

Table S1. Characteristics of the fruits and seeds (mean \pm SD) obtained by spontaneous, self- and cross-pollination (Self and Cross, respectively) in flowers of native and non-native populations of *Oenothera drummondii*. The last row of each trait of fruits and seeds show the comparison (Wilcoxon test) between self- and cross-pollination data of each population (ns = not significant; * $p = 0.05$; ** $p = 0.01$; *** $p = <0.001$). Population acronyms provided in Figure 1.

Characteristics of Fruits and seeds	Pollination treatment	Native populations						Non-native populations			
		OJO	SON	MAN	TEC	SPA	BOL	LEZ	MAH	MUI	DIQ
Fruit set (%)	Spontaneous	0	12	20	15	2	19	5	4	0	7
	Self	96	100	96	96	100	92	96	97	100	100
	Cross	92	100	96	100	100	100	100	100	100	100
Self-Compatibility Index		1.04	1.00	1.00	0.96	1.00	0.92	0.96	0.97	1.00	1.00
Fruit weight (mg)	Spontaneous	11.4 \pm 2.1	18.1 \pm 14.6	34.2 \pm 29.4	24.3 \pm 24.1	22.9 \pm 17.2	35.8 \pm 48.6	18.0 \pm 12.2	22.9 \pm 5.3	11.9 \pm 12.9	17.8 \pm 24.9
	Self	112.7 \pm 28.5	104.6 \pm 37.6	105.6 \pm 56.8	112.4 \pm 56.9	107.8 \pm 68.5	117.5 \pm 85.0	112.6 \pm 64.0	139.0 \pm 81.7	97.7 \pm 35.5	109.0 \pm 48.7
	Cross	131.3 \pm 51.4	102.8 \pm 41.5	149.2 \pm 50.7	127.9 \pm 70.9	113.8 \pm 44.0	192.8 \pm 66.5	96.3 \pm 61.6	176.1 \pm 67.5	116.6 \pm 37.3	84.4 \pm 56.6
		ns	ns	***	ns	ns	***	ns	ns	*	ns
Fruit length (mm)	Spontaneous	18.8 \pm 3.2	22.8 \pm 5.3	23.7 \pm 7.2	21.2 \pm 4.9	18.1 \pm 4.3	22.3 \pm 5.2	16.7 \pm 3.4	19.4 \pm 3.0	12.63 \pm 1.6	14.1 \pm 3.2
	Self	36.9 \pm 6.0	35.3 \pm 6.6	31.2 \pm 6.9	32.7 \pm 6.7	32.2 \pm 8.3	31.6 \pm 10	26.8 \pm 8.8	30.4 \pm 9.9	29.1 \pm 4.0	23.2 \pm 4.6
	Cross	38.9 \pm 8.3	37.7 \pm 7.8	35.6 \pm 4.4	35.7 \pm 8.6	28.2 \pm 5.1	36.7 \pm 6.2	28.1 \pm 7.8	33.4 \pm 5.9	29.8 \pm 3.3	21.1 \pm 5.8
		ns	ns	**	ns	ns	**	ns	ns	ns	ns
Fruit width (mm)	Spontaneous	0.9 \pm 0.1	0.9 \pm 0.2	1.3 \pm 0.3	1.22 \pm 0.3	1.3 \pm 0.2	1.5 \pm 0.5	1.4 \pm 0.2	1.4 \pm 0.2	1.1 \pm 0.1	1.3 \pm 0.3
	Self	1.9 \pm 0.2	1.9 \pm 0.4	2.0 \pm 0.5	2.0 \pm 0.5	2.0 \pm 0.6	2.2 \pm 0.7	2.2 \pm 0.5	2.3 \pm 0.6	2.2 \pm 0.3	2.6 \pm 0.5
	Cross	2.1 \pm 0.4	2.0 \pm 0.3	2.2 \pm 0.5	2.2 \pm 0.5	2.3 \pm 0.4	2.6 \pm 0.5	2.1 \pm 0.6	2.9 \pm 0.5	2.5 \pm 0.3	2.2 \pm 0.7
		**	ns	*	ns	ns	**	ns	***	***	**
Seed set	Spontaneous	0.0 \pm 0.0	46.7 \pm 38.8	42.0 \pm 36.6	54.8 \pm 83.2	62.0 \pm 35.4	89.8 \pm 109.9	58.0 \pm 0.0	10.0 \pm 0.0	0.0 \pm 0.0	72 \pm 100.4
	Self	165.5 \pm 47.1	137.7 \pm 34.7	159.6 \pm 58.7	139.7 \pm 61.8	137.8 \pm 66.1	159.8 \pm 95.2	215.7 \pm 59.0	165.6 \pm 96.8	161.5 \pm 35.8	190.5 \pm 60.3
	Cross	168.4 \pm 67.5	120.2 \pm 44.7	164.9 \pm 65.4	164.6 \pm 75.4	117.9 \pm 62.8	227.1 \pm 45.3	176.8 \pm 94.8	175.2 \pm 87.8	173.2 \pm 49.7	161.7 \pm 83.3
		ns	ns	ns	ns	ns	**	ns	ns	ns	ns
Seed set mass (mg)	Spontaneous	0.0 \pm 0.0	1.7 \pm 5.7	3.7 \pm 9.4	2.8 \pm 10.5	1.7 \pm 5.9	6.2 \pm 18.6	19.6 \pm 0.0	5.3 \pm 0.0	0.0 \pm 0.0	29.1 \pm 38.6
	Self	37.3 \pm 10.5	41.6 \pm 12.8	48.8 \pm 17.4	42.3 \pm 18.7	41.9 \pm 20.4	53.8 \pm 28.3	57.0 \pm 16.1	55.9 \pm 29.2	42.0 \pm 14.6	49.5 \pm 21.7
	Cross	41.7 \pm 17.9	32.5 \pm 14.4	54.1 \pm 19.7	50.2 \pm 23.3	40.3 \pm 18.5	78.9 \pm 23.7	46.4 \pm 24.2	63.9 \pm 30.2	47.4 \pm 16.1	43.5 \pm 24.2
		ns	ns	ns	ns	ns	***	ns	ns	ns	ns
Individual seed weight (mg)	Self	0.23 \pm 0.06	0.30 \pm 0.06	0.32 \pm 0.05	0.31 \pm 0.05	0.40 \pm 0.11	0.39 \pm 0.14	0.28 \pm 0.06	0.38 \pm 0.08	0.25 \pm 0.06	0.25 \pm 0.07
	Cross	0.25 \pm 0.03	0.26 \pm 0.06	0.33 \pm 0.05	0.34 \pm 0.10	0.36 \pm 0.11	0.35 \pm 0.06	0.28 \pm 0.04	0.38 \pm 0.07	0.27 \pm 0.03	0.29 \pm 0.23
		ns	*	ns	ns	ns	ns	ns	ns	ns	ns