

Table. Range of variation in landscape structure for oak-dominated stands under the simulated HRV disturbance scenario on the Dolores 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							CV ²	HRV Departure Index ³
		Metric Value	Percentile of HRV	0	5	25	50	75	95	100		
<i>Seral Stage Composition</i> ⁴												
PLAND	Early seral	17.106	100	5.596	7.542	9.080	10.666	12.506	14.038	15.864	61	100
	Late seral	0.762	0	1.967	3.569	5.115	6.637	7.865	9.336	11.290	87	
<i>Class Configuration</i> ⁵												
PD	Early seral	0.318	0	0.489	0.539	0.601	0.664	0.726	0.841	1.001	45	100
	Late seral	0.019	0	0.106	0.194	0.244	0.276	0.314	0.351	0.461	57	
ED	Early seral	16.969	69	10.042	12.872	14.423	15.753	17.365	19.381	21.397	41	50
	Late seral	0.924	0	3.102	5.612	7.665	9.416	10.816	12.331	14.696	71	
AREA_MN	Early seral	53.727	100	8.470	10.729	13.076	15.721	19.192	23.649	26.359	82	100
	Late seral	40.693	100	9.987	16.414	20.654	23.089	26.371	30.586	34.549	61	
AREA_AM	Early seral	1450.315	62	181.765	321.086	444.458	1010.743	2025.267	3006.954	3843.705	266	0
	Late seral	282.408	37	52.617	157.345	227.955	338.142	663.368	1131.288	1559.020	288	
GYRATE_AM	Early seral	1730.672	72	556.206	783.058	997.968	1404.611	1848.950	2298.480	2691.484	108	11
	Late seral	1186.979	81	336.019	578.951	708.403	850.573	1104.466	1399.318	1596.181	96	
SHAPE_MN	Early seral	1.976	100	1.784	1.813	1.849	1.873	1.895	1.929	1.946	6	100
	Late seral	2.060	100	1.672	1.811	1.871	1.896	1.914	1.938	1.974	7	
SHAPE_AM	Early seral	5.539	55	3.007	3.595	4.083	5.339	6.534	7.723	8.683	77	0
	Late seral	3.896	50	2.458	3.116	3.465	3.907	4.830	5.666	6.486	65	
CPLAND	Early seral	13.161	100	3.863	5.166	6.436	7.686	9.317	10.669	12.069	72	100
	Late seral	0.548	0	1.247	2.368	3.615	4.827	5.907	6.958	8.390	95	
CORE_MN	Early seral	41.336	100	5.589	7.268	9.278	11.467	14.231	17.779	20.328	92	100
	Late seral	29.233	100	7.272	11.084	14.641	16.722	19.748	23.293	26.670	73	
CORE_AM	Early seral	1266.930	62	146.841	263.368	368.229	864.307	1778.477	2648.386	3413.343	276	0

	Late seral	242.336	39	38.943	125.246	189.362	284.881	593.512	1028.176	1432.664	317	
CAI_MN	Early seral	45.637	100	19.048	20.868	23.504	25.784	28.262	31.173	35.340	40	52
	Late seral	43.823	24	39.161	41.098	43.892	46.518	49.556	54.445	71.694	29	
CAI_AM	Early seral	76.937	99	65.983	67.845	70.322	72.900	74.591	76.093	77.578	11	48
	Late seral	71.839	40	63.376	66.299	70.213	73.013	75.399	77.874	82.011	16	
PROX_MN	Early seral	447.180	80	35.405	65.004	116.259	212.255	416.860	580.284	760.382	243	20
	Late seral	65.892	20	18.377	43.042	73.228	107.973	233.328	387.632	554.427	319	
PROX_AM	Early seral	1477.028	64	118.529	221.685	424.409	1100.760	1967.555	3332.954	4761.435	283	0
	Late seral	362.673	61	39.026	75.090	161.825	272.926	577.814	1186.668	2434.632	407	
CWED	Early seral	6.706	69	3.703	4.809	5.573	6.168	6.858	7.877	8.757	50	50
	Late seral	0.363	0	0.859	1.832	2.572	3.163	3.568	4.055	5.222	70	
TECI	Early seral	38.435	45	33.993	36.099	37.559	38.585	39.529	40.968	42.722	13	40
	Late seral	36.819	95	24.283	28.272	30.960	32.446	34.165	36.787	39.204	26	
CLUMPY	Early seral	0.924	100	0.868	0.877	0.888	0.896	0.903	0.909	0.914	4	100
	Late seral	0.924	100	0.876	0.892	0.899	0.903	0.908	0.912	0.918	2	
IJI	Early seral	79.701	100	60.194	64.305	66.929	68.603	70.406	73.325	76.281	13	62
	Late seral	81.431	81	73.825	76.385	78.252	79.545	80.951	82.802	87.459	8	

Summary Indices⁶:

<i>Seral-Stage Departure Index</i>	100
<i>Class Configuration Departure Index</i>	52
<i>Cover Type Departure Index</i>	76

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.