

**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                | 714.814            | 709.101            | 708.720            | -0.4               | 1.4                         | 2.500          | 1.5        | 0.0        | 100.8               | 101.6               | -6.1                | 0.0    | 0.12               |
| P. ELIAS CALLES    | 3,512.0            | 2,833.1            | 602.6              | 2,487.250          | 2,562.900          | 2,560.910          | -2.0               | 9.4                         | 25.030         | 0.0        | 0.0        | 90.4                | 87.8                | 73.7                | 0.0    | 0.81               |
| ALVARO OBREGON     | 4,409.4            | 3,023.1            | 55.0               | 1,805.130          | 1,792.200          | 1,779.280          | -12.9              | 0.8                         | 167.690        | 0.0        | 0.0        | 58.9                | 59.7                | -25.9               | 0.0    | 0.07               |
| ABRAHAM GONZALEZ   | 109.6              | 85.4               | 1.6                | 82.794             | 82.731             | 82.605             | -0.1               | 0.7                         | 1.900          | 0.0        | 0.0        | 96.7                | 96.9                | -0.2                | 0.0    | 0.06               |
| A.RUIZ CORTINES    | 1,822.6            | 950.3              | 24.8               | 436.331            | 342.045            | 337.207            | -4.8               | 8.9                         | 63.040         | 0.0        | 0.0        | 35.5                | 45.9                | -99.1               | 0.0    | 0.77               |
| EL MOLINITO        | 233.9              | 130.2              | 0.5                | 80.768             | 22.927             | 22.874             | -0.1               | 0.0                         | 0.290          | 0.0        | 0.0        | 17.6                | 62.0                | -57.9               | 0.0    | 0.00               |
| A. RODRIGUEZ L.    | 284.5              | 219.5              | 0.0                | 6.194              | 6.410              | 6.288              | -0.1               | 0.0                         | 0.230          | 0.0        | 0.0        | 2.9                 | 2.8                 | 0.1                 | 0.0    | 0.00               |
| CUAUHTEMOC         | 66.3               | 41.5               | 1.5                | 25.595             | 16.049             | 15.938             | -0.1               | 0.0                         | 0.610          | 0.0        | 0.0        | 38.4                | 61.7                | -9.7                | 0.0    | 0.00               |
| I.R. ALATORRE      | 29.7               | 16.2               | 1.0                | 0.001              | 0.428              | 0.405              | 0.0                | 0.0                         | 0.190          | 0.0        | 0.0        | 2.5                 | 0.0                 | 0.4                 | 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>5,638.877</b>   | <b>5,534.791</b>   | <b>5,514.227</b>   | <b>-20.6</b>       | <b>21.2</b>                 | <b>261.480</b> | <b>1.5</b> | <b>0.0</b> | <b>68.9</b>         | <b>70.5</b>         | <b>-124.7</b>       |        | <b>1.83</b>        |
| SUBTOTAL RÍO YAQUI | 9,037.4            | 6,559.6            | 657.6              | 5,007.194          | 5,064.201          | 5,048.910          | -15.3              | 11.5                        | 195.220        | 1.5        | 0.0        | 77.0                | 76.3                | 41.7                |        | 1.00               |

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

Qm = GASTO MEDIO

**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     | 0.63       | 1.81                      |
| SONORA   | OREGANO II   | 5.00       | 0.09                      | YAQUI     | PASO NACORI- CFE | 0.76       | 3.38                      |
|          | EL CAJON     | 1.62       | 0.28                      |           | EL CUBIL- CFE    | 1.12       | 7.84                      |
|          | ARIZPE-CEA   | -          | -                         |           | SAN BERNARDO     | 155.26     | 1.70                      |
|          |              |            |                           | MAYO      | TEZOCOMA         | 10.00      | 0.00                      |

**CLIMATOLÓGIA**

| 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          | 11.0           | 32.0 | 10.0 | 5.96       |                    | COCORAQUE | COCORAQUE      | 0.0           | 14.0           | 32.0 | 10.0 | 5.0        |                    |  |
|            | PTO. PEÑASCO   | 0.0          | 15.5           | 27.2 | 14.6 | 4.00       |                    |           | YAQUI          | GUÁPOCA-CFE   | 0.0            | 3.1  | 27.3 | 0.4        | 4.7                |  |
| SANTA CRUZ | NOGALES        | 0.0          | 10.8           | 26.0 | 10.3 |            |                    |           | P. NACORI- CFE | 0.0           | 14.3           | 34.2 | 13.7 | 4.2        |                    |  |
| ASUNCION   | ALTAR          | 0.0          | 13.8           | 34.2 | 10.5 | 7.60       |                    |           | EL CUBIL- CFE  | 0.0           | 13.1           | 37.8 | 9.7  | 5.8        | HELADA             |  |
|            | PITQUITO       | 0.0          | 11.0           | 32.0 | 7.5  |            |                    |           | ABRAHAM GLEZ   | 0.0           | 2.0            | 24.0 | 0.0  | 5.3        |                    |  |
|            | IMURIS         | 0.0          | 8.0            | 30.5 | 4.0  | 6.27       |                    |           | AGUA PRIETA    | 0.0           | 9.0            | 30.0 | 8.0  | 5.1        |                    |  |
|            | CUAUHTEMOC     | 0.0          | 15.5           | 34.0 | 8.5  |            |                    |           | ANGOSTURA      | 0.0           | 14.2           | 30.0 | 14.2 | 5.2        |                    |  |
|            | STA. ROSA II   | 0.0          | 11.0           | 28.0 | 9.0  |            |                    |           | ARIBABI        | 0.0           | 9.0            | 27.0 | 4.0  |            |                    |  |
| SONORA     | ACONCHI        | 0.0          | 9.0            | 32.0 | 8.0  |            |                    |           | BACERAC        | 0.0           | 7.0            | 33.0 | 6.0  |            |                    |  |
|            | ARIZPE-CEA     | 0.0          | 3.0            | 28.0 | 3.0  |            |                    |           | HUACHINERAS    | 0.0           | 11.0           | 30.0 | 6.0  |            |                    |  |
|            | BACANUCHI      | 0.0          | -              | -    | -    | -          |                    |           | TEPACHE        | 0.0           | 13.0           | 35.0 | 13.0 |            |                    |  |
|            | BANAMICHI      | 0.0          | 11.0           | 34.0 | 10.5 |            |                    |           | P. EL NOVILLO  | 0.0           | 14.8           | 38.0 | 12.8 | 8.7        |                    |  |
|            | RAYON          | 0.0          | -              | -    | -    | -          |                    |           | NACAZARI       | 0.0           | 8.0            | 28.0 | 6.0  | 6.1        |                    |  |
|            | EL CAJON       | 0.0          | 9.0            | 36.0 | 6.0  | 6.21       |                    |           | OVACHIC        | 0.0           | 18.0           | 33.0 | 16.0 | 5.2        |                    |  |
|            | HILLO. NTE.    | 0.0          | 17.5           | 34.0 | 16.0 |            |                    |           | CD. OBREGON    | 0.0           | 19.0           | 32.0 | 14.0 | 4.8        |                    |  |
|            | HILLO. OBS.    | 0.0          | 14.0           | 36.5 | 13.5 | 6.68       |                    |           | YECORA         | 0.0           | 2.0            | 27.0 | -0.5 | 3.7        | HELADA             |  |
|            | OREGANO II     | 0.0          | 16.0           | 36.0 | 14.5 | 6.53       |                    |           | YEPACHIC       | 0.0           | 4.0            | 25.0 | 2.0  |            | HELADA             |  |
|            | EL MOLINITO    | 0.0          | 13.5           | 35.0 | 13.5 | 6.10       |                    |           | TEMOSACHIC     | 0.0           | -0.8           | 24.0 | -0.8 | 4.2        | HELADA             |  |
| QUEROBABI  | 0.0            | 13.7         | 30.6           | 6.9  |      |            |                    | VICAM     | 0.0            | 18.0          | 31.5           | 14.0 | 6.2  |            |                    |  |
|            | CANANEA        | 0.0          | 9.5            | 26.5 | 9.0  |            |                    |           | OBS. OBREGÓN   | 0.0           | 17.2           | 29.6 | 14.8 | 3.0        |                    |  |
| MATAPE     | MAZATAN        | 0.0          | -              | -    | -    | -          |                    |           | MAYO           | BASASEACHIC   | 0.0            | -1.9 | 21.1 | -1.9       |                    |  |
|            | P. PTA. AGUA   | 0.0          | 11.5           | 32.5 | 10.5 | 5.12       |                    |           |                | A.R. CORTINES | 0.0            | 17.0 | 30.0 | 15.5       | 6.6                |  |
|            | PTA. AGUA II   | 0.0          | 7.5            | 34.0 | 7.5  | 7.05       |                    |           |                | NAVOJOA       | 0.0            | 15.5 | 32.0 | 13.0       | 6.1                |  |
|            | EMPALME        | 0.0          | 16.0           | 29.9 | 15.1 | 5.22       |                    |           |                | S. BERNARDO   | 0.0            | 17.5 | 34.5 | 15.0       | 8.2                |  |
|            | S. J. DE PIMAS | 0.0          | 11.0           | 34.0 | 10.0 |            |                    |           |                | TEZOCOMA      | 0.0            | 13.0 | 32.5 | 11.5       | 8.0                |  |
|            | GUAYMAS        | 0.0          | 15.3           | 30.3 | 13.6 |            |                    |           |                | RÍO FUERTE    | ALAMOS         | 0.0  | 17.2 | 30.5       | 17.2               |  |

| PRECIPITACIÓN MÁXIMA (mm) |       |               |        |        |          |         | ESTACIONES DE APOYO |         |      |         |
|---------------------------|-------|---------------|--------|--------|----------|---------|---------------------|---------|------|---------|
|                           | YAQUI | MAYO          | MATAPE | SONORA | ASUNCION | SONOYTA | ESTACION            | PRECIP. | EST. | PRECIP. |
| PRECIPITACIÓN MÁXIMA      | 0.0   | 0.0           | 0.0    | 0.0    | 0.0      | 0.0     | HILLO SUR           |         |      |         |
| TEMPERATURA MÍNIMA        | -1.9  | BASASEACHIC   |        |        |          |         |                     |         |      |         |
| TEMPERATURA MÁXIMA        | 38.0  | P. EL NOVILLO |        |        |          |         |                     |         |      |         |

| PRESA            | NAME (m) | NAMO (m) | ELEVACION (m). A LA FECHA |
|------------------|----------|----------|---------------------------|
| LAZARO CARDENAS  | 840.15   | 830.70   | 830.84                    |
| P. ELIAS CALLES  | 296.80   | 290.50   | 287.70                    |
| ALVARO OBREGON   | 112.20   | 105.50   | 97.70                     |
| ABRAHAM GONZALEZ | 2051.30  | 2047.80  | 2047.35                   |
| A.RUIZ CORTINES  | 145.47   | 135.00   | 122.43                    |
| EL MOLINITO      | 293.40   | 289.36   | 280.63                    |
| A. RODRIGUEZ L.  | 228.40   | 226.98   | 216.99                    |
| CUAUHTEMOC       | 600.25   | 597.00   | 591.74                    |
| I. R. ALATORRE   | 102.71   | 100.00   | 92.71                     |