

Table. Range of variation in landscape structure for Pinyon-Juniper Sagebrush Woodland (15,992 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</i> <sup>4</sup>												
PLAND	Herb Dominated	0.038	32	0.000	0.000	0.028	0.091	0.199	0.460	0.706	503	50
	Herbs - Shrubs	0.508	52	0.062	0.156	0.322	0.494	0.674	0.885	1.129	148	
	Shrubs - Trees	0.164	0	0.361	0.443	0.637	0.830	1.035	1.392	1.525	114	
	Tree Dominated	1.178	100	0.014	0.064	0.258	0.376	0.549	0.758	0.946	185	
<i>Class Configuration</i> <sup>5</sup>												
PD	Herb Dominated	0.005	9	0.000	0.001	0.030	0.043	0.055	0.082	0.190	187	91
	Herbs - Shrubs	0.013	0	0.065	0.116	0.131	0.151	0.180	0.375	0.511	172	
	Shrubs - Trees	0.003	0	0.106	0.137	0.186	0.222	0.250	0.312	0.408	79	
	Tree Dominated	0.008	0	0.036	0.178	0.240	0.265	0.296	0.495	0.766	120	
ED	Herb Dominated	0.096	19	0.000	0.002	0.139	0.311	0.520	0.895	1.468	287	55
	Herbs - Shrubs	0.509	1	0.379	0.645	0.964	1.280	1.622	2.100	2.655	114	
	Shrubs - Trees	0.168	0	1.296	1.487	1.760	2.031	2.300	2.692	3.227	59	
	Tree Dominated	1.070	35	0.087	0.604	0.928	1.277	1.585	1.926	2.502	104	
AREA_MN	Herb Dominated	6.962	90	0.063	0.150	0.705	1.746	4.173	9.081	17.507	511	90
	Herbs - Shrubs	39.845	100	0.494	0.970	1.747	2.673	4.250	6.742	9.507	216	
	Shrubs - Trees	66.003	100	1.215	1.717	2.485	3.650	5.408	9.966	13.806	226	
	Tree Dominated	155.968	100	0.113	0.177	0.870	1.457	2.152	3.033	4.775	196	
AREA_AM	Herb Dominated	25.428	48	0.063	0.242	6.159	28.755	144.427	540.461	1964.014	1879	33
	Herbs - Shrubs	434.476	83	3.919	40.200	97.136	179.123	319.417	1021.425	1597.014	548	
	Shrubs - Trees	511.257	72	36.344	86.060	169.595	276.256	548.088	840.184	1124.961	273	
	Tree Dominated	1119.082	100	0.756	2.856	140.704	222.840	292.570	446.207	1135.646	199	
GYRATE_AM	Herb Dominated	309.757	53	12.500	20.747	121.780	283.987	604.418	1177.389	2526.394	407	53
	Herbs - Shrubs	926.014	80	91.131	274.642	469.919	676.978	851.013	1493.208	2004.743	180	
	Shrubs - Trees	1496.212	99	275.050	390.588	600.705	798.314	1129.660	1394.942	1634.005	126	
	Tree Dominated	1813.569	100	29.711	57.700	489.142	639.430	755.003	973.311	1925.698	143	
SHAPE_MN	Herb Dominated	1.763	100	1.000	1.069	1.254	1.319	1.393	1.463	1.590	30	100
	Herbs - Shrubs	1.934	100	1.204	1.255	1.290	1.322	1.361	1.430	1.498	13	

	Shrubs - Trees	2.225	100	1.220	1.281	1.336	1.367	1.415	1.508	1.599	17	
	Tree Dominated	2.680	100	1.049	1.091	1.141	1.205	1.240	1.268	1.326	15	
SHAPE_AM	Herb Dominated	2.445	28	1.000	1.134	2.326	3.236	4.422	6.637	12.949	170	20
	Herbs - Shrubs	3.231	9	1.969	2.971	3.830	4.482	5.424	7.443	9.975	100	
	Shrubs - Trees	4.191	23	3.000	3.519	4.242	5.111	6.269	9.192	11.892	111	
	Tree Dominated	5.819	77	1.255	1.537	4.369	5.081	5.766	7.665	16.488	121	
CPLAND	Herb Dominated	0.020	36	0.000	0.000	0.010	0.049	0.127	0.334	0.513	681	50
	Herbs - Shrubs	0.459	58	0.036	0.122	0.252	0.402	0.553	0.738	0.978	153	
	Shrubs - Trees	0.142	0	0.293	0.377	0.552	0.728	0.904	1.216	1.337	115	
	Tree Dominated	1.018	100	0.010	0.052	0.209	0.307	0.453	0.636	0.804	190	
CORE_MN	Herb Dominated	3.757	83	0.000	0.008	0.262	0.907	2.749	6.491	13.386	715	83
	Herbs - Shrubs	36.050	100	0.290	0.736	1.396	2.158	3.506	5.647	8.150	228	
	Shrubs - Trees	57.250	100	1.023	1.451	2.160	3.189	4.718	8.660	12.105	226	
	Tree Dominated	134.827	100	0.092	0.144	0.707	1.190	1.779	2.534	4.113	201	
CORE_AM	Herb Dominated	15.749	47	0.000	0.020	3.341	18.057	109.657	478.195	1665.737	2648	33
	Herbs - Shrubs	409.707	83	2.789	33.959	84.240	157.706	292.052	956.814	1502.851	585	
	Shrubs - Trees	439.955	68	30.662	77.311	148.188	257.294	513.102	780.659	1069.037	273	
	Tree Dominated	995.420	100	0.528	2.067	123.935	195.784	255.361	397.317	1019.442	202	
CAI_MN	Herb Dominated	35.599	98	0.000	2.956	11.670	15.929	20.711	28.902	51.566	163	42
	Herbs - Shrubs	74.039	94	43.318	47.350	54.128	58.547	63.519	74.873	78.716	47	
	Shrubs - Trees	75.469	58	63.219	68.882	72.851	74.734	77.413	80.375	82.225	15	
	Tree Dominated	71.187	25	49.555	63.184	71.228	75.285	79.321	83.726	90.049	27	
CAI_AM	Herb Dominated	53.962	51	0.000	5.955	37.658	53.187	67.137	76.139	80.933	132	46
	Herbs - Shrubs	90.477	100	58.631	72.787	78.740	81.367	83.963	86.325	89.394	17	
	Shrubs - Trees	86.739	43	80.974	83.569	86.105	87.021	87.926	89.390	90.985	7	
	Tree Dominated	86.446	96	62.458	76.834	80.358	82.058	83.565	86.278	88.540	12	
PROX_MN	Herb Dominated	0.913	9	0.000	0.027	5.764	20.157	64.273	248.877	902.122	1235	60
	Herbs - Shrubs	205.513	94	3.022	10.895	24.869	51.226	92.487	211.947	406.923	392	
	Shrubs - Trees	12.521	0	12.988	26.036	48.284	88.089	185.933	328.362	487.577	343	
	Tree Dominated	62.157	35	0.711	1.706	41.078	98.215	149.611	255.702	450.998	259	
PROX_AM	Herb Dominated	1.306	9	0.000	0.010	8.721	35.686	135.942	315.463	2895.353	884	56
	Herbs - Shrubs	60.840	19	4.016	20.828	81.108	143.427	223.422	401.495	2319.545	265	

	Shrubs - Trees	2.207	0	24.978	43.960	109.845	172.374	233.168	427.870	1125.043	223	
	Tree Dominated	42.226	17	1.207	3.351	62.026	107.796	154.312	273.209	1500.720	250	
CWED	Herb Dominated	0.032	22	0.000	0.000	0.037	0.083	0.140	0.242	0.369	292	42
	Herbs - Shrubs	0.128	11	0.056	0.106	0.164	0.220	0.272	0.336	0.423	105	
	Shrubs - Trees	0.047	0	0.188	0.227	0.296	0.343	0.420	0.519	0.592	85	
	Tree Dominated	0.288	44	0.022	0.143	0.225	0.314	0.388	0.468	0.588	104	
TECI	Herb Dominated	31.968	100	14.706	22.023	24.404	25.748	27.450	29.902	33.916	31	100
	Herbs - Shrubs	23.601	100	6.239	10.545	15.526	17.026	18.309	20.155	22.486	56	
	Shrubs - Trees	27.660	100	8.082	12.414	15.723	17.829	19.097	20.321	22.201	44	
	Tree Dominated	25.971	100	21.598	22.123	23.103	23.789	24.296	25.121	25.946	13	
CLUMPY	Herb Dominated	0.848	71	-1.000	0.391	0.639	0.760	0.855	0.896	0.923	66	75
	Herbs - Shrubs	0.937	100	0.581	0.705	0.793	0.832	0.861	0.880	0.899	21	
	Shrubs - Trees	0.941	100	0.728	0.772	0.813	0.841	0.865	0.893	0.904	14	
	Tree Dominated	0.943	100	0.247	0.398	0.760	0.801	0.823	0.854	0.864	57	
IJI	Herb Dominated	68.267	99	25.047	43.770	54.362	57.923	61.198	65.323	69.774	37	91
	Herbs - Shrubs	68.365	100	31.564	44.793	53.225	56.093	58.442	60.873	62.749	29	
	Shrubs - Trees	59.176	92	38.996	45.034	48.670	51.936	55.135	60.464	64.260	30	
	Tree Dominated	66.316	100	18.130	22.251	35.498	39.407	43.231	47.126	51.541	63	

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

<i>Seral-Stage Departure Index</i>	50
<i>Class Configuration Departure Index</i>	62
<i>Cover Type Departure Index</i>	56

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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.