Table S1: The environmental data of *Pinus oocarpa* trees in the Southern Mountains of Oaxaca, Mexico.

Provenance	Tree ID	elev	mat	map	gsp	mtcm	mmin	mtwm	mmax	sday	fday	ffp	dd5	gsdd5	d100	smrpb	smrsprpb	sprp	smrp	winp	adi1	ami	sdi	smi
Rosario	CDR01	917	24.0	1577	1382	22.5	15.1	25.8	33.5	4	359	354	6866	6713	6	2.12	4.77	124	591	51	4.354	0.053	4.968	4.857
Rosario	CDR02	923	24.0	1583	1387	22.4	15.1	25.7	33.4	4	359	354	6854	6701	6	2.12	4.74	125	593	51	4.330	0.052	4.942	4.831
Rosario	CDR03	917	24.1	1577	1382	22.5	15.1	25.8	33.5	4	359	354	6869	6716	6	2.12	4.77	124	591	51	4.356	0.053	4.970	4.860
Rosario	CDR04	945	23.9	1603	1403	22.3	15.0	25.6	33.2	4	359	354	6804	6652	6	2.11	4.72	127	600	54	4.245	0.051	4.850	4.741
Rosario	CDR05	910	24.1	1564	1371	22.5	15.1	25.9	33.6	4	359	354	6893	6739	6	2.13	4.81	122	587	50	4.407	0.053	5.028	4.915
Rosario	CDR06	942	23.9	1597	1399	22.3	15.0	25.6	33.3	4	359	354	6810	6658	6	2.11	4.71	127	598	52	4.264	0.052	4.868	4.759
Rosario	CDR07	934	24.0	1587	1391	22.4	15.1	25.7	33.4	4	359	354	6837	6684	6	2.12	4.76	125	595	51	4.308	0.052	4.915	4.805
Rosario	CDR08	980	23.6	1642	1435	22.1	14.9	25.2	32.8	4	360	353	6708	6575	6	2.1	4.69	131	615	57	4.085	0.050	4.675	4.582
Rosario	CDR09	1002	23.5	1674	1460	21.9	14.8	25.0	32.6	4	360	354	6655	6523	6	2.08	4.6	136	625	61	3.976	0.049	4.558	4.468
Rosario	CDR10	959	23.8	1619	1415	22.2	15.0	25.4	33.1	4	359	353	6768	6617	6	2.11	4.73	128	606	56	4.180	0.051	4.783	4.676
Rosario	CDR11	946	23.9	1605	1405	22.3	15.0	25.5	33.2	4	359	354	6798	6646	6	2.12	4.74	127	602	54	4.236	0.051	4.838	4.730
Rosario	CDR12	938	23.9	1598	1400	22.3	15.0	25.6	33.3	4	359	354	6813	6661	6	2.11	4.72	127	599	52	4.263	0.052	4.866	4.758
Rosario	CDR13	916	24.1	1577	1381	22.5	15.1	25.8	33.5	4	359	354	6872	6719	6	2.12	4.77	124	591	51	4.358	0.053	4.976	4.865
Rosario	CDR14	887	24.3	1548	1358	22.6	15.2	26.1	33.8	5	359	353	6944	6772	6	2.14	4.84	120	581	48	4.486	0.054	5.113	4.987
Rosario	CDR15	827	24.7	1500	1319	22.9	15.4	26.6	34.5	5	359	353	7087	6912	6	2.14	4.9	115	564	43	4.725	0.056	5.373	5.240
Rosario	CDR16	873	24.4	1529	1343	22.7	15.2	26.2	34.0	5	359	353	6985	6813	6	2.14	4.86	118	574	46	4.568	0.055	5.201	5.073
Rosario	CDR17	878	24.4	1534	1347	22.7	15.2	26.2	34.0	5	359	353	6977	6804	6	2.13	4.84	119	576	47	4.548	0.054	5.180	5.051
Rosario	CDR18	876	24.3	1542	1353	22.7	15.2	26.1	34.0	5	359	353	6959	6786	6	2.11	4.74	122	578	49	4.513	0.054	5.143	5.016
Rosario	CDR19	870	24.4	1528	1343	22.7	15.3	26.2	34.0	5	359	353	6985	6813	6	2.14	4.86	118	574	45	4.571	0.055	5.201	5.073
Rosario	CDR20	877	24.4	1532	1344	22.7	15.2	26.2	34.0	5	359	353	6977	6804	6	2.14	4.86	118	574	47	4.554	0.055	5.191	5.063
Rosario	CDR21	884	24.3	1545	1356	22.6	15.2	26.1	33.9	5	359	353	6944	6772	6	2.11	4.75	122	579	49	4.494	0.054	5.121	4.994
Rosario	CDR22	870	24.4	1523	1339	22.7	15.3	26.2	34.1	5	359	353	6989	6816	6	2.14	4.85	118	572	45	4.589	0.055	5.220	5.090
Rosario	CDR24	855	24.5	1509	1326	22.8	15.3	26.4	34.2	5	359	353	7030	6857	6	2.14	4.88	116	566	45	4.659	0.056	5.302	5.171
Rosario	CDR25	867	24.4	1514	1331	22.7	15.3	26.3	34.1	5	359	353	7003	6830	6	2.14	4.85	117	568	45	4.625	0.055	5.261	5.131
Rosario	CDR26	872	24.4	1518	1335	22.7	15.2	26.2	34.1	5	359	353	6989	6816	6	2.13	4.83	118	570	45	4.604	0.055	5.235	5.106
Rosario	CDR27	886	24.3	1540	1351	22.6	15.2	26.1	33.9	5	359	353	6950	6778	6	2.13	4.86	119	578	48	4.513	0.054	5.144	5.017
Rosario	CDR28	860	24.5	1509	1326	22.8	15.3	26.4	34.2	5	359	353	7024	6851	6	2.14	4.88	116	566	45	4.655	0.056	5.297	5.167
Sesteadero	SES02	843	24.3	1609	1413	22.8	15.4	26.1	33.9	5	359	353	6970	6797	6	2.11	4.79	127	608	49	4.332	0.052	4.933	4.810
Sesteadero	SES03	847	24.3	1613	1416	22.8	15.4	26.1	33.8	5	359	353	6965	6791	6	2.12	4.8	127	610	49	4.318	0.052	4.919	4.796
Sesteadero	SES04	1087	22.2	1932	1672	20.8	14.5	23.5	30.7	4	361	357	6219	6110	6	2	4.3	169	726	85	3.219	0.041	3.719	3.654
Sesteadero	SES06	1034	22.7	1841	1601	21.2	14.7	24.1	31.5	4	360	356	6395	6268	6	2.03	4.39	158	694	74	3.474	0.043	3.994	3.915
Sesteadero	SES07	847	24.3	1617	1420	22.8	15.4	26.0	33.8	5	359	353	6952	6779	6	2.12	4.82	127	612	49	4.299	0.052	4.896	4.774
Sesteadero	SES11	826	24.5	1599	1403	22.9	15.5	26.2	34.1	5	359	353	7012	6838	6	2.12	4.83	125	604	49	4.39	0.0524	4.9979	4.8738
San Pedro	SDC30	1114	21.9	1416	1212	20.6	13.5	22.9	29.7	5	361	355	6093	5970	7	1.66	2.68	176	471	60	4.303	0.055	5.027	4.926

San Pedro	SDC31	1147	21.6	1422	1219	20.3	13.2	22.7	29.4	5	361	357	6004	5883	7	1.66	2.66	178	473	60	4.222	0.054	4.925	4.826
San Pedro	SDC32	1133	21.7	1420	1217	20.4	13.3	22.8	29.5	5	361	358	6039	5918	7	1.66	2.67	177	473	60	4.253	0.055	4.962	4.863
San Pedro	SDC33	1117	21.9	1411	1209	20.5	13.4	22.9	29.7	5	361	355	6084	5961	7	1.66	2.67	176	470	59	4.312	0.055	5.032	4.931
San Pedro	SDC34	1147	21.6	1425	1222	20.3	13.2	22.7	29.4	5	361	357	6004	5883	7	1.66	2.65	179	474	60	4.213	0.054	4.913	4.814
San Pedro	SDC35	1127	21.8	1421	1217	20.4	13.4	22.8	29.5	5	361	357	6051	5929	7	1.66	2.67	177	473	60	4.258	0.055	4.972	4.872
San Pedro	SDC36	1123	21.8	1421	1217	20.5	13.4	22.9	29.6	5	361	357	6063	5941	7	1.66	2.67	177	473	60	4.267	0.055	4.982	4.882
San Pedro	SDC37	1126	21.8	1422	1218	20.4	13.4	22.8	29.5	5	361	357	6054	5932	7	1.67	2.67	177	473	60	4.257	0.055	4.970	4.870
San Pedro	SDC38	1108	21.9	1421	1216	20.6	13.5	23.0	29.7	5	361	355	6102	5978	7	1.67	2.69	176	473	60	4.294	0.055	5.018	4.916
San Pedro	SDC39	1127	21.8	1425	1221	20.4	13.4	22.8	29.5	5	361	357	6048	5926	7	1.67	2.68	177	475	60	4.244	0.055	4.953	4.853
San Pedro	SDC40	1108	21.9	1420	1215	20.6	13.5	23.0	29.7	5	361	355	6105	5981	7	1.67	2.69	176	473	60	4.299	0.055	5.025	4.923
San Pedro	SDC41	1129	21.8	1419	1216	20.4	13.4	22.8	29.5	5	361	357	6045	5923	7	1.66	2.67	177	473	60	4.260	0.055	4.971	4.871
San Pedro	SDC42	1084	22.1	1409	1205	20.8	13.7	23.2	29.9	5	360	354	6170	6030	6	1.67	2.7	174	470	60	4.379	0.056	5.120	5.004
San Pedro	SDC43	1136	21.7	1419	1216	20.4	13.3	22.8	29.5	5	361	357	6030	5909	7	1.66	2.67	177	473	60	4.249	0.055	4.959	4.859
San Pedro	SDC44	1203	21.2	1431	1227	19.8	12.8	22.3	29.0	5	362	359	5843	5741	7	1.64	2.6	182	474	62	4.083	0.053	4.762	4.679
San Pedro	SDC45	1200	21.2	1431	1227	19.8	12.8	22.3	29.0	5	362	359	5851	5749	7	1.64	2.6	182	474	62	4.089	0.053	4.769	4.685
San Pedro	SDC46	1114	21.9	1415	1211	20.6	13.5	22.9	29.7	5	361	355	6093	5970	7	1.66	2.68	176	471	60	4.306	0.055	5.031	4.930
San Pedro	SDC47	1093	22.0	1409	1205	20.7	13.6	23.1	29.8	5	361	355	6152	6028	6	1.67	2.7	174	470	60	4.366	0.056	5.105	5.002
El Tizne	SDC11	1301	20.5	1343	1160	18.8	11.7	21.8	28.6	3	363	363	5602	5547	7	1.57	2.45	182	445	57	4.171	0.056	4.829	4.782
El Tizne	SDC12	1284	20.6	1344	1159	19.0	11.9	21.9	28.7	3	363	363	5650	5594	7	1.58	2.46	181	445	58	4.204	0.056	4.875	4.827
El Tizne	SDC13	1254	20.9	1351	1163	19.3	12.1	22.1	28.9	3	363	363	5736	5680	7	1.58	2.47	181	447	58	4.246	0.056	4.932	4.884
El Tizne	SDC14	1290	20.6	1345	1160	18.9	11.8	21.8	28.7	3	363	363	5632	5576	7	1.57	2.45	182	445	58	4.187	0.056	4.855	4.807
El Tizne	SDC15	1288	20.6	1350	1163	19.0	11.9	21.8	28.7	3	363	363	5635	5579	7	1.57	2.45	182	446	58	4.174	0.056	4.845	4.797
El Tizne	SDC16	1295	20.5	1346	1160	18.9	11.8	21.8	28.7	3	363	363	5614	5559	7	1.57	2.45	182	445	58	4.171	0.056	4.840	4.792
El Tizne	SDC17	1295	20.5	1354	1167	18.9	11.8	21.8	28.6	3	363	363	5611	5556	7	1.58	2.45	183	448	58	4.144	0.055	4.808	4.761
El Tizne	SDC18	1294	20.5	1352	1165	18.9	11.8	21.8	28.6	3	363	363	5614	5559	7	1.58	2.46	182	447	58	4.152	0.055	4.819	4.772
Las Tejas	SDC01	1284	20.7	1321	1141	19.0	11.8	22.0	28.9	3	363	363	5665	5609	7	1.56	2.43	180	438	56	4.288	0.057	4.965	4.916
Las Tejas	SDC02	1355	20.1	1310	1137	18.4	11.3	21.5	28.4	3	364	364	5468	5428	8	1.56	2.4	181	434	55	4.174	0.056	4.809	4.774
Las Tejas	SDC03	1326	20.4	1315	1139	18.6	11.5	21.6	28.6	3	363	363	5548	5494	7	1.56	2.42	180	436	55	4.219	0.057	4.871	4.824
Las Tejas	SDC04	1269	20.8	1324	1142	19.1	11.9	22.1	29.0	3	363	363	5704	5648	7	1.57	2.43	180	438	56	4.308	0.057	4.995	4.946
Las Tejas	SDC05	1294	20.6	1324	1144	18.9	11.7	21.9	28.8	3	363	363	5629	5574	7	1.57	2.44	180	439	56	4.252	0.057	4.920	4.872
Las Tejas	SDC06	1305	20.5	1326	1146	18.8	11.7	21.8	28.7	3	363	363	5599	5545	7	1.56	2.43	181	439	56	4.222	0.056	4.886	4.839
Las Tejas	SDC07	1290	20.6	1331	1150	18.9	11.8	21.9	28.8	3	363	363	5638	5583	7	1.57	2.44	181	441	56	4.236	0.056	4.903	4.855
Las Tejas	SDC08	1301	20.5	1330	1150	18.8	11.7	21.8	28.7	3	363	363	5605	5550	7	1.57	2.44	181	441	56	4.214	0.056	4.874	4.826
Las Tejas	SDC09	1312	20.4	1330	1150	18.8	11.6	21.7	28.6	3	363	363	5578	5523	7	1.57	2.44	181	441	56	4.194	0.056	4.850	4.803
Las Tejas	SDC10	1282	20.7	1336	1153	19.0	11.9	21.9	28.8	3	363	363	5662	5606	7	1.57	2.45	181	443	57	4.238	0.056	4.911	4.862
El Nanche	SDC19	1314	20.5	1304	1129	18.7	11.5	21.8	28.7	3	363	363	5590	5536	7	1.55	2.41	179	432	55	4.287	0.057	4.951	4.903
El Nanche	SDC20	1299	20.6	1305	1129	18.9	11.7	21.9	28.8	3	363	363	5629	5574	7	1.55	2.41	179	432	55	4.313	0.057	4.986	4.937

El Nanche	SDC21	1290	20.7	1304	1127	19.0	11.7	22.0	28.9	3	363	363	5665	5609	7	1.56	2.41	179	432	55	4.344	0.058	5.027	4.977
El Nanche	SDC22	1312	20.5	1300	1125	18.8	11.5	21.8	28.8	3	363	363	5599	5544	7	1.55	2.4	179	430	55	4.307	0.058	4.977	4.928
El Nanche	SDC23	1321	20.4	1297	1124	18.7	11.5	21.8	28.7	3	363	363	5575	5521	7	1.55	2.4	179	430	54	4.298	0.058	4.960	4.912
El Nanche	SDC24	1347	20.2	1286	1118	18.5	11.2	21.6	28.6	3	363	364	5507	5453	8	1.55	2.39	179	427	52	4.282	0.058	4.926	4.877
El Nanche	SDC25	1390	19.9	1278	1114	18.1	10.9	21.3	28.3	3	363	364	5391	5338	8	1.54	2.37	179	425	52	4.218	0.057	4.839	4.792
El Nanche	SDC26	1335	20.3	1290	1121	18.6	11.3	21.7	28.6	3	363	363	5537	5483	7	1.55	2.39	179	428	52	4.292	0.058	4.939	4.891
El Nanche	SDC27	1330	20.4	1296	1124	18.6	11.4	21.7	28.7	3	363	363	5549	5495	7	1.55	2.4	179	430	54	4.282	0.057	4.937	4.889
El Nanche	SDC28	1335	20.3	1304	1130	18.6	11.4	21.6	28.6	3	363	363	5531	5477	7	1.56	2.41	179	432	55	4.242	0.057	4.895	4.847
El Nanche	SDC29	1298	20.6	1313	1136	18.9	11.7	21.9	28.8	3	363	363	5629	5574	7	1.56	2.44	179	436	55	4.287	0.057	4.955	4.907

mat: Mean annual temperature degrees C, map: Mean annual precipitation, gsp: Growing season precipitation, April to September, mtcm: Mean temperature in the coldest month degrees C, mmin: Mean minimum temperature in the coldest month degrees C, mtwm: Mean temperature in the warmest month degrees C, mmax: Mean maximum temperature in the warmest month degrees C, sday: Julian date of the last freezing date of spring, fday: Julian date of the first freezing date of autumn, ffp: Length of the frost-free period, dd5: Degree-days >5 degrees C (based on mean monthly temperature), gsdd5: Degree-days >5 degrees C accumulating within the frost-free period, d100: Julian date the sum of degree-days >5 degrees C reaches 100, dd0: Degree-days <0 degrees C (based on mean monthly temperature), mmindd0: Degree-days <0 degrees C (based on mean minimum monthly temperature), smrpb: Summer precipitation balance: (jul+aug+sep)/(apr+may+jun), smrsprpb: Summer/Spring precipitation balance: (jul+aug)/(apr+may), sprp: Spring precipitation (apr+may), smrp: Summer precipitation (jul+aug), winp: Winter precipitation (nov+dec+jan+feb), adi: Annual dryness index (dd5/map), ami: annual moisture index (qrt(dd5)/map), sdi: Summer dryness index (dd5/gsp), smi: summer moisture index (gsdd5/gsp).

Table S2. General average, minimum and maximum values of emergence parameters and number of cotyledons of superior resin trees of *Pinus oocarpa*, classified into high values (statistically equal to the highest value), intermediate and low (statistically equal to the lowest value).

Emergence parameters	Mean	Trees with higher values		Trees with intermediate values		Trees with low values	
		Min., Max.	Superior trees	Min., Max.	Superior trees	Min., Max.	Superior trees
Emergency capacity (%)	56.81	76.9, 90.00	SDC41, SDC43, SDC45, SDC33, SDC42, SDC47, SDC46, SDC44, SDC24, SDC18, SDC30, SDC32, SDC07, CR04, SDC10, SDC31, SDC40, CR06, SDC16, SDC17, SDC22, SDC19, SDC11, SDC21, SDC03, SDC14, SDC13, SDC28	52.5, 6.25	SDC02, SDC08, SDC09, SDC05, CR14, SDC23, SDC38, SDC29, SDC12, SDC36, SDC35, CR19, SDC27, SDC20, SDC04, SDC01, SDC34, SDC39, CR16, CR03, SDC25, CR18, SDC37, SDC15, CR13, CR26, CR08, CR17, ES03, CR21, ES06, ES11	21.25, 50.30	ES07, CR28, CR11, CR25, CR22, CR10, SDC06, CR01, CR02, CR15, CR27, SDC26, CR09, CR12, CR04, CR20, CR24, CR07, ES02
Peak emergency value	3.74	5.66, 4.59	SDC33, SDC47, SDC13, SDC46, SDC45, CR06, SDC41, SDC11, SDC10, CR04, SDC24, SDC12, SDC18, SDC42, SDC07, SDC30, SDC19, SDC31, SDC02, SDC08, SDC44, SDC21, SDC43, SDC40, SDC17, SDC14	2.74, 4.51	SDC05, SDC08, SDC01, SDC16, SDC23, SDC03, SDC22, SDC38, SDC35, SDC36, CR19, SDC32, SDC20, SDC15, SDC09, SDC04, SDC27, CR08, SDC29, CR03, SDC25, CR13, CR14, SDC37, SDC39, CR17, SDC34, CR16, CR26, CR11, CR18, ES03, ES07, CR21, CR28	1.19, 2.62	CR22, CR02, CR06, CR01, CR12, CR05, CR10, CR11, SDC06, SDC26, CR27, CR25, CR15, CR09, CR24, CR20, CR07, ES04, ES02
Average daily emergency	3.38	4.07, 5.54	SDC13, SDC46, SDC47, SDC30, SDC41, SDC11, SDC12, SDC21, SDC40, SDC45, SDC31, CR06, SDC42, SDC02, SDC08, SDC23, SDC10, SDC24, SDC43, SDC01, CR04, CR19, SDC05, SDC36, SDC07, SDC44, SDC28, SDC18	2.54, 4.04	SDC14, SDC19, SDC22, SDC16, SDC04, SDC33, SDC35, SDC27, SDC17, SDC09, SDC20, CR08, SDC15, SDC03, SDC38, SDC25, CR13, CR03, CR17, SDC32, SDC29, SDC34, ES07, SDC39, CR14, CR18, CR21, ES11, CR26, SDC37, ES03, CR16, CR28, CR22	1.16,2.40	CR12, CR02, CR01, CR10, SDC06, SDC26, CR27, CR11, CR25, CR09, ES06, CR15, CR05, CR24, CR07, CR20, ES02, ES04
Emergency value	14.08	19.89, 31.49	SDC13, SDC47, SDC46, SDC41, SDC11, SDC30, SDC45, SDC12, CR06, SDC42, SDC10, SDC31, CR04, SDC21, SDC24, SDC40, SDC02, SDC07, SDC08, SDC18, SDC33, SDC43, SDC05, SDC19, SDC44, SDC01, SDC28, SDC23, SDC14	8.06, 19.66	SDC36, CR19, SDC22, SDC17, SDC35, SDC04, SDC03, SDC20, SDC15, SDC27, SDC38, SDC09, CR08, SDC32, SDC25, CR13, CR03, SDC29, CR17, SDC34, CR14, SDC39, ES07, CR18, ES11, CR26, SDC37, CR21, ES03, CR16	1.65, 7.09	CR22, CR28, CR02, CR01, CR12, CR10, SDC06, SDC26, CR27, ES06, CR11, CR05, CR25, CR09, CR15, CR24, CR07, CR20, CR04, ES02

Emergency energy (day)	14.43	12.00, 13.50	SDC13,SDC12, SDC10, SDC15, SDC33, SDC38, CR08, SDC05, SDC01, CR03, SDC46, SDC18, SDC02, CR04, SDC31, CR12, SDC07, SDC03	13.75, 15.67	SDC17, SDC19, SDC08, SDC21, CR06, CR02, CR07, SDC20, SDC47, SDC09, SDC28, SDC14, SDC23, SDC04, SDC35, ES07, SDC26, SDC16, SDC24, SDC30, SDC22, SDC42, CR19, SDC29, SDC45, SDC25, SDC41, SDC43, SDC32, SDC40, CR27, SDC44, SDC36, CR17, SDC39, ES03, CR09, CR21, CR13, SDC27, CR05, CR16, ES11, CR18, CR26, CR20	15.75, 17.5	SCD34, CR22, CR10, ES02, SDC06, CR01, CR24, CR14, CR28, ES04, CR11, CR15, SDC37, ES06, CR25
Number of cotiledons	5.9	6.14, 6.77	SDC03, SDC32, CR10, SDC46, ES04, SDC19, CR21, SDC02, SDC33, ES07, CR15, SDC29, CR20	5.67, 6.12	R18, CR17, SDC25, SDC47, SDC27, ES02, SDC18, CR03, SDC39, SDC01, SDC42, SDC45, CR06, CR04, CR08, SDC21, CR12, SDC14, CR28, SDC16, CR25, CR13, CR017, SDC2, ES03, SDC28, SDC12, SDC35, CR24, SDC23, ES06, SDC17, SDC13, SDC04, SDC30, SDC24, CR27, SDC36, CR22, CR19, CR26, SDC31, SDC07, SDC43, CR07, CR14, CR01, SDC22, SDC34, SDC11	5.13, 5.66	CR09, SDC40, ES11, SDC10, CR16, SDC15, SDC44, SDC38, CR11, SDC41, SDC09, SDC20, CR05, SDC05, SDC26, SDC08, SDC06, SDC37

Table S3. Spearman correlation coefficients of elevation and environmental variables *vs*. emergence parameters and number of cotyledons of Pinus oocarpa trees in the Southern Mountains of Oaxaca, Mexico.

	Emergency capacity	**Peak emergency value**	**Average daily emergency**	**Emergency value**	**Emergency energy**	**Number of cotiledons**
elev	0.53	0.53	0.52	0.53	-0.50	-0.13
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.239
mat	-0.53	-0.53	-0.52	-0.54	0.52	0.13
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.2494
map	-0.52	-0.54	-0.55	-0.55	0.44	0.11
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.3164
gsp	-0.52	-0.53	-0.54	-0.55	0.44	0.12
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.3069
mtcm	-0.53	-0.54	-0.52	-0.54	0.51	0.14
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.2216
mmin	-0.53	-0.54	-0.52	-0.54	0.51	0.13
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.2447
mtwm	-0.53	-0.54	-0.52	-0.54	0.53	0.13
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.2608
mmax	-0.53	-0.56	-0.53	-0.55	0.55	0.14
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.229
sday	-0.13	-0.25	-0.24	-0.25	0.50	0.10
	0.2449	0.0238	0.0324	0.0266	<0.0001	0.3911
fday	0.53	0.57	0.56	0.57	-0.54	-0.14
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.2306
ffp	0.51	0.54	0.53	0.54	-0.52	-0.16
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.158
dd5	-0.53	-0.54	-0.52	-0.54	0.52	0.13
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.2654
gsdd5	-0.53	-0.54	-0.52	-0.54	0.52	0.13
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.2661
d100	0.61	0.60	0.60	0.61	-0.46	-0.17
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.1368
smrpb	-0.52	-0.54	-0.54	-0.55	0.52	0.07
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.5316
smrsprpb	-0.52	-0.53	-0.53	-0.54	0.52	0.11
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.3173
sprp	0.57	0.60	0.58	0.60	-0.56	-0.18
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.1184
smrp	-0.52	-0.53	-0.54	-0.55	0.44	0.11
	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.3115
winp	0.55	0.50	0.47	0.48	-0.29	-0.11
	<0.0001	<0.0001	<0.0001	<0.0001	0.0093	0.333
adi	-0.32	-0.33	-0.29	-0.31	0.34	0.09
	0.0038	0.0029	0.009	0.0058	0.0019	0.4394
ami	0.35	0.38	0.41	0.41	-0.32	-0.08
	0.0013	0.0004	0.0002	0.0002	0.0042	0.4806
sdi	-0.13	-0.17	-0.13	-0.14	0.32	0.02
	0.2418	0.1261	0.2527	0.2004	0.0043	0.8518
smi	-0.06	-0.08	-0.03	-0.05	0.22	0.00
	0.6169	0.498	0.765	0.6807	0.0485	0.9914

elvev: elevation m asl, mat: Mean annual temperature degrees C, map: Mean annual precipitation, gsp: Growing season precipitation, April to September, mtcm: Mean temperature in the coldest month degrees C, mmin: Mean minimum temperature in the coldest month degrees C, mtwm: Mean temperature in the warmest month degrees C, mmax: Mean maximum temperature in the warmest month degrees C, sday: Julian date of the last freezing date of spring, fday: Julian date of the first freezing date of autumn, ffp: Length of the frost-free period, dd5: Degree-days >5 degrees C (based on mean monthly temperature), gsdd5:Degree-days >5 degrees C accumulating within the frost-free period, d100: Julian date the sum of degree-days >5 degrees C reaches 100, dd0: Degree-days <0 degrees C (based on mean monthly temperature), mmindd0: Degree-days <0 degrees C (based on mean minimum monthly temperature), smrpb: Summer precipitation balance: (jul+aug+sep)/(apr+may+jun), smrsprpb: Summer/Spring precipitation balance: (jul+aug)/(apr+may), sprp: Spring precipitation (apr+may), smrp: Summer precipitation (jul+aug), winp: Winter precipitation (nov+dec+jan+feb), adi: Annual dryness index (dd5/map), ami: annual moisture index (qrt(dd5)/map), sdi: Summer dryness index (dd5/gsp), smi: summer moisture index (gsdd5/gsp).