Phytosociological Research Center
www.globalbioclimatics.org
Worldwide Bioclimatic Classification System
Prof. Dr. Salvador Rivas-Martinez
(Adapted to Synoptical Table 30/08/2017)

TOME (RUS LATVIJSKAYA) Altitude: 34 m.
Latitude: 56°43’N Longitude: 24°37’E
Temperature observation period.: 1932−1942 (11)
Rainfall observation period.: 1933−1942 (10)

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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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**BIOCLIMATIC INDICES AND DIAGNOSIS**

- Thermicity index..............................(It): -78
- Compensated thermicity index.................(Itc): -25
- Simple continentality index...................(Ic): 23.5
- Diurnality index.............................(Id): 13.1
- Annual ombrothermic index....................(Io): 6.43
- Bimonthly estival ombrothermic index........(Ios1): 4.90
- Threemonthly estival ombrothermic index.....(Ios2): 5.29
- Fourmonthly estival ombrothermic index......(Ios4): 5.11
- Annual ombro-evaporation index..............(Ioe): 1.59
- Annual positive temperature...................(Tp): 809
- Annual negative temperature..................(Tn): 182
- Estival temperature.........................(Ts): 478
- Positive precipitation.......................(Pp): 520

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<th>P:2T-4T</th>
<th>PT-2T</th>
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Latitudinal Belt....: Low subtemperate
Continentality......: Continental - Low Subcontinental
Bioclimate........: TEMPERATE CONTINENTAL
Bioclimatic Belt...: UPPER SUPRATEMPERATE (HEMIBOREAL) LOW HUMID
TOME (RUS LATVIJSKAYA) 34 m

P = 696 m
T = 5.2°
m = -9.6°

T= 56° 43’N
Tn= 182°

m= -9.6°
M= -3.4°

M'= 30.0°
m'= -37.0°

TEMPERATE CONTINENTAL
UPPER SUPRATEMPERATE (HEMIBOREAL) LOW HUMID

WATER INDEX CARD TOME (RUS LATVIJSKAYA)
Altitude: 34 m. Latitude: 56° 43’N

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<th>(C/mm)</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>
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<td>45</td>
<td>167</td>
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R = Reserve  VR = Variation of the reserve  RE = Real evapotranspiration
DR = Drainage  HC = Humidity coefficient  DF = Deficit  SP = Superavit

TOME (RUS LATVIJSKAYA)

56°43’N  24°37’E  34 m  11/10 y.

T= 5.2°
m= -9.6°

T= 23.5°

m= -3.4°
m= -37.0°

P= 696 mm

PE= 574 mm

Imbibing  30 Aug.
Saturation  10 Dec.
Reserve Use  7 Apr.
Deficit  16 Jul.
TOME (RUS LATVIJSKAYA)

Latitude: 56°43’N   Longitude: 24°37’E   Altitude: 34 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continentality Index [C2a]
+ Type ................: C. Continental
+ Subtype .............: 2. Subcontinental
+ Variant .............: a. Low

Thermic types [B2.C6]
+ Latitudinal zone ....: B. Temperate
+ Latitudinal belt ....: 2. Low subtemperate
+ Thermic type .......: C. Cold
+ Thermic subtype .....: 6. Cool

Bioclimatic types [C2.4a.7b]
+ Macrobioclimate ......: C. TEMPERATE
+ Bioclimate ...........: 2. CONTINENTAL
+ Bioclimatic variant :.
+ Thermic type..........: 4. SUPRATEMPERATE (HEMIBOREAL)
+ Thermic subtype......: a. UPPER
+ Ombrothermic type ...: 7. HUMID
+ Ombrothermic subtype : b. LOW

Bioclimatic Classification ....................: Teoc.Ste.Hum

TOME (RUS LATVIJSKAYA)

Latitude: 56°43’N   Longitude: 24°37’E   Altitude: 34 m

PRECIPITATION PARAMETERS

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<th>Spring Tr2-P</th>
<th>Summer Tr3-S</th>
<th>Autumn Tr4-F</th>
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<td>141</td>
<td>129</td>
<td>247</td>
<td>179</td>
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Seasonal rainfall rhythms:  S > F > W > P

TOME (RUS LATVIJSKAYA)

Latitude: 56°43’N   Longitude: 24°37’E   Altitude: 34 m

TEMPERATURE PARAMETERS

Average warmest month [T] ......................(Tmax): 17.3
Average coldest month [T] ......................(Tmin): -6.2
Minimum temp. warmest month [M]..............(Tmmax): 22.7
Minimum temp. coldest month [m]..............(Tmnin): -9.6
Absolute Max.temp. warmest month [M’].......(Tamax): 30.0
Absolute Min.temp. coldest month [m’].......(Tamin): -37.0
First warmest contrasted month [M] ..........(Tcmax): 17.2 (5)
First coldest contrasted month [m] ..........(Tcmin): 4.1 (5)
Estival temperature .........................(Ts): 478
Positive temperature dryest 3 months.......(Tpd): 44
Positive temperature dryest 2 months.......(Tpd2): 44
Positive temperature dryest 1 month........(Tpd1): 0
Positive temperature warmest 3 months......(Tps): 478
Positive temperature warmest 2 months......(Tps2): 329
Positive temperature warmest 1 month.......(Tps1): 173
Positive temperature coldest 3 months......(Tpw): 0
Positive temperature coldest 2 months......(Tpw2): 0
Positive temperature coldest 1 month.......(Tpwl): 0
### SEASONAL PARAMETERS

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<table>
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<th>Autumn</th>
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<tbody>
<tr>
<td>Pp / Tp</td>
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<td>1790 / 174</td>
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<tr>
<td>Avs E[Avm&lt;200]</td>
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**There is No Yearly Aridity**
**BIOCLIMATIC INDICES I**

Latitude: 56°43’N   Longitude: 24°37’E   Altitude: 34 m

- CI of Supan (1884) \[T_{\text{max}}-T_{\text{min}}\] \[\text{(Sp)}\]: 23.50
- CI of Gorezinski (1920) \[1.7*\text{Sp}/\sin(\text{Lat})-20.4\]: 27.39
- CI of Conrad (1946) \[1.7*\text{Sp}/\sin(\text{Lat}+10)-14\]: 29.49
  - Oceanic \(20<\text{CI}<40\)
  - Subcontinental \(1.1<\text{CI}<1.7\)
- Rainfall Index of Lang (1925) \[R=\text{P}/\text{T}\]: 133.21
  - Temperate humid \(160>R>100\)
- Aridity Index of Martonne (1926) \[I_a=\text{P}/(\text{T}+10)\]: 45.71
  - Humid \(60>I_a>30\)
- I of Emberger (1930) \[Q=100*\text{P}/(\text{T}_{\text{max}}^2-\text{T}_{\text{min}}^2)\]: 164.49
  - Humid \(Q>90\)
- I of Dantin & Revenga (1940) \[\text{DR}=100*\text{P}/\text{T}\]: 0.75
  - Humid \(2>\text{DR}>0\)
- Aridity Index of UNEP \[I=\text{P}/\text{PE}\]: 1.21
  - Humid \(I>0.65\)
- Potential Erosion I of Fournier (1960) \[K=\text{Pi}^2/\text{P}\]: 11.90
  - Very low \(K<60\)

**BIOCLIMATIC INDICES II**

Bioclimatic classification of Gaussen & Bagnouls (1957)
- Climate ....: B. Cold and temperate cold
- Region ......: 11. Psicroaxeric (Axeric cold)
- Thermic type: 6. Microthermic

**Thornthwaite (1948)**

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<tbody>
<tr>
<td>P-E ratio</td>
<td>0.40</td>
<td>0.34</td>
<td>0.29</td>
<td>0.24</td>
<td>0.27</td>
<td>0.34</td>
<td>0.40</td>
<td>0.38</td>
<td>0.33</td>
<td>0.37</td>
<td>0.40</td>
<td>0.45</td>
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<tr>
<td>T-E ratio</td>
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<td>0.00</td>
<td>0.00</td>
<td>1.98</td>
<td>5.09</td>
<td>6.70</td>
<td>7.78</td>
<td>7.02</td>
<td>4.95</td>
<td>2.52</td>
<td>0.36</td>
<td>0.00</td>
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</tbody>
</table>

- Moisture Index \[\text{MI}=100*\text{(P-PE)}/\text{PE}\]: 21.18
  - Humid low-humid \(20<\text{MI}<40\)
- Index of dryness \[\text{DI}=100*\text{d}/\text{PE}\]: 7.85
  - No deficit \(0<\text{DI}<16.7\)
- Index of humidity \[\text{HI}=100*\text{s}/\text{PE}\]: 29.02
  - Strong surplus \(20<\text{HI}\)
- Potential Evapotranspiration \[\text{PE}\]: 574.36
  - First mesothermic \(570<\text{PE}<712\)

**RUS LATVIJSKAYA**

<table>
<thead>
<tr>
<th>°C</th>
<th>56°43’N / 24°37’E / 34 m</th>
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<tbody>
<tr>
<td>22.7</td>
<td>TOME</td>
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<td>-9.6</td>
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**TOME** (RUS LATVIJSKAYA)

Latitude: 56°43’N   Longitude: 24°37’E   Altitude: 34 m