11/4/03 DRAFT

Fire Regime Condition Class (FRCC) Interagency Handbook Reference Conditions

Modeler: Kelly Pohl Date: 8/12/03 PNVG Code: DFIR2

Potential Natural Vegetation Group: Douglas-fir Interior.

Geographic Area: Northern and Central Rocky Mountains.

Description: PNVG generally occurs on moderate to steep slopes on northerly aspects in mid- to high-elevation zones. Can occur in rocky, mesic sites with lodgepole pine, western larch, and some true firs.

Fire Regime Description: Fire Regime I, primarily short- to moderately long interval (e.g., 30 yr MFI) mixed severity fires.

Vegetation Type and Structure

Class	Percent of	Description	
	Landscape	·	
A: post	15	Grasses, forbs, and seedling to pole-sized	
replacement		aspen and lodgepole pine	
B: mid- development	25	>50% Sapling to pole-sized lodgepole pine	
		and larch; sapling-sized Douglas-fir; some	
closed		patches of aspen	
C: mid- open	20	5 51 1 1	
		open understory; true firs, aspen, and larch in	
		patches	
D: late- open	25	<50% large Douglas-fir with open understory;	
		patches of true firs, lodgepole pine, larch, and	
		aspen	
E: late- closed	15	>50% large, even-aged Douglas-fir with true	
		firs, little understory	
Total	100		

Fire Frequency and Severity

and the question of the training				
	Fire Frequency-	Modeled	Pct, All	Description
	Severity	Probability	Fires	
	Replacement Fire	.003	10	Mostly crown fire with true-firs at
				higher elevations in B and E.
	Non-Replacement	.03	90	Mostly mosaic fires in C and D,
	Fire			occasional mosaic fires in lodgepole
				stands in B and E; infrequent

100

References

Agee, James K. 1993. Fire Ecology of Pacific Northwest Forests. Washington, D.C.: Island Press. 493 p.

Arno, S.F. 1980. Forest fire history in the northern Rockies. Journal of Forestry (78): 460-465.

Barrett, S. W., S. F. Arno, and J. P. Menakis. 1997. Fire episodes in the inland Northwest (1540-1940) Based on Fire History Data. USDA, Forest Service, Intermountain Research Station. General Technical Report INT-370.

Brown, James K.; Smith, Jane Kapler, eds. 2000. Wildland fire in ecosystems: effects of fire on flora. Gen. Tech. Rep. RMRS-GTR-42-vol. 2. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 257 p

Brown, James K., Arno, Stephen F., Barrett, Stephen W., and Menakis, James P. 1994. Comparing the prescribed natureal fire program with presettlement fires in the Selway-Bitterrot Wilderness. International Journal of Wildland Fire 4(3): 157-168.

Keane, Robert E., Arno, Stephen F., and Brown, James K. 1990. Simulating cumulative fire effects in ponderosa pine/Douglas-fir forests. Ecology 71(1): 189-203.

Peet, R. K. 1988. Forests of the Rocky Mountains. In: M. G. Barbour and W. D. Billings, eds. Terrestrial vegetation of North America. Cambridge: Cambridge University Press. Pp. 64-102

Schmidt, Kirsten M, Menakis, James P., Hardy, Colin C., Hann, Wendel J., Bunnell, David L. 2002. Development of coarse-scale spatial data for wildland fire and fuel management. Gen. Tech. Rep. RMRS-GTR-87. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 41 p. + CD.

U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (2002, December). Fire Effects Information System, [Online]. Available: http://www.fs.fed.us/database/feis. [Accessed 01/08/03].

MODELER FIELD REVIEWS

^{*}Sum of replacement fire and non-replacement fire probabilities.

Pohl, Kelly. Centennial Mountains, Montana (Red Rock Lakes NWR, State of Montana, BLM Wilderness Study Area, private land). 2001. Results available at http://web.pdx.edu/~kellyp/centennial.

VDDT RESULTS







