

Appendix S3

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 Combining local, landscape, and regional geographies to assess plant community vulnerability to invasion impact.
 Ecological Applications

Table S1. Posterior means, SD and 95% confidence interval (CI), from the parameters included in the analysis of SAR parameters c and z . Bold values indicate statistically significant coefficients, 95% CI does not include zero.

Ecoregion	Parameter	Mean	SD	2.5%	97.5%
Northeast	invasive cover				
	βc	-0.06477	0.003275	-0.07091	-0.05825
Mid Atlantic	invasive cover				
	βc	-0.05054	0.002125	-0.05432	-0.04578
Southeast	invasive cover				
	βc	-0.02772	0.00325	-0.03343	-0.0215
Atlantic Neotropical	invasive cover				
	βc	-0.00465	0.005764	-0.01524	0.006828
Great Lakes	invasive cover				
	βc	-0.05923	0.003344	-0.06612	-0.05315
Prairie Appalachians/Cumberland Plateau	invasive cover				
	βc	-0.04305	0.001763	-0.04635	-0.0397
Ozarks Complex	invasive cover				
	βc	-0.0442	0.002918	-0.04944	-0.03809
Noerthern Plains	invasive cover				
	βc	-0.05584	0.003626	-0.06335	-0.04904
Central Plains	invasive cover				
	βc	-0.04236	0.002367	-0.04696	-0.03787
Southern Plains	invasive cover				
	βc	-0.03593	0.001798	-0.0397	-0.03274
Northern Rockies Southern Rockies/Colorado Plateau	invasive cover				
	βc	-0.05699	0.002896	-0.06284	-0.0517
Desert Southwest	invasive cover				
	βc	-0.04818	0.00217	-0.05243	-0.04406
Great Basin	invasive cover				
	βc	-0.02256	0.003116	-0.02891	-0.01689
Pacific Northeast	invasive cover				
	βc	-0.04493	0.00189	-0.04849	-0.04136
Pacific Southeast	invasive cover				
	βc	-0.03338	0.002012	-0.03755	-0.02983
Northeast	invasive cover				
	βz	-0.02381	0.00303	-0.03008	-0.01844
Mid Atlantic	invasive cover				
	βz	4.18E-04	3.14E-05	3.77E-04	4.42E-04
Southeast	invasive cover				
	βz	1.76E-04	3.47E-05	1.31E-04	2.03E-04
Atlantic Neotropical	invasive cover				
	βz	-2.90E-04	4.34E-05	-3.47E-04	-2.57E-04
Great Lakes	invasive cover				
	βz	-6.79E-04	4.87E-05	-7.43E-04	-6.42E-04
Great Lakes	invasive cover				
	βz	8.58E-04	1.07E-05	8.44E-04	8.66E-04

Prairie	invasive cover				
Appalachians/Cumberland Plateau	βz	4.19E-04	2.13E-05	3.91E-04	4.35E-04
	invasive cover				
	βz	1.42E-04	3.75E-05	9.24E-05	1.70E-04
Ozarks Complex	invasive cover				
	βz	-1.38E-04	4.47E-05	-1.96E-04	-1.04E-04
Noerthern Plains	invasive cover				
	βz	9.31E-04	6.14E-06	9.23E-04	9.36E-04
Central Plains	invasive cover				
	βz	5.66E-04	1.49E-05	5.46E-04	5.77E-04
Southern Plains	invasive cover				
	βz	1.77E-04	2.80E-05	1.41E-04	1.99E-04
Northern Rockies	invasive cover				
Southern Rockies/Colorado Plateau	βz	7.52E-04	1.40E-05	7.34E-04	7.63E-04
	invasive cover				
	βz	5.79E-04	1.71E-05	5.56E-04	5.92E-04
Desert Southwest	invasive cover				
	βz	7.05E-05	2.62E-05	3.61E-05	9.04E-05
Great Basin	invasive cover				
	βz	4.81E-04	1.96E-05	4.55E-04	4.96E-04
Pacific Northeast	invasive cover				
	βz	8.67E-05	3.05E-05	4.67E-05	1.10E-04
Pacific Southeast	invasive cover				
	βz	1.30E-04	2.43E-05	9.81E-05	1.49E-04
Overall invasive effect	$\alpha c1$	-0.0413	0.001548	-0.0443	-0.03829
Minimum Temperature	$\alpha c2$	0.01501	0.002271	0.01107	0.01986
Precipitation driest quarter	$\alpha c3$	-0.007474	0.001449	-0.01017	-0.004628
Overall invasive effect	$\alpha z1$	2.40E-04	2.79E-05	2.03E-04	2.61E-04
Minimum Temperature	$\alpha z2$	-4.09E-04	9.88E-06	-4.22E-04	-4.01E-04
Precipitation driest quarter	$\alpha z3$	-8.14E-05	6.78E-06	-9.03E-05	-7.62E-05
Northeast	NPP $\gamma 1$	3.827	0.1927	3.454	4.207
Mid Atlantic	NPP $\gamma 1$	-4.266	0.08808	-4.411	-4.083
Southeast	NPP $\gamma 1$	-3.823	0.103	-4.024	-3.621
Atlantic Neotropical	NPP $\gamma 1$	-2.2	0.3068	-2.792	-1.64
Great Lakes	NPP $\gamma 1$	-1.068	0.339	-1.757	-0.3961
Prairie	NPP $\gamma 1$	5.762	1.432	2.808	8.412
Appalachians/Cumberland Plateau	NPP $\gamma 1$	-3.036	0.4292	-3.857	-2.199
Ozarks Complex	NPP $\gamma 1$	-1.035	0.1705	-1.366	-0.6947
Northern Plains	NPP $\gamma 1$	-1.179	0.5177	-2.188	-0.1614
Central Plains	NPP $\gamma 1$	-1.02	1.222	-3.536	1.405
Southern Plains	NPP $\gamma 1$	15.6	1.519	12.63	18.6
Northern Rockies	NPP $\gamma 1$	-4.321	0.4846	-5.27	-3.369
Southern Rockies/Colorado Plateau	NPP $\gamma 1$	-3.909	0.112	-4.127	-3.684
Desert Southwest	NPP $\gamma 1$	-5.235	0.5117	-5.924	-4.007
Great Basin	NPP $\gamma 1$	2.724	0.1773	2.381	3.078
Pacific Northeast	NPP $\gamma 1$	1.384	0.2266	0.9341	1.862
Pacific Southeast	NPP $\gamma 1$	-3.562	0.3461	-4.248	-2.898
Northeast	HMI $\gamma 2$	-3.578	0.1643	-3.901	-3.254

Mid Atlantic	HMI γ_2	-7.708	0.1641	-8.008	-7.413
Southeast	HMI γ_2	-1.673	0.1423	-1.948	-1.391
Atlantic Neotropical	HMI γ_2	0.5227	0.356	-0.4132	1.017
Great Lakes	HMI γ_2	3.047	0.3196	2.488	3.738
Prairie	HMI γ_2	-1.656	0.4647	-2.596	-0.6425
Appalachians/Cumberland Plateau	HMI γ_2	0.7298	0.3828	-0.01707	1.471
Ozarks Complex	HMI γ_2	-5.866	0.5737	-6.979	-4.713
Northern Plains	HMI γ_2	-3.507	0.1427	-3.79	-3.228
Central Plains	HMI γ_2	-1.004	0.1431	-1.282	-0.722
Southern Plains	HMI γ_2	-2.738	0.7377	-4.186	-1.288
Northern Rockies	HMI γ_2	17.73	1.946	13.89	21.55
Southern Rockies/Colorado Plateau	HMI γ_2	1.559	0.1724	1.216	1.898
Desert Southwest	HMI γ_2	-0.9794	0.4066	-1.739	-0.124
Great Basin	HMI γ_2	0.8055	0.3443	0.1209	1.482
Pacific Northeast	HMI γ_2	0.1253	0.06595	0.01685	0.2608
Pacific Southeast	HMI γ_2	0.9629	0.2387	0.4899	1.43
Northeast	δ	0.3307	0.01235	0.306	0.3553
Mid Atlantic	δ	0.2565	0.02429	0.2093	0.3077
Southeast	δ	0.2411	1.31E-04	0.241	0.2412
Atlantic Neotropical	δ	0.2684	0.06146	0.1461	0.3874
Great Lakes	δ	1.102	0.1719	0.7771	1.458
Prairie	δ	1.322	0.2824	0.8436	1.944
Appalachians/Cumberland Plateau	δ	0.282	0.08675	0.1076	0.4442
Ozarks Complex	δ	0.2933	0.01795	0.2589	0.3304
Northern Plains	δ	0.1581	0.01295	0.1327	0.184
Central Plains	δ	0.1092	0.03192	0.04841	0.1745
Southern Plains	δ	0.7655	0.239	0.2993	1.217
Northern Rockies	δ	0.8428	0.4347	0.2922	1.662
Southern Rockies/Colorado Plateau	δ	0.1382	0.05982	0.02519	0.2596
Desert Southwest	δ	1.371	0.1276	1.062	1.57
Great Basin	δ	0.5012	0.1856	0.09646	0.8102
Pacific Northeast	δ	0.08455	0.07113	0.003069	0.2603
Pacific Southeast	δ	0.5468	0.0315	0.4871	0.6113
Northeast	NPP μ_1	-0.007082	0.002436	-0.01187	-0.002309
Mid Atlantic	NPP μ_1	-0.007348	0.005898	-0.0194	0.00464
Southeast	NPP μ_1	-0.004722	1.80E-04	-0.004859	-0.004487
Atlantic Neotropical	NPP μ_1	0.04784	0.01063	0.03056	0.07109
Great Lakes	NPP μ_1	-0.01905	0.01174	-0.04707	4.70E-04

Prairie	NPP μ 1	0.1883	0.04676	0.1012	0.2895
Appalachians/Cumberland Plateau	NPP μ 1	-0.0176	0.007858	-0.03309	-0.002446
Ozarks Complex	NPP μ 1	-0.00197	0.003094	-0.00829	0.00371
Northern Plains	NPP μ 1	-0.02875	0.01678	-0.05814	0.006305
Central Plains	NPP μ 1	0.0423	0.02551	-0.008074	0.09293
Southern Plains	NPP μ 1	0.1215	0.0566	0.015	0.2343
Northern Rockies	NPP μ 1	-0.006665	0.04002	-0.08996	0.04921
Southern Rockies/Colorado Plateau	NPP μ 1	0.03349	0.00305	0.02743	0.03942
Desert Southwest	NPP μ 1	-0.7796	0.08674	-0.9427	-0.6118
Great Basin	NPP μ 1	0.09618	0.04161	0.008084	0.1665
Pacific Northeast	NPP μ 1	-0.02941	0.006935	-0.04239	-0.0151
Pacific Southeast	NPP μ 1	-0.06706	0.01146	-0.08961	-0.04487
Northeast	HMI μ 2	0.006272	0.003539	-6.76E-04	0.01298
Mid Atlantic	HMI μ 2	-0.003685	0.006656	-0.01698	0.008911
Southeast	HMI μ 2	0.004526	3.52E-04	0.004258	0.004988
Atlantic Neotropical	HMI μ 2	-0.01598	0.01201	-0.03817	0.00931
Great Lakes	HMI μ 2	0.05363	0.008785	0.03693	0.07105
Prairie	HMI μ 2	-0.08262	0.01672	-0.1187	-0.05391
Appalachians/Cumberland Plateau	HMI μ 2	0.01797	0.003778	0.01052	0.02525
Ozarks Complex	HMI μ 2	-0.08214	0.002724	-0.08764	-0.07681
Northern Plains	HMI μ 2	0.01163	0.002247	0.007122	0.01599
Central Plains	HMI μ 2	0.03622	0.01287	0.01174	0.06142
Southern Plains	HMI μ 2	-0.03048	0.01344	-0.05805	-0.006065
Northern Rockies	HMI μ 2	0.09717	0.1349	-0.09247	0.3635
Southern Rockies/Colorado Plateau	HMI μ 2	-0.0142	0.01046	-0.03399	0.007112
Desert Southwest	HMI μ 2	-0.154	0.03855	-0.2276	-0.07229
Great Basin	HMI μ 2	-0.009596	0.0234	-0.05734	0.03539
Pacific Northeast	HMI μ 2	0.01401	0.008533	-0.002877	0.03048
Pacific Southeast	HMI μ 2	0.01272	0.009819	-0.006518	0.0313
Northeast	ln(C) μ 3	-0.05611	0.004659	-0.06533	-0.0468
Mid Atlantic	ln(C) μ 3	-0.007491	0.005115	-0.01798	0.002438
Southeast	ln(C) μ 3	-0.01209	6.14E-04	-0.01255	-0.01128
Atlantic Neotropical	ln(C) μ 3	0.01132	0.02206	-0.03107	0.05521
Great Lakes	ln(C) μ 3	-0.3422	0.06445	-0.4762	-0.22
Prairie	ln(C) μ 3	-0.3839	0.09314	-0.5896	-0.2256
Appalachians/Cumberland Plateau	ln(C) μ 3	-0.02237	0.03144	-0.08083	0.04089
Ozarks Complex	ln(C) μ 3	-0.04877	0.006683	-0.06278	-0.03602

Northern Plains	ln(C) μ_3	-0.0179	0.005866	-0.02963	-0.006442
Central Plains	ln(C) μ_3	0.04603	0.02103	0.001904	0.08397
Southern Plains	ln(C) μ_3	-0.1783	0.07353	-0.3181	-0.03473
Northern Rockies	ln(C) μ_3	-0.2031	0.1201	-0.4178	-0.04553
Southern Rockies/Colorado Plateau	ln(C) μ_3	0.01172	0.02796	-0.04488	0.06447
Desert Southwest	ln(C) μ_3	-1.107	0.09481	-1.307	-0.943
Great Basin	ln(C) μ_3	-0.1076	0.0681	-0.2219	0.03667
Pacific Northeast	ln(C) μ_3	0.06364	0.03231	-0.01595	0.1014
Pacific Southeast	ln(C) μ_3	-0.2113	0.0165	-0.2448	-0.1807