

Montana Soils -----

Preliminary Lab Data:

Field Notes:

Transect	Color (dry)	Moisture Content (%)	pH (w/DI <sub>H2O</sub> )	pH (w/CaCl <sub>2</sub> -0.01M)	LOI (%)	Slope (°)	Parent Material	Horizon thickness (cm)	Root Zone (cm)	Field Soil Texttrue	Vegetation Cover
<b>Quaternary deposits along South Boulder River, at IU Geologic Field station, MT</b>											
FS-1-15 (15 in.)	2.5 Y 3/2	10.32			8.94	22	Quaternary aluvium (Qal)				Cottonwoods, grass, and herbs
FS-2-22 (22 in.)	10 YR 3/2	11.29			8.78	pit	Quaternary aluvium (Qal)				
FS-3-30 (30 in.)	10 YR 2/2	13.84			7.58	pit	Quaternary aluvium (Qal)				
FS-4a-32 (pit, 32 in.)	2.5 Y 4/3	12.96			6.55	pit	Quaternary aluvium (Qal)				
FS-4b-32 (sand lens)	2.2 Y 5/4	11.05			6.80	pit	Quaternary aluvium (Qal)				
<b>Willow Creek, Soil transect perpendicular to creek just above mouth of Willow Creek Reservoir, MT</b>											
<b>South-facing slope</b>											
TWC-S80-C	2.5 Y 5/2	1.03	7.64	7.11	1.79	30	Pony Series, Precambrian	thin	?		sparse grass, cactus, sage
TWC-S60-A	no sample					40	Renova, Oligo-Miocene (Tbr)	25	30		grass, cactus, sage
TWC-S60-Bk	2.5 Y 6/3	6.83	8.29	8.12	7.35			7		thin caliche lens	
TWC-S60-B	2.5 Y 5/3	5.42	8.52	8.22	6.51						
TWC-S40-A	5 Y 7/7	8.29	8.82	7.80	7.48	50	Renova, Oligo-Miocene (Tbr)	>45	40	sandy, silt loam	grass, sage
TWC-S20-A	10 YR 4/2	7.92	7.72	6.96	8.43	10	Quaternary aluvium (Qal)	14	13		grass
TWC-S20-B	10 YR 5/3	9.41	8.01	7.26	4.75						
TWC-S 0-A	7.5 YR 5/2	15.90	9.13	8.10	7.76	0	Quaternary aluvium (Qal)	43	36	clay loam	grass
TWC-S 0-B	7.5 YR 5/2	14.63	8.51	7.92	4.27						
<b>Willow Creek, (below bridge)</b>											
TWC-N 0-A	2.5 YR 5/2	24.59	7.44	6.89	9.78	0	Quaternary aluvium (Qal)	22	34	sandy clay	grass, shrubs
TWC-N 0-B	2.5 YR 6/3	12.78	7.43	6.62	4.73						
TWC-N20-A	10 YR 5/2	13.70	7.99	7.34	7.63	40	Quaternary aluvium (Qal)	56	68	sandy clay	grass, shrubs
TWC-N20-B	10 YR 5/3	11.17	7.87	7.13	6.92					clay loam	
TWC-N40-A	2.5 Y 5/2	10.22	8.34	7.68	6.39	2	Renova, Oligo-Miocene (Tbr)	>61	?	sandy loam	grass, shrubs, sage
TWC-N60-A	2.5 Y 7/2	11.88	8.33	7.82	9.47	0	Renova, Oligo-Miocene (Tbr)	41	40	sandy loam	grass, sage
TWC-N60-B	2.5 Y 8/3	14.44	8.65	7.90	13.43					loamy sand	
TWC-N80-A	2.5 Y 5/3	10.13	8.37	7.53	8.43	3	Renova, Oligo-Miocene (Tbr)	43	?		grass, sage
TWC-N80-B	2.5 Y 6/3	9.74	8.81	7.64	7.94						

North-facing slope

