

Table S1. Sample size (n), geographic coordinates, altitudes and environmental variables for 17 *Pyrus spinosa* populations ($n = 170$). Environmental variables: BIO1 (Annual Mean Temperature); BIO3 (Isothermality (BIO2/BIO7) $\times 100$); BIO4 (Temperature Seasonality (standard deviation $\times 100$)); BIO5 (Max Temperature of Warmest Month); BIO8 (Mean Temperature of Wettest Quarter); BIO9 (Mean Temperature of Driest Quarter); BIO12 (Annual Precipitation); BIO15 (Precipitation Seasonality (Coefficient of Variation)); BIO17 (Precipitation of Driest Quarter); BIO19 (Precipitation of Coldest Quarter); SOLAR 6 (Insolation in June).

Pop. ID	Population	n	Longitude	Latitude	Altitude	BIO1	BIO3	BIO4	BIO5	BIO8	BIO9	BIO12	BIO15	BIO17	BIO19	SOLAR6
P01	Škropeti	10	13.8272	45.2732	330	12.2	34.1	697.4	26.1	8.2	4.8	1060	19.7	215	234	20709
P02	Žminj	10	13.9067	45.1837	382	11.9	34.5	705	26.2	7.8	4.5	1039	20.2	215	234	20970
P03	Pula	10	13.9005	44.8756	67	13.9	32.3	671.4	27.1	14.6	20.3	790	25.4	153	192	21741
P04	Vir	10	15.0364	44.323	11	15.1	28.2	621.2	26.8	16	23.1	909	33	144	236	22578
P05	Obrovac	10	15.6628	44.2143	117	13.9	30.5	692.9	28	14.6	22.7	940	25.5	162	237	22425
P06	Nin	10	15.3341	44.212	95	14	33.9	669	27.9	14.6	22.4	926	30	148	239	22320
P07	Krka	10	16.0479	44.0304	269	13.4	35.3	705.7	28.4	9.6	22.5	904	23.6	164	232	22630
P08	Drniš	10	16.3273	43.7767	355	13.1	33.4	723.4	28	9	22.3	876	24.9	157	228	22437
P09	Sinj	10	16.6208	43.611	347	13.4	34.2	733.2	28.8	9.1	22.8	878	26.8	152	235	22801
P10	Muč	10	16.6255	43.606	346	13.4	34	736.5	28.9	9.1	22.9	876	27.3	151	235	22750
P11	Blato na Cetini	10	16.837	43.4805	226	13.9	31.1	700.2	27.8	10	22.8	870	27.9	146	239	22747
P12	Biokovo	10	17.022	43.3208	331	12.2	36.8	634.3	24.9	9.4	20.1	904	29.5	142	252	22644
P13	Brač	10	16.7999	43.3017	330	14.7	26.1	681.7	27.3	11.3	23.6	813	31.5	127	233	23111
P14	Hvar	10	16.5975	43.1447	623	14.2	26.8	624.3	25.9	11.5	22.4	727	32.8	108	191	23257
P15	Pelješac	10	17.086	42.9954	280	15.2	29.2	594.4	26.9	12.9	23	801	34	111	229	23230
P16	Slano	10	17.8484	42.8286	326	15.2	27.3	663.5	27.6	12.1	23.9	1067	36.9	140	333	23070
P17	Konavle	10	18.3581	42.5011	340	15.4	29.9	615.7	27.5	12.7	23.4	1247	45.2	130	418	23395

Table S2. Descriptive statistics of the measured phenotypic traits at the population level. Descriptive statistical parameters: M (Average Value); CV (Coefficient of Variation (%)). Leaf measured traits: LA (Leaf Area), P (Perimeter), FC (Form Coefficient), LL (Leaf Length), MLW (Maximal Leaf Width), PMLW (Position of Maximal Leaf Width), LWT (Leaf Blade Width at 90% of Leaf Blade Length), LA1 (Leaf Angle 1), LA2 (Leaf Angle 2), PL (Petiole Length). Acronyms of populations: P01 – Škropeti; P02 – Žminj; P03 – Pula; P04 – Vir; P05 – Obrovac; P06 – Nin; P07 – Krka; P08 – Drniš; P09 – Sinj; P10 – Muć; P11 – Blato na Cetini; P12 – Biokovo; P13 – Brač; P14 – Hvar; P15 – Pelješac; P16 – Slano; P17 – Konavle.

Population	LA		P		FC		LL		MLW		PMLW		LWT		LA1		LA2		PL	
	M	CV	M	CV	M	CV	M	CV	M	CV	M	CV	M	CV	M	CV	M	CV	M	CV
P01	4.58	41.18	9.15	23.06	0.68	14.55	3.77	25.20	1.66	21.23	1.93	28.09	0.86	23.75	39.79	21.48	33.02	20.45	1.35	33.64
P02	4.72	42.43	9.11	21.54	0.69	13.53	3.73	22.42	1.73	26.71	1.93	23.45	0.89	29.51	39.49	19.03	33.34	16.84	1.34	42.10
P03	3.57	31.11	8.72	17.79	0.59	14.78	3.62	19.07	1.37	18.47	1.90	19.41	0.72	27.37	35.09	16.44	28.03	15.98	1.18	42.67
P04	3.79	28.76	9.34	20.49	0.56	20.88	3.95	22.21	1.35	16.09	2.00	24.92	0.70	21.14	32.81	23.64	26.77	22.34	1.26	39.39
P05	3.27	43.77	7.81	23.93	0.65	13.88	3.21	24.81	1.36	25.20	1.58	28.14	0.72	26.93	40.96	17.19	32.63	16.45	1.04	41.39
P06	3.08	43.93	8.10	25.74	0.58	16.24	3.41	26.89	1.24	21.94	1.75	29.37	0.62	20.75	33.80	24.92	27.47	21.14	1.13	36.80
P07	3.06	31.75	7.90	19.95	0.63	15.32	3.09	20.24	1.36	16.00	1.51	24.35	0.67	24.94	42.90	15.84	33.72	14.30	1.10	40.53
P08	3.27	41.03	7.96	21.78	0.64	17.33	3.29	23.16	1.38	25.43	1.61	27.52	0.67	35.21	37.65	23.60	31.67	23.18	1.20	47.22
P09	3.34	34.07	8.61	19.65	0.57	17.89	3.59	21.01	1.32	20.58	1.88	24.43	0.69	24.24	30.50	22.10	26.42	21.55	1.37	36.71
P10	2.73	36.88	8.02	19.85	0.52	16.47	3.42	20.30	1.12	22.13	1.76	19.78	0.54	20.15	29.91	19.16	24.01	18.61	1.00	36.07
P11	3.22	33.13	8.19	17.95	0.60	16.53	3.44	18.79	1.30	21.62	1.80	22.31	0.68	22.98	35.20	20.75	28.11	20.01	1.28	40.50
P12	2.64	45.63	7.45	25.72	0.59	18.32	3.15	26.49	1.13	24.68	1.57	29.11	0.58	26.55	35.46	21.92	27.94	20.90	0.94	40.25
P13	2.74	41.38	7.60	24.58	0.59	16.50	3.19	25.74	1.18	23.35	1.60	29.29	0.57	23.54	35.76	23.51	28.75	21.26	0.91	47.33
P14	1.94	46.70	6.24	25.52	0.60	16.17	2.62	26.58	0.98	27.80	1.34	27.41	0.51	26.21	35.99	16.69	28.85	17.59	0.90	40.94
P15	2.55	37.49	7.46	21.87	0.57	14.22	3.05	23.46	1.12	18.40	1.56	26.93	0.60	17.72	37.82	17.11	28.73	16.85	0.95	42.67
P16	3.98	38.99	9.02	19.33	0.60	16.53	3.73	19.86	1.48	26.07	1.84	23.53	0.73	27.97	37.01	21.84	29.94	21.07	1.11	40.20
P17	3.85	50.08	9.10	27.18	0.57	23.32	3.78	27.97	1.41	32.08	1.89	27.72	0.69	29.88	34.46	24.98	28.33	27.09	1.22	46.29

Table S3. Pearson correlation coefficients between 12 environmental variables and scores of the first four principal components.

Environmental variables	PC—Principal Component			
	PC1	PC2	PC3	PC4
BIO1 (Annual Mean Temperature)	-0.941038	-0.038166	-0.114275	-0.138687
BIO3 (Isothermality (BIO2/BIO7) ×100))	0.737832	-0.013378	-0.230425	0.033430
BIO4 (Temperature Seasonality (standard deviation ×100))	0.658443	0.276399	-0.591564	0.263856
BIO5 (Max Temperature of Warmest Month)	-0.129533	0.293355	-0.904799	0.145803
BIO8 (Mean Temperature of Wettest Quarter)	-0.668216	0.131682	-0.016960	-0.697122
BIO9 (Mean Temperature of Driest Quarter)	-0.805548	0.391868	-0.314716	0.150660
BIO12 (Annual Precipitation)	0.075741	-0.932956	-0.330894	-0.086195
BIO15 (Precipitation Seasonality (Coefficient of Variation))	-0.902650	-0.383994	0.016030	0.107085
BIO17 (Precipitation of Driest Quarter)	0.896740	-0.277629	-0.163863	-0.238528
BIO19 (Precipitation of Coldest Quarter)	-0.413623	-0.829073	-0.334827	0.122444
SOLAR6 (solar radiation in June)	-0.867412	0.139048	-0.096547	0.421508
ALT (Altitude)	0.090669	-0.172910	0.376888	0.869821
Eigenvalue	5.53	2.17	1.73	1.64
% Total Variance	46.10	18.05	14.45	13.71