

Table. Coefficient of variation in landscape structure under the simulated HRV disturbance scenario in relation to the landscape extent on the San Juan National Forest, Colorado. Coefficient of variation in the simulated distribution is computed as the difference between the 5th and 95th percentiles divided by the median and multiplied by 100 to convert to a percentage; it represents a measure of relative variability in each landscape metric. Missing value indicates the absence of a particular cover type and stand condition (seral stage) in that landscape.

	Landscape						
	SJNF	Columbine	Pagosa	Dolores	Hermosa	Piedra	Narraguinnep
<i>Landscape extent (ha)</i>	847,638	308,829	282,511	256,298	44,103	39,487	31,818
<i>Landscape Composition</i> ¹							
PJ: Herb Dominated	474	1214	796	1304	-	-	5971
PJ: Herbs - Shrubs	161	266	214	246	-	-	429
PJ: Shrubs - Trees	112	157	132	152	-	-	186
PJ: Tree Dominated	183	496	256	165	-	-	211
PJS: Herb Dominated	503	1202	1338	1995	-	-	16224
PJS: Herbs - Shrubs	148	201	247	287	670	-	663
PJS: Shrubs - Trees	114	152	150	173	199	-	222
PJS: Tree Dominated	185	330	306	147	1483	-	198
PJOS: Herb Dominated	746	2684	1493	1801	-	-	5156
PJOS: Herbs - Shrubs	181	348	221	275	-	-	403
PJOS: Shrubs - Trees	118	165	152	137	-	-	202
PJOS: Tree Dominated	236	1024	440	212	-	-	325
MTS: Herbs - Shrubs	119	191	220	174	471	427	302
MTS: Early Shrub Dominated	99	163	156	144	343	299	272
MTS: Late Shrub Dominated	51	67	86	87	138	80	193
PPO: Stand Initiation	85	97	88	84	230	117	95
PPO: Stem Exclusion	58	67	61	62	216	99	79
PPO: Understory Reinitiation	47	65	61	56	251	97	69
PPO: Shifting Mosaic	128	182	177	165	526	196	253
PPO: Fire Maintained Open Canopy	37	56	59	40	92	100	58
PPOA: Stand Initiation	168	183	190	182	322	251	225
PPOA: Stem Exclusion	88	92	92	95	133	116	113
PPOA: Understory Reinitiation	64	68	72	75	138	90	92
PPOA: Shifting Mosaic	104	152	127	150	185	157	291
PPOA: Fire Maintained Open Canopy	40	67	62	52	118	117	73
WMC: Stand Initiation	101	133	132	137	289	246	297
WMC: Stem Exclusion	41	51	49	63	96	110	115
WMC: Understory Reinitiation	32	44	53	49	81	88	78
WMC: Shifting Mosaic	95	114	115	106	227	129	187
WMC: Fire Maintained Open Canopy	48	59	61	56	108	157	92

WMCA: Stand Initiation	104	138	146	174	284	291	300
WMCA: Stem Exclusion	53	72	74	92	123	149	168
WMCA: Understory Reinitiation	38	47	54	154	88	97	115
WMCA: Shifting Mosaic	76	109	109	114	162	141	304
WMCA: Fire Maintained Open Canopy	51	71	69	93	132	161	96
CMC: Stand Initiation	126	170	175	242	353	512	-
CMC: Stem Exclusion	61	75	85	122	160	186	-
CMC: Understory Reinitiation	86	97	108	146	173	193	-
CMC: Shifting Mosaic	88	82	110	143	147	127	-
CMCA: Stand Initiation	196	310	275	505	769	878	927
CMCA: Stem Exclusion	92	134	134	237	334	280	258
CMCA: Understory Reinitiation	46	70	60	106	129	116	484
CMCA: Shifting Mosaic	80	103	105	177	199	206	n/d
ASP: Stand Initiation	206	325	200	268	947	668	284
ASP: Stem Exclusion	164	262	165	224	583	397	285
ASP: Understory Reinitiation	116	193	147	156	369	403	228
ASP: Shifting Mosaic	63	90	74	80	148	138	247
SF: Stand Initiation	124	175	162	276	313	440	292
SF: Stem Exclusion	95	107	146	212	299	261	785
SF: Understory Reinitiation	105	121	171	174	247	263	923
SF: Shifting Mosaic	85	88	145	145	181	212	-
SFA: Stand Initiation	352	526	477	741	2289	3019	-
SFA: Stem Exclusion	140	172	181	270	444	605	-
SFA: Understory Reinitiation	69	78	80	110	154	175	-
SFA: Shifting Mosaic	96	100	98	172	206	183	-
MS: Herbs - Shrubs	74	86	88	105	244	262	137
MS: Shrubs - Herbs	118	185	145	150	148	115	154
Average	131	247	200	247	332	297	831
<i>Landscape Configuration²</i>							
Patch density	37	37	38	42	53	55	46
Edge density	19	20	21	21	33	34	28
Mean patch size	46	41	46	52	64	75	53
Area-weighted mean patch size	55	44	45	53	154	146	97
Correlation length	19	18	23	22	48	54	44
Mean shape index	3	3	3	4	6	6	3
Area-weighted mean shape index	12	15	13	20	26	33	44
Mean core area	46	40	47	55	69	79	58
Area-weighted mean core area	54	44	45	55	156	140	98
Mean core area index	22	30	26	27	64	50	33
Area-weighted mean core area index	4	6	6	6	15	9	10

Mean proximity index	39	42	47	50	69	138	105
Area-weighted mean proximity index	73	56	95	109	155	170	115
Contrast-weighted edge density	13	17	16	18	47	26	27
Total edge contrast index	14	19	18	16	48	26	22
Contagion	4	4	5	5	10	8	13
Interspersion & juxtaposition index	6	7	6	5	12	12	12
Simpson's diversity index	1	1	1	1	4	3	7
Simpson's evenness index	1	1	1	1	4	3	7
Average	25	23	26	30	55	56	43

¹Landscape composition represents the distribution of area among patch types (in this case, unique combinations of cover type and seral stage). Only dynamic patch types (i.e., those that change in area over time in response to disturbance and succession) are included here; static patch types (i.e., those that we treated as constant over time, such as water, barren, etc.) are excluded since they cannot exhibit any variability. PJ = pinyon-juniper woodland; PJS = pinyon-juniper sagebrush woodland; PJOS = pinyon-juniper oak-serviceberry woodland; MTS = mountain shrubland; PPO = ponderosa pine oak forest; PPOA = ponderosa pine oak-aspen forest; WMC = warm, dry mixed-conifer forest; WMCA = warm, dry mixed-conifer with aspen forest; CMC = cool, moist mixed-conifer forest; CMCA = cool, moist mixed conifer with aspen forest; ASP = pure aspen forest; SF = spruce-fir forest; SFA = spruce-fir with aspen forest; MS = mesic sagebrush.

²Landscape configuration represents the spatial character, distribution, and arrangement of patches (across all patch types). The landscape metrics listed here are described in detail in the FRAGSTATS methods section. Note, Simpson's diversity and evenness indices are actually landscape composition metrics but are included here for organizational purposes.