Ay =Cryaquolls, 1 to 5 percent slopes

Setting

Landform: Stream terraces
Elevation: 7,200 to 9,000 feet
Native plants: Grass and willows
Air temperature: 38 to 42
degrees F
Annual precipitation: 20 to 30
inches
Frost-free period: 60 to 75 days

Composition

Cryaquolis soil and similar inclusions: 85 percent Contrasting inclusions: 15 percent

Cryaquolis: These soils are highly variable and typically have a dark surface layer over stratified mottled layers. Sand and gravel are at depths of 15 to 40 inches.

Typical Profile
Surface (ayer:
0 to 9 inches=loam
Subsurface (ayer:
9 to 18 inches=loamy sand
Substratum:
18 to 60 inches=stratified sand
and grave!

Soil Properties and Qualities
Parent material: AlluviumDepth class: Very deep
Drainage class: Very poorly
drained
Permeability: Moderately rapid
Available water capacity: Low
Potential rooting depth: 60 or
more inches
Water Table: 6 to 30 inches
Runoff: Slow
Hazard of water erosion: Low
Flooding: Occasional

Contrasting Inclusions

Soils that have a dark surface layer greater than 10 inches thick
Soils that do not have a water table

Major Current Uses Livestock grazing, wildlife Habitat

Major Management Factors

Urban Development
Soil-related factors: Water
table, flooding
Suitability as a site for
buildings: Poor

Ecological Site

Dominant overstory vegetation in the potential plant community: Willows, alder Dominant understory vegetation in the potential plant community: seages, pluegrass, shrubby cinquefoil, alpine timothy, tufted hairgrass, slender wheatgrass Annual production of air-dry vegetation: 3,700 pounds per acre

Interpretive Groups
Land capability subclass: 5W
Ecological site: #32301,
Alint/sali
MLRA: 48A

AC =Adderton-Naz Families-Cryaquolls complex, 3 to 15 percent slopes

Setting
Landform: Drainageways, fans,
foot slopes
Elevation: 7,600 to 9,000 feet
Native plants: Grass, willows
Air temperature: 38 to 42
degrees F
Annual precipitation: 20 to 30
inches
Frost-free period: 60 to 75 days

Composition

Adderton soil and similar inclusions: 40 percent.
Naz soil and similar inclusions: 30 percent.
Cryaquolis soil and similar inclusions: 20 percent.
Contrasting inclusions: 10 percent.

Typical Profile Adderton

Surface layer:
O to 14 inches=gravelly loam
Subsoil:
14 to 25 inches=gravelly loam
25 to 46 inches=gravelly sandy
loam
Substratum:
46 to 57 inches=gravelly coarse
sandy loam
57 to 60 inches=sandy loam

Naz

Surface layer:
O to 32 inches=gravelly sandy
loam
Substratum:
32 to 60 inches=gravelly sandy
loam

Cryaquolis

Surface layer:
O to 9 inches=loam
Substratum:
9 to 18 inches=loamy sand
18 to 60 inches=stratified sand
and grave!

Soil Properties and Qualities

Adderton

Parent material: Alluvium
Depth class: Very deep
Drainage class: Well drained
Permeability: Moderate
Available water capacity: High
Potential rooting depth: 60 or
more inches
Flooding: Rare
Runoff: Rapid
Hazard of water erosion: High
Hazard of wind erosion: High

Naz

Soil Properties and Qualities
Parent material: Alluvium
Depth class: Very deep
Drainage class: Well drained
Permeability: Moderately rapid
Available water capacity: High
Potential rooting depth: 60 or
more inches
Flooding: Rare
Runoff: Rapid
Hazard of water erosion: High
Hazard of wind erosion: High

Cryaquolis

Soil Properties and Gualities
Parent material: Al:uvium
Depth class: Very deep
Drainage class: Poorly drained
Permeability: Moderate
Available water capacity:
Moderate to high
Potential rooting depth: 60 or
more inches
Flooding: Rare
Water table: 1 to 2 feet
Runoff: Slow
Hezard of water erosion: Slight
Hazard of wind erosion: Slight

Contrasting Inclusions

Soils that lack a thick dark surface layer
Soils that have a developed subsoil
Soils that have bedrock at depths of 20 to 40 inches

Major Current Uses Livestock grazing, wildlife habitat

Major Management Factors

Ecological Site

Soil-related factors: Erosion Potential plant community: Parry oatgrass, needleanothread, mountain muhiy, willows, aider, forbs

Annual production of air-dry regetation: 1,800 pounds per

Urban Development

Soil-related factors: Flooding, erosion, water table Suitability as a site for buildings: Good in areas of Adderton and Naz solis

Interpretive Groups

Land capability succlass: 6E Ecological site for Adderton and Naz solis: Dapal/Canel Ecological site for Cryaquolis soil: 41402-32301, Alnus/salex MLRA: 48A

Ln =Leighcan Family, warm, 10 to 40 percent slopes, extremely stony

Setting
Landform: Mountains
Position on landscape:
Mountainsides, south-east-westfacing slopes
Elevation: 9,000 to 10,200 feet
Native plants: Lodgepole Pine
Air temperature: 36 to 40
degrees F
Annual precipitation: 30 to 35
inches
Frost-free period: 30 to 60 days

Composition

Leighcan soil and similar inclusions: 85 percent Contrasting inclusions: 10 percent Rock outcrop: 5 percent

Typical Profile

Surface layer:

1 to 0 inches=partially
decomposed litter, moss
0 to 5 inches=very gravelly
sandy loam
Subsoil:
5 to 32 inches=very gravelly
sandy loam
Substratum:
32 to 51 inches=very gravelly
loamy coarse sand
Bedrock:
51 inches=soft to hard schist,
pegmatite

Soil Properties and Qualities
Parent material: Glacial
deposits
Depth class: Very deep
Drainage class: Well drained
Permeability: Moderately rapid
Available water capacity:
Moderate
Potential rooting depth: 60 or
more inches
Runoff: Slow
Hazard of water erosion: Slight
Hazard of wind erosion: Slight

Contrasting Inclusions Soils that are less than 40

inches to bedrock
Soils that have accumulated clay
in the subsoil

Major Current Uses

Timber, recreation, wiid!ife habitat

Major Management Factors

Ecological Site

stones and boulders
Site index for Lodgepole pines
50
Estimated annual production per
acres 41 cubic feet or 2.9 cubic
meters per hectar
Dominant overstory vegetation in
the potential plant communitys
Lodgepole pine, with lesser
amounts of Subalpine fir and
Engelmann Spruce
Dominant understory vegetation
in the potential plant
communitys Grouse whom to be enderery,
sedges, forbs

Urban Development

Soil-related factors: Large stones and boulders, steepness of slope
Suitability as a site for buildings: Poor

Interpretive Groups

Land capability subclass: 6E Ecological site: #00910 PIco/VAsc MLRA: 48A TS =Troutville-Bullwark Families complex, 20 to 45 percent slopes, stony

Setting

Landform: Mountains

Position on landscape: North and

east-facing mountainsides

Elevation: 7,800 to 9,800 feet *Native plants*: Lodgepole Pine,

Douglas-fir

Air temperature: 38 to 42

degrees F

Annual precipitation: 18 to 30

inches

Frost-free period: 30 to 70 days

Composition

Troutyille soil and similar inclusions: 50 percent Bullwark soil and similar inclusions: 30 percent . Contrasting inclusions: 20 percent

Typical Profile Troutville

Surface (ayer:

2 to O inches=covered with about 1 percent stones, needles, twigs and partially decomposed pine litter

O to 9 inches=gravelly sandy

Subsoil:

9 to 30 inches=very gravelly sandy loam and sandy clay loam 30 to 60 inches=very gravelly sandy loam

Bullwark

Surface layer:

2 to 1 inches=covered with about 1 percent stones, partially decomposed pine needles and twigs

1 to O inches=mostly decomposed pine litter and moss

O to 8 inches=gravelly sandy loam

Subsoil:

8 to 13 inches=gravelly sandy loam 13 to 22 inches=very gravelly sandy loam and sandy clay loam Bedrock:
22 inches=soft schist that grades to hard bedrock with denth

Soil Properties and Qualities

Troutville

Parent material: Colluvium

Depth class: Very deep

Drainage class: Well drained

Permeability: Moderate

Available water capacity: High

Potential rooting depth: 60 or

more inches

Flooding: None

Runoff: Medium

Hazard of water erosion:

Moderate

Hazard of wind erosion: Slight

Bullwark

Parent material: Colluvium,
residuum

Depth class: Moderately deep

Drainage class: Well drained

Permeability: Moderately rapid

Available water capacity: Low to
moderate

Potential rooting depth: 20 to
40 inches

Flooding: None
Runoff: Rapid

Hazard of water erosion:
Moderate

Hazard of wind erosion: Slight

Contrasting Inclusions
Soils that are less than 20
inches to bedrock
Soils that average less than 35
percent rock fragments

Major Current Uses Timber, livestock grazing, wildlife habitat

Major Management Factors

Ecological Site Soil-related factors on this unit: Large stones on the surface Site index for Lodgepole pine: 54 Estimated annual production per acre: 44 cubic feet or 3.1 cubic meters per hectar Dominant overstory vegetation in the potential plant community: Lodgepole pine, Douglas fir Dominant understory vegetation in the potential plant community: Kinnikinnick, buffaloberry, common juniper, sedges

Urban Development

Soil-related factors on the Troutville soil: Erosion, steepness of slope Soil-related factors on the Bullwark soil: Moderate depth to bedrock, erosion, steepness of slope Suitability as a site for buildings: Poor

Interpretive Groups

Land capability subclass: 7e Ecological site for this unit: #00908 PIco-PSme/SHca MLRA: 48A

Sc =Scout Family, 10 to 40 percent slopes, very bouldery Setting

Landform: Mountains

Position on landscape: Glacial moraines

Elevation: 8,800 to 10,000 feet

Native plants: Lodgepole Pine

Air temperature: 36 to 40 degrees F

Annual precipitation: 30 to 35 inches

Frost-free period: 30 to 60 days

Composition

Scout soil and similar inclusions: 95 percent Contrasting inclusions: 5 percent

Typical Profile

Surface (ayer:
2 to 0 incres=partially
decomposed needles and twigs
0 to 7 inches=very cobbly sandy
loam
Subsoil:
7 to 60 inches=very cobbly sandy

Soil Properties and Qualities
Parent material: Glacial till
and outwash
Depth class: Very deep
Drainage class: Somewhat
excessively drained
Permeability: Moderately rapid
Available mater capacity: Low to
moderate
Potential rooting depth: 60 or
more inches
Flooding: None
Runoff: Slow
Hazard of mater erosion: Slight
Hazard of mind erosion: Slight

Contrasting Inclusions
Soils that are less than 40 inches to bedrock

Major Current Uses Timber, wildlife habitat, recreation

Major Management Factors

Ecological site Soil-related factors: Large stones and boulders Site index for Lodgepole pine: Estimated annual production per acre: 40 cubic feet or 2.8 meters per hectar Dominant overstory vegetation in the potential plant community: Dominantly Lodgepole pine with smaller amounts of aspen, Engelmann spruce, and Subarpine fir Dominant understory vegetation in the potential plant community: Grouse whortleberry, common juniper, sedges, buffaloberry

Urban Development

Soil-related factors: Large stones and boulders, steepness of slope.
Suitability as a site for buildings: Poor

Interpretive Groups
Land capability subclass: 7e
Ecological site: #00910
PIco/VAsc
MLRA: 48A

Le =Leighcan Family, 10 to 40
percent slopes, extremely stony
Setting
Landform: Mountains
Position on landscape:
Mountainsides, north-facing
Elevation: 9,200 to 10,500 feet
Native plants: Engelmann spruce,
Subalpine fir
Air temperature: 36 to 40
degrees F
Annual precipitation: 30 to 35
inches
Frost-free period: 30 to 60 days

Composition
Leighcan soil and similar
inclusions: 90 percent
Contrasting inclusions: 10
percent

Typical Profile
Surface (ayers
1 to 0 inches=partially
decomposed litter, moss
0 to 5 inches=very gravelly
sandy loam
Subsoils
5 to 32 inches=very gravelly
sandy loam
Substratums
32 to 51 inches=very gravelly
loamy coarse sand
Bedrocks
51 inches=soft to hard schist,
pegmatite

Soil Properties and Qualities
Parent material: Glacial
deposits
Depth class: Very deep
Drainage class: Well drained
Permeability: moderately rapid
Available water capacity:
moderate
Potential rooting depth: 60 or
more inches
Runoff: Slow
Hazard of water erosion: Slight
Hazard of wind erosion: Slight

Contrasting Inclusions
Soils that are less than 40
inches to bedrock
Soils that have accumulated clay
in the subsoil

Major Current Uses
Recreation, timber, wildlife
habitat

Major Management Factors

Ecological Site
Soil-related factors: Large
stones and boulders
Site index for Spruce-fir: 52
Estimated annual production per
acres 41 cubic feet or 2.9 cubic
meters per hectar
Dominant overstory vegetation in
the potential plant community:
Engelmann spruce, Subalpine fir
Dominant understory vegetation
in the potential plant
community: Grouse whortleberry,
sedges, forbs

Urban Development
Soil-related factors: Large
stones and boulders
Suitability as a site for
buildings: Steepness of slope

Interpretive Groups
Land capability subclass: 6E
Ecological site: #00321C ABlaPien1/VAsc
MLRA: 48A

AC =Adderton-Naz FamiliesCryaquolls complex, 3 to 15
percent slopes
Setting
Landform: Drainageways, fans,
foot slopes
Elevation: 7,600 to 9,000 feet
Native plants: Grass, willows
Air temperature: 38 to 42
degrees F
Annual precipitation: 20 to 30
inches
Frost-free period: 60 to 75 days

Composition

Adderton soil and similar inclusions: 40 percent. Naz soil and similar inclusions: 30 percent Cryaquolls soil and similar inclusions: 20 percent Contrasting inclusions: 10 percent

Typical Profile Adderton

Surface layer:
O to 14 inches=gravelly loam
Subsoil:
14 to 25 inches=gravelly loam
25 to 46 inches=gravelly sandy
loam
Substratum:
46 to 57 inches=gravelly coarse
sandy loam
57 to 60 inches=sandy loam

Nia z

Surface layer:

O to 32 inches=grave!!y sandy

loam

Substratum:

32 to 60 inches=grave!!y sandy

loam

Cryaquolis
Surface layer:
O to 9 inches=loam
Substratum:
9 to 18 inches=loamy sand
18 to 60 inches=stratified sand
and gravel

Soil Properties and Qualities

Adderton

Parent material: Alluvium
Depth class: Very deep
Drainage class: Well drained
Permeability: Moderate
Available water capacity: High
Potential rooting depth: 60 or
more inches
Flooding: Rare
Runoff: Rapid
Hajard of water erosion: High
Hazard of wind erosion: High

Naz

Soil Properties and Qualities
Parent material: Alluvium
Depth class: Very deep
Drainage class: Well drained
Permeability: Moderately rapid
Available water capacity: High
Potential rooting depth: 60 or
more inches
Flooding: Rare
Runoff: Rapid
Hazard of water erosion: High
Hazard of wind erosion: High

Cryaquolis

Soil Properties and Qualities
Parent material: Al:uvium
Depth class: Very deep
Drainage class: Poorly drained
Permeability: Moderate
Available water capacity:
Moderate to high
Potential rooting depth: 60 or
more inches
Flooding: Rare
Water table: 1 to 2 feet
Runoff: Slow
Hazard of water erosion: Slight
Hazard of wind erosion: Slight

Contrasting Inclusions

Soils that lack a thick dark surface layer
Soils that have a developed subsoil
Soils that have bedrock at depths of 20 to 40 inches

Major Current Uses Livestock grazing, wildlife habitat

Major Management Factors

Ecological Site

Soil-related factors: Erosion Potential plant community: Parry oatgrass, needleanothread, mountain muhiy, willows, aider, forbs

Annual production of air-dry vegetation: 1,800 pounds per acre

Urban Development

Soil-related factors: Flooding, erosion, water table Suitability as a site for buildings: Good in areas of Adderton and Naz solls

Interpretive Groups

Land capability subclass: 6E
Ecological site for Adderton and
Naz soils: Dapal/Cahel
Ecological site for Cryaquolls
soil: 41402-32301, Alnus/salex
MLRA: 48A

Ay =Cryaquolis, 1 to 5 percent slopes
Setting

Landform: Stream terraces
Elevation: 7,200 to 9,000 feet
Native plants: Grass and Willows
Air temperature: 38 to 42
degrees F
Annual precipitation: 20 to 30
inches
Frost-free period: 60 to 75 days

Composition

Cryaquolls soil and similar inclusions: 85 percent Contrasting inclusions: 15 percent

Cryaquolis: These soils are highly variable and typically have a dark surface layer over stratified mottled layers. Sand and gravel are at depths of 15 to 40 inches.

Typical Profile
Eurface (ayer:
O to 9 incnes=loam
Subsurface (ayer:
9 to 18 incnes=loamy sand
Substratum:
18 to 60 inches=stratified sand

Soil Properties and Qualities
Parent material: AlluviumDepth class: Very deep
Drainage class: Very poorly
drained
Permeability: Moderately rapid
Available mater capacity: Low
Potential rooting depth: 60 or
more inches
Water Table: 6 to 30 inches
Runoff: Slow
Hazard of mater erosion: Low
Hazard of mind erosion: Low
Flooding: Occasional

Contrasting Inclusions
Soils that have a dark surface layer greater than 16 inches thick
Soils that do not have a water table

Major Current Uses
Livestock grazing, wildlife
habitat

Major Management Factors

Urban Development
Soil-related factors: Water
table, flooding
Suitability as a site for
buildings: Poor

Ecological Site

Dominant overstory vegetation in the potential plant community: Willows, alder Dominant understory vegetation in the potential plant community: seages, pluegrass, shrubby cinquefoil, alpine timothy, tufted hairgrass, slender wheatgrass Annual production of air-dry vegetation: 3,700 pounds per acre

Interpretive Groups
Land capability subclass: 5W
Ecological site: #32301,
Alint/sali
MLRA: 48A

CC =Cumulic Cryoborolls, 7 to 25
percent slopes
Setting
Landform: Mountains
Position on landscape:
Drainageways
Elevation: 8,500 to 9,500 feet
Native plants: Aspen
Air temperature: 36 to 40
degrees F
Annual precipitation: 20 to 24
inches
Frost-free period: 60 to 75 days

Composition

Cumulic Cryoborolis soil and similar inclusions: 90 percent This soil is highly variable. About 50 percent of the unit averages less than 35 percent rock fragments and 40 percent averages more than 35 percent. Contrasting inclusions: 10 percent

Typical Profile
Surface (ayer:
O to 30 inches=graveliy loam
Subsoil:
30 to 39 inches=very cobbiy
sandy clay loam
39 to 55 inches=very gravelly
sandy clay loam
Substratum:
55 to 60 inches=very gravelly
sandy loam

Soil Properties and Qualities
Parent material: Alluvium
Depth class: 60 or more inches
Drainage class: Well drained
Permeability: Moderate
Available water capacity: High
Potential rooting depth: 60 or
more inches
Flooding: None
Runoff: Rapid
Hazard of water erosion: High
Hazard of wind erosion: Low

Contrasting Inclusions
Soils that have a water table
Soils that are 20 to 40 inches
to bedrock

Major Current Uses Livestock grazing, wildlife habitat

Major Management Factors

Urban Development
Soil-related factors: Steepness
of slope, large stones, erosion
Suitability as a site for
buildings: Fair

Ecological site
Dominant overstory vegetation in the potential plant community:
Aspen
Dominant understory vegetation in the potential plant community: Sedges, nodding bromegrass, shruppy cinquefo:!, Thurpers fescue, common juniper Annual production of air-dry vegetation: 3,500 pounds per acre

Interpretive Groups
Land capability subclass: 6E,
Ecological site: #10501,
Potr1/Cage1
MLRA: 48A

Le =Leighcan Family, 10 to 40
percent slopes, extremely stony
Setting
Landform: Mountains
Position on landscape:
Mountainsides, north-facing
Elevation: 9,200 to 10,500 feet
Native plants: Engelmann spruce,
Subalpine fir
Air temperature: 36 to 40
degrees F
Annual precipitation: 30 to 35
inches
Frost-free period: 30 to 60 days

Composition
Leighcan soil and similar
inclusions: 90 percent
Contrasting inclusions: 10
percent

Typical Profile

Surface layer:
1 to 0 inches=partially
decomposed litter, moss
0 to 5 inches=very gravelly
sandy loam
Subsoil:
5 to 32 inches=very gravelly
sandy loam
Substratum:
32 to 51 inches=very gravelly
loamy coarse sand
Bedrock:
51 inches=soft to hard schist,
pegmatite

Soil Properties and Qualities
Parent material: Glacial
deposits
Depth class: Very deep
Drainage class: Well drained
Permeability: moderately rapid
Available water capacity:
moderate
Potential rooting depth: 60 or
more inches
Runoff: Slow
Hazard of water erosion: Slight
Hazard of wind erosion: Slight

Contrasting Inclusions
Soils that are less than 40 inches to bedrock
Soils that have accumulated clay in the subsoil

Major Current Uses
Recreation, timber, wildlife
habitat

Major Management Factors

Ecological Site
Soil-related factors: Large
stones and boulders
Site index for Spruce-fir: 52
Estimated annual production per
acres 41 cubic feet or 2.9 cubic
meters per hectar
Dominant overstory vegetation in
the potential plant community;
Engelmann spruce, Subalpine fir
Dominant understory vegetation
in the potential plant
community: Grouse whortleberry,
sedges, forbs

Urban Development
Soil-related factors: Large
stones and boulders
Suitability as a site for
buildings: Steepness of slope

Interpretive Groups
Land capability subclass: 6E
Ecological site: #00321C ABlaPIen1/VAsc
MLRA: 48A

Ln =Leighcan Family, warm, 10 to
40 percent slopes, extremely
stony
Setting
Landform: Mountains
Position on landscape:
Mountainsides, south-east-westfacing slopes
Elevation: 9,000 to 10,200 feet
Native plants: Lodgepole Pine
Air temperature: 36 to 40
degrees F
Annual precipitation: 30 to 35
inches
Frost-free period: 30 to 60 days

Composition

Leighcan soil and similar inclusions: 85 percent Contrasting inclusions: 10 percent Rock outcrop: 5 percent

Typical Profile

Surface (ayer:
1 to 0 inches=partially
decomposed litter, moss
0 to 5 inches=very gravelly
sandy loam
Subsoil:
5 to 32 inches=very gravelly
sandy loam
Substratum:
32 to 51 inches=very gravelly
loamy coarse sand
Bedrock:
51 inches=soft to hard schist,
pegmatite

Soil Properties and Qualities
Parent material: Glacial
deposits
Depth class: Very deep
Drainage class: Well drained
Fermeability: Moderately rapid
Available water capacity:
Moderate
Potential rooting depth: 60 or
more inches
Runoff: Slow
Hazard of water erosion: Slight
Hazard of wind erosion: Slight

Contrasting Inclusions
Soils that are less than 40 inches to bedrock
Soils that have accumulated clay in the subsoil

Major Current Uses
Timber, recreation, wiid!ife
habitat

Major Management Factors

Ecological Site Soil-related factors: Large stones and boulders Site index for Lodgepole pine: Estimated annual production per acre: 41 cubic feet or 2.9 cubic meters per hectar Dominant overstory vegetation in the potential plant community; Lodgepole pine, with lesser amounts of Subalpine fir and Engelmann Spruce Dominant understory vegetation in the potential plant community: Grouse wnortleberry, sedges, forbs

Urban Development
Soil-related factors: Large
stones and boulders, steepness
of slope
Suitability as a site for
buildings: Poor

Interpretive Groups
Land capability subclass: 6E
Ecological site: #00910
PIco/VAsc
MLRA: 48A

Sc =Scout Family, 10 to 40
percent slopes, very bouldery
Setting
Landform: Mountains
Position on landscape: Glacial
moraines
Elevation: 8,800 to 10,000 feet
Native plants: Lodgepole Pine
Air temperature: 36 to 40
degrees F
Annual precipitation: 30 to 35
inches
Frost-free period: 30 to 60 days

Composition
Scout soil and similar
inclusions: 95 percent
Contrasting inclusions: 5
percent

Typical Profile
Surface layer:
2 to 0 inches=partially
decomposed needles and twigs
0 to 7 inches=very cobbly sandy
loam
Subsoil:
7 to 60 inches=very cobbly sandy

Soil Properties and Qualities
Parent material: Glacial till
and outwash
Depth class: Very deep
Drainage class: Somewhat
excessively drained
Permeability: Moderately rapid
Available mater capacity: Low to
moderate
Potential rooting depth: 60 or
more inches
Flooding: None
Runoff: Slow
Hazard of mater erosion: Slight
Hazard of mind erosion: Slight

Contrasting Inclusions
Soils that are less than 40 inches to bedrock

Major Current Uses Timber, wildlife habitat, recreation

Major Management Factors

Ecological site Soil-related factors: Large stones and boulders Site index for Lodgepole pine: Estimated annual production per acre: 40 cubic feet or 2.8 meters per hectar Dominant overstory vegetation in the potential plant community: Dominantly Lodgepole pine with smaller amounts of aspen, Engelmann spruce, and Subalpine fir Dominant understory vegetation in the potential plant community: Grouse whortleberry, common juniper, seages, buffaloberry

Urban Development
Soil-related factors: Large
stones and boulders, steepness
of slope
Suitability as a site for
buildings: Poor

Interpretive Groups
Land capability subclass: 7e
Ecological site: #00910
PIco/VAsc
MLRA: 48A

THR =Troutville-Hechtman
Families-Rock outcrop complex,
30 to 70 percent slopes, very
stony
Setting
Landform: Mountains
Position on landscape:
Mountainsides
Elevation: 7,200 to 9,500 feet
Native plants: Mixed conifers
Air temperature: 38 to 42
degrees F
Annual precipitation: 16 to 24
inches
Frost-free period: 60 to 75 days

Composition

Troutville soil and similar inclusions: 40 percent Hechtman soil and similar inclusions: 30 percent Rock outcrop: 20 percent Contrasting inclusions: 10 percent

Typical Profile Troutville

Surface (ayer:
2 to 0 inches=covered with 1 to
3 percent stones, needles,
twigs, and partially decomposed
pine litter
0 to 9 inches=gravelly sandy
loam
Subsoil:
9 to 30 inches=very gravelly
sandy loam and sandy clay loam
30 to 60 inches=very gravelly
sandy loam

Hechtman

Surface layer:
Surface is covered with 3 to 5
percent stones
O to 4 inches=very gravelly
sandy loam
Subsoil:
4 to 11 inches=very gravelly
sandy loam
Substratum:
11 to 19 inches=soft schist and
gneiss
Bedrock:
19 inches=hard gneiss and schist

Rock outcrop

Near vertical escarpments of
gneiss and schist

Soil Properties and Qualities

Troutville

Parent material: Colluvium
Depth class: Deep and very deep
Drainage class: Well drained
Permeability: Moderately rapid
Available water capacity:
Moderate
Potential rooting depth: 40 to
60 inches or more
Runoff: Very rapid
Hazard of water erosion: High
Hazard of wind erosion: Low

Hechtman

Parent materials Residuum
Depth classs 5 to 20
Drainage classs Somewhat
excessively drained
Permeabilitys Moderately rapid
Available water capacitys Very
low
Potential rooting depths 5 to 20
inches
Runoffs Very rapid
Hazard of water erosions Moderate

Similar Inclusions
Soils that are deep but do not have a developed subsoil

Contrasting Inclusions
Soils that average 20 to 40 inches to bedrock

Major Current Uses Timber, wildlife habitat

Major Management Factors

Ecological Site Soil-related factors on the Troutville soil: Steepness of slope Soil-related factors on the Hechtman soil: Depth to bedrock Site index for Douglas fir: 47 Estimated annual production per acre: 34 cubic feet or 2.4 cubic meters per hectar Dominant overstory vegetation in the potential plant community: Douglas fir, Lodgepole pine Dominant understory vegetation in the potential plant community: Kinnikinnick, wax currant, buffaloberry, sedges, spike fescue, biuegrass In many areas the Douglas fir has died and is presently dominated by Lodgepole pine

Urban Development

Soil-related factors on the Troutville soil: Steepness of slope, large stones on the surface Soil-related factors on the Hechtman soil: Depth to bedrock Suitability as a site for buildings: Poor

Interpretive Groups
Land capability subclass: Te
Ecological site for this unit:
01219B PSme/ARad-JUco
MLRA: 48A



TS =Troutville-Bullwark Families complex, 20 to 45 percent slopes, stony Setting

Landform: Mountains

Position on landscape: North and

east-facing mountainsides

Elevation: 7,800 to 9,800 feet Native plants: Lodgepole Pine,

Douglas fir

Air temperature: 38 to 42

degrees F

Annual precipitation: 18 to 30

inches

Frost-free period: 30 to 70 days

Composition

Troutville soil and similar inclusions: 50 percent Bullwark soil and similar inclusions: 30 percent Contrasting inclusions: 20 percent

Typical Profile Troutville

Surface (ayer:

2 to 0 inches=covered with about I percent stones, needles, twigs and partially decomposed pine

O to 9 inches=gravelly sandy loam

Subsoil:

9 to 30 inches=very gravelly sandy loam and sandy clay loam 30 to 60 inches=very gravelly . sandy loam

Bullwark

Surface layer:

2 to 1 inches=covered with about 1 percent stones, partially decomposed pine needles and twigs 1 to O inches=mostly decomposed

pine litter and moss

O to 8 inches=gravelly sandy loam

Subsoil:

8 to 13 inches=gravelly sandy

13 to 22 inches=very gravelly sandy loam and sandy clay loam Bedrock: 22 inches=soft schist that grades to hard bedrock with depth

Soil Properties and Qualities

Troutville Parent material: Colluvium Depth class: Very deep Drainage class: Well drained Permeability: Moderate Available water capacity: High Potential rooting depth: 60 or more inches Flooding: None Runoff: Medium Hazard of water erosion: Moderate Hazard of wind erosion: Slight

Bullwark

Parent material: Colluvium, residuum Depth class: Moderately deep Drainage class: Well drained Permeability: Moderately rapid Available water capacity: Low to moderate Potential rooting depth: 20 to 40 inches Flooding: None Runoff: Rapid Hazard of water erosion: Moderate Hazard of wind erosion: Slight

Contrasting Inclusions Soils that are less than 20 inches to bedrock Soils that average less than 35 percent rock fragments

Major Current Uses Timber, livestock grazing, wildlife habitat

Major Management Factors

Ecological Site Soil-related factors on this unit: Large stones on the surface Site index for Lodgepole pine: Estimated annual production per acre: 44 cubic feet or 3.1 cubic meters per hectar Dominant overstory vegetation in the potential plant community: Lodgepole pine, Douglas fir Dominant understory vegetation in the potential plant community: Kinnikinnick, buffaloberry, common juniper, sedges

Urban Development

Soil-related factors on the Troutville soil: Erosion, steepness of slope Soil-related factors on the Bullwark soil: Moderate depth to bedrock, erosion, steepness of slope Suitability as a site for buildings: Poor

Interpretive Groups

Land capability subclass: Te Ecological site for this unit: #00908 PIco-PSme/SHca MLRA: 48A