

Cow Canyon

The soils within the Cow Canyon Grazing Allotment vary considerably in physical characteristics, and somewhat in chemical and biological properties. The main soil series described in the soil survey are: Old Camp, Genegraf, Trocken, Bluewing, Duco, Itca, Clanalpine, Buckaroo, Uripnes, Findout, and Kram; in addition, there are also areas of sand dunes present on the west side of the allotment. Surface textures range from extremely stony loam to very gravelly sandy loam and gravelly fine sandy loam, to fine and medium sand in the dune areas. Soil depths range from very shallow and shallow to very deep on the alluvial fans, hills and mountains. Soil reactions (pH) are generally moderately to strongly alkaline on the alluvial fans, and neutral to strongly alkaline in the higher terrain. Parent material (mixed volcanic), surface and subsurface textures, and rock, elevation, aspect, and slope determine inherent productivity. Erosion and runoff potential, while affected by these factors are also dependent upon the basal and canopy cover on site. Also roads, livestock, mining, other overland activities, and generalized vehicle use have impacted soils in certain areas. The soils in this allotment are mainly aridisols, but there are some entisols in drainageways, and mollisols in the higher elevations. Average annual precipitation ranges from 5 to 7 inches on the valley floor and foothills to 10 to 14 inches in the higher elevations. Detailed descriptions of the soils within the allotment can be found within the Churchill County Soil Survey, issued by the U.S. Dept. of Agriculture-Natural Resources Conservation Service.

UPLAND STANDARD AND GUIDELINES: SOILS

The soil resources evaluated for the Upland Standards and Guidelines assessments were: rills, waterflow patterns, pedestaling and/or terracette presence, bare ground, gullies, wind-scoured blowouts and/or deposition areas, litter movement, soil surface resistance to erosion, and soil surface loss or degradation. Four sites were evaluated and overall, all were within the accepted parameters of the Reference sheets for the ecological sites. There were no deviations from the reference sheets in sites CC3 and CC01. Site CC1 was found to have deviations as follows: a few large areas of bare ground were “connected”, and there were wind-scour areas with evidence of soil loss due to a lack of vegetative cover, so these were slight to moderate deviations. Site CC4 had some evidence of sheet flow and some small terracettes so these were slight deviations. There is some evidence that an extended drought has affected seed production somewhat, and this may be affecting plant mortality, but there is vegetative recruitment on most sites. Overall there should be more perennial bunchgrasses present, but litter amounts were normal.

The soil resources of the sites assessed in the Cow Canyon grazing allotment meet the indicators outlined in the Sierra Front-Northwestern Standards and Guidelines document.

Clan Alpine

The soils within the Clan Alpine Grazing Allotment vary greatly in physical, chemical, and biological characteristics. There are dozens of multi-taxa map units within the allotment, and so the individual soil series will not be listed here. Detailed descriptions of the map units can be found in the Churchill County Soil Survey published by the Natural Resources Conservation Service. Soil classification in hills and mountainous terrain varies from lithic Cryoborolls, very shallow Torriorthents and shallow Argixerolls, to moderately deep and very deep Argixerolls

and Cryoborolls. Precipitation is 7 to 15 inches depending on elevation, and soil reaction (pH) varies from neutral to moderately alkaline. Soil classification on alluvial fans ranges from moderately deep Natrargids to very deep Torriorthents, Haplargids, Camborthids, and Natrargids. Precipitation varies from 6-9 inches, and soil reaction is mostly moderately to strongly alkaline. Classifications of valley bottom soils are mostly very deep Halaquepts, Camborthids, and Endoaquolls, with precipitation mainly in the 5 to 7 inch range. Soil reaction varies from neutral to strongly alkaline. Parent material, which varies considerably in this very large allotment, elevation, aspect, and slope determine inherent productivity. Erosion and runoff potential, while affected by these factors are also dependent upon the amount of vegetative basal and canopy cover present. Also roads, livestock, mining, other overland activities, and vehicle use have impacted the soils in certain areas.

UPLAND STANDARD AND GUIDELINES: SOILS

The soil resources evaluated for the Upland Standards and Guidelines assessments were: rills, waterflow patterns, pedestaling and/or terracette presence, bare ground, gullies, wind-scoured blowouts and/or deposition areas, litter movement, soil surface resistance to erosion, and soil surface loss or degradation. Four sites were evaluated and overall, all were within the accepted parameters of the Reference sheets for the ecological sites. There were no deviations from the reference sheets in sites CC3 and CC01. Site CC1 was found to have deviations as follows: a few large areas of bare ground were “connected”, and there were wind-scour areas with evidence of soil loss due to a lack of vegetative cover, so these were slight to moderate deviations. Site CC4 had some evidence of sheet flow and some small terracettes so these were slight deviations. There is some evidence that an extended drought has affected seed production somewhat, and this may be affecting plant mortality, but there is vegetative recruitment on most sites. Overall there should be more perennial bunchgrasses present, but litter amounts were normal.

The soil resources of the sites assessed in the Cow Canyon grazing allotment meet the indicators outlined in the Sierra Front-Northwestern Standards and Guidelines document.

Dixie Valley

The soils within the Dixie Valley Grazing Allotment vary considerably in physical, chemical, and biological characteristics. There are dozens of multi-taxa soil map units within the allotment, and so the individual soil series will not be listed. Detailed descriptions of the map units can be found in the Churchill County Soil Survey published by the Natural Resources Conservation Service. Soil classification in mountainous terrain varies from very shallow Torriorthents to shallow Haplargids and lithic and shallow Argixerolls. Precipitation is 7 to 14 inches or more per year, and soil reaction (pH) varies from 7.2 (neutral) to 9.2 (very strongly alkaline). Depth varies from lithic to shallow, mostly. Foothill soil classification mostly varies from very shallow to very deep Torriorthents to lithic and very shallow Haplargids. Precipitation is 6 to 10 inches per year, and soil reaction can be neutral, or moderately, strongly, or very strongly alkaline. Soil depths range from lithic to very deep. Soil classification on alluvial fans can be very deep Entisols, Torriorthents, Haplargids, and Natrargids, to moderately deep Durargids. Precipitation is 5 to 6 inches per year, and soil reaction varies from neutral to strongly alkaline. Soil depths range from moderately deep to very deep, mostly. Soil classification of valley bottom soils varies, but can be very deep Camborthids, Torriorthents, Natrargids, Fluvents, and

Psamments, and soil depth is generally very deep. Slopes throughout the allotment range from 0 to 2 percent on valley bottoms to up to 75 percent in the mountains. Parent material, which varies considerably in this very large allotment, surface and sub-surface textures, including coarse fragment percentages, elevation, aspect, and slope determine inherent productivity. Erosion and runoff potential, while affected by these factors are also dependent upon the amount of basal and canopy cover of the vegetation on site. Also roads, livestock, mining, other overland activities and vehicle use have impacted soils in certain areas.

UPLAND STANDARD AND GUIDELINES: SOILS

The soil resources evaluated for the Upland Standard and Guideline assessments were: rills, waterflow patterns, pedestaling and/or terracette presence, bare ground, gullies, wind-scoured blowouts and/or deposition areas, litter movement, soil surface resistance to erosion, and soil surface loss or degradation. Nine sites were evaluated and overall they were within the accepted parameters of the Reference Sheets for the ecological sites. There were no deviations from the Reference Sheets in sites DV-4, DV-5, DV-6, DV-01, DV-03, Camp Creek, and Badger Flat. All parameters were rated none to slight. At site DV-1 the water flow pattern assessment was rated with a slight to moderate deviation, and the pedestal and terracette item was rated with a moderate deviation. Site DV-2 was found to have a slight to moderate deviation in bare ground, having 70-80% bare ground. In all areas assessed the watershed was functioning properly, infiltration was normal, and there was no evidence of accelerated erosion: excessive sheet flow, rilling, or gullying.

The soil resources of the sites assessed in the Dixie Valley grazing allotment meet the indicators outlined in the Sierra Front-Northwestern Standards and Guidelines document.

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
102		Budihol-Minneha-Rock outcrop association	residuum and colluvium derived from granitic rocks	40	2133
141	Sandy 5-8 P.Z.	Hawsley-Isolde association	mixed alluvium and water re-worked eolian sand	5	147
153	Gravelly loam 4-8 P.Z.	Buckaroo-Rednik-Bluewing association	mixed alluvium	10	9978
154	Gravelly loam 4-8 P.Z.	Buckaroo-Rednik-Genegraf association	mixed alluvium	6	2521
155	Gravelly loam 4-8 P.Z.	Buckaroo-Genegraf-Pineval association	mixed alluvium	5	17681

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
160	Barren gravelly slope 4-8 P.Z.	Singatse-Rock outcrop association	residuum and colluvium derived from volcanic rocks	53	1230
162	Barren gravelly slope 4-8 P.Z.	Singatse-Theon-Rezave association	residuum and colluvium derived from volcanic rocks	40	1951
171	Sodic dunes	Isolde-Parran-Appian association	eolian deposits	10	1920
180	Coarse gravelly loam 4-8 P.Z.	Bluewing-Inmo association	alluvium	5	6048
181	Valley wash	Bluewing very gravelly loamy sand, 2 to 8 percent slopes	alluvium	5	289
184	Valley wash	Bluewing-Pineval association	alluvium	6	2894
190	Stony slope 4-8 P.Z.	Theon-Old Camp association	residuum and colluvium derived from volcanic rocks	53	4439
191	Stony slope 4-8 P.Z.	Theon-Singatse-Rock outcrop association	residuum and colluvium derived from volcanic rocks	33	12546
193	Stony slope 4-8 P.Z.	Theon-Mirkwood-Rock outcrop association	residuum and colluvium derived from volcanic rocks	40	19916
194	Stony slope 4-8 P.Z.	Theon-Hooplite-Singatse association	residuum and colluvium derived from volcanic rocks	33	18
220	Gravelly loam 4-8 P.Z.	Bango-Stumble association	mixed alluvium over lacustrine deposits	3	353
222	Gravelly loam 4-8 P.Z.	Bango-Playas-Chuckles association	mixed alluvium over lacustrine deposits	3	3973

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
230	Eroded granitic slope	Uripnes-Budihol-Rock outcrop association	residuum and colluvium derived from granitic rocks	40	490
231	South slope 4-8 P.Z.	Uripnes-Budihol-Chill association	residuum and colluvium derived from granitic rocks	40	6567
232	South slope 4-8 P.Z.	Uripnes-Rock outcrop association	residuum and colluvium derived from granitic rocks	33	217
262	Gravelly loam 4-8 P.Z.	Appian-Juva-Bango association	mixed alluvium over lacustrine deposits	1	1306
270	Loamy slope 8-10 P.Z.	Fubble-Nicanor association	residuum derived from metamorphic rocks	29	410
283	Coarse gravelly loam 4-8 P.Z.	Trocken-Bluewing association	mixed alluvium	6	12732
300	Loamy slope 8-10 P.Z.	Old Camp-Colbar-Rock outcrop association, steep	residuum and colluvium derived from volcanic rocks	40	35071
302	Loamy slope 8-10 P.Z.	Old Camp-Singatse-Rock outcrop association	residuum and colluvium derived from volcanic rocks	40	21727
304	Loamy slope 8-10 P.Z.	Old Camp-Bombadil-Loomer association	residuum derived from volcanic rocks	40	258
305	Loamy slope 8-10 P.Z.	Old Camp-Colbar-Rock outcrop association	residuum and colluvium derived from volcanic rocks	10	1163
307	Loamy slope 8-10 P.Z.	Old Camp-Theon-Rock outcrop association	residuum and colluvium derived from volcanic rocks	63	3155

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
308	Loamy slope 8-10 P.Z.	Old Camp-Clan Alpine-Colbar association	residuum and colluvium derived from volcanic rocks	40	11473
310	Coarse gravelly loam 4-8 P.Z.	Rednik-Trocken-Bluewing association	mixed alluvium	6	10827
311	Gravelly loam 4-8 P.Z.	Rednik-Trocken-Genegraf association	mixed alluvium	5	12918
313	Loamy 4-8 P.Z.	Rednik-Ricert-Trocken association	mixed alluvium	12	1275
320	Shallow calcareous loam 10-12 P.Z.	Jung-Old Camp-Rock outcrop association	mixed alluvium	23	8731
321	Shallow calcareous loam 10-12 P.Z.	Jung-Desatoya-Roca association	mixed alluvium	23	985
322	Shallow calcareous loam 10-12 P.Z.	Jung-Puett-Buffaran association	mixed alluvium	23	3
324	Shallow calcareous loam 10-12 P.Z.	Jung-Clan Alpine-Colbar association	residuum and colluvium derived from volcanic rocks	40	7427
325	Shallow calcareous loam 10-12 P.Z.	Jung-Old Camp-Clan Alpine association	residuum and colluvium derived from volcanic rocks	40	6946
330	Saline meadow	Settlement-Louderback-Rustigate association	mixed alluvium	1	5641
331	Saline bottom	Settlement-Chuckles-Rustigate association	mixed alluvium	1	14194
340	Deep sodic fan	Slaw-Juva-Wholan association	mixed alluvium	1	9086
341	Deep sodic fan	Slaw-Chuckles association	mixed alluvium	1	5704
343	Deep sodic fan	Slaw-Trocken-Chuckles	mixed alluvium	2	5273

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
		association			
350	Loamy 4-8 P.Z.	Ricert-Pineval association	mixed alluvium	3	5019
351	Loamy 4-8 P.Z.	Ricert-Chilper-Pineval association	mixed alluvium	6	974
352	Loamy 4-8 P.Z.	Ricert-Desatoya-Pineval association	mixed alluvium	6	2750
353	Gravelly loam 4-8 P.Z.	Ricert-Trocken-Pineval association	mixed alluvium	6	10751
358	Loamy 4-8 P.Z.	Ricert-Desatoya-Trocken association	mixed alluvium	6	4909
359	Gravelly loam 4-8 P.Z.	Ricert-Celeton-Trocken association	mixed alluvium	6	2561
360	Loamy 4-8 P.Z.	Ricert-Trocken-Rebel association	mixed alluvium	6	2581
370	Pinus monophylla-Juniperus osteosperma/Artemisia tridentata ssp. wyomingensis/Achnatherum thurberianum	Duco-Clanalpine-Jung association	residuum and colluvium derived from volcanic rocks	23	2830
371	Pinus monophylla-Juniperus osteosperma/Artemisia tridentata ssp. wyomingensis/Achnatherum thurberianum	Duco-Clanalpine-Old Camp association	residuum and colluvium derived from volcanic rocks	23	22350
373	Pinus monophylla-Juniperus osteosperma/Artemisia tridentata ssp. wyomingensis/Achnatherum thurberianum	Duco-Itca-Puett association	residuum and colluvium derived from volcanic rocks	33	3524

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
380	Pinus monophylla/Cercocarpus ledifolius-Artemisia tridentata ssp. vaseyana/Pseudoserotina spicata ssp. spicata-Poa	Itca-Clan Alpine-Rock outcrop association	residuum and colluvium derived from volcanic rocks	63	2692
381	Pinus monophylla-Juniperus osteosperma/Artemisia tridentata ssp. vaseyana/Pseudoserotina spicata ssp. spicata	Itca-Reluctant-Walt association	residuum and colluvium derived from volcanic rocks	40	1300
390	Coarse silty 4-8 P.Z.	Defler-Pineval association	mixed alluvium	3	5033
391	Coarse silty 4-8 P.Z.	Defler-Trocken association	mixed alluvium	3	2800
400	Sodic terrace	Chuckles-Playas complex	mixed alluvium	1	1943
401	Sodic terrace	Chuckles-Bango association	mixed alluvium	1	7124
402	Sodic terrace	Chuckles-Playas-Slaw association	mixed alluvium	1	4410
404	Sodic terrace	Chuckles-Settlement-Rebel association	mixed alluvium	1	5871
410	Droughty loam 8-10 P.Z.	Buffaran-Desatoya association	mixed alluvium	6	330
411	Droughty loam 8-10 P.Z.	Buffaran-Rebel-Puett association	mixed alluvium	6	1859
420	Loamy 4-8 P.Z.	Trocken-Hessing-Dun Glen association	mixed alluvium	5	8171
422	Loamy 4-8 P.Z.	Trocken-Hessing-Pineval association	mixed alluvium	3	8882
423	Coarse gravelly loam 4-8 P.Z.	Trocken-Bluewing association	mixed alluvium	3	7208
425	Loamy 4-8 P.Z.	Trocken-Hessing-Defler association	mixed alluvium	3	5008

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
430		Kram-Attella-Rock outcrop association	residuum derived from limestone	33	13312
432	Pinus monophylla-Juniperus osteosperma /Artemisia nova/Achnatherum thurberianum-Pseudoroegneria spicata ssp. spicata	Kram-Findout-Rock outcrop association	residuum derived from limestone	40	7348
433	Pinus monophylla-Juniperus osteosperma/Artemisia nova/Achnatherum thurberianum-Pseudoroegneria spicata ssp. spicata	Kram-Hopeka-Rock outcrop association	residuum and colluvium derived from limestone	40	2540
440	Pinus monophylla/Cercocarpus ledifolius-Artemisia tridentata ssp. vaseyana/Festuca idahoensis-Pseudoroegneria spicata ssp. spicata	Ravenswood-Itca-Walti association	residuum and colluvium derived from volcanic rocks	33	3532
440	Pinus monophylla/Cercocarpus ledifolius-Artemisia tridentata ssp. vaseyana/Festuca idahoensis-Pseudoroegneria spicata ssp. spicata	Ravenswood-Itca-Walti association	residuum and colluvium derived from volcanic rocks	33	8773
450	Silty 8-10 P.Z.	Wholan-Defler association	mixed alluvium	1	3839
460	Gravelly loam 4-8 P.Z.	Juva-Wholan-Stumble association	mixed alluvium	2	2513
470	Loamy 4-8 P.Z.	Hessing-Wholan-Dun Glen association	mixed alluvium	3	7747

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
480	Droughty loam 8-10 P.Z.	Yody-Bufferan-Pineval association	mixed alluvium	6	16073
481	Droughty loam 8-10 P.Z.	Yody-Ricert-Pineval association	mixed alluvium	6	6581
491	Droughty loam 8-10 P.Z.	Pineval-Rebel-Wholan association	mixed alluvium	6	775
492	Droughty loam 8-10 P.Z.	Pineval-Rebel association	mixed alluvium	10	6612
500	Saline meadow	Louderback-Rustigate-Isolde association	mixed alluvium	1	7665
520	Droughty loam 8-10 P.Z.	Pineval-Bluewing-Inmo association	mixed alluvium	6	1872
532	Gravelly loam 4-8 P.Z.	Cleaver-Ricert-Barnmot association	mixed alluvium	3	509
535	Gravelly loam 4-8 P.Z.	Cleaver-Bundorf association	mixed alluvium	5	659
560	Shallow calcareous loam 8-10 P.Z.	Izod-Rock outcrop association	residuum and colluvium derived from limestone	33	139
580	Wet meadow 8-12 P.Z.	Welch loam, 2 to 8 percent slopes	mixed alluvium	5	172
590	Droughty loam 8-10 P.Z.	Rebel-Pineval-Yody association	mixed alluvium	6	4610
591	Droughty loam 8-10 P.Z.	Rebel loam, 0 to 2 percent slopes	mixed alluvium	1	2781
592	Droughty loam 8-10 P.Z.	Rebel-Wholan-Pineval association	mixed alluvium	1	3187
610	Barren gravelly slope 4-8 P.Z.	Barnmot-Bluewing-Badland association	mixed colluvium over lacustrine deposits	40	2125
621	South slope 4-8 P.Z.	Findout-Izod-Rock outcrop association	residuum and colluvium derived from limestone	33	6777
643	SODIC FLAT	Mazuma-Bluewing association	mixed alluvium	1	1872

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
662	Gravelly claypan 8-10 P.Z.	Loomer-Bombadil-Old Camp association	residuum derived from volcanic rocks	33	107
680	South slope 8-10 P.Z.	Bombadil-Old Camp association	residuum derived from volcanic rocks	33	1090
700	Pinus monophylla/Artemisia tridentata ssp. vaseyana/Festuca idahoensis-Poa	Clanalpine-Itca-Old Camp association	residuum and colluvium derived from volcanic rocks	63	1594
710	Sandy 3-5 P.Z.	Luning-Izo association	mixed alluvium	3	37
730	Shallow calcareous loam 10-12 P.Z.	Hooplite-Theon-Old Camp association	residuum and colluvium derived from volcanic rocks	33	6744
731	Shallow calcareous loam 10-12 P.Z.	Hooplite-Old Camp-Singatse association	residuum and colluvium derived from volcanic rocks	33	4973
733	Shallow calcareous loam 10-12 P.Z.	Hooplite-Old Camp-Jung association	residuum and colluvium derived from volcanic rocks	33	370
734	Shallow calcareous loam 10-12 P.Z.	Hooplite-Theon-Puett association	residuum and colluvium derived from volcanic rocks	33	798
735	Loamy slope 8-10 P.Z.	Hooplite-Old Camp-Duco association	residuum and colluvium derived from volcanic rocks	40	929
740	Mountain ridge	Packer-Layview-Hapgood association	residuum and colluvium derived from volcanic rocks	33	9957

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
760	Loamy slope 12-14 P.Z.	Burnborough-Cleavage-Welch association	colluvium and residuum derived from volcanic rocks	23	3262
772	Loamy 4-8 P.Z.	Chilper-Trocken-Jerval association	mixed alluvium	5	2949
790	Pinus monophylla-Juniperus osteosperma/Artemisia tridentata ssp. wyomingensis/Achnatherum thurberianum	Jacratz-Nayfan association	residuum and colluvium derived from sedimentary rocks	53	1233
800	Gravelly loam 4-8 P.Z.	Bedwyr-Celeton association	residuum and colluvium derived from sedimentary rocks	10	179
802	Loamy 4-8 P.Z.	Bedwyr-Bedzee-Jobpeak association	residuum and colluvium derived from sedimentary rocks	23	251
811	Juniperus osteosperma-Pinus monophylla/Artemisia tridentata ssp. wyomingensis/Achnatherum thurberianum	Ravenswood-Itca-Walti association	colluvium derived from volcanic and metamorphic rock and/or colluvium derived from metavolcanics and/or residuum weathered from volcanic and metamorphic rock and/or residuum weathered from metavolcanics	33	7
840	Cobbly claypan 12-14 P.Z.	Belate-Roca-Cleavage association	residuum and colluvium derived from volcanic rocks	53	1274

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
860		Teguro-Colbar-Cleavage association	residuum and colluvium derived from volcanic rocks	40	475
860		Teguro-Colbar-Cleavage association	residuum and colluvium derived from volcanic rocks	40	14
870	Loamy slope 8-10 P.Z.	Chill-Cleavage association	residuum derived from granitic rocks	40	656
880	Gravelly claypan 8-10 P.Z.	Coppereid-Singatse-Findout association	residuum derived from shale	53	2673
900		Playas		1	2680
910	Cobbly slope 5-8 P.Z.	Theriot-Findout-Rock outcrop association	residuum and colluvium derived from limestone	40	4139
930	Mountain ridge	Layview-Packer-Hapgood association	residuum and colluvium derived from volcanic rocks	23	6610
970	<i>Pinus monophylla</i> - <i>Juniperus osteosperma</i> / <i>Artemisia tridentata</i> ssp. <i>vaseyana</i> / <i>Achnatherum thurberianum</i>	Jobpeak-Teguro-Rock outcrop association	residuum and colluvium derived from volcanic rocks	63	2729
1010	Loamy slope 5-8 P.Z.	Downeyville-Stewval-Blacktop association	residuum and colluvium derived from volcanic rocks	33	149
1011	Loamy slope 5-8 P.Z.	Downeyville-Blacktop association	residuum and colluvium derived from volcanic rocks	19	7119
1013	Cobbly slope 5-8 P.Z.	Downeyville-Gabbvally association	residuum and colluvium derived from volcanic rocks	40	837

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
1020	Loamy 5-8 P.Z.	Unsel-Annaw-Izo association	mixed alluvium	5	1938
1023	Loamy 5-8 P.Z.	Unsel-Pineval association	mixed alluvium	3	3263
1024	Loamy 5-8 P.Z.	Unsel-Desatoya-Roic association	mixed alluvium	10	1261
1025	Loamy 5-8 P.Z.	Unsel-Desatoya-Pineval association	mixed alluvium	5	416
1026	Loamy 5-8 P.Z.	Unsel-Pineval-Defler association	mixed alluvium	5	1604
1030	Loamy slope 5-8 P.Z.	Goldyke-Blacktop-Koyen association	residuum and colluvium derived from volcanic rocks	19	737
1033	Loamy slope 5-8 P.Z.	Goldyke-Blacktop-Koyen association	residuum and colluvium derived from volcanic rocks	19	1600
1040	Dunes 4-8 P.Z.	Isolde-Hawsley association	eolian deposits	10	201
1130	Eroded granitic slope	Uripnes-Rock outcrop association	residuum and colluvium derived from granitic rocks	33	36
1142	Gravelly loam 5-8 P.Z.	Unsel-Annaw-Izo association	mixed alluvium	5	349
1145	Gravelly loam 5-8 P.Z.	Unsel-Annaw association	mixed alluvium	17	67
1231	Gravelly loam 4-8 P.Z.	Genegraf-Trocken-Bluewing association	mixed alluvium	5	13271
1232	Gravelly loam 4-8 P.Z.	Genegraf-Rednik-Trocken association	mixed alluvium	5	4620
1233	Gravelly loam 4-8 P.Z.	Genegraf-Buckaroo-Bluewing association	mixed alluvium	5	16779
1240	Loamy slope 3-5 P.Z.	Blacktop-Downeyville-Rock outcrop association	residuum derived from volcanic rocks	53	1343

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
1641	Loamy 5-8 P.Z.	Unsel-Annaw association	mixed alluvium	17	1971
1643	Loamy 5-8 P.Z.	Unsel-Annaw-Izo association	mixed alluvium	5	3659
1680	Eroded granitic slope	Uripnes-Rock outcrop association	residuum and colluvium derived from granitic rocks	53	136
1833	Loamy slope 5-8 P.Z.	Downeyville-Stewval-Blacktop association	residuum and colluvium derived from volcanic rocks	33	293
1834	Loamy slope 5-8 P.Z.	Downeyville-Blacktop association	residuum and colluvium derived from volcanic rocks	19	237
1877	Sandy 3-5 P.Z.	Luning-Izo association	mixed alluvium	5	132
1891	Loamy slope 3-5 P.Z.	Blacktop-Downeyville-Rock outcrop association	residuum derived from volcanic rocks	53	198
2111	Sandy 3-5 P.Z.	Luning-Izo association	mixed alluvium	5	10
2791	Loamy 8-10 P.Z.	Old Camp-Colbar-Rock outcrop association	volcanic ash and/or residuum weathered from andesite and/or residuum weathered from basalt	10	1
3093	Mountain ridge	Packer-Layview-Hapgood association	volcanic ash and/or loess and/or residuum weathered from shale and/or residuum weathered from chert and/or residuum weathered from quartzite and/or residuum weathered from volcanic rock	33	4

Map Unit Symbol	Ecological Site Name	Map Unit Name	Parent Material	% Slope	Acres
4170	Loamy slope 5-8 P.Z.	Downeyville-Blacktop association	residuum and colluvium derived from volcanic rocks	19	3322
4176	Cobbly slope 5-8 P.Z.	Downeyville, moist-Downeyville-Gabbvally association	residuum and colluvium derived from volcanic rocks	40	1878
4178	Loamy slope 5-8 P.Z.	Downeyville-Stewval-Blacktop association	residuum and colluvium derived from volcanic rocks	33	3785