

Table S1. Sample size (N), geographic coordinates, altitudes, and bioclimatic variables for 12 studied *Salix triandra* populations. Bioclimatic variables: BIO1 (Annual Mean Temperature); BIO2 (Mean Diurnal Range (Mean of monthly (max temp - min temp)); BIO3 (Isothermality (BIO2/BIO7) ($\times 100$)); BIO4 (Temperature Seasonality (standard deviation $\times 100$)); BIO5 (Max Temperature of Warmest Month); BIO6 (Min Temperature of Coldest Month); BIO7 (Temperature Annual Range (BIO5-BIO6)); BIO8 (Mean Temperature of Wettest Quarter); BIO9 (Mean Temperature of Driest Quarter); BIO10 (Mean Temperature of Warmest Quarter); BIO11 (Mean Temperature of Coldest Quarter); BIO12 (Annual Precipitation); BIO13 (Precipitation of Wettest Month); BIO14 (Precipitation of Driest Month); BIO15 (Precipitation Seasonality (Coefficient of Variation)); BIO16 (Precipitation of Wettest Quarter); BIO17 (Precipitation of Driest Quarter); BIO18 (Precipitation of Warmest Quarter); BIO19 (Precipitation of Coldest Quarter). Populations: P01—Mirna; P02—Gomirje; P03—Perić most; P04—Vitunj; P05—Dobra mlin; P06—Zagorska Mrežnica north; P07—Sabljaci; P08—Zagorska Mrežnica south; P09—Lonjsko polje; P10—Narta; P11—Jelas polje; P12—Županja.

Pop. ID	N	Longitude	Latitude	Alt.	Bioclimatic variables																		
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
P01	5	13.89053	45.37717	19	13.3	9.8	34.2	694.1	27.2	-1.6	28.8	13.5	6.2	22.2	5.0	1015	119	58	21.8	327	203	236	222
P02	7	15.11166	45.34141	352	9.4	10.2	34.4	697.2	23.2	-6.3	29.5	9.7	2.1	18.0	0.8	1420	157	82	20.2	448	269	343	291
P03	5	15.17695	45.31181	345	9.6	10.2	33.9	699.5	23.4	-6.6	30.0	9.9	2.2	18.1	0.8	1383	153	80	19.7	434	265	334	285
P04	5	15.15708	45.28980	339	9.5	10.3	34.4	697.2	23.4	-6.6	30.0	9.8	2.2	18.0	0.8	1385	154	82	19.7	437	267	329	288
P05	5	15.19702	45.26899	324	9.9	10.0	33.5	703.3	23.7	-6.2	29.9	10.2	2.5	18.5	1.1	1353	151	80	19.7	427	261	323	282
P06	5	15.22006	45.21881	321	9.6	10.4	35.1	697.1	23.6	-6.1	29.7	10.0	2.4	18.2	1.0	1334	149	81	19.8	424	260	314	282
P07	5	15.23078	45.23537	316	10.0	10.0	33.4	708.1	24.0	-5.9	29.9	10.3	2.6	18.7	1.2	1334	148	80	19.7	423	258	318	280
P08	6	15.22550	45.19699	329	9.5	10.5	35.7	692.9	23.4	-6.1	29.5	9.8	2.3	18.0	1.0	1331	150	82	20.2	427	262	308	283
P09	6	16.75400	45.36571	96	11.4	9.7	31.6	728.0	25.6	-5.1	30.7	20.1	3.8	20.1	2.1	923	92	54	16.1	262	175	262	184
P10	7	16.79538	45.82716	118	10.8	9.5	31.0	754.2	24.9	-5.7	30.6	19.9	3.1	19.9	1.1	809	88	46	20.0	242	144	242	155
P11	5	17.90477	45.11005	83	11.2	10.8	33.0	786.7	26.1	-6.5	32.6	19.3	3.1	20.6	1.3	792	98	48	22.1	239	151	228	170
P12	7	18.68389	45.08913	82	11.3	9.8	32.3	771.5	25.3	-5.1	30.4	19.1	3.3	20.5	1.6	723	94	42	23.4	233	132	230	144

Table S2. Pearson correlation coefficients between altitude and 19 bioclimatic variables and scores of the first four principal components. Bioclimatic variables acronyms as in Table S1.

Variable	PC—Principal Component			
	PC1	PC2	PC3	PC4
Altitude	-0.984	0.152	0.046	-0.070
BIO1	0.864	-0.485	-0.062	0.090
BIO2	-0.446	0.210	-0.778	0.378
BIO3	-0.729	-0.375	-0.517	0.080
BIO4	0.763	0.600	-0.201	-0.078
BIO5	0.907	-0.330	-0.138	0.195
BIO6	0.552	-0.830	0.025	-0.050
BIO7	0.461	0.757	-0.230	0.347
BIO8	0.925	0.330	0.139	0.076
BIO9	0.703	-0.699	-0.003	0.112
BIO10	0.926	-0.341	-0.125	0.051
BIO11	0.552	-0.824	-0.037	0.114
BIO12	-0.972	-0.206	0.044	0.054
BIO13	-0.959	-0.222	-0.127	-0.039
BIO14	-0.978	-0.177	0.000	0.085
BIO15	0.295	-0.065	-0.752	-0.575
BIO16	-0.966	-0.243	-0.021	-0.013
BIO17	-0.958	-0.260	0.003	0.091
BIO18	-0.976	0.003	0.160	0.002
BIO19	-0.956	-0.262	-0.037	0.088
Eigenvalue	13.51	3.89	1.64	0.72
% Total Variance	67.53	19.45	8.19	3.61

Table S3. Results of the Fisher's LSD test. Leaf morphometric traits: LA—leaf area; FC—form coefficient; LL—leaf length; MLW—maximum leaf width; PMLW—leaf length, measured from the leaf base to the point of maximum leaf width; LW2—leaf blade width at 90% of leaf blade length; LA1—angle closed by the main leaf vein (the centre of leaf blade) and the line connecting the leaf blade base to a set point on the leaf margin at 10% of total leaf blade length; LA2—angle closed by the main leaf vein (the centre of leaf blade) and the line connecting the leaf blade base to a set point on the leaf margin at 25% of total leaf blade length; and PL—petiole length. Population acronyms are as in Table S1

Pop.	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11
P02	LA, LL, PMLW, LW2, LA1, LA2, PL										
P03	LA, LL, MLW, PMLW, LW2, LA1, PL	PL									
P04	LA, LL, MLW, PMLW, LW2, LA1, PL	LA, LL, MLW, PL	LA, LL, MLW, PMLW, PL								
P05	LA, LL, MLW, PMLW, LW2, LA1, LA2, PL			LA, LL, MLW, PL							
P06	LA, LL, PMLW, LW2, LA1, LA2	PL	PL	LA, LL, MLW, PL	PL						
P07	LA, LL, MLW, PMLW, LW2, LA1		PL	LL, PL		MLW					
P08	LA, LL, PMLW, LW2, LA1, LA2, PL		LA1, LA2	LA, LL, MLW, LA1, LA2, PL		PL	FC, LA1, LA2, PL				
P09	PMLW, LW2, LA1	LA, FC, LL, PMLW, LA2	LA, LL, PL	MLW, PMLW, PL	LA, FC, LL	FC, LL, LA2	LA, LL	LA, FC, LL, PMLW, LA1, LA2, PL			
P10	LA, LL, MLW, PMLW, LW2, PL	FC, MLW, LA1, LA2	PL	LA, FC, LL, PMLW, PL	FC, LL, LA1, LA2	FC, MLW, LA1, LA2	LL	PMLW, LW2, LA1, LA2, PL	LA, LL, MLW		
P11	LA, LL, MLW, PMLW, LA1, PL	LA, LL, MLW, PMLW, LW2, PL	LA, LL, MLW, PMLW, LW2, PL	LA, LL, MLW, PMLW, LW2, PL	LA, LL, MLW, PMLW, LW2, PL	LA, LL, MLW, PMLW, LW2, PL	LA, LL, MLW, PMLW, LW2, PL	LA, FC, LL, MLW, PMLW, LW2, PL	LA, LL, MLW, PMLW, LW2, LA2, PL	LA, LL, MLW, PMLW, LW2,	
P12	LA, LL, LW2, LA1	LA, FC, LL, MLW, PMLW, LA2, PL	LA, LL, MLW, PMLW, PL	LA, FC, LL, MLW, PMLW, LW2, PL	LA, FC, LL, MLW, PMLW, LA2, PL	LA, FC, LL, MLW, PMLW, PL	LA, LL, MLW, PMLW, LA1, LA2, PL	LA, FC, LL, MLW, PMLW, LA1, LA2, PL	LA, LL, MLW, PMLW, LW2, PL	LA, LL, MLW, PMLW, LW2, PL	LA, MLW, LW2, PL

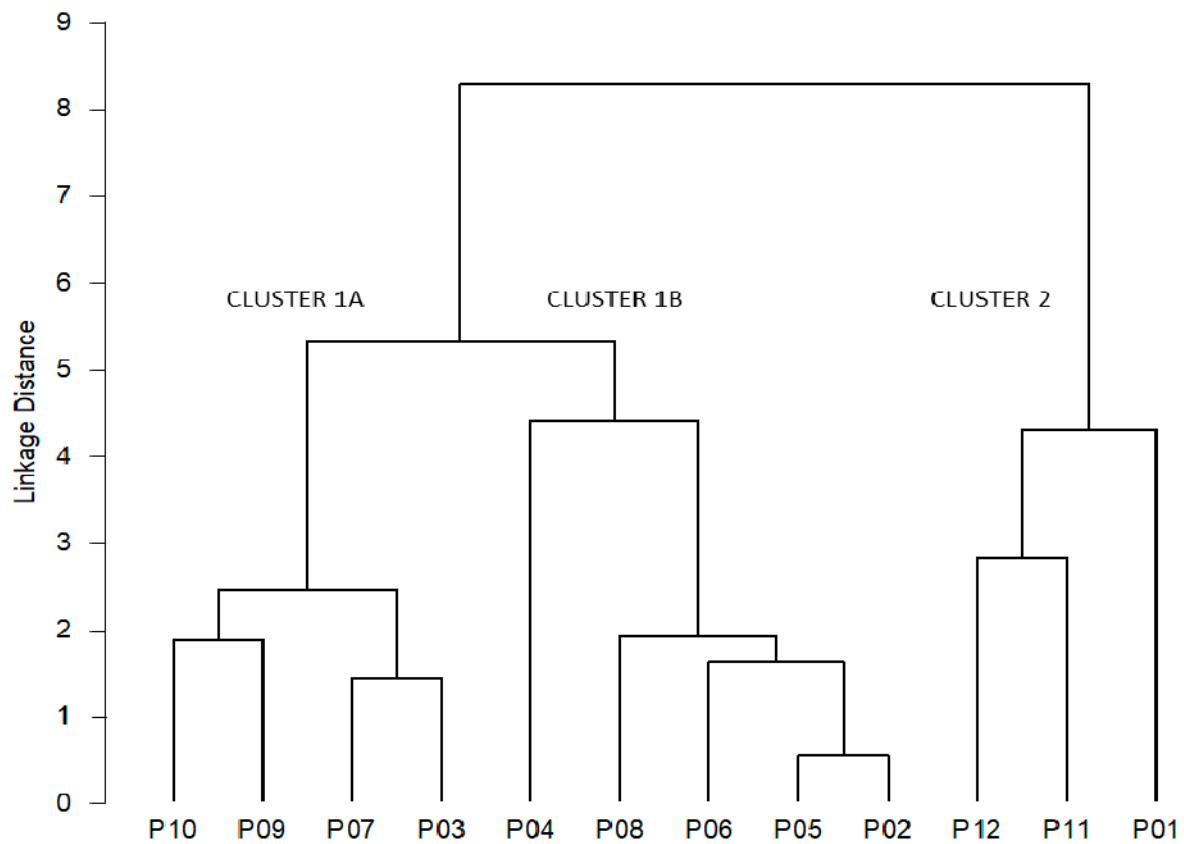


Figure S1. Tree diagram of researched 12 *Salix triandra* populations. The unweighted pair-group method with arithmetic mean (UPGMA) was used to join the clusters, and the Euclidean distance to define the distance between the studied populations. Population acronyms are as in Table S1.

Table S4. Results of the stepwise discriminant analyses for studied morphometric traits.

Trait	Wilks'	Partial	F-remove	p-value
Leaf area (LA)	0.007498	0.592386	3.002565	0.004085
Form coefficient (FC)	0.006478	0.685626	2.000820	0.049239
Leaf length (LL)	0.007433	0.597571	2.938649	0.004784
Maximal leaf width (MLW)	0.005397	0.823005	0.938441	0.513001
Position of maximal leaf width (PMLW)	0.008963	0.495532	4.442329	0.000134
Leaf width at 90% of leaf length (LW2)	0.005763	0.770708	1.298215	0.254518
Leaf angle 1 (LA1)	0.005668	0.783667	1.204589	0.309775
Leaf angle 2 (LA2)	0.007465	0.595025	2.969898	0.004428
Petiole length (PL)	0.008797	0.504926	4.278495	0.000194