PORT HEIDEN (USA ALASKA) Altitude: 29 m.
Latitude: 56°58’N Longitude: 158°39’W
Temperature observation period.: 1988-1994 (7)
Rainfall observation period.......: 1988-1994 (7)

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**BIOClimatic indices and diagnosis**

- Thermicity index.........................(It): -77
- Compensated thermicity index............(Itc): -77
- Simple continentality index..............(Ic): 16.4
- Diurnality index..........................(Id): 7.8
- Annual ombrothermic index...............(Io): 6.70
- Monthly estival ombrothermic index.......(Ios1): 6.72
- Bimonthly estival ombrothermic index.....(Ios2): 5.46
- Threemonthly estival ombrothermic index..(Ios3): 6.05
- Fourmonthly estival ombrothermic index... (Ios4): 5.55
- Annual ombro-evaporation index.........(Ioe): 2.57
- Annual positive temperature...............(Tp): 467
- Annual negative temperature.............(Tn): 192
- Estival temperature......................(Ts): 306
- Positive precipitation...................(Pp): 313

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Latitudinal Belt....: Low subtemperate
Continentality.....: Oceanic - Low Euoceanic
Bioclimatic........: BOREAL OCEANIC
Bioclimatic Belt...: LOW OROBOREAL LOW HUMID
PORT HEIDEN (USA ALASKA) 29 m

P= 435 56° 58’N 158° 39’W 7/7 y.

T= 2.3° Ic= 16.4 Tp= 467 Tn= 192
m= -8.3° M= -1.7° Itc= -77 Io= 6.7

M’= 27.8°
m’= -28.3°

BOREAL OCEANIC
LOW OROBOREAL LOW HUMID

WATER INDEX CARD PORT HEIDEN (USA ALASKA)
Altitude: 29 m. Latitude: 56° 58’N

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

PORT HEIDEN (USA ALASKA)
56°58’N 158°39’W 29 m 7/7 y.

T= 2.3° Ic= 16.4  BOREAL OCEANIC
m= -8.3° Tp= 467  LOW OROBOREAL
M= -1.7° Tn= 192  LOW HUMID
M’= 27.8° Itc= -77
m’= -28.3° Io= 6.7
P= 435 mm
PE= 448 mm

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<td>Imbibing</td>
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<td>Deficit</td>
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PORT HEIDEN (USA ALASKA)
Latitude: 56°58’N Longitude: 158°39’W Altitude: 29 m

SUMMARY OF RIVAS–MARTINEZ CLASSIFICATION

Continental Index: [B2b]
+ Type ................: B. Oceanic
+ Subtype .............: 2. Euoceanic
+ Variant .............: b. Low

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

Bioclimatic types: [D5.5b.7b]
+ Macrobioclimate ......: D. BOREAL
+ Bioclimate ..........: 5. OCEANIC
+ Bioclimatic variant.: 5. OROBOREAL
+ Thermic type.........: 7. HUMID
+ Thermic subtype......: b. LOW
+ Ombrothermic type ...: 7. HUMID
+ Ombrothermic subtype : b. LOW

Bioclimatic Classification: Bohc.Cbo.Hum

PORT HEIDEN (USA ALASKA)
Latitude: 56°58’N Longitude: 158°39’W Altitude: 29 m

PRECIPITATION PARAMETERS

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Seasonal rainfall rhythms: F > S > W > P

PORT HEIDEN (USA ALASKA)
Latitude: 56°58’N Longitude: 158°39’W Altitude: 29 m

TEMPERATURE PARAMETERS

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<tbody>
<tr>
<td>Pp(x10)/Tp</td>
<td><em>/</em></td>
<td><em>/</em></td>
</tr>
<tr>
<td>Io (Iosm)</td>
<td>*</td>
<td>*</td>
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</tbody>
</table>

### Aridity Value Index (AVI)

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Pp [P*10]</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>206</td>
<td>310</td>
<td>434</td>
<td>765</td>
<td>650</td>
<td>762</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tp [T*10]</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>45</td>
<td>83</td>
<td>106</td>
<td>114</td>
<td>86</td>
<td>33</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Avm [200-Iom] | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** |

<table>
<thead>
<tr>
<th>Seasons</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
<th>Autumn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pp / Tp</td>
<td><em>/</em></td>
<td><em>/</em></td>
<td>1509 / 303</td>
<td><em>/</em></td>
</tr>
<tr>
<td>Io [Pp/Tp]</td>
<td>**</td>
<td>**</td>
<td>498</td>
<td>**</td>
</tr>
</tbody>
</table>

| Avs E[Avm<200] | *** | *** | *** | *** |

There is No Yearly Aridity

AVI: \(10 \times \frac{PP}{TP-I0} = 3127/467=6.70\)
PORT HEIDEN (USA ALASKA)
Latitude: 56°58’N   Longitude: 158°39’W   Altitude: 29 m

**BIOClimatic Indices I**

<table>
<thead>
<tr>
<th>Index</th>
<th>Formula</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI of Supan (1884)</td>
<td>[Tmax-Tmin]</td>
<td>16.39</td>
</tr>
<tr>
<td>CI of Gorezinski (1920)</td>
<td>[1.7*Sp/sin(Lat)-20.4]</td>
<td>12.84</td>
</tr>
<tr>
<td>CI of Conrad (1946)</td>
<td>[1.7*Sp/sin(Lat+10)-14]</td>
<td>16.28</td>
</tr>
<tr>
<td>CI of Currey (1974)</td>
<td>[CI=Sp/(1+Lat/3)]</td>
<td>0.82</td>
</tr>
</tbody>
</table>

- Hyperoceanic (-20<CI<20)
- Oceanic (0.6<CI<1.1)

Rainfall Index of Lang (1925) [R=P/T]..............: 189.51
+ Humid (R>160)

Aridity Index of Martonne (1926) [Ia=P/(T+10)] .......: 35.35
+ Humid (60>Ia>30)

I of Emberger (1930) [Q=100*P/(Tmmax²-Tmmin²)] .......: 312.38
+ Humid (Q>90)

I of Dantin & Revenga (1940) [DR=100*T/P] ...........: 0.53
+ Humid (2>DR>0)

Aridity Index of UNEP [I=P/PE] .......................: 0.97
+ Humid (I>0.65)

Potential Erosion I of Fournier (1960) [K=Pi²/P] .......: 13.47
+ Very low (K<60)

**PORT HEIDEN (USA ALASKA)**
Latitude: 56°58’N   Longitude: 158°39’W   Altitude: 29 m

**BIOClimatic 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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</thead>
<tbody>
<tr>
<td>P-E ratio</td>
<td>0.14</td>
<td>0.10</td>
<td>0.11</td>
<td>0.07</td>
<td>0.12</td>
<td>0.16</td>
<td>0.22</td>
<td>0.40</td>
<td>0.36</td>
<td>0.53</td>
<td>0.27</td>
</tr>
<tr>
<td>T-E ratio</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>2.00</td>
<td>3.75</td>
<td>4.75</td>
<td>5.13</td>
<td>3.88</td>
<td>1.50</td>
</tr>
<tr>
<td>Precipitation-effectiveness: 27.09</td>
<td>Temperature-efficiency: 21.01</td>
<td></td>
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</tbody>
</table>

Moisture Index [MI=100*(P−PE)/PE] .................: -3.00
+ CI.Subhumid dry (-33.3<MI<0)

Index of dryness [DI=100*d/PE] ......................: 18.50
+ Moderate deficit (16.7<DI<33.3)

Index of humidity [HI=100*s/PE] .....................: 15.51
+ Moderate surplus (10<HI<20)

Potential Evapotranspiration PE ......................: 448.04
+ Second microthermic (427<PE<570)

**USA ALASKA**

<table>
<thead>
<tr>
<th>°C</th>
<th>56°58′N</th>
<th>158°39′W</th>
<th>29 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-7</td>
<td>+2.3 °C</td>
<td>434.6 mm</td>
<td></td>
</tr>
</tbody>
</table>

-400 -300 -200 -100 0 100 200 300 400
0 10 20 30 40 50 60 70 80 90 100

-10 -0 10 20 30 40 50 60 70 80 90

-10 -5 0 5 10 15 20 25 30 35 40

-10 -5 0 5 10 15 20 25 30 35 40