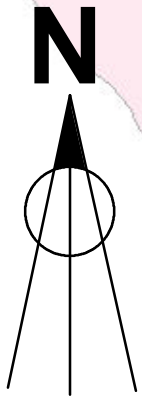
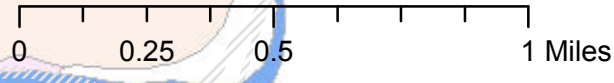
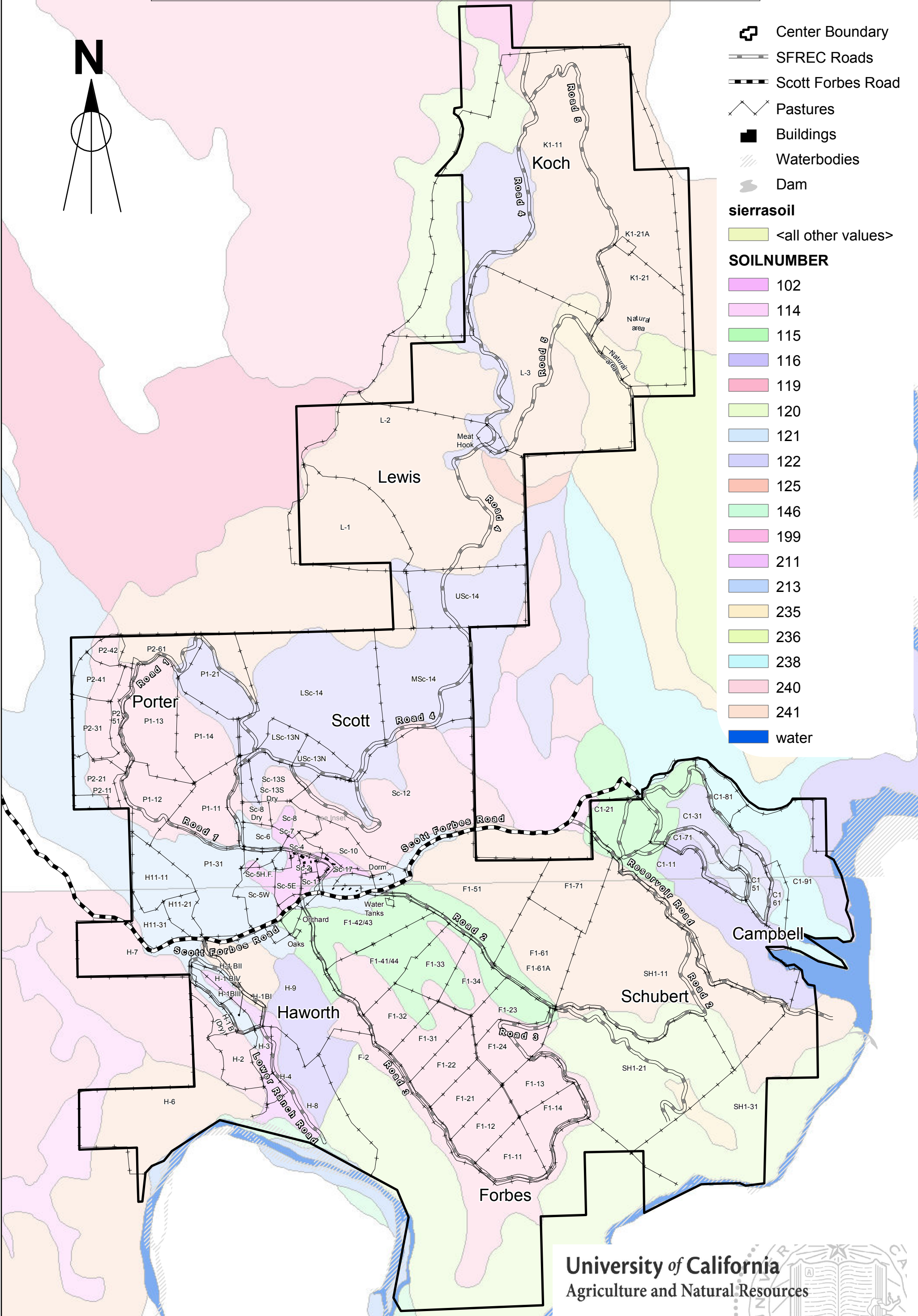


Sierra Foothill Research and Extension Center



- Center Boundary
 - SFREC Roads
 - Scott Forbes Road
 - Pastures
 - Buildings
 - Waterbodies
 - Dam
- sierrasoil**
- <all other values>
- SOILNUMBER**
- 102
 - 114
 - 115
 - 116
 - 119
 - 120
 - 121
 - 122
 - 125
 - 146
 - 199
 - 211
 - 213
 - 235
 - 236
 - 238
 - 240
 - 241
 - water



University of California
Agriculture and Natural Resources

Sierra Foothill
Research and Extension Center



Soils At the Sierra Foothill Research and Extension Center

ID	Class	Slope %	Ref.
102	Argonaut-Auburn Complex	3-8	p. 14
115	Auburn-Sobrante Complex, Gravelly	15-30	p. 27
116	Auburn-Sobrante Complex, Gravelly	30-50	p. 29
120	Auburn-Sobrante-Rock Outcrop Complex	50-75	p. 33
121	Auburn-Timbuctoo-Argonaut Complex	3-8	p. 34
122	Auburn-Timbuctoo-Argonaut Complex	8-15	p. 35
125	Boomer Gravelly Loam	30-50	p. 39
146	Dumps, Mine Tailings	-	p. 52
199	Orose Sandy Loam	8-15	p. 89
211	Ricecross Loam	0-2	p. 97
213	River Wash	-	p. 98
235	Sobrante Gravelly Loam	3-8	p. 111
238	Sobrante-Rock Outcrop Complex	30-50	p. 114
240	Sobrante-Timbuctoo Complex	15-30	p. 116
241	Sobrante-Timbuctoo Complex	30-50	p. 117

Brief Soil Unit Descriptions

102 – This unit consists of about 40% Argonaut loam and 40% Auburn loam. Included in this unit are small areas of Rock outcrop and Sobrante soils. The Argonaut is a moderately deep, well drained soil. The surface layer is about 7 inches thick, while the subsoil is about 28 inches thick. Weathered greenstone is found at a depth of 35 inches. Permeability is very slow. The soil has an available water capacity of 4-6 inches. The Auburn soil is shallow or moderately deep and is well drained. The surface layer is about 2 inches thick, while the subsoil is about 15 inches thick. Hard amphibolite schist is at a depth of 17 inches. Permeability is moderate. The soil has an available water capacity of 2-3 inches.

115 - This unit consists of about 40% Auburn gravelly loam and 40% Sobrante gravelly loam. Included in this unit are small areas of Rock outcrop, Argonaut and Timbuctoo soils. The Auburn soil is shallow or moderately deep and is well drained. The surface layer is about 4 inches thick, while the subsoil is about 13 inches thick. Weathered greenstone is found at a depth of 17 inches. Permeability is moderate. The soil has an available water capacity of 2-3 inches. The Sobrante soil is moderately deep and is well drained. The surface layer is about 5 inches thick, while the subsoil is about 30 inches thick. Weathered greenstone is found at a depth of 35 inches. Permeability is moderate. The soil has an available water capacity of 4-5 inches.

116 - This unit consists of about 50% Auburn gravelly loam and 25% Sobrante gravelly loam. Included in this unit are small areas of Rock outcrop and Timbuctoo soils. The Auburn soil is shallow or moderately deep and is well drained. The surface layer is about 4 inches thick, while the subsoil is about 13 inches thick. Weathered greenstone is found at a depth of 17 inches. Permeability is moderate. The soil has an available water capacity of 2-3 inches. The Sobrante soil is moderately deep and is well drained. The surface layer is about 5 inches thick, while the subsoil is about 30 inches thick. Weathered greenstone is found at a depth of 35 inches. Permeability is moderate. The soil has an available water capacity of 4-5 inches.

120 - This unit consists of about 30% Auburn gravelly loam, 30% Sobrante gravelly loam and 20% Rock outcrop. Included in this unit are small areas of Timbuctoo soils. The Auburn soil is shallow or moderately deep and is well drained. The surface layer is about 4 inches thick, while the subsoil is about 13 inches thick. Weathered greenstone is found at a depth of 17 inches. Permeability is moderate. The soil has an available water capacity of 2-3 inches. The Sobrante soil is moderately deep and is well drained. The surface layer is about 5 inches thick, while the subsoil is about 30 inches thick. Weathered greenstone is found at a depth of 35 inches. Permeability is moderate. The soil has an available water capacity of 4-5 inches. The Rock outcrop supports little or no vegetation.

121 & 122 - These units consists of about 30% Auburn gravelly loam, 25% Timbuctoo gravelly loam and 20% Argonaut gravelly loam. Included in this unit are small areas of Rock outcrop and Sobrante soils. The Auburn soil is shallow or moderately deep and is well drained. The surface layer is about 4 inches thick, while the subsoil is about 13 inches thick. Weathered greenstone is found at a depth of 17 inches. Permeability is moderate. The soil has an available water capacity of 2-3 inches. The Timbuctoo is a moderately deep soil and is well drained. The surface layer is about 4 inches thick, while the subsoil is about 34 inches thick. Weathered diabase is found at a depth of 38 inches. Permeability is slow. The soil has an available water capacity of 4-5.5inches. The Argonaut is a moderately deep, well drained soil. The surface layer is about 7 inches thick, while the subsoil is about 24 inches thick. Weathered greenstone is found at a depth of 31 inches. Permeability is very slow. The soil has an available water capacity of 4-6 inches.

125 – This is a deep, well drained soil. Included in this unit are small areas of Sobrante soils. The surface layer is about 12 inches thick, while the subsoil is about 38 inches thick. Weathered greenstone is found at a depth of 50 inches. Permeability is moderately slow. The soil has an available water capacity of 6-7.5 inches.

199 – This is a shallow, well drained soil. Included in this unit are small areas of Flanly and Sobrante soils. The surface layer is about 2 inches thick, while the subsoil is about 15 inches thick. Weathered gabbrodiorite is found at a depth of 17 inches. Permeability is moderately rapid. The soil has an available water capacity of 1-2 inches.

211 – This is a deep, well drained soil. Included in this unit are small areas of Flanly, Orose, Verjeles and Sobrante soils. The surface layer is about 6 inches thick, while the subsoil is about 66 inches thick. Permeability is moderate. The soil has an available water capacity of 9.5-11 inches. This unit has a capability class of I when irrigated.

235 – This is a moderately deep, well drained soil. Included in this unit are small areas of Auburn, Argonaut, Timbuctoo and Rock outcrop. The surface layer is about 5 inches thick, while the subsoil is about 30 inches thick. Weathered greenstone is found at a depth of 35 inches. Permeability is moderate. The soil has an available water capacity of 4-5 inches.

238 - This unit consists of about 60% Sobrante gravelly loam and 35% Rock outcrop. Included in this unit are small areas of Auburn and Timbuctoo soils. The Sobrante soil is moderately deep and is well drained. The surface layer is about 5 inches thick, while the subsoil is about 30 inches thick. Weathered greenstone is found at a depth of 35 inches. Permeability is moderate. The soil has an available water capacity of 4-5 inches. The Rock outcrop supports little or no vegetation.

240 & 241 - These units consists of about 40% Sobrante gravelly loam and 35% Timbuctoo gravelly loam. Included in this unit are small areas of Auburn, Argonaut and Boomer soils. The Sobrante soil is moderately deep and is well drained. The surface layer is about 5 inches thick, while the subsoil is about 30 inches thick. Weathered greenstone is found at a depth of 35 inches. Permeability is moderate. The soil has an available water capacity of 4-5 inches. The Timbuctoo is a moderately deep soil and is well drained. The surface layer is about 4 inches thick, while the subsoil is about 34 inches thick. Weathered diabase is found at a depth of 38 inches. Permeability is slow. The soil has an available water capacity of 4-5.5inches.

Reference: Lytle, Dennis J. 1998. Soil Survey of Yuba County, California. USDA, NRCS. 437 pages. ...