

Landowner
29 MU's.

Transsects

13 UB	Alluvial terraces	cut unit	Rel. 250 high	61MDL0
26 UA	Rock droughty, ^{chap} 2715		37189 high	30MC L0.
30 MC ^{dry}			7789	Unb 32QA L05
30 MD ^{moist}	mt side slopes 30-55°			
30 ME				
30 QA ^{open}				
30 QC ^{dry}				
30 QD ^{moist}				
30 QE				
32 MA	ridges gl. & tect.			
32 QA	gl. & tect. op.			
3 UA	ridges & lots of churning, lots of rock compact.			
40 QA	cirques			
41 QA	sub alpin ridges hoodoos			
42 QA	cirque bottoms.			
43 QB	cirques			
45 UA	Avalanche chutes			
46 OA	glacial trains			
47 OA	ii > 35°/51			
48 QA	ii trough walls			
60 MD	stream & rk level			
60 QC				
61 MD ^{moist}	dissected str bndls			
64 MC ^{dry}	stp. mt slps. > 55%			
6 MD ^{moist}				
64 ME				
64 QA				
64 QD ^{moist}				
64 QE				

mod & up
32MAJ
30MCS
30QC

Soil Quality Field Evaluation Form
7.01

Region: / State: MT Forest: Lolo District: Superior

Project/Area being evaluated: Landowner burn area of the 2000 fy fires

Evaluation Date: 7-28-01 Evaluating person/crew: Laura Hudnell + Bear (the dog)

Areal extent method: Visual - Transect- 100' with stops every 10' LOI

Monitoring method: Visual - N/A Measured - N/A

Sampling Technique: Observed - yes Measured - yes, with ruler

Photos: NO

Soil Quality Disturbance Evaluation Criteria							
LSI	Displacement	Rutting	Compaction	Severely Burned	Above Ground Organic Matter	Surface Erosion Hazard	Mass Movement Hazard
6/100	NO	NO	NO	yes ^{cherty}	4.25"	some ^{sheet} erosion	NO
6/100	NO	NO	NO	yes	4.25"	sheet	NO
6/100	NO	NO	NO	yes	4.25"	sheet ^{partial}	NO
6/100	NO	NO	NO	yes	1.5"	NO	NO
6/100	NO	NO	NO	yes	1.5"	NO	NO
6/100	NO	NO	NO	mod	1.5"	NO	NO
6/100	NO	NO	NO	yes	4.25	sheet	NO
6/100	NO	NO	NO	low	1.1"	NO	NO
6/100	NO	NO	NO	yes	4.25	NO	NO
6/100	NO	NO	NO	yes	4.25	not seen	NO

- no talus, small amt. of rock outcrop.
- some areas with little or no om. should have about 2.
- stop 6 may be inclusion as there is little or no loess surface layer. All others have at 8-14" loess surface layer with 20-30% gravel/cb in surface.
- Some areas that have no severe burning. most of area is ash and or blackend with some orange chert.
- Because of stream + severe burning there is a concern for erosion here.

Soil Quality Field Evaluation Form
7.01

Region: 1 State: MT Forest: Lolo District: Superior

Project/Area being evaluated: Landowner burn areas 2000 FY Fires

Evaluation Date: 7/28/01 Evaluating person/crew: Laura Hudnell & Bear (the dog)

Areal extent method: Visual - ✓ Transect- 100' E steps @ 10' LOS

Monitoring method: Visual - N/A Measured - N/A

Sampling Technique: Observed - ✓ Measured - ✓ E tubes

Photos: No.

Soil Quality Disturbance Evaluation Criteria							
LSI	Displacement	Rutting	Compaction	Severely Burned	Above Ground Organic Matter	Surface Erosion Hazard	Mass Movement Hazard
320A	N	N	N	N	1	N	N
"	N	N	N	N	.75	partial	N
"	N	N	N	N	.75	partial	N
	N	N	N	N	1	N	N
	Cobble	N				N	N
320A	N	N	N	N	1	N	N
	Rock (stone)						N
320A	N	N	N	N	1.50	N	N
320A	N	N	N	N	1.50	N	N
320A	N	N	N	N	1	N	N

- off of rd. 7789. Started a bit outside the project boundary. from the rd. steps 1-4. The rest well inside the project boundary. Clearly in unburned areas. It's a small drainage. no major erosion noted as viewed from the ridge. Small area of rock on surface.
- lots of sandy soil. veg ~ 80-85% in most areas. Very deep loess material. very fine sands & silts.

Soil Quality Field Evaluation Form
7.01

Region: 1 State: MT Forest: ~~Sap~~ Lolo District: Superior
 Project/Area being evaluated: Landowner burn area of 2000 fy fires
 Evaluation Date: 7.26.01 Evaluating person/crew: Laura Hudnell + Bear (the dog)
 Areal extent method: Visual - Transect- 100' c stops @ 10' LO2
 Monitoring method: Visual - N/A Measured - N/A
 Sampling Technique: Observed - Measured - water.
 Photos: no

Soil Quality Disturbance Evaluation Criteria							
LSI	Displacement	Rutting	Compaction	Severely Burned	Above Ground Organic Matter	Surface Erosion Hazard	Mass Movement Hazard
30mc	N	N	N	Y	1.5	shrub	N
30mc	N	N	N	Y	1.5	N	N
30m	N	N	* ? some comp	Y	1.5	red soil	N
	cobble						N
30m	N	N	N	Y	1.5	N	N
30mc	N	N	N	Y	1.5	red soil	N
"	N	N	N	Y	1.5	"	N
"	N	N	"	Y	1.5	"	N
"	N	N	"	Y	1.5	N	N
"	N	N	"	Y	1.5	N	N

- off rd. 37189. It's a high soil burn severity area. Easy to see the high c in the mod. burn severity. no hyprob. noted just after the intersection with rd. 37188.
 - soils very dry. are. veg cover even in mod. burn & unburn is low ~65-75%
 - Found the ban layer ~ at about 6". silty, further down. lots of wash on surface. Some orange clay in upper 2" of profile. lots of gravel through profile
 - * evidence of animals but no other compaction.
- 3 of the soils feel into the typic Eutroboralfs, L-Sk, md, ft. Some, the first few stops seemed to have more silt & may be the typic Eutrochrepts.