

Phenotypic polymorphism of leaves among the populations of Moroccan chestnut '*Castanea sativa* Mill.'

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Supplementary

Table 1S. Leaf studied parameters in the 31 chestnut populations.

Pop	Para	S (cm <sup>2</sup> )	P (cm)	PL (cm)	LL (cm)	LW (cm)	DBW (cm)	X + SD (CV%)	Max Min	P Pr > F
Aanane		72.58	39.40	2.19	17.75	5.98	8.81	82.99 ±31.83 (38)	227.7 0 14.21	27.11 > 0.0001
Aaychoune		73.78	37.72	2.16	16.41	6.64	8.13	39.79 ±7.79 (19)	67.14 16.29	25.25 > 0.0001
Aazfa		53.43	31.98	2.36	13.57	5.64	6.81	2.14 ±0.65 (30)	17.56 1 0.71	15.93 > 0.0001
Ihamdanene		78.16	39.84	2.25	17.52	6.51	8.36	17.42 ±3.76 (21)	31.12 5.40	25.07 > 0.0001
Iaaboutene		84.54	40.06	2.28	17.64	6.96	8.97	7.04 ±1.54 (21)	13.30 2.89	32.55 > 0.0001
Imfranhene		88.94	40.34	2.05	17.35	7.45	8.84	8.58 ±2.21 (26)	17.66 2.01	29.17 > 0.0001
Imoudhene		84.37	39.48	2.35	17.12	7.27	8.78			
Iaajanene		88.15	39.66	2.18	17.15	7.71	8.63			
Bayine		81.38	38.60	2.26	16.46	7.00	8.95			
Bni Asserne		98.29	42.87	2.07	18.93	7.86	10.28			
Boulouazene		83.54	39.70	2.08	17.66	7.05	9.21			
Ibraquene		84.49	38.96	1.98	16.69	7.40	8.09			
Choubbene		68.17	37.49	2.56	16.06	6.01	8.04			
Choutene		79.33	39.78	2.31	17.66	6.80	8.37			
Ilahmrene		89.70	41.65	1.87	18.46	7.48	9.39			
Imkourène		93.46	43.16	2.20	19.30	7.16	9.64			
Kouf		78.35	38.29	2.37	16.99	6.98	8.44			
Mokdassene		74.34	39.68	2.43	17.73	6.31	8.26			
Lkhmisse		96.08	42.73	1.95	18.84	7.61	9.40			
Oued Lille		84.40	39.80	2.15	17.70	7.17	9.26			
Zarfoune		95.59	41.52	2.23	17.94	7.85	9.32			
Oued Sidiwine		74.70	37.55	2.00	16.41	6.91	7.96			
Iquizazene		81.00	38.92	2.13	17.07	7.22	8.12			
Silmatene		99.92	43.82	2.03	18.93	7.84	8.81			
Tighlaroune		67.80	36.86	2.15	16.04	6.25	6.95			
Toughza		76.94	38.39	1.99	16.81	6.96	7.94			
Tikinzouine		92.03	42.38	2.18	18.70	7.34	8.76			
Tazka		108.0	46.48	2.06	20.42	7.92	9.17			
Hrazma		70.06	36.51	2.04	15.89	6.62	6.72			
Zemmouret		86.77	39.59	1.77	17.17	7.33	8.89			
Zawya sdi kaceme		89.78	41.47	1.81	18.13	7.36	9.06			

				2.52	5.32	27.03
				$\pm 0.51$	0.64	>
				(20)		0.0001
				8.63	35.96	42.35
				$\pm 2.80$	0.40	>
				(32)		0.0001
				2.07	3.86	19.63
				$\pm 0.43$	0.60	>
				(21)		0.0001
				4.26	17.53	39.02
				$\pm 1.53$	0.11	>
				(36)		0.0001
	2.50	10.50	2.14	5.23		
	2.38	9.98	1.98	5.17		
	2.41	8.08	2.42	3.42		
	2.66	11.07	2.25	5.02		
	2.61	9.60	2.22	4.52		
	2.46	8.94	2.18	4.24		
	2.61	7.94	2.35	3.45		
	2.51	9.95	2.20	4.64		
	2.41	8.67	2.23	4.15		
	2.43	8.83	2.09	4.31		
	2.32	8.20	1.94	4.25		
	2.52	8.73	1.94	4.58		
	2.50	10.06	2.04	5.04		
	2.88	7.48	2.17	3.49		
	2.47	7.45	2.03	3.70		
	2.76	9.29	2.04	4.64		
	2.49	10.38	1.98	5.29		
	2.63	7.95	2.15	3.77		
	2.74	6.62	2.01	3.33		
	2.27	8.71	2.11	4.23		
	2.51	8.75	1.95	4.56		
	2.44	9.90	1.86	5.43		
	2.35	7.49	1.86	4.09		
	2.25	8.55	2.00	4.31		
	2.37	7.42	1.99	3.79		
	2.32	8.58	1.98	4.36		
	2.55	7.87	1.99	3.98		
	2.73	7.87	2.10	3.77		
	2.47	5.94	2.02	2.97		
	2.50	7.83	2.06	3.89		
	3.07	8.63	2.03	4.29		
LL/L W						
LL/PL						
LL/ DBW						
DBW / PL						

**Table 2S.** The sampled populations of chestnut (*C. sativa*) in Morocco

Populations	Locations	Coordinates		Altitudes (m)
		"°N"	"°W"	
1	Oued Zarjoune	35.728799	5.436532	329
2	Kouf	35.712720	5.419393	120
3	Bayine	35.689583	5.417864	180
4	Boulouazene	35.672210	5.416667	130
5	Oued Lille	35.645039	5.411732	150
6	Mokdassene	35.497364	5.299616	489
7	Chouibene	35.464993	5.287392	489
8	Aazfa	35.460980	5.286323	456
9	Toughza	35.438671	5.280594	400
10	Iquzazene	35.429536	5.272257	300
11	Ibraquene	35.429187	5.261099	587
12	Imekouarene	35.436136	5.263149	600
13	Sidjiwine	35.457148	5.274387	306
14	Oued Lkhmisse	35.453062	5.259046	189
15	Hrazma	35.432412	5.252318	210
16	Iaajanene	35.427023	5.249051	504
17	Aanane	35.466608	5.243504	456
18	Imftahene	35.467267	5.237839	655
19	Zaouya SdiKaceme	35.468867	5.221746	811
20	Imoudnene	35.454009	5.242635	656
21	Tikinziouine	35.454413	5.243804	675
22	Aaychoune	35.441298	5.230136	456
23	Tazka	35.432509	5.228301	853
24	Ilahamrene	35.433173	5.222309	675
25	Ihamdanene	35.459966	5.229814	668
26	Iaaboutene	35.457642	5.230981	851
27	Chouitene	35.450602	5.225217	472
28	Slimatene	35.448138	5.226150	600
29	Zemmouret	35.443837	5.211393	704
30	Tigalharoune	35.456702	5.231450	320
31	Bni Aasseme	35,421700	5,236600	802