

Appendix 1. Coefficient of variation (%) of flower traits for L and S flowers of *Narcissus papyraceus* populations.

Population	Morph	Flower diameter	Corona length	Corona diameter	Flower tube length	Flower tube width	Style length	Upper anther height	Lower anther height
Morocco: Tánger-Tetuán, Oued Lediane	L	13.73	15.22	8.79	12.14	10.41	7.35	9.82	12.22
Morocco: Tánger-Tetuán, Oued Lediane	S	15.60	20.87	10.79	13.42	13.53	12.49	10.50	14.02
Morocco: Tetuán-Larache, Souk el Arba Ayacha	L	10.13	13.33	7.26	9.56	9.84	6.89	7.96	9.00
Morocco: Tánger-Tetuán, Ragaia	L	12.15	17.10	8.96	10.32	10.20	12.33	9.51	8.87
Morocco: Tánger-Tetuán, Ragaia	S	12.83	14.09	7.84	9.47	10.84	11.21	8.93	10.31
Spain: Málaga, Casares-Manilva	L	12.84	12.67	8.62	11.68	10.85	10.09	10.22	12.82
Spain: Málaga, Casares-Manilva	S	14.94	12.49	8.30	10.69	10.15	6.95	9.46	12.27
Spain: Málaga, San Pedro de Alcántara	L	15.12	14.97	8.59	9.76	13.27	9.67	9.26	10.13
Spain: Cádiz, Tarifa-Bolonia	L	18.74	15.39	11.20	11.87	18.62	13.23	11.23	12.93
Spain: Cádiz, Tarifa-Bolonia	S	14.58	15.62	10.73	10.48	14.69	10.50	11.50	11.10
Spain: Cádiz, Los Barrios	L	12.99	14.70	9.01	9.87	16.07	11.32	9.60	12.84
Spain: Cádiz, Los Barrios	S	13.25	12.65	7.31	9.40	10.26	13.66	9.76	12.00
Spain: Cádiz, El Bosque	L	15.35	14.90	8.63	9.75	10.49	9.68	10.87	13.12
Spain: Cádiz, El Bosque	S	17.99	19.99	12.49	11.45	14.91	14.83	15.53	15.27
Spain: Huelva, Villanueva de los Castillejos	L	11.79	12.59	7.09	8.75	10.01	8.27	9.20	11.22
Spain: Huelva, Hinojos, El Caoso	L	13.06	12.60	8.35	9.85	18.10	9.30	8.36	11.65
Spain: Huelva, Hinojos, Coto del Rey	L	11.12	16.61	8.90	9.95	9.30	9.51	8.81	10.17
Spain: Huelva, Almonte, El Rocío	L	11.12	15.44	8.62	11.41	10.60	8.75	8.49	10.49
Spain: Sevilla, Aznalcázar	L	10.87	15.92	10.00	9.84	10.89	10.10	8.40	10.69
Spain: Córdoba, Carcabuey, Valdecañas	L	9.71	15.23	8.29	12.37	11.35	9.92	9.92	11.46
Portugal: Algarve, Barranco São Miguel	L	11.38	13.40	7.19	10.28	11.62	8.82	9.06	11.22
Portugal: Algarve, Mesines-Alte	L	10.84	13.27	6.48	10.20	10.87	10.15	9.34	11.16
Portugal: Algarve, Tavira	L	15.32	16.67	8.66	10.36	12.38	8.44	9.71	10.70

Appendix 2. Pearson’s coefficients of correlations among floral traits for L and S flowers from dimorphic populations. See table 1 for population details on sample size. Floral traits are coded as follows: 1) flower diameter, 2) corona diameter, 3) corona length, 4) flower tube length, 5) flower tube width, 6) style length, 7) upper anther height, and 8) lower anther height

Population	Pearson’s coefficient of correlation among floral traits for L flowers							Pearson’s coefficient of correlation among floral traits for S flowers						
Oued														
Lediane	1	2	3	4	5	6	7	1	2	3	4	5	6	7
2	0.461							0.378						
3	0.574	0.462						0.399	0.113					
4	0.357	0.147	0.369					0.454	0.607	0.428				
5	0.550	0.251	0.376	0.305				0.201	0.125	0.117	0.151			
6	0.415	0.122	0.311	0.258	0.176			0.407	0.560	0.260	0.610	0.114		
7	0.394	0.206	0.303	0.759	0.323	0.352		0.536	0.537	0.249	0.796	0.159	0.638	
8	0.536	0.397	0.361	0.626	0.438	0.379	0.791	0.422	0.458	0.196	0.755	0.195	0.692	0.872
Ragaia														
2	0.327							0.302						
3	0.425	0.257						0.413	0.092					
4	0.294	0.017	-0.145					0.115	0.085	-0.008				
5	0.259	0.145	0.298	0.157				0.357	0.186	0.355	0.145			
6	0.399	0.039	-0.122	0.624	0.081			0.175	0.223	-0.146	0.388	0.038		
7	0.269	-0.002	-0.179	0.853	0.044	0.561		0.174	0.215	-0.012	0.763	0.007	0.409	
8	0.442	0.155	-0.047	0.738	0.109	0.612	0.776	0.164	0.115	-0.066	0.575	-0.066	0.356	0.823
Casares-Manilva														
2	0.412							0.634						
3	0.518	0.372						0.777	0.508					
4	0.080	0.210	0.292					0.484	0.064	0.422				

5	0.572	0.234	0.635	0.130				0.819	0.367	0.776	0.392			
6	0.111	0.209	0.136	0.588	0.183			0.531	0.193	0.230	0.745	0.258		
7	0.115	0.223	0.198	0.854	0.155	0.650		0.438	0.091	0.419	0.958	0.277	0.682	
8	0.051	0.176	0.180	0.703	0.137	0.711	0.821	0.554	0.171	0.432	0.873	0.447	0.642	0.864
Tarifa-Bolonia														
2	0.591							0.393						
3	0.803	0.440						0.599	0.406					
4	0.530	0.435	0.451					0.209	0.536	0.323				
5	0.625	0.441	0.654	0.527				0.428	0.404	0.690	0.393			
6	0.511	0.350	0.355	0.738	0.402			0.142	0.520	0.102	0.424	0.213		
7	0.550	0.499	0.482	0.873	0.414	0.713		0.357	0.642	0.390	0.847	0.465	0.564	
8	0.481	0.424	0.433	0.741	0.332	0.682	0.879	0.371	0.518	0.305	0.732	0.407	0.571	0.802
Los Barrios														
2	0.363							0.458						
3	0.657	0.223						0.545	0.559					
4	0.473	0.122	0.402					0.591	0.432	0.614				
5	0.574	0.322	0.653	0.532				0.562	0.292	0.211	0.243			
6	0.479	0.190	0.183	0.606	0.305			0.422	0.334	0.247	0.478	0.273		
7	0.532	0.200	0.334	0.859	0.506	0.671		0.614	0.428	0.533	0.819	0.271	0.600	
8	0.354	0.147	0.138	0.652	0.393	0.555	0.843	0.540	0.351	0.504	0.777	0.284	0.536	0.843
El Bosque														
2	0.673							0.647						
3	0.423	0.291						0.770	0.859					
4	0.557	0.478	0.105					0.656	0.433	0.410				
5	0.272	0.324	0.377	0.200				0.641	0.354	0.431	0.502			
6	0.537	0.425	0.154	0.814	0.067			0.771	0.659	0.651	0.778	0.415		
7	0.714	0.527	0.268	0.926	0.170	0.764		0.630	0.466	0.367	0.923	0.480	0.809	

8	0.507	0.488	0.285	0.815	0.149	0.801	0.780	0.625	0.480	0.410	0.805	0.395	0.788	0.913
*Barranco														
São Miguel														
2	0.393													
3	0.599	0.406												
4	0.209	0.536	0.323											
5	0.428	0.404	0.690	0.393										
6	0.142	0.520	0.102	0.424	0.213									
7	0.357	0.642	0.390	0.847	0.465	0.564								
8	0.371	0.518	0.305	0.732	0.407	0.571	0.802							

Phenotypic correlations among floral traits for the S morph were not included because sample size was small.

Appendix 3. Pearson's coefficients of correlations among floral traits for L flowers from L-monomorphic or strongly L-biased populations. See table 1 for population details on simple size . Floral traits are coded as follows: 1) flower diameter, 2) corona diameter, 3) corona length, 4) flower tube length, 5) flower tube width, 6) style length, 7) upper anther height, and 8) lower anther height

Population	Pearson's coefficient of correlation among floral traits for L flowers							Population	Pearson's coefficient of correlation among floral traits for L flowers						
	1	2	3	4	5	6	7		1	2	3	4	5	6	7
Tetuán-Larache								El Rocío							
2	0.078								0.341						
3	0.430	-0.039							0.349	0.254					
4	0.126	0.170	0.069						0.218	0.193	0.059				
5	0.322	0.116	0.367	0.001					0.407	0.233	0.115	0.120			
6	0.172	0.059	0.205	0.352	0.129				0.496	0.323	0.239	0.391	0.117		
7	0.216	0.218	0.162	0.826	-0.004	0.329			0.339	0.262	0.171	0.740	0.084	0.534	
8	0.157	0.223	0.061	0.680	-0.090	0.292	0.737		0.259	0.274	0.165	0.602	0.120	0.551	0.681
S. Pedro Alcántara								Azncázar							
2	0.514								0.418						
3	0.607	0.409							0.471	0.118					
4	0.134	0.161	0.087						0.011	0.096	0.056				
5	0.358	0.351	0.469	0.366					0.414	0.382	0.418	-0.006			
6	0.441	0.281	0.268	0.621	0.401				0.284	0.298	0.234	0.502	0.122		
7	0.292	0.394	0.170	0.846	0.439	0.657			0.106	0.185	0.138	0.769	0.059	0.605	
8	0.157	0.277	0.135	0.758	0.334	0.628	0.840		0.061	0.136	0.028	0.656	-0.082	0.706	0.766
Villanueva de los C								Carcabuey-Valdecañas							
2	0.504								0.455						
3	0.492	0.403							0.053	0.262					

4	0.483	0.241	0.279					0.301	0.339	0.141				
5	0.598	0.383	0.605	0.365				0.298	0.114	0.143	0.120			
6	0.448	0.218	0.196	0.504	0.315			0.387	0.440	0.025	0.551	-0.009		
7	0.522	0.304	0.301	0.744	0.367	0.675		0.267	0.269	0.183	0.601	0.071	0.545	
8	0.448	0.230	0.184	0.573	0.359	0.666	0.773	0.286	0.267	0.063	0.460	0.093	0.619	0.689

Hinojos,
El Caoso

Mesines-.Alte

2	0.276							0.397						
3	0.559	-0.138						0.481	0.259					
4	0.374	0.239	0.379					0.295	0.115	0.188				
5	-0.038	0.014	0.009	0.632				0.541	0.326	0.370	0.045			
6	0.140	-0.004	-0.053	0.485	0.328			0.509	0.242	0.251	0.566	0.168		
7	0.359	0.227	0.089	0.777	0.671	0.546		0.379	0.158	0.243	0.771	-0.002	0.667	
8	0.508	0.140	0.325	0.679	0.370	0.439	0.765	0.312	0.108	0.303	0.623	-0.068	0.623	0.757

Hinojos, Coto
del Rey

Tavira

2	0.394							0.144						
3	0.269	-0.147						0.675	0.048					
4	0.112	0.217	-0.102					0.303	-0.208	0.384				
5	0.234	0.090	0.360	-0.115				0.516	0.117	0.542	0.234			
6	0.339	0.310	-0.002	0.539	-0.144			0.370	-0.133	0.352	0.588	0.241		
7	0.247	0.290	-0.106	0.866	-0.077	0.617		0.352	-0.183	0.430	0.857	0.352	0.646	
8	0.180	0.249	-0.059	0.689	-0.120	0.521	0.773	0.320	-0.107	0.344	0.675	0.233	0.648	0.782