

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

Prof.Dr. Salvador Rivas-Martinez

(Adapted to Synoptical Table 30/08/2017)

BREÑA BAJA -LA PALMA- (ESP S.C.TENERIFE) Altitude: 300 m.

Latitude: 28°40'N Longitude: 17°45'W

Temperature observation period.: 1954-1969 (16)

Rainfall observation period....: 1954-1969 (16)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	17.20	21.00	13.40	24.40	11.10	104.0	47.17
Feb.	17.50	21.80	13.30	24.80	10.80	67.0	46.86
Mar.	18.50	22.90	14.10	26.30	11.70	39.0	62.74
Apr.	18.90	23.40	14.40	26.00	12.20	8.0	68.34
May.	20.10	24.50	15.80	27.00	13.80	11.0	85.65
Jun.	21.50	25.90	17.20	27.90	14.90	2.0	98.58
Jul.	23.00	27.40	18.50	30.10	16.80	0.0	117.42
Aug.	23.80	28.10	19.40	31.20	17.70	3.0	120.28
Sep.	23.60	27.90	19.30	30.30	17.60	6.0	107.60
Oct.	22.50	26.60	18.40	30.70	16.30	75.0	92.11
Nov.	19.90	23.50	16.30	26.70	13.70	122.0	63.72
Dec.	18.00	21.40	14.70	24.50	12.30	84.0	51.02
Year	20.38	24.53	16.23	27.49	14.07	521	961.49

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	548
Compensated thermicity index.....(Itc):	534
Simple continentality index.....(Ic):	6.6
Diurnality index.....(Id):	9.0
Annual ombrothermic index.....(Io):	2.13
Monthly estival ombrothermic index.....(Ios1):	No
Bimonthly estival ombrothermic index.....(Ios2):	0.06
Threemonthly estival ombrothermic index.....(Ios3):	0.07
Fourmonthly estival ombrothermic index.....(Ios4):	0.18
Annual ombro-evaporation index.....(Ioe):	0.23
Annual positive temperature.....(Tp):	2445
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	683
Positive precipitation.....(Pp):	521

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	3	3	0	6	0

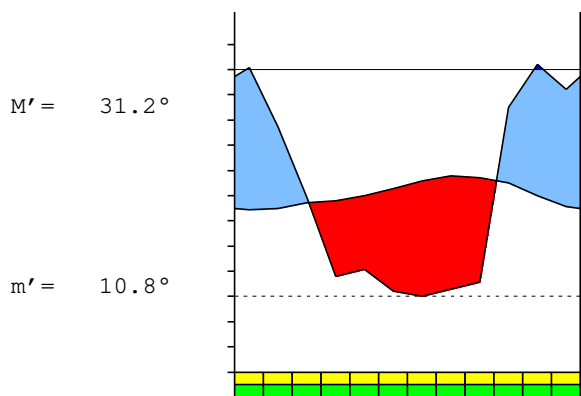
Latitudinal Belt...: Subtropical

Continentalty.....: Hyperoceanic - Low Euhyperoceanic

Bioclimate.....: MEDITERRANEAN PLUVISEASONAL-OCEANIC

Bioclimatic Belt...: LOW INFRAMEDITERRANEAN LOW DRY

BREÑA BAJA -LA PALMA- (ESP S.C.TENERIFE) 300 m
 P= 521 28° 40'N 17° 45'W 16/16 y.
 T= 20.4° Ic= 6.6 Tp= 2445 Tn= 0
 m= 13.4° M= 21.0° Itc= 534 Io= 2.1



MEDITERRANEAN PLUVISEASONAL-OCEANIC
 LOW INFRAMEDITERRANEAN LOW DRY

WATER INDEX CARD BREÑA BAJA -LA PALMA- (ESP S.C.TENERIFE)
 Altitude: 300 m. Latitude: 28° 40'N

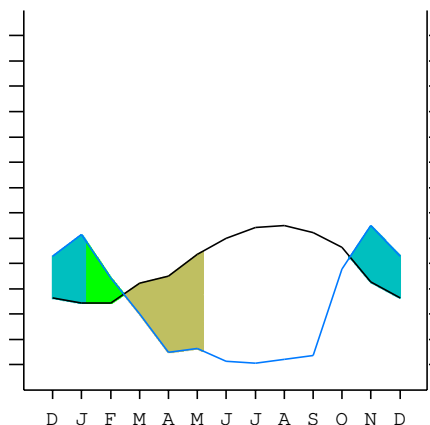
(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	17.2	47	104	9	100	47	0	48	24	1.2
Feb.	17.5	47	67	0	100	47	0	20	22	0.4
Mar.	18.5	63	39	-24	76	63	0	0	11	-0.3
Apr.	18.9	68	8	-60	16	68	0	0	6	-0.8
May.	20.1	86	11	-16	0	27	59	0	3	-0.8
Jun.	21.5	99	2	0	0	2	97	0	1	-0.9
Jul.	23.0	117	0	0	0	0	117	0	1	-1.0
Aug.	23.8	120	3	0	0	3	117	0	0	-0.9
Sep.	23.6	108	6	0	0	6	102	0	0	-0.9
Oct.	22.5	92	75	0	0	75	17	0	0	-0.1
Nov.	19.9	64	122	58	58	64	0	0	0	0.9
Dec.	18.0	51	84	33	91	51	0	0	0	0.6
Year	20.4	961	521	*	*	453	509	68	68	*

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

BREÑA BAJA -LA PALMA- (ESP S.C.TENERIFE)
 28°40'N 17°45'W 300 m 16/16 y.

T= 20.4 Ic= 6.6 MEDITERRANEAN PLUVISEASONAL-OCEANIC
 m= 13.4 Tp= 2445 LOW INFRAMEDITERRANEAN
 M= 21.0 Tn= 0 LOW DRY
 M' = 31.2 Itc= 534
 m' = 10.8 Io= 2.1
 P= 521 mm
 PE= 961 mm

Imbibing	7 Oct.
Saturation	5 Jan.
Reserve Use	14 Feb.
Deficit	7 May.



BREÑA BAJA -LA PALMA- (ESP S.C.TENERIFE)

Latitude: 28°40'N Longitude: 17°45'W Altitude: 300 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [A2b]
 + Type: A. Hyperoceanic
 + Subtype: 2. Euhyperoceanic
 + 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 [B8.1b.5b]
 + Macrobioclimate: B. MEDITERRANEAN
 + Bioclimate: 8. PLUVISEASONAL-OCEANIC
 + Bioclimatic variant ..:
 + Thermic type.....: 1. INFRAMEDITERRANEAN
 + Thermic subtype.....: b. LOW
 + Ombrothermic type ...: 5. DRY
 + Ombrothermic subtype : b. LOW
 Bioclimatic Classification: Mehc.Ime.Dry

BREÑA BAJA -LA PALMA- (ESP S.C.TENERIFE)

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 97
 Coldest semester of the year.....(Psw): 424
 Warmest four months period of the year.....(Pcm1): 84
 Following warmest four months period.....(Pcm2): 377
 Positive precipitation dryest 3 months.....(Ppd): 5
 Positive precipitation dryest 2 months.....(Ppd2): 2
 Positive precipitation dryest 1 month.....(Ppd1): 0
 Positive precipitation warmest 3 months.....(Pps): 9
 Positive precipitation warmest 2 months.....(Pps2): 9
 Positive precipitation warmest 1 month.....(Pps1): 3
 Positive precipitation coldest 3 months.....(Ppw): 255
 Positive precipitation coldest 2 months.....(Ppw2): 171
 Positive precipitation coldest 1 month.....(Ppw1): 104

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	255	58	5	203

Seasonal rainfall rhythms: W > F > P > S

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 23.8
 Average coldest month [T].....(Tmin): 17.2
 Maximum temp. warmest month [M].....(Tmmax): 28.1
 Minimum temp. coldest month [m].....(Tmmin): 13.3
 Absolute Max.temp. warmest month [M'].....(Tamax): 31.2
 Absolute Min.temp. coldest month [m'].....(Tamin): 10.8
 First warmest contrasted month [M].....(Tcmax): 23.4 (4)
 First coldest contrasted month [m].....(Tcmin): 14.4 (4)
 Estival temperature.....(Ts): 683
 Positive temperature dryest 3 months.....(Tpd): 683
 Positive temperature dryest 2 months.....(Tpd2): 445
 Positive temperature dryest 1 month.....(Tpd1): 230
 Positive temperature warmest 3 months.....(Tps): 704
 Positive temperature warmest 2 months.....(Tps2): 474
 Positive temperature warmest 1 month.....(Tps1): 238
 Positive temperature coldest 3 months.....(Tpw): 527
 Positive temperature coldest 2 months.....(Tpw2): 347
 Positive temperature coldest 1 month.....(Tpw1): 172

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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)	o	o	o	o	o	o	o	o	o	o	o	o
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): 1.85
 Mediterranean index of July.[PE/P].....(Im1): No
 Mediterranean index of July & August.....(Im2): 79.23
 Mediterranean index of June, July & August....(Im3): 67.26

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	840	1040	670	390	80	110	20	0	30	60	750	1220
Tp	180	172	175	185	189	201	215	230	238	236	225	199
Io (Iom)	4.67	6.05	3.83	2.11	0.42	0.55	0.09	0.00	0.13	0.25	3.33	6.13
Seasons	Winter			Spring			Summer			Autumn		
Pp(x10)/Tp	2550 / 527			580 / 575			50 / 683			2030 / 660		
Io (Iot)	4.839			1.009			0.073			3.076		
Semesters	December-May						June-November					
Pp(x10)/Tp	3130 / 1102						2080 / 1343					
Io (Iosm)	2.840						1.549					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 5210/2445=2.13 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	840	1040	670	390	80	110	20	0	30	60	750	1220
Tp [T*10]	180	172	175	185	189	201	215	230	238	236	225	199
Iom [Pp/Tp]	467	605	383	211	42	55	9	0	13	25	333	613
Avm [200-Iom]	***	***	***	***	158	145	191	200	187	175	***	***
Seasons	Winter			Spring			Summer			Autumn		
Pp / Tp	2550 / 527			580 / 575			50 / 683			2030 / 660		
Iot [Pp/Tp]	484			101			7			308		
Avs E[Avm<200]	***			***			578			***		
Lower ultrahyperarid [3]							Upper ultrahyperarid [1]					
Lower hyperarid [1]							Strong lower arid [1]					
Weak lower arid [1]												

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin]	(Sp): 6.60
CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]	2.99
CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]	3.96
+ Hyperoceanic (-20<CI<20)	
CI of Currey (1974) [CI=Sp/(1+Lat/3)]	0.63
+ Oceanic (0.6<CI<1.1)	
Rainfall Index of Lang (1925) [R=P/T]	25.57
+ Steppic (40>R>0)	
Aridity Index of Martonne (1926) [Ia=P/(T+10)]	17.15
+ Semiarid -mediterranean- (20>Ia>15)	
I of Emberger (1930) [Q=100*P/(Tmmax ² -Tmmin ²)]	85.03
+ Subhumid (90>Q>50)	
I of Dantin & Revenga (1940) [DR=100*T/P]	3.91
+ Arid (6>DR>3)	
Aridity Index of UNEP [I=P/PE]	0.54
+ Subhumid - dry (0.65>I>0.5)	
Potential Erosion I of Fournier (1960) [K=Pi ² /P]	28.57
+ 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	0.47	0.29	0.15	0.03	0.04	0.01	0.00	0.01	0.02	0.28	0.52	0.36
T-E ratio	7.74	7.88	8.32	8.50	9.05	9.67	10.35	10.71	10.62	10.13	8.95	8.10
Precipitation-effectiveness: 21.64						Temperature-efficiency						110.02
Moisture Index [MI=100*(P-PE)/PE]												-45.81
+ D.Semiarid (-66.7<MI<-33.3)												
Index of dryness [DI=100*d/PE]												52.91
+ Strong deficit (33.3<DI)												
Index of humidity [HI=100*s/PE]												7.09
+ No surplus (0<HI<10)												
Potential Evapotranspiration PE												961.49
+ Third mesothermic (855<PE<997)												

