

****11/4/03 DRAFT****

**Fire Regime Condition Class (FRCC) Interagency Handbook
Reference Conditions**

Modeler: Wendel Hann

Date: 8/14/03

PNVG Code: PGRA1

Potential Natural Vegetation Group: Northern Plains Grassland (Without Trees or Shrubs).

Geographic Area: Great Plains.

Description: PNVG generally occurs on gentle (<30%) undulating terrain.

Fire Regime Description: Fire Regime II, primarily short-interval (e.g., <15 yr) stand replacement fires.

Vegetation Type and Structure

Class	Percent of Landscape	Description
A: post replacement	15	Post-fire forb-grass communities; fire-adapted forbs from seed bank and cool season and warm season rhizomatous grass species regrowth
B: mid-development closed	25	Young low to medium height grass-forb with moderate to high canopy cover of upper grass layer
C: mid- open	15	Young low to medium height grass-forb with low to moderate canopy cover of grass
D: late- open	30	Mature medium to tall with low to moderate canopy cover of grass
E: late- closed	15	Mature medium to tall with low to moderate canopy cover of grass
Total	100	

Fire Frequency and Severity

Fire Frequency-Severity	Modeled Probability	Pct, All Fires	Description
Replacement Fire	.075	80	Consumes grass layer
Non-Replacement Fire	.015	20	All mosaic type fires
All Fire Frequency*	.09	100	

*Sum of replacement fire and non-replacement fire probabilities.

References

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.

Hardy, Colin C., Kirsten M. Schmidt, James P. Menakis, R. Neil Samson. 2001. Spatial data for national fire planning and fuel management. Int. J. Wildland Fire. 10(3&4): 353-372.

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/> [User, supply access date here].

PERSONAL COMMUNICATION

Rau, Larry, Miles City, MT BLM. March 2000.

MODELER FIELD REVIEWS *NEED TO DOCUMENT BETTER BELOW?

Hann, Wendel J. Miles City, Montana. 2000 and 2001.

Hann, Wendel J. Eastern Colorado. 2001.

VDDT RESULTS





