

Map Unit: 351C—Scout family, 40 to 65 percent slopes.

Ecological Land Unit: 351C—subalpine fir and Engelmann spruce on montane and subalpine, north facing steep mountain slopes.

MAP UNIT SETTINGS

Location: throughout the survey area, major extent.

Landform: steep mountain slopes.

Parent material: residuum and colluvium.

Geologic symbol: Pmb, PPm, TrPs.

Elevation range: 8,500 to 11,800 feet.

Aspect: north.

Climatic zone: montane and subalpine.

Mean annual precipitation: 20 to 40 inches.

Mean annual air temperature: 36°F. to 44°F.

Average annual snowfall: 200 to 400 inches.

COMPOSITION

85 percent Scout and similar soils.

Contrasting inclusions

10 percent cliffs and talus.

5 percent Hechtman family on residuum.

TYPICAL PROFILES:

Scout

Surface covering layer:

1.5 to 0 inches - spruce, fir and pine litter and duff.

Surface layer(s):

0 to 7 inches - light brown, very cobbly loam.

Subsurface layer(s):

7 to 19 inches - light reddish brown, extremely cobbly fine sandy loam.

19 to 30 inches - light reddish brown, extremely gravelly sandy loam.

Subsoil layer(s):

30 to 39 inches - red, extremely gravelly sandy loam.

39 to 57 inches - red, extremely cobbly sandy loam.

57 to 72 inches - red, extremely cobbly sandy clay loam.

SOIL PROPERTIES AND QUALITIES

Scout

Effective rooting depth: greater than 20 inches.

Natural drainage class: somewhat excessively.

Depth to seasonal high water table: greater than 6 feet.

Available water capacity: low.

Permeability: moderately rapid.

Runoff: moderate.

VEGETATION

Potential natural communities:

Scout: subalpine fir-Engelmann spruce/myrtle pachistima (Abla-Pien1/Pamy) below 9,500 and subalpine fir-Engelmann spruce/Rocky Mountain whortleberry (Abla-Pien1/Vamy) and subalpine fir-Engelmann spruce/heartleaf arnica (Abla-Pien1/Arco2).

Seral stages: includes plants of the respective potential natural communities.

Present vegetation: includes plants of the respective potential natural communities.

USE AND MANAGEMENT CONSIDERATIONS

Major uses: timber harvest, dispersed non-motorized recreation, wildlife habitat and watershed.

Mass movement potential:

Landslides: low.

Debris flows: low.

Snow avalanche: low.

Road and trail limitations:

Cut and fill slope stability

Scout: moderate - slope.

Improved unsurfaced roads:

Scout: severe - slope.

Offroad vehicle roads and trails:

Scout: severe - slope and erosion hazard.

Foot trails and paths:

Scout: moderate - slope.

Revegetation limitations:

Scout: moderate - slope, low available water capacity.

Revegetation considerations: Mulch will conserve soil moisture and protect seedling establishment. Surface netting in conjunction with mulching will reduce the erosion hazard.

Timber management considerations: Harvest is limited by slope and erosion hazard.

Wildlife management considerations: This map unit provides shelter for upland game animals.

Acid precipitation buffering capacity: moderate.