

Table. Departure of the current landscape structure from the simulated HRV disturbance scenario in relation to the landscape extent on the San Juan National Forest, Colorado. 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).

	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	0	0	0	0	-	-	0
PJ: Herbs - Shrubs	52	0	34	41	-	-	0
PJ: Shrubs - Trees	100	87	100	100	-	-	81
PJ: Tree Dominated	96	78	92	72	-	-	95
PJS: Herb Dominated	0	0	0	0	100	-	42
PJS: Herbs - Shrubs	0	0	16	89	100	-	26
PJS: Shrubs - Trees	100	72	99	100	0	-	80
PJS: Tree Dominated	100	97	100	0	92	-	0
PJOS: Herb Dominated	0	0	0	0	-	-	0
PJOS: Herbs - Shrubs	0	0	0	0	-	-	0
PJOS: Shrubs - Trees	14	0	97	0	-	-	0
PJOS: Tree Dominated	82	98	100	0	-	-	0
MTS: Herbs - Shrubs	99	95	83	16	82	96	0
MTS: Early Shrub Dominated	92	76	0	83	0	0	41
MTS: Late Shrub Dominated	100	100	100	100	91	100	42
PPO: Stand Initiation	0	48	0	78	100	100	100
PPO: Stem Exclusion	100	100	100	100	100	100	100
PPO: Understory Reinitiation	100	100	100	100	96	100	99
PPO: Shifting Mosaic	100	100	98	100	100	100	64
PPO: Fire Maintained Open Canopy	100	100	100	100	100	100	100
PPOA: Stand Initiation	85	50	100	100	100	100	100
PPOA: Stem Exclusion	71	0	21	97	0	50	97
PPOA: Understory Reinitiation	100	100	100	100	100	100	100
PPOA: Shifting Mosaic	100	100	100	100	100	100	100
PPOA: Fire Maintained Open Canopy	100	100	100	100	100	100	100
WMC: Stand Initiation	0	100	100	100	100	100	100
WMC: Stem Exclusion	100	100	100	100	100	100	30
WMC: Understory Reinitiation	100	100	100	100	100	100	100
WMC: Shifting Mosaic	100	100	100	100	83	100	100

WMC: Fire Maintained Open Canopy	100	100	100	100	100	100	100
WMCA: Stand Initiation	0	94	100	100	100	100	100
WMCA: Stem Exclusion	85	78	100	87	88	90	100
WMCA: Understory Reinitiation	100	100	100	100	100	100	100
WMCA: Shifting Mosaic	100	100	100	100	100	100	100
WMCA: Fire Maintained Open Canopy	100	100	100	100	100	100	100
CMC: Stand Initiation	100	82	100	100	26	100	-
CMC: Stem Exclusion	42	58	36	94	4	0	-
CMC: Understory Reinitiation	100	100	100	80	100	100	-
CMC: Shifting Mosaic	100	100	100	100	100	100	-
CMCA: Stand Initiation	66	0	100	93	100	93	100
CMCA: Stem Exclusion	100	100	91	0	100	0	100
CMCA: Understory Reinitiation	100	100	100	100	100	100	100
CMCA: Shifting Mosaic	100	100	100	100	100	100	100
ASP: Stand Initiation	100	55	100	100	100	100	100
ASP: Stem Exclusion	0	0	0	0	0	38	0
ASP: Understory Reinitiation	100	96	99	100	92	88	82
ASP: Shifting Mosaic	69	0	95	53	0	100	0
SF: Stand Initiation	99	92	100	0	71	96	100
SF: Stem Exclusion	73	70	0	76	60	90	100
SF: Understory Reinitiation	100	100	100	43	38	0	100
SF: Shifting Mosaic	100	100	100	100	100	100	100
SFA: Stand Initiation	80	3	100	100	100	100	-
SFA: Stem Exclusion	89	72	44	50	0	0	-
SFA: Understory Reinitiation	100	100	100	100	100	91	-
SFA: Shifting Mosaic	100	100	100	100	100	100	-
MS: Herbs - Shrubs	82	26	5	61	100	100	0
MS: Shrubs - Herbs	83	26	6	62	100	100	0

Landscape Configuration²

Patch density	100	100	100	100	100	100	100
Edge density	100	100	100	100	100	100	100
Mean patch size	100	100	100	100	100	100	100
Area-weighted mean patch size	100	100	100	100	100	100	100
Correlation length	100	100	100	100	100	100	100
Mean shape index	100	100	100	100	100	100	100
Area-weighted mean shape index	98	98	59.6	100	0	0	100
Mean core area	100	100	100	100	100	100	100
Area-weighted mean core area	100	100	100	100	100	100	100
Mean core area index	47	100	0	0	89	0	0
Area-weighted mean core area index	100	100	100	100	100	100	100

Mean proximity index	100	100	100	90	100	0	0
Area-weighted mean proximity index	80	87	100	0	49	100	90
Contrast-weighted edge density	100	100	100	100	100	100	100
Total edge contrast index	100	100	100	100	54	100	100
Contagion	100	100	100	100	100	97	85
Interspersion & juxtaposition index	0	0	60	48	0	56	100
Simpson's diversity index	100	100	100	100	100	67	30
Simpson's evenness index	100	100	100	100	100	35	10
Summary Indices ³							
<i>Landscape Composition Departure Index</i>	76	69	76	73	80	85	67
<i>Landscape Configuration Departure Index</i>	91	94	91	86	84	77	80
<i>Landscape Structure Departure Index</i>	84	82	83	80	82	81	73

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.

³Landscape composition departure index = mean departure index across cover types; landscape configuration departure index = mean departure index across landscape configuration metrics; landscape structure departure index = mean of the landscape composition and configuration indices.