

Table. Range of variation in landscape structure for sagebrush-dominated stands under the simulated HRV disturbance scenario on the Dolores District, 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	Current Landscape ¹		Percentiles of Simulated Distribution							HRV Departure	
	Metric Value	Percentile of HRV	0	5	25	50	75	95	100	CV ²	Index ³
<i>Seral Stage Composition</i> ⁴											
PLAND	3.259	96	2.338	2.384	2.483	2.659	2.852	3.199	3.667	31	84
<i>Class Configuration</i> ⁵											
PD	0.078	32	0.059	0.068	0.077	0.084	0.091	0.136	0.181	81	0
ED	3.163	63	2.395	2.559	2.756	2.993	3.384	3.734	4.245	39	0
AREA_MN	41.761	100	14.583	21.849	29.524	32.692	34.816	37.779	41.203	49	100
AREA_AM	1142.342	6	1037.410	1139.523	1230.866	1302.910	1389.771	1694.336	1908.762	43	78
GYRATE_AM	1298.077	35	1190.370	1228.827	1279.329	1326.015	1409.792	1650.098	1819.647	32	0
SHAPE_MN	1.922	48	1.837	1.886	1.907	1.924	1.949	1.991	2.016	5	0
SHAPE_AM	4.187	3	4.086	4.242	4.370	4.442	4.994	6.035	6.802	40	90
CPLAND	2.831	96	1.962	2.041	2.133	2.275	2.446	2.754	3.221	31	84
CORE_MN	36.275	100	12.784	19.141	25.205	28.068	30.044	32.799	35.784	49	100
CORE_AM	1065.862	3	993.242	1076.853	1162.282	1222.586	1321.290	1587.321	1776.162	42	86
CAI_MN	68.408	82	52.368	55.560	58.837	61.994	66.311	79.023	82.878	38	26
CAI_AM	86.862	77	82.183	83.322	84.781	85.775	86.739	87.634	88.690	5	6
PROX_MN	280.134	71	83.191	144.431	193.894	222.084	299.073	581.679	793.224	197	0
PROX_AM	176.425	3	144.819	181.596	218.655	231.454	297.051	726.354	1496.569	235	90
CWED	0.782	59	0.609	0.656	0.713	0.763	0.825	0.905	0.939	33	0
TECI	23.597	38	19.830	21.734	22.904	24.452	25.879	27.246	28.450	23	0
CLUMPY	0.937	100	0.909	0.918	0.926	0.929	0.931	0.934	0.936	2	100
IJI	75.579	70	65.452	67.204	70.840	73.795	76.129	78.142	80.415	15	0
Summary Indices⁶:											
										<i>Seral-Stage Departure Index</i>	84
										<i>Class Configuration Departure Index</i>	42
										<i>Cover Type Departure Index</i>	63

¹Some 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.

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

³HRV 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 25-75th percentile range of variation, where a 0 represents no departure (i.e., within the 25-75th percentiles of variation) and 100 represents complete departure (i.e., outside the 0-100th percentiles of variation).

⁴Landscape 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.

⁵Landscape 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 = interspersed and juxtaposition index.

⁶Seral-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.