

Table. Range of variation in landscape structure for Mesic Sagebrush 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	Condition Class (seral stage)	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	Herbs - Shrubs	0.780	76	0.201	0.363	0.514	0.648	0.771	0.934	0.993	88	5
	Shrubs - Herbs	0.263	24	0.049	0.109	0.272	0.395	0.529	0.680	0.842	145	
<i>Class Configuration</i> ⁵												
PD	Herbs - Shrubs	0.026	0	0.023	0.028	0.033	0.038	0.043	0.052	0.059	64	99
	Shrubs - Herbs	0.004	0	0.026	0.035	0.049	0.057	0.065	0.075	0.099	70	
ED	Herbs - Shrubs	1.012	73	0.394	0.620	0.785	0.909	1.019	1.155	1.233	59	36
	Shrubs - Herbs	0.256	7	0.153	0.235	0.484	0.676	0.853	1.075	1.238	124	
AREA_MN	Herbs - Shrubs	30.172	93	4.902	7.502	11.492	17.080	23.502	31.079	39.648	138	86
	Shrubs - Herbs	61.964	100	0.999	2.535	4.891	6.896	8.961	12.041	17.852	138	
AREA_AM	Herbs - Shrubs	108.614	34	31.667	55.226	91.039	128.291	151.940	166.199	185.719	87	50
	Shrubs - Herbs	244.192	100	12.603	26.115	54.072	73.434	88.636	123.545	162.601	133	
GYRATE_AM	Herbs - Shrubs	454.229	37	230.875	304.261	415.189	516.620	588.586	620.450	664.483	61	50
	Shrubs - Herbs	887.765	100	153.983	219.143	324.708	385.331	422.688	550.765	670.789	86	
SHAPE_MN	Herbs - Shrubs	1.855	99	1.367	1.437	1.515	1.602	1.693	1.815	1.910	24	99
	Shrubs - Herbs	1.931	100	1.123	1.177	1.264	1.336	1.398	1.478	1.618	23	
SHAPE_AM	Herbs - Shrubs	2.528	30	1.892	2.088	2.421	2.692	2.820	2.988	3.282	33	49
	Shrubs - Herbs	3.085	99	1.747	1.943	2.236	2.420	2.610	2.913	3.396	40	
CPLAND	Herbs - Shrubs	0.557	71	0.151	0.255	0.378	0.476	0.575	0.705	0.764	95	2
	Shrubs - Herbs	0.211	24	0.037	0.080	0.213	0.311	0.417	0.536	0.644	146	
CORE_MN	Herbs - Shrubs	21.555	90	3.518	5.444	8.449	12.580	17.519	23.059	29.581	140	80
	Shrubs - Herbs	49.740	100	0.773	1.938	3.863	5.542	7.193	9.715	14.322	140	
CORE_AM	Herbs - Shrubs	82.203	33	21.435	43.712	71.644	100.741	118.889	129.892	144.010	86	50

	Shrubs - Herbs	197.137	100	9.821	22.142	45.221	62.451	77.159	104.003	134.403	131	
CAI_MN	Herbs - Shrubs	61.351	83	41.451	45.288	50.127	54.020	59.602	66.336	70.076	39	59
	Shrubs - Herbs	59.826	3	57.196	60.366	66.211	69.719	73.416	78.851	82.759	27	
CAI_AM	Herbs - Shrubs	71.440	18	64.436	69.750	72.108	73.587	75.366	76.804	79.361	10	13
	Shrubs - Herbs	80.272	62	54.696	73.268	77.077	79.262	81.800	85.780	91.516	16	
PROX_MN	Herbs - Shrubs	43.682	67	5.853	16.523	26.813	35.404	47.458	69.991	96.636	151	32
	Shrubs - Herbs	6.512	9	1.087	2.920	17.938	33.288	47.755	81.179	110.799	235	
PROX_AM	Herbs - Shrubs	86.790	87	1.977	7.411	28.567	45.842	77.343	96.522	148.441	194	51
	Shrubs - Herbs	3.568	11	0.524	1.260	11.281	34.776	77.746	130.673	179.961	372	
CWED	Herbs - Shrubs	0.390	91	0.089	0.168	0.231	0.293	0.344	0.405	0.430	81	43
	Shrubs - Herbs	0.091	20	0.025	0.047	0.107	0.156	0.219	0.286	0.365	153	
TECI	Herbs - Shrubs	38.174	100	21.762	26.115	29.415	32.159	34.193	35.695	36.520	30	100
	Shrubs - Herbs	35.641	100	13.892	18.517	21.774	23.828	25.739	28.194	31.616	41	
CLUMPY	Herbs - Shrubs	0.922	71	0.871	0.892	0.908	0.918	0.923	0.927	0.931	4	50
	Shrubs - Herbs	0.948	100	0.800	0.861	0.890	0.901	0.907	0.914	0.927	6	
IJI	Herbs - Shrubs	61.224	22	49.925	57.087	61.329	63.324	65.314	68.699	72.356	18	44
	Shrubs - Herbs	55.113	6	43.599	54.624	59.850	62.150	64.421	67.153	73.692	20	

Summary Indices⁶:

<i>Seral-Stage Departure Index</i>	5
<i>Class Configuration Departure Index</i>	55
<i>Cover Type Departure Index</i>	30

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 = interspersion 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.