Table S1. Correlations between quantitative aspects of the reconstructions and the axes of the nonmetric multidimensional scaling analysis for seed mixes at Glacial Ridge and Neal Smith National Wildlife Refuges.

Site	Variable	Axis 1 r	Axis 2 r
Glacial Ridge	Age	0.368	0.538
	Area	-0.265	-0.225
	Perimeter length	-0.2	-0.246
	Seed mix richness	-0.939	-0.047
Neal Smith	Age	0.266	0.198
	Area	-0.387	-0.258
	Perimeter length	-0.346	-0.155
	Seed mix richness	-0.908	-0.072

Table S2. Correlations between quantitative aspects of the reconstructions and the axes of the nonmetric multidimensional scaling analysis for vegetation measured in 2015 in reconstructions at Glacial Ridge and Neal Smith National Wildlife Refuges.

Site	Variable	Axis 1 r	Axis 2 r	Axis 3 r
Glacial Ridge	Age	-0.366	0.464	0.195
	Area	0.06	-0.096	-0.004
	Perimeter length	0.149	0.069	0.036
	Prescribed burns (n)	-0.264	0.341	0.225
	Seed mix richness	-0.033	-0.164	-0.111
	Spring precipitation (total)	-0.011	0.104	-0.008
	Spring temperature (mean)	-0.324	0.239	0.038
Neal Smith	Age	-0.011	0.758	0.107
	Area	-0.084	-0.032	-0.048
	Perimeter length	-0.049	0.078	-0.067
	Prescribed burns (n)	-0.366	0.46	-0.131
	Seed mix richness	-0.288	-0.142	0.21
	Spring precipitation (total)	-0.735	0.036	0.12
	Spring temperature (mean)	-0.188	-0.455	-0.182

Table S3. Results of mixed model analysis of variance tests.

Refuge	Response variable	Effect	Num DF	Den DF	F Value	Pr > F
Glacial Ridge	Prop. native planted spp observed	prairie type	2	52	5.73	0.0056
	Prop. native planted spp observed	seed source	1	53	50.13	<.0001
	Mean C v1	prairie type	2	52	1.97	0.1491
	Mean C v2	prairie type	2	31	0.36	0.7008
	Mean C v1	seed source	1	53	3.5	0.0669
	Mean C v2	seed source	1	32	2.12	0.1555
	Introduced spp observed (n)	prairie type	2	52	1.69	0.194
	Introduced spp observed (n)	seed source	1	53	0.85	0.3606
	Shannon all v1	prairie type	2	52	1.49	0.2354
	Shannon all v2	prairie type	2	31	1.65	0.2084
	Shannon all v1	seed source	1	53	0.34	0.5596
	Shannon all v2	seed source	1	32	0.29	0.5942
	Evenness all v1	prairie type	2	52	1.15	0.3245
	Evenness all v2	prairie type	2	31	2.12	0.1365
	Evenness all v1	seed source	1	53	1.11	0.296
	Evenness all v2	seed source	1	32	1.49	0.2313
	Shannon native v1	prairie type	2	52	0.38	0.6847
	Shannon native v2	prairie type	2	31	1.6	0.2177
	Shannon native v1	seed source	1	53	0.07	0.794
	Shannon native v2	seed source	1	32	0.15	0.6977
	Evenness native v1	prairie type	2	52	1.75	0.1847
	Evenness native v2	prairie type	2	31	2.11	0.1384
	Evenness native v1	seed source	1	53	0	0.9776
	Evenness native v2	seed source	1	32	3.3	0.0785
	Native spp observed (n)	prairie type	2	52	2.08	0.1351
	Native spp observed (n)	seed source	1	53	1.3	0.2585
	Native spp observed v1	prairie type	2	52	1.15	0.3246
	Native spp observed v2	prairie type	2	31	2.04	0.1469

	Native spp observed v1	seed source	1	53	0.71	0.4017
	Native spp observed v2	seed source	1	32	1.58	0.2172
Neal Smith	Prop. native planted spp observed	prairie type	2	4	0.66	0.5671
	Prop. native planted spp observed	seed source	1	9	6.71	0.0292
	Mean C	prairie type	2	4	2.11	0.2367
	Mean C	seed source	1	9	0.57	0.4692
	Introduced spp observed (n)	prairie type	2	4	1.47	0.3317
	Introduced spp observed (n)	seed source	1	9	4.82	0.0557
	Shannon all	prairie type	2	4	0.64	0.5731
	Shannon all	seed source	1	9	0.19	0.6769
	Evenness all	prairie type	2	4	4.74	0.088
	Evenness all	seedsource	1	9	0.14	0.7143
	Shannon native spp	prairie type	2	4	3.42	0.1364
	Shannon native spp	seed source	1	9	0	0.9461
	Evenness native spp	prairie type	2	4	2.37	0.2092
	Evenness native spp	seed source	1	9	0.96	0.3536
	Native spp observed (n)	prairie type	2	4	0.89	0.48
	Native spp observed (n)	seed source	1	9	0	0.9629