POSSE (BRAZIL) Altitude: 826 m.
Latitude: 14°6'S  Longitude: 46°22'W
Temperature observation period.: 1976−1990 (15)
Rainfall observation period....: 1976−1990 (15)

<table>
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<tr>
<th>Month</th>
<th>Ti</th>
<th>Mi</th>
<th>mi</th>
<th>M'i</th>
<th>m'i</th>
<th>Pi</th>
<th>EPi</th>
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BIOC climatic Indices and Diagnosis
Thermicity index......................................(It): 683
Compensated thermicity index......................(Itc): 683
Simple continentality index.......................(Ic): 3.0
Diurnality index......................................(Id): 11.1
Annual ombrothermic index.........................(Io): 5.48
Monthly dry ombrothermic index....................(Iod1): 0.23
Bimonthly dry ombrothermic index...............(Iod2): 0.32
Threemonthly dry ombrothermic index............(Iod3): 0.40
Fourmonthly dry ombrothermic index..............(Iod4): 0.52
Annual ombro-evaporation index...................(Ioe): 1.57
Annual positive temperature......................(Tp): 2807
Annual negative temperature.....................(Tn): 0
Dry station temperature...........................(Td): 670
Positive precipitation..............................(Pp): 1539

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Latitudinal Belt....: Eutropical
Continentality......: Hyperoceanic – Low Ultrahyperoceanic
Bioclimatic (Variant): TROPICAL PLUVISEASONAL (SUBXEROPHYTIC)
Bioclimatic Belt....: UPPER INFRATROPICAL UPPER SUBHUMID
**POSSE (BRAZIL)**

Altitude: 826 m. Latitude: 14° 6’S

<table>
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<tr>
<th>Month</th>
<th>T (°C)</th>
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<th>P (mm)</th>
<th>VR</th>
<th>R (mm)</th>
<th>RE (mm)</th>
<th>DF (mm)</th>
<th>SP</th>
<th>DR (mm)</th>
<th>HC (mm)</th>
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<td>0</td>
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<td>30</td>
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<td>115</td>
<td>9</td>
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<td>0</td>
<td>1</td>
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<td>910</td>
<td>272</td>
<td>629</td>
<td>629</td>
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</tr>
</tbody>
</table>

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

**TROPICAL PLUVISEASONAL (SUBXEROPHYTIC)**

**UPPER INFRATROPICAL**

**UPPER SUBHUMID**

---

**POSSE (BRAZIL)**

Altitude: 826 m. Latitude: 14° 6’S

- **T** = 23.4°
- **Ic** = 3.0
- **Tp** = 2807
- **M** = 27.5
- **Tn** = 0
- **M’** = 36.8°
- **Itc** = 683
- **m’** = 7.0
- **Io** = 5.5
- **P** = 1539 mm
- **PE** = 1182 mm

**WATER INDEX CARD POSSE (BRAZIL)**

**Altitude:** 826 m.  **Latitude:** 14° 6’S

<table>
<thead>
<tr>
<th>Month</th>
<th>T (°C)</th>
<th>PE (mm)</th>
<th>P (mm)</th>
<th>VR</th>
<th>R (mm)</th>
<th>RE (mm)</th>
<th>DF (mm)</th>
<th>SP</th>
<th>DR (mm)</th>
<th>HC (mm)</th>
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</thead>
<tbody>
<tr>
<td>Jul.</td>
<td>21.9</td>
<td>78</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>73</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>Aug.</td>
<td>23.4</td>
<td>98</td>
<td>13</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Sep.</td>
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<td>Oct.</td>
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<td>Nov.</td>
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<tr>
<td>Mar.</td>
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<td>910</td>
<td>272</td>
<td>629</td>
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</tbody>
</table>

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

---

**Imbibing:** 28 Sep.  
**Saturation:** 23 Nov.  
**Reserve Use:** 8 Apr.  
**Deficit:** 15 Jun.
POSSE (BRAZIL)
Latitude: 14°6’S   Longitude: 46°22’W   Altitude: 826 m

SUMMARY OF RIVAS−MARTINEZ CLASSIFICATION

Continentality Index
+ Type ................: A. Hyperoceanic
  + Subtype .............: 1. Ultrahyperoceanic
  + Variant .............: b. Low

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

Bioclimatic types
+ Macrobioclimate ..: A. TROPICAL
  + Bioclimate ..........: 4. PLUVISEASONAL
  + Bioclimatic variant :
    + Thermic type.......: 1. INFRATROPICAL
      + Thermic subtype...: a. UPPER
    + Ombrothermic type ...: 6. SUBHUMID
      + Ombrothermic subtype : a. UPPER

Bioclimatic Classification ....................: Trde.Itr.Shu

POSSE (BRAZIL)
Latitude: 14°6’S   Longitude: 46°22’W   Altitude: 826 m

PRECIPITATION PARAMETERS

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<tr>
<th>Seasons</th>
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<th>Dec+Jan+Feb</th>
<th>Mar+Apr+May</th>
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<td>Ttr4−4</td>
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POSSE (BRAZIL)
Latitude: 14°6’S   Longitude: 46°22’W   Altitude: 826 m

TEMPERATURE PARAMETERS

| Average warmest month [T].......................(Tmax): 24.7 |
| Average coldest month [T]......................(Tmin): 21.7 |
| Maximum temp. warmest month [M]................(Tmmax): 30.6 |
| Minimum temp. coldest month [m]................(Tmmin): 16.9 |
| Absolute Max.temp. warmest month [M’]..........(Tamax): 36.8 |
| Absolute Min.temp. coldest month [m’].........(Tamin): 7.0 |
| First warmest contrasted month [M]............(Tcmax): 28.0 (7) |
| First coldest contrasted month [m]............(Tcmin): 16.9 (7) |
| Dry station temperature......................(Td): 670 |
| Positive temperature dryest 3 months.........(Tpd): 670 |
| Positive temperature dryest 2 months.........(Tpd2): 436 |
| Positive temperature dryest 1 month..........(Tpd1): 219 |
| Positive temperature warmest 3 months........(Tps): 726 |
| Positive temperature warmest 2 months........(Tps2): 491 |
| Positive temperature warmest 1 month.........(Tps1): 247 |
| Positive temperature coldest 3 months........(Tpw): 666 |
| Positive temperature coldest 2 months........(Tpw2): 436 |
| Positive temperature coldest 1 month.........(Tpwl): 217 |
### POSSE (BRAZIL)

**Latitude**: 14°6'S  
**Longitude**: 46°22'W  
**Altitude**: 826 m

#### SEASONAL PARAMETERS

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<th>Jul</th>
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<td>4.99</td>
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<th>Jun+Jul+Aug</th>
<th>Sep+Oct+Nov</th>
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<tbody>
<tr>
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<td>3690 / 703</td>
<td>270 / 670</td>
<td>3770 / 726</td>
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<td>5.249</td>
<td>0.403</td>
<td>5.193</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>11350 / 1411</td>
<td>4040 / 1396</td>
</tr>
<tr>
<td>Io (Iosm)</td>
<td>8.044</td>
<td>2.894</td>
</tr>
</tbody>
</table>

#### Aridity Value Index (AVI)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pp [P*10]</td>
<td>2800</td>
<td>2710</td>
<td>2150</td>
<td>2300</td>
<td>1190</td>
<td>200</td>
<td>90</td>
<td>130</td>
<td>300</td>
<td>1240</td>
<td>2230</td>
<td></td>
</tr>
<tr>
<td>Iom [Pp/Tp]</td>
<td>$9 $</td>
<td>$9</td>
<td>919</td>
<td>966</td>
<td>506</td>
<td>87</td>
<td>41</td>
<td>23</td>
<td>56</td>
<td>121</td>
<td>508</td>
<td>949</td>
</tr>
<tr>
<td>Avm [200-1om]</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>113</td>
<td>159</td>
<td>177</td>
<td>144</td>
<td>79</td>
<td>***</td>
<td>***</td>
<td>***</td>
</tr>
</tbody>
</table>

<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>Pp / Tp</td>
<td>7660 / 708</td>
<td>3690 / 703</td>
<td>270 / 670</td>
<td>3770 / 726</td>
</tr>
<tr>
<td>Io (Iot)</td>
<td>1082</td>
<td>525</td>
<td>40</td>
<td>519</td>
</tr>
</tbody>
</table>

| Avs E[Ave<200] | *** | *** | 480 | *** |

**Lower hyperarid [1]**  
**Upper hyperarid [1]**  
**Strong lower arid [1]**  
**Weak lower arid [1]**  
**Weak upper arid [1]**  
**Weak lower semiarid [1]**
POSSE (BRAZIL)
Latitude: 14°6'S   Longitude: 46°22'W   Altitude: 826 m

**BIOCLIMATIC INDICES I**

<table>
<thead>
<tr>
<th>Index</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI of Supan (1884) [Tmax−Tmin]</td>
<td>3.00</td>
</tr>
<tr>
<td>CI of Gorezinski (1920) [1.7*Sp/sin(Lat)−20.4]</td>
<td>0.53</td>
</tr>
<tr>
<td>CI of Conrad (1946) [1.7*Sp/sin(Lat+10)−14]</td>
<td>−1.51</td>
</tr>
<tr>
<td>CI of Currey (1974) [CI=Sp/(1+Lat/3)]</td>
<td>0.53</td>
</tr>
<tr>
<td>Rainfall Index of Lang (1925) [R=P/T]</td>
<td>65.79</td>
</tr>
<tr>
<td>Aridity Index of Martonne (1926) [Ia=P/(T+10)]</td>
<td>46.09</td>
</tr>
<tr>
<td>I of Emberger (1930) [Q=100*P/(Tmmax²−Tmmin²)]</td>
<td>236.50</td>
</tr>
<tr>
<td>I of Dantin &amp; Revenga (1940) [DR=100*T/P]</td>
<td>1.52</td>
</tr>
<tr>
<td>Aridity Index of UNEP [I=P/PE]</td>
<td>1.30</td>
</tr>
<tr>
<td>Potencial Erosion I of Fournier (1960) [K=Pi²/P]</td>
<td>50.94</td>
</tr>
</tbody>
</table>

**BIOCLIMATIC INDICES II**

<table>
<thead>
<tr>
<th>Index</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioclimatic classification of Gaussen &amp; Bagnouls (1957)</td>
<td></td>
</tr>
<tr>
<td>Climate</td>
<td>A. Warm and temperate warm</td>
</tr>
<tr>
<td>Region</td>
<td>3. Termoxeroteric (Mediterranean warm)</td>
</tr>
<tr>
<td>Thermic type</td>
<td>2. Macrotrophic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Thornthwaite (1948)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>P−E ratio</td>
<td></td>
</tr>
<tr>
<td>1.14</td>
<td>0.90</td>
</tr>
<tr>
<td>T−E ratio</td>
<td></td>
</tr>
<tr>
<td>Precipitation-effectiveness: 63.13</td>
<td></td>
</tr>
<tr>
<td>Temperature-efficiency: 126.31</td>
<td></td>
</tr>
</tbody>
</table>

| Moisture Index [MI=100*(P−PE)/PE]          | 30.20  |
| + B1.Humid low-humid (20<MI<40)            |       |
| Index of dryness [DI=100*d/PE]             | 23.04  |
| + Moderate deficit (16.7<DI<33.3)          |       |
| Index of humidity [HI=100*s/PE]            | 53.24  |
| + Strong surplus (20<HI)                    |       |
| Potential Evapotranspiration PE             | 1182.04|
| + Forth mesothermic (997<PE<1440)          |       |

**THERMOMETRIC DIAGRAM**