

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 14/02/2020)

ROMA (AUSTRALIA)

Altitude: 299 m.

Latitude: 26°34'S Longitude: 148°47'E

Temperature observation period.: 1908-1990 (83)

Rainfall observation period....: 1870-1990 (121)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	27.29	34.92	19.98	0.00	0.00	82.0	167.35
Feb.	26.64	33.85	19.55	0.00	0.00	74.6	139.35
Mar.	24.52	29.23	19.48	0.00	0.00	65.0	119.05
Apr.	20.45	25.98	14.93	0.00	0.00	33.2	72.22
May.	16.07	21.48	10.43	0.00	0.00	36.8	40.58
Jun.	12.73	17.63	7.88	0.00	0.00	36.0	22.42
Jul.	11.90	16.45	7.35	0.00	0.00	37.6	20.36
Aug.	13.70	19.36	7.99	0.00	0.00	26.8	29.51
Sep.	17.41	22.23	12.48	0.00	0.00	32.3	52.29
Oct.	21.56	27.73	15.38	0.00	0.00	50.2	94.10
Nov.	24.66	31.99	17.36	0.00	0.00	56.5	128.63
Dec.	26.74	33.30	20.30	0.00	0.00	67.1	163.53
Year	20.31	26.18	14.43	0.00	0.00	598	1049.4

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	441
Compensated thermicity index.....(Itc):	441
Simple continentality index.....(Ic):	15.4
Diurnality index.....(Id):	14.9
Annual ombrothermic index.....(Io):	2.45
Monthly estival ombrothermic index.....(Ios1):	2.51
Bimonthly estival ombrothermic index.....(Ios2):	2.90
Threemonthly estival ombrothermic index.....(Ios3):	2.77
Fourmonthly estival ombrothermic index.....(Ios4):	2.66
Annual ombro-evaporation index.....(Ioe):	0.57
Annual positive temperature.....(Tp):	2437
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	807
Positive precipitation.....(Pp):	598

N. of Months	P>4T	P:2T-4T	PT-2T	P<T	T<0
	0	9	3	0	0

Latitudinal Belt...: Subtropical

Continentality.....: Oceanic - Low Euoceanic

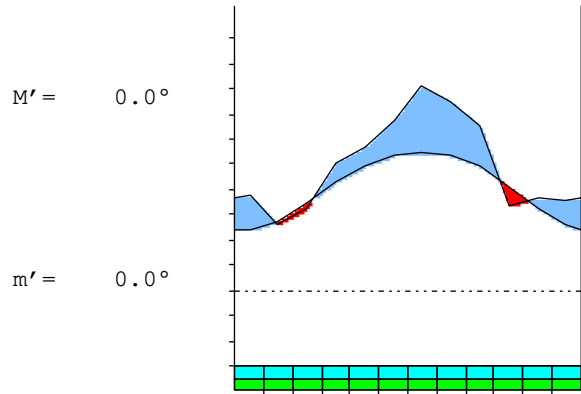
Bioclimate(Variant): TEMPERATE XERIC (SUBMEDITERRANEAN)

Bioclimatic Belt...: INFRATEMPERATE LOW DRY

ROMA (AUSTRALIA)

299 m

P= 598 26° 34'S 148° 47'E 83/121 y.
 T= 20.3 ° Ic= 15.4 Tp= 2437 Tn= 0
 m= 7.3 ° M= 16.5 ° Itc= 441 Io= 2.5



TEMPERATE XERIC (SUBMEDITERRANEAN)
 INFRATEMPERATE LOW DRY

WATER INDEX CARD ROMA (AUSTRALIA)
 Altitude: 299 m. Latitude: 26° 34'S

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jul.	11.9	20	38	17	31	20	0	0	0	0.8
Aug.	13.7	30	27	-3	28	30	0	0	0	0.0
Sep.	17.4	52	32	-20	8	52	0	0	0	-0.3
Oct.	21.6	94	50	-8	0	58	36	0	0	-0.4
Nov.	24.7	129	57	0	0	57	72	0	0	-0.5
Dec.	26.7	164	67	0	0	67	96	0	0	-0.5
Jan.	27.3	167	82	0	0	82	85	0	0	-0.5
Feb.	26.6	139	75	0	0	75	65	0	0	-0.4
Mar.	24.5	119	65	0	0	65	54	0	0	-0.4
Apr.	20.5	72	33	0	0	33	39	0	0	-0.5
May.	16.1	41	37	0	0	37	4	0	0	0.0
Jun.	12.7	22	36	14	14	22	0	0	0	0.6
Year	20.3	1049	598	*	*	598	451	0	0	*

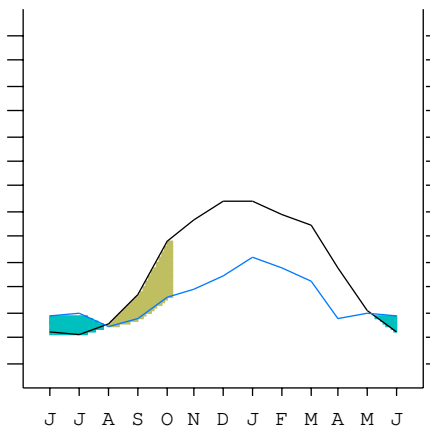
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

ROMA (AUSTRALIA)

26°34'S 148°47'E 299 m 83/121 y.

T= 20.3 Ic= 15.4 TEMPERATE XERIC (SUBMEDITERRANEAN)
 m= 7.3 Tp= 2437 INFRATEMPERATE
 M= 16.5 Tn= 0 LOW DRY
 M' = 0.0 Itc= 441
 m' = 0.0 Io= 2.5
 P= 598 mm ———
 PE= 1049 mm ———

Imbibing	7 May.
Saturation	
Reserve Use	26 Jul.
Deficit	6 Oct.



ROMA (AUSTRALIA)

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SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

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

Thermic types [A3.A2]
 + Latitudinal zone: A. Warm
 + Latitudinal belt: 3. Subtropical
 + Thermic type: A. Warm
 + Thermic subtype: 2. Warm

Bioclimatic types [C1b.1.5b]
 + Macrobioclimate: C. TEMPERATE
 + Bioclimate: 1. XERIC
 + Bioclimatic variant .: SUBMEDITERRANEAN
 + Thermic type.....: 1. INFRATEMPERATE
 + Thermic subtype.....:
 + Ombrothermic type ...: 5. DRY
 + Ombrothermic subtype : b. LOW

Bioclimatic ClassificationTexe (Sbm).Ite.Dry.Euo

ROMA (AUSTRALIA)

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 395
 Coldest semester of the year.....(Psw): 203
 Warmest four months period of the year.....(Pcm1): 280
 Following warmest four months period.....(Pcm2): 171
 Positive precipitation dryest 3 months.....(Ppd): 97
 Positive precipitation dryest 2 months.....(Ppd2): 59
 Positive precipitation dryest 1 month.....(Ppd1): 27
 Positive precipitation warmest 3 months.....(Pps): 224
 Positive precipitation warmest 2 months.....(Pps2): 149
 Positive precipitation warmest 1 month.....(Pps1): 82
 Positive precipitation coldest 3 months.....(Ppw): 100
 Positive precipitation coldest 2 months.....(Ppw2): 74
 Positive precipitation coldest 1 month.....(Ppw1): 38

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	100	139	223	134

Seasonal rainfall rhythms: S > P > F > W

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 27.3
 Average coldest month [T].....(Tmin): 11.9
 Maximum temp. warmest month [M].....(Tmax): 34.9
 Minimum temp. coldest month [m].....(Tmin): 7.3
 Absolute Max.temp. warmest month [M'].....(Tamax): 0.0
 Absolute Min.temp. coldest month [m'].....(Tamin): 0.0
 First warmest contrasted month [M].....(Tcmax): 34.9 (1)
 First coldest contrasted month [m].....(Tcmin): 20.0 (1)
 Estival temperature.....(Ts): 807
 Positive temperature dryest 3 months.....(Tpd): 430
 Positive temperature dryest 2 months.....(Tpd2): 311
 Positive temperature dryest 1 month.....(Tpd1): 137
 Positive temperature warmest 3 months.....(Tps): 807
 Positive temperature warmest 2 months.....(Tps2): 540
 Positive temperature warmest 1 month.....(Tps1): 273
 Positive temperature coldest 3 months.....(Tpw): 383
 Positive temperature coldest 2 months.....(Tpw2): 246
 Positive temperature coldest 1 month.....(Tpw1): 119

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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	o	o	o	o	o	o
Ultragelid...[M'<=0] (Pf)												
Hypergelid...[M <=0] (Pf)												
Gelid.....[T <=0] (Pf)												
Subgelid.....[m <=0] (Pf)												
Pregelid.....[m'<=0] (Pf)												
Agelid.....[m'> 0] (Pf)												
HiperAgelid..[all>0] (Pf)	o	o	o	o	o	o	o	o	o	o	o	o

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 1.75
 Mediterranean index of January.....(Im1): 2.04
 Mediterranean index of January & February....(Im2): 1.96
 Mediterranean index of December to February...(Im3): 2.10

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	671	820	746	650	332	368	360	376	268	323	502	565
Tp	267	273	266	245	205	161	127	119	137	174	216	247
Io (Iom)	2.51	3.00	2.80	2.65	1.62	2.29	2.83	3.16	1.95	1.86	2.33	2.29
Seasons	Summer			Autumn			Winter			Spring		
Pp(x10)/Tp	2237 / 807			1350 / 610			1004 / 383			1391 / 636		
Io (Iot)	2.773			2.211			2.619			2.185		
Semesters	December-May						June-November					
Pp(x10)/Tp	3587 / 1417						2394 / 1020					
Io (Iosm)	2.531						2.348					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 5981/2437=2.45 There is No Yearly Aridity

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	671	820	746	650	332	368	360	376	268	323	502	565
Tp [T*10]	267	273	266	245	205	161	127	119	137	174	216	247
Iom [Pp/Tp]	251	300	280	265	162	229	283	316	195	186	233	229
Avm [200-Iom]	***	***	***	***	38	***	***	***	5	14	***	***
Seasons	Summer			Autumn			Winter			Spring		
Pp / Tp	2237 / 807			1350 / 610			1004 / 383			1391 / 636		
Iot [Pp/Tp]	277			221			262			219		
Avs E[Avm<200]	***			***			***			***		
Strong upper semiarid [1]							Weak upper semiarid [2]					

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 15.39
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: 38.10
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 29.92
 + Oceanic (20<CI<40)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 1.56
 + Subcontinental (1.1<CI<1.7)
 Rainfall Index of Lang (1925) [R=P/T]: 29.46
 + Steppic (40>R>0)
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 19.74
 + Semiarid -mediterranean- (20>Ia>15)
 I of Emberger (1930) [Q=100*P/(Tmax²-Tmin²)]: 51.32
 + Subhumid (90>Q>50)
 I of Dantin & Revenga (1940) [DR=100*T/P]: 3.39
 + Arid (6>DR>3)
 Aridity Index of UNEP [I=P/PE]: 0.57
 + Subhumid - dry (0.65>I>0.5)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 11.24
 + Very low (K<60)

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate: A. Warm and temperate warm
 + Region: 5. Bixeric (Bixeric)
 + Thermic type: 2. Macrothermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.28	0.26	0.23	0.12	0.15	0.16	0.18	0.11	0.13	0.19	0.20	0.23
T-E ratio	12.28	11.99	11.03	9.20	7.23	5.73	5.35	6.16	7.83	9.70	11.10	12.03
Precipitation-effectiveness: 22.36						Temperature-efficiency: 109.65						
Moisture Index [MI=100*(P-PE)/PE]: -43.00 + D.Semiarid (-66.7<MI<-33.3)												
Index of dryness [DI=100*d/PE]: 43.00 + Strong deficit (33.3<DI)												
Index of humidity [HI=100*s/PE]: 0.00 + No surplus (0<HI<10)												
Potential Evapotranspiration PE: 1049.40 + Forth mesothermic (997<PE<1440)												

