

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 14/02/2020)

GORE BAY (CANADA)

Altitude: 193 m.

Latitude: 45°53'N Longitude: 82°34'W

Temperature observation period.: 1963-1994 (32)

Rainfall observation period....: 1972-1994 (23)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	Epi
Jan.	-9.72	-4.44	-15.00	9.44	-37.22	62.2	0.00
Feb.	-10.28	-4.44	-16.11	10.56	-38.89	50.3	0.00
Mar.	-4.72	0.56	-10.00	22.22	-30.56	58.9	0.00
Apr.	1.39	8.33	-5.56	27.22	-23.33	55.6	8.69
May.	9.72	16.11	3.33	30.56	-6.67	53.9	65.68
Jun.	15.28	21.67	8.89	33.89	-1.67	57.2	102.73
Jul.	19.17	25.56	12.78	37.78	1.11	48.3	130.04
Aug.	17.78	23.89	11.67	35.56	1.11	51.6	111.71
Sep.	14.17	19.44	8.89	34.44	-3.89	71.4	76.38
Oct.	7.50	12.22	2.78	26.67	-9.44	75.7	37.20
Nov.	0.83	4.44	-2.78	20.00	-26.11	78.5	3.68
Dec.	-5.84	-1.67	-10.00	12.78	-36.11	75.4	0.00
Year	4.61	10.14	-0.93	25.09	-17.64	739	536.11

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	-159
Compensated thermicity index.....(Itc):	-3
Simple continentality index.....(Ic):	29.5
Diurnality index.....(Id):	13.9
Annual ombrothermic index.....(Io):	5.73
Monthly estival ombrothermic index.....(Ios1):	2.52
Bimonthly estival ombrothermic index.....(Ios2):	2.70
Threemonthly estival ombrothermic index.....(Ios3):	3.01
Fourmonthly estival ombrothermic index.....(Ios4):	3.41
Annual ombro-evaporation index.....(Ioe):	1.38
Annual positive temperature.....(Tp):	858
Annual negative temperature.....(Tn):	306
Estival temperature.....(Ts):	522
Positive precipitation.....(Pp):	492

N. of Months	P>4T	P:2T-4T	PT-2T	P<T	T<0
	5	3	0	0	4

Latitudinal Belt...: High Eutemperate

Continentality.....: Continental - Low Eucontinental

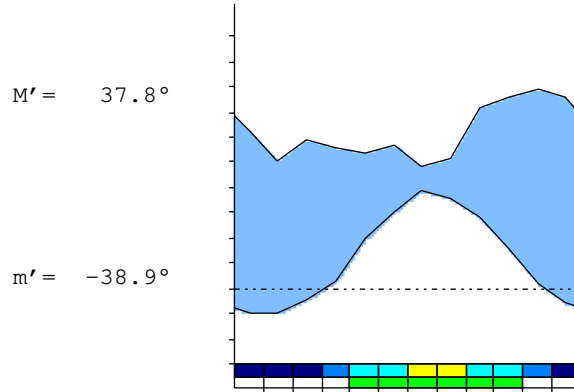
Bioclimate(Variant): TEMPERATE CONTINENTAL (SUBMEDITERRANEAN, HEMIBOREAL)

Bioclimatic Belt...: UPPER SUPRATEMPERATE (HEMIBOREAL) UPPER SUBHUMID

GORE BAY (CANADA)

193 m

P= 739 45° 53'N 82° 34'W 32/23 y.
 T= 4.6 ° Ic= 29.5 Tp= 858 Tn= 306
 m= -16.1 ° M= -4.4 ° Itc= -3 Io= 5.7



TEMPERATE CONTINENTAL (SUBMEDITERRANEAN)
 UPPER SUPRATEMPERATE (HEMIBOREAL) UPPER SUBHUMID

WATER INDEX CARD GORE BAY (CANADA)
 Altitude: 193 m. Latitude: 45° 53'N

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	-9.7	0	62	0	100	0	0	62	52	*
Feb.	-10.3	0	50	0	100	0	0	50	51	*
Mar.	-4.7	0	59	0	100	0	0	59	55	*
Apr.	1.4	9	56	0	100	9	0	47	51	5.3
May.	9.7	66	54	-12	88	66	0	0	25	-0.1
Jun.	15.3	103	57	-46	43	103	0	0	13	-0.4
Jul.	19.2	130	48	-43	0	91	39	0	6	-0.6
Aug.	17.8	112	52	0	0	52	60	0	3	-0.5
Sep.	14.2	76	71	0	0	71	5	0	2	0.0
Oct.	7.5	37	76	38	38	37	0	0	1	1.0
Nov.	0.8	4	79	62	100	4	0	13	7	20.3
Dec.	-5.8	0	75	0	100	0	0	75	41	*
Year	4.6	536	739	*	*	432	104	307	307	*

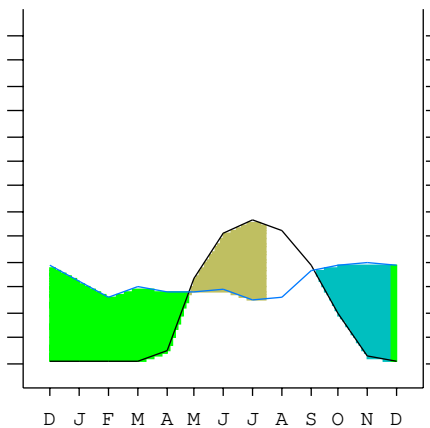
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

GORE BAY (CANADA)

45°53'N 82°34'W 193 m 32/23 y.

T= 4.6 Ic= 29.5 TEMPERATE CONTINENTAL (SUBMEDITERRANEAN)
 m= -16.1 Tp= 858 UPPER SUPRATEMPERATE (HEMIBOREAL)
 M= -4.4 Tn= 306 UPPER SUBHUMID
 M' = 37.8 Itc= -3
 m' = -38.9 Io= 5.7
 P= 739 mm ———
 PE= 536 mm ———

Imbibing	4 Sep.
Saturation	25 Nov.
Reserve Use	24 Apr.
Deficit	16 Jul.



GORE BAY (CANADA)

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SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continentality Index [C3a]
 + Type: C. Continental
 + Subtype: 3. Eucontinental
 + Variant: a. Low
 Thermic types [B1.C6]
 + Latitudinal zone: B. Temperate
 + Latitudinal belt: 1. High Eutemperate
 + Thermic type: C. Cold
 + Thermic subtype: 6. Cool
 Bioclimatic types [C2b.4a.6a]
 + Macrobioclimate: C. TEMPERATE
 + Bioclimate: 2. CONTINENTAL
 + Bioclimatic variant .: SUBMEDITERRANEAN, HEMIBOREAL
 + Thermic type.....: 4. SUPRATEMPERATE (HEMIBOREAL)
 + Thermic subtype.....: a. UPPER
 + Ombrothermic type ...: 6. SUBHUMID
 + Ombrothermic subtype : a. UPPER
 Bioclimatic ClassificationTeco (Sbm) .Ste. Shu. Euc

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 358
 Coldest semester of the year.....(Psw): 381
 Warmest four months period of the year.....(Pcm1): 229
 Following warmest four months period.....(Pcm2): 292
 Positive precipitation dryest 3 months.....(Ppd): 157
 Positive precipitation dryest 2 months.....(Ppd2): 100
 Positive precipitation dryest 1 month.....(Ppd1): 48
 Positive precipitation warmest 3 months.....(Pps): 157
 Positive precipitation warmest 2 months.....(Pps2): 100
 Positive precipitation warmest 1 month.....(Pps1): 48
 Positive precipitation coldest 3 months.....(Ppw): 0
 Positive precipitation coldest 2 months.....(Ppw2): 0
 Positive precipitation coldest 1 month.....(Ppw1): 0

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	187	168	157	225

Seasonal rainfall rhythms: F > W > P > S

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 19.2
 Average coldest month [T].....(Tmin): -10.3
 Maximum temp. warmest month [M].....(Tmax): 25.6
 Minimum temp. coldest month [m].....(Tmin): -16.1
 Absolute Max.temp. warmest month [M'].....(Tamax): 37.8
 Absolute Min.temp. coldest month [m'].....(Tamin): -38.9
 First warmest contrasted month [M].....(Tcmax): 8.3 (4)
 First coldest contrasted month [m].....(Tcmin): -5.6 (4)
 Estival temperature.....(Ts): 522
 Positive temperature dryest 3 months.....(Tpd): 522
 Positive temperature dryest 2 months.....(Tpd2): 370
 Positive temperature dryest 1 month.....(Tpd1): 192
 Positive temperature warmest 3 months.....(Tps): 522
 Positive temperature warmest 2 months.....(Tps2): 370
 Positive temperature warmest 1 month.....(Tps1): 192
 Positive temperature coldest 3 months.....(Tpwc): 0
 Positive temperature coldest 2 months.....(Tpwc2): 0
 Positive temperature coldest 1 month.....(Tpwc1): 0

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SEASONAL PARAMETERS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Warmest semester... (Sms)					o	o	o	o	o	o		
Dryest semester... (Smd)		o	o	o	o	o	o					
Warmest 4 months... (Cm1)						o	o	o	o			
Dryest 4 months... (Cmd)					o	o	o	o				
Vegetation Activity (Pav)					o	o	o	o	o	o		
Ultragelid... [M' <=0] (Pf)												
Hypergelid... [M <=0] (Pf)	o	o										o
Gelid... [T <=0] (Pf)	o	o	o									o
Subgelid... [m <=0] (Pf)	o	o	o	o							o	o
Pregelid... [m' <=0] (Pf)	o	o	o	o	o	o			o	o	o	o
Agelid... [m' > 0] (Pf)							o	o				
HiperAgelid... [all >0] (Pf)							o	o				

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OMBROTHERMIC PARAMETERS

Annual aridity index. [PE/P]..... (Iar): 0.73
 Mediterranean index of July. [PE/P]..... (Im1): 2.69
 Mediterranean index of July & August..... (Im2): 2.42
 Mediterranean index of June, July & August.... (Im3): 2.19

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp (x10)	*	*	*	*	556	539	572	483	516	714	757	785
Tp	*	*	*	*	14	97	153	192	178	142	75	8
Io (Iom)	*	*	*	*	40.0	5.55	3.74	2.52	2.90	5.04	10.1	94.6
Seasons	Winter			Spring			Summer			Autumn		
Pp (x10) / Tp	* / *			* / *			1571 / 522			2256 / 225		
Io (Iot)	*			*			3.008			10.03		
Semesters	December-May						June-November					
Pp (x10) / Tp	* / *						3827 / 747					
Io (Iosm)	*						5.121					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 4922/858=5.73 There is No Yearly Aridity

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	*	*	*	*	556	539	572	483	516	714	757	785
Tp [T*10]	*	*	*	*	14	97	153	192	178	142	75	8
Iom [Pp/Tp]	!!	!!	!!	!!	\$\$	555	374	252	290	504	\$\$	\$\$
Avm [200-Iom]	***	***	***	***	***	***	***	***	***	***	***	***
Seasons	Winter			Spring			Summer			Autumn		
Pp / Tp	* / *			* / *			1571 / 522			2256 / 225		
Iot [Pp/Tp]	**			**			301			1003		
Avs E [Avm<200]	***			***			***			***		

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 29.45
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: 49.34
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 46.47
 + Subcontinental (40<CI<60)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 1.81
 + Continental (1.7<CI<2.3)
 Rainfall Index of Lang (1925) [R=P/T]: 160.42
 + Humid (R>160)
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 50.59
 + Humid (60>Ia>30)
 I of Emberger (1930) [Q=100*P/(Tmmax²-Tmmin²)]: 187.67
 + Humid (Q>90)
 I of Dantin & Revenga (1940) [DR=100*T/P]: 0.62
 + Humid (2>DR>0)
 Aridity Index of UNEP [I=P/PE]: 1.38
 + Humid (I>0.65)
 Potencial Erosion I of Fournier (1960) [K=Pi²/P].....: 8.34
 + Very low (K<60)

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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)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.54	0.43	0.51	0.40	0.28	0.25	0.19	0.21	0.34	0.45	0.61	0.67
T-E ratio	0.00	0.00	0.00	0.63	4.37	6.88	8.63	8.00	6.38	3.38	0.37	0.00
Precipitation-effectiveness: 48.80						Temperature-efficiency: 38.63						
Moisture Index [MI=100*(P-PE)/PE]: 37.85 + B1.Humid low-humid (20<MI<40)												
Index of dryness [DI=100*d/PE]: 19.42 + Moderate deficit (16.7<DI<33.3)												
Index of humidity [HI=100*s/PE]: 57.26 + Strong surplus (20<HI)												
Potential Evapotranspiration PE: 536.11 + Second microthermic (427<PE<570)												

