Phytosociological Research Center
www.globalbioclimatics.org

Worldwide Bioclimatic Classification System
Prof. Dr. Salvador Rivas-Martinez
(Adapted to Synoptical Table 30/08/2017)

PRINCE ALBERT (CANADA) Altitude: 428 m.
Latitude: 53°13’N  Longitude: 105°41’W
Temperature observation period.: 1927−1994 (68)
Rainfall observation period....: 1939−1994 (56)

<table>
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<th>Ti</th>
<th>Mi</th>
<th>mi</th>
<th>M’i</th>
<th>m’i</th>
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<th>Epi</th>
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BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.........................(It):  -401
Compensated thermicity index.............(Itc):  -37
Simple continentality index..............(Ic):  37.8
Diurnality index...........................(Id):  14.4
Annual ombrothermic index...............(Io):  4.21
Monthly estival ombrothermic index.......(Ios1):  3.17
Three monthly estival ombrothermic index.(Ios2):  3.16
Four monthly estival ombrothermic index.(Ios3):  3.67
Annual ombro蒸发指数.....................(Ioe):  3.07
Annual positive temperature..............(Tp):  742
Annual negative temperature.............(Tn):  686
Estival temperature......................(Ts):  481
Positive precipitation....................(Pp):  312

N. of Months
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<th>P:2T−4T</th>
<th>PT:2T</th>
<th>P&lt;T</th>
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Latitudinal Belt....: Low subtemperate
Continentality......: Continental - High Eucontinental
Bioclimate.......: BOREAL CONTINENTAL
Bioclimatic Belt...: LOW THERMOBOREAL LOW SUBHUMID
PRINCE ALBERT (CANADA) 428 m

P = 409  53° 13’N  105° 41’W  68/56 y.
T = 0.5°  Ic = 37.8  Tp = 742  Tn = 686
m = -26.1°  M = -14.4°  Itc = -37  Io = 4.2

M’ = 39.4°
m’ = -56.7°

BOREAL CONTINENTAL
LOW THERMOBOREAL  LOW SUBHUMID

WATER INDEX CARD  PRINCE ALBERT (CANADA)
Altitude: 428 m.  Latitude: 53° 13’N

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<th>(C/mm)</th>
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<th>P</th>
<th>VR</th>
<th>R</th>
<th>RE</th>
<th>DF</th>
<th>SP</th>
<th>DR</th>
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R = Reserve  VR = Variation of the reserve  RE = Real evapotranspiration
DR = Drainage  HC = Humidity coefficient  DF = Deficit  SP = Superavit

PRINCE ALBERT (CANADA) 53°13’N 105°41’W  428 m  68/56 y.

T = 0.5°  Ic = 37.8
m = -26.1°  Tp = 742
M = -14.4°  Tn = 686
M’ = 39.4°  Itc = -37
m’ = -56.7°  Io = 4.2
P = 409 mm
PE = 526 mm

Imbibing  29 Sep.
Saturation  20 Apr.
Reserve Use  4 Apr.
Deficit  9 Jul.
PRINCE ALBERT (CANADA)
Latitude: 53°13’N   Longitude: 105°41’W   Altitude: 428 m

SUMMARY OF RIVAS−MARTINEZ CLASSIFICATION

Continality Index [C3b]
+ Type ................: C. Continental
+ Subtype .............: 3. Eucontinental
+ Variant .............: b. High

Thermic types [B2.C7]
+ Latitudinal zone ....: B. Temperate
+ Latitudinal belt ....: 2. Low subtemperate
+ Thermic type .......: C. Cold
+ Thermic subtype ...: 7. Cold

Thermic types [D3.2b.6b]
+ Macrobioclimate ......: D. BOREAL
+ Bioclimate ...........: 3. CONTINENTAL
+ Bioclimatic variant : +
+ Thermic type........: 2. THERMBOREAL
+ Thermic subtype......: b. LOW
+ Ombrothermic type ...: 6. SUBHUMID
+ Ombrothermic subtype : b. LOW

Bioclimatic Classification ....................: Bosc.Mbo.Shu

PRINCE ALBERT (CANADA)
Latitude: 53°13’N   Longitude: 105°41’W   Altitude: 428 m

PRECIPITATION PARAMETERS

<table>
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<th>Season</th>
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<th>Spring (Tr2-P)</th>
<th>Summer (Tr3-S)</th>
<th>Autumn (Tr4-F)</th>
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<td>83</td>
<td>176</td>
<td>96</td>
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Seasonal rainfall rhythms:  S > F > P > W

PRINCE ALBERT (CANADA)
Latitude: 53°13’N   Longitude: 105°41’W   Altitude: 428 m

TEMPERATURE PARAMETERS

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**OMBROTHERMIC PARAMETERS**

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<td>Tp</td>
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<td>Io (Iosm)</td>
<td>*</td>
<td>*</td>
<td>3.674</td>
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**ARIDITY VALUE INDEX (AVI)**

<table>
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<tr>
<th>Months</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>
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<tbody>
<tr>
<td>Pp [P*10]</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>236</td>
<td>381</td>
<td>714</td>
<td>554</td>
<td>498</td>
<td>528</td>
<td>213</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Tp [T*10]</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>25</td>
<td>100</td>
<td>147</td>
<td>175</td>
<td>158</td>
<td>100</td>
<td>36</td>
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<td>*</td>
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<tr>
<td>Iom [Pp/Tp]</td>
<td>!!</td>
<td>!!</td>
<td>!!</td>
<td>944</td>
<td>381</td>
<td>485</td>
<td>317</td>
<td>314</td>
<td>528</td>
<td>590</td>
<td>!!</td>
<td>!!</td>
</tr>
<tr>
<td>Avm [200-Iom]</td>
<td>***</td>
<td>***</td>
<td>***</td>
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<tr>
<td>Seasons</td>
<td>Winter</td>
<td>Spring</td>
<td>Summer</td>
<td>Autumn</td>
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<tr>
<td>Pp / Tp</td>
<td>* / *</td>
<td>* / *</td>
<td>1766 / 481</td>
<td>* / *</td>
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<tr>
<td>Iot [Pp/Tp]</td>
<td>**</td>
<td>**</td>
<td>367</td>
<td>**</td>
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<tr>
<td>Avs E[Avm&lt;200]</td>
<td>***</td>
<td>***</td>
<td>***</td>
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There is No Yearly Aridity
PRINCE ALBERT (CANADA)
Latitude: 53°13’N   Longitude: 105°41’W   Altitude: 428 m

BIOMICLIMATIC INDICES I

CI of Supan (1884) \[T_{\text{max}}-T_{\text{min}}\] \(\text{(Sp)}\) .................. 37.77
CI of Gorezinski (1920) \(1.7*\text{Sp}/\sin(\text{Lat})-20.4\) ........... 59.77
CI of Conrad (1946) \(1.7*\text{Sp}/\sin(\text{Lat}+10)-14\) ............ 57.93
   + Subcontinental (40<CI<60)
CI of Currey (1974) \(\text{CI}=\text{Sp}/(1+\text{Lat}/3)\) ............... 2.02
   + Continental (1.7<CI<2.3)
Rainfall Index of Lang (1925) \[R=\text{P}/\text{T}\] ............... 882.95
   + Humid (R>160)
Aridity Index of Martonne (1926) \[\text{Ia}=\text{P}/(\text{T}+10)\] ...... 39.10
   + Humid (60<Ia>30)
I of Emberger (1930) \[Q=100*\text{P}/(\text{T}_{\text{max}}²-\text{T}_{\text{min}}²)\] ...... -484.61
   +
I of Dantin & Revenga (1940) \[\text{DR}=100*\text{T}/\text{P}\] .......... 0.11
   + Humid (2>DR>0)
Aridity Index of UNEP \[\text{I}=\text{P}/\text{PE}\] .................. 0.78
   + Humid (I>0.65)
Potencial Erosion I of Fournier (1960) \[\text{K}=\text{P}/\text{I}²\] ...... 12.46
   + Very low (K<60)

PRINCE ALBERT (CANADA)
Latitude: 53°13’N   Longitude: 105°41’W   Altitude: 428 m

BIOMICLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
   + Climate ......: B. Cold and temperate cold
   + Region ......: 11. Psicroaxeric (Axeric cold)
   + Thermic type: 7. Hipermicrothermic

Thornthwaite (1948)

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<tbody>
<tr>
<td>P-E ratio</td>
<td>0.14</td>
<td>0.10</td>
<td>0.17</td>
<td>0.15</td>
<td>0.19</td>
<td>0.33</td>
<td>0.23</td>
<td>0.21</td>
<td>0.27</td>
<td>0.13</td>
<td>0.18</td>
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<tr>
<td>T-E ratio</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>1.13</td>
<td>4.50</td>
<td>6.63</td>
<td>7.88</td>
<td>7.13</td>
<td>4.50</td>
<td>1.62</td>
<td>0.00</td>
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<tr>
<td>Precipitation-effectiveness: 22.56</td>
<td>Temperature-efficiency: 33.38</td>
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</table>
| Moisture Index \[\text{MI}=100*(\text{P}-\text{PE})/\text{PE}\] ............... -22.21
   + C1.Subhumid dry (-33.3<MI<0)
| Index of dryness \[\text{DI}=100*\text{d}/\text{PE}\] .................. 22.49
   + Moderate deficit (16.7<DI<33.3)
| Index of humidity \[\text{HI}=100*\text{s}/\text{PE}\] ................. 0.29
   + No surplus (0<HI<10)
| Potential Evapotranspiration PE .................. 525.94
   + Second microthermic (427<PE<570) |
CANADA
53°13'N / 105°41'W / 428 m
PRINCE ALBERT
Period T−P [68−56]
Thornthwaite
T−E Ratio
P−E Ratio

Mediterranean
Ombrothermic
Index [PE/P]
Index [P/T]

J F M A M J J A S O N D
0.0 0 2.5 5 5.0 10 7.5 15 10.0 20 12.5 25 15.0 30

J F M A M J J A S O N D
0.0 0 2.5 5 5.0 10 7.5 15 10.0 20 12.5 25 15.0 30

J F M A M J J A S O N D
0.0 0 2.5 5 5.0 10 7.5 15 10.0 20 12.5 25 15.0 30