

**INFORMACION HIDROMÉTRICA, CLIMATOLÓGICA Y DE PRESAS DE LA REGION**

| PRESA              | CAP.               | CAP.               | VOL.               | ALMAC.             | ALMAC.             | ALMAC.             | DIFERENCIA         | ENTRADA CUENCA<br>PROPAG(=) | SALIDAS        |            |            | %                   | %                   | DIF. ALM.           | LLUVIA | ENTRADAS           |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------------|----------------|------------|------------|---------------------|---------------------|---------------------|--------|--------------------|
|                    | NAME               | NAMO               | MUERTO             | 2015               | AYER               | HOY                | EN 24 hr           |                             | VERTEDOR       |            |            | 2016                | 2015                | 2016-15             | (mm)   | (mm <sup>3</sup> ) |
|                    | (hm <sup>2</sup> ) | (hm <sup>2</sup> ) | (hm <sup>3</sup> ) | (hm <sup>3</sup> ) | (hm <sup>3</sup> ) | (hm <sup>3</sup> ) | (hm <sup>3</sup> ) |                             | O.T. (Gm)      | LIBRE      | CONTROLADO | (m <sup>3</sup> /s) | (m <sup>3</sup> /s) | (m <sup>3</sup> /s) |        |                    |
| LAZARO CARDENAS    | 1,116.5            | 703.4              | 0.0                | 715.203            | 700.763            | 700.388            | -0.4               | 5.4                         | 7.000          | 0.0        | 0.0        | 99.6                | 101.7               | -14.8               | 0.0    | 0.47               |
| P. ELIAS CALLES    | 3,512.0            | 2,833.1            | 602.6              | 2,501.220          | 2,547.980          | 2,545.990          | -2.0               | 22.5                        | 38.310         | 0.0        | 0.0        | 89.9                | 88.3                | -44.8               | 0.0    | 1.94               |
| ALVARO OBREGON     | 4,409.4            | 3,023.1            | 55.0               | 1,670.420          | 1,649.560          | 1,642.200          | -7.4               | 0.0                         | 98.880         | 0.0        | 0.0        | 54.3                | 55.3                | -28.2               | 0.0    | 0.00               |
| ABRAHAM GONZALEZ   | 109.6              | 85.4               | 1.6                | 82.605             | 80.841             | 80.652             | -0.2               | 0.0                         | 1.600          | 0.0        | 0.0        | 94.4                | 96.7                | -2.0                | 0.0    | 0.00               |
| A.RUIZ CORTINES    | 1,822.6            | 950.3              | 24.8               | 388.160            | 288.495            | 285.495            | -3.0               | 3.6                         | 36.880         | 0.0        | 0.0        | 30.0                | 40.8                | -102.7              | 0.0    | 0.31               |
| EL MOLINITO        | 233.9              | 130.2              | 0.5                | 80.175             | 22.452             | 22.399             | -0.1               | 0.0                         | 0.120          | 0.0        | 0.0        | 17.2                | 61.6                | -57.8               | 0.0    | 0.00               |
| A. RODRIGUEZ L.    | 284.5              | 219.5              | 0.0                | 5.770              | 5.581              | 5.534              | 0.0                | 0.0                         | 0.220          | 0.0        | 0.0        | 2.5                 | 2.6                 | -0.2                | 0.0    | 0.00               |
| CUAUHTEMOC         | 66.3               | 41.5               | 1.5                | 24.722             | 15.457             | 15.457             | 0.0                | 1.0                         | 0.810          | 0.0        | 0.0        | 37.3                | 59.6                | -9.3                | 0.0    | 0.09               |
| I.R. ALATORRE      | 29.7               | 16.2               | 1.0                | 0.000              | 0.246              | 0.242              | 0.0                | 0.0                         | 0.000          | 0.0        | 0.0        | 1.5                 | 0.0                 | 0.2                 | 0.0    | 0.00               |
| <b>T O T A L</b>   | <b>11,584.4</b>    | <b>8,002.7</b>     | <b>687.1</b>       | <b>5,468.275</b>   | <b>5,311.375</b>   | <b>5,298.357</b>   | <b>-13.0</b>       | <b>32.5</b>                 | <b>183.820</b> | <b>0.0</b> | <b>0.0</b> | <b>66.2</b>         | <b>68.3</b>         | <b>-169.9</b>       |        | <b>2.81</b>        |
| SUBTOTAL RÍO YAQUI | 9,037.8            | 6,559.6            | 657.6              | 4,886.843          | 4,898.303          | 4,888.578          | -9.7               | 27.9                        | 144.190        | 0.0        | 0.0        | 74.5                | 74.5                | -1.7                |        | 2.41               |

| PRESA           | ALM. AGUJAS (hm <sup>3</sup> ) | PRESA                | ALM. VERT. LIBRE | Qm = GASTO MEDIO |
|-----------------|--------------------------------|----------------------|------------------|------------------|
| LAZARO CARDENAS | 761.7                          | ADOLFO RUIZ CORTINES | 1341.80          |                  |
| ALVARO OBREGON  | 3,309.2                        |                      |                  |                  |

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

| CUENCA   | ESTACION     | ESCALA (m) | GASTO (m <sup>3</sup> /s) | CUENCA    | ESTACION         | ESCALA (m) | GASTO (m <sup>3</sup> /s) |
|----------|--------------|------------|---------------------------|-----------|------------------|------------|---------------------------|
| SONOYTA  | SONOYTA II   | 386.00     | 0.00                      | MATAPE    | PUNTA DE AGUA II | 0.77       | 0.00                      |
| ASUNCION | PITQUITO II  | 286.10     | 0.00                      | COCORAQUE | COCORAQUE        | 0.99       | 0.00                      |
|          | STA. ROSA II | 529.30     | 0.00                      |           | GUÁPOCA-CFE      | 0.59       | 1.30                      |
| SONORA   | OREGANO II   | 5.00       | 0.08                      | YAQUI     | PASO NACORI-CFE  | 0.72       | 2.80                      |
|          | EL CAJON     | 1.62       | 0.29                      |           | EL CUBIL-CFE     | 1.11       | 7.44                      |
|          | ARIZPE-CEA   | -          | -                         |           | SAN BERNARDO     | 155.24     | 0.97                      |
|          |              |            |                           | MAYO      | TEZOCOMA         | 10.00      | 0.00                      |

**CLIMATOLÓGÍA**

| CUENCA     | ESTACION       | PRECIP. (mm) | TEMPERATURA °C |      |      | EVAP. (mm) | FENOMENOS DIVERSOS | CUENCA     | ESTACION      | PRECIP. (mm) | TEMPERATURA °C |      |      | EVAP. (mm) | FENOMENOS DIVERSOS |  |
|------------|----------------|--------------|----------------|------|------|------------|--------------------|------------|---------------|--------------|----------------|------|------|------------|--------------------|--|
|            |                |              | AMB.           | MAX. | MIN. |            |                    |            |               |              | AMB.           | MAX. | MIN. |            |                    |  |
| SONOYTA    | SONOYTA        | 0.0          | 7.5            | 21.0 | 7.0  | 4.75       |                    | COCORAQUE  | COCORAQUE     | 0.0          | 19.0           | 29.5 | 11.0 | 4.4        |                    |  |
|            | PTO. PEÑASCO   | 0.0          | 15.0           | 22.0 | 11.6 | 5.34       |                    |            | YAQUI         | GUÁPOCA-CFE  | 0.0            | 12.1 | 25.8 | 7.5        | 7.4                |  |
| SANTA CRUZ | NOGALES        | 0.0          | 4.3            | 17.3 | 4.3  |            |                    |            | P. NACORI-CFE | 0.0          | 16.4           | 27.8 | 16.4 | -          |                    |  |
| ASUNCION   | ALTAR          | 0.0          | 9.4            | 21.0 | 8.8  | 5.60       |                    |            | EL CUBIL-CFE  | 0.0          | 18.2           | 33.3 | 12.9 | 7.7        |                    |  |
|            | PITQUITO       | 0.0          | 2.5            | 18.0 | 2.5  |            |                    |            | ABRAHAM GLEZ  | 0.0          | 6.0            | 22.0 | 6.0  | 8.7        |                    |  |
|            | IMURIS         | 0.0          | 8.0            | 23.0 | 3.0  | 5.85       |                    |            | AGUA PRIETA   | 0.0          | 10.0           | 23.0 | 9.0  | 4.9        |                    |  |
|            | CUAUHTEMOC     | 0.0          | 11.5           | 23.0 | 3.5  |            |                    |            | ANGOSTURA     | 0.0          | 13.5           | 24.0 | 13.5 | 8.3        |                    |  |
|            | STA. ROSA II   | 0.0          | 5.0            | 20.0 | 4.0  |            |                    |            | ARIBABI       | 0.0          | 9.0            | 24.0 | 0.0  |            |                    |  |
| SONORA     | ACONCHI        | 0.0          | 13.0           | 24.0 | 12.0 |            |                    |            | BACERAC       | 0.0          | 12.0           | 28.0 | 10.0 |            |                    |  |
|            | ARIZPE-CEA     | 0.0          | 2.0            | 20.0 | 2.0  |            |                    |            | HUACHINERAS   | 0.0          | 8.0            | 28.0 | 4.0  |            |                    |  |
|            | BACANUCHI      | 0.0          | 4.0            | 23.0 | 3.0  | 5.75       |                    |            | TEPACHE       | 0.0          | -              | -    | -    |            |                    |  |
|            | BANAMICHI      | 0.0          | 12.0           | 26.0 | 9.0  |            |                    |            | P. EL NOVILLO | 0.0          | 18.2           | 30.0 | 12.1 | 8.9        |                    |  |
|            | RAYON          | 0.0          | -              | -    | -    | -          |                    |            | NACAZARI      | 0.0          | -              | -    | -    | -          |                    |  |
|            | EL CAJON       | 0.0          | 7.5            | 23.0 | 6.0  | 4.15       |                    |            | OVIACHIC      | 0.0          | 17.0           | 29.0 | 16.0 | 5.2        |                    |  |
|            | HILLO. NTE.    | 0.0          | 13.0           | 25.0 | 11.5 |            |                    |            | CD. OBREGON   | 0.0          | 18.0           | 29.0 | 15.5 | -          |                    |  |
|            | HILLO. OBS.    | 0.0          | 13.5           | 26.5 | 13.0 | 5.31       |                    |            | YECORA        | 0.0          | 6.0            | 23.5 | 3.0  | 3.1        |                    |  |
|            | OREGANO II     | 0.0          | 12.0           | 29.0 | 10.5 | 4.83       |                    |            | YEPACHIC      | 0.0          | 8.0            | 24.0 | 4.0  |            |                    |  |
|            | EL MOLINITO    | 0.0          | 11.5           | 27.5 | 9.5  | 4.70       |                    |            | TEMOSACHIC    | 0.0          | 4.6            | 22.2 | 4.6  | 7.8        |                    |  |
|            | QUEROBABI      | 0.0          | 9.3            | 21.5 | 3.8  |            |                    |            | VICAM         | 0.0          | 15.0           | 29.0 | 13.0 | 5.2        |                    |  |
|            | CANANEA        | 0.0          | 4.5            | 18.5 | 4.0  |            |                    |            | OBS. OBREGÓN  | 0.0          | 17.0           | 27.6 | 15.5 | 4.7        |                    |  |
| MATAPE     | MAZATAN        | 0.0          | -              | -    | -    | -          |                    |            | MAYO          | BASASEACHIC  | 0.0            | 6.3  | 18.3 | 6.3        |                    |  |
|            | P. PTA. AGUA   | 0.0          | 15.0           | 28.0 | 11.5 | 3.18       |                    |            | A.R. CORTINES | 0.0          | 18.0           | 31.0 | 15.5 | 5.9        |                    |  |
|            | PTA. AGUA II   | 0.0          | 11.0           | 28.0 | 9.0  | 4.50       |                    |            | NAVOJOA       | 0.0          | 16.0           | 31.0 | 13.0 | 6.1        |                    |  |
|            | EMPALME        | 0.0          | 17.0           | 28.6 | 14.8 | 3.00       |                    |            | S. BERNARDO   | 0.0          | 18.5           | 32.0 | 16.0 | 7.8        |                    |  |
|            | S. J. DE PIMAS | 0.0          | 11.0           | 28.0 | 10.0 |            |                    |            | TEZOCOMA      | 0.0          | 15.5           | 29.0 | 14.0 | 6.2        |                    |  |
| GUAYMAS    | 0.0            | 15.9         | 24.0           | 15.9 |      |            |                    | RÍO FUERTE | ALAMOS        | 0.0          | 14.1           | 27.5 | 13.9 |            |                    |  |

| ESTACIONES DE APOYO       |       |                          |        |        |          |          |           |      |         |
|---------------------------|-------|--------------------------|--------|--------|----------|----------|-----------|------|---------|
| PRECIPITACIÓN MÁXIMA (mm) | 0.0   | NO SE REPORTARON LLUVIAS |        |        |          | ESTACION | PRECIP.   | EST. | PRECIP. |
|                           | YAQUI | MAYO                     | MATAPE | SONORA | ASUNCIÓN | SONOYTA  | HILLO SUR |      |         |
| PRECIPITACIÓN MEDIA       | 0.0   | 0.0                      | 0.0    | 0.0    | 0.0      | 0.0      |           |      |         |
| TEMPERATURA MÍNIMA        | 0.0   | ARIBABI                  |        |        |          |          |           |      |         |
| TEMPERATURA MÁXIMA        | 33.3  | EL CUBIL-CFE             |        |        |          |          |           |      |         |

| PRESA            | NAME (m) | NAMO (m) | ELEVACION (m). A LA FECHA |
|------------------|----------|----------|---------------------------|
| LAZARO CARDENAS  | 840.15   | 830.70   | 830.62                    |
| P. ELIAS CALLES  | 296.80   | 290.50   | 287.55                    |
| ALVARO OBREGON   | 112.20   | 105.50   | 96.62                     |
| ABRAHAM GONZALEZ | 2051.30  | 2047.80  | 2047.04                   |
| A.RUIZ CORTINES  | 145.47   | 135.00   | 120.70                    |
| EL MOLINITO      | 293.40   | 289.36   | 280.54                    |
| A. RODRIGUEZ L.  | 228.40   | 226.98   | 216.83                    |
| CUAUHTEMOC       | 600.25   | 597.00   | 591.61                    |
| I. R. ALATORRE   | 102.71   | 100.00   | 92.40                     |