

Component Description

Hardol and similar soils

Landform: Backslopes of mountains

Slope: 15 to 50 percent

Parent material: Residuum and colluvium derived from limestone and dolomite

Typical vegetation: Letterman needlegrass, Columbia needlegrass, mountain brome, slender wheatgrass, spike fescue, other perennial grasses, bluebunch wheatgrass, other perennial forbs, Utah serviceberry, mountain big sagebrush, other shrubs, snowberry

Typical profile:

Layer 1—0 to 8 inches; very gravelly silt loam

Layer 2—8 to 33 inches; extremely gravelly silt loam

Layer 3—33 to 60 inches; extremely gravelly loam

See "Chemical Soil Properties" table and the "Physical Soil Properties" table for more information.

Component Properties and Qualities

Runoff: High

Saturated hydraulic conductivity class (root zone): Moderately High, (Permeability class: Moderate)

Available water capacity: About 4 inches

Present flooding: None

Present ponding: None

Natural drainage class: Well drained

Interpretive Groups

Nonirrigated land capability: 7s

Ecological site: R028BY085NV—Calcareous loam 16+ P.Z.

Typical soil descriptions including ranges in characteristics are in the "Classification of the Soils" section.

Contrasting Inclusions

Onkeyo and similar soils

Composition: 0 to 4 percent

Slope: 15 to 50 percent

Landform: Mountains

Typical vegetation: Indian ricegrass, other perennial grasses, other perennial forbs, mountain big sagebrush, bluebunch wheatgrass, antelope bitterbrush, other shrubs

Ecological site: R028BY079NV—Shallow loam 10-14 P.Z.

Adobe and similar soils

Composition: 0 to 4 percent

Slope: 30 to 50 percent

Landform: Mountains

Typical vegetation: Bluebunch wheatgrass, black sagebrush

Ecological site: R028BY027NV—Shallow calcareous slope 14+ P.Z.

Haunchee and similar soils

Composition: 0 to 4 percent

Slope: 15 to 50 percent

Landform: Backslopes of upper mountains

Typical vegetation: Needlegrass, Indian ricegrass, needleandthread, muttongrass, other perennial grasses, bluebunch wheatgrass, other perennial forbs, mountain big sagebrush, curlleaf mountainmahogany, other shrubs, snowberry

Ecological site: R028BY032NV—Stony mahogany savanna

Pharo and similar soils

Composition: 0 to 2 percent

Slope: 15 to 50 percent

Landform: Mountains

Typical vegetation: Forest canopy—white fir Forest understory—muttongrass, other perennial grasses, bluebunch wheatgrass, other perennial forbs, goldenweed, mountain big sagebrush, Oregon grape, other shrubs, white fir, limber pine, Great Basin bristlecone pine

Ecological site: F028BY049NV

Kolda and similar soils

Composition: 0 to 1 percent

Slope: 0 to 2 percent

Landform: Lake plains

Typical vegetation: Sedge, rush, basin wildrye, mat muhly, alkali bluegrass, Nevada bluegrass, other perennial grasses, other perennial forbs, other shrubs

Ecological site: R028BY001NV—Wet meadow 10-14 P.Z.

Management

For information about managing this map unit, see the following sections and associated tables of this publication:

"Range" section

"Forest land" section

"Crops and Pasture" section

"Engineering" and "Soil Properties" sections

1340—Heist association**Map Unit Setting**

MLRA: 28A

Landscape: Fan piedmont

Elevation: 5,950 to 7,050

Precipitation: 8 to 12 inches

Air temperature: 46 to 50 degrees Fahrenheit

Frost-free period: 100 to 135 days

Composition

Heist loamy sand, 2 to 8 percent slopes—45 percent

Heist loamy sand, moist, 0 to 4 percent slopes—40 percent

Ravendog loam, 0 to 4 percent slopes—8 percent

Ravendog loam, 4 to 15 percent slopes—7 percent

Component Description**Heist and similar soils**

Landform: Fan skirts

Slope: 2 to 8 percent

Parent material: Alluvium derived from welded tuff and some limestone

Typical vegetation: Indian ricegrass, needleandthread, galleta, other perennial grasses, other perennial forbs, Wyoming big sagebrush, spiny hopsage, winterfat, other shrubs

Typical profile:

Layer 1—0 to 8 inches; loamy sand

Layer 2—8 to 20 inches; fine sandy loam

Layer 3—20 to 60 inches; fine sandy loam

See "Chemical Soil Properties" table and the "Physical Soil Properties" table for more information.

Component Properties and Qualities

Runoff: Very low

Saturated hydraulic conductivity class (root zone): High, (Permeability class: Moderately rapid)

Available water capacity: About 6 inches

Present flooding: None

Present ponding: None

Natural drainage class: Well drained

Interpretive Groups

Nonirrigated land capability: 7e

Ecological site: R028AY015NV—Loamy 8-10 P.Z.

Component Description**Heist and similar soils**

Landform: Fan skirts

Slope: 0 to 4 percent

Parent material: Alluvium derived from welded tuff and some limestone

Typical vegetation: Indian ricegrass, thickspike wheatgrass, needleandthread, basin wildrye, other perennial grasses, other perennial forbs, Wyoming big sagebrush, winterfat, other shrubs

Typical profile:

Layer 1—0 to 8 inches; loamy sand

Layer 2—8 to 20 inches; fine sandy loam

Layer 3—20 to 60 inches; fine sandy loam

See "Chemical Soil Properties" table and the "Physical Soil Properties" table for more information.

Component Properties and Qualities

Runoff: Very low

Saturated hydraulic conductivity class (root zone): High, (Permeability class: Moderately rapid)

Available water capacity: About 6 inches

Present flooding: None

Present ponding: None

Natural drainage class: Well drained

Interpretive Groups

Nonirrigated land capability: 7e

Ecological site: R028AY031NV—Loamy fan 8-10 P.Z.

Typical soil descriptions including ranges in characteristics are in the "Classification of the Soils" section.

Contrasting Inclusions**Ravendog and similar soils**

Composition: 0 to 8 percent

Slope: 0 to 4 percent

Landform: Drainageways

Typical vegetation: Other perennial forbs, Wyoming big sagebrush, other shrubs, Indian ricegrass, needleandthread, other perennial grasses, bluebunch wheatgrass

Ecological site: R028AY095NV—Loamy 10-12 P.Z.

Ravendog and similar soils

Composition: 0 to 7 percent

Slope: 4 to 15 percent

Landform: Drainageways

Typical vegetation: Indian ricegrass, thickspike wheatgrass, needleandthread, basin wildrye, other perennial grasses, other perennial forbs, Wyoming big sagebrush, winterfat, other shrubs

Ecological site: R028AY031NV—Loamy fan 8-10 P.Z.

Management

For information about managing this map unit, see the following sections and associated tables of this publication:

"Range" section

"Engineering" and "Soil Properties" sections

1350—Heist-Chuffa association

Map Unit Setting

MLRA: 28A

Landscape:

Elevation: 6,000 to 6,150

Precipitation: 8 to 10 inches

Air temperature: 46 to 50 degrees Fahrenheit

Frost-free period: 100 to 135 days

Composition

Heist loamy sand, 0 to 2 percent slopes—65 percent

Chuffa silt loam, dry, 0 to 2 percent slopes—20 percent

Kunzler loamy sand, 0 to 2 percent slopes—4 percent

Oupico sandy loam, 0 to 2 percent slopes—4 percent

Linoyer very fine sandy loam, 0 to 2 percent slopes—3 percent

Springbar sandy loam, 0 to 4 percent slopes—2 percent

Veet very gravelly sandy loam, 0 to 2 percent slopes—2 percent

Component Description

Heist and similar soils

Landform: Fan skirts

Slope: 0 to 2 percent

Parent material: Alluvium derived from welded tuff and some limestone

Typical vegetation: Indian ricegrass, needleandthread, galleta, other perennial grasses, other perennial forbs, Wyoming big sagebrush, spiny hopsage, winterfat, other shrubs

Typical profile:

Layer 1—0 to 8 inches; loamy sand

Layer 2—8 to 20 inches; fine sandy loam

Layer 3—20 to 60 inches; fine sandy loam

See "Chemical Soil Properties" table and the "Physical Soil Properties" table for more information.

Component Properties and Qualities

Runoff: Very low

Saturated hydraulic conductivity class (root zone): High, (Permeability class: Moderately rapid)

Available water capacity: About 6 inches

Present flooding: None

Present ponding: None

Natural drainage class: Well drained

Interpretive Groups

Nonirrigated land capability: 7e

Ecological site: R028AY015NV—Loamy 8-10 P.Z.

Component Description**Chuffa and similar soils**

Landform: Fan skirts

Slope: 0 to 2 percent

Parent material: Alluvium over lacustrine deposits from mixed rock sources

Typical vegetation: Bottlebrush squirreltail, Sandberg bluegrass, other perennial grasses, other perennial forbs, Wyoming big sagebrush, greenmolly kochia, other shrubs

Typical profile:

Layer 1—0 to 3 inches; silt loam

Layer 2—3 to 13 inches; silt loam

Layer 3—13 to 60 inches; silt loam

See "Chemical Soil Properties" table and the "Physical Soil Properties" table for more information.

Component Properties and Qualities

Runoff: Low

Saturated hydraulic conductivity class (root zone): Moderately High, (Permeability class: Moderately slow)

Available water capacity: About 12 inches

Present flooding: None

Present ponding: None

Natural drainage class: Well drained

Interpretive Groups

Nonirrigated land capability: 6c

Ecological site: R028AY001NV—Silt flat

Typical soil descriptions including ranges in characteristics are in the "Classification of the Soils" section.

Contrasting Inclusions**Kunzler and similar soils**

Composition: 0 to 4 percent

Slope: 0 to 2 percent

Landform: Fan skirts

Typical vegetation: Indian ricegrass, needleandthread, galleta, other perennial grasses, other perennial forbs, Wyoming big sagebrush, spiny hopsage, winterfat, other shrubs

Ecological site: R028AY015NV—Loamy 8-10 P.Z.

Oupico and similar soils

Composition: 0 to 4 percent

Slope: 0 to 2 percent

Landform: Fan skirts

Typical vegetation: Indian ricegrass, needleandthread, galleta, other perennial grasses, other perennial forbs, Wyoming big sagebrush, spiny hopsage, winterfat, other shrubs

Ecological site: R028AY015NV—Loamy 8-10 P.Z.

Linoyer and similar soils

Composition: 0 to 3 percent

Slope: 0 to 2 percent

Landform: Stream terraces

Typical vegetation: Indian ricegrass, bottlebrush squirreltail, other perennial grasses, other perennial forbs, bud sagebrush, fourwing saltbush, winterfat, other shrubs

Ecological site: R028AY030NV—Silty 8-10 P.Z.

Springbar and similar soils

Composition: 0 to 2 percent

Slope: 0 to 4 percent

Landform: Longshore bar (relict)s

Typical vegetation: Fourwing saltbush, Indian ricegrass, thickspike wheatgrass, needleandthread, other perennial grasses, other perennial forbs, Wyoming big sagebrush, winterfat, other shrubs

Ecological site: R028AY005NV—Sandy 8-10 P.Z.

Veet and similar soils

Composition: 0 to 2 percent

Slope: 0 to 2 percent

Landform: Barrier beach (relict)s

Typical vegetation: Indian ricegrass, needleandthread, galleta, other perennial grasses, other perennial forbs, Wyoming big sagebrush, spiny hopsage, winterfat, other shrubs

Ecological site: R028AY015NV—Loamy 8-10 P.Z.

Management

For information about managing this map unit, see the following sections and associated tables of this publication:

"Range" section

"Crops and Pasture" section

"Engineering" and "Soil Properties" sections

1359—Devildog-Gardenvalley-Qwynn association

Map Unit Setting

MLRA: 29

Landscape: Fan piedmont

Elevation: 5,050 to 6,000

Precipitation: 6 to 10 inches

Air temperature: 50 to 53 degrees Fahrenheit

Frost-free period: 110 to 150 days

Composition

Devildog very gravelly ashy coarse sandy loam, 0 to 4 percent slopes—35 percent

Gardenvalley gravelly fine sandy loam, 0 to 4 percent slopes—30 percent

Qwynn gravelly coarse sandy loam, 0 to 4 percent slopes—25 percent

Lojet coarse sandy loam, 2 to 4 percent slopes—5 percent

Littleailie gravelly sandy loam, 0 to 4 percent slopes—5 percent

Component Description

Devildog and similar soils

Landform: Inset fans

Slope: 0 to 4 percent

Parent material: Alluvium derived from welded tuff with additions of volcanic ash

Typical vegetation: Indian ricegrass, desert needlegrass, needleandthread, galleta, other perennial grasses, Wyoming big sagebrush, fourwing saltbush, winterfat, other shrubs

Typical profile:

Surface rock fragments: About 15 percent gravel

Layer 1—0 to 4 inches; very gravelly ashy coarse sandy loam

Layer 2—4 to 12 inches; gravelly ashy coarse sandy loam

Layer 3—12 to 38 inches; stratified extremely gravelly coarse sand to very gravelly coarse sandy loam

Layer 4—38 to 60 inches; gravelly ashy sandy clay loam

See "Chemical Soil Properties" table and the "Physical Soil Properties" table for more information.

Component Properties and Qualities

Runoff: Low

Saturated hydraulic conductivity class (root zone): Moderately High, (Permeability class: Moderate)

Available water capacity: About 5 inches

Present flooding: Rare

Present ponding: None

Natural drainage class: Somewhat excessively drained

Interpretive Groups

Nonirrigated land capability: 6c

Ecological site: R029XY049NV—Sandy loam 8-12 P.Z.

Component Description**Gardenvalley and similar soils**

Landform: Fan skirts

Slope: 0 to 4 percent

Parent material: Alluvium derived from welded tuff and minor amounts of limestone

Typical vegetation: Indian ricegrass, galleta, bud sagebrush, fourwing saltbush, winterfat, other shrubs

Typical profile:

Surface rock fragments: About 30 percent gravel

Layer 1—0 to 3 inches; gravelly fine sandy loam

Layer 2—3 to 16 inches; very fine sandy loam

Layer 3—16 to 44 inches; fine sandy loam

Layer 4—44 to 62 inches; very gravelly loamy sand

See "Chemical Soil Properties" table and the "Physical Soil Properties" table for more information.

Component Properties and Qualities

Runoff: Very low

Saturated hydraulic conductivity class (root zone): High, (Permeability class: Moderate)

Available water capacity: About 7 inches

Present flooding: None

Present ponding: None

Natural drainage class: Well drained

Interpretive Groups

Nonirrigated land capability: 6s

Ecological site: R029XY042NV—Coarse silty 5-8 P.Z.

Component Description**Gwynn and similar soils**

Landform: Fan remnants

Slope: 0 to 4 percent

Parent material: Alluvium derived from welded tuff with minor amounts of volcanic ash and alluvium derived from limestone

Typical vegetation: Indian ricegrass, desert needlegrass, needleandthread, other perennial grasses, Wyoming big sagebrush

Typical profile:

Surface rock fragments: About 10 percent fine gravel, 15 percent gravel

Layer 1—0 to 3 inches; gravelly coarse sandy loam

Layer 2—3 to 28 inches; gravelly sandy loam

Layer 3—28 to 52 inches; gravelly sandy clay loam

Layer 4—52 to 70 inches; very gravelly coarse sandy loam

See "Chemical Soil Properties" table and the "Physical Soil Properties" table for more information.

Component Properties and Qualities

Runoff: Low

Saturated hydraulic conductivity class (root zone): Moderately High, (Permeability class: Moderate)

Available water capacity: About 6 inches

Present flooding: Very rare

Present ponding: None

Natural drainage class: Well drained

Interpretive Groups

Nonirrigated land capability: 6c

Ecological site: R029XY006NV—Loamy 8-10 P.Z.

Typical soil descriptions including ranges in characteristics are in the "Classification of the Soils" section.

Contrasting Inclusions

Lojet and similar soils

Composition: 0 to 5 percent

Slope: 2 to 4 percent

Landform: Fan remnants

Typical vegetation: Indian ricegrass, desert needlegrass, needleandthread, other perennial grasses, Wyoming big sagebrush

Ecological site: R029XY006NV—Loamy 8-10 P.Z.

Littleailie and similar soils

Composition: 0 to 5 percent

Slope: 0 to 4 percent

Landform: Fan remnants

Typical vegetation: Indian ricegrass, needleandthread, galleta, other perennial grasses, sand dropseed, other perennial forbs, black sagebrush, fourwing saltbush, winterfat, other shrubs

Ecological site: R029XY008NV—Shallow calcareous loam 8-12 P.Z.

Management

For information about managing this map unit, see the following sections and associated tables of this publication:

"Range" section

"Engineering" and "Soil Properties" sections

1360—Veet-Armespan association

Map Unit Setting

MLRA: 29

Landscape: Fan piedmont

Elevation: 5,950 to 6,100

Precipitation: 8 to 12 inches

Air temperature: 49 to 54 degrees Fahrenheit

Frost-free period: 100 to 130 days

Composition

Veet very gravelly sandy loam, dry, 0 to 4 percent slopes—70 percent

Armespan gravelly sandy loam, warm, 2 to 8 percent slopes—20 percent

Penoyer very fine sandy loam, 0 to 1 percent slopes—5 percent

Ravendog loam, 2 to 4 percent slopes—5 percent

Component Description

Veet and similar soils

Landform: Fan skirts

Slope: 0 to 4 percent

Parent material: Alluvium derived from welded tuff

Typical vegetation: Indian ricegrass, desert needlegrass, needleandthread, other perennial grasses, Wyoming big sagebrush

Typical profile:

Layer 1—0 to 4 inches; very gravelly sandy loam

Layer 2—4 to 16 inches; very gravelly sandy loam

Layer 3—16 to 60 inches; stratified very gravelly loamy coarse sand to extremely gravelly sandy loam

See "Chemical Soil Properties" table and the "Physical Soil Properties" table for more information.

Component Properties and Qualities

Runoff: Low

Saturated hydraulic conductivity class (root zone): Moderately High, (Permeability class: Moderate)

Available water capacity: About 3 inches

Present flooding: Rare

Present ponding: None

Natural drainage class: Well drained

Interpretive Groups

Nonirrigated land capability: 7s

Ecological site: R029XY006NV—Loamy 8-10 P.Z.

Component Description

Armespan and similar soils

Landform: Beach terraces

Slope: 2 to 8 percent

Parent material: Alluvium derived from limestone, sandstone, and shale

Typical vegetation: Indian ricegrass, needleandthread, other perennial grasses, other perennial forbs, black sagebrush, other shrubs

Typical profile:

Surface rock fragments: About 35 percent gravel

Layer 1—0 to 3 inches; gravelly sandy loam

Layer 2—3 to 11 inches; gravelly sandy loam
 Layer 3—11 to 22 inches; very gravelly sandy loam
 Layer 4—22 to 60 inches; very gravelly loamy sand

See "Chemical Soil Properties" table and the "Physical Soil Properties" table for more information.

Component Properties and Qualities

Runoff: Very low
 Saturated hydraulic conductivity class (root zone): High, (Permeability class: Moderately rapid)
 Available water capacity: About 4 inches
 Present flooding: None
 Present ponding: None
 Natural drainage class: Well drained

Interpretive Groups

Nonirrigated land capability: 7s
 Ecological site: R029XY008NV—Shallow calcareous loam 8-12 P.Z.

Typical soil descriptions including ranges in characteristics are in the "Classification of the Soils" section.

Contrasting Inclusions

Penoyer and similar soils

Composition: 0 to 5 percent
 Slope: 0 to 1 percent
 Landform: Lake plains
 Typical vegetation: Indian ricegrass, other perennial grasses, bud sagebrush, winterfat, other shrubs
 Ecological site: R029XY020NV—Silty 5-8 P.Z.

Ravendog and similar soils

Composition: 0 to 5 percent
 Slope: 2 to 4 percent
 Landform: Fan skirts
 Typical vegetation: Indian ricegrass, needleandthread, basin wildrye, western wheatgrass, other perennial grasses, other perennial forbs, Wyoming big sagebrush, other shrubs
 Ecological site: R029XY114NV—Loamy fan 8-10 P.Z.

Management

For information about managing this map unit, see the following sections and associated tables of this publication:

- "Range" section
- "Crops and Pasture" section
- "Engineering" and "Soil Properties" sections

1362—Amtoft-Kyler association

Map Unit Setting

MLRA: 28A
 Landscape: Mountains
 Elevation: 6,250 to 6,900
 Precipitation: 8 to 12 inches
 Air temperature: 48 to 52 degrees Fahrenheit
 Frost-free period: 100 to 120 days

Composition

Kyler extremely cobbly loam, cool, 15 to 50 percent slopes—35 percent
Amtoft very gravelly loam, dry, 15 to 50 percent slopes—30 percent
Amtoft gravelly silt loam, 15 to 50 percent slopes—20 percent
Eaglepass extremely stony loam, 15 to 50 percent slopes—5 percent
Ungene gravelly loamy sand, 4 to 15 percent slopes—5 percent
Rock outcrop, 15 to 50 percent slopes—5 percent

Component Description**Kyler and similar soils**

Landform: Mountains, south aspect

Slope: 15 to 50 percent

Parent material: Residuum and colluvium derived from limestone and dolomite

Typical vegetation: Indian ricegrass, needleandthread, galleta, Sandberg bluegrass, other perennial grasses, other perennial forbs, black sagebrush, shadscale, winterfat, other shrubs

Typical profile:

Layer 1—0 to 3 inches; extremely cobbly loam

Layer 2—3 to 11 inches; very gravelly loam

Layer 3—11 to 15 inches; bedrock

See "Chemical Soil Properties" table and the "Physical Soil Properties" table for more information.

Component Properties and Qualities

Runoff: Very high

Depth to restrictive feature: Lithic bedrock: 6 to 14 inches

Saturated hydraulic conductivity class (root zone): Moderately High, (Permeability class: Moderate)

Available water capacity: About 0.9 inch

Present flooding: None

Present ponding: None

Natural drainage class: Well drained

Interpretive Groups

Nonirrigated land capability: 7s

Ecological site: R028AY004NV—Shallow calcareous slope 8-10 P.Z.

Component Description**Amtoft and similar soils**

Landform: Upper mountains, north aspect

Slope: 15 to 50 percent

Parent material: Residuum weathered from limestone, sandstone, and shale

Typical vegetation: Indian ricegrass, galleta, other perennial grasses, other perennial forbs, black sagebrush, other shrubs, Utah juniper

Typical profile:

Layer 1—0 to 3 inches; very gravelly loam

Layer 2—3 to 11 inches; very gravelly loam

Layer 3—11 to 15 inches; bedrock

See "Chemical Soil Properties" table and the "Physical Soil Properties" table for more information.

Component Properties and Qualities

Runoff: Very high

Depth to restrictive feature: Lithic bedrock: 10 to 20 inches

Map Unit Description

Lincoln County, Nevada, North Part

1340 Heist association

Setting

Landscape: Fan piedmonts
Elevation: 5950 to 7050 feet
Mean annual precipitation: 8 to 12 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 135 days

Composition

Heist and similar soils: 45 percent
Heist and similar soils: 40 percent
Minor components: 15 percent

Description of Heist

Setting

Landform: Fan skirts
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Alluvium derived from welded tuff and some limestone

Properties and Qualities

Slope: 2 to 8 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Sodium adsorption ratio maximum: 5.0
Available water capacity: Low (about 5.8 inches)

Interpretive Groups

Land capability (non irrigated): 7e
Ecological site: LOAMY 8-10 P.Z. (R028AY015NV)

Typical Profile

0 to 8 inches: loamy sand
8 to 20 inches: fine sandy loam
20 to 60 inches: fine sandy loam

Description of Heist

Setting

Landform: Fan skirts
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Alluvium derived from welded tuff and some limestone

Properties and Qualities

Slope: 0 to 4 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Sodium adsorption ratio maximum: 5.0
Available water capacity: Low (about 5.8 inches)

Interpretive Groups

Land capability (non irrigated): 7e
Ecological site: LOAMY FAN 8-10 P.Z. (R028AY031NV)

Typical Profile

0 to 8 inches: loamy sand

Map Unit Description

Lincoln County, Nevada, North Part

8 to 20 inches: fine sandy loam
20 to 60 inches: fine sandy loam

Minor Components

Ravendog soils

Percent of map unit: 8 percent
Landform: Drainageways
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: LOAMY 10-12 P.Z. (R028AY095NV)

Ravendog soils

Percent of map unit: 7 percent
Landform: Drainageways
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: LOAMY FAN 8-10 P.Z. (R028AY031NV)

Map Unit Description

Western White Pine County Area, Nevada, Parts of White Pine and Eureka Counties

179 Tulase-Pern association

Setting

Elevation: 6000 to 6500 feet
Mean annual precipitation: 9 to 11 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 120 days

Composition

Tulase and similar soils: 60 percent
Pern and similar soils: 30 percent
Minor components: 1 percent

Description of Tulase

Setting

Landform: Inset fans
Down-slope shape: Linear
Across-slope shape: Linear

Properties and Qualities

Slope: 2 to 4 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 1.98 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Sodium adsorption ratio maximum: 5.0
Available water capacity: High (about 10.8 inches)

Interpretive Groups

Land capability classification (irrigated): 2e
Land capability (non irrigated): 6c
Ecological site: LOAMY FAN 8-12 P.Z. (R028BY045NV)

Typical Profile

0 to 2 inches: silt loam
2 to 60 inches: silt loam

Description of Pern

Setting

Landform: Inset fans
Down-slope shape: Linear
Across-slope shape: Linear

Properties and Qualities

Slope: 0 to 2 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 1.98 in/hr)
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 12.0 inches)

Interpretive Groups

Land capability classification (irrigated): 3c
Land capability (non irrigated): 6c
Ecological site: LOAMY BOTTOM 10-14 P.Z. (R028BY003NV)

Typical Profile

0 to 14 inches: silt loam
14 to 20 inches: silt loam
20 to 60 inches: silt loam

Map Unit Description

Western White Pine County Area, Nevada, Parts of White Pine and Eureka Counties

Minor Components

Devilsgait soils

Percent of map unit: 1 percent

Landform: Flood plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: WET MEADOW 10-14 P.Z. (R028BY001NV)

Map Unit Description

Western White Pine County Area, Nevada, Parts of White Pine and Eureka Counties

534 Duffer-Kolda association

Setting

Elevation: 5800 to 6200 feet
Mean annual precipitation: 7 to 10 inches
Mean annual air temperature: 45 to 47 degrees F
Frost-free period: 100 to 120 days

Composition

Duffer and similar soils: 40 percent
Duffer and similar soils: 30 percent
Kolda and similar soils: 15 percent

Description of Duffer

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear

Properties and Qualities

Slope: 0 to 2 percent
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: About 36 to 60 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate maximum: 60 percent
Gypsum maximum: 5 percent
Salinity maximum: Slightly saline or moderately saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio maximum: 90.0
Available water capacity: High (about 12.0 inches)

Interpretive Groups

Land capability classification (irrigated): 4w
Land capability (non irrigated): 6w
Ecological site: SALINE BOTTOM (R028BY004NV)

Typical Profile

0 to 6 inches: silt loam
6 to 60 inches: silty clay loam

Description of Duffer

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear

Properties and Qualities

Slope: 0 to 2 percent
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: About 18 to 36 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate maximum: 60 percent
Gypsum maximum: 2 percent
Salinity maximum: Moderately saline or strongly saline (16.0 to 32.0 mmhos/cm)
Sodium adsorption ratio maximum: 90.0
Available water capacity: High (about 12.0 inches)

Interpretive Groups

Land capability classification (irrigated): 4w
Land capability (non irrigated): 7w
Ecological site: SALINE MEADOW (R028BY002NV)

Map Unit Description

Western White Pine County Area, Nevada, Parts of White Pine and Eureka Counties

Typical Profile

0 to 6 inches: silt loam
6 to 60 inches: silty clay loam

Description of Kolda

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear

Properties and Qualities

Slope: 0 to 2 percent
Drainage class: Very poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 40 percent
Gypsum maximum: 0 percent
Salinity maximum: Very slightly saline or slightly saline (4.0 to 8.0 mmhos/cm)
Available water capacity: High (about 10.5 inches)

Interpretive Groups

Land capability classification (irrigated): 6w
Land capability (non irrigated): 7w
Ecological site: WET MEADOW 10-14 P.Z. (R028BY001NV)

Typical Profile

0 to 6 inches: silt loam
6 to 22 inches: silt loam
22 to 60 inches: clay

Map Unit Description

Lincoln County, Nevada, North Part

1280 Badena very cobbly loam, 2 to 8 percent slopes

Setting

Landscape: Fan piedmonts
Elevation: 6250 to 7350 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 90 to 110 days

Composition

Badena and similar soils: 90 percent
Minor components: 10 percent

Description of Badena

Setting

Landform: Fan remnants
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Alluvium derived from quartzite

Properties and Qualities

Slope: 2 to 15 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 0 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 3.3 inches)

Interpretive Groups

Land capability (non irrigated): 7s
Ecological site: LOAMY 10-12 P.Z. (R028AY095NV)

Typical Profile

0 to 5 inches: very cobbly fine sandy loam
5 to 10 inches: very cobbly loam
10 to 25 inches: extremely cobbly sandy clay loam
25 to 60 inches: extremely cobbly loamy coarse sand

Minor Components

Badena soils

Percent of map unit: 7 percent
Landform: Fan remnants
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: GRAVELLY LOAM 12-14 P.Z. (R028AY066NV)

Zafod soils

Percent of map unit: 3 percent
Landform: Fan remnants
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: LOAMY 10-12 P.Z. (R028AY095NV)

Map Unit Description

Lincoln County, Nevada, North Part

1310 Duffer-Kolda association

Setting

Landscape: Basin floors
Elevation: 6400 to 6750 feet
Mean annual precipitation: 7 to 10 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 100 to 120 days

Composition

Duffer and similar soils: 40 percent
Duffer and similar soils: 30 percent
Kolda and similar soils: 15 percent
Minor components: 15 percent

Description of Duffer

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loess, alluvium and lacustrine deposits from mixed rock sources

Properties and Qualities

Slope: 0 to 2 percent
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: About 18 to 36 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate maximum: 60 percent
Gypsum maximum: 5 percent
Salinity maximum: Slightly saline or strongly saline (8.0 to 32.0 mmhos/cm)
Sodium adsorption ratio maximum: 90.0
Available water capacity: High (about 11.7 inches)

Interpretive Groups

Land capability classification (irrigated): 4w
Land capability (non irrigated): 7w
Ecological site: SALINE BOTTOM (R028BY004NV)

Typical Profile

0 to 11 inches: silt loam
11 to 48 inches: silty clay loam
48 to 66 inches: stratified very fine sandy loam to silty clay loam

Description of Duffer

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loess, alluvium and lacustrine deposits from mixed rock sources

Properties and Qualities

Slope: 0 to 2 percent
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: About 18 to 36 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Calcium carbonate maximum: 60 percent
Gypsum maximum: 5 percent
Salinity maximum: Slightly saline or strongly saline (8.0 to 32.0 mmhos/cm)
Sodium adsorption ratio maximum: 90.0
Available water capacity: High (about 11.7 inches)

Map Unit Description

Lincoln County, Nevada, North Part

Interpretive Groups

Land capability classification (irrigated): 4w

Land capability (non irrigated): 7w

Ecological site: SALINE MEADOW (R028BY002NV)

Typical Profile

0 to 11 inches: silt loam

11 to 48 inches: silty clay loam

48 to 66 inches: stratified very fine sandy loam to silty clay loam

Description of Kolda

Setting

Landform: Lake plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium over lacustrine deposits derived from mixed rock sources

Properties and Qualities

Slope: 0 to 2 percent

Drainage class: Very poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 0 to 18 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate maximum: 40 percent

Gypsum maximum: 0 percent

Salinity maximum: Very slightly saline or slightly saline (4.0 to 8.0 mmhos/cm)

Sodium adsorption ratio maximum: 12.0

Available water capacity: High (about 10.5 inches)

Interpretive Groups

Land capability classification (irrigated): 6w

Land capability (non irrigated): 7w

Ecological site: WET MEADOW 10-14 P.Z. (R028BY001NV)

Typical Profile

0 to 6 inches: silt loam

6 to 22 inches: silt loam

22 to 60 inches: clay

Minor Components

Sheffit soils

Percent of map unit: 10 percent

Landform: Lake plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: SODIC TERRACE 8-10 P.Z. (R028BY028NV)

Boofuss soils

Percent of map unit: 5 percent

Landform: Lake plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: SODIC FLAT 5-8 P.Z. (R028BY020NV)

Cave Valley Ranch
Soils Map

Field Office: ELY SERVICE CENTER
Agency: NRCS



Legend

- Water
- Soil
- Topography
- Vegetation
- Infrastructure



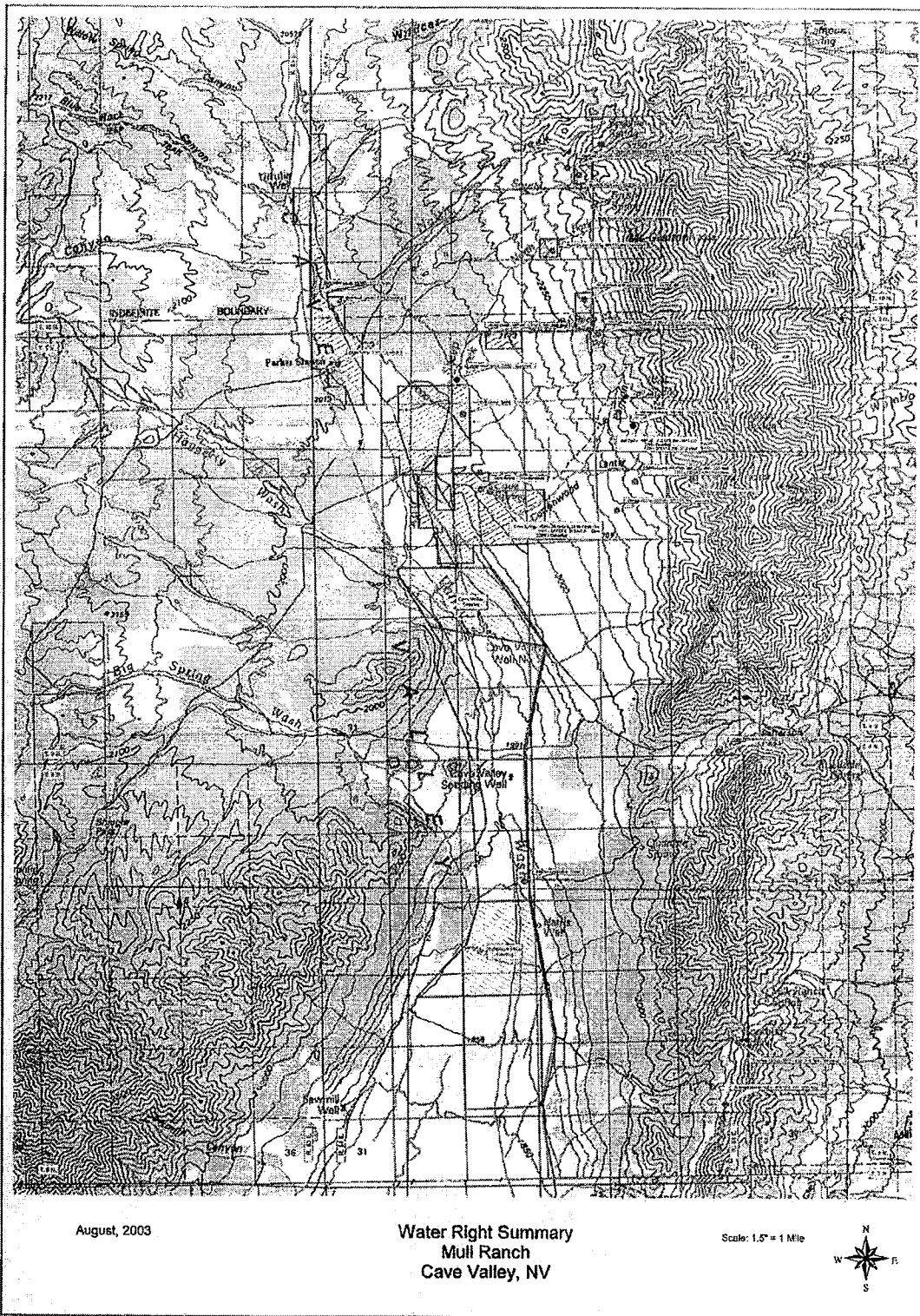
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Field Office: ELY SERVICE CENTER
Agency: NRCS



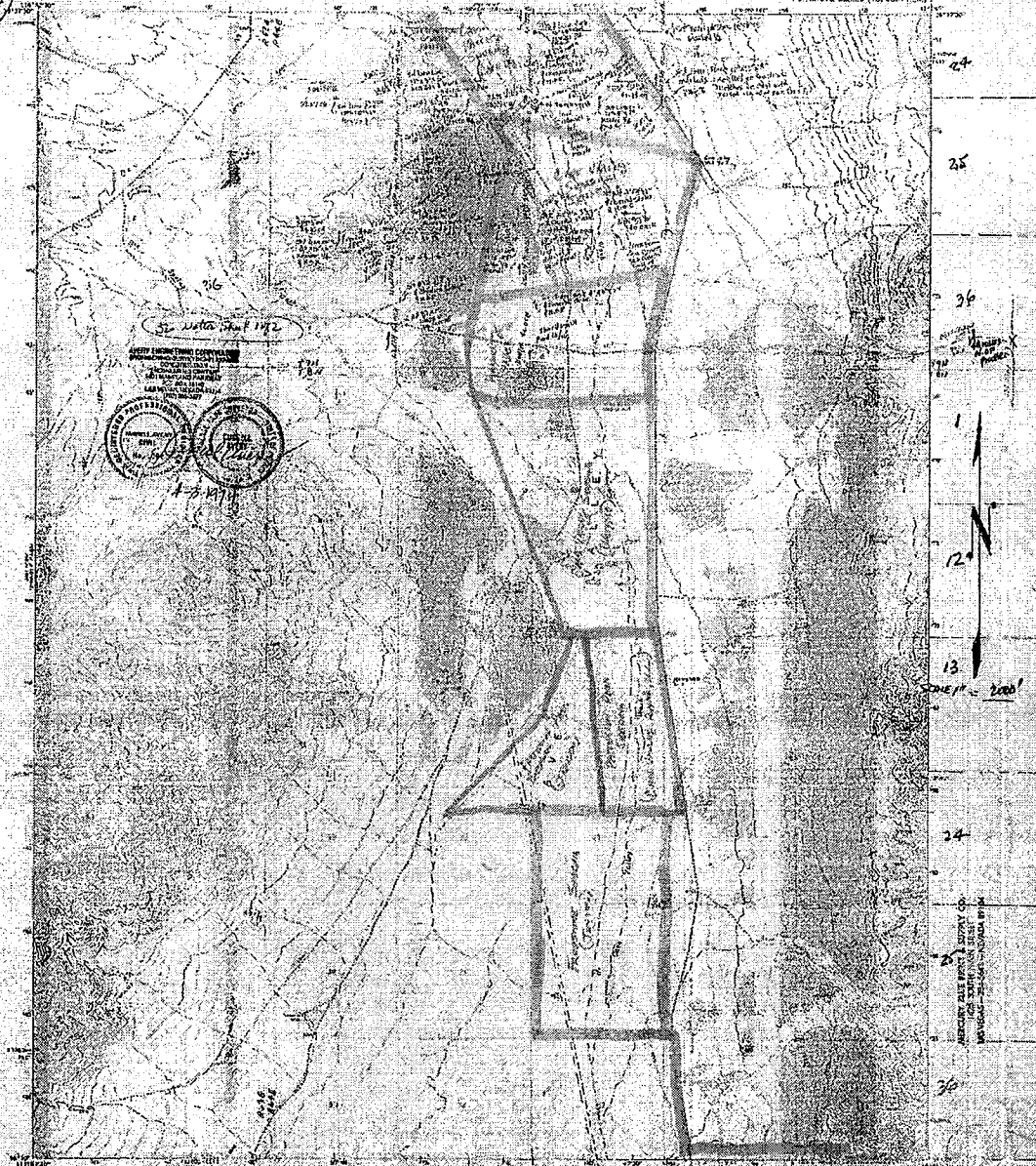




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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DIABLO PASS NE QUADRANGLE
NEUTRA-LIMBIC OR
15 MINUTE GEOD. TOPOG. MAP



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Map scale, contour interval, and other technical details.

Scale 1:250,000
Contour interval 100 feet
Elevation in feet above sea level

Scale 2052

MAP
EIA
NOV 1984
REC-42101
AVERC-41

DIABLO PASS NE QUADRANGLE
AVERC-41

1421 20th ST N LAS VEGAS NV 89104
AVERY COPY CAVE VALLEY RANCH
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Cave Valley Land and Water Ownership

