Phytosociological Research Center

www.globalbioclimatics.org

Worldwide Bioclimatic Classification System

Prof.Dr. Salvador Rivas-Martinez

(Adapted to Synoptical Table 30/08/2017)

ZACATECAS (MEXICO)

Altitude: 2612 m.

Latitude: 22°47’N  Longitude: 102°35’W

Temperature observation period.: 1950−1980 (31)

Rainfall observation period....: 1950−1980 (31)

<table>
<thead>
<tr>
<th></th>
<th>Ti</th>
<th>Mi</th>
<th>mi</th>
<th>M’i</th>
<th>m’i</th>
<th>Pi</th>
<th>Epi(C/mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan.</td>
<td>9.60</td>
<td>0.00</td>
<td>0.00</td>
<td>22.00</td>
<td>−8.10</td>
<td>7.0</td>
<td>32.68</td>
</tr>
<tr>
<td>Feb.</td>
<td>10.70</td>
<td>0.00</td>
<td>0.00</td>
<td>23.30</td>
<td>−9.20</td>
<td>3.0</td>
<td>36.11</td>
</tr>
<tr>
<td>Mar.</td>
<td>12.90</td>
<td>0.00</td>
<td>0.00</td>
<td>26.00</td>
<td>−3.80</td>
<td>2.0</td>
<td>53.57</td>
</tr>
<tr>
<td>Apr.</td>
<td>15.10</td>
<td>0.00</td>
<td>0.00</td>
<td>26.50</td>
<td>−1.60</td>
<td>4.0</td>
<td>67.94</td>
</tr>
<tr>
<td>May.</td>
<td>16.60</td>
<td>0.00</td>
<td>0.00</td>
<td>28.70</td>
<td>6.00</td>
<td>18.0</td>
<td>79.51</td>
</tr>
<tr>
<td>Jun.</td>
<td>16.20</td>
<td>0.00</td>
<td>0.00</td>
<td>27.40</td>
<td>5.90</td>
<td>11.0</td>
<td>53.08</td>
</tr>
<tr>
<td>Jul.</td>
<td>14.60</td>
<td>0.00</td>
<td>0.00</td>
<td>24.80</td>
<td>7.20</td>
<td>64.0</td>
<td>69.90</td>
</tr>
<tr>
<td>Aug.</td>
<td>14.80</td>
<td>0.00</td>
<td>0.00</td>
<td>24.80</td>
<td>7.50</td>
<td>66.0</td>
<td>69.90</td>
</tr>
<tr>
<td>Sep.</td>
<td>13.70</td>
<td>0.00</td>
<td>0.00</td>
<td>24.60</td>
<td>3.10</td>
<td>54.0</td>
<td>57.46</td>
</tr>
<tr>
<td>Oct.</td>
<td>13.20</td>
<td>0.00</td>
<td>0.00</td>
<td>23.90</td>
<td>1.70</td>
<td>23.0</td>
<td>53.08</td>
</tr>
<tr>
<td>Nov.</td>
<td>11.50</td>
<td>0.00</td>
<td>0.00</td>
<td>22.80</td>
<td>−3.20</td>
<td>10.0</td>
<td>41.08</td>
</tr>
<tr>
<td>Dec.</td>
<td>10.10</td>
<td>0.00</td>
<td>0.00</td>
<td>20.50</td>
<td>−6.80</td>
<td>4.0</td>
<td>34.58</td>
</tr>
<tr>
<td>Year</td>
<td>13.25</td>
<td>0.00</td>
<td>0.00</td>
<td>24.61</td>
<td>−0.11</td>
<td>266</td>
<td>679.84</td>
</tr>
</tbody>
</table>

**BIOCLIMATIC INDICES AND DIAGNOSIS**

<table>
<thead>
<tr>
<th>Index</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermicity index (It)</td>
<td>325</td>
</tr>
<tr>
<td>Compensated thermicity index (Itc)</td>
<td>325</td>
</tr>
<tr>
<td>Simple continentality index (Ic)</td>
<td>7.0</td>
</tr>
<tr>
<td>Diurnality index (Id)</td>
<td>0.0</td>
</tr>
<tr>
<td>Annual ombrothermic index (Io)</td>
<td>1.67</td>
</tr>
<tr>
<td>Monthly dry ombrohermic index (Iod1)</td>
<td>0.16</td>
</tr>
<tr>
<td>Bimonthly dry ombrothermic index (Iod2)</td>
<td>0.21</td>
</tr>
<tr>
<td>Three monthly dry ombrothermic index (Iod3)</td>
<td>0.23</td>
</tr>
<tr>
<td>Four monthly dry ombrothermic index (Iod4)</td>
<td>0.33</td>
</tr>
<tr>
<td>Annual ombro-evaporation index (Ioe)</td>
<td>4.43</td>
</tr>
<tr>
<td>Annual positive temperature (Tp)</td>
<td>1590</td>
</tr>
<tr>
<td>Annual negative temperature (Tn)</td>
<td>0</td>
</tr>
<tr>
<td>Dry station temperature (Td)</td>
<td>387</td>
</tr>
<tr>
<td>Positive precipitation (Pp)</td>
<td>266</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>N. of Months</th>
<th>P&gt;4T</th>
<th>P:2T−4T</th>
<th>PT−2T</th>
<th>P&lt;T</th>
<th>T&lt;0</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Latitudinal Belt....: Eutropical
Continents: Hyperoceanic - Low Euhyperoceanic

Bioclimatic (Variant): TROPICAL XERIC (PLUVISEROTIN,SEMIARID)

Bioclimatic Belt....: UPPER MESOTROPICAL UPPER SEMIARID
ZACATECAS (MEXICO) 2612 m

P = 266 22° 47'N 102° 35'W 31/31 y.  
T = 13.3° Ic = 7.0  Tp = 1590  Tn = 0  
m = 9.6° M = 9.6° Itc = 325  Io = 1.7

TROPICAL XERIC (PLUVISEROTIN)  
UPPER MESOTROPICAL UPPER SEMIARID

WATER INDEX CARD ZACATECAS (MEXICO)
Altitude: 2612 m. Latitude: 22° 47'N

<table>
<thead>
<tr>
<th></th>
<th>T</th>
<th>PE</th>
<th>P</th>
<th>VR</th>
<th>R</th>
<th>RE</th>
<th>DF</th>
<th>SP</th>
<th>DR</th>
<th>HC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan.</td>
<td>9.6</td>
<td>33</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>7</td>
<td>26</td>
<td>0</td>
<td>0</td>
<td>-0.7</td>
</tr>
<tr>
<td>Feb.</td>
<td>10.7</td>
<td>36</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>33</td>
<td>0</td>
<td>0</td>
<td>-0.9</td>
</tr>
<tr>
<td>Mar.</td>
<td>12.9</td>
<td>54</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>52</td>
<td>0</td>
<td>0</td>
<td>-0.9</td>
</tr>
<tr>
<td>Apr.</td>
<td>15.1</td>
<td>68</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>64</td>
<td>0</td>
<td>0</td>
<td>-0.9</td>
</tr>
<tr>
<td>May.</td>
<td>16.6</td>
<td>83</td>
<td>11</td>
<td>0</td>
<td>0</td>
<td>11</td>
<td>72</td>
<td>0</td>
<td>0</td>
<td>-0.8</td>
</tr>
<tr>
<td>Jun.</td>
<td>16.2</td>
<td>80</td>
<td>18</td>
<td>0</td>
<td>0</td>
<td>18</td>
<td>62</td>
<td>0</td>
<td>0</td>
<td>-0.7</td>
</tr>
<tr>
<td>Jul.</td>
<td>14.6</td>
<td>71</td>
<td>64</td>
<td>0</td>
<td>0</td>
<td>64</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Aug.</td>
<td>14.8</td>
<td>70</td>
<td>66</td>
<td>0</td>
<td>0</td>
<td>66</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Sep.</td>
<td>13.7</td>
<td>57</td>
<td>54</td>
<td>0</td>
<td>0</td>
<td>54</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Oct.</td>
<td>13.2</td>
<td>53</td>
<td>23</td>
<td>0</td>
<td>0</td>
<td>23</td>
<td>30</td>
<td>0</td>
<td>0</td>
<td>-0.5</td>
</tr>
<tr>
<td>Nov.</td>
<td>11.5</td>
<td>41</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>31</td>
<td>0</td>
<td>0</td>
<td>-0.7</td>
</tr>
<tr>
<td>Dec.</td>
<td>10.1</td>
<td>35</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>31</td>
<td>0</td>
<td>0</td>
<td>-0.8</td>
</tr>
<tr>
<td>Year</td>
<td>13.3</td>
<td>680</td>
<td>266</td>
<td>*</td>
<td>*</td>
<td>266</td>
<td>414</td>
<td>0</td>
<td>0</td>
<td>*</td>
</tr>
</tbody>
</table>

R = Reserve  VR = Variation of the reserve  RE = Real evapotranspiration  
DR = Drainage  HC = Humidity coefficient  DF = Deficit  SP = Superavit

All over the year, there is hydric deficit.
ZACATECAS (MEXICO)

Latitude: 22°47'N   Longitude: 102°35'W   Altitude: 2612 m

SUMMARY OF RIVAS–MARTINEZ CLASSIFICATION

Continentiity Index  
+ Type ................: A. Hyperoceanic  
+ Subtype .............: 2. Euhyperoceanic  
+ Variant .............: b. Low

Thermic types  
+ Latitudinal zone ....: A. Warm  
+ Latitudinal belt ....: 2. Eutropical  
+ Thermic type .......: B. Temperate  
+ Thermic subtype .....: 4. Temperate

Bioclimatic types  
+ Macrobioclimate ......: A. TROPICAL  
+ Bioclimate ..........: 3. XERIC  
+ Bioclimatic variant : e. PLUVISEROTIN,SEMIARID  
+ Thermic type.........: 3. MESOTROPICAL  
+ Thermic subtype......: a. UPPER  
+ Ombrothermic type ...: 4. SEMIARID  
+ Ombrothermic subtype : a. UPPER

Bioclimatic Classification ...............: Trxe(Pse).Mtr.Sar

ZACATECAS (MEXICO)

Latitude: 22°47'N   Longitude: 102°35'W   Altitude: 2612 m

PRECIPITATION PARAMETERS

<table>
<thead>
<tr>
<th>Seasons</th>
<th>Dec+Jan+Feb</th>
<th>Mar+Apr+May</th>
<th>Jun+Jul+Aug</th>
<th>Sep+Oct+Nov</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rainfall</td>
<td>Ttr1−1</td>
<td>Ttr2−2</td>
<td>Ttr3−3</td>
<td>Ttr4−4</td>
</tr>
<tr>
<td>14</td>
<td>17</td>
<td>148</td>
<td>87</td>
<td></td>
</tr>
</tbody>
</table>

Tropical rainfall rhythms:  3 > 4 > 2 > 1

ZACATECAS (MEXICO)

Latitude: 22°47'N   Longitude: 102°35'W   Altitude: 2612 m

TEMPERATURE PARAMETERS

| Average warmest month [T].................(Tmax): 16.6 |
| Average coldest month [T]..................(Tmin): 9.6 |
| Maximum temp. warmest month [M]..........(Tmmax): 0.0 |
| Minimum temp. coldest month [m].........(Tmmin): 0.0 |
| Absolute Max.temp. warmest month [M']....(Tamax): 28.7 |
| Absolute Min.temp. coldest month [m']....(Tamin): -9.2 |
| First warmest contrasted month [M]......(Tcmax): 0.0 (0) |
| First coldest contrasted month [m]......(Tcmin): 0.0 (0) |
| Dry station temperature...................(Td): 387 |
| Positive temperature dryest 3 months....(Tpd): 387 |
| Positive temperature dryest 2 months....(Tpd2): 236 |
| Positive temperature dryest 1 month.....(Tpd1): 129 |
| Positive temperature warmest 3 months... (Tps): 479 |
| Positive temperature warmest 2 months... (Tps2): 328 |
| Positive temperature warmest 1 month.... (Tps1): 166 |
| Positive temperature coldest 3 months... (Tpw): 304 |
| Positive temperature coldest 2 months... (Tpw2): 197 |
| Positive temperature coldest 1 month.... (Tpw1): 96 |
### SEASONAL PARAMETERS

<table>
<thead>
<tr>
<th>Season</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warmest semester...</td>
<td>o o o o o o o o</td>
<td>o o o o o o o o</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dryest semester...</td>
<td>o o o o o o o o</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warmest 4 months...</td>
<td>o o o o o o o o</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dryest 4 months...</td>
<td>o o o o o o o o</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vegetation Activity</td>
<td>o o o o o o o o</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultragelid...</td>
<td>[M'&lt;=0] (Pf)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hypergelid...</td>
<td>[M &lt;=0] (Pf)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gelid.......</td>
<td>[T &lt;=0] (Pf)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subgelid.....</td>
<td>[m &lt;=0] (Pf)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pregelid.....</td>
<td>[m'&lt;=0] (Pf)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agelid....</td>
<td>[m'&gt; 0] (Pf)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HiperAgelid..</td>
<td>[all&gt;0] (Pf)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### OMBROTHERMIC PARAMETERS

<table>
<thead>
<tr>
<th>Month</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pp(x10)</td>
<td>40</td>
<td>70</td>
<td>30</td>
<td>20</td>
<td>40</td>
<td>110</td>
<td>180</td>
<td>640</td>
<td>660</td>
<td>540</td>
<td>230</td>
<td>100</td>
</tr>
<tr>
<td>Tp</td>
<td>101</td>
<td>96</td>
<td>107</td>
<td>129</td>
<td>151</td>
<td>166</td>
<td>162</td>
<td>146</td>
<td>148</td>
<td>137</td>
<td>132</td>
<td>115</td>
</tr>
<tr>
<td>Io (Iom)</td>
<td>0.40</td>
<td>0.73</td>
<td>0.28</td>
<td>0.16</td>
<td>0.26</td>
<td>0.66</td>
<td>1.11</td>
<td>4.38</td>
<td>4.46</td>
<td>3.94</td>
<td>1.74</td>
<td>0.87</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Season</th>
<th>Dec+Jan+Feb</th>
<th>Mar+Apr+May</th>
<th>Jun+Jul+Aug</th>
<th>Sep+Oct+Nov</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pp(x10)/Tp</td>
<td>140 / 304</td>
<td>170 / 446</td>
<td>1480 / 456</td>
<td>870 / 384</td>
</tr>
<tr>
<td>Io (Iot)</td>
<td>0.461</td>
<td>0.381</td>
<td>3.246</td>
<td>2.266</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semesters</th>
<th>December-May</th>
<th>June-November</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pp(x10)/Tp</td>
<td>310 / 750</td>
<td>2350 / 840</td>
</tr>
<tr>
<td>Io (Iosm)</td>
<td>0.413</td>
<td>2.798</td>
</tr>
</tbody>
</table>

### Aridity Value Index (AVI)

<table>
<thead>
<tr>
<th>Month</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pp [P*10]</td>
<td>40</td>
<td>70</td>
<td>30</td>
<td>20</td>
<td>40</td>
<td>110</td>
<td>180</td>
<td>640</td>
<td>660</td>
<td>540</td>
<td>230</td>
<td>100</td>
</tr>
<tr>
<td>Tp [T*10]</td>
<td>101</td>
<td>96</td>
<td>107</td>
<td>129</td>
<td>151</td>
<td>166</td>
<td>162</td>
<td>146</td>
<td>148</td>
<td>137</td>
<td>132</td>
<td>115</td>
</tr>
<tr>
<td>Iom [Pp/Tp]</td>
<td>40</td>
<td>73</td>
<td>28</td>
<td>16</td>
<td>26</td>
<td>66</td>
<td>111</td>
<td>438</td>
<td>446</td>
<td>394</td>
<td>174</td>
<td>87</td>
</tr>
<tr>
<td>Avm [200-Iom]</td>
<td>160</td>
<td>127</td>
<td>172</td>
<td>184</td>
<td>174</td>
<td>134</td>
<td>89</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>26</td>
<td>113</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Season</th>
<th>Dec+Jan+Feb</th>
<th>Mar+Apr+May</th>
<th>Jun+Jul+Aug</th>
<th>Sep+Oct+Nov</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pp / Tp</td>
<td>140 / 304</td>
<td>170 / 446</td>
<td>1480 / 456</td>
<td>870 / 384</td>
</tr>
<tr>
<td>Io [Pp/Tp]</td>
<td>46</td>
<td>38</td>
<td>325</td>
<td>227</td>
</tr>
<tr>
<td>Avs E[Avm&lt;200]</td>
<td>459</td>
<td>492</td>
<td>***</td>
<td>***</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Aridity Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper ultrahyperarid [1]</td>
</tr>
<tr>
<td>Lower hyperarid [2]</td>
</tr>
<tr>
<td>Upper hyperarid [2]</td>
</tr>
<tr>
<td>Strong lower arid [1]</td>
</tr>
<tr>
<td>Weak lower arid [1]</td>
</tr>
<tr>
<td>Strong upper arid [1]</td>
</tr>
<tr>
<td>Weak upper arid [1]</td>
</tr>
<tr>
<td>Strong lower semiarid [1]</td>
</tr>
</tbody>
</table>

There is No Yearly Aridity
ZACATECAS (MEXICO)
Latitude: 22°47’N  Longitude: 102°35’W  Altitude: 2612 m

BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax−Tmin] ..................(Sp):   7.00
CI of Gorezinski (1920) [1.7*Sp/sin(Lat)−20.4] ......:  10.33
CI of Conrad (1946) [1.7*Sp/sin(Lat+10)−14] .........:   7.98
  + Hyperoceanic (−20<CI<20)
CI of Currey (1974) [CI=Sp/(1+Lat/3)] ...............:   0.81
  + Oceanic (0.6<CI<1.1)
Rainfall Index of Lang (1925) [R=P/T] ...............:  20.08
  + Steppic (40>R>0)
Aridity Index of Martonne (1926) [Ia=P/(T+10)] ......:  11.44
  + Arid −steppic− (15>Ia>5)
I of Emberger (1930) [Q=100*P/(Tmmax²−Tmmin²)] ......:  0.00
  + Arid (30>Q>0)
I of Dantin & Revenga (1940) [DR=100*T/P] ..........:  4.98
  + Arid (6>DR>3)
Aridity Index of UNEP [I=P/PE] ......................:   0.39
  + Semiarid (0.5>Im>0.2)
Potencial Erosion I of Fournier (1960) [K=Pi²/P].....:  16.38
  + Very low (K<60)

ZACATECAS (MEXICO)
Latitude: 22°47’N  Longitude: 102°35’W  Altitude: 2612 m

BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
  + Climate ......: A. Warm and temperate warm
  + Region ......: + Thermic type: 4. Mesothermic

Thornthwaite (1948)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>P−E ratio</td>
<td>0.03</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.04</td>
<td>0.07</td>
<td>0.29</td>
<td>0.30</td>
<td>0.25</td>
<td>0.10</td>
<td>0.04</td>
</tr>
<tr>
<td>T−E ratio</td>
<td>4.32</td>
<td>4.81</td>
<td>5.80</td>
<td>6.80</td>
<td>7.47</td>
<td>7.29</td>
<td>6.57</td>
<td>6.66</td>
<td>6.16</td>
<td>5.94</td>
<td>5.18</td>
</tr>
<tr>
<td>Precipitation-effectiveness: 11.70</td>
<td>Temperature-efficiency: 71.55</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Moisture Index [MI=100*(P−PE)/PE] .................:  -60.87
  + D.Semiarid (-66.7<MI<-33.3)
Index of dryness [DI=100*d/PE] ..................:   60.87
  + Strong deficit (33.3<DI)
Index of humidity [HI=100*s/PE] .................:   0.00
  + No surplus (0<HI<10)
Potential Evapotranspiration PE ..................:  679.84
  + First mesothermic (570<PE<712)

ZACATECAS
[J F M A M J J A S O N D]

MEXICO

°C 22°47’N / 102°35’W / 2612 m
[31-31] +13.3  °C  266.0 mm