

Table S1

Long-term precipitation and spring-summer temperature data showing years 2009 and 2010 in the context of the previous 25 years. Data are from the McLaughlin UC Natural Reserve (38°51'N, 123°30'W), 21 km south of the study site at similar elevations (400-900 m).

	2009	2010	1986-2011
Precipitation, mm (Sept 1-Aug 31)	587.0	795.3	697.3 ± 232.7
Spring mean temp, °C (March 1 – May 31)	13.71	10.35	12.91 ± 1.62
Spring max temp, °C (March 1 – May 31)	36.11	28.33	33.01 ± 3.53
Summer mean temp, °C (June 1 – August 31)	23.48	22.84	23.07 ± 0.93
Summer max temp, °C (June 1 – August 31)	42.22	42.22	40.83 ± 1.99

Figure S1

Survival curves over replicated plots for *Adenostema fasciculatum* (A, B), *Ceanothus cuneatus* (C, D) and *Eriodictyon californicum* (E, F) for 2010 and 2011. Survival curves are shown per source and destination combination. The panels A, C and E show survival depending on source and destination soil-type. The panels B, D and F show survival depending on source and destination slope.

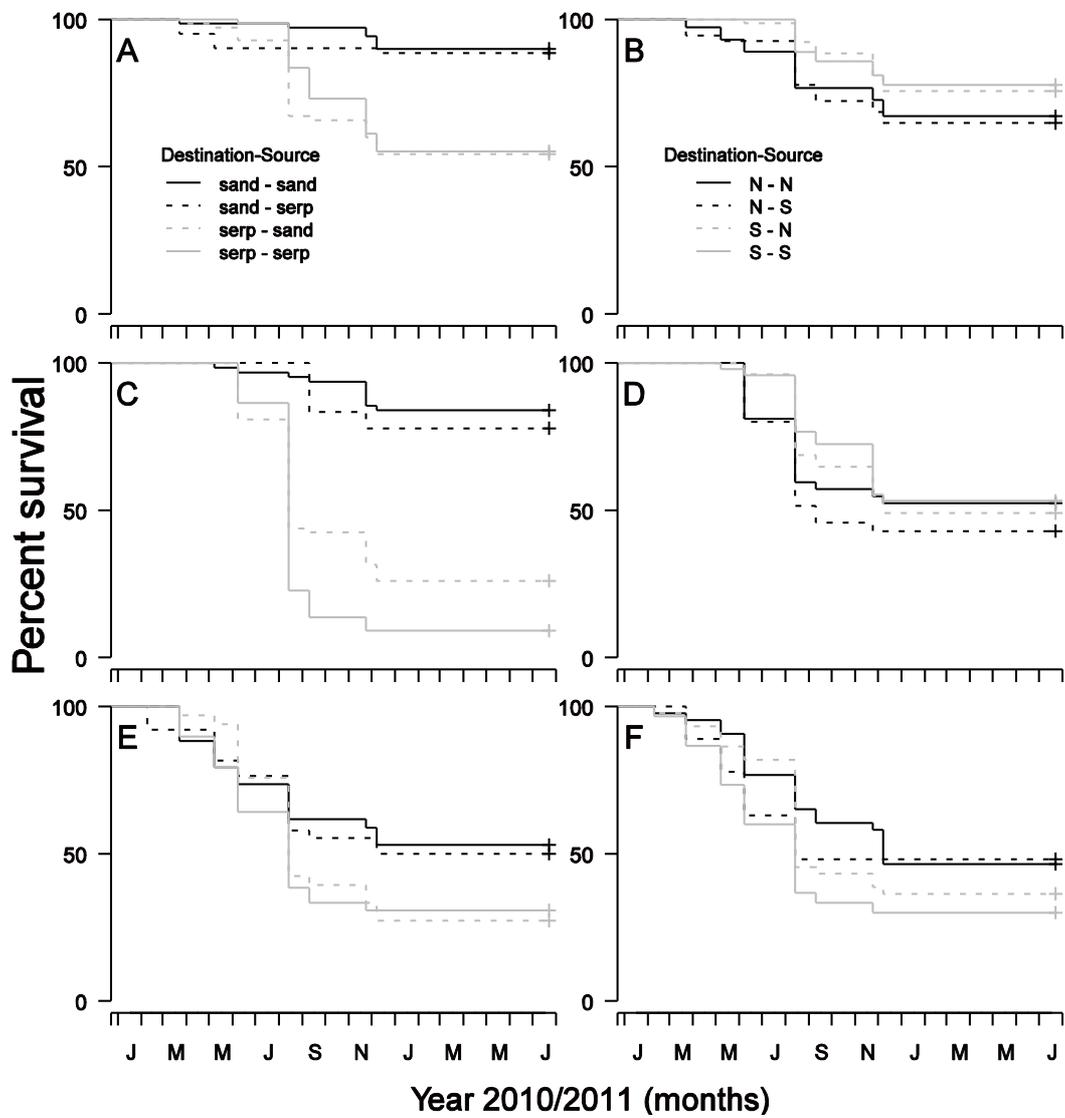


Figure S2

Mean initial heights (\pm SE) for *Adenostema fasciculatum* (A.), *Ceanothus cuneatus* (B) and *Eriodictyon californicum* (C). Seedling populations were collected from random sources in four different soil and slope combinations. Initial height for each source combination was measured three weeks after transplantation and after seedlings were kept in the shadehouse for over six months.

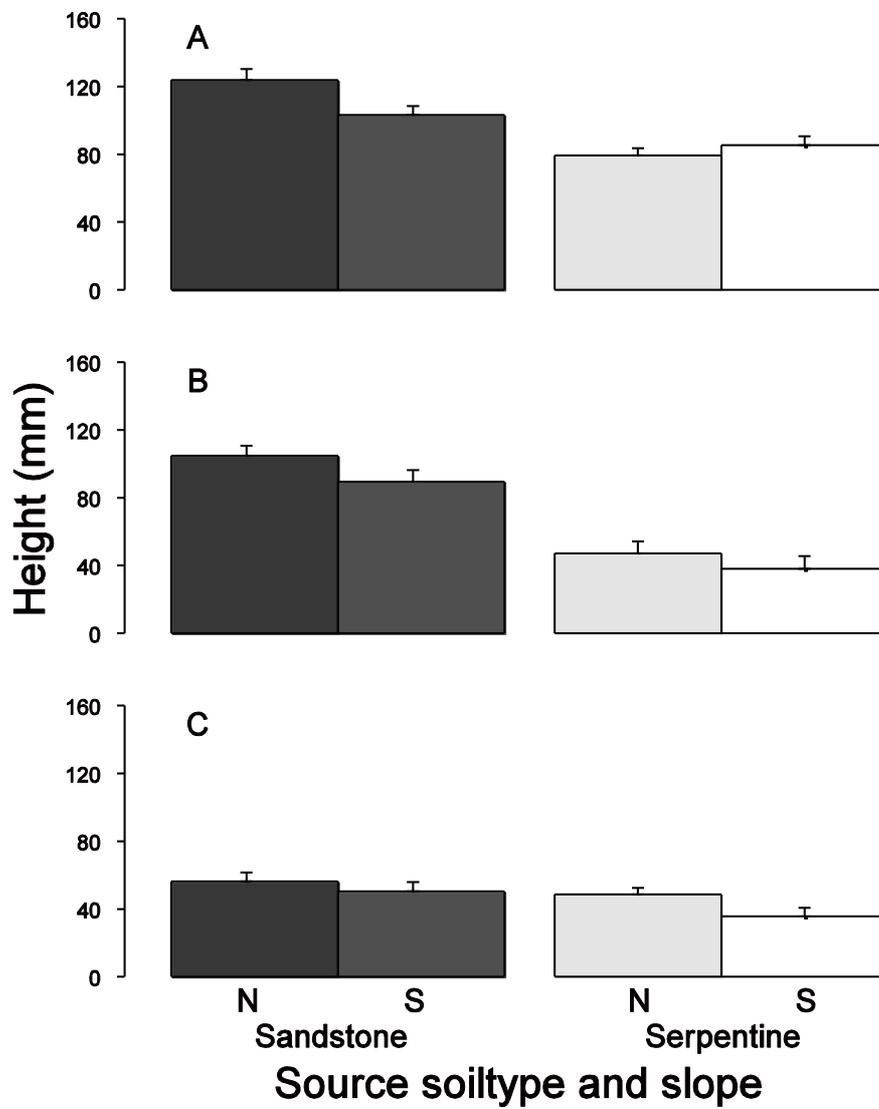


Figure S3

Mean initial heights (\pm SE) and relative growth rates (\pm SE) over two years of natural (non-manipulated) seedling populations. Five seedlings of each of the three-fold replicated populations were measured. Growth, as relative height increase, was calculated using height measured in July 2011 divided by height in June 2009.

Growth-rates were ln-transformed.

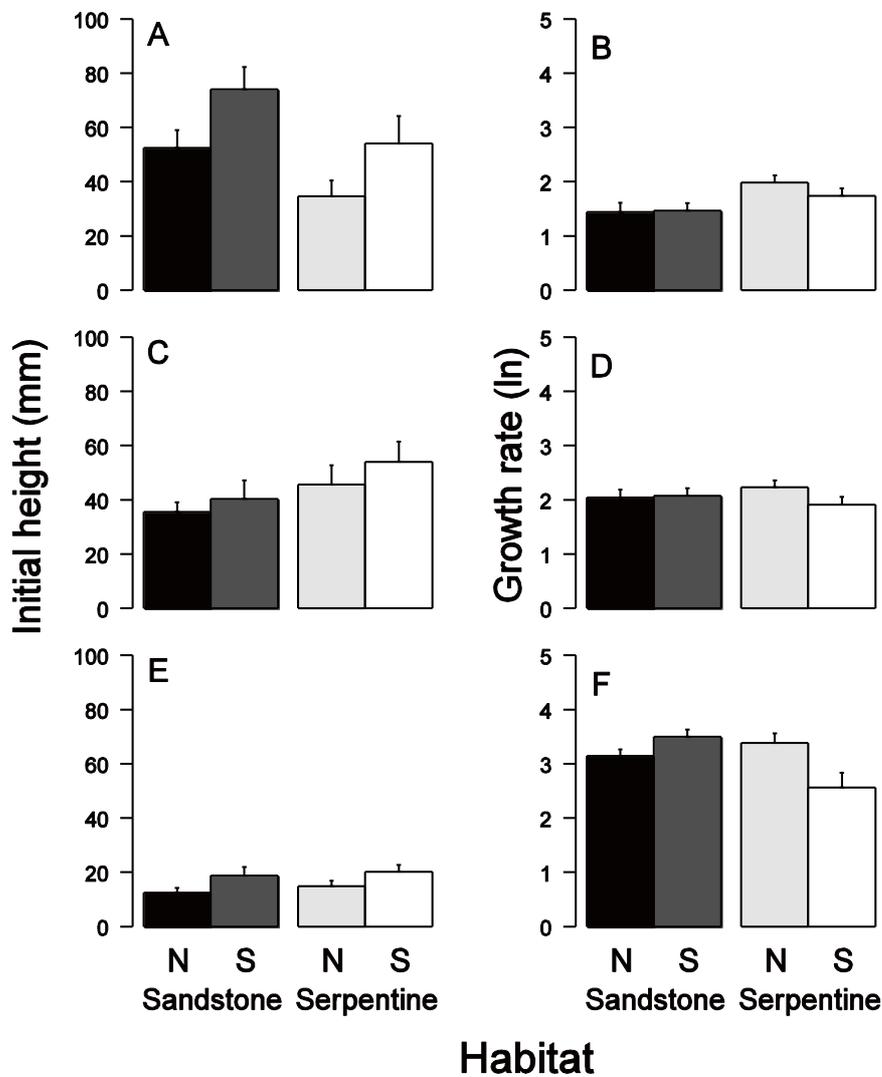


Figure S4

Daily minimum and maximum above-ground temperature for summer 2009 on sandstone and serpentine soil, on north- and south-facing slopes measured at the location of the experimental plots (means of three replicates).

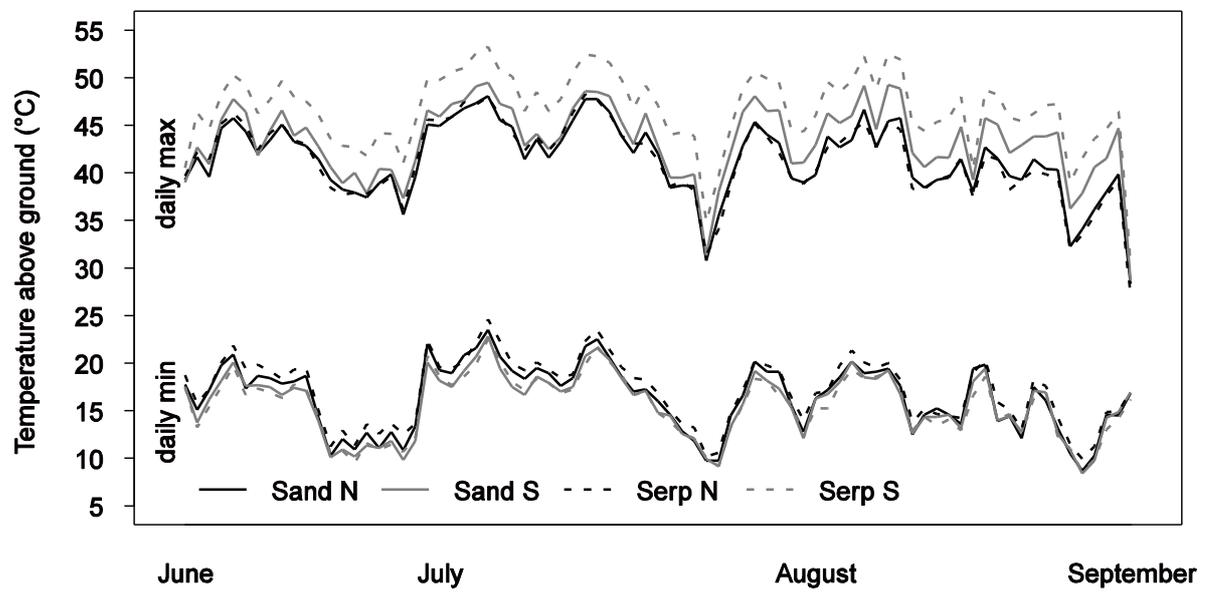


Figure S5

Daily minimum and maximum below-ground temperature for summer 2009 on sandstone and serpentine soil, on north- and south-facing slopes measured at the location of the experimental plots (means of three replicates).

