

Supplementary material for Effects of Plant Sex on Range Distributions and Allocation to Reproduction, Marc T. J. Johnson, Stacey D. Smith and Mark D. Rausher, published in *New Phytologist* (2010) 186: 769–779. DOI: 10.1111/j.1469-8137.2010.03201.x.

Species	PTH (0)/ Sex (1)	Median lat. (deg.)	Lower												
lat. (deg.)	Upper lat. (deg.)	Range (km <sup>2</sup> )	Petal (cm)	Fl. tube (cm)	Style (cm)	Anther (mm)	Filament (mm)	Capsule (cm)	Seed (mm)	Leaf l.					
(cm)	Leaf w. (cm)	Plant ht. (cm)													
<i>O. toumeyii</i>	1	29.98	27.64	32.32	87390	1.50	4.50	5.25	8.00	8.00	3.00	2.50	2.25	0.40	37.5
<i>O. serrulata</i>	0	39.05	25.90	52.20	4407780	0.85	0.70	0.85	2.75	3.00	1.55	1.40	5.00	0.50	35
<i>O. berlandieri</i>	1	31.86	25.90	37.81	949600	1.55	1.25	1.95	4.50	2.50	2.25	1.40	5.00	0.50	45
<i>O. clelandii</i>	0	40.05	34.57	45.53	1320000	1.05	2.75	3.00	2.75	1.10	1.50	1.45	7.00	1.25	45
<i>O. rhombipetala</i>	1	37.72	30.04	45.40	1724000	2.50	3.75	3.75	5.50	1.80	1.90	1.35	9.00	1.65	65
<i>O. glazioviana</i>	0	-	-	-	-	4.25	4.25	6.50	11.00	21.00	2.75	1.65	10.00	3.25	100
<i>O. biennis</i>	0	39.20	26.34	52.07	9722300	1.85	3.25	4.25	4.50	11.50	3.00	1.55	13.50	3.25	115
<i>O. nutans</i>	0	39.78	28.58	50.98	2070000	1.95	3.65	4.90	7.00	17.50	2.40	1.50	13.00	5.00	115
<i>O. grandiflora</i>	1	35.79	27.99	43.58	688000	3.75	4.50	7.35	12.50	22.50	2.50	1.35	13.00	4.00	200
<i>O. argillicola</i>	1	39.16	37.48	40.83	69890	3.35	4.20	7.25	11.00	23.50	3.00	1.60	9.50	0.70	40
<i>O. elata</i>	1	27.89	8.76	47.03	4044200	3.60	3.75	7.00	15.00	21.00	3.50	1.45	14.50	1.75	140
<i>O. longissima</i>	1	37.64	34.41	40.87	399100	4.65	9.75	13.50	17.00	30.00	4.00	1.50	13.50	1.65	180
<i>O. villosa</i>	0	44.25	31.05	57.44	8797715	1.35	3.35	4.25	7.00	11.00	3.15	1.50	12.50	1.75	125
<i>O. oakesiana</i>	0	43.66	35.46	51.85	2743867	1.35	2.75	3.25	5.00	10.50	2.75	1.15	11.75	1.60	35
<i>O. nana</i>	0	22.72	15.82	29.62	742500	0.40	0.70	0.95	2.50	3.50	1.50	0.90	-	-	5
<i>O. picensis</i>	0	30.56	20.28	40.85	1332000	2.00	3.25	4.50	9.50	13.00	3.00	1.65	8.00	0.90	70
<i>O. versicolor</i>	1	14.47	0.13	28.80	1179000	1.60	1.85	2.75	6.50	8.00	2.25	1.15	10.00	1.30	65
<i>O. rubida</i> (= <i>O. sandiana</i> )	0	10.24	0.51	19.97	1264000	1.65	3.25	4.00	5.75	8.00	2.00	1.25	6.25	1.75	65
<i>O. tarijensis</i>	0	18.91	15.72	22.10	12630	1.75	4.25	5.25	6.50	12.00	2.75	1.40	13.50	1.25	55
<i>O. paradonia</i>	0	31.67	23.15	40.20	1429000	1.60	3.75	4.65	6.50	10.00	3.00	1.35	10.25	1.50	90
<i>O. bahia-blancae</i>	0	40.59	36.69	44.49	347200	1.10	1.85	2.50	5.00	7.50	3.75	1.35	7.50	1.05	65
<i>O. ravenii</i>	0	31.30	22.35	40.26	881880	3.50	3.75	6.00	9.50	17.50	3.00	1.40	9.00	1.15	75
<i>O. stricta</i>	0	35.45	27.25	43.64	256600	2.50	3.25	4.50	8.50	15.00	4.00	1.60	10.50	1.15	87.5
<i>O. villaricae</i>	0	40.66	38.97	42.35	42750	1.75	2.50	3.75	6.50	9.00	2.50	1.30	11.50	1.50	75
<i>O. recurva</i>	0	19.47	16.94	22.01	100000	2.50	7.50	8.50	7.00	13.50	2.50	1.40	12.50	2.00	75
<i>O. longituba</i>	1	26.13	23.54	28.73	47530	3.00	8.50	10.00	10.00	25.00	2.00	1.25	12.50	2.75	75
<i>O. mendocinensis</i>	1	37.12	31.14	43.11	737000	0.75	1.00	1.45	3.75	4.00	4.50	1.50	4.50	0.30	45
<i>O. affinis</i>	1	27.83	20.31	35.35	2768000	3.00	9.50	11.25	12.00	17.50	3.25	1.75	10.00	1.00	95
<i>O. heterophylla</i>	1	33.65	28.70	38.61	308100	3.00	3.60	6.00	5.50	22.50	1.90	1.45	8.00	1.35	47.5
<i>O. grandis</i>	1	33.19	24.57	41.81	1840000	3.25	3.50	5.75	7.50	17.00	3.75	1.15	6.00	2.50	37.5
<i>O. drummondii</i>	1	26.38	18.76	34.01	9248	3.25	3.50	5.50	8.00	16.50	3.75	1.55	4.50	1.50	30
<i>O. humifusa</i>	0	32.76	25.62	39.89	5313	1.03	2.50	3.40	3.75	7.50	3.00	1.50	4.00	0.90	30
<i>O. laciniata</i>	0	36.50	25.84	47.16	4659000	1.35	2.35	3.50	4.00	8.50	3.50	1.35	6.00	2.00	27.5

Supporting Information Table S1 Raw data used in phylogenetic regression analyses. Each species was categorized as PTH (0) or sexual (1) as described in the Materials and Methods. Distribution and trait data for each species are based on data collected across all subspecies, following the taxonomic revision of Wagner et al. 2007<sup>1</sup>.

<sup>1</sup>Wagner WL, Hoch PC, Raven PH. 2007. Revised classification of the Onagraceae. *Systematic Botany Monographs* 83: 1–222.

