

INFORMACION HIDROMÉTRICA, CLIMATOLÓGICA Y DE PRESAS DE LA REGION

| PRESA              | CAP.               |                    | VOL. MUERTO<br>(hm <sup>3</sup> ) | ALMAC.             |                    |                    | DIFERENCIA<br>EN 24 hr<br>(hm <sup>3</sup> ) | ENTRADAS CUENCA<br>PROPAG(HE)<br>(m <sup>3</sup> /s) | SALIDAS      |             |            | %           | %           | DIF. ALM.    | LLUVIA<br>(mm) | ENTRADAS<br>(hm <sup>3</sup> ) |
|--------------------|--------------------|--------------------|-----------------------------------|--------------------|--------------------|--------------------|--|--|--------------|-------------|------------|-------------|-------------|--------------|----------------|--------------------------------|
|                    | N A M E            | N A M O            |                                   | 2014               | AYER               | HOY                |  |  | VERTEDOR     |             |            |             |             |              |                |                                |
|                    | (hm <sup>2</sup> ) | (hm <sup>2</sup> ) |                                   | (hm <sup>3</sup> ) | (hm <sup>3</sup> ) | (hm <sup>3</sup> ) |  |  | O.T. (Qm)    | LIBRE       | CONTROLADO |             |             |              |                |                                |
| LAZARO CARDENAS    | 1,116.5            | 703.4              | 0.0                               | 716.4              | 718.7              | 718.3              | -0.4   | 8.9  | 0.0          | 11.1        | 0.0        | 102.1       | 101.8       | 1.9          | 1.5            | 0.77                           |
| P. ELIAS CALLES    | 3,443.5            | 2,881.7            | 602.6                             | 2,707.0            | 2,690.5            | 2,689.6            | -1.0   | 47.0   | 53.5         | 0.0         | 0.0        | 93.3        | 93.9        | -17.4        | 0.0            | 4.06                           |
| ALVARO OBREGON     | 4,409.4            | 3,023.1            | 55.0                              | 2,896.5            | 2,979.1            | 2,977.2            | -1.8   | 28.1   | 43.7         | 0.0         | 0.0        | 98.5        | 95.8        | 80.7         | 0.0            | 2.42                           |
| ABRAHAM GONZALEZ   | 109.6              | 85.4               | 1.6                               | 85.5               | 86.1               | 85.9               | -0.2   | 0.0  | 0.0          | 0.0         | 0.0        | 100.6       | 100.1       | 0.4          | 0.0            | 0.00                           |
| A.RUIZ CORTINES    | 1,822.6            | 950.3              | 24.8                              | 980.3              | 932.0              | 930.7              | -1.3   | 2.3  | 14.5         | 0.0         | 0.0        | 97.9        | 103.2       | -49.6        | 0.0            | 0.20                           |
| EL MOLINITO        | 233.9              | 130.2              | 0.5                               | 91.2               | 26.4               | 26.4               | 0.0  | 0.2  | 0.0          | 0.0         | 0.0        | 20.2        | 70.0        | -64.8        | 0.0            | 0.02                           |
| A. RODRIGUEZ L.    | 284.5              | 219.5              | 0.0                               | 27.4               | 23.4               | 23.2               | -0.2   | 0.0  | 0.0          | 0.0         | 0.0        | 10.6        | 12.5        | -4.2         | 0.0            | 0.00                           |
| CUAUHTEMOC         | 66.3               | 41.5               | 1.5                               | 31.3               | 20.1               | 20.1               | 0.0  | 0.1  | 0.0          | 0.0         | 0.0        | 48.4        | 75.4        | -11.2        | 0.0            | 0.01                           |
| I.R. ALATORRE      | 29.7               | 16.2               | 1.0                               | 11.5               | 8.6                | 8.6                | 0.0  | 0.0  | 0.0          | 0.0         | 0.0        | 53.1        | 71.1        | -2.9         | 0.0            | 0.00                           |
| <b>T O T A L</b>   | <b>11,515.9</b>    | <b>8,051.3</b>     | <b>687.1</b>                      | <b>7,546.9</b>     | <b>7,484.9</b>     | <b>7,479.9</b>     | <b>-4.9</b>                                  | <b>86.6</b>  | <b>111.7</b> | <b>11.1</b> | <b>0.0</b> | <b>92.9</b> | <b>93.7</b> | <b>-67.0</b> |                | <b>7.48</b>                    |
| SUBTOTAL RÍO YAQUI | 8,969.4            | 6,608.2            | 657.6                             | 6,319.9            | 6,388.3            | 6,385.1            | -3.2   | 84.0   | 97.2         | 11.1        | 0.0        | 96.6        | 95.6        | 65.2         |                | 7.25                           |

| PRESA           | ALM. AGUJAS (hm <sup>3</sup> ) | PRESA                | ALM. VERT. LIBRE |
|-----------------|--------------------------------|----------------------|------------------|
| LAZARO CARDENAS | 761.7                          | ADOLFO RUIZ CORTINES | 1345.20          |
| ALVARO OBREGON  | 3,226.7                        |                      |                  |

Qm = GASTO MEDIO

**H I D R O M E T R I A**

| CUENCA   | ESTACION     | ESCALA<br>(m) | GASTO<br>(m <sup>3</sup> /s) | CUENCA    | ESTACION         | ESCALA<br>(m) | GASTO<br>(m <sup>3</sup> /s) |
|----------|--------------|---------------|------------------------------|-----------|------------------|---------------|------------------------------|
| SONOYTA  | SONOYTA II   | 386.00        | 0.00                         | MATAPE    | PUNTA DE AGUA II | 0.77          | 0.00                         |
| ASUNCION | PITIQUITO II | 286.00        | 0.00                         | COCORAQUE | COCORAQUE        | 0.99          | 0.00                         |
|          | STA. ROSA II | 529.30        | 0.00                         |           | GUÁPOCA- CFE     | 1.02          | 13.37                        |
| SONORA   | OREGANO II   | 5.04          | 0.14                         | YAQUI     | PASO NACORI-CFE  | 1.17          | 45.07                        |
|          | EL CAJON     | 1.67          | 0.34                         |           | EL CUBIL- CFE    | 1.65          | 56.42                        |
|          | ARIZPE-CEA   | -             | -                            |           | SAN BERNARDO     | -             | -                            |
|          |              |               |                              | MAYO      | TEZOCOMA         | 10.00         | 0.00                         |

**C L I M A T O L Ó G I A**

| CUENCA     | ESTACION       | PRECIP.<br>(mm) | TEMPERATURA °C |      |      | EVAP.<br>(mm) | CUENCA       | ESTACION      | PRECIP.<br>(mm) | TEMPERATURA °C |      |      | EVAP.<br>(mm) |
|------------|----------------|-----------------|----------------|------|------|---------------|--------------|---------------|-----------------|----------------|------|------|---------------|
|            |                |                 | AMB.           | MAX. | MIN. |               |              |               |                 | AMB.           | MAX. | MIN. |               |
| SONOYTA    | SONOYTA        | 0.0             | 18.0           | 30.0 | 17.0 | 3.34          | COCORAQUE    | COCORAQUE     | 0.0             | 21.0           | 37.5 | 19.0 | 3.65          |
|            | PTO. PEÑASC    | 0.0             | 21.2           | 30.5 | 21.0 | 8.88          | YAQUI        | GUÁPOCA-CFE   | 0.0             | 9.9            | 25.2 | 9.9  | 1.46          |
| SANTA CRUZ | NOGALES        | 0.0             | 15.5           | 25.5 | 14.5 | -             |              | P. NACORI-CFE | 2.0             | 18.5           | 37.4 | 18.1 | 3.93          |
| ASUNCION   | ALTAR          | 0.0             | 22.8           | 32.2 | 19.8 | 3.00          |              | EL CUBIL-CFE  | 4.0             | 19.0           | 39.6 | 19.0 | 5.74          |
|            | PITIQUITO      | 0.0             | 19.0           | 31.0 | 15.0 | -             |              | ABRAHAM GLE   | 0.0             | 8.0            | 24.0 | 7.0  | 2.70          |
|            | IMURIS         | 0.0             | 17.0           | 30.0 | 14.0 | 4.04          |              | AGUA PRIETA   | 0.0             | 19.0           | 29.0 | 18.0 | 5.09          |
|            | CUAUHTEMOC     | 0.0             | 18.5           | 35.5 | 18.0 | -             |              | ANGOSTURA     | 1.5             | 17.0           | 31.5 | 16.5 | 6.81          |
|            | STA. ROSA II   | 0.0             | -              | -    | -    | -             |              | ARIBABI       | 0.0             | 16.0           | 20.0 | 7.0  | -             |
| SONORA     | ACONCHI        | 0.0             | 21.0           | 32.0 | 19.0 | -             |              | BACERAC       | 0.0             | -              | -    | -    | -             |
|            | ARIZPE-CEA     | 0.0             | 14.0           | 28.0 | 12.0 | -             |              | HUACHINERAS   | 7.0             | 16.0           | 28.0 | 10.0 | -             |
|            | BACANUCHI      | 0.0             | 18.0           | 29.5 | 14.0 | 4.65          |              | TEPACHE       | 0.0             | 20.0           | 35.0 | 20.0 | -             |
|            | BANAMICHI      | 0.0             | 20.0           | 32.0 | 19.0 | -             |              | P. EL NOVILLO | 0.0             | 24.1           | 39.3 | 21.4 | 5.06          |
|            | RAYON          | 0.0             | -              | -    | -    | -             |              | NACAZARI      | 0.0             | 16.0           | 32.0 | 16.0 | 2.10          |
|            | EL CAJON       | 0.0             | 17.5           | 31.5 | 17.0 | 3.97          |              | OVIACHIC      | 0.0             | 24.5           | 37.5 | 23.5 | 4.15          |
|            | HILLO. NTE.    | 0.0             | 23.0           | 33.0 | 21.5 | -             |              | CD. OBREGON   | 0.0             | 26.0           | 39.0 | 24.0 | 5.88          |
|            | HILLO. OBS.    | 0.0             | 22.5           | 33.5 | 22.5 | 5.09          |              | YECORA        | 4.5             | 15.0           | 28.0 | 13.0 | 3.84          |
|            | OREGANO II     | 0.0             | 22.0           | 37.5 | 20.5 | 3.86          |              | YEPACHIC      | 1.0             | 14.0           | 29.0 | 10.0 | -             |
|            | EL MOLINITO    | 0.0             | -              | -    | -    | 3.85          |              | TEMOSACHI C.  | 0.0             | 6.2            | 25.4 | 6.2  | 3.30          |
| QUEROBABI  | 0.0            | 18.0            | 33.0           | 16.0 | -    |               | VICAM        | 0.0           | 22.0            | 37.0           | 21.0 | 5.96 |               |
| CANANEA    | 0.0            | 15.0            | 25.5           | 14.5 | -    |               | OBS. OBREGÓN | 0.0           | 25.6            | 37.4           | 23.6 | 4.66 |               |
| MATAPE     | MAZATAN        | 0.0             | 18.0           | 37.0 | 16.5 | 1.32          | MAYO         | BASASEACHIC   | 0.6             | 6.1            | 23.8 | 6.1  | -             |
|            | P. PTA. AGUA   | 0.0             | 22.5           | 33.5 | 19.0 | 4.25          |              | A.R.CORTINES  | 0.0             | 24.0           | 36.0 | 23.5 | 4.90          |
|            | PTA. AGUA II   | 0.0             | 18.0           | 33.5 | 18.0 | 5.20          |              | NAVUJOA       | 0.0             | 24.0           | 38.0 | 22.5 | 6.19          |
|            | EMPALME        | 0.0             | 25.9           | 34.3 | 21.4 | 2.10          |              | S. BERNARDO   | 0.0             | -              | -    | -    | -             |
|            | S. J. DE PIMAS | 0.0             | 19.0           | 34.0 | 18.0 | -             |              | TEZOCOMA      | 0.0             | 19.0           | 36.0 | 18.0 | 5.15          |
|            | GUAYMAS        | 0.0             | 23.0           | 32.8 | 21.0 | -             |              | RÍO FUERTE    | ALAMOS          | 0.0            | 19.5 | 34.8 | 19.4          |

ESTACIONES DE APOYO

| PRECIPITACIÓN MÁXIMA (mm) | 7.0  | HUACHINERAS   | ESTACION  | PRECIP. | EST. | PRECIP. |
|---------------------------|------|---|-----------|---------|------|---------|
| PRECIPITACIÓN MEDIA       | 1.1  | YAQUI MAYO 0.1 MÁTAPE 0.0 SONORA 0.0 ASUNCIÓN 0.0 SONOYTA 0.0 | HILLO SUR |         |      |         |
| TEMPERATURA MÍNIMA        | 6.1  | BASASEACHIC   |           |         |      |         |
| TEMPERATURA MÁXIMA        | 39.6 | EL CUBIL-CFE  |           |         |      |         |

| PRESA            | ELEVACION (m) |
|------------------|---------------|
| LAZARO CARDENAS  | 831.09        |
| P. ELIAS CALLES  | 289.02        |
| ALVARO OBREGON   | 105.25        |
| ABRAHAM GONZALEZ | 2047.88       |
| A.RUIZ CORTINES  | 134.70        |
| EL MOLINITO      | 281.25        |
| A. RODRIGUEZ L.  | 218.92        |
| CUAUHTEMOC       | 592.80        |
| I.R. ALATORRE    | 97.82         |