

Table. Range of variation in landscape structure for sagebrush-dominated stands under the simulated HRV disturbance scenario on the Columbine 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 Index ³	
	Metric Value	Percentile of HRV	0	5	25	50	75	95	100	CV ²	Index ³
<i>Seral Stage Composition</i> ⁴											
PLAND	1.181	30	0.849	0.912	1.134	1.309	1.540	1.794	1.954	67	0
<i>Class Configuration</i> ⁵											
PD	0.038	0	0.037	0.042	0.047	0.053	0.059	0.079	0.109	71	98
ED	1.667	14	1.364	1.521	1.863	2.112	2.316	2.525	2.777	48	45
AREA_MN	30.896	80	9.148	16.558	20.202	24.118	28.304	37.544	44.454	87	20
AREA_AM	222.913	48	169.553	185.176	200.421	225.205	269.736	359.214	389.732	77	0
GYRATE_AM	725.986	40	610.622	646.975	688.832	777.884	878.634	1034.325	1116.247	50	0
SHAPE_MN	2.024	21	1.876	1.964	2.029	2.074	2.126	2.189	2.243	11	17
SHAPE_AM	3.559	14	3.358	3.463	3.648	3.817	4.045	4.373	4.643	24	45
CPLAND	0.829	43	0.540	0.570	0.737	0.859	1.042	1.274	1.391	82	0
CORE_MN	21.684	83	6.155	10.688	12.988	15.723	19.662	26.666	32.287	102	31
CORE_AM	181.908	60	126.991	136.095	151.934	172.796	216.371	292.095	317.935	90	0
CAI_MN	43.366	61	30.299	32.821	38.111	41.859	45.672	61.213	68.721	68	0
CAI_AM	70.186	85	58.837	61.904	64.210	66.711	69.030	71.369	73.908	14	40
PROX_MN	72.501	21	35.893	48.917	77.224	115.970	162.407	236.155	296.220	161	16
PROX_AM	230.263	7	196.467	220.098	288.555	407.345	839.613	1455.996	1633.285	303	72
CWED	0.612	5	0.552	0.617	0.732	0.818	0.871	0.950	1.020	41	82
TECI	36.263	10	32.974	35.495	37.190	38.341	39.477	41.094	42.151	15	60
CLUMPY	0.914	87	0.870	0.887	0.898	0.902	0.909	0.917	0.921	3	49
IJI	66.590	46	59.667	62.189	64.634	67.016	70.123	72.981	74.875	16	0
Summary Indices⁶:											
<i>Seral-Stage Departure Index</i>											0
<i>Class Configuration Departure Index</i>											32
<i>Cover Type Departure Index</i>											16

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.