

Table. Range of variation in landscape structure for Mountain Shrubland (118,935 ha) under the simulated HRV disturbance scenario on the San Juan National Forest, Colorado, and the degree of departure of the current landscape from the simulated range of variation (see text for details).

Landscape Metric	Condition Class (seral stage)	Current Landscape <sup>1</sup>		Percentiles of Simulated Distribution							HRV Departure	
		Metric Value	Percentile of HRV	0	5	25	50	75	95	100	CV <sup>2</sup>	Index <sup>3</sup>
<i>Seral Stage Composition<sup>4</sup></i>												
PLAND	Herbs - Shrubs	6.871	100	0.354	1.406	2.607	3.398	4.230	5.441	7.143	119	97
	Early Shrub Dominated	6.088	98	1.355	2.035	3.044	3.750	4.488	5.747	8.401	99	
	Late Shrub Dominated	1.072	0	3.464	4.999	6.068	6.894	7.514	8.547	9.653	51	
<i>Class Configuration<sup>5</sup></i>												
PD	Herbs - Shrubs	0.185	13	0.102	0.143	0.218	0.243	0.259	0.285	0.303	58	82
	Early Shrub Dominated	0.059	0	0.184	0.240	0.294	0.326	0.363	0.464	0.633	69	
	Late Shrub Dominated	0.017	0	0.450	0.507	0.563	0.606	0.647	0.740	0.923	38	
ED	Herbs - Shrubs	7.987	100	0.821	2.200	3.675	4.533	5.340	6.475	8.185	94	67
	Early Shrub Dominated	5.170	51	2.191	3.142	4.403	5.154	6.002	7.101	9.428	77	
	Late Shrub Dominated	1.100	0	6.003	7.606	8.893	9.724	10.426	11.452	12.556	40	
AREA_MN	Herbs - Shrubs	37.095	100	3.335	7.694	11.130	14.153	17.205	22.476	28.069	104	100
	Early Shrub Dominated	103.214	100	3.522	6.458	9.361	11.380	13.265	17.234	25.774	95	
	Late Shrub Dominated	63.560	100	5.380	8.380	9.993	11.074	12.566	14.085	17.064	52	
AREA_AM	Herbs - Shrubs	736.132	67	83.225	216.541	342.145	489.759	905.878	1364.476	1703.780	234	61
	Early Shrub Dominated	1446.271	99	156.160	243.389	344.197	511.256	803.700	1187.880	1578.083	185	
	Late Shrub Dominated	692.319	96	168.834	245.163	317.438	408.355	528.399	669.303	894.006	104	
GYRATE_AM	Herbs - Shrubs	1174.583	73	336.126	625.776	782.075	957.995	1234.349	1474.899	1866.380	89	67
	Early Shrub Dominated	1694.740	100	535.268	640.884	780.999	943.425	1171.067	1376.282	1580.386	78	
	Late Shrub Dominated	1281.975	100	626.903	709.833	805.290	883.749	975.939	1097.977	1262.138	44	
SHAPE_MN	Herbs - Shrubs	1.941	100	1.299	1.394	1.448	1.479	1.515	1.570	1.670	12	100
	Early Shrub Dominated	2.228	100	1.233	1.313	1.376	1.415	1.447	1.493	1.591	13	
	Late Shrub Dominated	2.049	100	1.276	1.337	1.374	1.396	1.423	1.452	1.475	8	
SHAPE_AM	Herbs - Shrubs	4.010	54	2.385	3.076	3.458	3.916	4.712	5.482	7.647	61	61
	Early Shrub Dominated	5.467	97	2.721	3.125	3.549	3.941	4.547	5.223	6.676	53	
	Late Shrub Dominated	4.917	99	3.314	3.522	3.773	4.030	4.315	4.609	5.209	27	

CPLAND	Herbs - Shrubs	5.034	99	0.276	1.081	2.008	2.673	3.319	4.415	5.679	125	96
	Early Shrub Dominated	4.917	99	1.052	1.611	2.383	2.939	3.519	4.575	6.702	101	
	Late Shrub Dominated	0.810	0	2.562	3.707	4.539	5.188	5.691	6.427	7.371	52	
CORE_MN	Herbs - Shrubs	27.178	100	2.496	5.830	8.658	11.099	13.563	17.980	22.318	109	100
	Early Shrub Dominated	83.353	100	2.754	5.003	7.263	8.934	10.559	13.628	20.560	97	
	Late Shrub Dominated	48.022	100	3.980	6.222	7.493	8.354	9.463	10.686	13.029	53	
CORE_AM	Herbs - Shrubs	628.425	67	68.720	180.936	291.448	419.590	787.259	1214.884	1511.405	246	57
	Early Shrub Dominated	1260.387	99	134.464	209.118	292.961	435.517	704.946	1057.881	1409.573	195	
	Late Shrub Dominated	566.911	94	140.698	206.411	270.539	353.395	460.881	586.845	793.032	108	
CAI_MN	Herbs - Shrubs	46.137	0	47.566	49.201	51.159	52.376	53.821	55.598	60.606	12	59
	Early Shrub Dominated	57.227	34	51.100	54.422	56.566	58.766	61.515	67.056	76.636	21	
	Late Shrub Dominated	51.822	6	50.189	51.648	53.501	54.689	56.251	59.793	65.583	15	
CAI_AM	Herbs - Shrubs	73.265	1	72.172	74.998	77.085	78.412	79.550	81.110	83.395	8	53
	Early Shrub Dominated	80.757	91	73.001	75.541	77.299	78.368	79.595	81.094	83.606	7	
	Late Shrub Dominated	75.553	60	71.926	73.336	74.484	75.288	76.088	76.980	78.232	5	
PROX_MN	Herbs - Shrubs	107.627	46	10.192	42.014	78.030	117.700	192.844	325.932	572.883	241	35
	Early Shrub Dominated	189.470	76	28.158	52.640	87.578	127.142	187.093	299.763	550.814	194	
	Late Shrub Dominated	38.152	0	56.900	114.451	163.714	210.736	273.006	362.648	526.158	118	
PROX_AM	Herbs - Shrubs	558.570	62	6.021	64.113	178.591	362.115	792.727	1402.850	4991.595	370	63
	Early Shrub Dominated	1232.004	97	45.696	86.459	193.570	376.680	642.926	1130.639	1961.543	277	
	Late Shrub Dominated	80.102	0	101.167	178.133	258.382	331.930	450.195	678.457	1104.227	151	
CWED	Herbs - Shrubs	3.231	100	0.128	0.518	0.940	1.208	1.461	1.837	2.501	109	93
	Early Shrub Dominated	2.006	95	0.469	0.730	1.086	1.353	1.602	2.010	2.897	95	
	Late Shrub Dominated	0.447	0	1.651	2.272	2.654	2.984	3.237	3.636	3.993	46	
TECI	Herbs - Shrubs	39.798	100	15.541	21.885	24.798	26.457	27.822	29.486	31.608	29	100
	Early Shrub Dominated	37.794	100	16.834	21.694	24.209	25.765	26.879	28.883	31.230	28	
	Late Shrub Dominated	39.779	100	26.923	28.198	29.426	30.105	31.052	32.174	33.397	13	
CLUMPY	Herbs - Shrubs	0.922	82	0.857	0.896	0.906	0.914	0.920	0.926	0.934	3	76
	Early Shrub Dominated	0.943	100	0.876	0.896	0.906	0.910	0.916	0.922	0.931	3	
	Late Shrub Dominated	0.936	100	0.888	0.897	0.902	0.904	0.907	0.910	0.914	1	

IJI	Herbs - Shrubs	74.612	55	52.904	66.248	71.729	74.127	76.396	78.917	81.207	17	0
	Early Shrub Dominated	72.091	62	60.486	65.550	69.228	71.079	72.969	75.120	78.252	13	
	Late Shrub Dominated	76.581	61	71.216	73.674	74.979	76.108	77.076	78.385	79.613	6	

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**Summary Indices<sup>6</sup>:**

<i>Seral-Stage Departure Index</i>	97
<i>Class Configuration Departure Index</i>	71
<i>Cover Type Departure Index</i>	84

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<sup>1</sup>Some stand conditions are not represented in the current landscape. Certain metrics are logically zero if the class is absent, while others are undefined (indicated by missing data). HRV departure index is undefined if the current landscape condition is undefined.

<sup>2</sup>CV = coefficient of variation in the simulated distribution, computed as the difference between the 5 and 95 percentiles divided by the median and multiplied by 100 to convert to a percentage. n/d = not defined (division by zero).

<sup>3</sup>HRV departure index represents the degree of departure of the current landscape condition from the historic range of variability and is given here specifically as the degree of departure from the 25-75 percentile range of variation, where a 0 represents no departure (i.e., within the 25-75 percentiles of variation) and 100 represents complete departure (i.e., outside the 0-100 percentiles of variation).

<sup>4</sup>Landscape composition here represents the distribution of area among seral stages for the corresponding cover type. PLAND = the percent of the landscape encompassed by the corresponding seral stage. Note, PLAND = the percentage of the entire landscape, not as a percent of the corresponding cover type.

<sup>5</sup>Landscape configuration here represents the spatial character, distribution, and arrangement of the corresponding cover type. The landscape metrics listed here are described in detail in the FRAGSTATS methods section. PD = patch density; ED = edge density; AREA\_MN = mean patch size; AREA\_AM = area-weighted mean patch size; GYRATE\_AM = area-weighted mean patch radius of gyration (correlation length); SHAPE\_MN = mean patch shape index; SHAPE\_AM = area-weighted mean patch shape index; CPLAND = core area percent of landscape; CORE\_MN = mean patch core area; CORE\_AM = area-weighted mean patch core area; CAI\_MN = mean patch core area index; CAI\_AM = area-weighted mean patch core area index; PROX\_MN = mean proximity index; PROX\_AM = area-weighted mean proximity index; CWED = contrast-weighted edge density; TECI = total edge contrast index; CLUMPY = clumpiness index; IJI = interspersion and juxtaposition index.

<sup>6</sup>Seral-stage departure index is based on the distribution of area (percentage of landscape) among seral stages and is computed as the mean departure across seral stages. Class configuration departure index is based on several landscape metrics that quantify different aspects of the spatial distribution of the cover type and is computed as the mean departure across metrics. Cover type departure index is computed as the mean of the seral-stage and class configuration departure indices.