

Table. Range of variation in landscape structure for pinyon-juniper woodlands, inclusive of all PJ types, 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 Composition⁴</i>												
PLAND	Early seral	0.535	73	0.040	0.132	0.235	0.377	0.543	0.721	0.802	156	67
	Mid seral	0.189	0	0.236	0.629	1.240	1.735	2.403	3.119	3.590	143	
	Late seral	2.653	100	0.004	0.016	0.112	0.454	0.764	1.336	1.701	291	
<i>Class Configuration⁵</i>												
PD	Early seral	0.016	0	0.014	0.025	0.034	0.040	0.048	0.069	0.094	109	89
	Mid seral	0.005	0	0.052	0.079	0.102	0.125	0.150	0.186	0.238	85	
	Late seral	0.017	8	0.003	0.011	0.059	0.091	0.114	0.142	0.158	144	
ED	Early seral	0.762	30	0.158	0.461	0.709	0.994	1.245	1.478	1.620	102	49
	Mid seral	0.267	0	0.736	1.743	2.413	3.259	3.846	4.413	5.103	82	
	Late seral	2.276	87	0.021	0.079	0.584	1.297	1.836	2.979	3.959	224	
AREA_MN	Early seral	32.840	100	2.157	3.317	5.915	8.701	13.017	19.029	23.920	181	92
	Mid seral	35.529	94	2.444	4.744	8.079	13.193	20.707	35.932	58.978	236	
	Late seral	156.169	100	0.900	1.151	1.607	4.410	6.857	11.712	20.167	239	
AREA_AM	Early seral	306.481	100	3.723	11.108	24.160	50.535	111.561	169.457	220.610	313	79
	Mid seral	128.744	16	7.948	68.104	202.969	433.602	1038.381	1727.972	2426.750	383	
	Late seral	2346.814	100	1.148	2.060	6.567	90.646	230.149	722.257	1847.227	795	
GYRATE_AM	Early seral	1005.885	100	102.811	176.369	265.599	373.600	510.807	663.973	805.835	131	76
	Mid seral	535.280	18	129.721	365.459	658.217	978.629	1618.219	2244.984	2673.371	192	
	Late seral	2697.008	100	50.372	64.505	102.328	407.081	718.402	1307.804	3086.043	305	
SHAPE_MN	Early seral	2.117	91	1.714	1.839	1.932	1.997	2.059	2.149	2.277	15	89
	Mid seral	2.332	100	1.585	1.614	1.768	1.875	1.948	2.067	2.248	24	
	Late seral	2.633	100	1.435	1.507	1.637	1.679	1.735	1.811	1.933	18	
SHAPE_AM	Early seral	4.504	98	2.063	2.415	2.742	3.123	3.491	4.042	5.393	52	82
	Mid seral	2.922	4	2.194	2.953	4.212	5.105	6.621	8.999	10.925	118	
	Late seral	7.455	93	1.488	1.635	1.972	3.598	5.140	7.848	16.265	173	

CPLAND	Early seral	0.356	86	0.014	0.053	0.104	0.191	0.301	0.426	0.471	196	82
	Mid seral	0.159	0	0.194	0.505	1.045	1.459	2.046	2.665	3.044	148	
	Late seral	2.360	100	0.002	0.009	0.076	0.328	0.592	1.113	1.430	337	
CORE_MN	Early seral	21.837	100	0.548	1.311	2.692	4.391	7.246	11.050	14.608	222	92
	Mid seral	30.013	94	2.060	4.040	6.835	11.348	18.108	30.470	50.135	233	
	Late seral	138.898	100	0.283	0.614	1.248	3.302	5.340	9.663	17.143	274	
CORE_AM	Early seral	234.924	100	1.104	5.246	14.151	33.731	82.033	124.797	151.911	354	78
	Mid seral	117.020	17	6.924	59.705	185.754	396.999	980.350	1622.203	2314.825	394	
	Late seral	2100.362	100	0.323	1.318	4.774	79.936	205.935	656.016	1664.267	819	
CAI_MN	Early seral	35.280	85	16.930	22.174	26.955	30.043	33.216	45.378	51.290	77	40
	Mid seral	70.809	24	61.240	65.947	71.003	74.324	78.178	82.451	86.068	22	
	Late seral	80.744	95	18.812	30.240	45.520	59.475	71.710	81.024	90.250	85	
CAI_AM	Early seral	66.496	100	24.510	35.758	45.771	51.305	55.868	59.481	64.461	46	66
	Mid seral	84.473	35	76.612	80.443	83.682	85.324	87.070	89.838	91.821	11	
	Late seral	88.941	99	29.185	44.007	70.140	78.238	83.100	87.002	90.825	55	
PROX_MN	Early seral	62.148	87	3.260	8.168	14.474	23.878	41.443	86.723	132.325	329	66
	Mid seral	3.487	0	6.508	18.674	62.801	128.820	292.676	580.126	1233.636	436	
	Late seral	122.405	87	0.275	0.804	2.770	31.055	71.654	188.455	873.953	604	
PROX_AM	Early seral	11.698	9	2.357	8.738	20.018	34.555	68.295	185.116	293.282	510	55
	Mid seral	3.082	0	8.904	35.585	88.878	191.190	399.734	1114.655	3385.569	564	
	Late seral	37.144	46	0.206	0.953	3.830	46.517	145.080	558.136	3199.739	1198	
CWED	Early seral	0.297	38	0.046	0.150	0.238	0.344	0.442	0.532	0.587	111	42
	Mid seral	0.077	0	0.175	0.404	0.579	0.850	1.025	1.201	1.307	94	
	Late seral	0.566	81	0.006	0.022	0.145	0.353	0.514	0.809	1.056	223	
TECI	Early seral	38.146	92	24.446	28.147	32.614	35.076	36.277	38.558	40.722	30	44
	Mid seral	27.451	85	21.144	22.358	23.679	24.954	26.511	28.468	30.714	24	
	Late seral	24.138	18	21.197	22.559	24.806	26.818	28.948	32.066	35.392	35	
CLUMPY	Early seral	0.914	100	0.691	0.749	0.811	0.842	0.869	0.888	0.895	17	86
	Mid seral	0.917	89	0.681	0.815	0.854	0.882	0.904	0.923	0.935	12	
	Late seral	0.946	100	0.574	0.621	0.728	0.814	0.847	0.875	0.891	31	

IJI	Early seral	59.726	42	43.661	51.746	57.265	60.308	62.985	67.276	71.768	26	31
	Mid seral	66.881	59	41.061	56.584	61.979	66.065	68.818	71.929	73.637	23	
	Late seral	63.417	98	17.850	26.346	38.959	48.019	54.192	59.897	66.757	70	

Summary Indices⁶:

<i>Seral-Stage Departure Index</i>	67
<i>Class Configuration Departure Index</i>	69
<i>Cover Type Departure Index</i>	68

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.