

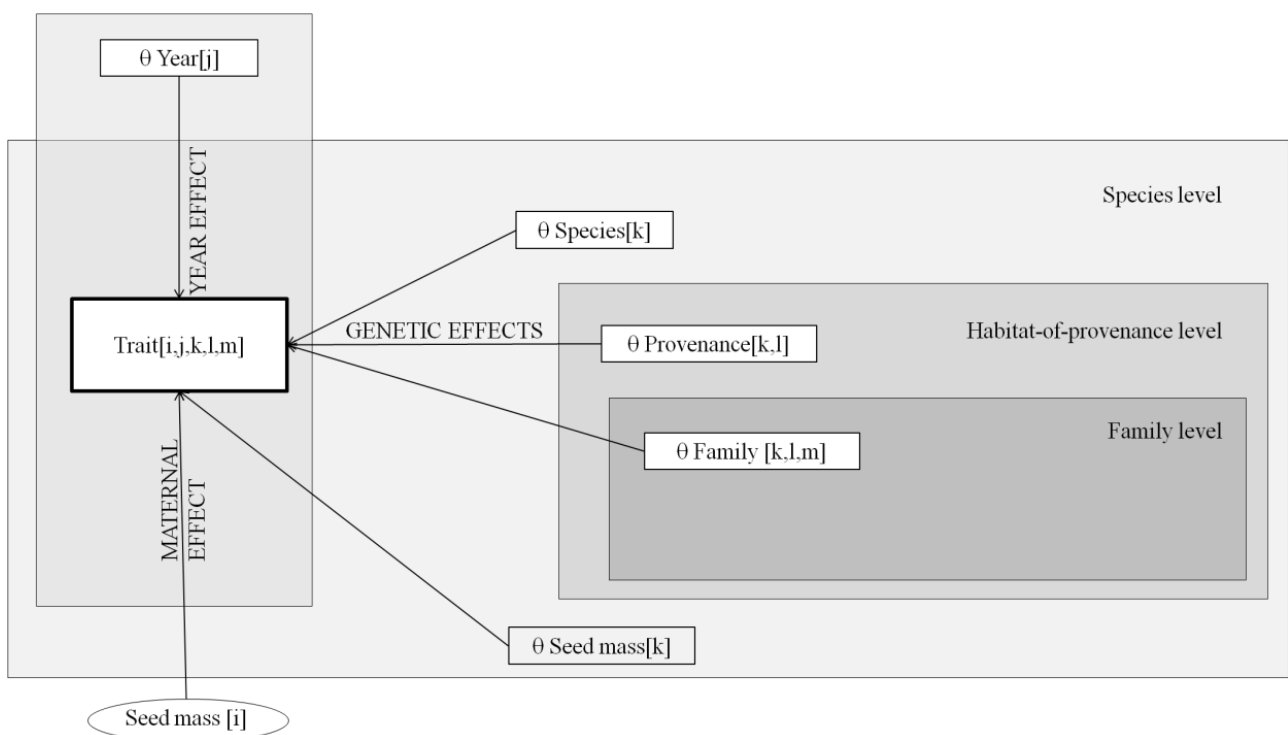
SUPPLEMENTARY DATA

METHOD S1. Design of the incomplete randomized block experiments

Each block was made of sixteen seedlings from four different maternal families (four seedlings per family). To obtain this design, we proceeded as follows. Each block was randomly assigned to a given position in the glasshouse. Next, sets of four families were randomly assigned to blocks, then seedlings from each family were assigned to each block containing that family, and finally the sixteen seedlings belonging to a block were randomly assigned positions within the block. Seedlings were submitted to daily and seasonal natural variations of irradiance. They were maintained in non-limiting water conditions (i.e., soil water content close to field capacity, i.e. around $0.20 \text{ m}^3 \text{ m}^{-3}$) throughout the experiment (i.e. 24 months) by watering the pots every second or third morning. Homogeneity of the environmental conditions in the glasshouse (i.e. air temperature, air humidity, radiation) was tested twice a year over a 3 week's period. Air temperature and humidity (average $28.6 \pm 2.2 \text{ }^\circ\text{C}$ and $72.7 \pm 8.6\%$, respectively) were recorded at three different locations in the glasshouse using a temperature and relative humidity probe (HMP45, Yaisala, Helsinki, Finland) connected to a CR10X datalogger (Campbell Scientific Inc., Logan, UT, USA). Photosynthetic photon flux density (PPFD) was measured above each block using a linear PAR ceptometer (AccuPar, Decagon Devices, Pullman, WA, USA) and compared with incident photosynthetic photon flux density outside the glasshouse. This allowed calculating a value of relative irradiance for each block and an average relative irradiance in the glasshouse, which was about $14.3 \pm 2.3 \%$ over the study period. To avoid any competition for light among the plants, pots were occasionally turned or their position swapped within the block if necessary to minimise vertical overlap of leaves between seedlings.

METHOD 2. Bayesian model of phenotypic value decomposition

Phenotypic differences among species, habitats-of-provenance and maternal families were detected using a hierarchical linear model including seed mass effects and the three levels of genetic divergence (species, provenance, and families), as shown in the 'conceptual model' figure:



For all individuals, i :

$$Y_{ijklm} \sim N(\text{mean}_{ijklm}, \tau_{\text{res}})$$

$$\text{mean}_{ijklm} = \mu + \alpha_j + \beta_k + \gamma_{kl} + \tau_{klm} + (\varphi_k \times \text{Seed mass}_i)$$

Y corresponds to the individual value for the phenotypic character. τ_{res} corresponds to residual precision (1 / “within-groups” variance) of phenotypic variations. The term α corresponds to the effect of the different years of seed sampling and culture, β corresponds to species effect, γ corresponds to provenance effect within each species (we allow each species to respond differently to soil provenance), and τ corresponds to the effect of maternal family (in terms of mother tree identity) within each species and soil of provenance. Then, the term φ is the regression coefficient between trait value and seed mass. We also defined one parameter per species in order to allow for divergent effects of seed mass variation in the two species. This coefficient may be null, suggesting that intra-specific variations in seed mass does not affect phenotypic variations.

Prior definition:

All parameters were sorted using non-informative priors:

$$\tau_{\text{res}} \sim \text{Gamma}(0.0001, 0.0001)$$

$$\mu \sim N(0.00001, 0.00001)$$

$$\text{for all year } j : \alpha_j \sim N(0.00001, 0.00001)$$

$$\text{for all species } k : \beta_k \sim N(0.00001, 0.00001)$$

$$\text{for all provenance } l \text{ (within each species } k): \gamma_{kl} \sim N(0.00001, 0.00001)$$

$$\text{for all maternal families } m \text{ (within each provenance } l \text{ and species } k): \tau_{klm} \sim N(0.00001, 0.00001)$$

$$\text{for all species } k : \varphi_k \sim N(0.00001, 0.00001)$$

The model was made identifiable by defining constraint $\sum \alpha_j = 0$ for each factor. The model was computed using 1 000 000 iterations with a burning of 100 000 and a thinning of 500. Parameters were estimates with 95% credible interval.

A parameter with 95% credible interval not overlapping 0 indicates that the phenotypic value of the group diverges to the phenotypic mean with a probability of 95%. Two groups identified by the same component (e.g. two habitats within the same species, for a given trait) are considered as different if their 95% credible intervals do not overlap.

METHOD 3. Estimation of heritability (h^2) with a Bayesian two-ways analysis of variance

Heritability was estimated at intra-specific level by estimation of ‘among-family’ exact precision.

For all individuals,

$$\text{Trait}_{ijm} \sim N(\text{mean}_{ijm}, \tau_{\text{res}})$$

$$\text{mean}_{ijm} = \mu + \alpha_j + \tau_m$$

For all years of sampling and culture,

$$\alpha_j \sim N(0, \tau_{\text{year}})$$

For all maternal families,

$$\tau_m \sim N(0, \tau_{\text{progeny}})$$

Prior definition

$$\mu \sim N(0.00001, 0.00001)$$

$$\tau_{\text{res}} \sim \text{Gamma}(0.0001, 0.0001)$$

$$\tau_{\text{years}} \sim \text{Gamma}(0.0001, 0.0001)$$

$$\tau_{\text{progeny}} \sim \text{Gamma}(0.0001, 0.0001)$$

We computed $\sigma_M^2 \sigma_P^2$ where σ_M^2 is the genetic variance “among groups” (inverse of “among groups” precision τ_M), σ_P^2 the total phenotypic variance (sum of the inverse of “among families” precision τ_M plus the inverse of “among years” precision τ_{years} , plus the inverse of residual precision τ_{res}).

The model was computed using 500 000 iterations with a burning of 2000 and a thinning from 20 to 50 depending on the different traits.

TABLE S1. Sampling size. N_{progeny} indicates the number of mother trees (maternal families) and $n_{\text{seedlings}}$ the number of seedlings used in the analysis.

	Provenance	N_{progeny}	$n_{\text{seedlings}}$ (18 months)	$n_{\text{seedlings}}$ (24 months)
<i>E. falcata</i>	Bottomland	10	425	180
	Slope	14	538	274
	Hilltop	10	400	202
<i>E. grandiflora</i>	Bottomland	2	58	26
	Slope	5	155	100
	Hilltop	3	61	44
	Total	44	1637	826

TABLE S2. Sampling size for each mother tree and year of fructification.

		Mother tree	2006	2007	2008
<i>E. falcata</i>	Bottomland	1	0	7	0
		2	60	0	0
		3	0	20	48
		4	0	12	0
		5	0	12	0
		6	40	0	28
		7	47	0	0
		8	0	12	48
		9	0	12	0
		10	0	52	27
	Slope	11	0	16	0
		12	18	0	0
		13	21	0	0
		14	5	0	0
		15	0	17	0
		16	0	7	0
		17	18	8	48
		18	57	0	0
		19	0	52	0
		20	45	0	24
		21	12	0	0
		22	0	20	31
		23	0	30	38
		24	0	51	20
	Hilltop	25	0	0	44
		26	20	0	0
		27	53	0	0
		28	59	0	0
		29	0	12	0
		30	0	12	48
		31	0	48	23
		32	0	36	0
		33	0	7	0
		34	0	38	0
<i>E. grandiflora</i>	Bottomland	35	0	6	0
		36	0	0	52
	Slope	37	0	0	20
		38	0	0	64
		39	0	8	20
		40	0	12	0
		41	0	31	0
	Hilltop	42	0	0	38
		43	0	0	15
		44	0	8	0

TABLE S3. Parameters estimated by the Bayesian analysis of phenotypic value decomposition for seedlings biomass and energy allocation.

			Total Mass 24		Root Mass 24		Leaf mass 24		Leaf surface 24		LMR 24		RMR 24		LAR 24						
			2.5	97.5	2.5	97.5	2.5	97.5	2.5	97.5	2.5	97.5	2.5	97.5	2.5	97.5					
Year effect	Ø2006 Ø2007 Ø2008		-13.940	7.777	-4.217	2.758	-3.954	1.178	-565.5	45.7	-3.42E-02	1.99E-03	8.31E-03	5.37E-02	*	-8.6	-1.431	*			
			0.535	16.230	* -0.780	4.262	1.181	4.891	*	237.8	684.4	*	2.93E-03	2.79E-02	*	-4.99E-02	-1.71E-02	*	0.3759	5.314	*
			-12.930	1.274	-3.461	1.101	-3.450	-0.094	*	-439.5	7.8	-1.15E-02	1.12E-02	-1.34E-02	1.62E-02		-0.2466	4.232			
Species effect	Ø <i>E. grandiflora</i> Ø <i>E. falcata</i>		-7.664	19.560	-3.691	5.052	-1.657	4.775	-506.0	395.3	-5.26E-02	-1.02E-02	*	-4.48E-02	1.21E-02		-17.36	-8.969	*		
			-19.560	7.664	-5.052	3.691	-4.775	1.657	-395.3	506.0	1.02E-02	5.26E-02	*	-1.21E-02	4.48E-02		8.969	17.36	*		
Habitat-of-provenance effect	<i>E. falcata</i>	Ø Hilltop	-5.135	3.778	-1.903	0.959	-0.954	1.152	-157.6	150.1	1.77E-03	1.63E-02	*	-1.46E-02	4.05E-03		-0.009	2.873			
		Ø Slope	-14.960	-5.466	* -5.105	-2.056	* -3.105	-0.862	* -433.3	-120.1	* -2.42E-03	1.29E-02		-7.55E-03	1.23E-02		0.062	3.091	*		
		Ø Bottomland	5.875	16.050	* 2.441	5.708	* 0.699	3.102	* 115.5	456.2	* -2.19E-02	-6.03E-03	*	-7.58E-03	1.37E-02		-4.541	-1.39	*		
	<i>E. grandiflora</i>	Ø Hilltop	-22.290	-2.797	* -6.738	-0.478	* -4.740	-0.134	* -582.6	73.5	* -8.34E-03	2.25E-02		-9.55E-03	3.12E-02		-2.444	3.661			
		Ø Slope	-18.470	-0.314	* -5.457	0.372	* -4.572	-0.284	* -566.8	49.1	* -1.56E-02	1.35E-02		-1.11E-02	2.68E-02		-2.411	3.355			
		Ø Bottomland	10.250	34.460	* 2.399	10.170	* 2.105	7.824	* 121.5	934.1	* -2.48E-02	1.36E-02		-4.30E-02	7.51E-03		-4.796	2.811			
Family effect	<i>E. falcata</i>	Bottomland	Ø family1	-38.350	17.510	-12.780	5.160	-9.605	3.590	-1511.0	386.7	-5.28E-02	3.55E-02	-4.83E-02	6.83E-02		-9.879	7.558			
			Ø family2	-4.839	35.990	0.753	13.870	-1.472	8.176	-261.2	985.2	-4.17E-02	2.34E-02	-4.58E-02	3.95E-02		-9.065	3.808			
			Ø family3	-7.429	22.880	-1.224	8.510	-1.705	5.456	-155.6	826.4	-2.08E-02	2.73E-02	-2.61E-02	3.72E-02		-3.847	5.516			
			Ø family4	-34.690	9.084	-10.700	3.359	-7.777	2.566	-1006.0	393.9	-3.24E-02	3.63E-02	-2.28E-02	6.86E-02		-7.793	5.793			
			Ø family5	-17.590	26.040	-7.576	6.436	-2.623	7.685	-142.8	1235.0	-9.12E-03	5.95E-02	-7.23E-02	1.88E-02		-0.8136	12.83			
			Ø family6	6.826	45.020	* 2.779	15.040	-0.926	8.097	-199.3	1040.0	-5.30E-02	8.22E-03	-6.12E-02	1.85E-02		-11.26	1.031			
			Ø family7	-35.540	5.248	-10.890	2.210	-8.635	1.003	-1196.0	56.4	-3.82E-02	2.67E-02	-2.28E-02	6.24E-02		-5.888	7.022			
			Ø family8	-14.180	21.390	-5.647	5.775	-2.162	6.241	-292.8	875.6	1.58E-03	5.73E-02	* -5.25E-02	2.18E-02		0.6784	11.74	*		
			Ø family9	-34.340	5.225	-11.640	1.070	-8.611	0.735	-1198.0	76.2	-5.76E-02	5.11E-03	-4.03E-02	4.23E-02		-12.38	0.04394			
			Ø family10	-19.950	8.228	-7.338	1.710	-3.755	2.901	-452.1	472.5	-1.22E-02	3.26E-02	-2.56E-02	3.32E-02		-2.446	6.454			
	Slope	Ø family11	-16.310	19.640	-6.699	4.847	-2.425	6.070	-194.4	1013.0	2.89E-03	6.19E-02	* -7.40E-02	1.06E-03		0.551	12.25	*			
		Ø family12	-5.335	32.090	-3.188	8.833	-0.472	8.372	47.3	1211.0	* -1.31E-02	4.67E-02	-1.10E-01	-3.18E-02		-0.7922	11.01				
		Ø family13	-41.700	-3.289	-12.480	-0.141	-9.959	-0.884	* -1417.0	-205.2	* -3.56E-02	2.48E-02	1.75E-02	9.77E-02	*	-6.986	4.978				
		Ø family14	3.345	66.880	* -2.122	18.280	0.237	15.250	* -159.2	1728.0	-5.83E-02	4.19E-02	-1.59E-01	-2.60E-02	*	-12.26	7.578				
		Ø family15	-27.140	8.606	-8.492	2.985	-6.137	2.985	-719.0	395.2	-2.38E-02	3.37E-02	-2.37E-02	5.09E-02		-4.246	7.132				
		Ø family16	-39.240	13.410	-10.700	6.211	-9.296	3.144	-1226.0	354.0	-3.97E-02	4.25E-02	-1.47E-02	9.52E-02		-11.79	4.425				
		Ø family17	-24.790	0.818	-8.094	0.130	-4.948	1.102	-637.0	217.7	1.60E-02	5.74E-02	* -3.95E-02	1.40E-02		4.147	12.33	*			
		Ø family18	-15.400	22.720	-4.322	7.918	-3.780	5.224	-512.9	664.3	-4.42E-02	1.61E-02	-3.33E-02	4.63E-02		-7.536	4.404				
		Ø family19	5.329	42.700	1.399	13.400	1.290	10.120	207.7	1369.0	* -2.69E-02	3.23E-02	-6.02E-02	1.78E-02		-5.508	6.196				
		Ø family20	-21.090	8.386	-5.667	3.799	-4.995	1.969	-772.9	180.4	-2.86E-02	1.83E-02	1.02E-02	1.71E-02	*	-8.155	1.136				
		Ø family21	-15.320	28.520	-5.544	8.534	-4.155	6.203	-507.9	853.4	-5.95E-02	1.04E-02	-6.23E-02	2.92E-02		-9.528	4.307				
		Ø family22	-10.210	24.650	-3.139	8.054	-3.665	4.569	-553.3	547.7	-5.95E-02	-4.97E-03	* -1.65E-02	5.63E-02		-13.12	-2.224				
		Ø family23	-19.200	10.970	-5.802	3.887	-4.297	2.831	-489.5	475.3	-2.14E-02	2.71E-02	-1.72E-02	4.58E-02		-3.819	5.81				
		Ø family24	-40.430	-7.125	-11.050	-0.360	-10.590	-2.727	* -1407.0	-337.5	* -3.35E-02	1.92E-02	2.39E-02	9.34E-02	*	-5.145	5.312				
	Hilltop	Ø family25	4.287	36.630	* 2.910	13.300	0.106	7.747	* 19.5	1141.0	* -4.42E-02	8.64E-03	-1.93E-02	4.83E-02		-9.452	1.043				
		Ø family26	-28.390	12.240	-8.654	4.395	-7.567	2.033	-935.0	270.4	-3.33E-02	3.10E-02	-3.02E-02	5.47E-02		-3.532	9.192				
		Ø family27	1.480	38.770	* -0.312	11.660	-0.500	8.311	-115.9	1006.0	-3.50E-02	2.43E-02	-8.84E-02	-1.05E-02	*	-8.104	3.622				
		Ø family28	-29.780	5.146	-10.470	0.751	-7.164	1.089	-927.5	138.5	-1.66E-02	4.01E-02	-6.10E-02	1.19E-02		-3.167	8.172				
		Ø family29	-22.760	20.770	-6.822	7.156	-6.044	4.240	-847.0	535.5	-6.67E-02	1.94E-03	-2.51E-02	6.58E-02		-15.06	-1.498	*			
		Ø family30	-41.460	-5.305	* -12.390	-0.782	-9.182	-0.640	* -1284.0	-114.5	* -1.11E-02	4.59E-02	-1.51E-02	6.04E-02		-3.711	7.53				
		Ø family31	-10.910	15.630	-3.770	4.749	-2.541	3.726	-317.6	561.4	-2.72E-02	1.56E-02	-2.42E-02	3.12E-02		-5.362	3.103				
		Ø family32	-12.830	19.470	-3.555	6.818	-3.053	4.579	-374.8	664.4	-2.78E-02	2.37E-02	-2.75E-02	3.99E-02		-5.686	4.517				
		Ø family33	-7.745	43.840	-5.821	10.740	0.949	13.140	* 32.1	1622.0	* -2.62E-02	5.64E-02	-8.18E-02	2.59E-02		-8.532	7.741				
		Ø family34	-35.510	-2.513	* -10.080	0.516	-8.386	-0.590	* -1071.0	-9.3	* -5.20E-03	4.76E-02	-1.09E-02	5.80E-02		4.548	15.06	*			
<i>E. grandiflora</i>	Bottom.	Ø family35	-7.715	25.830	-3.008	7.763	-1.107	6.817	-258.0	840.4	-2.52E-02	2.85E-02	-3.10E-02	3.90E-02		-4.164	6.417				
		Ø family36	-25.830	7.715	-7.763	3.008	-6.817	1.107	-840.4	258.0	-2.85E-02	2.52E-02	-3.90E-02	3.10E-02		-6.417	4.164				
	Slope	Ø family37	10.170	40.550	* 4.184	13.940	0.149	7.325	* -71.6	990.3	-3.79E-02	9.80E-03	-4.19E-02	2.16E-02		-7.008	2.554				
		Ø family38	-21.950	8.828	-8.057	1.826	-5.370	1.901	-692.5	318.1	-2.91E-02	1.97E-02	-5.01E-02	1.42E-02		-6.073	3.537				
		Ø family39	6.805	32.490	* -0.449	7.800	4.541	10.610	* 469.7	1336.0	* 1.47E-02	5.55E-02	* -6.96E-02	-1.60E-02	*	0.6324	8.725	*			
		Ø family40	-39.310	-2.809	* -11.070	0.653	-10.720	-2.101	* -1360.0	-189.4	* -5.61E-02	1.03E-03	-1.77E-03	7.44E-02		-8.974	2.335				
	Ø family41	-32.050	-2.268	* -9.121	0.443	-6.629	0.407	-891.2	101.3	-1.16E-02	3.72E-02	3.95E-03	6.61E-02	*	-2.349	7.309					
	Hilltop	Ø family42	-22.560	6.963	-7.263	2.219	-5.159	1.816	-665.6	333.1	-2.35E-02	2.31E-02	-2.30E-02	3.86E-02		-4.552	4.648				
Ø family43		-16.430	15.450	-5.713	4.525	-4.195	3.337	-509.8	535.6	-3.05E-02	1.94E-02	-5.05E-02	1.61E-02		-5.805	4.071					
Ø family44	-11.850	28.400	-3.351	9.575	-2.657	6.852	-488.6	800.5	-2.60E-02	3.74E-02	-3.26E-02	5.14E-02		-5.467	7.094						
Seed mass	<i>E. falcata</i>	Ø Seed mass	4.151	6.956	* 1.444	2.345	0.806	1.469	* 107.8	204.1	* -9.61E-03	-5.20E-03	* -4.02E-03	1.84E-03		-2.322	-1.446	*			
	<i>E. grandiflora</i>	Ø Seed mass	0.467	1.105	* 0.200	0.405	0.071	0.222	* 7.9	29.3	* -9.11E-04	9.70E-05	-4.38E-04	8.94E-04		-0.1614	0.03814				

TABLE S4. Parameters estimated by the Bayesian analysis of phenotypic value decomposition for seedlings height and growth rate.

		Height 6		Height 12		Height 18		Height 24		Growth rate 6-12		Growth rate 12-18		Growth rate 18-24			
		2.5	97.5	2.5	97.5	2.5	97.5	2.5	97.5	2.5	97.5	2.5	97.5	2.5	97.5		
		Year effect	Ø2006	-3.942	0.095	-4.525	3.804	-10.540	2.833	-23.680	3.692	-0.260	0.754	-1.265	0.030	-1.099	1.093
	Ø2007	5.103	8.100	3.015	9.476	* 1.934	12.320	* 3.304	23.490	* -0.383	0.365	-0.307	0.695	-0.011	1.539		
	Ø2008	-5.758	-3.498	-8.405	-3.715	* -7.301	0.256	-12.370	5.044	-0.536	0.040	0.059	0.777	* -1.482	-0.093	*	
Species effect	Ø <i>E. grandiflora</i>	5.864	10.940	* 7.423	18.270	* 0.543	17.990	* -6.199	26.960	-0.080	1.226	-1.648	0.189	-0.842	1.774		
	Ø <i>E. falcata</i>	-10.940	-5.864	* -18.270	-7.423	* -17.990	-0.543	* -26.910	6.264	-1.226	0.080	-0.189	1.648	-1.774	0.842		
Habitat-of-provenance effect	<i>E. falcata</i>	Ø Hilltop	-1.001	1.034	-2.905	1.538	-4.820	2.296	-6.542	5.060	-0.364	0.165	-0.434	0.255	-0.398	0.510	
		Ø Slope	-2.690	-0.477	* -5.922	-1.251	* -9.481	-2.042	* -13.460	-1.726	* -0.615	-0.064	* -0.682	-0.009	* -0.679	0.258	
		Ø Bottomland	0.450	2.669	* 1.760	6.486	* 3.100	10.540	* 2.523	14.620	* 0.153	0.729	* 0.058	0.785	* -0.312	0.664	
	<i>E. grandiflora</i>	Ø Hilltop	-3.770	1.283	-6.915	3.098	-15.050	1.081	-24.790	0.109	-0.588	0.694	-1.588	0.039	-1.315	0.569	
		Ø Slope	-4.768	-0.666	* -10.870	-2.058	* -11.680	2.511	-18.230	4.591	-1.185	-0.111	* -0.361	1.043	-0.829	0.946	
		Ø Bottomland	1.055	6.746	* 1.957	14.470	* 1.243	21.400	* 4.966	34.660	* -0.179	1.316	-0.513	1.430	-0.814	1.500	
Family effect	Bottomland	Ø family1	-9.256	3.962	-20.040	9.548	-35.700	7.991	-60.250	4.126	-2.264	1.413	-3.221	1.101	-4.286	0.720	
		Ø family2	-1.734	5.262	-8.108	6.836	-10.270	13.600	-12.660	36.330	-1.318	0.579	-0.858	1.570	-2.192	1.918	
		Ø family3	-3.683	1.853	-9.931	1.856	-16.660	2.096	-13.340	23.850	-1.235	0.143	-1.535	0.361	-0.324	2.602	
		Ø family4	-6.358	3.695	-12.350	9.544	-17.900	17.510	-34.180	18.460	-1.400	1.404	-1.626	1.727	-1.540	2.642	
		Ø family5	-2.460	9.201	-8.551	16.910	-13.760	26.530	-15.100	40.200	-1.276	1.590	-1.628	2.022	-1.021	3.193	
		Ø family6	-1.201	4.767	4.191	16.820	* 10.640	30.750	* -0.157	47.490	0.734	2.224	* 0.691	2.676	* -1.503	2.382	
		Ø family7	-6.828	0.476	-14.030	1.405	-22.200	2.585	-44.100	6.636	-1.375	0.481	-1.853	0.617	-4.034	-0.046	*
		Ø family8	-5.045	0.319	-13.040	-0.713	* -15.210	4.520	-21.010	20.120	-1.383	0.051	-0.737	1.140	-1.414	2.011	
		Ø family9	-0.950	8.843	-4.250	17.810	-15.640	19.970	-24.470	26.940	-0.850	1.764	-2.589	0.759	-1.407	2.395	
		Ø family10	-2.896	1.813	-4.232	5.720	-4.981	11.300	-17.840	17.010	-0.379	0.903	-0.427	1.115	-1.602	1.154	
	Slope	Ø family11	-2.543	6.638	-5.979	14.810	-8.277	25.060	-12.680	34.780	-0.849	1.603	-1.097	2.050	-1.044	2.534	
		Ø family12	-0.446	9.190	-1.231	18.890	-1.130	31.730	-1.162	46.040	-0.473	1.975	-0.586	2.558	-1.360	2.350	
		Ø family13	-6.907	1.647	-22.190	-4.572	* -38.480	-9.816	* -49.480	-2.737	-2.931	-0.687	* -3.251	-0.516	* -4.051	-0.272	*
		Ø family14	-2.919	12.890	-1.944	32.010	-4.792	48.990	9.442	89.270	* -0.400	3.785	-1.523	3.571	0.041	6.182	
		Ø family15	-7.567	1.706	-18.190	1.337	-30.080	1.382	-39.230	5.802	-2.107	0.293	-2.707	0.191	-2.054	1.412	
		Ø family16	-11.690	2.666	-20.950	9.796	-31.460	14.580	-51.940	14.890	-2.033	1.705	-1.387	3.267	-4.395	0.630	
		Ø family17	-6.710	-1.675	* -9.611	0.953	-16.420	0.530	-24.890	7.599	-0.599	0.711	-1.476	0.183	-1.809	0.715	
		Ø family18	-3.098	3.199	-4.705	9.422	-2.057	20.670	-22.210	23.800	-0.439	1.165	-0.012	2.204	-1.940	1.875	
		Ø family19	-2.880	3.507	-4.670	8.480	-9.068	12.110	-4.543	40.030	-0.543	1.080	-1.468	0.671	0.407	4.007	*
		Ø family20	-0.608	4.919	-7.752	4.212	-11.820	7.493	-32.010	5.196	-1.337	0.130	-1.126	0.804	-2.541	0.383	
		Ø family21	-0.366	9.788	-6.019	16.270	-14.670	20.730	-18.590	41.010	-1.305	1.417	-2.093	1.371	-2.281	1.951	
		Ø family22	-1.555	4.455	7.728	20.190	* 10.520	30.460	* -17.990	24.060	0.954	2.543	* 0.172	2.081	* -2.023	1.337	
		Ø family23	-5.306	0.056	-13.520	-1.050	* -16.440	3.446	-17.080	21.290	-1.478	-0.120	* -0.874	0.929	-0.309	2.653	
		Ø family24	-5.834	-0.427	* -15.740	-3.640	* -24.280	-4.837	* -51.450	-12.120	* -1.709	-0.302	* -1.843	0.115	-2.691	0.488	
	Hilltop	Ø family25	1.429	7.117	* 1.642	14.240	* 3.925	24.130	* -1.935	41.500	-0.100	1.511	0.040	1.974	* 0.237	3.490	*
		Ø family26	-6.126	3.802	-13.470	8.076	-19.020	15.620	-27.530	22.680	-1.445	1.126	-1.534	1.719	-2.705	1.472	
		Ø family27	1.494	8.241	* 5.147	19.790	* 7.397	30.930	* -3.424	42.850	0.421	2.210	* -0.152	2.120	-2.470	1.255	
		Ø family28	-5.262	1.537	-10.960	3.536	-16.220	7.037	-30.020	14.890	-1.123	0.560	-1.307	0.891	-3.026	0.612	
		Ø family29	-3.143	7.457	-10.050	12.880	-20.690	15.120	-32.160	18.050	-1.492	1.239	-2.076	1.365	-2.504	1.512	
		Ø family30	-9.722	-4.582	* -21.420	-10.470	* -30.770	-13.330	* -53.750	-11.740	* -2.278	-0.852	* -1.872	-0.236	* -3.169	0.279	
		Ø family31	-4.197	0.935	-9.022	2.189	-15.130	2.695	-15.230	18.520	-0.980	0.320	-1.351	0.305	-0.617	2.015	
		Ø family32	-3.137	3.530	-6.420	8.061	-13.010	10.100	-15.850	25.450	-0.748	0.980	-1.323	0.797	0.049	3.183	*
		Ø family33	-0.429	12.040	1.066	27.830	* 0.767	43.840	* -10.970	53.810	-0.320	3.107	-0.685	3.294	-2.527	2.453	
		Ø family34	-8.750	-1.922	* -18.370	-4.484	* -27.520	-5.289	* -35.320	5.055	-1.878	-0.225	* -1.852	0.238	-1.268	1.961	
<i>E. grandiflora</i>	Bottom.	Ø family35	-6.774	1.270	-8.744	9.266	-8.683	20.310	-20.390	23.200	-0.363	1.712	-0.534	2.265	-1.250	2.002	
		Ø family36	-1.270	6.774	-9.266	8.744	-20.310	8.683	-23.060	20.770	-1.712	0.363	-2.265	0.534	-2.002	1.250	
	Slope	Ø family37	11.250	19.140	* 11.960	28.360	* 12.540	38.990	* 9.096	46.720	* -0.080	1.934	-0.230	2.189	-1.155	1.764	
		Ø family38	-3.346	2.369	-4.716	7.771	-10.670	9.360	-20.240	16.290	-0.457	0.966	-1.334	0.643	-1.456	1.452	
		Ø family39	0.414	6.741	* 0.769	15.250	* 8.626	31.950	* 15.070	48.120	* -0.095	1.618	0.953	3.215	* 0.690	3.213	*
		Ø family40	-13.220	-4.036	* -23.600	-3.786	* -39.580	-7.714	* -56.490	-10.540	* -2.041	0.226	-3.172	-0.160	* -3.673	-0.204	*
	Ø family41	-13.040	-6.562	* -22.460	-8.805	* -32.160	-10.230	* -42.010	-3.242	* -1.955	-0.232	* -2.078	0.189	-1.674	1.291		
	Hilltop	Ø family42	1.242	7.865	* -9.307	4.845	-12.600	10.200	-24.700	11.790	-2.109	-0.311	* -0.912	1.257	-1.792	1.025	
Ø family43		1.060	9.097	* 0.219	17.390	* -6.963	20.670	-19.130	20.530	-0.206	1.881	-1.550	1.032	-2.603	0.444		
Ø family44		-14.360	-4.830	* -16.840	4.086	-21.990	11.520	-18.240	30.870	-0.959	1.628	-1.354	1.648	-0.446	3.425		
Seed mass	<i>E. falcata</i>	Ø Seed mass	2.482	2.970	* 3.753	4.801	* 4.475	6.155	* 3.410	6.779	* 0.194	0.323	* 0.073	0.234	* -0.099	0.172	
	<i>E. grandiflora</i>	Ø Seed mass	0.232	0.350	* 0.314	0.567	* 0.349	0.757	* 0.060	0.875	* 0.014	0.045	* -0.002	0.039	-0.051	0.010	

TABLE S5. Parameters estimated by the Bayesian analysis of phenotypic value decomposition for seedlings diameter and radial growth.

			Diameter 18		Diameter 24		Radial growth 18-24					
			2.5	97.5	2.5	97.5	2.5	97.5				
Year effect		Θ2006	0.248	1.050	*	-1.013	0.803	-0.165	-0.005	*		
		Θ2007	-0.127	0.489		0.251	1.569	*	0.031	0.150	*	
		Θ2008	-1.074	-0.620	*	-1.338	-0.252	*	-0.054	0.041		
Species effect		Θ <i>E. grandiflora</i>	1.017	2.051	*	0.428	2.640	*	-0.121	0.077		
		Θ <i>E. falcata</i>	-2.051	-1.017	*	-2.640	-0.428	*	-0.077	0.121		
Habitat-of-provenance effect	<i>E. falcata</i>	Θ Hilltop	-0.284	0.134		-0.569	0.131		-0.049	0.015		
		Θ Slope	-0.597	-0.155	*	-0.750	-0.043	*	-0.024	0.041		
		Θ Bottomland	0.216	0.658	*	0.262	1.019	*	-0.023	0.043		
	<i>E. grandiflora</i>	Θ Hilltop	-0.522	0.434		-1.333	0.299		-0.125	0.021		
		Θ Slope	-0.887	-0.046	*	-0.842	0.597		0.016	0.145	*	
		Θ Bottomland	-0.102	1.092		-0.231	1.687		-0.109	0.061		
Family effect	<i>E. falcata</i>	Bottomland	Θ family1	-1.993	0.597		-4.334	-0.330	*	-0.404	-0.045	*
			Θ family2	-0.156	1.272		-0.600	2.638		-0.141	0.163	
			Θ family3	-0.615	0.502		-0.140	2.212		0.050	0.260	*
			Θ family4	-1.374	0.730		-2.567	0.814		-0.124	0.166	
			Θ family5	-0.903	1.488		-1.160	2.230		-0.075	0.232	
			Θ family6	0.806	1.999	*	0.786	3.862	*	-0.055	0.229	
			Θ family7	-1.403	0.079		-2.265	0.970		-0.192	0.098	
			Θ family8	-1.055	0.119		-1.900	0.690		-0.216	0.013	
			Θ family9	-0.865	1.250		-1.728	1.414		-0.148	0.129	
			Θ family10	-0.866	0.099		-1.432	0.855		-0.056	0.145	
		Slope	Θ family11	-1.170	0.806		-1.065	2.094		-0.020	0.259	
			Θ family12	-0.027	1.925		-0.299	2.783		-0.125	0.137	
			Θ family13	-2.505	-0.773	*	-3.370	-0.124	*	-0.281	0.010	
			Θ family14	0.051	3.251	*	-0.261	4.658		-0.214	0.234	
			Θ family15	-1.416	0.456		-2.031	0.966		-0.141	0.125	
			Θ family16	-2.434	0.302		-2.864	1.549		-0.127	0.246	
			Θ family17	-1.070	-0.054	*	-2.281	-0.051	*	-0.115	0.075	
			Θ family18	0.180	1.543	*	-0.722	2.165		-0.150	0.118	
			Θ family19	-0.093	1.163		0.214	3.193	*	0.022	0.279	*
			Θ family20	-0.529	0.620		-2.019	0.312		-0.205	0.004	
			Θ family21	-0.277	1.828		-0.941	2.662		-0.195	0.117	
			Θ family22	0.437	1.620	*	-0.958	1.683		-0.111	0.120	
			Θ family23	-1.320	-0.139	*	-1.641	0.784		-0.047	0.162	
			Θ family24	-1.643	-0.488	*	-3.048	-0.291	*	-0.174	0.066	
	Hilltop	Θ family25	0.185	1.382	*	-0.191	2.543		-0.035	0.220		
		Θ family26	-1.483	0.579		-2.006	1.219	*	-0.102	0.196		
		Θ family27	0.956	2.357	*	0.536	3.543	*	-0.146	0.129		
		Θ family28	-1.330	0.054		-2.383	0.663		-0.139	0.137		
		Θ family29	-0.740	1.384		-1.905	1.500		-0.238	0.066		
		Θ family30	-1.904	-0.868	*	-3.123	-0.343	*	-0.183	0.062		
		Θ family31	-0.444	0.618		-0.746	1.455		-0.081	0.114		
		Θ family32	-0.574	0.798		-0.783	1.881		-0.036	0.202		
		Θ family33	-0.375	2.184		-1.582	2.507		-0.236	0.111		
		Θ family34	-2.037	-0.714	*	-2.964	-0.231	*	-0.156	0.091		
	<i>E. grandiflora</i>	Bottom.	Θ family35	-1.060	0.660		-2.713	-0.015	*	-0.243	0.005	
			Θ family36	-0.660	1.060		0.015	2.713	*	-0.005	0.243	
		Slope	Θ family37	0.688	2.257	*	0.841	3.316	*	-0.022	0.195	
			Θ family38	-0.561	0.633		-1.308	1.069		-0.129	0.089	
			Θ family39	-0.910	0.473		-0.367	1.699		0.044	0.224	*
			Θ family40	-1.391	0.499		-2.599	0.473		-0.246	0.009	
			Θ family41	-1.459	-0.159	*	-2.792	-0.482	*	-0.181	0.026	
			Θ family42	-1.246	0.107		-1.634	0.757		-0.066	0.154	
		Hilltop	Θ family43	-0.201	1.439		-0.053	2.544		-0.028	0.201	
			Θ family44	-1.030	0.968		-2.344	0.732		-0.266	-0.006	*
Seed mass	<i>E. falcata</i>	Θ Seed mass	0.421	0.521	*	0.426	0.643	*	0.001	0.020	*	
	<i>E. grandiflora</i>	Θ Seed mass	0.037	0.061	*	0.025	0.079	*	-0.001	0.003		

TABLE S6. Parameters estimated by the Bayesian analysis of phenotypic value decomposition for leaf traits.

		LMA 18		LMA 24		%N 18		%C 18		Amax 18		$\delta^{13}C$ 18									
		2.5	97.5	2.5	97.5	2.5	97.5	2.5	97.5	2.5	97.5	2.5	97.5								
Year effect		Ø2006	3.682	6.592	2.955	8.190	*	-0.134	-0.018	*	-0.430	-0.122	*	-0.938	-0.320	*	-0.024	0.433			
		Ø2007	0.066	2.205	*	-4.925	-1.292	*	0.181	0.264	*	-0.149	0.083	*	0.536	0.083	*	-0.121	0.205		
		Ø2008	-7.123	-5.484	*	-4.181	-0.910	*	-0.182	-0.111	*	0.221	0.409	*	0.155	0.497	*	-0.372	-0.120	*	
Species effect		Ø <i>E. grandiflora</i>	8.887	12.610	*	8.169	14.350	*	-0.261	-0.117	*	-0.229	0.149	*	-0.415	0.338	*	-0.273	0.314		
		Ø <i>E. falcata</i>	-12.610	-8.887	*	-14.350	-8.169	*	0.117	0.261	*	-0.149	0.229	*	-0.338	0.415	*	-0.314	0.273		
Habitat-of-provenance effect	<i>E. falcata</i>	Ø Hilltop	-0.669	0.835		-1.332	0.790		-0.006	0.052		0.012	0.163	*	-0.221	0.087		-0.073	0.136		
		Ø Slope	-1.398	0.168		-2.316	-0.110	*	-0.005	0.052		-0.121	0.024		-0.267	0.068		-0.315	-0.107	*	
		Ø Bottomland	-0.286	1.335		0.363	2.672	*	-0.077	-0.017	*	-0.120	0.037		-0.003	0.334	*	0.076	0.291	*	
	<i>E. grandiflora</i>	Ø Hilltop	-0.435	3.155		-1.648	2.795		-0.036	0.109		-0.074	0.317		-0.995	-0.246	*	-0.454	0.106		
		Ø Slope	-3.226	-0.193	*	-2.781	1.359		-0.002	0.121		-0.147	0.173		-0.135	0.471		-0.394	0.051		
		Ø Bottomland	-1.867	2.414		-2.560	2.921		-0.181	-0.006	*	-0.355	0.098		0.012	0.872	*	0.060	0.692	*	
Family effect	<i>E. falcata</i>	Bottomland	Ø family1	-5.785	4.044		-5.865	6.779		-0.066	0.292		-0.723	0.205		-1.176	0.795		-1.049	0.235	
			Ø family2	-1.273	4.221		-5.293	4.195		-0.191	0.018		-0.556	-0.010		-0.199	0.853		-0.514	0.265	
			Ø family3	-0.063	3.841		-3.450	3.429		-0.066	0.080		-0.176	0.205		-0.732	0.088		-0.607	-0.036	*
			Ø family4	-7.451	0.867		0.928	10.820	*	-0.237	0.051		-0.308	0.439		-0.947	0.615		-0.463	0.636	
			Ø family5	-6.530	1.735		-9.190	0.763		-0.195	0.104		-0.030	0.739		-0.966	0.782		0.140	1.182	
			Ø family6	-2.481	1.782		-1.144	7.803		0.018	0.176	*	0.137	0.552	*	-0.019	0.888		0.099	0.706	*
			Ø family7	-4.555	0.840		-6.981	2.388		-0.108	0.103		-0.047	0.501		-1.055	0.049		-0.370	0.387	
			Ø family8	-2.000	2.079		-6.564	1.425		-0.104	0.060		-0.330	0.092		-0.609	0.196		-0.550	0.005	
			Ø family9	0.977	8.571	*	-4.175	4.842		-0.197	0.091		-0.501	0.245		-0.569	0.902		-0.589	0.518	
			Ø family10	-1.475	2.184		-3.904	2.583		0.017	0.159	*	-0.394	-0.022	*	0.178	0.887	*	-0.301	0.208	
		Ø family11	-3.461	3.557		-7.571	0.857		-0.008	0.255		0.056	0.741	*	-0.805	0.570		0.009	0.931	*	
		Ø family12	-8.027	-1.005	*	-10.110	-1.579	*	NA	NA		NA	NA		-0.723	0.727		NA	NA		
		Ø family13	-2.873	3.777		-3.443	5.727		-0.222	0.034		-0.109	0.561		-1.780	-0.462	*	-0.774	0.179		
		Ø family14	-11.400	0.654		-8.290	6.163		NA	NA		NA	NA		-0.014	2.374	NA	NA	NA		
		Ø family15	-1.983	4.952		-0.403	7.813		0.068	0.322	*	-0.442	0.219		-0.773	0.621		-0.652	0.319		
		Ø family16	-4.419	5.727		1.028	12.790		-0.216	0.187		-0.347	0.685		-1.252	0.907		-0.668	0.751		
		Ø family17	-2.467	1.270		-7.183	-1.255	*	-0.098	0.046		-0.455	-0.078	*	-0.359	0.406		-0.424	0.092		
		Ø family18	-4.799	-0.220	*	-2.563	6.226		-0.131	0.063		-0.173	0.339		0.323	1.284	*	0.001	0.719	*	
		Ø family19	0.609	5.326	*	-4.255	4.201		0.084	0.243	*	-0.242	0.169		-0.419	0.550		-0.320	0.306		
		Ø family20	0.392	4.599	*	-0.300	6.583		-0.316	-0.134	*	-0.851	-0.368	*	-0.743	0.088		-0.444	0.177		
		Ø family21	-3.304	4.766		-8.277	1.581		NA	NA		NA	NA		-0.787	0.733		NA	NA		
		Ø family22	2.365	6.833	*	0.344	8.267	*	-0.131	0.029		-0.037	0.386		0.109	0.995	*	0.215	0.793	*	
	Ø family23	-0.501	3.402		-4.239	2.765		-0.133	0.010		-0.328	0.042		-0.609	0.197		-0.361	0.180			
	Ø family24	-3.780	0.277		-6.069	1.475		-0.049	0.093		-0.078	0.298		-0.965	-0.153	*	-0.731	-0.209	*		
	Ø family25	-2.244	2.310		-2.142	5.531		-0.079	0.108		-0.097	0.394		0.171	1.027	*	-0.116	0.596			
	Ø family26	-8.222	-0.902	*	-4.695	4.514		-0.369	-0.089	*	-0.474	0.276		-0.786	0.713		-0.678	0.352			
	Ø family27	-1.716	3.444		-5.408	3.260		-0.005	0.195		-0.514	0.015		-0.023	0.998		0.197	0.968	*		
	Ø family28	-4.321	0.556		-5.537	2.693		-0.029	0.170		-0.035	0.497		-0.409	0.613		-0.357	0.372			
	Ø family29	-0.372	7.163		-4.799	5.103		-0.182	0.101		-0.308	0.518		-0.607	0.978		-0.517	0.539			
	Ø family30	-3.181	0.917		-4.275	3.874		-0.131	0.019		-0.434	-0.044	*	-0.937	-0.161	*	-0.814	-0.237	*		
	Ø family31	0.226	3.905	*	-2.940	3.268		-0.024	0.118		-0.113	0.259		-0.555	0.220		-0.561	-0.040	*		
	Ø family32	0.586	5.464	*	-2.433	4.924		0.093	0.271	*	0.215	0.675	*	-0.216	0.777		-0.180	0.449			
	Ø family33	-5.435	4.357		-6.077	5.709		-0.240	0.138		-0.607	0.299		-1.385	0.478		0.011	1.351	*		
	Ø family34	-3.632	1.091		-3.988	3.595		-0.137	0.050		-0.534	-0.048	*	-0.941	0.100		-1.075	-0.418	*		
	<i>E. grandiflora</i>	Bottom.	Ø family35	-4.501	1.430		-5.116	2.574		-0.227	0.028		-0.801	-0.139	*	-0.623	0.590		-0.466	0.437	
			Ø family36	-1.430	4.501		-2.574	5.116		-0.028	0.227		0.139	0.801	*	-0.590	0.623		-0.437	0.466	
		Slope	Ø family37	-3.346	2.433		-3.336	3.605		-0.163	0.064		-0.076	0.526		-0.557	0.622		-0.256	0.574	
			Ø family38	-3.017	1.046		-2.093	4.944		-0.042	0.117		0.139	0.559	*	-0.649	0.206		0.188	0.735	*
			Ø family39	-4.710	0.202		-8.308	-2.434		-0.096	0.098		-0.220	0.305		0.145	1.096	*	-0.672	0.049	
			Ø family40	-0.547	6.007		0.564	8.732	*	-0.217	0.043		-0.542	0.129		-1.288	0.094		-0.374	0.612	
		Ø family41	-1.688	3.260		-4.110	2.924		0.009	0.194	*	-0.662	-0.154	*	-0.342	0.631		-0.764	-0.111	*	
		Hilltop	Ø family42	-2.383	2.714		-3.304	3.414		-0.054	0.142		-0.094	0.421		-0.575	0.404		-0.047	0.648	
			Ø family43	-3.406	2.306		-1.236	5.949		-0.096	0.141		0.060	0.668	*	-1.116	0.042		-0.496	0.336	
			Ø family44	-3.356	3.963		-6.942	2.082		-0.203	0.057		-0.910	-0.188		-0.082	1.330		-0.718	0.255	
Seed mass	<i>E. falcata</i>	Ø Seed mass	0.289	0.661	*	0.850	*	-0.003	0.011		0.005	0.042	*	0.006	0.079	*	0.096	0.149	*		
		<i>E. grandiflora</i>	Ø Seed mass	0.054	0.142	*	0.000	0.145	*	-0.003	3.86E-04		-0.002	0.006	*	-0.009	0.009		0.006	0.019	*

TABLE S7. Progeny effect variance estimates (h^2_M) for plant-level and leaf-level traits under the three hypotheses (full-sibs, mixture and half-sibs) with their 0.025 and 0.975 credible intervals.

		<i>Eperua falcata</i>									<i>Eperua grandiflora</i>								
		h^2_M (full-sibs)			h^2_M (mixture)			h^2_M (half-sibs)			h^2_M (full-sibs)			h^2_M (mixture)			h^2_M (half-sibs)		
		2.5 CI	median	97.5 CI	2.5 CI	median	97.5 CI	2.5 CI	median	97.5 CI	2.5 CI	median	97.5 CI	2.5 CI	median	97.5 CI	2.5 CI	median	97.5 CI
Plant-level traits	<u>Dimensions</u>																		
	Height (6 months)	1.10	9.50	21.40	1.70	14.20	32.10	2.30	19.00	42.80	0.001	0.40	23.90	0.002	0.60	35.90	0.002	0.80	47.90
	Height (12 months)	8.40	19.10	37.50	12.70	28.60	56.30	16.90	38.10	75.10	0.005	11.10	51.80	0.01	16.70	77.70	0.01	22.30	103.60
	Height (18 months)	9.90	20.20	41.00	14.80	30.30	61.50	19.70	40.40	82.10	0.70	25.90	80.10	1.00	38.80	120.10	1.30	51.70	160.10
	Height (24 months)	3.10	13.80	31.30	4.70	20.70	47.00	6.20	27.70	62.60	8.00	39.30	99.00	11.90	58.90	148.50	15.90	78.60	198.00
	Growth rate (6-12 months)	6.90	16.40	35.10	10.30	24.60	52.70	13.80	32.70	70.30	0.60	18.10	65.40	0.90	27.20	98.10	1.20	36.30	130.80
	Growth rate (12-18 months)	1.70	6.90	17.80	2.50	10.30	26.80	3.30	13.70	35.70	0.50	23.50	75.50	0.70	35.30	113.20	0.90	47.00	151.00
	Growth rate (18-24 months)	0.02	2.30	14.40	0.02	3.50	21.60	0.03	4.60	28.80	0.04	11.10	57.40	0.10	16.60	86.00	0.10	22.20	114.70
	Diameter (18 months)	2.50	17.10	38.20	3.80	25.60	57.20	5.00	34.10	76.30	0.10	8.30	41.10	0.10	12.40	61.60	0.20	16.60	82.10
	Diameter (24 months)	4.50	15.10	31.90	6.80	22.60	47.80	9.00	30.10	63.70	0.10	9.80	50.20	0.10	14.70	75.30	0.10	19.60	100.30
	Radial growth (18-24 months)	0.40	5.30	17.10	0.60	7.90	25.60	0.80	10.50	34.10	0.10	12.50	56.90	0.20	18.70	85.30	0.20	25.00	113.70
	<u>Biomass</u>																		
	Total mass (24 months)	8.40	19.50	38.50	12.50	29.30	57.70	16.70	39.10	76.90	4.40	33.90	91.90	6.60	50.90	137.90	8.80	67.90	183.90
	Root mass (24 months)	8.20	18.90	37.40	12.30	28.30	56.00	16.50	37.80	74.70	0.10	21.10	72.30	0.20	31.70	108.40	0.30	42.20	144.50
	Leaf mass (24 months)	4.40	18.10	37.90	6.60	27.20	56.80	8.80	36.20	75.80	3.70	41.70	105.30	5.50	62.50	157.90	7.30	83.30	210.60
	LMR (24 months)	0.80	9.40	22.30	1.20	14.20	33.50	1.60	18.90	44.70	0.10	13.40	57.80	0.10	20.10	86.60	0.10	26.80	115.50
	RMR (24 months)	1.30	13.50	30.10	2.00	20.20	45.10	2.60	27.00	60.20	0.10	12.70	52.00	0.10	19.00	78.10	0.20	25.40	104.10
	Leaf surface (24 months)	3.10	16.00	35.00	4.60	24.00	52.50	6.10	32.00	70.00	12.00	50.90	115.70	18.10	76.30	173.50	24.10	101.80	231.40
	LAR (24 months)	0.01	4.60	16.00	0.02	7.00	23.90	0.02	9.30	31.90	0.003	2.40	33.50	0.005	3.50	50.20	0.01	4.70	66.90
	LMA (18 months)	0.20	3.60	11.30	0.30	5.40	17.00	0.40	7.20	22.70	~0	0.04	5.20	0.0001	0.10	7.80	0.0001	0.10	10.40
	LMA (24 months)	0.01	2.50	12.00	~0	3.70	18.00	0.01	4.90	24.10	0.002	0.60	23.10	0.002	0.80	34.70	0.003	1.10	46.20
	N (18 months)	0.70	9.40	25.30	1.00	14.10	37.90	1.30	18.80	50.50	0.02	6.50	57.10	0.03	9.80	85.60	0.04	13.10	114.20
	C (18 months)	1.60	15.60	34.40	2.50	23.40	51.60	3.30	31.10	68.80	0.001	0.20	4.40	0.001	0.30	6.50	0.001	0.40	8.70
	Amax(18 months)	1.10	8.90	20.90	1.60	13.40	31.40	2.10	17.80	41.90	2.20	32.80	87.40	3.30	49.20	131.00	4.40	65.50	174.70
	d13C (18 months)	2.20	12.50	30.40	3.30	18.70	45.60	4.40	24.90	60.90	0.10	10.40	69.90	0.20	15.70	104.90	0.20	20.90	139.80