

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

TELERGMA (ALGERIA)

Altitude: 757 m.

Latitude: 36°7'N Longitude: 6°22'E

Temperature observation period.: 1992-1994 (3)

Rainfall observation period....: 1992-1994 (3)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	5.56	11.67	-0.56	19.44	-5.56	13.2	10.15
Feb.	5.28	10.56	0.00	21.11	-6.11	38.9	9.15
Mar.	8.33	14.44	2.22	23.89	-3.33	29.7	22.65
Apr.	13.61	20.00	7.22	32.22	1.11	85.1	52.19
May.	16.67	24.44	8.89	35.00	3.89	4.3	78.89
Jun.	21.39	29.44	13.33	40.56	7.22	24.9	116.58
Jul.	26.67	35.56	17.78	41.67	12.78	0.0	169.71
Aug.	24.72	33.33	16.11	37.78	12.22	5.6	140.20
Sep.	23.06	31.11	15.00	36.67	6.67	16.8	111.65
Oct.	15.56	21.67	9.44	26.11	2.78	36.1	56.77
Nov.	9.17	13.89	4.44	17.78	-1.11	34.3	21.98
Dec.	7.23	11.67	2.78	17.22	-2.22	36.8	14.79
Year	14.77	21.48	8.05	29.12	2.36	326	804.71

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	253
Compensated thermicity index.....(Itc):	274
Simple continentality index.....(Ic):	21.4
Diurnality index.....(Id):	17.8
Annual ombrothermic index.....(Io):	1.84
Monthly estival ombrothermic index.....(Ios1):	No
Bimonthly estival ombrothermic index.....(Ios2):	0.11
Threemonthly estival ombrothermic index.....(Ios3):	0.42
Fourmonthly estival ombrothermic index.....(Ios4):	0.39
Annual ombro-evaporation index.....(Ioe):	0.37
Annual positive temperature.....(Tp):	1773
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	728
Positive precipitation.....(Pp):	326

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	3	4	1	4	0

Latitudinal Belt...: Low eutemperate

Continentality.....: Continental - Low Subcontinental

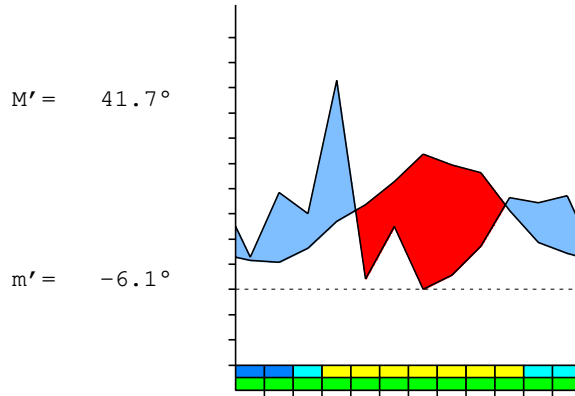
Bioclimate.....: MEDITERRANEAN XERIC-CONTINENTAL

Bioclimatic Belt...: UPPER MESOMEDITERRANEAN UPPER SEMIARID

TELERGMA (ALGERIA)

757 m

P= 326 36° 7'N 6° 22'E 3/3 y.
 T= 14.8° Ic= 21.4 Tp= 1773 Tn= 0
 m= 0.0° M= 10.6° Itc= 274 Io= 1.8



MEDITERRANEAN XERIC-CONTINENTAL
 UPPER MESOMEDITERRANEAN UPPER SEMIARID

WATER INDEX CARD

TELERGMA (ALGERIA)

Altitude: 757 m.

Latitude: 36° 7'N

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	5.6	10	13	3	37	10	0	0	0	0.3
Feb.	5.3	9	39	30	67	9	0	0	0	3.2
Mar.	8.3	23	30	7	74	23	0	0	0	0.3
Apr.	13.6	52	85	26	100	52	0	7	4	0.6
May.	16.7	79	4	-75	25	79	0	0	2	-0.9
Jun.	21.4	117	25	-25	0	50	66	0	1	-0.7
Jul.	26.7	170	0	0	0	0	170	0	0	-1.0
Aug.	24.7	140	6	0	0	6	135	0	0	-0.9
Sep.	23.1	112	17	0	0	17	95	0	0	-0.8
Oct.	15.6	57	36	0	0	36	21	0	0	-0.3
Nov.	9.2	22	34	12	12	22	0	0	0	0.5
Dec.	7.2	15	37	22	34	15	0	0	0	1.4
Year	14.8	805	326	*	*	319	486	7	7	*

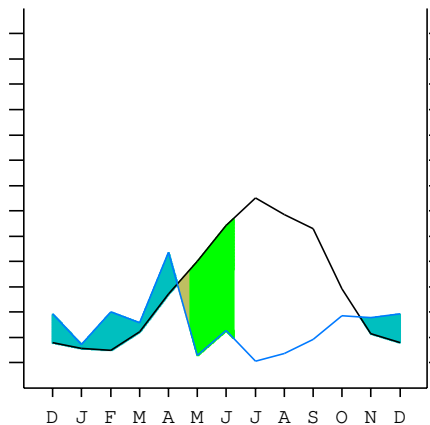
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

TELERGMA (ALGERIA)

36°7'N 6°22'E 757 m 3/3 y.

T= 14.8 Ic= 21.4 MEDITERRANEAN XERIC-CONTINENTAL
 m= 0.0 Tp= 1773 UPPER MESOMEDITERRANEAN
 M= 10.6 Tn= 0 UPPER SEMIARID
 M' = 41.7 Itc= 274
 m' = -6.1 Io= 1.8
 P= 326 mm ———
 PE= 805 mm ———

Imbibing	19 Oct.
Saturation	24 Apr.
Reserve Use	10 Apr.
Deficit	9 Jun.



TELERGMA (ALGERIA)

Latitude: 36°7'N Longitude: 6°22'E Altitude: 757 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [C2a]
 + Type: C. Continental
 + Subtype: 2. Subcontinental
 + Variant: a. Low
 Thermic types [B1.B4]
 + Latitudinal zone: B. Temperate
 + Latitudinal belt: 1. Low eumperate
 + Thermic type: B. Temperate
 + Thermic subtype: 4. Temperate
 Bioclimatic types [B5.3a.4a]
 + Macrobioclimate: B. MEDITERRANEAN
 + Bioclimate: 5. XERIC-CONTINENTAL
 + Bioclimatic variant .:
 + Thermic type.....: 3. MESOMEDITERRANEAN
 + Thermic subtype.....: a. UPPER
 + Ombrothermic type ...: 4. SEMIARID
 + Ombrothermic subtype : a. UPPER
 Bioclimatic Classification: Medo.Mme.Sar

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 88
 Coldest semester of the year.....(Psw): 238
 Warmest four months period of the year.....(Pcm1): 47
 Following warmest four months period.....(Pcm2): 120
 Positive precipitation dryest 3 months.....(Ppd): 22
 Positive precipitation dryest 2 months.....(Ppd2): 6
 Positive precipitation dryest 1 month.....(Ppd1): 0
 Positive precipitation warmest 3 months.....(Pps): 22
 Positive precipitation warmest 2 months.....(Pps2): 6
 Positive precipitation warmest 1 month.....(Pps1): 0
 Positive precipitation coldest 3 months.....(Ppw): 89
 Positive precipitation coldest 2 months.....(Ppw2): 52
 Positive precipitation coldest 1 month.....(Ppw1): 39

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	88	119	30	87

Seasonal rainfall rhythms: P > W > F > S

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 26.7
 Average coldest month [T].....(Tmin): 5.3
 Maximum temp. warmest month [M].....(Tmmax): 35.6
 Minimum temp. coldest month [m].....(Tmmin): -0.6
 Absolute Max.temp. warmest month [M'].....(Tamax): 41.7
 Absolute Min.temp. coldest month [m'].....(Tamin): -6.1
 First warmest contrasted month [M].....(Tcmax): 35.6 (7)
 First coldest contrasted month [m].....(Tcmin): 17.8 (7)
 Estival temperature.....(Ts): 728
 Positive temperature dryest 3 months.....(Tpd): 745
 Positive temperature dryest 2 months.....(Tpd2): 514
 Positive temperature dryest 1 month.....(Tpd1): 267
 Positive temperature warmest 3 months.....(Tps): 745
 Positive temperature warmest 2 months.....(Tps2): 514
 Positive temperature warmest 1 month.....(Tps1): 267
 Positive temperature coldest 3 months.....(Tpw): 181
 Positive temperature coldest 2 months.....(Tpw2): 108
 Positive temperature coldest 1 month.....(Tpw1): 53

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

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 2.47
 Mediterranean index of July.[PE/P].....(Im1): No
 Mediterranean index of July & August.....(Im2): 55.34
 Mediterranean index of June, July & August....(Im3): 13.98

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	368	132	389	297	851	43	249	0	56	168	361	343
Tp	72	56	53	83	136	167	214	267	247	231	156	92
Io (Iom)	5.09	2.37	7.37	3.57	6.25	0.26	1.16	0.00	0.23	0.73	2.32	3.74
Seasons	Winter			Spring			Summer			Autumn		
Pp(x10)/Tp	889 / 181			1191 / 386			305 / 728			872 / 478		
Io (Iot)	4.920			3.085			0.419			1.825		
Semesters	December-May						June-November					
Pp(x10)/Tp	2080 / 567						1177 / 1206					
Io (Iosm)	3.670						0.976					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 3257/1773=1.84 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	368	132	389	297	851	43	249	0	56	168	361	343
Tp [T*10]	72	56	53	83	136	167	214	267	247	231	156	92
Iom [Pp/Tp]	509	237	737	357	625	26	116	0	23	73	232	374
Avm [200-Iom]	***	***	***	***	***	174	84	200	177	127	***	***
Seasons	Winter			Spring			Summer			Autumn		
Pp / Tp	889 / 181			1191 / 386			305 / 728			872 / 478		
Iot [Pp/Tp]	492			308			42			182		
Avs E[Avm<200]	***			***			461			***		
Lower ultrahyperarid [1]						Lower hyperarid [2]						
Strong lower arid [1]						Strong upper arid [1]						
Strong lower semiarid [1]												

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin]	(Sp): 21.39
CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]	41.29
CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]	36.45
+ Oceanic (20<CI<40)	
CI of Currey (1974) [CI=Sp/(1+Lat/3)]	1.64
+ Subcontinental (1.1<CI<1.7)	
Rainfall Index of Lang (1925) [R=P/T]	22.05
+ Steppic (40>R>0)	
Aridity Index of Martonne (1926) [Ia=P/(T+10)]	13.15
+ Arid -steppic- (15>Ia>5)	
I of Emberger (1930) [Q=100*P/(Tmax ² -Tmin ²)]	25.76
+ Arid (30>Q>0)	
I of Dantin & Revenga (1940) [DR=100*T/P]	4.54
+ Arid (6>DR>3)	
Aridity Index of UNEP [I=P/PE]	0.40
+ Semiarid (0.5>Im>0.2)	
Potential Erosion I of Fournier (1960) [K=Pi ² /P]	22.24
+ Very low (K<60)	

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate

- + Climate
- + Region
- + Thermic type: 4. Mesothermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.07	0.23	0.15	0.42	0.01	0.09	0.00	0.02	0.05	0.15	0.17	0.20
T-E ratio	2.50	2.38	3.75	6.12	7.50	9.63	12.00	11.12	10.38	7.00	4.13	3.25
Precipitation-effectiveness: 15.65						Temperature-efficiency						79.76
Moisture Index [MI=100*(P-PE)/PE]												-59.53
+ D.Semiarid (-66.7<MI<-33.3)												
Index of dryness [DI=100*d/PE]												60.39
+ Strong deficit (33.3<DI)												
Index of humidity [HI=100*s/PE]												0.87
+ No surplus (0<HI<10)												
Potential Evapotranspiration PE												804.71
+ Second mesothermic (712<PE<855)												

