

Table. Range of variation in landscape structure for sagebrush-dominated stands under the simulated HRV disturbance scenario on the Pagosa 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 <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</i> <sup>4</sup>											
PLAND	1.369	10	1.126	1.260	1.590	2.003	2.449	3.032	3.291	88	60
<i>Class Configuration</i> <sup>5</sup>											
PD	0.037	0	0.041	0.052	0.059	0.070	0.082	0.142	0.201	129	100
ED	1.623	1	1.545	1.838	2.434	2.872	3.282	3.871	4.657	71	95
AREA_MN	36.843	75	8.061	12.849	20.024	25.613	36.964	55.729	78.656	167	0
AREA_AM	174.036	28	106.172	120.534	164.288	274.644	580.710	1273.788	1419.705	420	0
GYRATE_AM	609.323	27	459.610	509.027	599.854	763.489	1053.993	1555.601	1656.411	137	0
SHAPE_MN	1.943	20	1.809	1.870	1.957	2.032	2.100	2.220	2.369	17	22
SHAPE_AM	2.792	7	2.625	2.712	3.273	4.037	4.865	6.009	6.769	82	74
CPLAND	1.010	13	0.831	0.911	1.157	1.440	1.870	2.383	2.566	102	49
CORE_MN	27.185	73	6.168	9.470	14.482	18.924	28.563	44.569	61.380	185	0
CORE_AM	138.896	31	84.148	94.078	126.555	208.935	508.563	1150.303	1308.136	506	0
CAI_MN	56.692	82	36.183	38.939	45.091	49.861	54.373	69.984	77.263	62	26
CAI_AM	73.787	45	66.180	69.114	72.113	74.116	76.453	79.425	82.547	14	0
PROX_MN	68.556	31	24.251	33.202	60.603	109.659	180.620	342.751	523.073	282	0
PROX_AM	80.613	22	29.294	46.687	83.770	122.582	197.483	391.988	706.099	282	12
CWED	0.614	3	0.550	0.659	0.840	1.013	1.157	1.291	1.446	62	89
TECI	37.281	93	28.521	30.889	33.713	34.772	35.842	37.544	39.265	19	73
CLUMPY	0.928	86	0.853	0.881	0.903	0.911	0.920	0.932	0.941	6	44
IJI	66.115	48	50.178	55.516	63.364	66.273	68.575	70.742	72.505	23	0
<b>Summary Indices<sup>6</sup>:</b>											
										<i>Seral-Stage Departure Index</i>	60
										<i>Class Configuration Departure Index</i>	32
										<i>Cover Type Departure Index</i>	46

<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<sup>th</sup> 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<sup>th</sup> percentile range of variation, where a 0 represents no departure (i.e., within the 25-75<sup>th</sup> percentiles of variation) and 100 represents complete departure (i.e., outside the 0-100<sup>th</sup> 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 = interspersed 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.