

Additional file 1:

Measurements of plant performance and life-cycle traits for *C. stoebe* geo-cytotypes, statistical values. *C. stoebe* plants were grown from seed in a common greenhouse environment. Plants were measured for leaf length and leaf number while in rosette form, and these values were multiplied to obtain an early indicator of biomass. After bolting, stem height of each bolting plant was measured the day the first flower opened and the number of capitula per plant were counted after the stems had senesced. The number of newly formed rosettes after flowering, the percent of flowering individuals, and the percent mortality after flowering were monitored. Legend; 2× EU, native Eurasian diploid populations; 4× EU, native Eurasian tetraploid populations; 4× US, invasive North American tetraploids. Significant differences in plant traits were determined for geo-cytotypes of interest (EU 2× versus EU 4× and EU 4× versus US 4×) using pair-wise comparisons of LSmeans. Reported values are LSmeans. Fisher's LSD and absolute t values are reported for each pair-wise comparison.

Measurements of plant performance and life-cycle traits for *C. stoebe* geo-cytotypes, statistical values.

Trait	EU 2x vs EU 4x		Measure of plant performance			EU 4x vs US 4x	
	t	p-value	EU 2x	EU 4x	US 4x	t	p-value
Biomass index (cm)	0.72	0.479	95.47 ^a	86.07 ^a	72.01 ^a	1.12	0.278
Height (cm)	0.96	0.348	55.43 ^a	55.97 ^a	55.60 ^a	0.63	0.538
Capitula (#/rosette)	0.76	0.461	15.67 ^a	18.57 ^a	14.57 ^a	1.36	0.201
New Rosettes (#/plant)	2.39	0.036	2.80^a	5.75 ^b	5.88 ^a	0.74	0.857
Flowering plants (%)	2.72	0.0137	44.34^a	82.14 ^b	75.15 ^b	0.52	0.608
Mortality rate (%)	2.78	0.0127	62.31^a	23.55^b	7.34^b	1.44	0.1685

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