

Supplementary data

Table S1. Spatial and climate data for each sampling site of the three *Caragana* species.

Species	Population Code	Latitude (°)	Longitude (°)	Altitude (m)	MAP (mm)	MAT (°C)	RH (%)
<i>C. korshinskii</i>	CK1	40.67	106.30	1039	87.2	7.8	53.4
<i>C. korshinskii</i>	CK2	40.13	106.88	1180	103.5	8.4	54.0
<i>C. korshinskii</i>	CK3	37.42	104.57	1676	162.9	8.0	54.8
<i>C. korshinskii</i>	CK4	39.12	108.03	1400	223.2	6.9	54.7
<i>C. korshinskii</i>	CK5	38.01	107.22	1224	234.3	8.3	56.7
<i>C. korshinskii</i>	CK6	38.02	107.38	1323	234.3	8.3	56.7
<i>C. korshinskii</i>	CK7	39.83	108.68	1412	249.9	6.3	54.3
<i>C. korshinskii</i>	CK8	37.82	107.45	1431	258.6	8.2	56.9
<i>C. korshinskii</i>	CK9	40.95	110.03	1440	270.1	4.7	53.9
<i>C. korshinskii</i>	CK10	36.86	105.98	1568	278.1	8.2	58.4
<i>C. korshinskii</i>	CK11	37.20	108.02	1456	341.7	7.3	57.5
<i>C. korshinskii</i>	CK12	40.95	112.22	1276	351.6	4.1	54.8
<i>C. liouana</i>	CL1	38.85	107.67	1344	225.2	7.4	55.5
<i>C. liouana</i>	CL2	38.18	107.68	1342	249.5	7.9	56.5
<i>C. liouana</i>	CL3	37.82	107.45	1431	258.6	8.2	56.9
<i>C. liouana</i>	CL4	38.88	108.35	1369	262.9	7.0	55.4
<i>C. liouana</i>	CL5	38.60	108.75	1330	292.2	7.3	55.8
<i>C. liouana</i>	CL6	37.56	107.39	1352	293.1	7.5	57.6
<i>C. liouana</i>	CL7	37.20	108.02	1456	341.7	7.3	57.5
<i>C. liouana</i>	CL8	39.22	110.15	1257	379.9	7.2	55.4
<i>C. liouana</i>	CL9	39.22	110.16	1324	379.9	7.2	55.4
<i>C. liouana</i>	CL10	38.77	110.23	1220	385.8	7.4	55.8
<i>C. liouana</i>	CL11	39.35	111.18	893	393.7	7.9	55.7
<i>C. liouana</i>	CL12	39.42	110.47	1169	395.0	6.9	55.2
<i>C. liouana</i>	CL13	39.77	112.20	1325	434.4	4.4	54.8
<i>C. microphylla</i>	CM1	42.67	116.00	1326	338.1	1.4	58.6
<i>C. microphylla</i>	CM2	42.25	116.22	1370	365.2	1.6	58.3
<i>C. microphylla</i>	CM3	41.27	112.92	1789	344.6	2.2	55.1
<i>C. microphylla</i>	CM4	42.07	114.33	1419	325.4	2.5	57.0
<i>C. microphylla</i>	CM5	41.88	115.22	1611	369.6	2.9	57.5
<i>C. microphylla</i>	CM6	39.77	112.19	1600	434.4	4.4	54.8
<i>C. microphylla</i>	CM7	39.79	112.23	1325	434.4	4.4	54.8
<i>C. microphylla</i>	CM8	42.22	118.50	759	391.8	5.4	60.5
<i>C. microphylla</i>	CM9	43.06	122.28	234	417.8	6.6	63.1
<i>C. microphylla</i>	CM10	42.62	120.88	450	369.8	6.9	62.5
<i>C. microphylla</i>	CM11	43.88	121.25	236.9	328.2	7.0	63.0
<i>C. microphylla</i>	CM12	42.75	121.92	227.4	401.6	7.1	62.8
<i>C. microphylla</i>	CM13	43.63	120.93	287.5	327.1	7.1	62.9

MAP: mean annual precipitation; MAT: mean annual temperature; RH: mean annual relative humidity.