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TABLES for the Soil-Vegetation Map Northeast Quarter of the WEAVERVILLE QUADRANGLE (24C-1)

Shasta and Trinity Counties, California

Chester O. Stone, et al
United States Forest Service
Pacific Southwest Forest and Range Experiment Station

1975

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TABLES

for the Soil-Vegetation Map

Northeast Quarter of the WEAVERVILLE QUADRANGLE (24C-1) Shasta and Trinity Counties, California

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Published in cooperation
with the State of California:
The Resources Agency,
Department of Conservation,
Division of Forestry
University of California,
Division of
Agricultural Sciences

1975

FOREWORD

The Soil-Vegetation maps were prepared by the California State Cooperative Soil-Vegetation Survey, a research unit of the Pacific Southwest Forest and Range Experiment Station, headquartered at Berkeley, California.

For information about the symbols used in the maps and an explanation of the tables that accompany the maps, consult USDA Forest Service Resource Bulletin PSW-13, *Soil-Vegetation Maps of California.* For a copy, write to:

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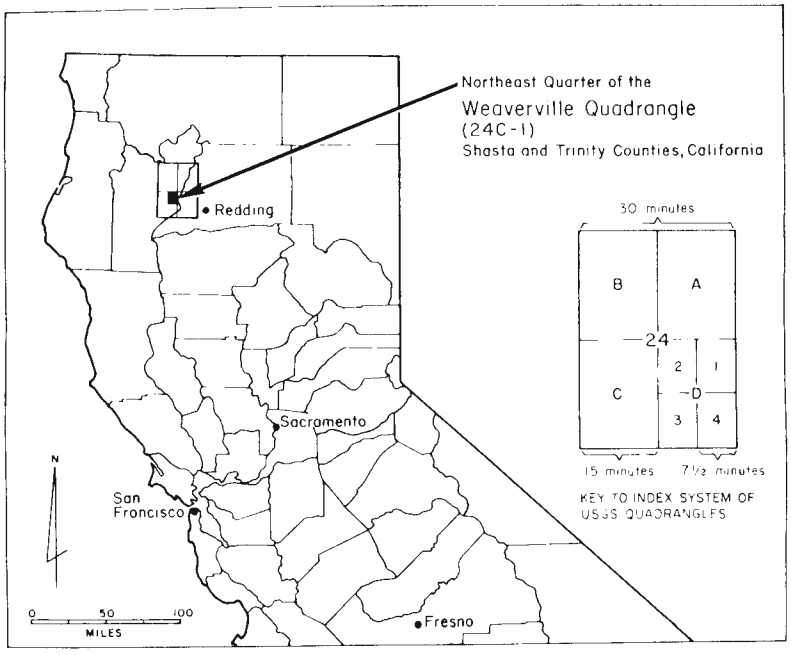

Table 1 --Soil symbols and some general characteristics of soil series mapped

Soil series symbol	Soil series name	Depth range (inches)	Color of surface/subsoil	Texture of surface/subsoil	Reaction of surface/subsoil	Parent material	Relief and slope classes mapped 1/
112	Barron 1/68	60 or more	Grayish brown and very pale brown/very pale brown	Coarse sandy loam/coarse sandy loam	Moderately acid/ moderately acid	Granitic alluvium	Nearly level to rolling (1)
200	2/						
200W	2/						
400	2/						
700	2/						
7118	Boomer 3/71	40-80	Light brown/ red	Sandy clay loam/ gravelly clay loam	Moderately acid/ moderately acid	Greenstone	Nearly level to very steep (1,2)
7118i	Boomer (intrusive) 3/71	40-80	Light brown/ red	Sandy clay loam/ gravelly clay loam	Moderately acid/ moderately acid	Gabbro or diorite	Nearly level to very steep (1,2)
7118L	Boomer (landslide) 3/ 3/71	40-80	Light brown/ red	Sandy clay loam/ gravelly clay loam	Moderately acid/ moderately acid	Basic igneous landslide debris	Nearly level to very steep (1,2,3)
7118n	Boomer (gneiss) 3/71	40-80	Light brown/ red	Sandy clay loam/ gravelly clay loam	Moderately acid/ moderately acid	Gneiss	Nearly level to very steep (1,2)
7121M	Corbett (taxadjunct) 4/	20-40	Light brownish gray/white	Loamy coarse sand/loamy coarse sand	Slightly and moderately acid/ slightly acid	Decomposed granitic rock	Very steep (3,4)
7125V2	Tish Tang variant 2 5/	20-40	Pale brown/ very pale brown	Gravelly loam/ loam	Moderately acid/ strongly acid	Diorite porphyry	Steep to very steep (2,3)
7129	Chawanakee 4/73	12-20	Grayish brown/ very pale brown	Coarse sandy loam/coarse sandy loam	Moderately acid/ moderately acid	Decomposed granitic rock	Rolling to hilly and steep (2,3,4)
7132	Stump Springs 2/57	40-80	Grayish brown/ light yellowish brown	Sandy loam/heavy sandy clay loam	Slightly acid/ moderately acid	Decomposed granitic rock	Gently sloping to steep (2)
7132n	Stump Springs (gneiss) 2/57	40-80	Grayish brown/ light yellowish brown	Sandy loam/heavy sandy clay loam	Slightly acid/ moderately acid	Gneiss	Gently sloping to steep (2)
7132V	Stump Springs variant 6/	40-80	Brown and pale brown/light yellowish brown	Coarse sandy loam/sandy clay loam	Moderately acid/ strongly acid	Decomposed granitic rock	Gently sloping to steep (1,2,3)
7153	Englebright 6/69	20-40	Dark brown or reddish brown/ yellowish red	Loam/cobbly clay loam	Slightly or moderately acid/ moderately acid	Gabbro or diorite	Gently sloping to steep (3)
7153k	Englebright (greenstone) 6/69	20-40	Dark brown or reddish brown/ yellowish red	Loam/cobbly clay loam	Slightly or moderately acid/ moderately acid	Greenstone	Gently sloping to steep (3)
7153n	Englebright (gneiss) 6/69	20-40	Dark brown or reddish brown/ yellowish red	Loam/cobbly clay loam	Slightly or moderately acid/ moderately acid	Gneiss	Gently sloping to steep (3)
7154	Hotaw 3/71	20-40	Grayish brown/ light brown	Coarse sandy loam/sandy clay loam	Slightly acid/ strongly acid	Decomposed granitic rock	Moderately sloping to steep (1,2,3)
7154n	Hotaw (gneiss) 3/71	20-40	Grayish brown/ light brown	Sandy loam/ sandy clay loam	Slightly acid/ strongly acid	Gneiss	Moderately sloping to steep (3)
7158	Chaix 3/71	20-40	Grayish brown and brown/light yellowish brown	Coarse sandy loam/coarse sandy loam	Moderately acid/ strongly acid	Decomposed granitic rock	Rolling to steep (2,3)

Table 1 (continued)

Soil series symbol	Soil series name	Depth range (inches)	Color of surface/subsoil	Texture of surface/subsoil	Reaction of surface/subsoil	Parent material	Relief and slope classes mapped[1/]
716	Holland 3/71	50-100	Dark grayish brown and light brown/reddish brown and light brown	Loam/clay loam and sandy clay loam	Moderately and slightly acid/ moderately acid	Decomposed granitic rock	Moderately sloping to very steep (1)
7167	Hoda 3/71	40-80	Brown/yellowish red	Sandy loam/clay	Moderately acid/ strongly and very strongly acid	Decomposed granitic rock	Gently sloping to very steep (2,3)
7167V	Hoda variant[7/]	40-50+	Pale brown/ strong brown	Silt loam/silty clay	Moderately acid/ moderately acid	Decomposed granitic rock	Gently sloping to very steep (2,3)
719	Siskiyou 11/72	20-40	Very dark grayish brown/yellowish brown	Gravelly sandy loam/coarse sandy loam and loamy coarse sand	Moderately acid/ moderately acid	Decomposed granitic rock	Moderately steep to very steep (2,3)
726	Dubakella 3/71	14-28	Reddish brown/ yellowish brown	Stony loam and stony light clay loam/very gravelly clay	Neutral/neutral	Serpentine	Sloping to steep
726L	Dubakella (landslide)[3/] 3/71	14-28	Reddish brown/ yellowish brown	Stony loam and stony light clay loam/very gravelly clay	Neutral/neutral	Serpentinaceous landslide breccia	Sloping to steep (2)
728	Neuns 2/66	20-40	Dark brown/ yellowish brown	Gravelly sandy loam/gravelly sandy clay loam	Moderately acid/ strongly acid	Greenstone	Hilly to very steep (2,3)
728i	Neuns (intrusive) 2/66	20-40	Dark brown/ yellowish brown	Gravelly sandy loam/gravelly sandy clay loam	Moderately acid/ strongly acid	Gabbro or diorite	Hilly to very steep (1,2,3)
728iL	Neuns (intrusive, landslide)[3/] 2/66	20-40	Dark brown/ yellowish brown	Gravelly sandy loam/gravelly sandy clay loam	Moderately acid/ strongly acid	Landslide of gabbroic or dioritic material	Hilly to very steep (1,2,3)
728L	Neuns (landslide)[3/] 2/66	20-40	Dark brown/ yellowish brown	Gravelly sandy loam/gravelly sandy clay loam	Moderately acid/ strongly acid	Landslide of greenstone materials	Hilly to very steep (1,2,3)
728m	Neuns (schist) 2/66	20-40	Dark brown/ yellowish brown	Gravelly sandy loam/gravelly sandy clay loam	Moderately acid/ strongly acid	Schist	Hilly to very steep (3)
728n	Neuns (gneiss) 2/66	20-40	Dark brown/ yellowish brown	Gravelly sandy loam/gravelly sandy clay loam	Moderately acid/ strongly acid	Gneiss	Hilly to very steep (2,3,4)
7325V	Miramar variant[8/]	10-30+	Brown to dark brown/brown	Silty clay loam/ heavy clay loam	Slightly acid/ neutral	Gneiss	Very steep (3)
771	Henneke 8/72	12-20	Brown/brown	Gravelly loam/ very gravelly clay loam	Slightly acid/ neutral	Serpentine	Rolling to steep (2)
771L	Henneke (landslide)[3/] 8/72	12-60+	Brown/brown	Gravelly loam/ very gravelly clay loam	Slightly acid/ neutral	Serpentinaceous landslide breccia	Steep and undulating (1,2,3)
781	Goulding 7/66	8-25	Brown/brown	Gravelly loam/ very gravelly loam	Slightly acid/ slightly acid	Greenstone	Steep to very steep (2,3,4)
781i	Goulding (intrusive) 7/66	8-25	Brown/brown	Gravelly loam/ very gravelly loam	Slightly acid/ slightly acid	Gabbro or diorite	Steep to very steep (1,2,3)
781n	Goulding (gneiss) 7/66	8-25	Brown/brown	Gravelly loam/ very gravelly loam	Slightly acid/ slightly acid	Gneiss	Steep to very steep (3,4)

Table 1 (continued)

Soil series symbol	Soil series name	Depth range (inches)	Color of surface/subsoil	Texture of surface/subsoil	Reaction of surface/subsoil	Parent material	Relief and slope classes mapped[1/]
811	Marpa 1/68	20-40	Brown/light brown	Very gravelly heavy loam/ very gravelly clay loam	Slightly acid/ strongly acid	Shale and sandstone	Steep to very steep (2,3)
811m	Marpa (schist) 1/68	20-40	Brown/light brown	Very gravelly heavy loam/ very gravelly clay loam	Slightly acid/ strongly acid	Schist	Steep to very steep (2,3)
812	Hugo 2/66	30-60+	Pale brown/ pale brown	Gravelly sandy clay loam/ gravelly clay loam	Moderately acid/ strongly acid	Hard sedimentary rock	Steep to extremely steep (2,3)
812n	Hugo (gneiss) 2/66	30-60+	Pale brown/ pale brown	Gravelly sandy clay loam/ gravelly clay loam	Moderately acid/ strongly acid	Gneiss	Steep to extremely steep (2,3)
8121	Madonna 3/72	20-40	Pale brown/ brown	Loam/loam	Moderately acid/ moderately acid	Sandstone and shale	Rolling to very steep (2,3,4)
8121m	Madonna (schist) 3/72	20-40	Pale brown/ brown	Loam/loam	Moderately acid/ moderately acid	Schist	Rolling to very steep (2,3,4)
815	Josephine taxadjunct[9/] 9/63	40-60	Brown to reddish brown/strong brown to yellowish red	Loam/clay loam	Moderately acid/ moderately to strongly acid	Sandstone and shale	Hilly to very steep (1,2,3)
815L	Josephine taxadjunct (landslide)[9/] 9/63	40-60	Brown to reddish brown/strong brown to yellowish red	Loam/clay loam	Moderately acid/ moderately to strongly acid	Sedimentary rock landslide breccia	Hilly to very steep (1,3)
815m	Josephine taxadjunct (schist)[9/] 9/63	40-60	Brown to reddish brown/strong brown to yellowish red	Loam/clay loam	Moderately acid/ moderately to strongly acid	Schist	Moderately steep to very steep (1,2,3,4)
815n	Josephine taxadjunct (gneiss) 9/63	40-60	Brown to reddish brown/strong brown to yellowish red	Loam/clay loam	Moderately acid/ moderately to strongly acid	Gneiss	Hilly to very steep (2,3)
815V2	Josephine variant 2 [10/]	40-80	Grayish brown and brown/brown	Loam and silt loam/clay	Slightly acid/ moderately acid	Shale	Steep
819m	Tatu (schist)	20-40	Dark brown/ brown	Gravelly coarse sandy loam/very gravelly coarse sandy loam	Slightly acid/ moderately acid	Schist	Steep to very steep (3,4)
820	Sheetiron 3/72	20-40	Dark grayish brown and pale brown/pale brown	Gravelly loam/ very gravelly heavy loam	Moderately and strongly acid/ strongly acid	Micaceous schist	Hilly to very steep (2,3,4)
820S	Sheetiron taxadjunct [11/] 3/72	20-40	Dark grayish brown and pale brown/pale brown	Gravelly loam/ very gravelly heavy loam	Moderately and strongly acid/ strongly acid	Sandstone shale and schist	Hilly to very steep (2,3)
847	Laughlin 10/73	20-40	Brown/brown	Loam/loam	Moderately acid/ strongly acid	Sandstone and shale	Strongly sloping to very steep (4)
871	Los Gatos 2/71	24-40	Brown/brown and yellowish red	Light clay loam/ gravelly clay loam	Slightly acid/ moderately acid	Sandstone and shale	Steep to very steep (2)
871m	Los Gatos (schist) 12/48	12-36	Brown/reddish brown	Clay loam/clay loam	Slightly acid/ slightly acid	Schist	Gently sloping to very steep (3)

Table 1 (continued)

Soil series symbol	Soil series name	Depth range (inches)	Color of surface/subsoil	Texture of surface/subsoil	Reaction of surface/subsoil	Parent material	Relief and slope classes mapped 1/
872	Maymen 3/71	10-20	Brown/light yellowish brown	Gravelly sandy loam/gravelly loam	Moderately acid/ strongly acid	Sandstone and shale	Rolling to very steep (2,3)
872m	Maymen (schist) 3/71	10-20	Brown/light yellowish brown	Gravelly sandy loam/gravelly loam	Moderately acid/ strongly acid	Schist	Hilly to very steep (3)
874	Etsel 12/71	4-14	Light yellowish brown/	Gravelly loam/	Slightly and moderately acid/	Sandstone shale and schist	Steep to very steep (2,3,4)
9115	Weaverville	60+	Reddish brown and yellowish red/red and yellowish red	Loam/clay and sandy clay	Slightly acid/ strongly acid	Weakly consolidated conglomerate	Gently sloping to very steep (1,2,3)
929	Musser	20-50	Brown/dark reddish brown and red	Gravelly loam/ heavy clay loam or clay	Slightly acid/ moderately acid	Weakly consolidated conglomerate	Gently sloping to very steep (1,2,3)
936	Kilarc 3/67	25-44	Grayish brown/ light brownish gray and pale brown	Loam and clay loam/clay	Slightly acid/ extremely acid	Weakly cemented sandstone	Gently sloping to steep (2)

1/ Slope class symbol — Percent slope

Slope class symbol	Percent slope
1	0-30
2	30-50
3	50-70
4	70 and greater

2/ Unclassified soils and miscellaneous land types mapped are:

Symbol	
200	Alluvial land (secondary soils on bottomlands)
400	Small areas of soils on terraces and benches
700(AK)	Colluvial land of acid igneous rock materials
700(BK)	Colluvial land of basic igneous rock materials
700(BK)R	Colluvial land of basic igneous rock materials with 10-50 percent rock outcrop or surface rock
700(BO)	Rock outcrop (90-100 percent rockiness) of basic igneous rock material
700(CK)	Colluvial land of sedimentary rock material
700(CK)O	Colluvial land of sedimentary rock material with 10-50 percent rock outcrop
700(CO)	Rock outcrop (90-100 percent rockiness) of sedimentary rock material
700(DH)	Tailings (hydraulic or dredger) of mixed or undetermined rock materials
700(DK)	Colluvial land of mixed or undetermined rock materials
700(DK)R	Colluvial land of mixed or undetermined rock materials with 10-50 percent rock outcrop or surface rock
700(DS)	Landslide of mixed or undetermined rock materials
700(DP)	Placer diggings, mine dumps or pits of mixed or undetermined rock materials
700(DW)	Riverwash, beaches, and dune lands of mixed or undetermined rock materials
700(MK)	Colluvial land of schistose rock materials
700(UK)R	Colluvial land of ultrabasic rock materials with 10-50 percent rock outcrop or surface rock
700(UT)	Talus (rubble land) of ultrabasic rock materials

3/ The soil is formed on material that has undergone mass movement.

4/ Corbett taxadjunct soils differ from the Corbett series primarily in having mean annual soil temperatures between 47°F. and 59°F. rather than less than 47°F.

5/ Tish Tang variant 2 soils differ from the Tish Tang series primarily in having between 20 and 40 inches of soil over hard rock rather than more than 60 inches.

6/ Stump Springs variant soils differ from the Stump Springs series primarily in being less leached therefore having a base saturation in the subsoil greater than 75 percent rather than between 35 and 75 percent.

7/ Hoda variant soils differ from the Hoda series primarily in having strong brown silty clay subsoils rather than yellowish red clay subsoils.

8/ Miramar variant soils differ from the Miramar series primarily in having silty clay loam and heavy clay loam textures in the surface and subsoil respectively rather than coarse sandy loam and coarse sandy clay loam.

9/ Josephine taxadjunct soils differ from the Josephine series primarily in having a base saturation in the subsoil between 35 and 75 percent rather than less than 35 percent.

10/ Josephine variant 2 soils are present (see plot 4) but not extensive enough to map. They differ from the Josephine series primarily in having clay textured subsoils rather than clay loam.

11/ Sheetiron taxadjunct soils differ from the Sheetiron series primarily in having less than 40 percent by weight of mica in the soil rather than more than 40 percent.

Table 2 --Soil symbols and phases with selected behavior characteristics and productivity estimates

Map symbol	Soil series name	Soil phase symbols 1/	Permeability 2/	General drainage 3/	Erosion hazard 4/	Hydrologic soil group 5/	Estimated suitabilities for Timber production 6/	Estimated suitabilities for Extensive range use 7/
112	Barron	5	Rapid	Somewhat excessive	High 10/	B	Medium to high	Low to medium
200	8/		Rapid	Well 9/	Slight 10/	B	Unsuited	Medium
200W	8/		Rapid	Imperfect 9/	Moderate 10/	B/D	Unsuited	High
400	8/		Slow to moderate	Well	Slight 10/	B-D	Unsuited to high	Medium
700	8/		Rapid to impermeable	Excessive to well	Slight to very high	A-D	Unsuited to medium	Unsuited to low
7118	Boomer	4,4S	Moderately slow	Well	Moderate	B	Medium	Low to medium
7118i	Boomer (intrusive)	4S	Moderately slow	Well	Moderate	B	Medium	Low to medium
7118L	Boomer (landslide)	4S,5S	Moderately slow	Imperfect	High 12/	C	Medium	Low
7118n	Boomer (gneiss)	4S,5	Moderately slow	Well	Moderate	B	Medium	Low to medium
7121M	Corbett taxadjunct	2,2E	Rapid	Excessive	Very high 11/	B	Low to medium	Unsuited 11/
7125V2	Tish Tang variant 2	2,2S,3	Moderate	Well	Moderate	B	Low to medium	Very low
7125V2	Tish Tang variant 2	2E	Moderate	Well	High 11/	C	Low	Unsuited 11/
7129	Chawanakee	2	Moderately rapid	Somewhat excessive	High	C	Medium	Very low
7129	Chawanakee	2E	Moderately rapid	Somewhat excessive	Very high 11/	C	Low to medium	Unsuited 11/
7132	Stump Springs	4	Slow	Well	High to very high	B	Medium	Low
7132n	Stump Springs (gneiss)	5	Slow	Well	High to very high	B	Medium	Medium
7132V	Stump Springs variant	3,4	Slow	Well	High to very high	B	Medium	Medium to low
7153	Englebright	3S	Moderately slow	Well	High 11/	C	Medium	Low 11/
7153k	Englebright (greenstone)	3S	Moderately slow	Well	High 11/	C	Medium	Low 11/
7153n	Englebright (gneiss)	3	Moderately slow	Well	High 11/	C	Medium	Low 11/
7154	Hotaw	3,3S	Moderately slow	Well	High	C	Medium	Low
7154n	Hotaw (gneiss)	3	Moderately slow	Well	High 11/	C	Medium	Low 11/

Table 2 (continued)

Map symbol	Soil series name	Soil phase symbols [1]	Permeability [2]	General drainage [3]	Erosion hazard [4]	Hydrologic soil group [5]	Estimated suitabilities for: Timber production [6]	Extensive range use [7]
7158	Chaix	3,4	Moderately rapid	Well or somewhat excessive	High	B	Medium to high	Low
716	Holland	5	Moderately slow	Well	Moderate [10]	B	Medium to high	Medium
7167	Hoda	4,5	Slow	Well	High	D	Medium	Low to medium
7167V	Hoda variant	3,4	Moderate	Moderate	High	D	Medium	Low
719	Siskiyou	3	Moderately rapid	Somewhat excessive	High	B	Medium	Low
726	Dubakella	2R,2S	Slow	Well	Moderate	C	Low	Low to very low
726L	Dubakella (landslide)	2S,3S	Slow	Well	Moderate [12]	C	Medium	Low to very low
728	Neuns	2S	Moderate	Somewhat excessive	Moderate	B	Medium to low	Low
728	Neuns	3,3S	Moderate	Somewhat excessive	Moderate	B	Medium	Low
728i	Neuns (intrusive)	2S	Moderate	Somewhat excessive	Moderate	B	Medium to low	Low
728i	Neuns (intrusive)	3S	Moderate	Somewhat excessive	Moderate	B	Medium to high	Low
728L	Neuns (landslide)	2S	Moderate	Well	High [12]	C	Low	Low [11]
728L	Neuns (landslide)	3S	Moderate	Well	High [12]	C	Medium	Low
728m	Neuns (schist)	2S	Moderate	Somewhat excessive	Moderate [11]	B	Medium	Low [11]
728m	Neuns (schist)	3S	Moderate	Somewhat excessive	Moderate to high [11]	B	Medium to high	Low [11]
728n	Neuns (gneiss)	2S,3,3S	Moderate	Somewhat excessive	Moderate	B	Medium	Low
7325V	Miramar variant	3	Moderate	Moderate	High [11]	C	Unsuited	Low [11]
771	Henneke	2R	Moderately slow	Well to excessive	Moderate	D	Unsuited	Very low
771L	Henneke (landslide)	2R,3,3Rl	Moderately slow	Well	Moderate to high [12]	D	Unsuited	Low
781	Goulding	1S	Moderate	Excessive	Moderate to high	D	Unsuited	Very low
781	Goulding	2S,3S	Moderately rapid to moderate	Well to somewhat excessive	Moderate to high	D	Unsuited	Low to medium
781	Goulding	2SE	Moderate	Well to somewhat excessive	Very high [11]	D	Unsuited	Unsuited [11]
781i	Goulding (intrusive)	1S,2S	Moderately rapid to moderate	Well to somewhat excessive	Moderate	D	Unsuited	Low
781n	Goulding (gneiss)	2S	Moderately rapid to moderate	Well to somewhat excessive	High [11]	D	Unsuited	Low [11]

Table 2 (continued)

Map symbol	Soil series name	Soil phase symbols[1]	Permeability[2]	General drainage[3]	Erosion hazard[4]	Hydrologic soil group[5]	Estimated suitabilities for Timber production[6]	Estimated suitabilities for Extensive range use[7]
811	Marpa	2S	Moderate	Well	Moderate	B	Low to medium	Low
811	Marpa	3S,4S	Moderate	Well	Moderate	B	Medium	Low to medium
811m	Marpa (schist)	3S,4S	Moderate	Well	Moderate	B	Medium	Low to medium
812	Hugo	4,4S,5S	Moderately rapid	Well	Moderate	B	High	Low
812n	Hugo (gneiss)	4,4S,5	Moderately rapid	Well	Moderate	B	High	Low
8121	Madonna	2S	Moderate	Well	High[11]	C	Medium to low	Low[11]
8121	Madonna	3,3S	Moderate	Well	Moderate	C	Medium to high	Medium to low
8121m	Madonna (schist)	2S,3S	Moderate	Well	Moderate	C	Medium	Low to medium
815	Josephine taxadjunct	4,4S	Moderately slow	Well	Moderate	B	Medium	Low to medium
815L	Josephine taxadjunct (landslide)	5,5S	Moderately slow	Well	High[12]	B	Medium	Low
815m	Josephine taxadjunct (schist)	4S,5	Moderately slow	Well	Moderate	B	Medium to high	Low to medium
815n	Josephine taxadjunct (gneiss)	4,5	Moderately slow	Well	Moderate	B	Medium	Low to medium
815V2	Josephine variant 2	4	Slow	Well	Moderate	C	Medium	Low to medium
819m	Tatu (schist)	3S	Moderate to rapid	Well	Moderate to high[11]	C	Low to medium	Low to medium[11]
820	Sheetiron	2S,3S	Moderate	Well	Moderate	B	Medium	Low to medium
820S	Sheetiron taxadjunct	2S	Moderate	Well	Moderate	B	Low to medium	Low to medium
820S	Sheetiron taxadjunct	3S	Moderate	Well	High[11]	B	Medium	Low[11]
847	Laughlin	2S	Moderate	Well	Moderate	B	Unsuited	Low
871	Los Gatos	3S	Moderate to moderately slow	Well	Moderate	B	Unsuited	Low
871m	Los Gatos (schist)	2S	Moderate to moderately slow	Well to excessive	High[11]	C	Unsuited	Very low[11]
872	Maymen	1S,2S	Moderate or moderately rapid	Well or somewhat excessive	High	D	Unsuited	Very low
872m	Maymen (schist)	2S	Moderate or moderately rapid	Well or somewhat excessive	High[11]	D	Unsuited	Very low[11]
874	Etsel	1S	Moderate	Somewhat excessive	High	D	Unsuited	Very low
874	Etsel	1SE	Moderate	Somewhat excessive	High	D	Unsuited	Unsuited
9115	Weaverville	4S,5,5S	Slow	Well	Moderate	B	Medium	Low to medium

Table 2 (continued)

Map symbol	Soil series name	Soil phase symbols[1]	Permeability[2]	General drainage[3]	Erosion hazard[4]	Hydrologic soil group[5]	Estimated suitabilities for Timber production[6]	Extensive range use[7]
9115	Weaverville	4E	Slow	Well	High	C	Medium	Unsuited
929	Musser	2E	Slow	Well	High	D	Low to unsuited	Unsuited
929	Musser	2S	Slow	Well	Moderate	D	Low to medium	Medium to low
929	Musser	3S,4S	Slow	Well	Moderate	D	Medium	Medium to low
936	Kilarc	4S	Slow	Moderately well	Moderate	D	Low	Medium

1/ Phase symbols listed here are:

Symbol	Depth class	Depth (feet)	Symbol	Surface rock (percent)	Symbol	Stoniness	Symbol	Erosion
1	Very shallow	<1	R	10-50	S	Coarse fragments in the soil (gravel, cobbles, or stones) making up 20 percent or more of the soil's volume	E	Severe
2	Shallow	1-2	Rl	2-10				
3	Moderately shallow	2-3						
4	Moderately deep	3-4						
5	Deep	>4						

2/ Permeability: rate of water movement through the soil profile. Relative terms used, based on the least permeable layer within or directly beneath the soil after prolonged wetting (at saturated conditions) are: slow, moderately slow, moderate, moderately rapid, rapid.

3/ General drainage: rate and extent of removal of water from the soil, both by runoff and by percolation. Relative terms used are: excessive, somewhat excessive, well, moderately well, somewhat poor, poor.

4/ Erosion hazard: probable susceptibility of a soil to surface erosion on a 30 to 50 percent slope (slope class 2) when all vegetation cover including litter is removed. Relative terms used are: slight, moderate, high, very high.

5/ Hydrologic group: classification of soils into four groups, A through D, are based on estimate of intake of water and runoff potential after the profile is thoroughly wetted and has had opportunity to swell. The soil surface is assumed to be undisturbed and without vegetation or litter. The grouping is tentative and subject to change as additional data are gathered. The four groups from lowest to highest runoff potential are:

Group A--Low runoff potential. Soils are deep (greater than 36 inches {90cm}) and have a high infiltration rate and a high rate of water transmission through the profile. They are well or excessively drained and consist chiefly of sand and gravel, or both.

Group B--Soils of moderately low runoff potential. Soils are moderately deep to deep (20 to 60 inches {50-150cm}) and have a moderate rate of infiltration and water transmission through the soil profile. They are well to moderately well-drained, and are medium to moderately coarse-textured.

Group C--Moderately high runoff potential. Soils are shallow to moderately deep (10 to 36 inches {25-90cm}), or deep (greater than 36 inches) containing greater amounts of clay than groups A and B, or soils underlain by a slowly permeable layer at moderate depth (20 to 40 inches {50-100cm}) such as hard bedrock, hardpans, or a dense clay horizon. They have a slow infiltration and water transmission rate and are moderately fine or fine-textured.

Dual ratings are given in some cases. These are for soils with areas that have been drained or for soils that, because of variable depth or drainage class, may vary in hydrologic group. In the first case the rating is shown as X/Y, with the first rating for the drained phase of the series. The second case is indicated by a hyphen, as X-Y.

6/ Estimated suitability for commercial timber production: based on predominant site index determinations as related to soil and climatic characteristics regardless of current vegetative cover in an area. Relative terms for Dunning's site class symbols are: unsuited = nontimberland; low = sites 1, 2; medium = sites 3, 4; high = site 5; very high = site 6; extremely high = site 7; questionable = conclusive evidence of suitability is lacking. In areas where productivity is lower than normal for the site index class, the site class symbol is underlined (e.g. 4). Soils in these areas cannot support fully stocked stands because of natural limiting factors such as shallow soils, very stony soils, rock outcrops, unstable terrain, limited moisture, etc. Individual trees may grow at the indicated rate.

7/ Estimated suitability for extensive range use: based on observations of natural forage production, use experience over wide areas, and soil and climatic characteristics. Regardless of current vegetative cover, estimates are potential suitability applied to open areas, either natural or cleared, under extensive management (without seeding or fertilization) with average herbaceous cover conditions as related to soil type. Factors such as rockiness, topography, and erosion are also considered. Estimates should not be interpreted as necessarily applying to suitability of soils for forage production under more intensive management involving seeding, fertilization or irrigation. Relative terms are: unsuited, very low, low, medium, high, very high. Unless otherwise indicated, they are applicable to soils of slope classes 1 and 2 (0 to 50 percent).

8/ Unclassified soils and miscellaneous land types mapped are listed in footnote 2 to table 1.

9/ Occasionally subject to flooding.

10/ For soils with slopes less than 30 percent.

11/ For soils with slopes greater than 50 percent.

12/ May be unstable after prolonged rainfall or disturbance.

Table 3 --Plant species and miscellaneous elements mapped, including their growth habit, sprouting nature, and browse values

Map symbol	Common name	Scientific name	Growth habit	Sprout nature 1/	Browse value 2/				
					H	C	S	G	D
A	White alder	Alnus rhombifolia	Tree	S	5	4-5	3-4	3-4	3-5
Aa 4/	Western serviceberry	Amelanchier pallida	Shrub	S	3-4	2-3	2-3	2	2-3
Af	Chamise	Adenostoma fasciculatum	Shrub	S	5	4-5	2-3	2-3	2-3
Ap	Greenleaf manzanita	Arctostaphylos patula	Shrub	S	5	5	4-5	4-5	3-4
Av	Whiteleaf manzanita	Arctostaphylos viscida	Shrub	N	5	5	5	4-5	4-5
B	California black oak	Quercus kelloggii	Tree	S	4-5	2-4	3-4	3-4	1-2
Ba 3/	--	--	--	--	--	--	--	--	--
C	Canyon live oak	Quercus chrysolepis	Tree	S	5	5	5	5	3-4
Cb	Birchleaf mountain-mahogany	Cercocarpus betuloides	Shrub	S	2-4	2	1-2	1-2	1
Cc	Buckbrush, Wedgeleaf ceanothus	Ceanothus cuneatus	Shrub	N	5	4	2-3	2-3	3
Cca	Creek dogwood	Cornus californica	Shrub	S	5	5	3-4	3-4	3-4
Cec 4/	California redbud	Cercis occidentalis	Shrub	S	4-5	4-5	4	3-4	4-5
Ci	Deerbrush	Ceanothus integerrimus	Shrub	S,N	3	2-3	1-2	1-2	1-2
Cle	Lemmon ceanothus	Ceanothus lemmonii	Shrub	S	5	4-5	3-4	3-4	3-4
Cn	Pacific dogwood	Cornus nuttallii	Shrub, Tree	S	5	5	3-4	3-4	3-4
Cpo	Squaw carpet	Ceanothus prostratus	Shrub	N	5	5	4-5	3-4	2-4
Cr	California hazelnut	Corylus cornuta californica	Shrub	S	4-5	4-5	4	3-4	3-4

Table 3 (continued)

Map symbol	Common name	Scientific name	Growth habit	Sprout nature[1]	Browse value[2] H	C	S	G	D
Cu[3]	--	--	--	--	--	--	--	--	--
D	Douglas-fir	Pseudotsuga menziesii	Tree	N	5	5	4-5	4-5	4-5
Dp	Digger pine	Pinus sabiniana	Tree	N	5	5	5	5	5
Ec	California yerba santa	Eriodictyon californicum	Shrub	S	5	5	4-5	4-5	3-4
G	Oregon oak, Garry oak	Quercus garryana	Tree	S	5	4-5	4-5	4-5	2-3
Gf	Fremont silktassel	Garrya fremontii	Shrub	S	5	4-5	2-3	2-3	2-3
Gr[3]	--	--	--	--	--	--	--	--	--
I	Incense-cedar	Calocedrus decurrens	Tree	N	5	4-5	4-5	3-5	3-5
J	Jeffrey pine	Pinus jeffreyi	Tree	N	5	5	4-5	3-5	3-5
K	Knobcone pine	Pinus attenuata	Tree	N	5	5	5	5	5
Kxm[4]	Knobcone-monterey pine hybrid	Pinus attenuradiata	Tree	N	5	5	5	5	5
Lde	Shrub tan-oak	Lithocarpus densiflorus echinoides	Shrub	S	5	5	5	4-5	1-2
M	Madrone	Arbutus menziesii	Tree	S	5	4-5	4-5	4-5	3-5
M	Bigleaf maple	Acer macrophyllum	Tree	U	5	4-5	4	4	3-4
O	Oregon ash	Fraxinus latifolia	Tree	S	4-5	3-4	3	3	4-5
Pta	Bracken fern	Pteridium aquilinum pubescens	Herb	S	5	5	5	5	5
Qc	Shrub canyon live oak	Quercus chrysolepis nana	Shrub	S	5	5	5	4	4
Qgb	Brewer oak	Quercus garryana breweri	Shrub	S	5	4-5	4-5	4-5	3-4
Qk	Shrub california black oak	Quercus kelloggii cibata	Shrub	S	4-5	2-4	3-4	3-4	1-?
Qw[4]	Shrub interior live oak	Quercus wislizenii frutescens	Shrub	S	5	4	3-5	3-4	1-2
Rd[4]	Poison-oak	Rhus diversiloba	Shrub	S	2-3	3-4	3-4	3-4	2-3
Rix[4]	Gooseberry, Currant	Ribes species	Shrub	S,N	4-5	4	3-4	3	2-3
Rop[4]	Cluster rose	Rosa pisocarpa	Shrub	S	4	4-5	2-3	2-3	2-3
Rox[4]	Rose	Rosa species	Shrub	S	4-5	4-5	3	2-3	2-3
Rr[4]	Sierra gooseberry	Ribes roezlii	Shrub	S,N	4-5	4	3	3	3-5
Rt	Squaw bush	Rhus trilobata	Shrub	S	4	4-5	4	4	3-4
Rur[4]	California blackberry	Rubus ursinus	Vine	S	5	5	4	3-4	3-4
Rx[4]	Blackberry, Raspberry	Rubus species	Vine	S	5	5	4	3-4	3-4
S	Sugar pine	Pinus lambertiana	Tree	N	5	5	4-5	4-5	4-5
Sal[4]	Upright snowberry	Symphoricarpos rivularis	Shrub	U	4	3-4	3	2-3	3
Scu[4]	Spreading snowberry	Symphoricarpos acutus	Shrubby vine	U	4	3-4	2-3	2-3	3-4
Sx	Willow	Salix species	Shrub, Tree	S	5	4-5	3-4	3-4	?-3
Sxg[4]	Parish nightshade	Solanum parishii	Herb-Shrub	S	4-5	4-5	3-4	2-3	1-3

Table 3 (continued)

Map symbol	Common name	Scientific name	Growth habit	Sprout nature 1/	Browse value 2/ H	C	S	G	D
U	Pacific yew	Taxus brevifolia	Tree	U	5	5	5	5	5
Uc	Shrub california laurel, Bay	Umbellularia californica	Shrub	S	5	3-4	3-4	3-4	2-3
Ui 3/	--	--	--	--	--	--	--	--	--
V	Valley oak	Quercus lobata	Tree	S	5	4	4-5	4-5	3-4
Vc	California wild grape	Vitis californica	Vine	S	4-5	4-5	3-4	3-4	3-4
W	White fir	Abies concolor	Tree	N	5	4-5	4-5	3-4	3-4
Xs	Nuttall willow	Salix scouleriana	Shrub, Tree	S	4	3	2-3	2-3	3
Y	Ponderosa pine	Pinus ponderosa	Tree	N	5	5	4-5	4-5	4-5

1/ Sprout nature:

S = Sprouts after fire.
N = Normally will not sprout if top is fire killed.
S,N = Sprouts after fire in some cases and is completely killed in others.
U = Post-fire sprouting capacity unknown.

Note: Some species, though killed by fire, will stump sprout after cutting in the absence of fire.

2/ Browse value over-all ratings, including sprouts after burning or cutting:

1 = Very high
2 = High
3 = Medium
4 = Low
5 = Very low

Kind of animal:

H = Horses; C = Cattle; S = Sheep; G = Goats; D = Deer.

3/ Miscellaneous vegetation and landscape elements mapped are:

Symbol:

Ba — Rock, bare, or litter-covered ground, essentially devoid of vegetation.
Cu — Cultivated or fallow field, natural hayland, or irrigated pasture.
Gr — Grasses and other associated herbaceous plants, includes dry meadow species.
Ui — Urban or industrial area, frequently with no mappable soil due to industrial activity.

4/ Species not mapped but recorded as browse on type-acre plots (see table 4).

Table 4.--Data on type-acre sampling plots[1/]

Plot No.	Location[2/] T	R	S	Aspect & percent slope	Soil symbol[3/]	Cover class[4/]	Date sampled	Soft chess[5/] Height (cm.)	Stage	Ground cover[6/] H	L	B	RG	I	W	Woody species with available browse[7/]
										---percent---						
1	33N	8W	9	W-55	8121 3-3	2	22 Jun 65	20	D	5	20	40	-	15	20	Av,Qw,Cle,Cb,B,G, Ap,Cec,D,Y,Cc
2	33N	8W	16	SW-58	8121 3S-3	3	22 Jun 65	33	D	20	21	57	2	0	(8/)	G,Rt,Ci,Y,Av,Cc, Rix,Qw,Cb,D
3	33N	8W	31	W-64	7325V 3-3	2	22 Jun 65	-	-	5	15	25	-	25	30	Cb,Ap,Cle,Rd,G,B, Dp,D,C,Cec,Cc
4	33N	8W	22	NW-38	815V2 4-2	2	30 Jul 64	-	-	40	15	30	-	5	10	D,Ci,B,Rd,Y,M, S,Rox,C,Scu,Qw
5	33N	9W	34	W-28	929 5S-1	5	24 Jun 65	30	D	30	3	54	13	-	(8/)	Cc,Kxm,Rv,Ap,Y,B, Rr,Av,G,Cle,Sxg
6	32N	8W	5	SE-40	7132V 4-2	3	15 Jun 72	-	-	20	52	28	-	-	(8/)	Ci,Cle,D,B,G,Y, Av,Ap,Cb,S,C
7	32N	8W	3	E-69	7121m 2E2-3	3	15 Jun 72	-	-	5	10	70	-	(8/)	15	C,S,B,Y,D,Ap, Cle,Ci
8	32N	8W	3	SE-50	719 3-3	3	15 Jun 72	-	-	(8/)	90	10	-	-	(8/)	C,D,Y,S,B,Rop, Ci,Ap
9	33N	9W	1	NE-60	8121 4S-3	1	11 May 72	-	-	(8/)	75	5	(8/)	(8/)	20	D,B,G,Rd,M,Cr, Sal,C,Y,S,Ci,Rix
10	33N	9W	3	W-25	7167 5-1	1	23 Jun 65	-	-	(8/)	75	10	-	10	5	I,B,D,S,Aa, Av, Rox,C,Scu, W,Cn,Rd
11	33N	9W	3	NW-30	7167V 3-2	1	23 Jun 65	-	-	(8/)	75	15	(8/)	5	5	D,I,Av,Aa,Y,Rox, B,Cle,G,S

1/ More detailed information is on file at Dept. of Agronomy and Range Science, U.C., Davis, and at the Pacific Southwest Forest and Range Experiment Station, U.S.F.S., Berkeley.

2/ Plots shown on the map by circled numbers in the township (T), range (R), and section (S) indicated.

3/ Soil series and phases. See tables 1 and 2 for key.

4/ Area covered by crowns of all woody plants:

Symbol	Cover class	Ground covered (percent)
1	Dense	>80
2	Semidense	50-80
3	Open	20-50
4	Very open	5-20
5	Extremely open	<5

5/ Mean maximum height (cm.) and stage of maturity of soft chess (Bromus mollis):
V = vegetative stage (plant not yet flowering)
F = flowering stage (plant has seed stalk and is still green)
D = dry stage (plant is dead)

6/ Ground space covered or occupied by these vegetation and landscape units below a reference plane 4.5 feet above the ground:
H = herbage--all herbaceous plant material of the current growing season
L = litter--dead plant material on the ground exclusive of heavy woody material
B = bare soil--particle s less than 2 mm.
RG = rock and gravel--surface coarse fragments greater than 2 mm and bedrock
I = inaccessible--space that grazing animals physically cannot occupy owing to presence of tree stems, logging debris, tall and dense brush, and other obstructions
W = woody vegetation available for browsing--small twigs and foliage of all woody plants regardless of palatability less than 4.5 feet tall and accessible to grazing animals

Note: Browse species are listed in last column of this table. Herbaceous and all woody species are listed in table 5.

7/ Listed in decreasing order of abundance. See Table 3 for key to species symbols and browse values.

8/ Unit is present but too scarce to measure (usually less than 5 percent).

Table 5.--Plant species recorded or observed for the quadrangle[1/]

Scientific name	Common name	Locations where plants found[2/]
ANNUAL GRASSES:		
Aira caryophyllea	Silver hairgrass	1,2,3,5,6,7,8,11
Avena barbata	Slender wild oats	2
Bromus carinatus	California brome	3,4
Bromus catharticus	Rescue grass	5
Bromus commutatus	Hairy chess	5
Bromus diandrus	Ripgut	2,3,4,5
Bromus mollis	Soft chess	1,2,3,5
Bromus tectorum	Cheatgrass, downy brome	1,2,3,5,6,7,8
Festuca eastwoodae	Eastwood fescue	2
Festuca grayi	Gray fescue	11
Festuca megalura	Foxtail fescue	2,3,5,6,7
Festuca microstachys	Pubescent reflex fescue	7
Festuca pacifica	Pacific fescue	3
Festuca reflexa	Reflex fescue	1,5,6,7,8,9,11
Gastridium ventricosum	Nitgrass	5
Taeniatherum asperum	Medusahead	5
PERENNIAL GRASSES AND GRASS-LIKE PLANTS:		
Agropyron parishii laeve	Parish wheatgrass	6,7,8
Bromus sp.	Perennial brome	7
Bromus laevipes	Woodland brome	3
Bromus orcuttianus	Orcutt brome	4
Bromus vulgaris		11
Carex multicaulis	Many-stem sedge	4,5,7,8,9
Elymus glaucus glaucus	Blue wild rye	3,4,6,9
Elymus glaucus jepsonii	Jepson wild rye	5
Festuca californica	California fescue	4,10,11
Festuca idahoensis	Idaho fescue	5,6,7,8,11
Festuca occidentalis	Western fescue	7,9,10,11
Holcus lanatus	Velvetgrass	5
Luzula subsessilis	Foothill wood rush	4,6,7,8,10,11
Melica harfordii	Harford melic	9,10,11
Melica sp.	Melic grass	5
Poa sp.	Perennial bluegrass	9
Poa pratensis	Kentucky bluegrass	5
Poa scabrella	Pine bluegrass	1,2,3,4,5,7,8
Sitanion hystrix californicum	Squirreltail	1,2,3,5,6,8
Stipa lemmonii	Lemmon stipa	2,3,5,6,8
Trisetum cernuum canescens	Tall trisetum	10,11
ANNUAL FORBS:		
Arenaria sp.	Sandwort	7
Athysanus pusillus	Athysanus	2
Centaurea melitensis	Napa star thistle	2
Centaurea solstitialis	Yellow star thistle	5
Cerastium glomeratum	Mouse-ear chickweed	5
Cirsium proteanum	Venus thistle	1
Cirsium vulgare	Bull thistle	5
Clarkia sp.	Farewell-to-spring	6
Clarkia purpurea quadrivulnera	Four-spot godetia	2,3,5
Clarkia rhomboidea	Forest clarkia	3,7,8,10
Collinsia sp.	Collinsia	3,7,9,11
Collinsia parviflora	Small-flowered collinsia	10
Collomia sp.	Collomia	1,4
Collomia grandiflora	Mountain collomia	5
Cryptantha sp.	Cryptantha	7
Daucus pusillus	Rattlesnake weed	1,2,3
Draba verna	Whitlow-grass	7
Epilobium minutum	Slender annual fireweed	2,5,6,7,11
Epilobium paniculatum	Annual fireweed	5
Eremocarpus setigerus	Turkey mullein	5

Table 5 (continued)

Scientific name	Common name	Locations where plants found[2/]
ANNUAL FORBS:		
Eriogonum vimineum	Wicker buckwheat	5
Galium aparine	Goosegrass	3,9,10
Galium parisiense	Wall bedstraw	2
Gilia sp.		1
Gilia capitata	Blue field gilia	3
Hesperolinon micranthum	Common dwarf flax	3
Lactuca serriola	Prickly lettuce	5
Lessingia sp.	Lessingia	6
Linanthus ciliatus	Whisker linanthus	7,8
Lotus humistratus	Hill lotus	1,3
Lotus micranthus	Small-flower lotus	8
Lotus purshianus	Spanish clover	3,5
Lupinus bicolor marginatus	Bicolor annual lupine	1,2
Madia sp.	Tarweed	7,8
Madia citrigracilis	Shasta tarweed	5
Madia exigua	Little tarweed	1,3,5,6,7
Madia gracilis	Gumweed madia	2,3,4
Micropus californicus	Micropus	1,3,5
Mimulus sp.	Monkey flower	7,8
Montia perfoliata	Miners lettuce	4,7,8,9,10,11
Moss and Moss-like plants		7,9,11
Navarretia intertexta	Needle-leaf navarretia	5
Nemophila sp.		10
Nemophila pedunculata	Meadow nemophila	9
Orthocarpus sp.	Orthocarpus	2
Pectocarya pusilla	Pectocarya	6
Plagiobothrys sp.	Popcorn flower	2,5,6,7
Plectritis sp.	Plectritis	5
Scleranthus annuus	Scleranthus	5
Thysanocarpus curvipes elegans	Lace pod	7
Torilis arvensis	Field hedge parsley	3
Trichostema lanceolatum	Vinegar weed	5
Trifolium ciliolatum	Tree clover	2
Trifolium microcephalum	Maiden clover	2,5
Verbascum thapsus	Common mullein	5
PERENNIAL FORBS:		
Achillea lanulosa	Mountain yarrow	3,4,5,6,7,8
Adenocaulon bicolor	Trail plant	4,10
Agoseris grandiflora	Grand mountain dandelion	5
Agoseris retrorsa	Spear-leaf mountain dandelion	1,3,6,8
Allium sp.	Onion	10
Plantago lanceolata	Rib-grass	5
Polygala cornuta	Sierra milkwort	9,10,11
Polystichum munitum	Sword fern	10,11
Potentilla sp.	Cinquefoil	4
Pteridium aquilinum pubescens	Bracken fern	M,4,6,7,8
Pyrola picta picta	White-vein shinleaf	9
Pyrola picta aphylla	Leafless pyrola	9
Rumex acetosella	Sheet-sorrel	5,8
Sanicula bipinnatifida	Purple sanicle	1,2,3,4,5,6,8,11
Senecio aronicoides	California groundsel	7
Silene lemmonii	Lemmon campion	7
Taraxacum officinale	Common dandelion	9
Verbena robusta		2,5
Vicia americana oregana	American vetch	9
Vicia californica	California vetch	2,8,9
Viola purpurea	Mountain violet	6,7,8
Wyethia angustifolia	Narrow-leaf mule ears	6
Zigadenus fremontii	Star-lily	10,11

Table 5 (continued)

Scientific name	Common name	Locations where plants found[2/]
TREES AND SHRUBS:		
Abies concolor	White fir	M,10
Acer macrophyllum	Bigleaf maple	M,9
Adenostoma fasciculatum fasciculatum	Chamise	M
Alnus rhombifolia	White alder	M
Amelanchier pallida	Western serviceberry	10,11
Arbutus menziesii	Madrone	M,4,10,11
Arctostaphylos patula patula	Greenleaf manzanita	M,1,3,5,6,7,8
Arctostaphylos viscida	Whiteleaf manzanita	M,1,2,5,6,10,11
Calocedrus decurrens	Incense-cedar	M,10,11
Ceanothus cuneatus	Buckbrush, wedgeleaf cean.	M,1,2,3,5
Ceanothus integerrimus	Deerbrush	M,2,3,4,6,7,8,9
Ceanothus lemmonii	Lemmon ceanothus	M,1,3,5,6,7,11
Ceanothus prostratus prostratus	Squaw carpet	M
Cercis occidentalis	California redbud	1,3
Cercocarpus betuloides	Birchleaf mountain-mahogany	M,1,2,3,6
Cornus californica	Creek dogwood	M
Cornus nuttallii	Pacific dogwood	M,10
Corylus cornuta californica	California hazelnut	M,9
Eriodictyon californicum	California yerba santa	M
Fraxinus latifolia	Oregon ash	M
Garrya fremontii	Fremont silktassel	M
Lithocarpus densiflorus echinoides	Shrub tan-oak	M
Phoradendron flavescens villosum	Mistletoe	1,4
Pinus attenuata	Knobcone pine	M
Pinus attenuradiata	Knobcone-montery pine hybrid	5
Pinus jeffreyi	Jeffrey pine	M
Pinus lambertiana	Sugar pine	M,4,6,7,8,9,10,11
Pinus ponderosa	Ponderosa pine	M,1,2,4,5,6,7,8,9,10,11
Pinus sabiniana	Digger pine	M,1,3
Pseudotsuga menziesii	Douglas-fir	M,1,2,3,4,5,6,7,8,9,10,11
PERENNIAL FORBS:		
Antennaria sp.	Pussytoes	6
Apocynum pumilum pumilum	Mountain hemp	4
Apocynum pumilum rhomboideum	Pubescent mountain hemp	6
Asarum hartwegii	Hartweg wild ginger	9
Asclepias cordifolia	Purple milkweed	7
Aster sp.		6
Balsamorhiza deltoidea	Deltoid balsamroot	9
Calochortus sp.	Mariposa lily	4,10,11
Calochortus tolmiei	Tolmie star-tulip	6,9
Comandra umbellata californica	Bastard toad-flax	10
Cynoglossum grande	Western houndstongue	3,7
Cystopteris fragilis	Bladder fern	11
Dentaria tenella tenella	Toothwort	4,9
Dichelostemma congestum	Ookow	6
Dichelostemma parviflorum	Many-flower dichelostemma	11
Dichelostema pulchellum	Wild-hyacinth	1,3,9
Dodecatheon sp.	Shooting stars	6,7,9
Erigeron sp.	Wild daisy	10
Eriogonum nudum		7,8
Eriogonum nudum oblongifolium		2,5
Eriophyllum lanatum	Common wooly-sunflower	7,8
Eriophyllum lanatum grandiflorum	Common wooly-sunflower	1,3
Frasera albicaulis nitida	Shining frasera	6
Galium ambiguum		1,5,11
Galium bolanderi	Bolander galium	3,6,7,8,10

Table 5 (continued)

Scientific name	Common name	Locations where plants found[2/]
PERENNIAL FORBS:		
Galium nuttallii tenue	Climbing galium	1,7
Gnaphalium sp.	Everlasting	4,7,9
Goodyera oblongifolia	Rattlesnake plantain	10
Habenaria unalascensis	Rein orchid	10
Helianthella californica nevadensis	Sierra helianthella	6,9
Hieracium albiflorum	White-flower hawkweed	4,6,7,8,9,10,11
Horkelia iridentata	Three-tooth horkelia	6
Hypericum perforatum	Klamath weed	4,5,9
Iris tenuissima	Iris	2,4,5,6,7,8,9,10,11
Lathyrus sulphureus	Sulfur pea	4,9
Lithophragma sp.	Woodland star	9
Lithospermum sp.		6
Lomatium sp.	Lomatium, hog-fennel	1,5
Lotus sp.		6
Lotus crassifolius	Big deervetch	7,8
Lupinus andersonii	Anderson lupine	7
Lupinus latifolius	Big-leaf lupine	6,8
Lupinus sellulus		6,7,8
Monardella sp.	Monardella	6,9
Monardella villosa sheltonii	Coyote-mint	1,3
Osmorhiza chilensis	Mountain sweet-cicely	4,9,10
Pedicularis semibarbata	Pine lousewort	4
Phacelia sp.	Phacelia	7
Phacelia imbricata		2
Phlox speciosa occidentalis		4,6
TREES AND SHRUBS:		
Quercus chrysolepis chrysolepis	Canyon live oak	M,3,4,6,7,8,9,10
Quercus chrysolepis nana	Shrub canyon live oak	M
Quercus garryana garryana	Oregon oak, garry oak	M,1,2,3,5,6,7,9,11
Quercus garryana breweri	Brewer oak	M
Quercus kelloggii kelloggii	California black oak	M,1,2,3,4,5,6,7,8,0,10,11
Quercus kelloggii cibata	Shrub Calif. black oak	M
Quercus lobata	Valley oak	M
Quercus wislizenii frutescens	Shrub interior live oak	1,2,4
Rhus diversiloba	Poison-oak	3,4,9,10
Rhus trilobata	Squaw bush	M,2
Ribes sp.	Gooseberry	2,9
Ribes roezlii	Sierra gooseberry	5
Rosa sp.	Rose	4,10,11
Rosa pisocarpa	Cluster rose	8
Rubus ursinus	California blackberry	5
Salix sp.	Willow	M
Salix scouleriana	Nuttall willow	M
Solanum parishii	Parish nightshade	5
Symphoricarpos acutus	Spreading snowberry	4,10
Symphoricarpos rivularis	Upright snowberry	9
Taxus brevifolia	Pacific yew	M
Umbellularia californica	Shrub Calif. laurel, Bay	M
Vitis californica	California wild grape	M

1/ More data on percent composition and abundance of plants are on file at the Dept. of Agronomy and Range Science, U.C., Davis, or at the Pacific Southwest Forest and Range Experiment Station, U.S.F.S., Berkeley.

2/ M = Species was mapped in the quadrangle;
Number = Species recorded on a type-acre sampling plot of that number within the quadrangle (see footnote 2, Table 4).

Table 6 --Taxonomic classification of soils in the quadrangle

Order	Subgroup	Family	Series
Alfisols	Mollic Haploxeralfs	Clayey-skeletal, serpentinitic, mesic	Dubakella
		Fine-loamy, mixed, mesic	Stump Springs variant
	Typic Haploxeralfs	Fine, montmorillonitic, mesic	Kilarc
	Ultic Haploxeralfs	Fine, kaolinitic, mesic	Hoda Hoda variant
		Fine, mixed, mesic	Josephine variant 2
		Fine-loamy, mixed, mesic	Boomer Englebright Holland Hotaw Josephine taxadjunct Stump Springs
		Loamy-skeletal, mixed, mesic	Marpa
	Ultic Palexeralfs	Fine, kaolinitic, mesic	Weaverville
Entisols	Lithic Xerothents	Loamy-skeletal, mixed, nonacid, mesic	Etsel
	Typic Xeropsamments	Mixed, mesic	Corbett taxadjunct
Inceptisols	Dystric Xerochrepts	Coarse-loamy, mixed, mesic	Chaix
		Fine-loamy, mixed, mesic	Hugo Madonna Tish Tang variant 2
		Loamy, mixed, mesic, shallow	Chawanakee
		Loamy-skeletal, mixed, mesic	Neuns Sheetiron taxadjunct
		Loamy-skeletal, micaceous, mesic	Sheetiron
	Dystric Lithic Xerochrepts	Loamy, mixed, mesic	Maymen
	Lithic Xerochrepts	Loamy-skeletal, mixed, mesic	Goulding
	Typic Xerochrepts	Coarse-loamy, mixed, mesic	Barron
		Sandy, mixed, mesic	Siskiyou
Mollisols	Lithic Argixerolls	Clayey-skeletal, serpentinitic, thermic	Henneke
	Pachic Argixerolls	Fine-loamy, mixed, mesic	Miramar variant
	Typic Argixerolls	Fine-loamy, mixed, mesic	Los Gatos
	Ultic Argixerolls	Fine, mixed, mesic	Musser
	Pachic-Ultic Haploxerolls	Fine-loamy, mixed, mesic	Tatu
	Ultic Haploxerolls	Fine-loamy, mixed, mesic	Laughlin