

SUPPLEMENTARY DATA

TABLE S1. Survival at all four field sites of plants from the LT and M13 populations, outcross (O) and three generations of selfing (S1, S2, and S3), in comparison to the number planted.

Home site	Population	Generation	Number planted	Survived
Home	LT	O	233	160
	LT	S1	228	133
	LT	S2	232	141
	LT	S3	46	19
	M13	O	234	64
	M13	S1	220	58
	M13	S2	196	55
	M13	S3	187	45
Local occupied	LT	O	232	78
	LT	S1	227	62
	LT	S2	230	61
	LT	S3	56	12
	M13	O	226	121
	M13	S1	225	129
	M13	S2	195	104
	M13	S3	175	81
Native novel	LT	O	232	67
	LT	S1	230	83
	LT	S2	227	75
	LT	S3	52	18
	M13	O	232	102
	M13	S1	230	83
	M13	S2	215	75
	M13	S3	185	65
Non-native novel	LT	O	280	97
	LT	S1	274	65
	LT	S2	251	55
	LT	S3	7	4
	M13	O	278	74
	M13	S1	271	61
	M13	S2	213	45
	M13	S3	178	38

TABLE S2. Means (and coefficients of variation) for each trait, population and cross-type for stem diameter, plant height and above-ground biomass. The cross-types are: O, outcross progeny; S1, progeny from the first generation of selfing; and S2, progeny from the second generation of selfing.

	LT planting site			M13 planting site			Native novel planting site			Non-native novel planting site		
	O	S1	S2	O	S1	S2	O	S1	S2	O	S1	S2
Stem diameter (cm)												
Land Trust (LT)	0.74 (58.5)	0.64 (63.1)	0.54 (53.3)	1.2 (69.8)	0.8 (59.9)	0.72 (51.4)	1.46 (84.6)	1.01 (69.6)	0.98 (67.8)	0.29 (58)	0.26 (65.6)	0.21 (53.3)
M13	0.76 (67.5)	0.59 (74.8)	0.65 (57.8)	0.95 (66.2)	0.76 (67.8)	0.93 (67.9)	1.11 (70.2)	1.24 (88)	0.87 (78)	0.29 (88.6)	0.23 (66.5)	0.22 (71.6)
Height (cm)												
Land Trust (LT)	13.8 (53.4)	11.4 (55.1)	8.6 (60.6)	15.6 (59.5)	11.3 (58.2)	10.3 (65.0)	23.9 (53.8)	18.4 (58.7)	18.0 (67.3)	7.44 (70.12)	6.93 (60.8)	4.3 (67.2)
M13	12.9 (58.0)	9.84 (62)	10.6 (55.4)	13.3 (64.0)	10.6 (62.3)	11.1 (68.1)	19.9 (60.3)	18.25 (62)	14.0 (70.4)	7.33 (74)	5.26 (72.3)	4.91 (70.9)
Biomass (g)												
Land Trust (LT)	0.08 (124)	0.06 (136)	0.04 (134)	0.16 (150)	0.06 (150)	0.05 (133)	0.26 (172)	0.10 (146)	0.11 (141)	0.005 (119)	0.004 (98.3)	0.002 (87.7)
M13	0.07 (126)	0.04 (129)	0.05 (108)	0.11 (138)	0.07 (169)	0.07 (172)	0.17 (214)	0.21 (326)	0.08 (164)	0.005 (115)	0.003 (132)	0.002 (104)

TABLE S3. Plasticity measured by family mean differences between pairs of planting sites. Values are means and standard errors of plasticity. Negative values are when the home site is smaller than the other site; positive values are when plants in the home site have larger values. (a) Variation in measures of plasticity when examined between native and novel sites. (b) Variation in plasticity across cross-types: O, outcross progeny; S1, progeny from the first generation of selfing; and S2, progeny from the second generation of selfing. (c) Variation in measures of plasticity between populations: LT, Land Trust population; and M13, Carr *et al.* population.

(a) Site

	Home to reciprocal occupied native site	Home to native novel site	Home to non-native novel site
Stem diameter plasticity	-0.04 (0.05)	-0.29 (0.06)	0.50 (0.03)
Height plasticity	-0.81 (0.55)	-6.76 (0.75)	5.31 (0.52)

(b) Cross type

	O	S1	S2
Stem diameter plasticity	0.02 (0.06)	-0.009 (0.06)	0.09 (0.05)
Height plasticity	-0.79 (0.82)	-1.07 (0.78)	-1.34 (0.74)

(c) Population

	LT	M13
Stem diameter plasticity	-0.12 (0.04)	0.19 (0.05)
Height plasticity	-1.88 (0.62)	-0.17 (0.66)