

**Sampling Event Codes**

Code	Event
<i>P_n</i>	Preburn measurement, sequential sample number.
<i>R_n</i>	Postburn remeasurement of a plot, sequential sample number.
<i>C_n</i>	Control plot measurement, sequential sample number.
IV	Inventory plot, not a monitoring plot.

Common Landforms

Code	Landform
GMF	Glaciated mountains-foothills
UMF	Unglaciated mountains-foothills
BRK	Breaklands-river breaks-badlands
PLA	Plains-rolling planes-plains w/breaks
VAL	Valleys-swales-draws
HIL	Hill-low ridges-benches
X	Did not assess

Vertical and Horizontal Slope Shape.

Code	Slope shape
LI	Linear or planar
CC	Depression or concave
PA	Patterned
CV	Rounded or convex
FL	Flat
BR	Broken
UN	Undulating
OO	Other shape
X	Did not assess

Primary Geologic Codes

Primary code	Rock type 1
IGEX	Igneous Extrusive
IGIN	Igneous Intrusive
META	Metamorphic
SEDI	Sedimentary
UNDI	Undifferentiated
X	Did not assess

FIREMON PD Cheat Sheet

Secondary Geologic Codes

Secondary code	Rock type 2
ANDE	Andesite
BASA	Basalt
LATI	Latite
RHYO	Rhyolite
SCOR	Scoria
TRAC	Trachyte
DIOR	Diorite
GABB	Gabbro
GRAN	Granite
QUMO	Quartz Monzonite
SYEN	Syenite
GNEI	Gneiss
PHYL	Phyllite
QUAR	Quartzite
SCHI	Schist
SLAT	Slate
ARGI	Argillite
CONG	Conglomerate
DOLO	Dolomite
LIME	Limestone
SANS	Sandstone
SHAL	Shale
SILS	Siltstone
TUFA	Tufa
MIEXME	Mixed Extrusive and Metamorphic
MIEXSE	Mixed Extrusive and Sedimentary
MIIG	Mixed Igneous (extrusive & intrusive)
MIIGME	Mixed Igneous and Metamorphic
MIIGSE	Mixed Igneous and Sedimentary
MIINME	Mixed Intrusive and Metamorphic
MIINSE	Mixed Intrusive and Sedimentary
MIMESE	Mixed Metamorphic and Sedimentary
X	Did not assess

FIREMON PD Cheat Sheet

Soil Types

Code	Description	Code	Description
C	Clay	S	Sand
CL	Clay loam	SC	Sandy clay
COS	Coarse sand	SCL	Sandy clay loam
COSL	Coarse sandy loam	SI	Silt
FS	Fine sand	SIC	Silty clay
FSL	Fine sandy loam	SICL	Silty clay loam
L	Loam	SIL	Silt loam
LCOS	Loamy coarse sand	SL	Sandy loam
LFS	Loamy fine sand	VFS	Very fine sand
LS	Loamy sand	VFSL	Very fine sandy loam
LVFS	Loamy very fine sand	X	Did not assess

Erosion Type Types

Code	Erosion type
S	Stable, no erosion evident
R	Water erosion, rill
H	Water erosion, sheet
G	Water erosion, gully
T	Water erosion, tunnel
W	Wind erosion
O	Other type of erosion
X	Did not assess

Erosion Severity Codes

Code	Erosion severity
0	Stable, no erosion is evident.
1	Low erosion severity; small amounts of material are lost from the plot. On average less than 25 percent of the upper 8 in. (20 cm) of soil surface have been lost across the macroplot. Throughout most of the area the thickness of the soil surface layer is within the normal range of variability of the uneroded soil.
2	Moderate erosion severity; moderate amounts of material are lost from the plot. On average between 25 and 75 percent of the upper 8 in. (20 cm) of soil surface have been lost across the macroplot. Erosion patterns may range from small, uneroded areas to small areas of severely eroded sites.
3	High erosion severity; Large amounts of material are lost from the plot. On average 75 percent or more of the upper 8 in. (20 cm) of soil surface have been lost across the macroplot. Material from deeper horizons in the soil profile is visible.
4	Very high erosion severity; Very large amounts of material are lost from the plot. All of the upper 8 in. (20 cm) of soil surface have been lost across the macroplot. Erosion has removed material from deeper horizons of the soil profile throughout most of the area.
-1	Unable to assess

FIREMON PD Cheat Sheet

Cover Classes

Code	Canopy cover
0	Zero percent canopy cover
0.5	>0-1 percent of canopy cover
3	>1-5 percent canopy cover
10	>5-15 percent canopy cover
20	>15-25 percent canopy cover
30	>25-35 percent canopy cover
40	>35-45 percent canopy cover
50	>45-55 percent canopy cover
60	>55-65 percent canopy cover
70	>65-75 percent canopy cover
80	>75-85 percent canopy cover
90	>85-95 percent canopy cover
98	>95-100 percent canopy cover

Potential Lifeform Codes

Code	Potential lifeform
AQ	Aquatic -- Lake, pond, bog, river
NV	Non-vegetated -- Bare soil, rock, dunes, scree, talus
CF	Coniferous upland forest -- Pine, spruce, hemlock
CW	Coniferous wetland or riparian forest -- Spruce, larch
BF	Broadleaf upland forest -- Oak, beech, birch
BW	Broadleaf wetland or riparian forest -- Tupelo, cypress
SA	Shrub dominated alpine -- Willow
SU	Shrub dominated upland -- Sagebrush, bitterbrush
SW	Shrub dominated wetland or riparian -- Willow
HA	Herbaceous dominated alpine -- Dryas
HU	Herbaceous dominated upland -- grasslands, bunchgrass
HW	Herbaceous dominated wetland or riparian -- ferns
ML	Moss or lichen dominated upland or wetland
OT	Other potential vegetation lifeform
X	Did not assess

FIREMON PD Cheat Sheet

Plot Level Fire Severity Codes

FIRE SEVERITY CODE	Substrate	Forest Vegetation	Shrubland Vegetation	Grassland Vegetation
Unburned (5)	Not burned	Not burned	Not burned	Not burned
Scorched (4)	Litter partially blackened; duff nearly unchanged; wood/leaf structures unchanged	Foliage scorched and attached to supporting twigs.	Foliage scorched and attached to supporting twigs.	Foliage scorched
Lightly Burned (3)	Litter charred to partially consumed; upper duff layer may be charred but the duff is not altered over the entire depth; surface appears black; where litter is sparse charring may extend slightly into soil surface but soil is not visibly altered; woody debris partially burned; logs are scorched or blackened but not charred; rotten wood is scorched to partially burned.	Foliage and smaller twigs partially to completely consumed; branched mostly intact.	Foliage and smaller twigs partially to completely consumed; branched mostly intact; typically, less than 60 percent of the shrub canopy is consumed.	Grasses with approximately two inches of stubble; foliage and smaller twigs of associated species partially to completely consumed; some plant parts may still be standing; bases of plants are not deeply burned and are still recognizable.
Moderately Burned (2)	Litter mostly to entirely consumed, leaving coarse, light colored ash (ash soon disappears, leaving mineral soil); duff deeply charred, but not visibly altered; woody debris is mostly consumed; logs are deeply charred, burned out stump holes are evident.	Foliage twigs and small stems consumed; some branches still present.	Foliage twigs and small stems consumed; some branches smaller (0.25-0.50 in.) still present; typically, 40 to 80 percent of the shrub canopy is consumed.	Unburned grass stubble usually less than two inches tall, and mostly confined to an outer ring; for other species, foliage completely consumed, plant bases are burned to ground level and obscured in ash immediately after burning.
Heavily burned (1)	Litter and duff completely consumed, leaving fine white ash (ash disappears leaving mineral soil); mineral soil charred and/or visibly altered, often reddish; sound logs are deeply charred, and rotten logs are completely consumed.	All plant part consumed, leaving some or no major stems or trunks; any left are deeply charred.	All plant parts consumed leaving only stubs greater than 0.5 in. in diameter.	No unburned grasses above the root crown; for other species, all plant parts consumed.
Not Applicable (0)	Only inorganic material on site before burn.	None present at time of burn.	None present at time of burn.	None present at time of burn

FIREMON PD Cheat Sheet

Precision

Component	Standard
Latitude	± 0.000001 degree
Longitude	± 0.000001 degree
Northing	± 1 meter
Easting	± 1 meter
Elevation	± 100 ft/30 m
Aspect	± 5 degrees
Slope	± 5 percent
All cover estimates	± 1 class
Stand Height	± 3 ft/1 m
Canopy Fuel Base Height	± 1 ft/0.3 m
Flame Length	± 0.5 ft/0.2 m
Spread rate	± 1 ft/min. or 0.3 m/min.
Severity Class	± 1 class