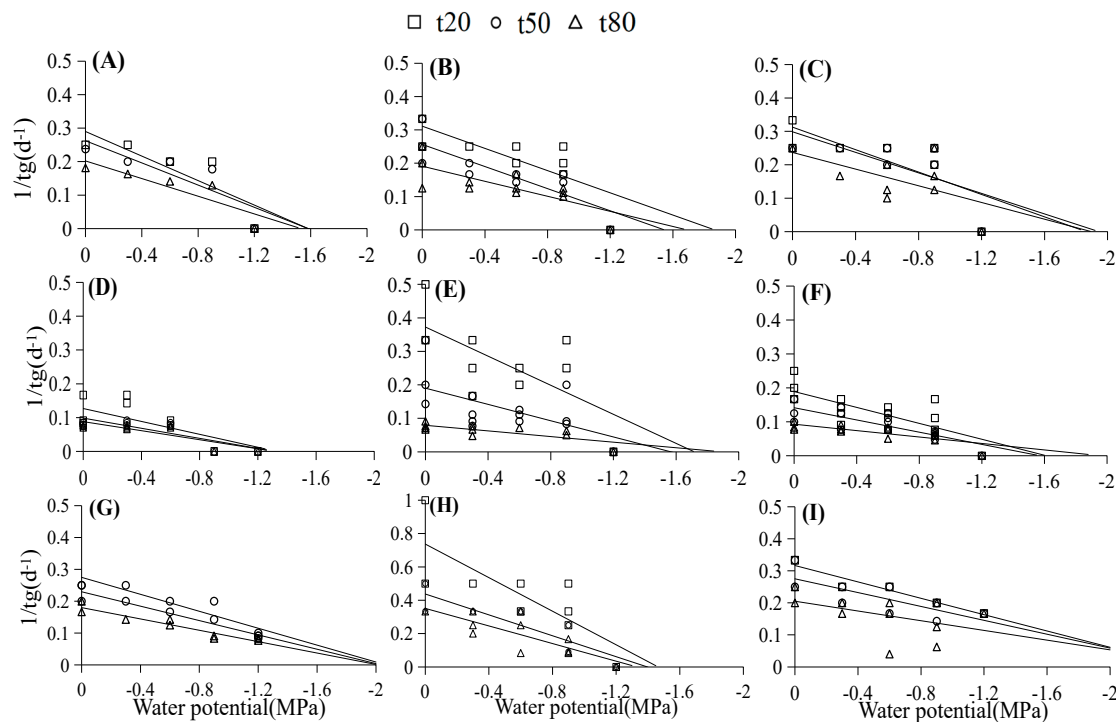


# 1 Supplementary Figures and Tables

## 1.1 Supplementary Figures



**Supplementary Figure S1.** Linear regression of germination rate (1/tg) of nine species (different percentiles) and water potentials; (A) *Artemisia scoparia*, (B) *Artemisia giraldii*, (C) *Artemisia sacrorum*, (D) *Periploca sepium*, (E) *Bothriochloa ischaemum*, (F) *Patrinia scabiosifolia* (G) *Linum usitatissimum*, (H) *Lespedeza davurica*, (I) *Sophora davidii*.

## 1.2 Supplementary Tables

**Supplementary Table S1** Estimation of cardinal temperatures for seed germination of nine species at 0MPa, using a linear regression analysis at different percentiles (20-80%).

Species	percentiles	$T_b(^{\circ}\text{C})$	$T_o(^{\circ}\text{C})$	$T_c(^{\circ}\text{C})$	Species	percentiles	$T_b(^{\circ}\text{C})$	$T_o(^{\circ}\text{C})$	$T_c(^{\circ}\text{C})$	Species	percentiles	$T_b(^{\circ}\text{C})$	$T_o(^{\circ}\text{C})$	$T_c(^{\circ}\text{C})$
<i>Artemisia scoparia</i>	20	6.23	30.76	45.05	<i>Artemisia giraldii</i>	20	3.35	29.58	39.52	<i>Artemisia sacrorum</i>	20	3.40	29.81	39.52
	30	5.86	31.45	45.05		30	3.90	29.38	40.15		30	2.35	29.15	40.15
	40	5.43	30.52	46.67		40	4.08	29.71	40.15		40	2.43	29.35	40.15

	50	6.14	30.61	46.67		50	2.80	29.01	39.76		50	1.85	29.12	39.76
	60	6.36	31.30	46.67		60	2.26	29.42	43.05		60	1.57	29.25	38.07
	70	4.70	31.66	49.90		70	2.98	29.27	38.24		70	1.31	28.98	38.24
	80	4.54	31.16	47.14		80	2.52	27.32	40.85		80	1.09	29.96	40.30
Periploca sepium	20	6.65	32.86	42.54		20	6.67	30.27	40.45		20	3.53	29.20	38.64
	30	4.51	34.00	49.90		30	7.46	31.85	40.00		30	3.94	29.92	38.64
	40	4.64	34.51	49.90	Bothrioch	40	7.17	32.51	38.48		40	2.89	31.27	38.64
	50	3.63	36.10	49.90	loa	50	8.44	31.68	39.89	Patrinia	50	3.39	30.79	38.63
	60	3.39	36.73	49.90	ischaemu	60	8.18	31.59	39.08	scabiosaef	60	4.05	31.20	38.63
	70	3.83	34.82	46.00	m	70	8.93	33.87	41.60	olia	70	1.37	30.44	39.75
	80	1.73	34.56	49.15		80	9.67	32.52	41.73		80	-7.46	30.46	41.41
Linum usitatissm um	20	4.34	29.98	40.29		20	6.44	19.26	41.85		20	6.35	24.05	42.11
	30	4.62	29.82	40.04		30	6.93	16.75	48.03		30	6.66	24.05	40.62
	40	4.88	29.72	39.86		40	6.94	15.65	47.68		40	6.64	24.18	40.55
	50	4.67	29.71	39.86	Lespedeza	50	6.96	15.67	47.48	Sophora	50	6.46	24.09	40.55
	60	4.71	30.11	39.73	davurica	60	7.37	15.28	46.43	davidii	60	6.47	24.28	40.37
	70	5.28	30.20	39.55		70	7.24	15.17	52.40		70	6.25	24.33	40.37
	80	3.86	29.12	40.22		80	6.50	15.81	61.96		80	6.11	24.26	40.68

**Supplementary Table S2** Estimation of cardinal water potential for seed germination of nine species at 20°C, using a linear regression analysis at different percentiles (20-80%).

Species	percentiles	$\Psi_b$ (MPa)	Species	percentiles	$\Psi_b$ (MPa)	Species	percentiles	$\Psi_b$ (MPa)
<i>Artemisia scoparia</i>	20	-1.58	<i>Artemisia giraldii</i>	20	-1.87	<i>Artemisia sacrorum</i>	20	-1.86
	50	-1.58		50	-1.55		50	-1.95
	80	-1.53		80	-1.69		80	-1.90
<i>Periploca sepium</i>	20	-1.33	<i>Bothriochloa ischaemum</i>	20	-1.72	<i>Patrinia scabiosaefolia</i>	20	-1.61
	50	-1.32		50	-1.57		50	-1.57
	80	-1.32		80	-1.89		80	-1.96
<i>Linum usitatissimum</i>	20	-2.07	<i>Lespedeza davurica</i>	20	-1.46	<i>Sophora davidii</i>	20	-2.48
	50	-2.04		50	-1.40		50	-2.55
	80	-2.02		80	-1.33		80	-2.71