

Map Unit Description

Weld County, Colorado, Southern Part

PATRIOT 816-694N
T3N - R64W - 6th P.M.
SECTION 9: SW/4 SW/4
WELD COUNTY, CO

1

Altvan loam, 0 to 1 percent slopes

Setting

Elevation: 4500 to 4900 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 130 to 150 days

Composition

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

Description of Altvan

Setting

Landform: Terraces
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Old alluvium

Properties and Qualities

Slope: 0 to 1 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.20 to 2.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 5.7 inches)

Interpretive Groups

Land capability classification (irrigated): 3s
Land capability (non irrigated): 4e
Ecological site: Loamy Plains (R067BY002CO)

Typical Profile

0 to 10 inches: loam
10 to 25 inches: clay loam
25 to 60 inches: gravelly sand

Minor Components

Cascajo

Percent of map unit: 9 percent

Aquic haplustolls

Percent of map unit: 1 percent
Landform: Swales

PATRIOT B16-69 HN
TSN - R64W - 6th P.M.
SECTION 9: 8W4 SW4
WELD COUNTY, CO

Map Unit Description

Weld County, Colorado, Southern Part

3

Aquolls and Aquepts, gravelly substratum

Setting

Elevation: 4000 to 7200 feet
Mean annual precipitation: 12 to 18 inches
Mean annual air temperature: 45 to 55 degrees F
Frost-free period: 80 to 155 days

Composition

Aquolls and similar soils: 55 percent
Aquepts, gravelly substratum, and similar soils: 30 percent
Minor components: 15 percent

Description of Aquolls

Setting

Landform: Swales, streams, flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Recent alluvium

Properties and Qualities

Slope: 0 to 3 percent
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.20 to 2.00 in/hr)
Depth to water table: About 6 to 48 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Calcium carbonate maximum: 0 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 8.0 inches)

Interpretive Groups

Land capability (non irrigated): 6w
Ecological site: Salt Meadow (R067BY035CO)

Typical Profile

0 to 48 inches: loam
48 to 60 inches: gravelly sand

Description of Aquepts, gravelly substratum

Setting

Landform: Stream terraces
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Recent alluvium

Properties and Qualities

Slope: 0 to 3 percent
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or very high (0.57 to 19.98 in/hr)
Depth to water table: About 6 to 24 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Calcium carbonate maximum: 10 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 6.6 inches)

Interpretive Groups

Land capability classification (irrigated): 6w
Land capability (non irrigated): 6w
Ecological site: Salt Meadow (R067BY035CO)

Typical Profile

0 to 48 inches: variable
48 to 60 inches: very gravelly sand

Map Unit Description

Weld County, Colorado, Southern Part

Minor Components

Bankard

Percent of map unit: 10 percent

Ustic torrifluvents

Percent of map unit: 5 percent

PATRIOT BLG-694N
T5N - R64W - 6th P.M.
SECTION 9: SW₄SW₄
WELD COUNTY, CO

Map Unit Description

Weld County, Colorado, Southern Part

52

Otero sandy loam, 3 to 5 percent slopes

Setting

Elevation: 4700 to 5250 feet
Mean annual precipitation: 12 to 15 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 130 to 180 days

Composition

Otero and similar soils: 85 percent
Minor components: 15 percent

Description of Otero

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits and/or mixed outwash

Properties and Qualities

Slope: 3 to 5 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 5.95 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 10 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 7.7 inches)

Interpretive Groups

Land capability classification (irrigated): 3e
Land capability (non irrigated): 4e
Ecological site: Sandy Plains (R067BY024CO)

Typical Profile

0 to 12 inches: sandy loam
12 to 60 inches: fine sandy loam

Minor Components

Kim

Percent of map unit: 12 percent

Vona

Percent of map unit: 3 percent

PATRIOT B16-69HN
T5N - R64W - 6th P.M.
SECTION 9: SW₄ SW₄
WELD COUNTY, CO

Map Unit Description

Weld County, Colorado, Southern Part

68

Ustic Torriorthents, moderately steep

Setting

Elevation: 4450 to 5100 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 120 to 160 days

Composition

Ustic torriorthents and similar soils: 85 percent
Minor components: 15 percent

Description of Ustic torriorthents

Setting

Landform: Escarpments, breaks
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Gravelly alluvium

Properties and Qualities

Slope: 9 to 15 percent
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High or very high (5.95 to 19.98 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Available water capacity: Very low (about 1.8 inches)

Interpretive Groups

Land capability (non irrigated): 7s

Typical Profile

0 to 10 inches: gravelly sand
10 to 60 inches: gravelly sand

Minor Components

Columbo

Percent of map unit: 10 percent

Eckley

Percent of map unit: 3 percent

Otero

Percent of map unit: 2 percent