

Table S1.

Supplemental Table 1: For California sagebrush (*Artemisia californica*), the mean shoot length ($p = 0.0383$; uninvaded soil $13.45\text{mm} \pm 2.76\text{mm}$ SE, and post-invasive soil $6.35\text{mm} \pm 1.58\text{mm}$ SE), but not the mean root length ($p = 0.062$), was higher in the uninvaded soil. The Harding grass (*Phalaris aquatica*), Purple sage (*Salvia leucophylla*), and Coyote brush (*Baccharis pilularis*) mean total lengths were not significantly different between soil types. All \pm values represent standard error. * represents significant difference between treatments.

Species	Soil Type	Mean Plant Length	Mean Root Length	Mean Shoot Length	Root:Shoot Length	Mean Plant Mass	Mean Root Mass	Mean Shoot Mass	Root:Shoot Mass
<i>Artemisia californica</i>	Uninvaded	$27.15 \pm 5.55^*$	13.7 ± 2.88	13.45 ± 2.76	1.037 ± 0.051	$0.125 \pm 0.02^*$	0.035 ± 0.01	0.09 ± 0.01	0.376 ± 0.051
<i>Artemisia californica</i>	Post-invasive	$13.25 \pm 3.38^*$	6.9 ± 1.84	6.35 ± 1.58	1.091 ± 0.096	$0.036 \pm 0.01^*$	0.01 ± 0	0.026 ± 0.01	0.524 ± 0.096
<i>Baccharis pilularis</i>	Uninvaded	17.8 ± 6.6	10.1 ± 3.85	7.7 ± 2.77	1.274 ± 0.107	0.039 ± 0.01	0.011 ± 0	0.029 ± 0.01	0.452 ± 0.107
<i>Baccharis pilularis</i>	Post-invasive	21.1 ± 5.35	12.95 ± 3.32	8.15 ± 2.06	1.501 ± 0.136	0.024 ± 0	0.009 ± 0	0.016 ± 0	0.685 ± 0.136

<i>Salvia leucophylla</i>	Uninvaded	85.9 ± 7.39	51.2 ± 4.41	34.7 ± 3.11	1.483 ± 0.05	0.189 ± 0.02	0.036 ± 0.01	0.153 ± 0.01	0.228 ± 0.050
<i>Salvia leucophylla</i>	Post- invasive	93.4 ± 8.17	51.75 ± 4.55	41.65 ± 3.81	1.251 ± 0.043	0.19 ± 0.02	0.029 ± 0	0.161 ± 0.01	0.177 ± 0.043
<i>Phalaris aquatica</i>	Uninvaded	198.51 ± 41.59	100.45 ± 21.99	98.06 ± 19.95	1.003 ± 0.047	0.605 ± 0.11*	0.293 ± 0.05	0.312 ± 0.07	1.019 ± 0.047
<i>Phalaris aquatica</i>	Post- invasive	308.15 ± 55.52	149.85 ± 27	158.3 ± 28.76	0.947 ± 0.029	0.337 ± 0.05*	0.164 ± 0.03	0.173 ± 0.03	0.939 ± 0.029