

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

FARINA (AUSTRALIA)

Altitude: 92 m.

Latitude: 30°5'S Longitude: 138°8'E

Temperature observation period.: 1948-1994 (47)

Rainfall observation period....: 1964-1994 (31)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	27.78	35.56	20.00	47.78	10.56	12.7	174.90
Feb.	27.78	35.56	20.00	45.56	10.56	15.2	150.12
Mar.	24.45	31.67	17.22	43.89	8.33	12.7	120.07
Apr.	19.45	26.67	12.22	38.89	3.89	10.2	65.38
May.	14.73	21.67	7.78	32.78	-1.67	15.2	34.56
Jun.	11.67	17.78	5.56	30.00	-2.78	15.2	19.23
Jul.	10.56	17.22	3.89	30.00	-3.89	7.6	16.37
Aug.	12.78	20.00	5.56	32.78	-2.22	7.6	26.47
Sep.	16.11	23.89	8.33	37.78	0.56	7.6	45.65
Oct.	20.56	28.33	12.78	42.78	2.78	12.7	86.98
Nov.	24.17	32.22	16.11	43.89	5.56	12.7	125.93
Dec.	26.67	34.44	18.89	38.33	8.33	12.7	165.60
Year	19.73	27.08	12.36	38.71	3.33	142	1031.3

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	408
Compensated thermicity index.....(Itc):	408
Simple continentality index.....(Ic):	17.2
Diurnality index.....(Id):	16.1
Annual ombrothermic index.....(Io):	0.60
Monthly estival ombrothermic index.....(Ios1):	0.46
Bimonthly estival ombrothermic index.....(Ios2):	0.50
Threemonthly estival ombrothermic index.....(Ios3):	0.49
Fourmonthly estival ombrothermic index.....(Ios4):	0.50
Annual ombro-evaporation index.....(Ioe):	1.24
Annual positive temperature.....(Tp):	2367
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	822
Positive precipitation.....(Pp):	142

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	0	0	2	10	0

Latitudinal Belt...: Subtropical

Continentalty.....: Oceanic - Low Semicontinental

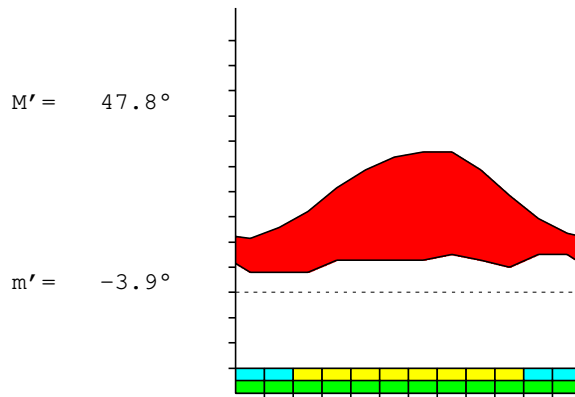
Bioclimate(Variant): MEDITERRANEAN DESERTIC-OCEANIC (STEPPIIC)

Bioclimatic Belt...: LOW THERMOMEDITERRANEAN LOW ARID

FARINA (AUSTRALIA)

92 m

P= 142 30° 5'S 138° 8'E 47/31 y.
 T= 19.7° Ic= 17.2 Tp= 2367 Tn= 0
 m= 3.9° M= 17.2° Itc= 408 Io= 0.6



MEDITERRANEAN DESERTIC-OCEANIC (STEPPIC)
 LOW THERMOMEDITERRANEAN LOW ARID

WATER INDEX CARD

FARINA (AUSTRALIA)

Altitude: 92 m.

Latitude: 30° 5'S

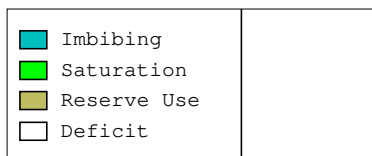
(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jul.	10.6	16	8	0	0	8	9	0	0	-0.5
Aug.	12.8	26	8	0	0	8	19	0	0	-0.7
Sep.	16.1	46	8	0	0	8	38	0	0	-0.8
Oct.	20.6	87	13	0	0	13	74	0	0	-0.8
Nov.	24.2	126	13	0	0	13	113	0	0	-0.8
Dec.	26.7	166	13	0	0	13	153	0	0	-0.9
Jan.	27.8	175	13	0	0	13	162	0	0	-0.9
Feb.	27.8	150	15	0	0	15	135	0	0	-0.8
Mar.	24.5	120	13	0	0	13	107	0	0	-0.8
Apr.	19.5	65	10	0	0	10	55	0	0	-0.8
May.	14.7	35	15	0	0	15	19	0	0	-0.5
Jun.	11.7	19	15	0	0	15	4	0	0	-0.2
Year	19.7	1031	142	*	*	142	889	0	0	*

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

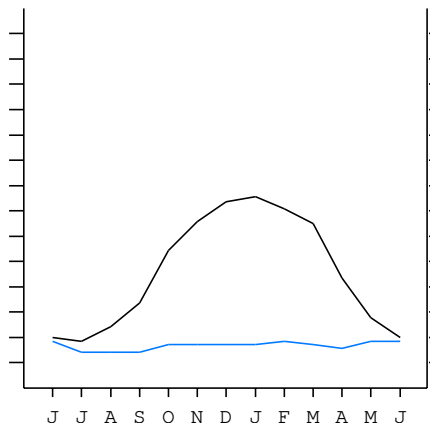
FARINA (AUSTRALIA)

30°5'S 138°8'E 92 m 47/31 y.

T= 19.7 Ic= 17.2 MEDITERRANEAN DESERTIC-OCEANIC (STEPPIC)
 m= 3.9 Tp= 2367 LOW THERMOMEDITERRANEAN
 M= 17.2 Tn= 0 LOW ARID
 M' = 47.8 Itc= 408
 m' = -3.9 Io= 0.6
 P= 142 mm ———
 PE= 1031 mm ———



All over the year,
 there is hydric deficit



FARINA (AUSTRALIA)

Latitude: 30°5'S Longitude: 138°8'E Altitude: 92 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [B1a]
 + Type: B. Oceanic
 + Subtype: 1. Semicontinental
 + Variant: a. Low
 Thermic types [A3.A2]
 + Latitudinal zone: A. Warm
 + Latitudinal belt: 3. Subtropical
 + Thermic type: A. Warm
 + Thermic subtype: 2. Warm
 Bioclimatic types [B4a.2b.3b]
 + Macrobioclimate: B. MEDITERRANEAN
 + Bioclimate: 4. DESERTIC-OCEANIC
 + Bioclimatic variant .: a. STEPPIC
 + Thermic type.....: 2. THERMOMEDITERRANEAN
 + Thermic subtype.....: b. LOW
 + Ombrothermic type ...: 3. ARID
 + Ombrothermic subtype : b. LOW
 Bioclimatic Classification: Mexc(Stp).Tme.Ari

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 79
 Coldest semester of the year.....(Psw): 63
 Warmest four months period of the year.....(Pcm1): 53
 Following warmest four months period.....(Pcm2): 48
 Positive precipitation dryest 3 months.....(Ppd): 23
 Positive precipitation dryest 2 months.....(Ppd2): 15
 Positive precipitation dryest 1 month.....(Ppd1): 8
 Positive precipitation warmest 3 months.....(Pps): 41
 Positive precipitation warmest 2 months.....(Pps2): 28
 Positive precipitation warmest 1 month.....(Pps1): 13
 Positive precipitation coldest 3 months.....(Ppw): 30
 Positive precipitation coldest 2 months.....(Ppw2): 23
 Positive precipitation coldest 1 month.....(Ppw1): 8

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	30	33	40	38

Seasonal rainfall rhythms: S > F > P > W

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 27.8
 Average coldest month [T].....(Tmin): 10.6
 Maximum temp. warmest month [M].....(Tmmax): 35.6
 Minimum temp. coldest month [m].....(Tmmin): 3.9
 Absolute Max.temp. warmest month [M'].....(Tamax): 47.8
 Absolute Min.temp. coldest month [m'].....(Tamin): -3.9
 First warmest contrasted month [M].....(Tcmax): 32.2 (11)
 First coldest contrasted month [m].....(Tcmin): 16.1 (11)
 Estival temperature.....(Ts): 822
 Positive temperature dryest 3 months.....(Tpd): 395
 Positive temperature dryest 2 months.....(Tpd2): 233
 Positive temperature dryest 1 month.....(Tpd1): 106
 Positive temperature warmest 3 months.....(Tps): 822
 Positive temperature warmest 2 months.....(Tps2): 556
 Positive temperature warmest 1 month.....(Tps1): 278
 Positive temperature coldest 3 months.....(Tpw): 350
 Positive temperature coldest 2 months.....(Tpw2): 222
 Positive temperature coldest 1 month.....(Tpw1): 106

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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)					o	o	o	o				
Agelid.....[m' > 0] (Pf)	o	o	o	o					o	o	o	o
HiperAgelid..[all>0] (Pf)	o	o	o	o					o	o	o	o

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 7.26
 Mediterranean index of January.....(Im1): 13.77
 Mediterranean index of January & February.....(Im2): 11.65
 Mediterranean index of December to February...(Im3): 12.08

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	127	127	152	127	102	152	152	76	76	76	127	127
Tp	267	278	278	245	195	147	117	106	128	161	206	242
Io (Iom)	0.48	0.46	0.55	0.52	0.52	1.03	1.30	0.72	0.59	0.47	0.62	0.53
Seasons	Summer			Autumn			Winter			Spring		
Pp(x10)/Tp	406 / 822			381 / 586			304 / 350			330 / 608		
Io (Iot)	0.494			0.650			0.868			0.542		
Semesters	December-May						June-November					
Pp(x10)/Tp	787 / 1409						634 / 959					
Io (Iosm)	0.559						0.661					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 1421/2367=0.60 Weak lower arid (6) [1621]

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	127	127	152	127	102	152	152	76	76	76	127	127
Tp [T*10]	267	278	278	245	195	147	117	106	128	161	206	242
Iom [Pp/Tp]	48	46	55	52	52	103	130	72	59	47	62	53
Avm [200-Iom]	152	154	145	148	148	97	70	128	141	153	138	147
Seasons	Summer			Autumn			Winter			Spring		
Pp / Tp	406 / 822			381 / 586			304 / 350			330 / 608		
Iot [Pp/Tp]	49			65			87			54		
Avs E[Avm<200]	452			392			338			439		
Strong lower arid [4]						Weak lower arid [8]						
Strong upper arid [1]						Weak upper arid [1]						
Strong lower semiarid [1]						Weak lower semiarid [1]						

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin]	(Sp):	17.22
CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]		38.00
CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]		31.46
+ 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]		7.20
+ Steppic (40>R>0)		
Aridity Index of Martonne (1926) [Ia=P/(T+10)]		4.78
+ Extremely arid -desert- (5>Ia>0)		
I of Emberger (1930) [Q=100*P/(Tmax ² -Tmin ²)]		11.37
+ Arid (30>Q>0)		
I of Dantin & Revenga (1940) [DR=100*T/P]		13.88
+ Extremely arid (DR>6)		
Aridity Index of UNEP [I=P/PE]		0.14
+ Arid (0.2>Im>0.05)		
Potential Erosion I of Fournier (1960) [K=Pi ² /P]		1.63
+ Very low (K<60)		

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate

- + Climate
- + Region
- + Thermic type: 2. Macrothermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.04	0.04	0.04	0.03	0.06	0.07	0.03	0.03	0.03	0.04	0.04	0.04
T-E ratio	12.50	12.50	11.00	8.75	6.63	5.25	4.75	5.75	7.25	9.25	10.88	12.00
Precipitation-effectiveness: 4.75						Temperature-efficiency						106.52
Moisture Index [MI=100*(P-PE)/PE]												-86.22
+ E.Dry (-110<MI<-66.7)												
Index of dryness [DI=100*d/PE]												86.21
+ Strong deficit (33.3<DI)												
Index of humidity [HI=100*s/PE]												0.00
+ No surplus (0<HI<10)												
Potential Evapotranspiration PE												1031.26
+ Forth mesothermic (997<PE<1440)												

