | 43.03                     | 29.88                      | 47.5                               | 46.5                        | 44.1                           | 29.81                          |
| Negro  | 1969 | 24                        | 14.39                       | 13.92                     | 34.28                     | 35.29                    | 27.21                     | 12.99                     | 32.01                      | 37.96                              | 54.78                       | 43.9                           | 28.01                          |
| Negro  | 1970 | 22.6                      | 15.19                       | 16.13                     | 21.33                     | 49.17                    | 33.02                     | 31.21                     | 26.81                      | 38.42                              | 60.59                       | 69.47                          | 39.49                          |
| Negro  | 1971 | 33.62                     | 27.94                       | 35.49                     | 39.49                     | 63.26                    | 52.51                     | 59.05                     | 70.94                      | 62.93                              | 50.17                       | 39.49                          | 29.21                          |
| Negro  | 1972 | 24.6                      | 20.29                       | 21.04                     | 28.62                     | 62.4                     | 43.87                     | 30.68                     | 28.81                      | 28.9                               | 33.58                       | 35.36                          | 24.41                          |
| Negro  | 1973 | 17.2                      | 13.65                       | 14.58                     | 16.73                     | 21.97                    | 34.04                     | 22.63                     | 35.17                      | 68.58                              | 47.06                       | 38.35                          | 47.24                          |
| Negro  | 1974 | 33.48                     | 30.68                       | 26                        | 37.6                      | 39.38                    | 40.97                     | 35.36                     | 40.51                      | 60.53                              | 63.06                       | 55.1                           | 31.52                          |
| Negro  | 1975 | 21.41                     | 22.72                       | 22.07                     | 23                        | 31.61                    | 35.45                     | 47.24                     | 44.25                      | 51.74                              | 50.51                       | 62.59                          | 52.67                          |
| Negro  | 1976 | 31.61                     | 24.41                       | 20.67                     | 42.84                     | 48.46                    | 41.82                     | 22.16                     | 18.23                      | 18.7                               | 37.88                       | 37.04                          | 19.92                          |
| Negro  | 1977 | 14.4                      | 15.24                       | 13.09                     | 16.55                     | 22.25                    | 29                        | 23.38                     | 34.04                      | 26.56                              | 39.57                       | 37.51                          | 22.35                          |
| Negro  | 1978 | 21.21                     | 19.09                       | 27.78                     | 62.42                     | 49.74                    | 44.36                     | 43.23                     | 26.07                      | 29.38                              | 37.48                       | 35.17                          | 29.64                          |
| Negro  | 1979 | 20.4                      | 18.38                       | 20.84                     | 27.95                     | 38.12                    | 39.22                     | 23.64                     | 28.75                      | 41.29                              | 43.24                       | 54.27                          | 35.33                          |
| Negro  | 1980 | 22.08                     | 18.42                       | 15.54                     | 19.55                     | 22.77                    | 26.94                     | 19.98                     | 20.77                      | 20.34                              | 39.92                       | 39.08                          | 28.84                          |
| Negro  | 1981 | 17.08                     | 14.06                       | 16.18                     | 25.79                     | 56.46                    | 58.93                     | 42.28                     | 26.1                       | 44.11                              | 44.98                       | 48.51                          | 32.49                          |
| Negro  | 1982 | 32.21                     | 29.85                       | 25.83                     | 46.44                     | 62.42                    | 30.19                     | 20.52                     | 20.07                      | 21.49                              | 33.14                       | 34.1                           | 21.94                          |
| Negro  | 1983 | 16.23                     | 15.02                       | 15.82                     | 31.16                     | 33                       | 24.79                     | 25.89                     | 22.53                      | 30.99                              | 31.08                       | 25.97                          | 30.09                          |
| Negro  | 1984 | 27.37                     | 20.54                       | 17.49                     | 18.56                     | 37.96                    | 53.93                     | 43.19                     | 36.52                      | 39.87                              | 54.67                       | 53.47                          | 28.97                          |
| Negro  | 1985 | 20.48                     | 18.76                       | 22.57                     | 27.46                     | 49.42                    | 28.46                     | 21.4                      | 47.53                      | 48.13                              | 36.48                       | 38.06                          | 29.14                          |
| Negro  | 1986 | 19.83                     | 23.67                       | 26.29                     | 34.04                     | 30.48                    | 33.63                     | 24.48                     | 23.65                      | 25.31                              | 48.82                       | 35.98                          | 24.03                          |
| Negro  | 1987 | 16.97                     | 15.81                       | 14.9                      | 20.67                     | 35.82                    | 19.74                     | 21.85                     | 30.64                      | 32.72                              | 50.98                       | 41.13                          | 30.77                          |
| Negro  | 1988 | 20.45                     | 19.28                       | 18.74                     | 23.05                     | 26.9                     | 37.14                     | 39.53                     | 53.76                      | 59.88                              | 56.84                       | 68.57                          | 49.67                          |
| Negro  | 1989 | 35.29                     | 26.74                       | 28.29                     | 31.5                      | 39.91                    | 42.58                     | 25.57                     | 32.03                      | 52.32                              | 54.57                       | 43.27                          | 32.21                          |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Negro  | 1990 | 21.95                     | 21.97                       | 18.57                     | 27.45                     | 35.72                    | 31.67                     | 28.42                     | 20.54                      | 30.22                              | 53.77                       | 40.02                          | 28.06                          |
| Negro  | 1991 | 19.36                     | 16.13                       | 18.69                     | 26.74                     | 35.43                    | 32.01                     | 25.12                     | 24                         | 19.72                              | 35.33                       | 27.43                          | 25.36                          |
| Negro  | 1992 | 17.2                      | 14.79                       | 14.54                     | 16.89                     | 25.13                    | 22.05                     | 15.19                     | 21.97                      | 31.37                              | 25.79                       | 23.88                          | 31.63                          |
| Negro  | 1993 | 21.46                     | 15.43                       | 17.31                     | 23.64                     | 39.69                    | 20.77                     | 27.57                     | 27.21                      | 45.08                              | 39.19                       | 47.97                          | 34.33                          |
| Negro  | 1994 | 22.31                     | 19.37                       | 19.38                     | 32.79                     | 35.83                    | 30.06                     | 24.31                     | 20.75                      | 26.25                              | 46.84                       | 43.74                          | 25.15                          |
| Negro  | 1995 | 16.2                      | 13.53                       | 20.9                      | 22.21                     | 38.4                     | 41.6                      | 38.84                     | 58.23                      | 37.04                              | 37.64                       | 30.89                          | 34.69                          |
| Negro  | 1996 | 26.53                     | 23.72                       | 34.85                     | 33.32                     | 57.12                    | 51.72                     | 51.74                     | 37.42                      | 38                                 | 49.92                       | 31.83                          | 26.43                          |
| Negro  | 1997 | 26.14                     | 25.33                       | 25.41                     | 30.99                     | 22.39                    | 39.87                     | 18.78                     | 15.07                      | 17.39                              | 20.1                        | 23.62                          | 15.66                          |
| Negro  | 1998 | 11.04                     | 10.96                       | 11.1                      | 15.06                     | 28.36                    | 27.84                     | 31.06                     | 30.46                      | 46.01                              | 40.52                       | 37.83                          | 48.06                          |
| Negro  | 1999 | 32.94                     | 43.82                       | 54.1                      | 46.17                     | 56.72                    | 48.04                     | 31.79                     | 23.68                      | 55.46                              | 58.53                       | 68.05                          | 72.17                          |
| Negro  | 2000 | 32.03                     | 32.96                       | 33.74                     | 32.45                     | 57.86                    | 70.7                      | 56.85                     | 52.09                      | 70.49                              | 57.76                       | 47.78                          | 28.61                          |
| Negro  | 2001 | 25.53                     | 18.54                       | 23.14                     | 21.25                     | 29.33                    | 29.5                      | 25.89                     | 16.77                      | 22.37                              | 24.04                       | 32.56                          | 27.09                          |
| Negro  | 2002 | 17.01                     | 15.49                       | 16.57                     | 42.1                      | 36.97                    | 36.73                     | 24.02                     | 17.49                      | 20.8                               | 25.2                        | 33.17                          | 23.89                          |
| Negro  | 2003 | 14.26                     | 13.38                       | 19.48                     | 29.04                     | 31.01                    | 51.4                      | 25.2                      | 21.95                      | 25.61                              | 32.01                       | 42                             | 30.33                          |
| Negro  | 2004 | 21.15                     | 18.36                       | 21.95                     | 32.4                      | 44.62                    | 31.56                     | 37.89                     | 26.63                      | 49.75                              | 51.71                       | 71.74                          | 34.02                          |
| Negro  | 2005 | 24.46                     | 20.08                       | 22.92                     | 31.45                     | 56.81                    | 52.13                     | 33.91                     | 23.07                      | 30.81                              | 51.51                       | 56.75                          | 29.51                          |
| Negro  | 2006 | 24.82                     | 21.53                       | 25.12                     | 45.44                     | 67.81                    | 44.31                     | 24.61                     | 27.19                      | 37.7                               | 39.48                       | 56.32                          | 34.1                           |
| Negro  | 2007 | 22.51                     | 18.23                       | 18.6                      | 39.89                     | 63.48                    | 46.07                     | 29.72                     | 37.97                      | 54.15                              | 73.65                       | 55.09                          | 40.75                          |
| Negro  | 2008 | 31.19                     | 37.94                       | 51.54                     | 45.27                     | 72.95                    | 67.18                     | 61.36                     | 71.8                       | 61.66                              | 72.92                       | 84.16                          | 45.71                          |
| Negro  | 2009 | 37.02                     | 33.58                       | 31.9                      | 42.66                     | 50                       | 41.7                      | 35.85                     | 25.44                      | 20.74                              | 30.17                       | 43.58                          | 18.79                          |
| Negro  | 2010 | 14.66                     | 13.49                       | 14.81                     | 21.44                     | 31.89                    | 50.29                     | 64.51                     | 44.26                      | 77.11                              | 75.56                       | 91.09                          | 69.53                          |
| Negro  | 2011 | 36.79                     | 32.36                       | 59.96                     | 133.35                    | 75.12                    | 66.7                      | 55.99                     | 40.08                      | 41.15                              | 62.36                       | 77.15                          | 79.46                          |
| Negro  | 2012 | 41.38                     | 28.9                        | 27.35                     | 70.8                      | 84.61                    | 32.55                     | 29.65                     | 30.01                      | 22.29                              | 39.19                       | 45.65                          | 32.72                          |
| Negro  | 2013 | 19.81                     | 26.42                       | 28.5                      | 22.92                     | 52.92                    | 40.76                     | 27.41                     | 33.85                      | 34.52                              | 46.14                       | 52.48                          | 44.96                          |
| Negro  | 2014 | 26.23                     | 21.73                       | 26.41                     | 21.17                     | 39.95                    | 30.63                     | 20.22                     | 24.1                       | 34.3                               | 44.83                       | 47                             | 29.08                          |
| Negro  | 2015 | 17.83                     | 22.29                       | 17.59                     | 22.45                     | 20.42                    | 17.99                     | 19.59                     | 20.08                      | 18.79                              | 20.66                       | 32.11                          | 14.86                          |
| Negro  | 2016 | 9.96                      | 10.57                       | 9.06                      | 16.88                     | 29.14                    | 21.16                     | 20.29                     | 16.85                      | 47.25                              | 44.05                       | 53.92                          | 37.04                          |
| Negro  | 2017 | 28.83                     | 22.03                       | 50.98                     | 47.88                     | 68.14                    | 48.3                      | 29.75                     | 25.89                      | 39.9                               | 35.79                       | 35.21                          | 30.85                          |
| Negro  | 2018 | 21.79                     | 12.21                       | 17.04                     | 38.89                     | 72.03                    | 37.41                     | 24.88                     | 21.23                      | 32.21                              | 38.06                       | 40.82                          | 22.68                          |

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

| Nombre           | Flujo Mínimo (m3/s) | Flujo Máximo (m3/s) |
|------------------|---------------------|---------------------|
| Escuela de Minas | 4.5                 | 39.5                |

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**  
Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**  
Formato No Registrado

**Anexos del Agente HIDROELÉCTRICA DEL ALTO PORCE S.A.S. E.S.P.**

## **HMV INGENIEROS LIMITADA**

**Formato 1. Plantas o Unidades Hidráulicas**

**Formato 2. Topología Plantas Hidráulicas**

**Formato 3. Plantas o Unidades Térmicas**

**Formato 4. Caudal Medio Mensual**

**Formato 5. Embalses**

**Formato 6. Filtraciones**

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**Formato 16. Suministro Combustible Diferente a Gas**

**Formato 17. Almacenamiento Combustible**

**Formato 18. Energía Contratada**

**Formato 19. Plantas Menores**

| Nombre        | Capacidad Efectiva Neta (MW) | Disponibilidad (%) |
|---------------|------------------------------|--------------------|
| San Bartolomé | 19.9                         | 0                  |
| Oibita        | 19.9                         | 0                  |
| Santa Rosa    | 19.9                         | 0                  |
| Altamira      | 19.9                         | 0                  |
| Macaregua     | 19.9                         | 0                  |
| Oiba          | 5                            | 0                  |

**Formato 20. Plantas Eólicas**

**Formato 21. Serie Histórica de Velocidad de Viento**

**Formato 22. Plantas Geotérmicas**

**Formato 23. Serie Histórica de Temperatura Ambiente**

**Formato 24. Plantas Solares Fotovoltaicas**

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**



## ISAGEN S.A. E.S.P.

### Formato 1. Plantas o Unidades Hidráulicas

| Nombre     | Capacidad Efectiva Neta (MW) | Eficiencia (MW/m3/s) | IHF (%) |
|------------|------------------------------|----------------------|---------|
| San Carlos | 1240                         | 5.3318               | 18.6736 |
| Jaguas     | 170                          | 2.4803               | 6.0171  |
| Miel I     | 396                          | 2.0028               | 20.5691 |
| Sogamoso   | 819                          | 1.3047               | 17.7607 |
| Amoya      | 80                           | 4.8609               | 19.5742 |

### Formato 2. Topología Plantas Hidráulicas

| Nombre     | Elemento<br>o Clase | Elemento<br>o Nombre | Aportes<br>Rio                   | Aportes<br>Embalse    | Aportes<br>Planta | Aportes<br>Otro | Descarga<br>a Rio | Descarga<br>a Embalse | Descargas<br>a Planta | Descarga<br>a Otro | Vertimientos<br>a Rio | Vertimientos<br>a Embalse | Vertimientos<br>a Planta | Vertimiento<br>a Otro |
|------------|---------------------|----------------------|----------------------------------|-----------------------|-------------------|-----------------|-------------------|-----------------------|-----------------------|--------------------|-----------------------|---------------------------|--------------------------|-----------------------|
| San Carlos | E                   | Punchina             | Serie San Carlos+ Menor Calderas | Vertimiento de Playas | Playas            |                 |                   |                       | San Carlos            |                    |                       |                           |                          | Tierra                |
| San Carlos | P                   | San Carlos           |                                  | Punchina              |                   |                 | Tierra            |                       |                       |                    |                       |                           |                          |                       |
| Jaguas     | E                   | San Lorenzo          | Serie San Lorenzo                | Vertimiento del Penol |                   |                 |                   |                       | Jaguas                |                    |                       |                           |                          | Tierra                |
| Jaguas     | P                   | Jaguas               |                                  | San Lorenzo           |                   |                 |                   | Playas                |                       |                    |                       |                           |                          |                       |
| Miel I     | E                   | Guarino              | Serie Guarino Miel I             |                       |                   |                 |                   |                       |                       | AD Guarino         |                       |                           |                          | Tierra                |
| Miel I     | AD                  | Guarino              |                                  | Guarino               |                   |                 |                   | Amani                 |                       |                    |                       |                           |                          |                       |

| Nombre   | Elemento Clase | Elemento Nombre | Aportes Rio        | Aportes Embalse | Aportes Planta | Aportes Otro         | Descarga Rio      | Descarga Embalse | Descargas Planta | Descarga Otro | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|----------|----------------|-----------------|--------------------|-----------------|----------------|----------------------|-------------------|------------------|------------------|---------------|------------------|----------------------|---------------------|------------------|
| Miel I   | E              | Manso           | Serie Manso Miel I |                 |                |                      |                   |                  |                  | AD Manso      |                  |                      |                     | Tierra           |
| Miel I   | AD             | Manso           |                    | Manso           |                |                      |                   | Amani            |                  |               |                  |                      |                     |                  |
| Miel I   | E              | Amani           | Serie Miel I       |                 |                | AD Guarino +AD Manso |                   |                  | Miel I           |               |                  |                      |                     | Tierra           |
| Miel I   | P              | Miel I          |                    | Amani           |                |                      | La Miel (Tierra)  |                  |                  |               |                  |                      |                     |                  |
| Sogamoso | E              | Topocoro        | Serie Sogamoso     |                 |                |                      |                   |                  | Sogamoso         |               |                  |                      |                     | Tierra           |
| Sogamoso | P              | Sogamoso        |                    | Topocoro        |                |                      | Sogamoso (Tierra) |                  |                  |               |                  |                      |                     |                  |
| Amoya    | E              | Amoya           | Serie Amoya        |                 |                |                      |                   |                  | Amoya            | F Amoya       | Tierra           |                      |                     |                  |
| Amoya    | P              | Amoya           |                    | Amoya           |                |                      | Amoya (Tierra)    |                  |                  |               |                  |                      |                     |                  |
| Amoya    | F              | Amoya           |                    | Amoya           |                |                      | Amoya (Tierra)    |                  |                  |               |                  |                      |                     |                  |

### Formato 3. Plantas o Unidades Térmicas

| Nombre      | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|-------------|------------------------------|-----------------------|---------|
| Termocentro | 278.92                       | 7.2567                | 11.8989 |

### Formato 4. Caudal Medio Mensual

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Miel I  | 1963       | 86.63                              | 94.9                                 | 100.41                             | 91.52                              | 97.36                             | 70.84                              | 63.1                               | 70.07                               | 81.49                                        | 92.12                                | 125.83                                  | 91.51                                   |
| Serie Miel I  | 1964       | 74.24                              | 85.74                                | 72.57                              | 90.19                              | 95.82                             | 95.82                              | 76.67                              | 91.88                               | 97.8                                         | 90.88                                | 89.02                                   | 93.18                                   |
| Serie Miel I  | 1965       | 88.07                              | 67.51                                | 64.81                              | 86.02                              | 81.77                             | 37.1                               | 23.15                              | 28                                  | 66.94                                        | 85.37                                | 100.6                                   | 95.99                                   |
| Serie Miel I  | 1966       | 65.68                              | 67.37                                | 65.72                              | 56.97                              | 78.35                             | 87.05                              | 60.35                              | 62.49                               | 75.72                                        | 95.02                                | 107.87                                  | 152.74                                  |
| Serie Miel I  | 1967       | 76.88                              | 83.66                                | 99.99                              | 77.64                              | 92                                | 72.37                              | 39.1                               | 36.71                               | 38.16                                        | 53.35                                | 117.54                                  | 68.25                                   |
| Serie Miel I  | 1968       | 66.46                              | 79.96                                | 71.7                               | 129.38                             | 85.27                             | 80.28                              | 48.61                              | 39.02                               | 73.5                                         | 105.07                               | 95.94                                   | 110.72                                  |
| Serie Miel I  | 1969       | 61.9                               | 69.02                                | 72.07                              | 121.61                             | 91.71                             | 63.91                              | 30.96                              | 51.08                               | 72.69                                        | 121.79                               | 140.45                                  | 123.8                                   |
| Serie Miel I  | 1970       | 77.67                              | 94.81                                | 59.73                              | 101.95                             | 119.2                             | 74.16                              | 57.55                              | 69.66                               | 79.98                                        | 120.16                               | 200.7                                   | 192.92                                  |
| Serie Miel I  | 1971       | 144                                | 145.21                               | 153.43                             | 116.79                             | 165.97                            | 69.81                              | 49.78                              | 87.76                               | 102                                          | 156.07                               | 170.25                                  | 113.27                                  |
| Serie Miel I  | 1972       | 87.82                              | 71.72                                | 62.25                              | 53.95                              | 153.88                            | 87.73                              | 45.41                              | 64.99                               | 60.79                                        | 84.76                                | 109.43                                  | 56.9                                    |
| Serie Miel I  | 1973       | 58.99                              | 41.84                                | 73.13                              | 98.42                              | 63.86                             | 72.8                               | 57.3                               | 106.32                              | 124.22                                       | 164.1                                | 156.98                                  | 154.61                                  |
| Serie Miel I  | 1974       | 89.65                              | 122.14                               | 79.65                              | 92.1                               | 100.85                            | 52.59                              | 29.36                              | 42                                  | 74.71                                        | 120.73                               | 189.26                                  | 93.53                                   |
| Serie Miel I  | 1975       | 50.83                              | 86.47                                | 80.66                              | 93.15                              | 137.4                             | 91.53                              | 98.81                              | 62.49                               | 115.02                                       | 125.75                               | 169.92                                  | 131.78                                  |
| Serie Miel I  | 1976       | 112.3                              | 94.94                                | 102.01                             | 106.2                              | 90.78                             | 50.65                              | 24.86                              | 21.82                               | 20.75                                        | 78.4                                 | 80.25                                   | 48.23                                   |
| Serie Miel I  | 1977       | 41.99                              | 54.33                                | 62.12                              | 57.92                              | 71.07                             | 69.29                              | 47.28                              | 50.43                               | 45.36                                        | 108.97                               | 103.48                                  | 80.39                                   |
| Serie Miel I  | 1978       | 49.6                               | 35.4                                 | 79.04                              | 144.17                             | 110.41                            | 79.73                              | 75.78                              | 37.12                               | 68.23                                        | 132.37                               | 115.56                                  | 109                                     |
| Serie Miel I  | 1979       | 61.49                              | 74.91                                | 87.16                              | 118.76                             | 78.53                             | 71.45                              | 34.34                              | 69.77                               | 111.89                                       | 95.87                                | 134.45                                  | 61.36                                   |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Miel I  | 1980       | 77.71                              | 66.67                                | 52.39                              | 53.51                              | 98.98                             | 61.76                              | 33.72                              | 30.72                               | 56.31                                        | 102.54                               | 172.41                                  | 126.18                                  |
| Serie Miel I  | 1981       | 79.43                              | 127.89                               | 89.37                              | 101.22                             | 128.46                            | 107.77                             | 61.77                              | 57.67                               | 88.22                                        | 103.02                               | 172.99                                  | 154.24                                  |
| Serie Miel I  | 1982       | 66.14                              | 61.86                                | 81.59                              | 92.37                              | 120.48                            | 59.83                              | 29.72                              | 22.01                               | 27.26                                        | 85.27                                | 91.73                                   | 78.15                                   |
| Serie Miel I  | 1983       | 48.85                              | 32.28                                | 50.2                               | 88.94                              | 111.84                            | 102.25                             | 68.95                              | 55.95                               | 79.36                                        | 95.08                                | 101.48                                  | 107.73                                  |
| Serie Miel I  | 1984       | 117.9                              | 135.77                               | 113.13                             | 109.92                             | 122.69                            | 109.9                              | 109.96                             | 85.96                               | 125.05                                       | 164.08                               | 180.34                                  | 144.07                                  |
| Serie Miel I  | 1985       | 63.43                              | 36.09                                | 55.8                               | 87.01                              | 77.8                              | 45.94                              | 28.43                              | 40.91                               | 54.87                                        | 104.6                                | 132.44                                  | 144.79                                  |
| Serie Miel I  | 1986       | 106.29                             | 77.24                                | 87.16                              | 101.86                             | 104.38                            | 56.68                              | 26.77                              | 28.28                               | 31.72                                        | 122.43                               | 106.62                                  | 63.89                                   |
| Serie Miel I  | 1987       | 64.17                              | 61.23                                | 39.37                              | 66.23                              | 89.98                             | 47.43                              | 45.21                              | 59.22                               | 49.28                                        | 94.62                                | 88.9                                    | 65.54                                   |
| Serie Miel I  | 1988       | 63.62                              | 56.18                                | 39.71                              | 97.45                              | 75.68                             | 99.57                              | 42.88                              | 70.77                               | 109.64                                       | 129.67                               | 144.98                                  | 143.04                                  |
| Serie Miel I  | 1989       | 125.08                             | 94.6                                 | 112.97                             | 77.01                              | 75.05                             | 64.18                              | 41.89                              | 40.46                               | 87.26                                        | 112.57                               | 128.23                                  | 86.25                                   |
| Serie Miel I  | 1990       | 77.2                               | 61.34                                | 58.43                              | 97.07                              | 58.45                             | 35.71                              | 35.21                              | 30.02                               | 31.42                                        | 126.9                                | 101.43                                  | 97.36                                   |
| Serie Miel I  | 1991       | 61.47                              | 53.07                                | 54.58                              | 64.36                              | 88.3                              | 66.97                              | 28.7                               | 27.31                               | 33.48                                        | 58.29                                | 103.77                                  | 113.14                                  |
| Serie Miel I  | 1992       | 67.78                              | 48.46                                | 45.07                              | 46.88                              | 104.38                            | 50.32                              | 19.49                              | 22.79                               | 43.07                                        | 38.77                                | 73.2                                    | 96.13                                   |
| Serie Miel I  | 1993       | 84.74                              | 88.21                                | 71.76                              | 73.5                               | 94.62                             | 35.57                              | 23.62                              | 26.41                               | 68.84                                        | 45.75                                | 93.82                                   | 88.11                                   |
| Serie Miel I  | 1994       | 90.88                              | 112.73                               | 144.18                             | 94.61                              | 81.33                             | 42.27                              | 29.71                              | 30.83                               | 36.14                                        | 50.88                                | 97.19                                   | 89.6                                    |
| Serie Miel I  | 1995       | 50.25                              | 35.76                                | 63.03                              | 83.52                              | 108.72                            | 79.62                              | 41.3                               | 62.98                               | 65.19                                        | 77.88                                | 71.61                                   | 107.88                                  |
| Serie Miel I  | 1996       | 110.17                             | 67.97                                | 83.84                              | 84.62                              | 120.41                            | 70.28                              | 49.86                              | 50.39                               | 56.6                                         | 66.04                                | 70.72                                   | 87.28                                   |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Miel I  | 1997       | 55.22                              | 73.11                                | 69.47                              | 81.57                              | 55.87                             | 41.44                              | 27.64                              | 17.83                               | 54.95                                        | 64.98                                | 75.12                                   | 59.77                                   |
| Serie Miel I  | 1998       | 73.07                              | 91.79                                | 73.33                              | 94.12                              | 80.68                             | 36.91                              | 36.34                              | 53.8                                | 73.46                                        | 83.39                                | 110.93                                  | 96.34                                   |
| Serie Miel I  | 1999       | 98.25                              | 158.38                               | 141.77                             | 106.32                             | 92.56                             | 83.88                              | 54.94                              | 48.72                               | 84.65                                        | 119.36                               | 127.61                                  | 187.96                                  |
| Serie Miel I  | 2000       | 88.13                              | 105.57                               | 140.56                             | 116.51                             | 100.16                            | 93.01                              | 54.06                              | 51.45                               | 84.89                                        | 79.76                                | 133.05                                  | 92.42                                   |
| Serie Miel I  | 2001       | 98.37                              | 58.49                                | 67.04                              | 58.41                              | 93.19                             | 62.73                              | 45.64                              | 22.53                               | 41.39                                        | 73.26                                | 126.56                                  | 140.56                                  |
| Serie Miel I  | 2002       | 102.5                              | 80.96                                | 67.33                              | 121.81                             | 71.49                             | 69.24                              | 34.59                              | 22.62                               | 45.94                                        | 86.03                                | 69.41                                   | 86.3                                    |
| Serie Miel I  | 2003       | 48.71                              | 48.26                                | 64.66                              | 76.05                              | 68.56                             | 62.74                              | 35.12                              | 30.75                               | 66.63                                        | 135.93                               | 127.15                                  | 99.65                                   |
| Serie Miel I  | 2004       | 74.21                              | 67.46                                | 87.59                              | 118.23                             | 109.53                            | 47.27                              | 43.72                              | 26.45                               | 54.43                                        | 77.1                                 | 113.13                                  | 116.29                                  |
| Serie Miel I  | 2005       | 114.81                             | 127.12                               | 95.37                              | 79.42                              | 135.52                            | 98.63                              | 54.8                               | 35.91                               | 46.97                                        | 127.62                               | 173.11                                  | 178.49                                  |
| Serie Miel I  | 2006       | 133.31                             | 114.94                               | 122.78                             | 116.19                             | 114.76                            | 88.99                              | 37.53                              | 30.5                                | 58.07                                        | 99.85                                | 143.67                                  | 135.5                                   |
| Serie Miel I  | 2007       | 149.95                             | 54.04                                | 82.56                              | 133.96                             | 140.24                            | 64.21                              | 48.11                              | 47.48                               | 64.52                                        | 116.97                               | 180.42                                  | 141.41                                  |
| Serie Miel I  | 2008       | 111.42                             | 107.48                               | 130.31                             | 107.08                             | 135.42                            | 90.63                              | 61.85                              | 95.05                               | 82.03                                        | 111.86                               | 199.37                                  | 145.09                                  |
| Serie Miel I  | 2009       | 151.71                             | 139.94                               | 171.04                             | 106.46                             | 121.71                            | 91.13                              | 56.73                              | 66.89                               | 53.98                                        | 75.25                                | 111.92                                  | 76.8                                    |
| Serie Miel I  | 2010       | 61.09                              | 70.72                                | 97.16                              | 61.77                              | 78.83                             | 78.25                              | 96.25                              | 57.72                               | 116.33                                       | 110.48                               | 196.95                                  | 205.37                                  |
| Serie Miel I  | 2011       | 97.15                              | 88.8                                 | 122.91                             | 129.42                             | 107.79                            | 73.59                              | 61.74                              | 61.78                               | 63.75                                        | 93.98                                | 125.94                                  | 222.88                                  |
| Serie Miel I  | 2012       | 211.69                             | 92.59                                | 67.35                              | 116.71                             | 101.39                            | 38.34                              | 25.98                              | 24.35                               | 20.74                                        | 47.39                                | 103.19                                  | 116.91                                  |
| Serie Miel I  | 2013       | 74.19                              | 141.82                               | 102.39                             | 65.18                              | 113.41                            | 53.42                              | 37.71                              | 35.27                               | 45.4                                         | 60.5                                 | 79.09                                   | 97.33                                   |

| <b>Nombre</b>        | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Miel I         | 2014       | 107.26                             | 108.62                               | 84.64                              | 46.96                              | 91.59                             | 43.8                               | 23.32                              | 17.46                               | 39.7                                         | 56.62                                | 83.26                                   | 75.85                                   |
| Serie Miel I         | 2015       | 78.07                              | 74.18                                | 82.78                              | 70.19                              | 40.52                             | 40.07                              | 29.84                              | 15.58                               | 13.92                                        | 27.73                                | 57.32                                   | 25.3                                    |
| Serie Miel I         | 2016       | 17.19                              | 38.42                                | 63.61                              | 66.01                              | 59.68                             | 35.11                              | 32.46                              | 19.5                                | 40.9                                         | 76.11                                | 83.41                                   | 99.47                                   |
| Serie Miel I         | 2017       | 65.06                              | 47.55                                | 106.81                             | 76.9                               | 116.68                            | 49.95                              | 30.03                              | 37.3                                | 70.93                                        | 55.99                                | 74.84                                   | 69.73                                   |
| Serie Guarino Miel I | 1980       | 5.89                               | 5.41                                 | 3.46                               | 9.44                               | 13.4                              | 10.13                              | 0                                  | 0                                   | 2.39                                         | 27.51                                | 50.76                                   | 24.24                                   |
| Serie Guarino Miel I | 1981       | 4.38                               | 22.89                                | 12.36                              | 45.02                              | 61.05                             | 39.97                              | 19.66                              | 19.4                                | 31.15                                        | 27.11                                | 52.63                                   | 21.45                                   |
| Serie Guarino Miel I | 1982       | 6.42                               | 12.7                                 | 13.55                              | 55.8                               | 68.47                             | 25.27                              | 3.48                               | 0                                   | 1.76                                         | 21.43                                | 19.48                                   | 4.83                                    |
| Serie Guarino Miel I | 1983       | 0                                  | 7.34                                 | 19.07                              | 70.57                              | 32.34                             | 14.29                              | 4.49                               | 1.84                                | 15.46                                        | 30.6                                 | 38.26                                   | 58.83                                   |
| Serie Guarino Miel I | 1984       | 23.78                              | 59.4                                 | 55.36                              | 96.71                              | 122.62                            | 49.13                              | 32.43                              | 10.67                               | 52.07                                        | 47.26                                | 55.76                                   | 17.35                                   |
| Serie Guarino Miel I | 1985       | 10.94                              | 6.67                                 | 9.59                               | 21.38                              | 16.34                             | 15.5                               | 0.83                               | 0                                   | 0                                            | 4.16                                 | 9.61                                    | 11.14                                   |
| Serie Guarino Miel I | 1986       | 7.15                               | 4.51                                 | 5.77                               | 41.56                              | 21.89                             | 63.85                              | 5.61                               | 6.19                                | 1.51                                         | 24.75                                | 24.87                                   | 17.75                                   |
| Serie Guarino Miel I | 1987       | 0.88                               | 0                                    | 0                                  | 4.23                               | 11.01                             | 9.56                               | 12.23                              | 15.11                               | 11.61                                        | 40.54                                | 48.46                                   | 27.02                                   |
| Serie Guarino Miel I | 1988       | 8.25                               | 4.13                                 | 3.98                               | 33.63                              | 26.87                             | 19.75                              | 3.56                               | 18.67                               | 35.99                                        | 56.05                                | 50.54                                   | 53.6                                    |

| <b>Nombre</b>              | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Guarino<br>Miel I | 1989       | 48.41                              | 30.09                                | 42.33                              | 43.54                              | 48.78                             | 28.63                              | 10.57                              | 7.75                                | 29.68                                        | 44.88                                | 37.43                                   | 22.05                                   |
| Serie<br>Guarino<br>Miel I | 1990       | 2.68                               | 2.33                                 | 0.79                               | 17.79                              | 16.23                             | 7.77                               | 0.09                               | 0                                   | 0                                            | 34.15                                | 24.7                                    | 24.3                                    |
| Serie<br>Guarino<br>Miel I | 1991       | 3.23                               | 2.66                                 | 6.61                               | 15                                 | 23.42                             | 14.44                              | 1.21                               | 0                                   | 0                                            | 12.08                                | 12.42                                   | 18.15                                   |
| Serie<br>Guarino<br>Miel I | 1992       | 1.49                               | 0                                    | 0                                  | 10.1                               | 20.05                             | 9.71                               | 0                                  | 0                                   | 0                                            | 4.56                                 | 7.06                                    | 13.67                                   |
| Serie<br>Guarino<br>Miel I | 1993       | 0                                  | 4.46                                 | 10.84                              | 27.46                              | 31.37                             | 14.07                              | 0                                  | 0                                   | 10.91                                        | 14.72                                | 23.83                                   | 18.31                                   |
| Serie<br>Guarino<br>Miel I | 1994       | 7.14                               | 11.3                                 | 21.36                              | 29.64                              | 32.95                             | 16.9                               | 0.68                               | 0                                   | 0                                            | 10.68                                | 19.85                                   | 12.65                                   |
| Serie<br>Guarino<br>Miel I | 1995       | 0                                  | 0                                    | 5.67                               | 24.44                              | 34.36                             | 31.84                              | 11.34                              | 20.55                               | 9.07                                         | 20.84                                | 23.65                                   | 27.84                                   |
| Serie<br>Guarino<br>Miel I | 1996       | 11.83                              | 8.87                                 | 23.11                              | 17.45                              | 44.76                             | 32.57                              | 20.18                              | 8.93                                | 7.97                                         | 29.65                                | 22.38                                   | 26.01                                   |
| Serie<br>Guarino<br>Miel I | 1997       | 23.29                              | 36.33                                | 24.92                              | 37.65                              | 31.63                             | 35.05                              | 12.14                              | 15.27                               | 29.88                                        | 28.7                                 | 31.01                                   | 13.55                                   |
| Serie<br>Guarino<br>Miel I | 1998       | 1.74                               | 3.73                                 | 11.22                              | 26.85                              | 26.71                             | 9.46                               | 12.7                               | 18.66                               | 9.34                                         | 49.63                                | 42.95                                   | 34.83                                   |
| Serie<br>Guarino<br>Miel I | 1999       | 26.22                              | 51.89                                | 50.38                              | 47.03                              | 54.01                             | 40.98                              | 6.65                               | 4.73                                | 28.4                                         | 60.62                                | 49.12                                   | 70.02                                   |
| Serie<br>Guarino<br>Miel I | 2000       | 14.52                              | 22.89                                | 38.83                              | 25.04                              | 41.99                             | 31.34                              | 9.6                                | 9.8                                 | 45.35                                        | 50.12                                | 36.73                                   | 21.53                                   |

| <b>Nombre</b>              | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Guarino<br>Miel I | 2001       | 24.42                              | 10.42                                | 21.13                              | 20.88                              | 36.82                             | 24.94                              | 8.69                               | 0.06                                | 25.72                                        | 27.49                                | 34.81                                   | 37.08                                   |
| Serie<br>Guarino<br>Miel I | 2002       | 9.8                                | 11.31                                | 9.68                               | 39.42                              | 33.48                             | 35.64                              | 4.57                               | 1.86                                | 12.73                                        | 34.44                                | 29.92                                   | 25.4                                    |
| Serie<br>Guarino<br>Miel I | 2003       | 9.05                               | 7.63                                 | 14.09                              | 47.94                              | 38.23                             | 40.66                              | 10.13                              | 2.01                                | 9.1                                          | 39.55                                | 56.34                                   | 38.37                                   |
| Serie<br>Guarino<br>Miel I | 2004       | 15.17                              | 9.36                                 | 13.34                              | 31.89                              | 44.79                             | 13.6                               | 1.66                               | 0                                   | 8.58                                         | 36.66                                | 52.76                                   | 30.08                                   |
| Serie<br>Guarino<br>Miel I | 2005       | 18.59                              | 30.43                                | 35.64                              | 43.55                              | 66.21                             | 22.31                              | 4.69                               | 4.17                                | 10.27                                        | 49.07                                | 62.96                                   | 66.87                                   |
| Serie<br>Guarino<br>Miel I | 2006       | 27.13                              | 23.39                                | 41.69                              | 57.03                              | 49.88                             | 45.41                              | 4.17                               | 7.85                                | 15.04                                        | 42.54                                | 34.29                                   | 43.3                                    |
| Serie<br>Guarino<br>Miel I | 2007       | 31.32                              | 45.02                                | 35.27                              | 38.06                              | 52                                | 48.12                              | 40.04                              | 35.91                               | 32.8                                         | 62.89                                | 82.45                                   | 63.66                                   |
| Serie<br>Guarino<br>Miel I | 2008       | 36.32                              | 14.34                                | 19.7                               | 26.97                              | 53.52                             | 35.16                              | 17.82                              | 39.8                                | 36.68                                        | 50.75                                | 57.62                                   | 42.61                                   |
| Serie<br>Guarino<br>Miel I | 2009       | 34.27                              | 40.22                                | 67.3                               | 75.48                              | 83.48                             | 72.22                              | 40.09                              | 37.18                               | 30.71                                        | 39.8                                 | 57.83                                   | 43.01                                   |
| Serie<br>Guarino<br>Miel I | 2010       | 0                                  | 0.93                                 | 13.97                              | 21.99                              | 28.5                              | 38.06                              | 43.14                              | 11.48                               | 39.82                                        | 42                                   | 104.31                                  | 114.95                                  |
| Serie<br>Guarino<br>Miel I | 2011       | 52.77                              | 31.9                                 | 47.44                              | 66.34                              | 57.44                             | 19.54                              | 8.34                               | 6.92                                | 5.21                                         | 22.61                                | 38.85                                   | 83.27                                   |
| Serie<br>Guarino<br>Miel I | 2012       | 46.41                              | 32.32                                | 15.02                              | 56.12                              | 48.34                             | 15.47                              | 2.99                               | 0                                   | 0                                            | 7.76                                 | 16.02                                   | 12.53                                   |

| <b>Nombre</b>              | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Guarino<br>Miel I | 2013       | 1.97                               | 40.46                                | 31.16                              | 18.12                              | 44.15                             | 24.78                              | 3.84                               | 0.54                                | 4.35                                         | 17.88                                | 22.27                                   | 37.1                                    |
| Serie<br>Guarino<br>Miel I | 2014       | 12.45                              | 14.81                                | 28.63                              | 21.21                              | 26.92                             | 3.62                               | 0                                  | 0                                   | 0                                            | 19.52                                | 31.84                                   | 21.67                                   |
| Serie<br>Guarino<br>Miel I | 2015       | 0.39                               | 3.05                                 | 9.32                               | 29.14                              | 6.69                              | 1.51                               | 0                                  | 0                                   | 0                                            | 0                                    | 0.8                                     | 0                                       |
| Serie<br>Guarino<br>Miel I | 2016       | 0                                  | 0                                    | 0                                  | 7.87                               | 16.18                             | 2.52                               | 0                                  | 0                                   | 0                                            | 7.6                                  | 18.7                                    | 23.15                                   |
| Serie<br>Guarino<br>Miel I | 2017       | 13.47                              | 0                                    | 65.64                              | 50.79                              | 133                               | 15.95                              | 0                                  | 0                                   | 0.52                                         | 12.53                                | 21.53                                   | 12.71                                   |
| Serie<br>Manso<br>Miel I   | 1966       | 7.41                               | 1.27                                 | 0                                  | 1.08                               | 9.02                              | 10.18                              | 5.65                               | 6.75                                | 10.86                                        | 11.8                                 | 19.26                                   | 12.72                                   |
| Serie<br>Manso<br>Miel I   | 1967       | 6.07                               | 7.46                                 | 6.8                                | 4.2                                | 7.68                              | 5.86                               | 1.3                                | 2.26                                | 3.69                                         | 8.06                                 | 14                                      | 2.88                                    |
| Serie<br>Manso<br>Miel I   | 1968       | 0.06                               | 2.46                                 | 4.79                               | 10.73                              | 8.69                              | 3.07                               | 1.83                               | 4.79                                | 16.26                                        | 14.38                                | 13.25                                   | 10.05                                   |
| Serie<br>Manso<br>Miel I   | 1969       | 4.96                               | 0                                    | 6.4                                | 8.72                               | 4.05                              | 5.98                               | 0                                  | 3.55                                | 8.97                                         | 21.06                                | 12.25                                   | 12.05                                   |
| Serie<br>Manso<br>Miel I   | 1970       | 5.37                               | 2.18                                 | 0                                  | 11.09                              | 11.87                             | 4.23                               | 1.73                               | 0                                   | 0                                            | 0                                    | 11.68                                   | 10.28                                   |
| Serie<br>Manso<br>Miel I   | 1971       | 10.25                              | 11.48                                | 13.42                              | 6.67                               | 12.43                             | 2.56                               | 0                                  | 8.96                                | 5.1                                          | 9.51                                 | 9.68                                    | 3.36                                    |
| Serie<br>Manso<br>Miel I   | 1972       | 2.64                               | 2.34                                 | 2.71                               | 0                                  | 8.64                              | 5.27                               | 0                                  | 2.04                                | 3.74                                         | 7.21                                 | 8.31                                    | 0                                       |

| <b>Nombre</b>      | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Manso Miel I | 1973       | 0                                  | 0                                    | 0.05                               | 2.09                               | 1.51                              | 4.36                               | 0                                  | 11.23                               | 0.86                                         | 18.78                                | 20.46                                   | 10.54                                   |
| Serie Manso Miel I | 1974       | 13.02                              | 5.87                                 | 6.5                                | 9.7                                | 8.12                              | 0.95                               | 0                                  | 2.96                                | 5.41                                         | 14.59                                | 18.33                                   | 4.32                                    |
| Serie Manso Miel I | 1975       | 2.66                               | 1.26                                 | 1.13                               | 3.88                               | 8.74                              | 5.32                               | 11.87                              | 6.25                                | 17.1                                         | 16.37                                | 15.81                                   | 7.87                                    |
| Serie Manso Miel I | 1976       | 5.23                               | 3.42                                 | 7.38                               | 8.47                               | 3.9                               | 0                                  | 0                                  | 0                                   | 0                                            | 4.17                                 | 2.06                                    | 0                                       |
| Serie Manso Miel I | 1977       | 0                                  | 0                                    | 0                                  | 0                                  | 0                                 | 3.75                               | 0.78                               | 3.14                                | 4.53                                         | 15.96                                | 16.23                                   | 7.31                                    |
| Serie Manso Miel I | 1978       | 0                                  | 0                                    | 4.76                               | 18.07                              | 12.87                             | 3.84                               | 3.67                               | 0                                   | 0                                            | 6.9                                  | 11.41                                   | 0                                       |
| Serie Manso Miel I | 1979       | 2.85                               | 0.14                                 | 2.94                               | 3.91                               | 2.9                               | 5.42                               | 1.7                                | 11.59                               | 8.03                                         | 6.63                                 | 12.98                                   | 1.84                                    |
| Serie Manso Miel I | 1980       | 12.01                              | 3.19                                 | 2.42                               | 3.66                               | 5.13                              | 2.52                               | 0                                  | 0                                   | 2.73                                         | 5.85                                 | 11.23                                   | 6.61                                    |
| Serie Manso Miel I | 1981       | 2.82                               | 5.56                                 | 3.29                               | 6.07                               | 8.47                              | 9.51                               | 4.78                               | 2.79                                | 8.16                                         | 9.38                                 | 14.12                                   | 11.97                                   |
| Serie Manso Miel I | 1982       | 6.84                               | 7.75                                 | 8.22                               | 6.18                               | 9.59                              | 4.47                               | 0.05                               | 0                                   | 2.6                                          | 8.36                                 | 4.75                                    | 2.49                                    |
| Serie Manso Miel I | 1983       | 2.1                                | 0                                    | 1.07                               | 6.73                               | 12.34                             | 2.82                               | 1.86                               | 0                                   | 0                                            | 8.5                                  | 3.44                                    | 9.57                                    |
| Serie Manso Miel I | 1984       | 4.22                               | 19.53                                | 5.14                               | 3.15                               | 6.34                              | 5.28                               | 8.28                               | 6.56                                | 14.29                                        | 22.78                                | 18.54                                   | 7.25                                    |

| <b>Nombre</b>      | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Manso Miel I | 1985       | 2.92                               | 1.58                                 | 0.71                               | 1.71                               | 1.42                              | 3.88                               | 0                                  | 3.66                                | 4.71                                         | 11.33                                | 7.63                                    | 0.93                                    |
| Serie Manso Miel I | 1986       | 1.79                               | 1.36                                 | 1.39                               | 10.12                              | 12.15                             | 3.58                               | 0                                  | 0                                   | 0.61                                         | 4.67                                 | 16                                      | 6.06                                    |
| Serie Manso Miel I | 1987       | 2.83                               | 2.91                                 | 2.04                               | 0.68                               | 4.45                              | 5.26                               | 2.82                               | 4.54                                | 7.3                                          | 10.01                                | 13.04                                   | 3.9                                     |
| Serie Manso Miel I | 1988       | 1.73                               | 1.23                                 | 0                                  | 4.43                               | 3.5                               | 3.66                               | 0                                  | 9.11                                | 10.92                                        | 11.52                                | 17.53                                   | 9.96                                    |
| Serie Manso Miel I | 1989       | 14.96                              | 9.39                                 | 9.07                               | 5.43                               | 7.36                              | 1.36                               | 0.69                               | 2.63                                | 13.03                                        | 11.28                                | 10.07                                   | 6.57                                    |
| Serie Manso Miel I | 1990       | 3.97                               | 2.4                                  | 0.17                               | 4.97                               | 5.92                              | 1.63                               | 4.58                               | 1.84                                | 9.52                                         | 4.05                                 | 24                                      | 9.08                                    |
| Serie Manso Miel I | 1991       | 4.84                               | 5.32                                 | 0.29                               | 5.34                               | 13.53                             | 5.7                                | 0                                  | 0.97                                | 3.63                                         | 10.82                                | 13.06                                   | 3.99                                    |
| Serie Manso Miel I | 1992       | 2.43                               | 4.53                                 | 6.64                               | 0.38                               | 10                                | 4.49                               | 0                                  | 0                                   | 4.24                                         | 3.07                                 | 9.2                                     | 0                                       |
| Serie Manso Miel I | 1993       | 1.45                               | 1.7                                  | 4.84                               | 3.49                               | 6.7                               | 0                                  | 0                                  | 0.12                                | 9.82                                         | 3.44                                 | 12.07                                   | 4.78                                    |
| Serie Manso Miel I | 1994       | 4.94                               | 10.99                                | 15.99                              | 6.95                               | 5.68                              | 2.4                                | 0                                  | 0                                   | 3.71                                         | 7.01                                 | 10.06                                   | 9.59                                    |
| Serie Manso Miel I | 1995       | 0                                  | 0                                    | 2.5                                | 1.37                               | 8.74                              | 9.55                               | 5.8                                | 2.46                                | 5.31                                         | 6.5                                  | 9.19                                    | 12.41                                   |
| Serie Manso Miel I | 1996       | 8.19                               | 6.5                                  | 13.68                              | 8.23                               | 16.89                             | 11.04                              | 5.22                               | 4.34                                | 3.62                                         | 5.82                                 | 11.94                                   | 7.75                                    |

| <b>Nombre</b>      | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Manso Miel I | 1997       | 1.82                               | 8.3                                  | 4.05                               | 5.98                               | 0.44                              | 4.08                               | 0                                  | 0                                   | 5.18                                         | 7.01                                 | 7.95                                    | 0.74                                    |
| Serie Manso Miel I | 1998       | 4.12                               | 7.74                                 | 1.91                               | 3.99                               | 3.16                              | 0                                  | 3.12                               | 0.33                                | 6.12                                         | 6.53                                 | 12.06                                   | 14.59                                   |
| Serie Manso Miel I | 1999       | 10.42                              | 22.05                                | 10.73                              | 6.44                               | 7.33                              | 7.49                               | 5.29                               | 6.56                                | 9.76                                         | 14.91                                | 13.96                                   | 17.78                                   |
| Serie Manso Miel I | 2000       | 1.42                               | 5.84                                 | 8.05                               | 7.16                               | 3.18                              | 3.58                               | 1.44                               | 2.51                                | 10.25                                        | 9.41                                 | 8.26                                    | 5.63                                    |
| Serie Manso Miel I | 2001       | 1.95                               | 0.42                                 | 4.53                               | 6.86                               | 5.75                              | 5.27                               | 0.08                               | 0                                   | 5.02                                         | 11.46                                | 20.82                                   | 13.93                                   |
| Serie Manso Miel I | 2002       | 8.19                               | 2.78                                 | 7.23                               | 25.97                              | 17.59                             | 5.35                               | 6.2                                | 1.61                                | 7.81                                         | 27.07                                | 9.17                                    | 5.27                                    |
| Serie Manso Miel I | 2003       | 2.14                               | 4.41                                 | 8.3                                | 16.37                              | 11.68                             | 5.25                               | 1.66                               | 2.37                                | 3.91                                         | 7.84                                 | 12.84                                   | 5.52                                    |
| Serie Manso Miel I | 2004       | 1.5                                | 0                                    | 0                                  | 16.94                              | 7.7                               | 3.17                               | 6.07                               | 0.22                                | 8.14                                         | 11.34                                | 12.35                                   | 3.57                                    |
| Serie Manso Miel I | 2005       | 7.5                                | 2.37                                 | 3.06                               | 4.5                                | 7.33                              | 7.36                               | 1.62                               | 0                                   | 2.08                                         | 11.78                                | 8.91                                    | 6.7                                     |
| Serie Manso Miel I | 2006       | 6.47                               | 8.06                                 | 8.78                               | 9.61                               | 8.45                              | 5.94                               | 0                                  | 1.63                                | 7.64                                         | 13.52                                | 11.18                                   | 10.87                                   |
| Serie Manso Miel I | 2007       | 10.88                              | 0.56                                 | 2.19                               | 11.78                              | 19.98                             | 1.99                               | 0.22                               | 1.68                                | 5.85                                         | 8.55                                 | 10.12                                   | 5.21                                    |
| Serie Manso Miel I | 2008       | 7.71                               | 5.36                                 | 5.64                               | 2.74                               | 7.77                              | 7.92                               | 2.34                               | 6.03                                | 3.85                                         | 6.99                                 | 11.6                                    | 5.82                                    |

| <b>Nombre</b>      | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|--------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Manso Miel I | 2009       | 7.02                               | 4.13                                 | 6.22                               | 1.1                                | 7.01                              | 6.74                               | 0.3                                | 2.18                                | 4.02                                         | 11.25                                | 17.14                                   | 8.23                                    |
| Serie Manso Miel I | 2010       | 0.72                               | 0                                    | 4.08                               | 0                                  | 1.74                              | 1.66                               | 6.48                               | 4.28                                | 14.12                                        | 11.84                                | 15.48                                   | 5.89                                    |
| Serie Manso Miel I | 2011       | 4.04                               | 8.64                                 | 9.63                               | 9.95                               | 8.75                              | 2.29                               | 1                                  | 2.5                                 | 1.41                                         | 4.48                                 | 6.51                                    | 16.71                                   |
| Serie Manso Miel I | 2012       | 19.9                               | 3.55                                 | 4.59                               | 6.62                               | 15.77                             | 18.53                              | 0                                  | 0                                   | 0                                            | 5.92                                 | 7.52                                    | 7                                       |
| Serie Manso Miel I | 2013       | 1.21                               | 7.34                                 | 8.91                               | 4.56                               | 11                                | 1.78                               | 0                                  | 0.79                                | 5.22                                         | 3.24                                 | 3.02                                    | 8.37                                    |
| Serie Manso Miel I | 2014       | 14.39                              | 13.75                                | 9.78                               | 4.35                               | 11.82                             | 0.4                                | 0                                  | 0                                   | 1.91                                         | 9.3                                  | 10.69                                   | 7.85                                    |
| Serie Manso Miel I | 2015       | 10.31                              | 4.96                                 | 1.66                               | 9.05                               | 2.93                              | 2.62                               | 0                                  | 0                                   | 0                                            | 0                                    | 11.21                                   | 1.11                                    |
| Serie Manso Miel I | 2016       | 0                                  | 0.66                                 | 0.28                               | 1.2                                | 2.17                              | 0                                  | 0                                  | 0                                   | 2.28                                         | 17.77                                | 14.92                                   | 13.71                                   |
| Serie Manso Miel I | 2017       | 6.35                               | 0                                    | 7.98                               | 5.76                               | 11.48                             | 2.9                                | 0                                  | 0.52                                | 8.73                                         | 5.34                                 | 14.27                                   | 7.58                                    |
| Serie San Carlos   | 1964       |                                    |                                      |                                    |                                    |                                   |                                    |                                    |                                     | 24.81                                        | 33.34                                | 36.73                                   | 21.06                                   |
| Serie San Carlos   | 1965       | 16.24                              | 14.85                                | 12.03                              | 12.65                              | 27.74                             | 16.06                              | 11.41                              | 14.81                               | 32.7                                         | 40.1                                 | 46.67                                   | 26.15                                   |
| Serie San Carlos   | 1966       | 23.91                              | 13.75                                | 16.44                              | 18.33                              | 24.17                             | 26.68                              | 18.62                              | 20.03                               | 19.81                                        | 32.46                                | 38.12                                   | 32.72                                   |
| Serie San Carlos   | 1967       | 23.18                              | 14.1                                 | 13.97                              | 33.47                              | 27.12                             | 27.72                              | 24.57                              | 21.33                               | 23.07                                        | 30.78                                | 28.49                                   | 18.64                                   |

| <b>Nombre</b>    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie San Carlos | 1968       | 13.59                              | 10.22                                | 11.48                              | 24.17                              | 24.59                             | 22.41                              | 28.36                              | 27.72                               | 45.19                                        | 43.83                                | 36.91                                   | 20.65                                   |
| Serie San Carlos | 1969       | 17.76                              | 12.47                                | 12.25                              | 26.02                              | 27.65                             | 19.21                              | 11.04                              | 21.97                               | 37.06                                        | 48.1                                 | 39.95                                   | 23.4                                    |
| Serie San Carlos | 1970       | 17.61                              | 10.99                                | 10.27                              | 16.17                              | 35.45                             | 21.86                              | 30.74                              | 26.9                                | 38.27                                        | 54.97                                | 40.52                                   | 25.8                                    |
| Serie San Carlos | 1971       | 25.69                              | 18.42                                | 32.02                              | 28.8                               | 79.76                             | 30.1                               | 26                                 | 32.19                               | 38.1                                         | 42.68                                | 36.11                                   | 23.55                                   |
| Serie San Carlos | 1972       | 26.64                              | 14.5                                 | 15.84                              | 23.82                              | 30.74                             | 29.79                              | 18.11                              | 23.4                                | 18.13                                        | 28.01                                | 29.77                                   | 24.46                                   |
| Serie San Carlos | 1973       | 16.81                              | 9.81                                 | 9.3                                | 23.05                              | 19.65                             | 26.66                              | 19.37                              | 30.01                               | 41.14                                        | 36.31                                | 48.47                                   | 35.28                                   |
| Serie San Carlos | 1974       | 28.93                              | 19.63                                | 17.89                              | 30.3                               | 38.3                              | 30.78                              | 22.63                              | 27.52                               | 39.18                                        | 41.82                                | 41.34                                   | 19.74                                   |
| Serie San Carlos | 1975       | 13.07                              | 11.11                                | 13.2                               | 23.16                              | 30.96                             | 30.98                              | 32.79                              | 27.85                               | 36.55                                        | 43.27                                | 46.47                                   | 35.25                                   |
| Serie San Carlos | 1976       | 19.24                              | 16.33                                | 26.29                              | 36.4                               | 24.52                             | 19.7                               | 11.19                              | 11.92                               | 19.37                                        | 42.66                                | 40.56                                   | 18.27                                   |
| Serie San Carlos | 1977       | 11.17                              | 9.81                                 | 11.48                              | 13.22                              | 22.87                             | 23.8                               | 25.8                               | 25.23                               | 31.6                                         | 35.83                                | 36.49                                   | 26.46                                   |
| Serie San Carlos | 1978       | 13.2                               | 12.49                                | 15.05                              | 28.09                              | 27.1                              | 20.58                              | 24.88                              | 14.72                               | 29.06                                        | 27.56                                | 38.63                                   | 21.33                                   |
| Serie San Carlos | 1979       | 11.15                              | 10.09                                | 12.34                              | 26.86                              | 32.24                             | 24.52                              | 17.43                              | 22.63                               | 32.76                                        | 39.24                                | 36.51                                   | 18.95                                   |
| Serie San Carlos | 1980       | 16.83                              | 11.35                                | 11.74                              | 24.66                              | 22.3                              | 21.9                               | 17.21                              | 16.64                               | 23.4                                         | 39.62                                | 42.17                                   | 28.89                                   |
| Serie San Carlos | 1981       | 15.73                              | 14.83                                | 11.61                              | 29.88                              | 42.15                             | 34.24                              | 26                                 | 29.08                               | 30.87                                        | 45.54                                | 41.25                                   | 29.66                                   |
| Serie San Carlos | 1982       | 14.37                              | 19.32                                | 25.36                              | 35.21                              | 40.7                              | 20.12                              | 10.49                              | 9.52                                | 17.54                                        | 34.06                                | 20.49                                   | 32.1                                    |
| Serie San Carlos | 1983       | 10.22                              | 10.29                                | 9.1                                | 35.01                              | 25.49                             | 15.56                              | 18.22                              | 15.49                               | 28.62                                        | 43.45                                | 32.59                                   | 32.1                                    |
| Serie San Carlos | 1984       | 17.83                              | 26.44                                | 16.7                               | 24.92                              | 35.74                             | 43.05                              | 33.91                              | 27.92                               | 36.16                                        | 45.54                                | 58.39                                   | 33.23                                   |

| <b>Nombre</b>    | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie San Carlos | 1985       | 15.49                              | 11.39                                | 19.13                              | 26.15                              | 38.01                             | 18.55                              | 14.23                              | 23.22                               | 27.59                                        | 27.3                                 | 20.21                                   | 20.45                                   |
| Serie San Carlos | 1986       | 18.09                              | 14.56                                | 11.68                              | 37.99                              | 29.11                             | 25.41                              | 14.52                              | 24.94                               | 26.15                                        | 39.31                                | 38.25                                   | 22.14                                   |
| Serie San Carlos | 1987       | 17.91                              | 14.37                                | 17.58                              | 27.17                              | 36.86                             | 26.75                              | 28.49                              | 23.16                               | 38.12                                        | 51.16                                | 48.65                                   | 29.72                                   |
| Serie San Carlos | 1988       | 12.56                              | 18                                   | 13.77                              | 44.07                              | 52.33                             | 35.83                              | 67.34                              | 44.11                               | 64.89                                        | 68.9                                 | 74.08                                   | 62.91                                   |
| Serie San Carlos | 1989       | 47.48                              | 23.95                                | 33.98                              | 43.27                              | 43.72                             | 40.19                              | 18.71                              | 39                                  | 35.94                                        | 54.62                                | 49.73                                   | 26.57                                   |
| Serie San Carlos | 1990       | 20.67                              | 25.78                                | 18.42                              | 41.38                              | 34.4                              | 36.29                              | 33.32                              | 34.95                               | 46.23                                        | 45.54                                | 42.53                                   | 32.1                                    |
| Serie San Carlos | 1991       | 12.1                               | 10.5                                 | 14.1                               | 26                                 | 26.9                              | 22.2                               | 18.9                               | 16                                  | 14.56                                        | 30.03                                | 31.53                                   | 25.1                                    |
| Serie San Carlos | 1992       | 14.26                              | 11.63                                | 19.74                              | 20.38                              | 36.82                             | 28.12                              | 16.59                              | 27.63                               | 39.6                                         | 41.42                                | 40.15                                   | 42.39                                   |
| Serie San Carlos | 1993       | 35.28                              | 24.22                                | 29                                 | 40.26                              | 44.57                             | 21.75                              | 31.27                              | 23.66                               | 51.52                                        | 30.91                                | 28.16                                   | 37.88                                   |
| Serie San Carlos | 1994       | 19.46                              | 16.55                                | 18.57                              | 41.4                               | 37.08                             | 19.15                              | 20.45                              | 22.72                               | 22.43                                        | 35.98                                | 28.86                                   | 19.61                                   |
| Serie San Carlos | 1995       | 11.83                              | 10.05                                | 20.67                              | 29.9                               | 28.6                              | 29.68                              | 26.77                              | 53.26                               | 31.82                                        | 51.56                                | 38.32                                   | 19.15                                   |
| Serie San Carlos | 1996       | 15.18                              | 19.13                                | 21.84                              | 34.88                              | 35.1                              | 29.06                              | 25.89                              | 22.87                               | 19.37                                        | 47.09                                | 38.58                                   | 13.97                                   |
| Serie San Carlos | 1997       | 7.51                               | 13.48                                | 22.94                              | 46.59                              | 29.75                             | 36.76                              | 12.97                              | 16.37                               | 32.91                                        | 28.31                                | 31.55                                   | 16.3                                    |
| Serie San Carlos | 1998       | 15.84                              | 17.87                                | 14.87                              | 21.58                              | 37.2                              | 16.66                              | 30.53                              | 29.01                               | 44.65                                        | 49.95                                | 57.4                                    | 48.75                                   |
| Serie San Carlos | 1999       | 39.09                              | 34.28                                | 26                                 | 39.72                              | 34.7                              | 26.17                              | 18.46                              | 19.6                                | 31.24                                        | 38.67                                | 28.5                                    | 25.05                                   |
| Serie San Carlos | 2000       | 9.14                               | 14.89                                | 13.07                              | 17.53                              | 24.24                             | 37.45                              | 20.27                              | 22.68                               | 47.32                                        | 37.61                                | 30.75                                   | 26.97                                   |
| Serie San Carlos | 2001       | 10.23                              | 7.5                                  | 13.57                              | 12.21                              | 26.98                             | 12.58                              | 24.01                              | 7.89                                | 18.87                                        | 32.65                                | 24.9                                    | 21.02                                   |

| <b>Nombre</b>     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie San Carlos  | 2002       | 11.11                              | 8.25                                 | 11.76                              | 33.32                              | 18.12                             | 26.11                              | 8.48                               | 13.83                               | 24.74                                        | 27.59                                | 18.58                                   | 11.56                                   |
| Serie San Carlos  | 2003       | 6.29                               | 7.52                                 | 9.47                               | 24.62                              | 25.92                             | 31.72                              | 16.37                              | 16.73                               | 18.58                                        | 27.05                                | 21.35                                   | 31                                      |
| Serie San Carlos  | 2004       | 16.3                               | 13.53                                | 15.68                              | 26.75                              | 32.19                             | 18.92                              | 25.42                              | 17.42                               | 39.05                                        | 30.05                                | 59                                      | 22.65                                   |
| Serie San Carlos  | 2005       | 15.75                              | 13.66                                | 11.8                               | 18.19                              | 35.22                             | 41.29                              | 19.59                              | 18.08                               | 19.44                                        | 39.41                                | 65.43                                   | 19.12                                   |
| Serie San Carlos  | 2006       | 17.03                              | 21.01                                | 27.95                              | 31.55                              | 29.3                              | 23.12                              | 12.34                              | 24.19                               | 18.96                                        | 65.19                                | 59.16                                   | 25.77                                   |
| Serie San Carlos  | 2007       | 21.89                              | 17.72                                | 20.16                              | 26.46                              | 58.11                             | 25.42                              | 33.69                              | 46.12                               | 54.88                                        | 81.69                                | 31.96                                   | 20.08                                   |
| Serie San Carlos  | 2008       | 13.99                              | 18.23                                | 26.53                              | 26.8                               | 45.45                             | 26.24                              | 33.31                              | 43.68                               | 19.06                                        | 40.38                                | 46.4                                    | 16.52                                   |
| Serie San Carlos  | 2009       | 28.4                               | 14.49                                | 16.27                              | 27.47                              | 31.56                             | 17.81                              | 11.86                              | 19.69                               | 17.68                                        | 28.37                                | 37.57                                   | 17.66                                   |
| Serie San Carlos  | 2010       | 8.82                               | 8.11                                 | 9.54                               | 16.42                              | 21.12                             | 22.06                              | 26.89                              | 29.4                                | 36.93                                        | 47.34                                | 52.38                                   | 35.5                                    |
| Serie San Carlos  | 2011       | 14.71                              | 15.19                                | 39.09                              | 73.2                               | 42.45                             | 23.94                              | 35.19                              | 35.49                               | 24.04                                        | 34.62                                | 51.36                                   | 41.34                                   |
| Serie San Carlos  | 2012       | 19.54                              | 12.79                                | 17.31                              | 42.71                              | 45.07                             | 23.87                              | 24.95                              | 26.4                                | 21.95                                        | 44.06                                | 46                                      | 26.84                                   |
| Serie San Carlos  | 2013       | 17.67                              | 18.37                                | 27.68                              | 23.23                              | 46.18                             | 32.56                              | 24.16                              | 43.66                               | 40.91                                        | 44.93                                | 49.28                                   | 42.96                                   |
| Serie San Carlos  | 2014       | 25.8                               | 30.5                                 | 35.01                              | 30.98                              | 40.67                             | 30.53                              | 21.96                              | 23.43                               | 33.93                                        | 53.14                                | 50.52                                   | 34.96                                   |
| Serie San Carlos  | 2015       | 19.24                              | 21.05                                | 22.29                              | 45.22                              | 29.71                             | 23.44                              | 18.87                              | 23.73                               | 28.64                                        | 26.01                                | 34.01                                   | 18.92                                   |
| Serie San Carlos  | 2016       | 11.64                              | 10.8                                 | 10.69                              | 16.11                              | 19.78                             | 11.89                              | 13.11                              | 16.73                               | 33.45                                        | 31.02                                | 26.23                                   | 35.95                                   |
| Serie San Carlos  | 2017       | 23.02                              | 13.08                                | 30.32                              | 29.93                              | 44.51                             | 29.65                              | 22.5                               | 23.48                               | 36.32                                        | 28.97                                | 47.43                                   | 29.23                                   |
| Serie San Lorenzo | 1955       |                                    |                                      |                                    |                                    |                                   |                                    |                                    | 38.23                               | 46.4                                         | 60.28                                | 66.91                                   | 53.21                                   |

| <b>Nombre</b>     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie San Lorenzo | 1956       | 50.5                               | 44.41                                | 41.43                              | 38.99                              | 65.95                             | 56.6                               | 42.29                              | 46.45                               | 50.48                                        | 68.05                                | 60.68                                   | 46.22                                   |
| Serie San Lorenzo | 1957       | 31.17                              | 26.57                                | 21.93                              | 37.01                              | 45.44                             | 37.47                              | 31.45                              | 33.04                               | 33.62                                        | 39.73                                | 35.8                                    | 30.64                                   |
| Serie San Lorenzo | 1958       | 20.61                              | 19.23                                | 23.97                              | 25.74                              | 37.89                             | 24.89                              | 21.15                              | 35.29                               | 25.05                                        | 33.25                                | 30.72                                   | 28.4                                    |
| Serie San Lorenzo | 1959       | 19.08                              | 16.94                                | 18.32                              | 22.97                              | 31.58                             | 32.25                              | 27.8                               | 30.64                               | 46.73                                        | 40.92                                | 40.53                                   | 26.28                                   |
| Serie San Lorenzo | 1960       | 22.15                              | 20.62                                | 23.8                               | 27.64                              | 37.22                             | 41.35                              | 43.63                              | 33.55                               | 46.69                                        | 43.67                                | 45.61                                   | 43.12                                   |
| Serie San Lorenzo | 1961       | 26.05                              | 24.97                                | 24.29                              | 28.44                              | 34.24                             | 39.59                              | 37.08                              | 34.86                               | 56.54                                        | 55.12                                | 60.52                                   | 39.03                                   |
| Serie San Lorenzo | 1962       | 25.18                              | 22.39                                | 30.94                              | 37.09                              | 65.02                             | 64.34                              | 41.83                              | 44.82                               | 46.12                                        | 61.38                                | 52.31                                   | 35.24                                   |
| Serie San Lorenzo | 1963       | 26.69                              | 34.14                                | 36.27                              | 46.21                              | 48.39                             | 34.97                              | 37.07                              | 37.47                               | 40.16                                        | 48.53                                | 58.47                                   | 31.32                                   |
| Serie San Lorenzo | 1964       | 23.9                               | 19.77                                | 19.65                              | 33.91                              | 66.65                             | 35.31                              | 43.43                              | 41.21                               | 56.85                                        | 51.43                                | 45.71                                   | 28.14                                   |
| Serie San Lorenzo | 1965       | 29.5                               | 22.2                                 | 20.2                               | 27.9                               | 47.2                              | 38                                 | 28.7                               | 41.8                                | 54.5                                         | 48                                   | 58.7                                    | 33.8                                    |
| Serie San Lorenzo | 1966       | 34.7                               | 21.6                                 | 27                                 | 30                                 | 40.1                              | 54.8                               | 35.6                               | 43.8                                | 41                                           | 48                                   | 53.1                                    | 39.4                                    |
| Serie San Lorenzo | 1967       | 31.5                               | 25.3                                 | 26.3                               | 47.3                               | 56.1                              | 57                                 | 54.5                               | 34.3                                | 54.1                                         | 42.8                                 | 35.7                                    | 26.88                                   |
| Serie San Lorenzo | 1968       | 22.1                               | 15.2                                 | 19.3                               | 32.4                               | 34.9                              | 42.6                               | 46.6                               | 47.3                                | 64.5                                         | 60.1                                 | 46.8                                    | 27                                      |
| Serie San Lorenzo | 1969       | 27.4                               | 23.5                                 | 23.4                               | 32.2                               | 35.4                              | 32.8                               | 19.4                               | 48.9                                | 56.8                                         | 53.9                                 | 50.2                                    | 32.7                                    |
| Serie San Lorenzo | 1970       | 30.6                               | 15.7                                 | 22.9                               | 31.4                               | 57.6                              | 48.3                               | 48.9                               | 45.2                                | 65.5                                         | 65.2                                 | 46.5                                    | 43.1                                    |
| Serie San Lorenzo | 1971       | 44.7                               | 40.7                                 | 60.2                               | 51.3                               | 66.1                              | 58.3                               | 45.3                               | 63.7                                | 69.8                                         | 80.9                                 | 72.2                                    | 38.8                                    |
| Serie San Lorenzo | 1972       | 42.3                               | 23.5                                 | 28.5                               | 32.9                               | 60.1                              | 51.7                               | 41.8                               | 47.7                                | 39.3                                         | 48.2                                 | 45.5                                    | 27.3                                    |

| <b>Nombre</b>     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie San Lorenzo | 1973       | 20.5                               | 14.2                                 | 19.6                               | 24.6                               | 34.5                              | 54.7                               | 38.4                               | 54.7                                | 92.4                                         | 64.6                                 | 60.7                                    | 40.3                                    |
| Serie San Lorenzo | 1974       | 39.7                               | 26.6                                 | 25.9                               | 45.1                               | 57.8                              | 43.2                               | 45.7                               | 50.9                                | 69                                           | 65.2                                 | 53.4                                    | 27.1                                    |
| Serie San Lorenzo | 1975       | 27.3                               | 24.4                                 | 32.3                               | 44.2                               | 58.4                              | 53.3                               | 63.6                               | 52.5                                | 54                                           | 60.2                                 | 47.1                                    | 36.3                                    |
| Serie San Lorenzo | 1976       | 20.3                               | 20.8                                 | 40.1                               | 41.8                               | 46.6                              | 30.8                               | 21.9                               | 24.9                                | 22.1                                         | 32.1                                 | 37.3                                    | 22.2                                    |
| Serie San Lorenzo | 1977       | 17.4                               | 15.7                                 | 16.57                              | 18.51                              | 29.49                             | 25.35                              | 31.9                               | 35.47                               | 21.55                                        | 32.17                                | 25.11                                   | 23.11                                   |
| Serie San Lorenzo | 1978       | 14.65                              | 16.91                                | 17.59                              | 45.06                              | 41.64                             | 44.82                              | 46.56                              | 33.93                               | 45.5                                         | 44.74                                | 42.47                                   | 38.3                                    |
| Serie San Lorenzo | 1979       | 30.68                              | 25.58                                | 28.48                              | 36.13                              | 42.88                             | 44.65                              | 31.54                              | 43.33                               | 52.82                                        | 59.49                                | 51.64                                   | 26.06                                   |
| Serie San Lorenzo | 1980       | 19.17                              | 16.83                                | 19.87                              | 22.98                              | 45.38                             | 36.39                              | 35.42                              | 35.21                               | 40.96                                        | 57.57                                | 48.2                                    | 28.76                                   |
| Serie San Lorenzo | 1981       | 16.8                               | 17.84                                | 16.61                              | 37.72                              | 58.47                             | 38.86                              | 35.68                              | 30.28                               | 39.86                                        | 48.02                                | 34.14                                   | 25.17                                   |
| Serie San Lorenzo | 1982       | 20.5                               | 24.92                                | 28.67                              | 54.17                              | 55.33                             | 25.42                              | 25.58                              | 36.36                               | 60.99                                        | 46.12                                | 23.97                                   | 19.44                                   |
| Serie San Lorenzo | 1983       | 16.93                              | 14.41                                | 16.36                              | 41.15                              | 46.44                             | 29.25                              | 35.93                              | 31.05                               | 53.35                                        | 45.78                                | 31.4                                    | 27.56                                   |
| Serie San Lorenzo | 1984       | 20.73                              | 36.04                                | 16.49                              | 38.13                              | 54.83                             | 57.48                              | 38.5                               | 40.07                               | 61.27                                        | 66.97                                | 56.68                                   | 35.75                                   |
| Serie San Lorenzo | 1985       | 17.41                              | 19.2                                 | 29.62                              | 25.13                              | 50.46                             | 22.98                              | 25.72                              | 61.13                               | 54.44                                        | 35.55                                | 26.42                                   | 22.09                                   |
| Serie San Lorenzo | 1986       | 25.85                              | 28.03                                | 19.31                              | 53.08                              | 41.73                             | 34.04                              | 23.26                              | 40.93                               | 36.93                                        | 58.88                                | 37.27                                   | 21.97                                   |
| Serie San Lorenzo | 1987       | 19.61                              | 16.36                                | 11.9                               | 19.1                               | 21.4                              | 18                                 | 23.6                               | 21.5                                | 31.4                                         | 34.3                                 | 29.8                                    | 21.7                                    |
| Serie San Lorenzo | 1988       | 14.7                               | 14.7                                 | 12.1                               | 29.6                               | 42.2                              | 51.2                               | 33.3                               | 60.7                                | 82.6                                         | 46.5                                 | 61.2                                    | 51.9                                    |
| Serie San Lorenzo | 1989       | 49.8                               | 24.7                                 | 21.8                               | 31                                 | 33.8                              | 40.3                               | 26.1                               | 41                                  | 63.8                                         | 61.7                                 | 57.3                                    | 31.1                                    |

| <b>Nombre</b>     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie San Lorenzo | 1990       | 22.9                               | 18.7                                 | 16.8                               | 23.8                               | 40.4                              | 31.9                               | 32.6                               | 25.4                                | 48                                           | 63.2                                 | 43.4                                    | 37                                      |
| Serie San Lorenzo | 1991       | 17.2                               | 14.9                                 | 16.8                               | 19.8                               | 24                                | 33.4                               | 25.6                               | 19                                  | 20.5                                         | 27.2                                 | 29.4                                    | 17.1                                    |
| Serie San Lorenzo | 1992       | 10.3                               | 9.6                                  | 14.8                               | 13.9                               | 29.6                              | 22                                 | 23                                 | 31.4                                | 45.5                                         | 30.1                                 | 23.3                                    | 22.2                                    |
| Serie San Lorenzo | 1993       | 21.62                              | 14.59                                | 23.98                              | 26.2                               | 29.47                             | 17.54                              | 30.25                              | 37.66                               | 56.34                                        | 51.43                                | 43.12                                   | 32.75                                   |
| Serie San Lorenzo | 1994       | 20.26                              | 17.91                                | 16.45                              | 32.3                               | 37.25                             | 26.85                              | 29.88                              | 33.5                                | 42.35                                        | 49.41                                | 56.19                                   | 25.98                                   |
| Serie San Lorenzo | 1995       | 19.87                              | 14.9                                 | 21.8                               | 40.71                              | 41.83                             | 59.6                               | 52.84                              | 47.44                               | 45.86                                        | 35.15                                | 29.8                                    | 22.98                                   |
| Serie San Lorenzo | 1996       | 17.2                               | 22.76                                | 31.3                               | 34.6                               | 46.87                             | 44.41                              | 108.6                              | 77.25                               | 58.52                                        | 82.3                                 | 47.04                                   | 25.43                                   |
| Serie San Lorenzo | 1997       | 18.64                              | 35.47                                | 31.66                              | 41.43                              | 23.2                              | 40.62                              | 17.6                               | 17.94                               | 25.41                                        | 20.84                                | 25.23                                   | 12.94                                   |
| Serie San Lorenzo | 1998       | 11.06                              | 11.76                                | 11.49                              | 20.78                              | 31.84                             | 31.42                              | 48.73                              | 36.61                               | 60.73                                        | 50.09                                | 41.63                                   | 40.18                                   |
| Serie San Lorenzo | 1999       | 26.4                               | 34.3                                 | 27.91                              | 38.82                              | 46.29                             | 51.72                              | 38.4                               | 34.92                               | 50.8                                         | 54.21                                | 43.03                                   | 35.46                                   |
| Serie San Lorenzo | 2000       | 18.81                              | 20.94                                | 21.16                              | 29.01                              | 61.56                             | 69.07                              | 64.74                              | 64.76                               | 77.72                                        | 61.37                                | 35.3                                    | 25.54                                   |
| Serie San Lorenzo | 2001       | 17.15                              | 16.2                                 | 33.02                              | 27.47                              | 54.71                             | 45                                 | 49.86                              | 19.11                               | 40.36                                        | 48.69                                | 47.2                                    | 29.17                                   |
| Serie San Lorenzo | 2002       | 20.33                              | 19.37                                | 20.99                              | 38.21                              | 41.26                             | 33.76                              | 23.21                              | 22.8                                | 42.52                                        | 34.4                                 | 27.27                                   | 18.23                                   |
| Serie San Lorenzo | 2003       | 11.32                              | 16.09                                | 22.55                              | 46.61                              | 58.83                             | 71.15                              | 35.9                               | 40.54                               | 38.15                                        | 48.62                                | 41.02                                   | 31.82                                   |
| Serie San Lorenzo | 2004       | 18.25                              | 18.22                                | 26.66                              | 30.94                              | 44.09                             | 28.28                              | 59.22                              | 31.7                                | 52.39                                        | 51.12                                | 48.16                                   | 27.57                                   |
| Serie San Lorenzo | 2005       | 23.07                              | 17.52                                | 12.79                              | 30.5                               | 37.73                             | 49.58                              | 24.96                              | 27.64                               | 40.22                                        | 44.53                                | 60.68                                   | 24.96                                   |
| Serie San Lorenzo | 2006       | 19.23                              | 22.18                                | 32.37                              | 45.09                              | 51.89                             | 47.55                              | 21.33                              | 31.4                                | 39.07                                        | 61.91                                | 51.12                                   | 37.04                                   |

[illegible]

[illegible]

[illegible]

| <b>Nombre</b>     | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Menor<br>Calderas | 2004       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Menor<br>Calderas | 2005       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Menor<br>Calderas | 2006       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Menor<br>Calderas | 2007       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Menor<br>Calderas | 2008       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Menor<br>Calderas | 2009       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Menor<br>Calderas | 2010       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Menor<br>Calderas | 2011       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Menor<br>Calderas | 2012       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Menor<br>Calderas | 2013       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Menor<br>Calderas | 2014       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Menor<br>Calderas | 2015       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Menor<br>Calderas | 2016       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Menor<br>Calderas | 2017       | 5.42                               | 5.42                                 | 5.42                               | 5.42                               | 5.42                              | 5.42                               | 5.42                               | 5.42                                | 5.42                                         | 5.42                                 | 5.42                                    | 5.42                                    |
| Serie<br>Amoya    | 1974       | 16.88                              | 20.82                                | 21.24                              | 28.23                              | 33.84                             | 28.83                              | 25.82                              | 21.36                               | 24.75                                        | 26.73                                | 29.7                                    | 17.69                                   |
| Serie<br>Amoya    | 1975       | 13.17                              | 17.48                                | 18.47                              | 13.49                              | 27.56                             | 30.83                              | 25.09                              | 20.62                               | 23.96                                        | 28.16                                | 28.83                                   | 29.44                                   |
| Serie<br>Amoya    | 1976       | 14.7                               | 13.3                                 | 18.47                              | 22.93                              | 32.57                             | 30.48                              | 21.48                              | 16.48                               | 13.69                                        | 17.43                                | 16.03                                   | 10.49                                   |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Amoya   | 1977       | 6.14                               | 8.37                                 | 6.8                                | 11.32                              | 14.17                             | 18.58                              | 17.64                              | 18.14                               | 17.79                                        | 24.27                                | 23.1                                    | 11.95                                   |
| Serie Amoya   | 1978       | 8.87                               | 6.77                                 | 12.31                              | 24.43                              | 18.33                             | 16.36                              | 17.74                              | 14.65                               | 12.72                                        | 14.53                                | 14.84                                   | 14.4                                    |
| Serie Amoya   | 1979       | 7.18                               | 7.1                                  | 11.1                               | 21.68                              | 19.19                             | 20.36                              | 11.99                              | 11.45                               | 16.25                                        | 14.14                                | 20.14                                   | 11.64                                   |
| Serie Amoya   | 1980       | 9.09                               | 10.5                                 | 6.85                               | 11.53                              | 14.8                              | 23.8                               | 11.98                              | 10.34                               | 10.6                                         | 14.03                                | 13.16                                   | 10.37                                   |
| Serie Amoya   | 1981       | 8.93                               | 11.28                                | 9.93                               | 15.17                              | 25.49                             | 21.02                              | 21.29                              | 12.63                               | 13.44                                        | 15.82                                | 19.37                                   | 13.51                                   |
| Serie Amoya   | 1982       | 17.29                              | 15.28                                | 15.59                              | 26.91                              | 26.53                             | 17.75                              | 23.22                              | 15.25                               | 11.4                                         | 22.25                                | 15.13                                   | 15.59                                   |
| Serie Amoya   | 1983       | 11.24                              | 10.7                                 | 12.09                              | 22.64                              | 21.21                             | 16.52                              | 17.44                              | 20.87                               | 8.01                                         | 13.98                                | 13.98                                   | 16.67                                   |
| Serie Amoya   | 1984       | 17.59                              | 17.17                                | 12.55                              | 16.59                              | 20.44                             | 25.26                              | 21.75                              | 18.13                               | 27.03                                        | 32.34                                | 29.45                                   | 18.87                                   |
| Serie Amoya   | 1985       | 13.63                              | 10.16                                | 9.63                               | 11.59                              | 20.67                             | 21.29                              | 18.79                              | 30.07                               | 15.71                                        | 19.64                                | 19.79                                   | 15.55                                   |
| Serie Amoya   | 1986       | 12.2                               | 14.05                                | 19.67                              | 20.1                               | 19.1                              | 29.76                              | 27.95                              | 14.21                               | 7.97                                         | 39.81                                | 20.21                                   | 13.44                                   |
| Serie Amoya   | 1987       | 11.77                              | 12.53                                | 12.61                              | 17.61                              | 19.31                             | 16.97                              | 18.15                              | 20.2                                | 13.09                                        | 16.06                                | 13.43                                   | 14.92                                   |
| Serie Amoya   | 1988       | 12.37                              | 12.39                                | 11.39                              | 13.56                              | 14.83                             | 21.28                              | 24.92                              | 15.33                               | 14.17                                        | 14.98                                | 22.82                                   | 24.45                                   |
| Serie Amoya   | 1989       | 15.97                              | 17.67                                | 26.34                              | 16.95                              | 22.48                             | 22                                 | 23.37                              | 16.88                               | 14.79                                        | 18.2                                 | 17.85                                   | 13.91                                   |
| Serie Amoya   | 1990       | 11.59                              | 11.63                                | 11.55                              | 15.32                              | 23.2                              | 20.66                              | 20.54                              | 16.67                               | 16.59                                        | 18.36                                | 13.82                                   | 14.63                                   |
| Serie Amoya   | 1991       | 10.04                              | 9.73                                 | 13.69                              | 12.49                              | 18.73                             | 21.06                              | 22.58                              | 21.61                               | 19.29                                        | 15.2                                 | 16.29                                   | 13.44                                   |
| Serie Amoya   | 1992       | 7.95                               | 7.62                                 | 7.07                               | 12.81                              | 15.54                             | 13.29                              | 25.25                              | 16.92                               | 12.4                                         | 11.09                                | 12.78                                   | 14.9                                    |
| Serie Amoya   | 1993       | 9.06                               | 10.41                                | 14.98                              | 21.91                              | 22.52                             | 19.83                              | 19.17                              | 16.56                               | 15.3                                         | 14.18                                | 20.55                                   | 17.35                                   |

| <b>Nombre</b> | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|---------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Amoya   | 1994       | 14.9                               | 14.82                                | 18.32                              | 26.43                              | 29.9                              | 25.03                              | 23.75                              | 17.1                                | 14.5                                         | 17.36                                | 19.88                                   | 13.72                                   |
| Serie Amoya   | 1995       | 8.3                                | 7.54                                 | 12.38                              | 15.56                              | 22.7                              | 22                                 | 25.46                              | 21.55                               | 17.98                                        | 18.51                                | 15.9                                    | 15.76                                   |
| Serie Amoya   | 1996       | 11.78                              | 14.92                                | 17.87                              | 19.21                              | 28.76                             | 24.68                              | 28.4                               | 17.65                               | 16.51                                        | 19.22                                | 15.01                                   | 16.52                                   |
| Serie Amoya   | 1997       | 19.01                              | 14.27                                | 11.41                              | 17.72                              | 18.65                             | 18.62                              | 22.21                              | 14.02                               | 12.21                                        | 12.24                                | 13.41                                   | 8.87                                    |
| Serie Amoya   | 1998       | 6.56                               | 8.59                                 | 11.43                              | 24.15                              | 23.65                             | 29.03                              | 27.22                              | 18.28                               | 16.96                                        | 21.87                                | 19.81                                   | 19.24                                   |
| Serie Amoya   | 1999       | 21.99                              | 31.78                                | 25.58                              | 34.99                              | 29.92                             | 29.83                              | 24.03                              | 24.07                               | 23.62                                        | 31.6                                 | 26.26                                   | 30.4                                    |
| Serie Amoya   | 2000       | 18.61                              | 21.53                                | 23.89                              | 23.09                              | 38.16                             | 30.89                              | 22.53                              | 23.53                               | 26.69                                        | 25.2                                 | 26.08                                   | 15.79                                   |
| Serie Amoya   | 2001       | 11.53                              | 10.1                                 | 16.31                              | 15.51                              | 21.27                             | 23.26                              | 21.74                              | 16.81                               | 20.5                                         | 12.63                                | 16.71                                   | 16.29                                   |
| Serie Amoya   | 2002       | 9.47                               | 7.02                                 | 13.89                              | 19.15                              | 22.35                             | 36.25                              | 23.83                              | 23.24                               | 17.06                                        | 19.42                                | 19.07                                   | 14.51                                   |
| Serie Amoya   | 2003       | 8.69                               | 9.23                                 | 13.84                              | 20.95                              | 22.78                             | 23.78                              | 22.54                              | 18.48                               | 13.36                                        | 20.23                                | 17.37                                   | 14.5                                    |
| Serie Amoya   | 2004       | 11.91                              | 9                                    | 8.67                               | 17.31                              | 27.91                             | 23.94                              | 21.54                              | 19.38                               | 15.08                                        | 19.14                                | 21.76                                   | 16.87                                   |
| Serie Amoya   | 2005       | 11.9                               | 23.19                                | 17.42                              | 20.21                              | 26.48                             | 19.88                              | 16.97                              | 21.16                               | 18.92                                        | 23.19                                | 27.58                                   | 22.61                                   |
| Serie Amoya   | 2006       | 21.21                              | 16.68                                | 19.88                              | 26.35                              | 25.77                             | 33.74                              | 25.72                              | 20.62                               | 19.59                                        | 20.28                                | 30.36                                   | 23.32                                   |
| Serie Amoya   | 2007       | 17.44                              | 12.83                                | 16.09                              | 36.19                              | 23.17                             | 21.5                               | 20.75                              | 17.81                               | 13.75                                        | 22.02                                | 22.76                                   | 26                                      |
| Serie Amoya   | 2008       | 20.52                              | 23.86                                | 23.03                              | 25.27                              | 28.56                             | 21.03                              | 19.42                              | 24.02                               | 20.86                                        | 24.44                                | 28.43                                   | 24.4                                    |
| Serie Amoya   | 2009       | 23.19                              | 20.93                                | 24.59                              | 29.13                              | 21.48                             | 18.58                              | 13.55                              | 14.17                               | 12.54                                        | 15.51                                | 14.29                                   | 12.11                                   |
| Serie Amoya   | 2010       | 12.36                              | 12.4                                 | 19.92                              | 31.27                              | 26.08                             | 22.21                              | 29.54                              | 16.6                                | 24.54                                        | 27.22                                | 34.05                                   | 34.99                                   |

| <b>Nombre</b>  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Amoya    | 2011       | 20.93                              | 25.73                                | 25.85                              | 45.91                              | 27.68                             | 20.32                              | 18.66                              | 15.59                               | 15.66                                        | 27.78                                | 35.35                                   | 40.76                                   |
| Serie Amoya    | 2012       | 30.12                              | 20.16                                | 18.56                              | 23.38                              | 18.59                             | 14.16                              | 16.94                              | 23.55                               | 19.61                                        | 23.67                                | 17.67                                   | 12.95                                   |
| Serie Amoya    | 2013       | 8.06                               | 11.5                                 | 13.66                              | 11.53                              | 24.05                             | 16.56                              | 15.04                              | 17.13                               | 11.22                                        | 11.97                                | 15.91                                   | 19.04                                   |
| Serie Amoya    | 2014       | 11.55                              | 9.28                                 | 18.3                               | 17.82                              | 20.95                             | 25.64                              | 23.2                               | 15.92                               | 17.73                                        | 17.92                                | 16.85                                   | 14.85                                   |
| Serie Amoya    | 2015       | 10.27                              | 14.28                                | 15.14                              | 16.25                              | 14.34                             | 25.52                              | 19.44                              | 13.1                                | 10.17                                        | 13.65                                | 16.1                                    | 6.26                                    |
| Serie Amoya    | 2016       | 4.29                               | 6.62                                 | 10.45                              | 12.93                              | 17.43                             | 20.6                               | 27.16                              | 12.59                               | 17.26                                        | 16.53                                | 19.28                                   | 15.32                                   |
| Serie Amoya    | 2017       | 17.38                              | 10.22                                | 23.88                              | 21.73                              | 38.53                             | 25.57                              | 25.66                              | 17.76                               | 15.96                                        | 16.21                                | 17.71                                   | 11.41                                   |
| Serie Sogamoso | 1959       | 90.31                              | 62.91                                | 162.07                             | 461.27                             | 821.87                            | 825.54                             | 423.83                             | 351.21                              | 338.27                                       | 978.65                               | 832.88                                  | 363.62                                  |
| Serie Sogamoso | 1960       | 211.05                             | 379.05                               | 142                                | 542.84                             | 936.25                            | 556.55                             | 458.36                             | 413.47                              | 389.84                                       | 690.99                               | 694.98                                  | 423.29                                  |
| Serie Sogamoso | 1961       | 173.18                             | 108.76                               | 227.88                             | 402.04                             | 338.91                            | 352.29                             | 347.01                             | 275.58                              | 340.75                                       | 583.85                               | 1113.53                                 | 294.03                                  |
| Serie Sogamoso | 1962       | 197.46                             | 148.79                               | 277.3                              | 476.49                             | 925.89                            | 699.08                             | 498.28                             | 349.6                               | 375.6                                        | 721.42                               | 935.28                                  | 263.28                                  |
| Serie Sogamoso | 1963       | 161.31                             | 210.62                               | 403.22                             | 984.16                             | 1212.8                            | 603.38                             | 527.42                             | 455.01                              | 308.05                                       | 845.94                               | 928.26                                  | 238.24                                  |
| Serie Sogamoso | 1964       | 121.82                             | 128.08                               | 132.82                             | 538.31                             | 562.05                            | 802.02                             | 533.13                             | 478.97                              | 437.97                                       | 661.1                                | 626.14                                  | 230.8                                   |
| Serie Sogamoso | 1965       | 125.06                             | 86.21                                | 94.41                              | 674.81                             | 979.19                            | 583.31                             | 313.67                             | 368.59                              | 469.15                                       | 683.33                               | 1109.21                                 | 385.53                                  |

| <b>Nombre</b>  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Sogamoso | 1966       | 247.09                             | 97.33                                | 133.15                             | 273.63                             | 657.65                            | 676.96                             | 455.12                             | 374.95                              | 359.41                                       | 1037.78                              | 988.47                                  | 716.24                                  |
| Serie Sogamoso | 1967       | 154.08                             | 214.29                               | 205.44                             | 650.42                             | 984.91                            | 649.02                             | 411.31                             | 300.83                              | 286.04                                       | 572.3                                | 570.58                                  | 302.01                                  |
| Serie Sogamoso | 1968       | 123.98                             | 112.86                               | 138.87                             | 741.7                              | 893.41                            | 1066.05                            | 529.03                             | 310.43                              | 735.45                                       | 836.76                               | 724.22                                  | 227.67                                  |
| Serie Sogamoso | 1969       | 159.15                             | 151.17                               | 145.99                             | 596.9                              | 591.62                            | 409.16                             | 314.96                             | 335.78                              | 427.93                                       | 1102.74                              | 835.25                                  | 402.36                                  |
| Serie Sogamoso | 1970       | 243.31                             | 143.83                               | 108.66                             | 414.55                             | 591.51                            | 343.55                             | 317.12                             | 362                                 | 398.8                                        | 982.11                               | 853.06                                  | 581.8                                   |
| Serie Sogamoso | 1971       | 434.41                             | 464.94                               | 682.25                             | 777.96                             | 1547.29                           | 661.1                              | 523.85                             | 565.83                              | 650.96                                       | 1039.29                              | 725.52                                  | 338.05                                  |
| Serie Sogamoso | 1972       | 518.57                             | 314.42                               | 342.15                             | 821.77                             | 1058.82                           | 676.21                             | 328.77                             | 373.33                              | 358.66                                       | 412.29                               | 553.96                                  | 236.19                                  |
| Serie Sogamoso | 1973       | 108.55                             | 76.07                                | 148.15                             | 288.42                             | 395.02                            | 368.48                             | 304.6                              | 371.39                              | 835.69                                       | 626.04                               | 1032.93                                 | 662.72                                  |
| Serie Sogamoso | 1974       | 371.61                             | 382.61                               | 415.2                              | 687.22                             | 963.55                            | 453.83                             | 359.09                             | 327.15                              | 632.94                                       | 1090.87                              | 1004.98                                 | 318.84                                  |
| Serie Sogamoso | 1975       | 139.73                             | 153.11                               | 344.96                             | 314.53                             | 833.64                            | 485.12                             | 647.83                             | 544.36                              | 578.99                                       | 722.61                               | 1001.53                                 | 724.98                                  |
| Serie Sogamoso | 1976       | 247.63                             | 257.02                               | 552.99                             | 703.72                             | 846.91                            | 602.95                             | 391.14                             | 241.37                              | 224.32                                       | 652.04                               | 516.95                                  | 237.6                                   |
| Serie Sogamoso | 1977       | 84.81                              | 67.98                                | 115.13                             | 197.56                             | 454.15                            | 535.83                             | 337.83                             | 457.28                              | 470.77                                       | 754.33                               | 1064.87                                 | 259.07                                  |

| <b>Nombre</b>  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Sogamoso | 1978       | 130.56                             | 98.19                                | 243.64                             | 1027.42                            | 819.72                            | 682.68                             | 492.13                             | 351                                 | 489.33                                       | 756.16                               | 654.09                                  | 440.45                                  |
| Serie Sogamoso | 1979       | 110.71                             | 112.22                               | 275.36                             | 683.76                             | 858.45                            | 855                                | 395.99                             | 422.97                              | 596.15                                       | 1088.71                              | 1379.72                                 | 460.63                                  |
| Serie Sogamoso | 1980       | 160.56                             | 213.32                               | 122.47                             | 228.42                             | 366.64                            | 554.71                             | 317.33                             | 279.14                              | 337.83                                       | 616.54                               | 679.99                                  | 396.21                                  |
| Serie Sogamoso | 1981       | 160.66                             | 259.93                               | 254.86                             | 670.6                              | 1560.77                           | 1025.16                            | 510.47                             | 430.09                              | 514.04                                       | 712.36                               | 578.13                                  | 256.37                                  |
| Serie Sogamoso | 1982       | 344.74                             | 434.19                               | 432.36                             | 1169.31                            | 1188.41                           | 618.16                             | 377.22                             | 352.83                              | 433.97                                       | 973.58                               | 553.85                                  | 387.15                                  |
| Serie Sogamoso | 1983       | 182.67                             | 113.62                               | 153.33                             | 591.08                             | 830.94                            | 529.79                             | 308.92                             | 332.33                              | 298.13                                       | 398.91                               | 375.17                                  | 419.19                                  |
| Serie Sogamoso | 1984       | 218.71                             | 293.27                               | 172.42                             | 276.12                             | 543.6                             | 515.44                             | 496.99                             | 377.76                              | 601.54                                       | 770.73                               | 680.53                                  | 351.32                                  |
| Serie Sogamoso | 1985       | 183.21                             | 95.82                                | 222.27                             | 496.12                             | 528.71                            | 354.78                             | 275.25                             | 400.74                              | 526.12                                       | 680.63                               | 642.22                                  | 439.48                                  |
| Serie Sogamoso | 1986       | 143.08                             | 205.98                               | 259.07                             | 786.27                             | 698.87                            | 560.43                             | 308.7                              | 261.66                              | 417.79                                       | 1321.78                              | 753.68                                  | 253.67                                  |
| Serie Sogamoso | 1987       | 161.85                             | 158.18                               | 180.62                             | 336.43                             | 769.11                            | 359.31                             | 505.3                              | 545.54                              | 504.97                                       | 1148.06                              | 767.71                                  | 400.31                                  |
| Serie Sogamoso | 1988       | 121.82                             | 187.53                               | 97.22                              | 376.57                             | 447.14                            | 581.69                             | 549.75                             | 606.07                              | 741.38                                       | 730.38                               | 1128.63                                 | 628.41                                  |
| Serie Sogamoso | 1989       | 506.59                             | 451.13                               | 580.39                             | 442.39                             | 572.3                             | 471.85                             | 431.6                              | 421.24                              | 652.69                                       | 661.64                               | 540.15                                  | 395.78                                  |

| <b>Nombre</b>  | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|----------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie Sogamoso | 1990       | 177.6                              | 206.52                               | 232.85                             | 520.51                             | 615.14                            | 351.75                             | 316.36                             | 300.18                              | 295.21                                       | 694.66                               | 626.14                                  | 382.61                                  |
| Serie Sogamoso | 1991       | 133.8                              | 99.27                                | 236.3                              | 332.33                             | 631.22                            | 356.07                             | 302.12                             | 284.86                              | 338.81                                       | 424.05                               | 643.08                                  | 306.44                                  |
| Serie Sogamoso | 1992       | 116.86                             | 124.73                               | 123.01                             | 192.6                              | 365.13                            | 300.07                             | 245.9                              | 302.12                              | 267.48                                       | 315.28                               | 383.58                                  | 381.43                                  |
| Serie Sogamoso | 1993       | 222.27                             | 130.56                               | 180.19                             | 529.79                             | 743.43                            | 351.75                             | 318.31                             | 256.8                               | 443.47                                       | 472.6                                | 646.32                                  | 467.21                                  |
| Serie Sogamoso | 1994       | 175.12                             | 247.2                                | 468.61                             | 838.06                             | 921.68                            | 482.74                             | 393.19                             | 347.87                              | 444.66                                       | 615.89                               | 806.01                                  | 342.58                                  |
| Serie Sogamoso | 1995       | 104.02                             | 74.88                                | 267.48                             | 395.24                             | 520.94                            | 591.18                             | 418.22                             | 629.06                              | 468.5                                        | 800.83                               | 610.5                                   | 426.96                                  |
| Serie Sogamoso | 1996       | 197.46                             | 246.01                               | 566.48                             | 522.24                             | 804.93                            | 728.33                             | 729.4                              | 463.97                              | 422.97                                       | 724.01                               | 493.1                                   | 342.04                                  |
| Serie Sogamoso | 1997       | 197.78                             | 288.96                               | 231.66                             | 534.11                             | 580.93                            | 469.69                             | 294.67                             | 222.06                              | 331.47                                       | 348.09                               | 522.34                                  | 167.14                                  |
| Serie Sogamoso | 1998       | 90.64                              | 152.14                               | 205.01                             | 749.91                             | 784.43                            | 534.11                             | 467.21                             | 454.26                              | 556.76                                       | 775.8                                | 729.4                                   | 556.76                                  |
| Serie Sogamoso | 1999       | 360.39                             | 619.35                               | 522.24                             | 678.69                             | 601                               | 512.53                             | 400.31                             | 443.47                              | 634.45                                       | 993.76                               | 867.52                                  | 633.37                                  |
| Serie Sogamoso | 2000       | 285.94                             | 335.57                               | 487.71                             | 525.47                             | 632.29                            | 571.87                             | 442.39                             | 354.99                              | 608.56                                       | 624.74                               | 568.63                                  | 302.12                                  |
| Serie Sogamoso | 2001       | 151.06                             | 113.3                                | 247.09                             | 246.01                             | 462.89                            | 369.02                             | 267.59                             | 276.22                              | 385.2                                        | 596.69                               | 598.85                                  | 373.33                                  |

| <b>Nombre</b>         | <b>Año</b> | <b>Caudal<br/>Enero<br/>(m3/s)</b> | <b>Caudal<br/>Febrero<br/>(m3/s)</b> | <b>Caudal<br/>Marzo<br/>(m3/s)</b> | <b>Caudal<br/>Abril<br/>(m3/s)</b> | <b>Caudal<br/>Mayo(m<br/>3/s)</b> | <b>Caudal<br/>Junio<br/>(m3/s)</b> | <b>Caudal<br/>Julio<br/>(m3/s)</b> | <b>Caudal<br/>Agosto<br/>(m3/s)</b> | <b>Caudal<br/>Septiem<br/>bre<br/>(m3/s)</b> | <b>Caudal<br/>Octubre<br/>(m3/s)</b> | <b>Caudal<br/>Noviemb<br/>re (m3/s)</b> | <b>Caudal<br/>Diciemb<br/>re (m3/s)</b> |
|-----------------------|------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|
| Serie<br>Sogamos<br>o | 2002       | 121.93                             | 105.74                               | 343.12                             | 694.88                             | 571.87                            | 711.06                             | 281.62                             | 249.25                              | 282.7                                        | 356.07                               | 404.63                                  | 282.7                                   |
| Serie<br>Sogamos<br>o | 2003       | 88.15                              | 113.83                               | 163.36                             | 592.26                             | 551.69                            | 569.71                             | 338.48                             | 383.05                              | 447.57                                       | 709.66                               | 690.99                                  | 423.83                                  |
| Serie<br>Sogamos<br>o | 2004       | 201.46                             | 108.42                               | 147.02                             | 483.32                             | 724.77                            | 434.37                             | 285.66                             | 275.74                              | 426.89                                       | 668.87                               | 853.63                                  | 323.07                                  |
| Serie<br>Sogamos<br>o | 2005       | 215.92                             | 282.28                               | 157.25                             | 406.46                             | 629.74                            | 445.92                             | 306.16                             | 279.36                              | 308.3                                        | 654.11                               | 823.46                                  | 401.77                                  |
| Serie<br>Sogamos<br>o | 2006       | 257.13                             | 153.65                               | 405.43                             | 697.51                             | 893.48                            | 640.19                             | 316.58                             | 273.12                              | 337.42                                       | 624.24                               | 760.01                                  | 494.24                                  |
| Serie<br>Sogamos<br>o | 2007       | 191.33                             | 86.68                                | 298.49                             | 633.25                             | 654.84                            | 481.41                             | 362.4                              | 447.99                              | 429.2                                        | 869.18                               | 658.88                                  | 398.44                                  |
| Serie<br>Sogamos<br>o | 2008       | 239.23                             | 176.47                               | 207.59                             | 332.8                              | 691.52                            | 518.44                             | 412.88                             | 505.64                              | 567.13                                       | 715.45                               | 765.87                                  | 356.17                                  |
| Serie<br>Sogamos<br>o | 2009       | 292.84                             | 369.05                               | 646.74                             | 620.45                             | 606.6                             | 488.63                             | 286.02                             | 410.63                              | 308.18                                       | 380.59                               | 591.1                                   | 209.52                                  |
| Serie<br>Sogamos<br>o | 2010       | 84.15                              | 87.84                                | 179.76                             | 490.04                             | 709.73                            | 670.79                             | 1047.71                            | 687.07                              | 935.28                                       | 946.01                               | 1132.14                                 | 736.68                                  |
| Serie<br>Sogamos<br>o | 2011       | 335.95                             | 313.59                               | 747.83                             | 1586.8                             | 1158.31                           | 761.37                             | 514.16                             | 462.54                              | 436.56                                       | 771.41                               | 909.69                                  | 941.12                                  |
| Serie<br>Sogamos<br>o | 2012       | 458.16                             | 342.46                               | 401.75                             | 1156.74                            | 767.05                            | 389.59                             | 353.73                             | 394.8                               | 294.58                                       | 480.87                               | 325.66                                  | 253.74                                  |
| Serie<br>Sogamos<br>o | 2013       | 34.46                              | 155.5                                | 166.14                             | 242.12                             | 620.81                            | 247.28                             | 227.89                             | 497.95                              | 418.84                                       | 458.97                               | 536.23                                  | 452.92                                  |

| Nombre         | Año  | Caudal Enero (m3/s) | Caudal Febrero (m3/s) | Caudal Marzo (m3/s) | Caudal Abril (m3/s) | Caudal Mayo(m3/s) | Caudal Junio (m3/s) | Caudal Julio (m3/s) | Caudal Agosto (m3/s) | Caudal Septiembre (m3/s) | Caudal Octubre (m3/s) | Caudal Noviembre (m3/s) | Caudal Diciembre (m3/s) |
|----------------|------|---------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| Serie Sogamoso | 2014 | 110.54              | 164.03                | 159.68              | 312.92              | 585.03            | 235.27              | 220.14              | 330.52               | 318.5                    | 537.69                | 777.03                  | 617.87                  |
| Serie Sogamoso | 2015 | 169.21              | 173.06                | 209.69              | 624.97              | 260.33            | 294.27              | 244.4               | 279.36               | 218.03                   | 251.71                | 358.95                  | 176.45                  |
| Serie Sogamoso | 2016 | 141.98              | 133.93                | 159.33              | 381.08              | 476.48            | 312.34              | 298.16              | 256.43               | 263.41                   | 470.42                | 620.35                  | 582.14                  |
| Serie Sogamoso | 2017 | 290.75              | 155.8                 | 534.28              | 641.48              | 906.91            | 631.61              | 451.49              | 326.53               | 335.52                   | 414                   | 659.2                   | 267.61                  |

#### Formato 5. Embalses

| Nombre      | Mínimi Técnico (Mm3) | Máximo Técnico (Mm3) |
|-------------|----------------------|----------------------|
| Punchina    | 8.2                  | 56.59                |
| San Lorenzo | 17.2                 | 179.06               |
| Amani       | 49.92                | 491.3                |
| Guarino     | 0                    | 0                    |
| Manso       | 0                    | 0                    |
| Topocoro    | 581.59               | 3337.9               |
| Amoya       | 0                    | 0                    |

#### Formato 6. Filtraciones

| Nombre | m3/s |
|--------|------|
| Amoya  | 1    |

### Formato 7. Curvas de Operación Embalses

Formato No Registrado

### Formato 8. Capacidad Arcos de Descarga

| Nombre  | Flujo Mínimo (m3/s) | Flujo Máximo (m3/s) | Fecha Entrada | Fecha Salida |
|---------|---------------------|---------------------|---------------|--------------|
| Guarino | 0                   | 71                  | 31/08/2010    | 30/11/2050   |
| Manso   | 0                   | 22                  | 08/06/2013    | 30/11/2050   |

### Formato 9. Arco de Bombeo

Formato No Registrado

### Formato 10. Capacidad Máxima Arco Generación

| Nombre     | Flujo Mínimo (m3/s) | Flujo Máximo (m3/s) |
|------------|---------------------|---------------------|
| San Carlos | 0                   | 276.6               |
| Jaguas     | 0                   | 86.8                |
| Miel I     | 17                  | 220                 |
| Sogamoso   | 80                  | 630                 |
| Amoya      | 0                   | 18.4                |

### Formato 11. Descarga Máxima Embalse Bogotá

Formato No Registrado

### Formato 12. Capacidad Túneles

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

| Nombre      | Campo                 | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|-------------|-----------------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| Termocentro | Guajira/Cusiana/Otros | 8760            | 710830                   | 710830               | 642040                 | 710830               | 687900               | 710830              | 687900               | 710830               | 710830                | 687900                    | 710830                 | 687900                   |

**Formato 15. Transporte Gas Natural**

| Nombre      | Punto Entrada         | Punto Salida | Transporte Diciembre (MBTU) | Transporte Enero (MBTU) | Transporte Febrero (MBTU) | Transporte Marzo (MBTU) | Transporte Abril (MBTU) | Transporte Mayo (MBTU) | Transporte Junio (MBTU) | Transporte Julio (MBTU) | Transporte Agosto (MBTU) | Transporte Septiembre (MBTU) | Transporte Octubre (MBTU) | Transporte Noviembre (MBTU) |
|-------------|-----------------------|--------------|-----------------------------|-------------------------|---------------------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|--------------------------|------------------------------|---------------------------|-----------------------------|
| Termocentro | Guajira/Cusiana/Otros | Termocentro  | 710830                      | 710830                  | 642040                    | 710830                  | 687900                  | 710830                 | 687900                  | 710830                  | 710830                   | 687900                       | 710830                    | 687900                      |

**Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

| Nombre   | Capacidad Efectiva Neta (MW) | Disponibilidad (%) |
|----------|------------------------------|--------------------|
| Calderas | 19.9                         | 35                 |

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

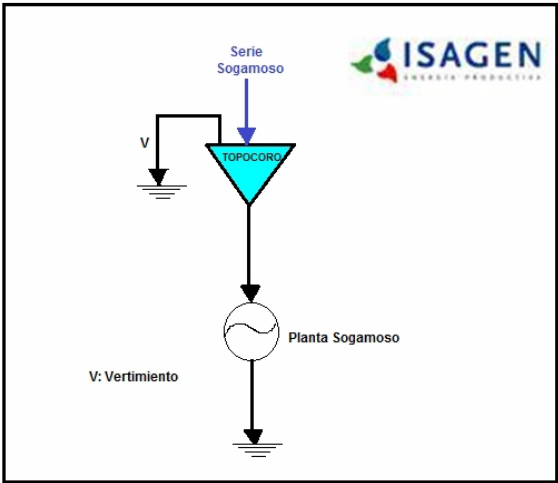
**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

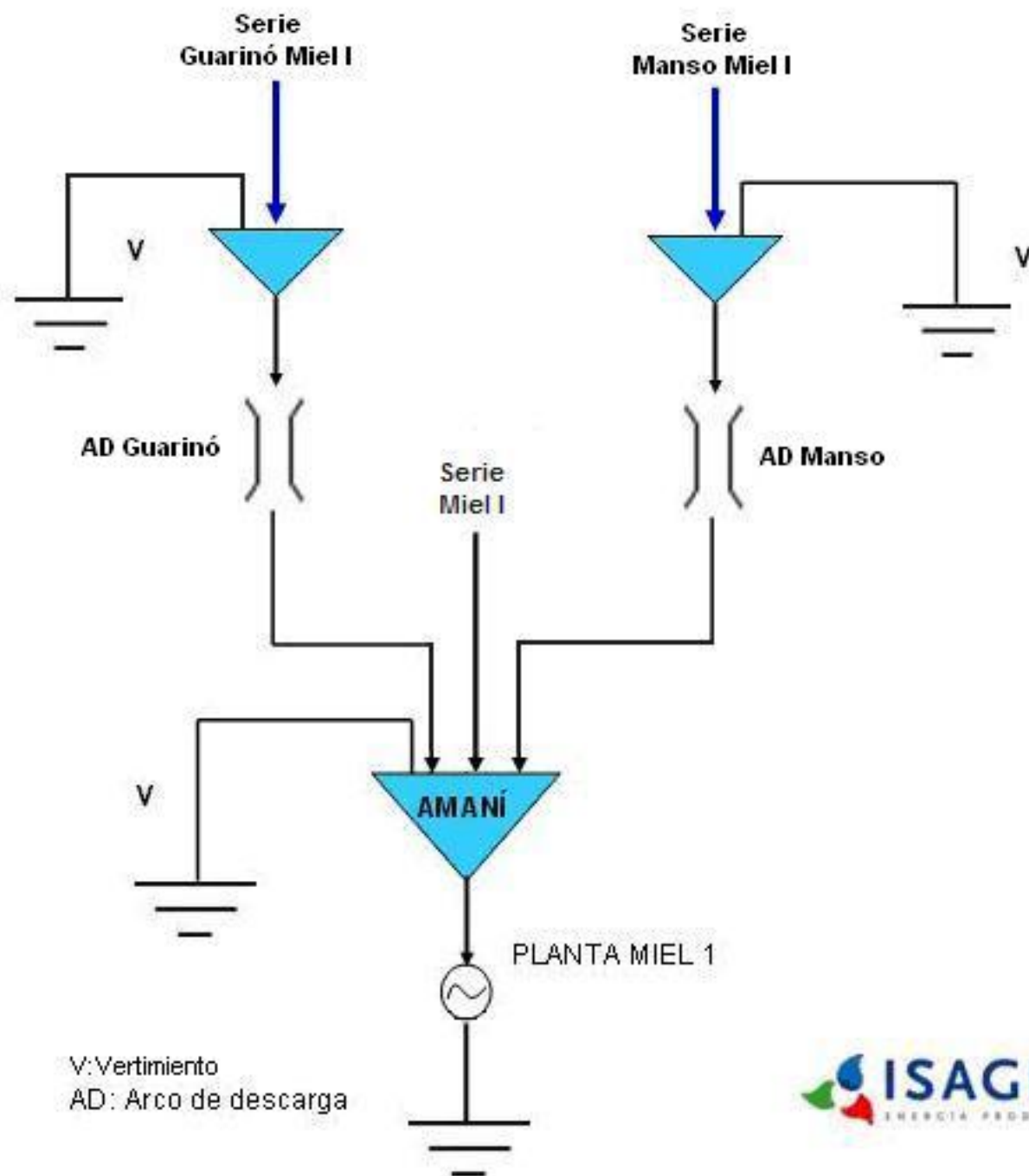
Formato No Registrado

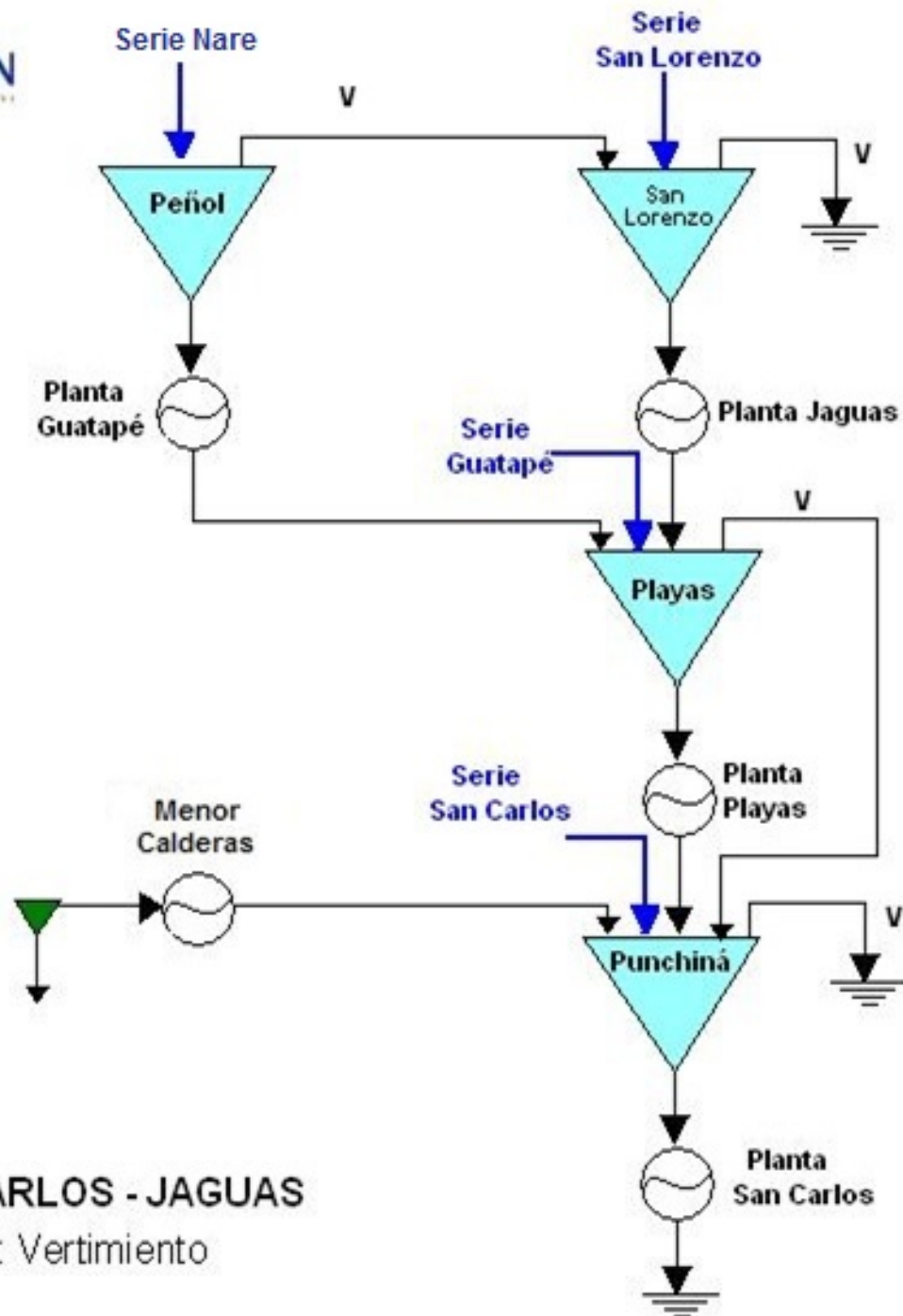
**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

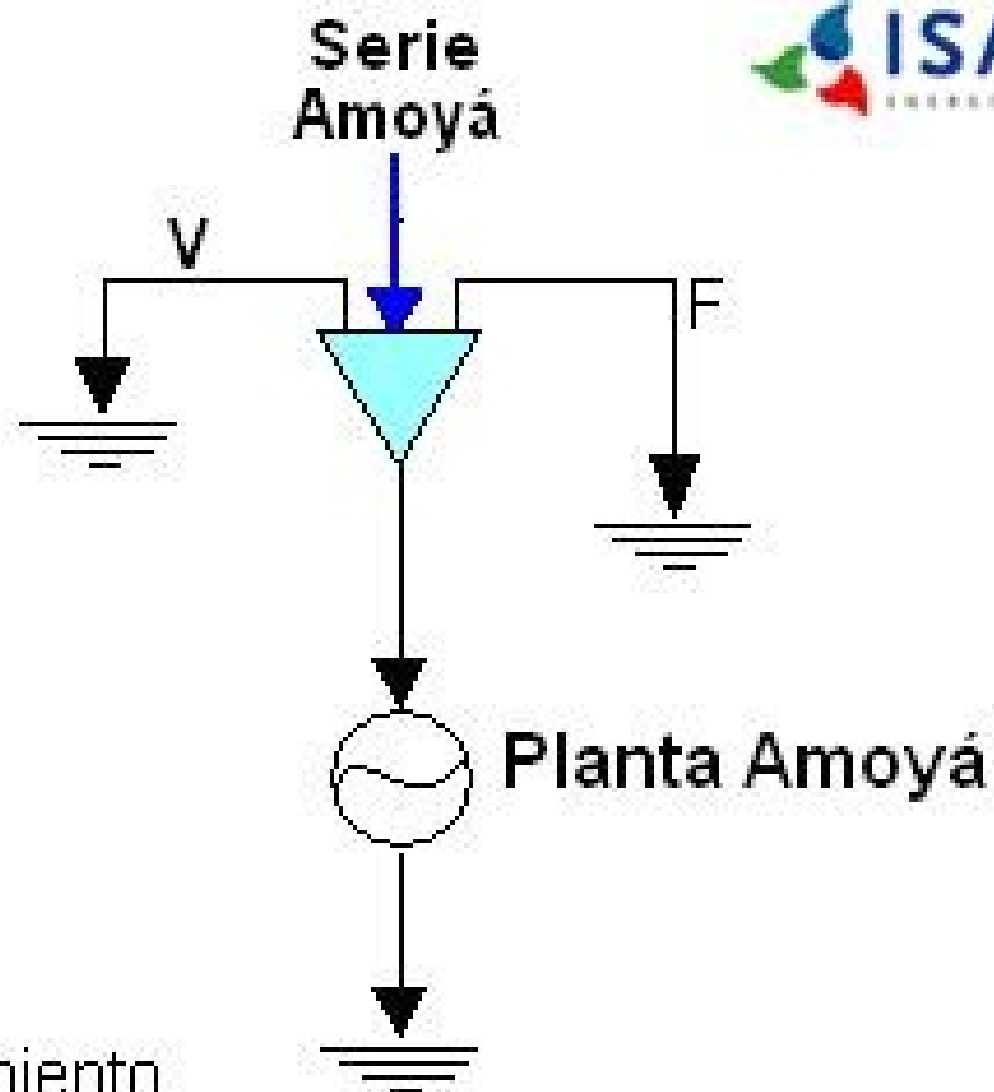
Formato No Registrado

**Anexos del Agente ISAGEN S.A. E.S.P.**









V: Vertimiento  
F: Filtraciones

## **JEMEIWAA KA I SAS**

### **Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

### **Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

### **Formato 3. Plantas o Unidades Térmicas**

Formato No Registrado

### **Formato 4. Caudal Medio Mensual**

Formato No Registrado

### **Formato 5. Embalses**

Formato No Registrado

### **Formato 6. Filtraciones**

Formato No Registrado

### **Formato 7. Curvas de Operación Embalses**

Formato No Registrado

### **Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

### **Formato 9. Arco de Bombeo**

Formato No Registrado

### **Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

| Nombre         | CEN   | IHF  | FUNCONVERSION |
|----------------|-------|------|---------------|
| CASA ELÉCTRICA | 176.3 | 5.25 | 0             |

**Formato 21. Serie Histórica de Velocidad de Viento**

| <b>Nombre</b>  | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|----------------|-------------|------------|------------------|
| CASA ELÉCTRICA | 2008        | 1          | 9.59             |
| CASA ELÉCTRICA | 2008        | 2          | 10.3             |
| CASA ELÉCTRICA | 2008        | 3          | 10.13            |
| CASA ELÉCTRICA | 2008        | 4          | 10.18            |
| CASA ELÉCTRICA | 2008        | 5          | 9.66             |
| CASA ELÉCTRICA | 2008        | 6          | 10.66            |
| CASA ELÉCTRICA | 2008        | 7          | 10.03            |
| CASA ELÉCTRICA | 2008        | 8          | 7.61             |
| CASA ELÉCTRICA | 2008        | 9          | 6.75             |
| CASA ELÉCTRICA | 2008        | 10         | 7.19             |
| CASA ELÉCTRICA | 2008        | 11         | 7.09             |
| CASA ELÉCTRICA | 2008        | 12         | 8.93             |
| CASA ELÉCTRICA | 2009        | 1          | 9.49             |
| CASA ELÉCTRICA | 2009        | 2          | 10.48            |
| CASA ELÉCTRICA | 2009        | 3          | 10.3             |
| CASA ELÉCTRICA | 2009        | 4          | 10.52            |
| CASA ELÉCTRICA | 2009        | 5          | 9.23             |
| CASA ELÉCTRICA | 2009        | 6          | 9.33             |
| CASA ELÉCTRICA | 2009        | 7          | 10.99            |
| CASA ELÉCTRICA | 2009        | 8          | 10.02            |
| CASA ELÉCTRICA | 2009        | 9          | 8.84             |
| CASA ELÉCTRICA | 2009        | 10         | 8.48             |
| CASA ELÉCTRICA | 2009        | 11         | 7.92             |
| CASA ELÉCTRICA | 2009        | 12         | 9.3              |
| CASA ELÉCTRICA | 2010        | 1          | 10.12            |
| CASA ELÉCTRICA | 2010        | 2          | 8.94             |
| CASA ELÉCTRICA | 2010        | 3          | 9.19             |

| <b>Nombre</b>  | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|----------------|-------------|------------|------------------|
| CASA ELÉCTRICA | 2010        | 4          | 8.88             |
| CASA ELÉCTRICA | 2010        | 5          | 8.95             |
| CASA ELÉCTRICA | 2010        | 6          | 8.3              |
| CASA ELÉCTRICA | 2010        | 7          | 8.75             |
| CASA ELÉCTRICA | 2010        | 8          | 7.55             |
| CASA ELÉCTRICA | 2010        | 9          | 5.43             |
| CASA ELÉCTRICA | 2010        | 10         | 6.36             |
| CASA ELÉCTRICA | 2010        | 11         | 7.01             |
| CASA ELÉCTRICA | 2010        | 12         | 7.76             |
| CASA ELÉCTRICA | 2011        | 1          | 9.32             |
| CASA ELÉCTRICA | 2011        | 2          | 9.97             |
| CASA ELÉCTRICA | 2011        | 3          | 9.4              |
| CASA ELÉCTRICA | 2011        | 4          | 9.07             |
| CASA ELÉCTRICA | 2011        | 5          | 7.58             |
| CASA ELÉCTRICA | 2011        | 6          | 8.55             |
| CASA ELÉCTRICA | 2011        | 7          | 8.8              |
| CASA ELÉCTRICA | 2011        | 8          | 7.58             |
| CASA ELÉCTRICA | 2011        | 9          | 6.73             |
| CASA ELÉCTRICA | 2011        | 10         | 5.99             |
| CASA ELÉCTRICA | 2011        | 11         | 6.49             |
| CASA ELÉCTRICA | 2011        | 12         | 9.23             |
| CASA ELÉCTRICA | 2012        | 1          | 9.66             |
| CASA ELÉCTRICA | 2012        | 2          | 9.78             |
| CASA ELÉCTRICA | 2012        | 3          | 10.71            |
| CASA ELÉCTRICA | 2012        | 4          | 8.51             |
| CASA ELÉCTRICA | 2012        | 5          | 9.17             |
| CASA ELÉCTRICA | 2012        | 6          | 9.77             |
| CASA ELÉCTRICA | 2012        | 7          | 10.42            |
| CASA ELÉCTRICA | 2012        | 8          | 9.13             |
| CASA ELÉCTRICA | 2012        | 9          | 8.66             |
| CASA ELÉCTRICA | 2012        | 10         | 5.9              |
| CASA ELÉCTRICA | 2012        | 11         | 7.56             |

| <b>Nombre</b>  | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|----------------|-------------|------------|------------------|
| CASA ELÉCTRICA | 2012        | 12         | 8.89             |
| CASA ELÉCTRICA | 2013        | 1          | 10.53            |
| CASA ELÉCTRICA | 2013        | 2          | 10.27            |
| CASA ELÉCTRICA | 2013        | 3          | 10.69            |
| CASA ELÉCTRICA | 2013        | 4          | 10.54            |
| CASA ELÉCTRICA | 2013        | 5          | 9.51             |
| CASA ELÉCTRICA | 2013        | 6          | 10.87            |
| CASA ELÉCTRICA | 2013        | 7          | 10.91            |
| CASA ELÉCTRICA | 2013        | 8          | 9.32             |
| CASA ELÉCTRICA | 2013        | 9          | 7.16             |
| CASA ELÉCTRICA | 2013        | 10         | 7.86             |
| CASA ELÉCTRICA | 2013        | 11         | 7.5              |
| CASA ELÉCTRICA | 2013        | 12         | 9.33             |
| CASA ELÉCTRICA | 2014        | 1          | 10.62            |
| CASA ELÉCTRICA | 2014        | 2          | 10.75            |
| CASA ELÉCTRICA | 2014        | 3          | 10.27            |
| CASA ELÉCTRICA | 2014        | 4          | 10.99            |
| CASA ELÉCTRICA | 2014        | 5          | 10.1             |
| CASA ELÉCTRICA | 2014        | 6          | 11.64            |
| CASA ELÉCTRICA | 2014        | 7          | 12.05            |
| CASA ELÉCTRICA | 2014        | 8          | 9.61             |
| CASA ELÉCTRICA | 2014        | 9          | 8.94             |
| CASA ELÉCTRICA | 2014        | 10         | 7.72             |
| CASA ELÉCTRICA | 2014        | 11         | 8                |
| CASA ELÉCTRICA | 2014        | 12         | 9.48             |
| CASA ELÉCTRICA | 2015        | 1          | 10.54            |
| CASA ELÉCTRICA | 2015        | 2          | 9.96             |
| CASA ELÉCTRICA | 2015        | 3          | 10.99            |
| CASA ELÉCTRICA | 2015        | 4          | 10.77            |
| CASA ELÉCTRICA | 2015        | 5          | 11.34            |
| CASA ELÉCTRICA | 2015        | 6          | 11.94            |
| CASA ELÉCTRICA | 2015        | 7          | 11.79            |

| <b>Nombre</b>  | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|----------------|-------------|------------|------------------|
| CASA ELÉCTRICA | 2015        | 8          | 10.99            |
| CASA ELÉCTRICA | 2015        | 9          | 9.93             |
| CASA ELÉCTRICA | 2015        | 10         | 7.94             |
| CASA ELÉCTRICA | 2015        | 11         | 8.73             |
| CASA ELÉCTRICA | 2015        | 12         | 10.94            |
| CASA ELÉCTRICA | 2016        | 1          | 9.1              |
| CASA ELÉCTRICA | 2016        | 2          | 10.88            |
| CASA ELÉCTRICA | 2016        | 3          | 10.79            |
| CASA ELÉCTRICA | 2016        | 4          | 9.2              |
| CASA ELÉCTRICA | 2016        | 5          | 8.75             |
| CASA ELÉCTRICA | 2016        | 6          | 10.85            |
| CASA ELÉCTRICA | 2016        | 7          | 11.2             |
| CASA ELÉCTRICA | 2016        | 8          | 9.8              |
| CASA ELÉCTRICA | 2016        | 9          | 8.87             |
| CASA ELÉCTRICA | 2016        | 10         | 5.75             |
| CASA ELÉCTRICA | 2016        | 11         | 5.27             |
| CASA ELÉCTRICA | 2016        | 12         | 9.19             |
| CASA ELÉCTRICA | 2017        | 1          | 9.08             |
| CASA ELÉCTRICA | 2017        | 2          | 9.34             |
| CASA ELÉCTRICA | 2017        | 3          | 9.8              |
| CASA ELÉCTRICA | 2017        | 4          | 9.8              |
| CASA ELÉCTRICA | 2017        | 5          | 9.13             |
| CASA ELÉCTRICA | 2017        | 6          | 10.15            |
| CASA ELÉCTRICA | 2017        | 7          | 10.73            |
| CASA ELÉCTRICA | 2017        | 8          | 9.05             |
| CASA ELÉCTRICA | 2017        | 9          | 6.37             |
| CASA ELÉCTRICA | 2017        | 10         | 7.02             |
| CASA ELÉCTRICA | 2017        | 11         | 6.57             |
| CASA ELÉCTRICA | 2017        | 12         | 9.23             |
| CASA ELÉCTRICA | 2018        | 1          | 9.69             |
| CASA ELÉCTRICA | 2018        | 2          | 10.96            |
| CASA ELÉCTRICA | 2018        | 3          | 10.21            |

| <b>Nombre</b>  | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|----------------|-------------|------------|------------------|
| CASA ELÉCTRICA | 2018        | 4          | 10               |
| CASA ELÉCTRICA | 2018        | 5          | 9.84             |
| CASA ELÉCTRICA | 2018        | 6          | 10.95            |
| CASA ELÉCTRICA | 2018        | 7          | 11.33            |
| CASA ELÉCTRICA | 2018        | 8          | 10.97            |
| CASA ELÉCTRICA | 2018        | 9          | 9.06             |

### **Formato 22. Plantas Geotérmicas**

Formato No Registrado

### **Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

### **Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

### **Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

### **Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente JEMEIWAA KA I SAS**

**Maaestria**

**Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

**Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

**Formato 3. Plantas o Unidades Térmicas**

| Nombre  | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|---------|------------------------------|-----------------------|---------|
| PW-CON3 | 150                          | 9.312                 | 20      |

**Formato 4. Caudal Medio Mensual**

Formato No Registrado

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

| Nombre  | Campo                           | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|---------|---------------------------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| PW-CON3 | Bloque Esperanza, Córdoba-Sucre | 8760            | 831375.36                | 831375.36            | 750919.68              | 831375.36            | 804556.8             | 831375.36           | 804556.8             | 831375.36            | 831375.36             | 804556.8                  | 831375.36              | 804556.8                 |

**Formato 15. Transporte Gas Natural**

| Nombre      | Punto<br>Entrada                                                                                                                                            | Punto<br>Salida | Transpo<br>rte<br>Diciemb<br>re(MBT<br>U) | Transpo<br>rte<br>Enero<br>(MBTU) | Transpo<br>rte<br>Febrero<br>(MBTU) | Transpo<br>rte<br>Marzo<br>(MBTU) | Transpo<br>rte<br>Abril<br>(MBTU) | Transpo<br>rte<br>Mayo<br>(MBTU) | Transpo<br>rte<br>Junio<br>(MBTU) | Transpo<br>rte Julio<br>(MBTU) | Transpo<br>rte<br>Agosto<br>(MBTU) | Transpo<br>rte<br>Septiem<br>bre<br>(MBTU) | Transpo<br>rte<br>Octubre<br>(MBTU) | Transpo<br>rte<br>Noviem<br>bre<br>(MBTU) |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|--------------------------------|------------------------------------|--------------------------------------------|-------------------------------------|-------------------------------------------|
| PW-<br>CON3 | No se<br>requiere<br>transport<br>e pues la<br>planta<br>estará<br>ubicada<br>a boca<br>de pozo<br>en la<br>Estación<br>Jobo del<br>Bloque<br>Esperanz<br>a |                 |                                           |                                   |                                     |                                   |                                   |                                  |                                   |                                |                                    |                                            |                                     |                                           |

#### **Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

#### **Formato 17. Almacenamiento Combustible**

Formato No Registrado

#### **Formato 18. Energía Contratada**

Formato No Registrado

#### **Formato 19. Plantas Menores**

Formato No Registrado

#### **Formato 20. Plantas Eólicas**

Formato No Registrado

### **Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

### **Formato 22. Plantas Geotérmicas**

Formato No Registrado

### **Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

### **Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

### **Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

### **Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente Maaestria**

**Oleoducto de los Llanos Orientales S.A.**

**Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

**Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

**Formato 3. Plantas o Unidades Térmicas**

| Nombre                           | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|----------------------------------|------------------------------|-----------------------|---------|
| TermoProyectos (Estación Jagüey) | 19.4                         | 8.0091                | 20      |
| TermoEBR (Estación Rubiales)     | 19.4                         | 8.0091                | 20      |

**Formato 4. Caudal Medio Mensual**

Formato No Registrado

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

| Nombre                           | Combustible | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|----------------------------------|-------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| TermoProyectos (Estación Jagüey) | Crudo       | 8760            | 131572.49                | 131572.49            | 118839.67              | 131572.49            | 127328.21            | 131572.49           | 127328.21            | 131572.49            | 131572.49             | 127328.21                 | 131572.49              | 127328.21                |

| Nombre                        | Combustible | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|-------------------------------|-------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| TermoE BR (Estación Rubiales) | Crudo       | 8760            | 131572.49                | 131572.49            | 118839.67              | 131572.49            | 127328.21            | 131572.49           | 127328.21            | 131572.49            | 131572.49             | 127328.21                 | 131572.49              | 127328.21                |

## Formato 17. Almacenamiento Combustible

| Nombre                           | Combustible | Capacidad Almacenamiento | Cantidad Almacenada (MBTU) |
|----------------------------------|-------------|--------------------------|----------------------------|
| TermoProyectos (Estación Jagüey) | Crudo       | 11283.19                 | 9590.69                    |
| TermoEBR (Estación Rubiales)     | Crudo       | 11283.19                 | 7892.5                     |

## Formato 18. Energía Contratada

[illegible]

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente Oleoducto de los Llanos Orientales S.A.**

**PROELECTRICA**

**Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

**Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

**Formato 3. Plantas o Unidades Térmicas**

| Nombre       | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|--------------|------------------------------|-----------------------|---------|
| PROELECTRICA | 90                           | 7.9419                | 9.4251  |

**Formato 4. Caudal Medio Mensual**

Formato No Registrado

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

| Nombre        | Campo                       | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|---------------|-----------------------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| PROEL ECTRICA | Bloque VIM-21 Geoproduction | 8760            | 412796                   | 412796               | 372848                 | 412796               | 399480               | 412796              | 399480               | 412796               | 412796                | 399480                    | 412796                 | 399480                   |
| PROEL ECTRICA | Bloque La Esperanza         | 8760            | 65100                    | 65100                | 58800                  | 65100                | 63000                | 65100               | 63000                | 65100                | 65100                 | 63000                     | 65100                  | 63000                    |

**Formato 15. Transporte Gas Natural**

| Nombre               | Punto<br>Entrada | Punto<br>Salida      | Transpo<br>rte<br>Diciemb<br>re(MBT<br>U) | Transpo<br>rte<br>Enero<br>(MBTU) | Transpo<br>rte<br>Febrero<br>(MBTU) | Transpo<br>rte<br>Marzo<br>(MBTU) | Transpo<br>rte<br>Abril<br>(MBTU) | Transpo<br>rte<br>Mayo<br>(MBTU) | Transpo<br>rte<br>Junio<br>(MBTU) | Transpo<br>rte Julio<br>(MBTU) | Transpo<br>rte Agosto<br>(MBTU) | Transpo<br>rte Septiem<br>bre<br>(MBTU) | Transpo<br>rte Octubre<br>(MBTU) | Transpo<br>rte Noviem<br>bre<br>(MBTU) |
|----------------------|------------------|----------------------|-------------------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|--------------------------------|---------------------------------|-----------------------------------------|----------------------------------|----------------------------------------|
| PROEL<br>ECTRIC<br>A | Jobo             | PROEL<br>ECTRIC<br>A | 412796                                    | 412796                            | 372848                              | 412796                            | 399480                            | 412796                           | 399480                            | 412796                         | 412796                          | 399480                                  | 412796                           | 399480                                 |
| PROEL<br>ECTRIC<br>A | Jobo             | PROEL<br>ECTRIC<br>A | 65100                                     | 65100                             | 58800                               | 65100                             | 63000                             | 65100                            | 63000                             | 65100                          | 65100                           | 63000                                   | 65100                            | 63000                                  |

#### **Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

#### **Formato 17. Almacenamiento Combustible**

Formato No Registrado

#### **Formato 18. Energía Contratada**

Formato No Registrado

#### **Formato 19. Plantas Menores**

Formato No Registrado

#### **Formato 20. Plantas Eólicas**

Formato No Registrado

#### **Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

#### **Formato 22. Plantas Geotérmicas**

Formato No Registrado

### **Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

### **Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

### **Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

### **Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente PROELECTRICA**

**PROELECTRICA DEL ARCHIPIÉLAGO S.A.S. E.S.P.**

**Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

**Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

**Formato 3. Plantas o Unidades Térmicas**

| Nombre      | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|-------------|------------------------------|-----------------------|---------|
| El Tesorito | 200                          | 9.374                 | 5.0001  |

**Formato 4. Caudal Medio Mensual**

Formato No Registrado

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

Formato No Registrado

Formato No Registrado

Formato No Registrado

Formato No Registrado

| Nombre      | Campo | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|-------------|-------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| El Tesorito | VIM5  | 8760            | 1394851.2                | 1394851.2            | 1259865.6              | 1394851.2            | 1349856              | 1394851.2           | 1349856              | 1394851.2            | 1394851.2             | 1349856                   | 1394851.2              | 1349856                  |

[illegible]

**Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado



**Anexos del Agente PROELECTRICA DEL ARCHIPIÉLAGO S.A.S. E.S.P.**

**PUERTO SOLO**

**Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

**Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

**Formato 3. Plantas o Unidades Térmicas**

| Nombre     | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|------------|------------------------------|-----------------------|---------|
| TERMOSOLO2 | 80                           | 8.322                 | 20      |
| TERMOSOLO1 | 148                          | 8.322                 | 20      |

**Formato 4. Caudal Medio Mensual**

Formato No Registrado

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

| Nombre      | Combustible | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|-------------|-------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| TERMO SOLO2 | GLP         | 8760            | 495325.44                | 495325.44            | 447390.72              | 495325.44            | 479347.2             | 495325.44           | 479347.2             | 495325.44            | 495325.44             | 479347.2                  | 495325.44              | 479347.2                 |
| TERMO SOLO1 | GLP         | 8760            | 916352.06                | 916352.06            | 827672.83              | 916352.06            | 886792.32            | 916352.06           | 886792.32            | 916352.06            | 916352.06             | 886792.32                 | 916352.06              | 886792.32                |

**Formato 17. Almacenamiento Combustible**

| Nombre     | Combustible | Capacidad Almacenamiento | Cantidad Almacenada (MBTU) |
|------------|-------------|--------------------------|----------------------------|
| TERMOSOLO2 | GLP         | 1000000                  | 0                          |
| TERMOSOLO1 | GLP         | 1000000                  | 0                          |

#### **Formato 18. Energía Contratada**

Formato No Registrado

#### **Formato 19. Plantas Menores**

Formato No Registrado

#### **Formato 20. Plantas Eólicas**

Formato No Registrado

#### **Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

#### **Formato 22. Plantas Geotérmicas**

Formato No Registrado

#### **Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

#### **Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

#### **Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

#### **Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente PUERTO SOLO**

Promotora Miel II S.A.S E.S.P

Formato 1. Plantas o Unidades Hidráulicas

| Nombre  | Capacidad Efectiva Neta (MW) | Eficiencia (MW/m3/s) | IHF (%) |
|---------|------------------------------|----------------------|---------|
| Miel II | 116.79                       | 3.28                 | 15      |

Formato 2. Topología Plantas Hidráulicas

| Nombre  | Elemento Clase | Elemento Nombre | Aportes Rio | Aportes Embalse | Aportes Planta | Aportes Otro | Descarga Rio | Descarga Embalse | Descargas Planta | Descarga Otro | Vertimientos Rio | Vertimientos Embalse | Vertimientos Planta | Vertimiento Otro |
|---------|----------------|-----------------|-------------|-----------------|----------------|--------------|--------------|------------------|------------------|---------------|------------------|----------------------|---------------------|------------------|
| Miel II | E              | Miel II         | Miel        |                 |                |              |              |                  | Miel II          |               | Miel             |                      |                     |                  |
| Miel II | P              | Miel II         |             | Miel II         |                |              | Miel         |                  |                  |               |                  |                      |                     |                  |

Formato 3. Plantas o Unidades Térmicas

Formato No Registrado

Formato 4. Caudal Medio Mensual

| Nombre | Año  | Caudal Enero (m3/s) | Caudal Febrero (m3/s) | Caudal Marzo (m3/s) | Caudal Abril (m3/s) | Caudal Mayo(m3/s) | Caudal Junio (m3/s) | Caudal Julio (m3/s) | Caudal Agosto (m3/s) | Caudal Septiembre (m3/s) | Caudal Octubre (m3/s) | Caudal Noviembre (m3/s) | Caudal Diciembre (m3/s) |
|--------|------|---------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| Miel   | 1978 | 16.11               | 13.6                  | 31.98               | 52.93               | 31.36             | 29.19               | 26.76               | 15.7                 | 23.21                    | 36.87                 | 31.96                   | 31.71                   |
| Miel   | 1979 | 26.72               | 29.24                 | 38.56               | 52.28               | 38.3              | 30.58               | 14.65               | 19.75                | 40.58                    | 37.28                 | 51.3                    | 25.3                    |
| Miel   | 1980 | 24.26               | 28.11                 | 14.63               | 20.64               | 42.83             | 26.71               | 14.71               | 13.75                | 17.74                    | 36.78                 | 54.63                   | 42.65                   |
| Miel   | 1981 | 29.7                | 40.27                 | 28.72               | 39.57               | 51.69             | 29.81               | 23.06               | 22.05                | 40.69                    | 41.55                 | 82.04                   | 56.78                   |
| Miel   | 1982 | 35.32               | 37.98                 | 38.17               | 40.9                | 58.51             | 27.06               | 12.2                | 8.57                 | 13.99                    | 34.4                  | 22.98                   | 18.2                    |

| Nombre | Año  | Caudal<br>Enero<br>(m3/s) | Caudal<br>Febrero<br>(m3/s) | Caudal<br>Marzo<br>(m3/s) | Caudal<br>Abril<br>(m3/s) | Caudal<br>Mayo(m<br>3/s) | Caudal<br>Junio<br>(m3/s) | Caudal<br>Julio<br>(m3/s) | Caudal<br>Agosto<br>(m3/s) | Caudal<br>Septiem<br>bre<br>(m3/s) | Caudal<br>Octubre<br>(m3/s) | Caudal<br>Noviemb<br>re (m3/s) | Caudal<br>Diciemb<br>re (m3/s) |
|--------|------|---------------------------|-----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Miel   | 1983 | 11.37                     | 10.56                       | 16.59                     | 30.49                     | 30.4                     | 19.56                     | 12.52                     | 10.97                      | 22.08                              | 20.5                        | 22.14                          | 21.54                          |
| Miel   | 1984 | 32.44                     | 34.8                        | 27.03                     | 42.72                     | 46.57                    | 38.87                     | 36.05                     | 22.35                      | 42.89                              | 63.06                       | 78.85                          | 49.52                          |
| Miel   | 1985 | 21.56                     | 16.16                       | 26.89                     | 40.66                     | 38.04                    | 22.91                     | 12.36                     | 22.79                      | 29.77                              | 21.81                       | 42.72                          | 51.36                          |
| Miel   | 1986 | 30.54                     | 26.24                       | 35.68                     | 47.4                      | 39                       | 28.29                     | 14.38                     | 13.69                      | 14.55                              | 38.7                        | 34.6                           | 26.24                          |
| Miel   | 1987 | 24.67                     | 31.67                       | 20.44                     | 35.55                     | 36.55                    | 23.06                     | 23.65                     | 27.08                      | 19.62                              | 28.9                        | 29.12                          | 17.53                          |
| Miel   | 1988 | 24.86                     | 25.43                       | 17.42                     | 36.96                     | 30.14                    | 31.17                     | 20.97                     | 32.22                      | 50.84                              | 53.51                       | 58.31                          | 63.14                          |
| Miel   | 1989 | 48.22                     | 49.6                        | 53.12                     | 39.13                     | 38.23                    | 28.6                      | 18.63                     | 21.1                       | 34.23                              | 50.65                       | 62.38                          | 32.23                          |
| Miel   | 1990 | 26.69                     | 21.21                       | 32.35                     | 37                        | 36.01                    | 18.77                     | 16.96                     | 9.34                       | 9.94                               | 33.11                       | 28.78                          | 36.88                          |
| Miel   | 1991 | 20.54                     | 20.49                       | 22.29                     | 18.4                      | 19.53                    | 18.57                     | 12.92                     | 11.93                      | 13.11                              | 17.45                       | 16.06                          | 36.18                          |
| Miel   | 1992 | 26.02                     | 16.24                       | 16.85                     | 29.86                     | 39.16                    | 22.3                      | 12.03                     | 14.4                       | 18.84                              | 17.06                       | 20.64                          | 30.2                           |
| Miel   | 1993 | 20.84                     | 37.58                       | 38.55                     | 36.63                     | 34.14                    | 18.69                     | 15.64                     | 16.66                      | 37.1                               | 25.1                        | 34.42                          | 37                             |
| Miel   | 1994 | 38.49                     | 39.8                        | 40.15                     | 42.19                     | 34.21                    | 25.24                     | 15.63                     | 11.85                      | 15.1                               | 22.06                       | 45.98                          | 16.64                          |
| Miel   | 1995 | 16.55                     | 18.78                       | 42.28                     | 43.13                     | 35.92                    | 24.9                      | 31.55                     | 25.5                       | 16.37                              | 25.69                       | 39.77                          | 29.04                          |
| Miel   | 1996 | 26.87                     | 36.89                       | 40.48                     | 26.24                     | 28.58                    | 19.64                     | 11.78                     | 11.37                      | 18.32                              | 31.01                       | 35.05                          | 49.4                           |
| Miel   | 1997 | 14.27                     | 25.23                       | 17.88                     | 23.38                     | 18.41                    | 16.89                     | 11.2                      | 11.26                      | 16.12                              | 23.45                       | 28.68                          | 13.57                          |
| Miel   | 1998 | 16.02                     | 29.63                       | 21.4                      | 33.63                     | 32.9                     | 13.24                     | 20.04                     | 21                         | 28.35                              | 32.5                        | 42.79                          | 37.58                          |
| Miel   | 1999 | 40.75                     | 62.41                       | 72.65                     | 39.76                     | 39.94                    | 25.61                     | 14.61                     | 11.98                      | 21.38                              | 30.97                       | 56.38                          | 113.09                         |
| Miel   | 2000 | 34.87                     | 54.61                       | 59.89                     | 33.73                     | 34.15                    | 21.52                     | 12.78                     | 11.65                      | 18.33                              | 28.14                       | 31.25                          | 14.51                          |
| Miel   | 2001 | 15.85                     | 17.95                       | 25.54                     | 26.32                     | 33.8                     | 20.47                     | 17.96                     | 13.68                      | 19.06                              | 25.18                       | 43.37                          | 49.65                          |
| Miel   | 2002 | 34.73                     | 53.14                       | 28.02                     | 49.04                     | 30.8                     | 39.77                     | 16.88                     | 13.68                      | 17.23                              | 35.06                       | 34.14                          | 24.78                          |
| Miel   | 2003 | 15.22                     | 14.29                       | 22.61                     | 28.56                     | 25.23                    | 26.72                     | 12.95                     | 14.66                      | 20.11                              | 27.14                       | 30.32                          | 18.51                          |
| Miel   | 2004 | 14.66                     | 15.83                       | 19.25                     | 28.7                      | 38.84                    | 17.6                      | 17.46                     | 9.68                       | 17.23                              | 22.17                       | 28.2                           | 24.27                          |
| Miel   | 2005 | 22.88                     | 43.01                       | 51.99                     | 41.87                     | 61.04                    | 39.22                     | 24.4                      | 16.98                      | 18.87                              | 38.69                       | 48.67                          | 47.86                          |
| Miel   | 2006 | 45.69                     | 39.28                       | 42.84                     | 43.47                     | 51.31                    | 37.27                     | 17.18                     | 18.67                      | 25.78                              | 31.63                       | 44.39                          | 38.04                          |
| Miel   | 2007 | 38.06                     | 20.45                       | 34.67                     | 53.68                     | 55.61                    | 28.76                     | 28.34                     | 26.3                       | 26.77                              | 36.14                       | 43                             | 40.37                          |
| Miel   | 2008 | 27.54                     | 36.48                       | 52.42                     | 46.81                     | 48.28                    | 44.93                     | 29.98                     | 34.23                      | 27.02                              | 46.41                       | 64.95                          | 53.62                          |
| Miel   | 2009 | 48.39                     | 43.76                       | 51.86                     | 44.76                     | 54.75                    | 45.98                     | 23.48                     | 25.76                      | 21.36                              | 23.59                       | 26.25                          | 19.11                          |
| Miel   | 2010 | 15.15                     | 19.08                       | 33.68                     | 28.08                     | 28.84                    | 36.93                     | 41.11                     | 23.54                      | 46.8                               | 41.18                       | 65.85                          | 67.7                           |
| Miel   | 2011 | 51.45                     | 36.84                       | 52.48                     | 74.83                     | 56.99                    | 41.54                     | 36.76                     | 34.8                       | 27.08                              | 36.96                       | 43.32                          | 56.03                          |
| Miel   | 2012 | 55.65                     | 43.31                       | 39.78                     | 61.59                     | 50.06                    | 25.98                     | 20.63                     | 19.1                       | 19.51                              | 23.7                        | 32.92                          | 26.58                          |

| Nombre | Año  | Caudal Enero (m3/s) | Caudal Febrero (m3/s) | Caudal Marzo (m3/s) | Caudal Abril (m3/s) | Caudal Mayo(m3/s) | Caudal Junio (m3/s) | Caudal Julio (m3/s) | Caudal Agosto (m3/s) | Caudal Septiembre (m3/s) | Caudal Octubre (m3/s) | Caudal Noviembre (m3/s) | Caudal Diciembre (m3/s) |
|--------|------|---------------------|-----------------------|---------------------|---------------------|-------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| Miel   | 2013 | 20.65               | 39.56                 | 37.7                | 31.11               | 50.3              | 29.41               | 20.06               | 20.74                | 19.07                    | 24.96                 | 32.51                   | 31.38                   |
| Miel   | 2014 | 26.45               | 29.12                 | 36.23               | 28.35               | 36.82             | 20.8                | 14.62               | 11.29                | 21.73                    | 33.24                 | 29.56                   | 23.1                    |
| Miel   | 2015 | 20.36               | 24.59                 | 37.67               | 47.13               | 24.56             | 20.1                | 14.02               | 10.45                | 10.91                    | 15.25                 | 18.82                   | 8.86                    |
| Miel   | 2016 | 7.21                | 13.29                 | 18.94               | 22.05               | 24.82             | 10.23               | 14.24               | 7.5                  | 13.24                    | 13.99                 | 15.67                   | 22                      |

#### Formato 5. Embalses

Formato No Registrado

#### Formato 6. Filtraciones

| Nombre  | m3/s |
|---------|------|
| Miel II | 4.62 |

#### Formato 7. Curvas de Operación Embalses

Formato No Registrado

#### Formato 8. Capacidad Arcos de Descarga

Formato No Registrado

#### Formato 9. Arco de Bombeo

Formato No Registrado

#### Formato 10. Capacidad Máxima Arco Generación

| Nombre  | Flujo Mínimo (m3/s) | Flujo Máximo (m3/s) |
|---------|---------------------|---------------------|
| Miel II | 14.24               | 35.6                |

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

Formato No Registrado

### **Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

### **Formato 22. Plantas Geotérmicas**

Formato No Registrado

### **Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

### **Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

### **Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

### **Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado



**TERMOBARRANQUILLA S.A. E.S.P.**

**Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

**Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

**Formato 3. Plantas o Unidades Térmicas**

| Nombre | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|--------|------------------------------|-----------------------|---------|
| TEBSA  | 791                          | 7.2131                | 4.2186  |

**Formato 4. Caudal Medio Mensual**

Formato No Registrado

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

| Nombre | Campo                 | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|--------|-----------------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| TEBSA  | PLANT A LNG CARTAGENA | 8760            | 4650000                  | 4650000              | 4200000                | 4650000              | 4500000              | 4650000             | 4500000              | 4650000              | 4650000               | 4500000                   | 4650000                | 4500000                  |

**Formato 15. Transporte Gas Natural**

| Nombre | Punto Entrada    | Punto Salida | Transporte Diciembre (MBTU) | Transporte Enero (MBTU) | Transporte Febrero (MBTU) | Transporte Marzo (MBTU) | Transporte Abril (MBTU) | Transporte Mayo (MBTU) | Transporte Junio (MBTU) | Transporte Julio (MBTU) | Transporte Agosto (MBTU) | Transporte Septiembre (MBTU) | Transporte Octubre (MBTU) | Transporte Noviembre (MBTU) |
|--------|------------------|--------------|-----------------------------|-------------------------|---------------------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|--------------------------|------------------------------|---------------------------|-----------------------------|
| TEBSA  | ESTACION MAMONAL | TEBSA        | 4650000                     | 4650000                 | 4200000                   | 4650000                 | 4500000                 | 4650000                | 4500000                 | 4650000                 | 4650000                  | 4500000                      | 4650000                   | 4500000                     |

**Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente TERMOBARRANQUILLA S.A. E.S.P.**

**TERMOCANDELARIA S.C.A. E.S.P.**

**Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

**Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

**Formato 3. Plantas o Unidades Térmicas**

| Nombre                                       | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|----------------------------------------------|------------------------------|-----------------------|---------|
| CIERRE DE CICLO DE LAS UNIDADES 1 Y 2 - TCDC | 555                          | 6.685                 | 5.0001  |
| TCD1                                         | 157                          | 10.2219               | 10.8404 |
| TCD2                                         | 157                          | 10.2165               | 4.1406  |

**Formato 4. Caudal Medio Mensual**

Formato No Registrado

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

| Nombre                                     | Campo                | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|--------------------------------------------|----------------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| CIERRE DE CICLO DE LAS UNIDAS 1 Y 2 - TCDC | Planta LNG Cartagena | 8760            | 2914000                  | 2914000              | 2632000                | 2914000              | 2820000              | 2914000             | 2820000              | 2914000              | 2914000               | 2820000                   | 2914000                | 2820000                  |
| TCD1                                       | Planta LNG Cartagena | 8760            | 1457000                  | 1457000              | 1316000                | 1457000              | 1410000              | 1457000             | 1410000              | 1457000              | 1457000               | 1410000                   | 1457000                | 1410000                  |

| Nombre | Campo                | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|--------|----------------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| TCD2   | Planta LNG Cartagena | 8760            | 1457000                  | 1457000              | 1316000                | 1457000              | 1410000              | 1457000             | 1410000              | 1457000              | 1457000               | 1410000                   | 1457000                | 1410000                  |

### Formato 15. Transporte Gas Natural

| Nombre                                       | Punto Entrada    | Punto Salida | Transporte Diciembre (MBTU) | Transporte Enero (MBTU) | Transporte Febrero (MBTU) | Transporte Marzo (MBTU) | Transporte Abril (MBTU) | Transporte Mayo (MBTU) | Transporte Junio (MBTU) | Transporte Julio (MBTU) | Transporte Agosto (MBTU) | Transporte Septiembre (MBTU) | Transporte Octubre (MBTU) | Transporte Noviembre (MBTU) |
|----------------------------------------------|------------------|--------------|-----------------------------|-------------------------|---------------------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|--------------------------|------------------------------|---------------------------|-----------------------------|
| CIERRE DE CICLO DE LAS UNIDADES 1 Y 2 - TCDC | Estacion Mamonal | Termocentral | 2635000                     | 2635000                 | 2380000                   | 2635000                 | 2550000                 | 2635000                | 2550000                 | 2635000                 | 2635000                  | 2550000                      | 2635000                   | 2550000                     |
| TCD1                                         | Estacion Mamonal | Termocentral | 1308200                     | 1308200                 | 1181600                   | 1308200                 | 1266000                 | 1308200                | 1266000                 | 1308200                 | 1308200                  | 1266000                      | 1308200                   | 1266000                     |
| TCD2                                         | Estacion Mamonal | Termocentral | 1230700                     | 1230700                 | 1111600                   | 1230700                 | 1191000                 | 1230700                | 1191000                 | 1230700                 | 1230700                  | 1191000                      | 1230700                   | 1191000                     |

### Formato 16. Suministro Combustible Diferente a Gas

Formato No Registrado

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente TERMOCANDELARIA S.C.A. E.S.P.**

## **TERMOEMCALI I S.A E.S.P.**

### **Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

### **Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

### **Formato 3. Plantas o Unidades Térmicas**

| <b>Nombre</b> | <b>Capacidad Efectiva Neta (MW)</b> | <b>Eficiencia (MBTU/MWh)</b> | <b>IHF (%)</b> |
|---------------|-------------------------------------|------------------------------|----------------|
| Termoemcali   | 212.84                              | 7.464                        | 7.4987         |

### **Formato 4. Caudal Medio Mensual**

Formato No Registrado

### **Formato 5. Embalses**

Formato No Registrado

### **Formato 6. Filtraciones**

Formato No Registrado

### **Formato 7. Curvas de Operación Embalses**

Formato No Registrado

### **Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

### **Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

| Nombre      | Combustible        | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|-------------|--------------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| Termoemcali | Fuel Oil2 - Diesel | 8760            | 1185271.58               | 1185271.58           | 1070567.88             | 1185271.58           | 1147037.01           | 1185271.58          | 1147037.01           | 1185271.58           | 1185271.58            | 1147037.01                | 1185271.58             | 1147037.01               |

**Formato 17. Almacenamiento Combustible**

| Nombre      | Combustible        | Capacidad Almacenamiento | Cantidad Almacenada (MBTU) |
|-------------|--------------------|--------------------------|----------------------------|
| Termoemcali | Fuel Oil2 - Diesel | 1350000                  | 0                          |

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente TERMOEMCALI I S.A E.S.P.**

**TERMOTASAJERO S.A. E.S.P.**

**Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

**Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

**Formato 3. Plantas o Unidades Térmicas**

| Nombre     | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|------------|------------------------------|-----------------------|---------|
| Tasajero I | 163                          | 9.1268                | 5.4218  |

**Formato 4. Caudal Medio Mensual**

Formato No Registrado

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

| Nombre     | Combustible | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|------------|-------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| Tasajero I | CARBON      | 8760            | 1046815.38               | 1046815.38           | 945510.67              | 1046815.38           | 1013047.15           | 1046815.38          | 1013047.15           | 1046815.38           | 1046815.38            | 1013047.15                | 1046815.38             | 1013047.15               |

**Formato 17. Almacenamiento Combustible**

| Nombre     | Combustible | Capacidad Almacenamiento | Cantidad Almacenada (MBTU) |
|------------|-------------|--------------------------|----------------------------|
| Tasajero I | CARBON      | 236493.08                | 0                          |

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente TERMOTASAJERO S.A. E.S.P.**

**TERMOVALLE S.A.S. E.S.P.**

**Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

**Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

**Formato 3. Plantas o Unidades Térmicas**

| Nombre                       | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|------------------------------|------------------------------|-----------------------|---------|
| Termovalle                   | 200.01                       | 6.9421                | 10.8184 |
| Ampliación planta Termovalle | 240.02                       | 6.15                  | 5.0001  |

**Formato 4. Caudal Medio Mensual**

Formato No Registrado

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

| Nombre                      | Campo     | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|-----------------------------|-----------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| Ampliación planta Termovale | No aplica | 0               | 0                        | 0                    | 0                      | 0                    | 0                    | 0                   | 0                    | 0                    | 0                     | 0                         | 0                      | 0                        |

**Formato 15. Transporte Gas Natural**

| Nombre                       | Punto Entrada | Punto Salida | Transporte Diciembre (MBTU) | Transporte Enero (MBTU) | Transporte Febrero (MBTU) | Transporte Marzo (MBTU) | Transporte Abril (MBTU) | Transporte Mayo (MBTU) | Transporte Junio (MBTU) | Transporte Julio (MBTU) | Transporte Agosto (MBTU) | Transporte Septiembre (MBTU) | Transporte Octubre (MBTU) | Transporte Noviembre (MBTU) |
|------------------------------|---------------|--------------|-----------------------------|-------------------------|---------------------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|--------------------------|------------------------------|---------------------------|-----------------------------|
| Ampliación planta Termovalle | No Aplica     | No Aplica    | 0                           | 0                       | 0                         | 0                       | 0                       | 0                      | 0                       | 0                       | 0                        | 0                            | 0                         | 0                           |

#### Formato 16. Suministro Combustible Diferente a Gas

| Nombre                       | Combustible        | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|------------------------------|--------------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| Termovalle                   | Fuel Oil2 - Diesel | 8760            | 1090131.59               | 1090131.59           | 984634.98              | 1090131.59           | 1054966.05           | 1090131.59          | 1054966.05           | 1090131.59           | 1090131.59            | 1054966.05                | 1090131.59             | 1054966.05               |
| Ampliación planta Termovalle | Fuel Oil2 - Diesel | 8760            | 1233083.69               | 1233083.69           | 1113753.01             | 1233083.69           | 1193306.8            | 1233083.69          | 1193306.8            | 1233083.69           | 1233083.69            | 1193306.8                 | 1233083.69             | 1193306.8                |

#### Formato 17. Almacenamiento Combustible

| Nombre                       | Combustible        | Capacidad Almacenamiento | Cantidad Almacenada (MBTU) |
|------------------------------|--------------------|--------------------------|----------------------------|
| Termovalle                   | Fuel Oil2 - Diesel | 1443156.75               | 0                          |
| Ampliación planta Termovalle | Fuel Oil2 - Diesel | 1443156.75               | 0                          |

**Formato 18. Energía Contratada**

| Nombre                                 | Energía<br>Diciembre<br>(MBTU) | Energía<br>Enero<br>(MBTU) | Energía<br>Febrero<br>(MBTU) | Energía<br>Marzo<br>(MBTU) | Energía<br>Abril<br>(MBTU) | Energía<br>Mayo<br>(MBTU) | Energía<br>Junio<br>(MBTU) | Energía<br>Julio<br>(MBTU) | Energía<br>Agosto<br>(MBTU) | Energía<br>Septiembre<br>(MBTU) | Energía<br>Octubre<br>(MBTU) | Energía<br>Noviembre<br>(MBTU) |
|----------------------------------------|--------------------------------|----------------------------|------------------------------|----------------------------|----------------------------|---------------------------|----------------------------|----------------------------|-----------------------------|---------------------------------|------------------------------|--------------------------------|
| Termovall<br>e                         | 0                              | 0                          | 0                            | 0                          | 0                          | 0                         | 0                          | 0                          | 0                           | 0                               | 0                            | 0                              |
| Ampliación<br>planta<br>Termovall<br>e | 0                              | 0                          | 0                            | 0                          | 0                          | 0                         | 0                          | 0                          | 0                           | 0                               | 0                            | 0                              |

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

Formato No Registrado

**Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

**Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente TERMOVALLE S.A.S. E.S.P.**

**Termo Caribe SAS**

**Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

**Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

**Formato 3. Plantas o Unidades Térmicas**

| Nombre         | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|----------------|------------------------------|-----------------------|---------|
| Termo Caribe 3 | 42                           | 8.42                  | 20      |
| Termo Caribe 1 | 150                          | 8.42                  | 20      |

**Formato 4. Caudal Medio Mensual**

Formato No Registrado

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

| Nombre         | Combustible | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|----------------|-------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| Termo Caribe 3 | GLP         | 8760            | 263108.16                | 263108.16            | 237646.08              | 263108.16            | 254620.8             | 263108.16           | 254620.8             | 263108.16            | 263108.16             | 254620.8                  | 263108.16              | 254620.8                 |
| Termo Caribe 1 | GLP         | 8760            | 939672                   | 939672               | 848736                 | 939672               | 909360               | 939672              | 909360               | 939672               | 939672                | 909360                    | 939672                 | 909360                   |

**Formato 17. Almacenamiento Combustible**

| Nombre         | Combustible | Capacidad Almacenamiento | Cantidad Almacenada (MBTU) |
|----------------|-------------|--------------------------|----------------------------|
| Termo Caribe 3 | GLP         | 500000                   | 0                          |
| Termo Caribe 1 | GLP         | 1000000                  | 0                          |

#### **Formato 18. Energía Contratada**

Formato No Registrado

#### **Formato 19. Plantas Menores**

Formato No Registrado

#### **Formato 20. Plantas Eólicas**

Formato No Registrado

#### **Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

#### **Formato 22. Plantas Geotérmicas**

Formato No Registrado

#### **Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

#### **Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

#### **Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

#### **Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente Termo Caribe SAS**

**Termoyopal Generación 2 SAS ESP**

**Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

**Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

**Formato 3. Plantas o Unidades Térmicas**

| Nombre       | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|--------------|------------------------------|-----------------------|---------|
| TERMOYOPALG3 | 50                           | 8.1                   | 5.0001  |
| TERMOYOPALG4 | 50                           | 8.1                   | 5.0001  |
| TERMOYOPALG5 | 50                           | 8.1                   | 5.0001  |

**Formato 4. Caudal Medio Mensual**

Formato No Registrado

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

| Nombre         | Campo               | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|----------------|---------------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| TERMO YOPAL G3 | Floreña (Boca pozo) | 8760            | 301320                   | 301320               | 272160                 | 301320               | 291600               | 301320              | 291600               | 301320               | 301320                | 291600                    | 301320                 | 291600                   |
| TERMO YOPAL G4 | Floreña (Boca pozo) | 8760            | 301320                   | 301320               | 272160                 | 301320               | 291600               | 301320              | 291600               | 301320               | 301320                | 291600                    | 301320                 | 291600                   |
| TERMO YOPAL G5 | Floreña (Boca pozo) | 8760            | 301320                   | 301320               | 272160                 | 301320               | 291600               | 301320              | 291600               | 301320               | 301320                | 291600                    | 301320                 | 291600                   |

**Formato 15. Transporte Gas Natural**

| Nombre               | Punto<br>Entrada          | Punto<br>Salida           | Transpo<br>rte<br>Diciemb<br>re(MBT<br>U) | Transpo<br>rte<br>Enero<br>(MBTU) | Transpo<br>rte<br>Febrero<br>(MBTU) | Transpo<br>rte<br>Marzo<br>(MBTU) | Transpo<br>rte<br>Abril<br>(MBTU) | Transpo<br>rte<br>Mayo<br>(MBTU) | Transpo<br>rte<br>Junio<br>(MBTU) | Transpo<br>rte Julio<br>(MBTU) | Transpo<br>rte<br>Agosto<br>(MBTU) | Transpo<br>rte<br>Septiem<br>bre<br>(MBTU) | Transpo<br>rte<br>Octubre<br>(MBTU) | Transpo<br>rte<br>Noviem<br>bre<br>(MBTU) |
|----------------------|---------------------------|---------------------------|-------------------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|--------------------------------|------------------------------------|--------------------------------------------|-------------------------------------|-------------------------------------------|
| TERMO<br>YOPAL<br>G3 | Floreña<br>(Boca<br>Pozo) | Floreña<br>(Boca<br>Pozo) | 0                                         | 0                                 | 0                                   | 0                                 | 0                                 | 0                                | 0                                 | 0                              | 0                                  | 0                                          | 0                                   | 0                                         |
| TERMO<br>YOPAL<br>G4 | Floreña<br>(Boca<br>Pozo) | Floreña<br>(Boca<br>Pozo) | 0                                         | 0                                 | 0                                   | 0                                 | 0                                 | 0                                | 0                                 | 0                              | 0                                  | 0                                          | 0                                   | 0                                         |
| TERMO<br>YOPAL<br>G5 | Floreña<br>(Boca<br>Pozo) | Floreña<br>(Boca<br>Pozo) | 0                                         | 0                                 | 0                                   | 0                                 | 0                                 | 0                                | 0                                 | 0                              | 0                                  | 0                                          | 0                                   | 0                                         |

#### **Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

#### **Formato 17. Almacenamiento Combustible**

Formato No Registrado

#### **Formato 18. Energía Contratada**

Formato No Registrado

#### **Formato 19. Plantas Menores**

Formato No Registrado

#### **Formato 20. Plantas Eólicas**

Formato No Registrado

#### **Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

#### **Formato 22. Plantas Geotérmicas**

Formato No Registrado

**Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

**Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

**Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

**Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente Termoyopal Generación 2 SAS ESP**

## **VIENTOS DEL NORTE S.A.S. E.S.P.**

### **Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

### **Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

### **Formato 3. Plantas o Unidades Térmicas**

Formato No Registrado

### **Formato 4. Caudal Medio Mensual**

Formato No Registrado

### **Formato 5. Embalses**

Formato No Registrado

### **Formato 6. Filtraciones**

Formato No Registrado

### **Formato 7. Curvas de Operación Embalses**

Formato No Registrado

### **Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

### **Formato 9. Arco de Bombeo**

Formato No Registrado

### **Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

Formato No Registrado

**Formato 15. Transporte Gas Natural**

Formato No Registrado

**Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

**Formato 17. Almacenamiento Combustible**

Formato No Registrado

**Formato 18. Energía Contratada**

Formato No Registrado

**Formato 19. Plantas Menores**

Formato No Registrado

**Formato 20. Plantas Eólicas**

| Nombre       | CEN | IHF | FUNCONVERSION |
|--------------|-----|-----|---------------|
| PARQUE ALPHA | 212 | 10  |               |

**Formato 21. Serie Histórica de Velocidad de Viento**

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| PARQUE ALPHA  | 2008        | 1          | 7.97             |
| PARQUE ALPHA  | 2008        | 2          | 8.99             |
| PARQUE ALPHA  | 2008        | 3          | 8.88             |
| PARQUE ALPHA  | 2008        | 4          | 8.09             |
| PARQUE ALPHA  | 2008        | 5          | 8                |
| PARQUE ALPHA  | 2008        | 6          | 9.52             |
| PARQUE ALPHA  | 2008        | 7          | 8.8              |
| PARQUE ALPHA  | 2008        | 8          | 5.75             |
| PARQUE ALPHA  | 2008        | 9          | 4.62             |
| PARQUE ALPHA  | 2008        | 10         | 4.94             |
| PARQUE ALPHA  | 2008        | 11         | 4.14             |
| PARQUE ALPHA  | 2008        | 12         | 6.36             |
| PARQUE ALPHA  | 2009        | 1          | 7.61             |
| PARQUE ALPHA  | 2009        | 2          | 8.5              |
| PARQUE ALPHA  | 2009        | 3          | 8.53             |
| PARQUE ALPHA  | 2009        | 4          | 8.94             |
| PARQUE ALPHA  | 2009        | 5          | 7.76             |
| PARQUE ALPHA  | 2009        | 6          | 8.24             |
| PARQUE ALPHA  | 2009        | 7          | 10.58            |
| PARQUE ALPHA  | 2009        | 8          | 8.62             |
| PARQUE ALPHA  | 2009        | 9          | 7.35             |
| PARQUE ALPHA  | 2009        | 10         | 7.17             |
| PARQUE ALPHA  | 2009        | 11         | 5.59             |
| PARQUE ALPHA  | 2009        | 12         | 8.1              |
| PARQUE ALPHA  | 2010        | 1          | 8.68             |
| PARQUE ALPHA  | 2010        | 2          | 7.02             |
| PARQUE ALPHA  | 2010        | 3          | 7.27             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| PARQUE ALPHA  | 2010        | 4          | 6.99             |
| PARQUE ALPHA  | 2010        | 5          | 7.57             |
| PARQUE ALPHA  | 2010        | 6          | 6.79             |
| PARQUE ALPHA  | 2010        | 7          | 7.17             |
| PARQUE ALPHA  | 2010        | 8          | 5.28             |
| PARQUE ALPHA  | 2010        | 9          | 3.97             |
| PARQUE ALPHA  | 2010        | 10         | 4.38             |
| PARQUE ALPHA  | 2010        | 11         | 4.83             |
| PARQUE ALPHA  | 2010        | 12         | 5.2              |
| PARQUE ALPHA  | 2011        | 1          | 7.94             |
| PARQUE ALPHA  | 2011        | 2          | 8.5              |
| PARQUE ALPHA  | 2011        | 3          | 7.76             |
| PARQUE ALPHA  | 2011        | 4          | 7.34             |
| PARQUE ALPHA  | 2011        | 5          | 6                |
| PARQUE ALPHA  | 2011        | 6          | 8.31             |
| PARQUE ALPHA  | 2011        | 7          | 8.1              |
| PARQUE ALPHA  | 2011        | 8          | 6.06             |
| PARQUE ALPHA  | 2011        | 9          | 5.05             |
| PARQUE ALPHA  | 2011        | 10         | 3.94             |
| PARQUE ALPHA  | 2011        | 11         | 4.02             |
| PARQUE ALPHA  | 2011        | 12         | 7.11             |
| PARQUE ALPHA  | 2012        | 1          | 8.66             |
| PARQUE ALPHA  | 2012        | 2          | 8.92             |
| PARQUE ALPHA  | 2012        | 3          | 9.39             |
| PARQUE ALPHA  | 2012        | 4          | 7.03             |
| PARQUE ALPHA  | 2012        | 5          | 8.28             |
| PARQUE ALPHA  | 2012        | 6          | 10.07            |
| PARQUE ALPHA  | 2012        | 7          | 10.22            |
| PARQUE ALPHA  | 2012        | 8          | 7.54             |
| PARQUE ALPHA  | 2012        | 9          | 6.83             |
| PARQUE ALPHA  | 2012        | 10         | 4.28             |
| PARQUE ALPHA  | 2012        | 11         | 5.63             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| PARQUE ALPHA  | 2012        | 12         | 7.29             |
| PARQUE ALPHA  | 2013        | 1          | 9.99             |
| PARQUE ALPHA  | 2013        | 2          | 8.94             |
| PARQUE ALPHA  | 2013        | 3          | 8.31             |
| PARQUE ALPHA  | 2013        | 4          | 8.55             |
| PARQUE ALPHA  | 2013        | 5          | 8.27             |
| PARQUE ALPHA  | 2013        | 6          | 10.7             |
| PARQUE ALPHA  | 2013        | 7          | 10.07            |
| PARQUE ALPHA  | 2013        | 8          | 7.52             |
| PARQUE ALPHA  | 2013        | 9          | 5.26             |
| PARQUE ALPHA  | 2013        | 10         | 5.87             |
| PARQUE ALPHA  | 2013        | 11         | 5.9              |
| PARQUE ALPHA  | 2013        | 12         | 8.38             |
| PARQUE ALPHA  | 2014        | 1          | 10.52            |
| PARQUE ALPHA  | 2014        | 2          | 9.42             |
| PARQUE ALPHA  | 2014        | 3          | 8.53             |
| PARQUE ALPHA  | 2014        | 4          | 10.13            |
| PARQUE ALPHA  | 2014        | 5          | 9.22             |
| PARQUE ALPHA  | 2014        | 6          | 11.58            |
| PARQUE ALPHA  | 2014        | 7          | 11.76            |
| PARQUE ALPHA  | 2014        | 8          | 8.18             |
| PARQUE ALPHA  | 2014        | 9          | 8.02             |
| PARQUE ALPHA  | 2014        | 10         | 6.36             |
| PARQUE ALPHA  | 2014        | 11         | 6.39             |
| PARQUE ALPHA  | 2014        | 12         | 8.18             |
| PARQUE ALPHA  | 2015        | 1          | 9.08             |
| PARQUE ALPHA  | 2015        | 2          | 8.55             |
| PARQUE ALPHA  | 2015        | 3          | 9.66             |
| PARQUE ALPHA  | 2015        | 4          | 9.49             |
| PARQUE ALPHA  | 2015        | 5          | 10.59            |
| PARQUE ALPHA  | 2015        | 6          | 11.23            |
| PARQUE ALPHA  | 2015        | 7          | 10.8             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| PARQUE ALPHA  | 2015        | 8          | 9.22             |
| PARQUE ALPHA  | 2015        | 9          | 7.66             |
| PARQUE ALPHA  | 2015        | 10         | 6.5              |
| PARQUE ALPHA  | 2015        | 11         | 8.27             |
| PARQUE ALPHA  | 2015        | 12         | 11.21            |
| PARQUE ALPHA  | 2016        | 1          | 8.12             |
| PARQUE ALPHA  | 2016        | 2          | 8.96             |
| PARQUE ALPHA  | 2016        | 3          | 8.83             |
| PARQUE ALPHA  | 2016        | 4          | 6.88             |
| PARQUE ALPHA  | 2016        | 5          | 8.57             |
| PARQUE ALPHA  | 2016        | 6          | 10.68            |
| PARQUE ALPHA  | 2016        | 7          | 10.21            |
| PARQUE ALPHA  | 2016        | 8          | 8.98             |
| PARQUE ALPHA  | 2016        | 9          | 7.61             |
| PARQUE ALPHA  | 2016        | 10         | 4.32             |
| PARQUE ALPHA  | 2016        | 11         | 3.91             |
| PARQUE ALPHA  | 2016        | 12         | 7.5              |
| PARQUE ALPHA  | 2017        | 1          | 7.72             |
| PARQUE ALPHA  | 2017        | 2          | 7.82             |
| PARQUE ALPHA  | 2017        | 3          | 7.99             |
| PARQUE ALPHA  | 2017        | 4          | 8.78             |
| PARQUE ALPHA  | 2017        | 5          | 8.91             |
| PARQUE ALPHA  | 2017        | 6          | 9.73             |
| PARQUE ALPHA  | 2017        | 7          | 9.57             |
| PARQUE ALPHA  | 2017        | 8          | 7.47             |
| PARQUE ALPHA  | 2017        | 9          | 5.45             |
| PARQUE ALPHA  | 2017        | 10         | 6.32             |
| PARQUE ALPHA  | 2017        | 11         | 5.53             |
| PARQUE ALPHA  | 2017        | 12         | 7.98             |
| PARQUE ALPHA  | 2018        | 1          | 8.53             |
| PARQUE ALPHA  | 2018        | 2          | 9.52             |
| PARQUE ALPHA  | 2018        | 3          | 8.84             |

| <b>Nombre</b> | <b>ANOS</b> | <b>MES</b> | <b>VELOCIDAD</b> |
|---------------|-------------|------------|------------------|
| PARQUE ALPHA  | 2018        | 4          | 8.95             |
| PARQUE ALPHA  | 2018        | 5          | 10.41            |
| PARQUE ALPHA  | 2018        | 6          | 11.11            |
| PARQUE ALPHA  | 2018        | 7          | 10.96            |

#### **Formato 22. Plantas Geotérmicas**

Formato No Registrado

#### **Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

#### **Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

#### **Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

#### **Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente VIENTOS DEL NORTE S.A.S. E.S.P.**

**ZONA FRANCA CELSIA S.A. E.S.P.**

**Formato 1. Plantas o Unidades Hidráulicas**

Formato No Registrado

**Formato 2. Topología Plantas Hidráulicas**

Formato No Registrado

**Formato 3. Plantas o Unidades Térmicas**

| Nombre    | Capacidad Efectiva Neta (MW) | Eficiencia (MBTU/MWh) | IHF (%) |
|-----------|------------------------------|-----------------------|---------|
| FLORES I  | 160                          | 7.3505                | 5.4256  |
| FLORES IV | 450                          | 6.9107                | 13.9411 |

**Formato 4. Caudal Medio Mensual**

Formato No Registrado

**Formato 5. Embalses**

Formato No Registrado

**Formato 6. Filtraciones**

Formato No Registrado

**Formato 7. Curvas de Operación Embalses**

Formato No Registrado

**Formato 8. Capacidad Arcos de Descarga**

Formato No Registrado

**Formato 9. Arco de Bombeo**

Formato No Registrado

**Formato 10. Capacidad Máxima Arco Generación**

Formato No Registrado

**Formato 11. Descarga Máxima Embalse Bogotá**

Formato No Registrado

**Formato 12. Capacidad Túneles**

Formato No Registrado

**Formato 13. Demanda Acueducto y Riego**

Formato No Registrado

**Formato 14. Suministro Gas Natural**

| Nombre    | Campo       | Horas Operación | Energía Diciembre (MBTU) | Energía Enero (MBTU) | Energía Febrero (MBTU) | Energía Marzo (MBTU) | Energía Abril (MBTU) | Energía Mayo (MBTU) | Energía Junio (MBTU) | Energía Julio (MBTU) | Energía Agosto (MBTU) | Energía Septiembre (MBTU) | Energía Octubre (MBTU) | Energía Noviembre (MBTU) |
|-----------|-------------|-----------------|--------------------------|----------------------|------------------------|----------------------|----------------------|---------------------|----------------------|----------------------|-----------------------|---------------------------|------------------------|--------------------------|
| FLORES I  | IMPORTACION | 8760            | 930000                   | 930000               | 840000                 | 930000               | 900000               | 930000              | 900000               | 930000               | 930000                | 900000                    | 930000                 | 900000                   |
| FLORES IV | IMPORTACION | 8760            | 2542000                  | 2542000              | 2296000                | 2542000              | 2460000              | 2542000             | 2460000              | 2542000              | 2542000               | 2460000                   | 2542000                | 2460000                  |

**Formato 15. Transporte Gas Natural**

| Nombre    | Punto<br>Entrada        | Punto<br>Salida         | Transpo<br>rte<br>Diciemb<br>re(MBT<br>U) | Transpo<br>rte<br>Enero<br>(MBTU) | Transpo<br>rte<br>Febrero<br>(MBTU) | Transpo<br>rte<br>Marzo<br>(MBTU) | Transpo<br>rte<br>Abril<br>(MBTU) | Transpo<br>rte<br>Mayo<br>(MBTU) | Transpo<br>rte<br>Junio<br>(MBTU) | Transpo<br>rte Julio<br>(MBTU) | Transpo<br>rte<br>Agosto<br>(MBTU) | Transpo<br>rte<br>Septiem<br>bre<br>(MBTU) | Transpo<br>rte<br>Octubre<br>(MBTU) | Transpo<br>rte<br>Noviem<br>bre<br>(MBTU) |
|-----------|-------------------------|-------------------------|-------------------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|--------------------------------|------------------------------------|--------------------------------------------|-------------------------------------|-------------------------------------------|
| FLORES I  | ESTACION<br>IMPORTACION | ESTACION<br>TERMOFLORES | 930000                                    | 930000                            | 840000                              | 930000                            | 900000                            | 930000                           | 900000                            | 930000                         | 930000                             | 900000                                     | 930000                              | 900000                                    |
| FLORES IV | ESTACION<br>IMPORTACION | ESTACION<br>TERMOFLORES | 2542000                                   | 2542000                           | 2296000                             | 2542000                           | 2460000                           | 2542000                          | 2460000                           | 2542000                        | 2542000                            | 2460000                                    | 2542000                             | 2460000                                   |

#### **Formato 16. Suministro Combustible Diferente a Gas**

Formato No Registrado

#### **Formato 17. Almacenamiento Combustible**

Formato No Registrado

#### **Formato 18. Energía Contratada**

Formato No Registrado

#### **Formato 19. Plantas Menores**

Formato No Registrado

#### **Formato 20. Plantas Eólicas**

Formato No Registrado

#### **Formato 21. Serie Histórica de Velocidad de Viento**

Formato No Registrado

## **Formato 22. Plantas Geotérmicas**

Formato No Registrado

## **Formato 23. Serie Histórica de Temperatura Ambiente**

Formato No Registrado

## **Formato 24. Plantas Solares Fotovoltaicas**

Formato No Registrado

## **Formato 24.2 Serie Histórica de Irradiación Solar Horizontal**

Formato No Registrado

## **Formato 24.1 Serie Histórica de Tempertura Ambiente Solar**

Formato No Registrado

**Anexos del Agente ZONA FRANCA CELSIA S.A. E.S.P.**