

Appendix 2. Effects of wildfire and forest management in vegetation descriptors.

Table A2.1. Changes in canopy cover and surface fuels as a function of wildfire severity and treatment action.

Disturbance	Effect on canopy cover	Effect on surface fuels
Surface fire or prescribed fire	No change	Reduces surface fuels
Mixed severity fire	Decreases canopy cover by one or two classes	Reduces surface fuels
Stand-replacing fire	Decreases canopy cover to low (20%) or none	Reduces surface fuels
Surface treatments	No change	Increases surface fuels
Thinning	Decreases canopy cover from high (>60%) to moderate (60-40%)	Increases surface fuels
Clear cut	Decreases canopy cover to low (20%) or none	Increases surface fuels
Partial harvest (heavy)	Decreases canopy cover by one or two classes	Increases surface fuels

Table A2.2. Fuel model codes assigned to post-disturbance conditions. All models are described in Scott and Burgan (2005) with exception of MAST, a custom fuel model for masticated fuel beds.

Baseline	Surface fire or prescribed fire	Mixed severity fire	Stand-replacing fire	Mastication	Thinning
Until transition/ disturbance	10 years	10 years	10 years	5 years	5 years
NB3	NB3	NB3	NB3	NB3	NB3
NB8	NB8	NB8	NB8	NB8	NB8
GR1	TL1	GR1	TL1	GR1	GR1
GR2	TL2	GR2	TL1	GR2	GR2
GR3	TL2	GR2	TL1	GR2	GR3
GS1	TL2	GS1	TL1	MAST	TL5
GS2	TL2	GR2	TL1	MAST	TL5
SH1	TL2	GS1	TL1	MAST	TL5
SH2	TL2	GS2	TL1	MAST	TL5
TU1	TL2	GR2	TL1	MAST	TL5
TU4	TL1	TL1	TL1	MAST	TL5
TU5	TL1	TL1	TL1	MAST	TL5
TL1	TL1	TL1	TL1	MAST	TL5
TL2	TL1	TL1	TL1	MAST	TL5
TL3	TL1	TL1	TL1	MAST	TL5

TL4	TL1	TL1	TL1	MAST	TL5
TL5	TL1	TL1	TL1	MAST	TL5
TL6	TL1	TL1	TL1	MAST	TL5
TL7	TL1	TL1	TL1	MAST	TL5
TL8	TL1	TL1	TL1	MAST	TL5
TL9	TL1	TL1	TL1	MAST	TL5

LITERATURE CITED

Scott, J. H. and R. E. Burgan. 2005. Standard fire behavior fuel models: a comprehensive set for use with Rothermel's surface fire spread model. Gen. Tech. Rep. RMRS-GTR-153, USDA Forest Service, Rocky Mountain Research Station.