Betz PC G16-69HN, 609-22D
T4N- R65W, 6th, P.M.
Section 9 (SE/4SE/4)

Map Unit Description

Weld County, Colorado, Southern Part

35 Loup-Boel loamy sands, 0 to 3 percent slopes

Setting

Elevation: 4550 to 4750 feet
Mean annual precipitation: 11 to 15 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 130 to 180 days

Composition

Loup and similar soils: 55 percent
Boel and similar soils: 35 percent
Minor components: 10 percent

Description of Loup

Setting

Landform: Swales, drainageways, streams
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy alluvium

Properties and Qualities

Slope: 0 to 3 percent
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: About 0 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 5.2 inches)

Interpretive Groups

Land capability classification (irrigated): 4w
Land capability (non irrigated): 6w
Ecological site: Sandy Meadow (R067BY029CO)

Typical Profile

0 to 16 inches: loamy sand
16 to 40 inches: loamy sand
40 to 60 inches: sandy loam

Description of Boel

Setting

Landform: Drainageways, streams, swales
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Stratified sandy alluvium

Properties and Qualities

Slope: 0 to 3 percent
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): High or very high (5.95 to 19.98 in/hr)
Depth to water table: About 18 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 4.2 inches)

Interpretive Groups

Land capability classification (irrigated): 4w
Land capability (non irrigated): 6w
Ecological site: Sandy Meadow (R067BY029CO)

Typical Profile

Betz PCG 1669HN, G09-22D
T4N, R65W, 6th P.M.
Section 9 (SE/4 SE/4)

Map Unit Description

Weld County, Colorado, Southern Part

0 to 14 inches: loamy sand
14 to 60 inches: loamy sand

Minor Components

Osgood
Percent of map unit: 5 percent

Valent
Percent of map unit: 5 percent

Detz PC 616-69 HN & 609-CC
T4N-R65W, 6th P.M.
Section 9 (SE1/4SE1/4)

Map Unit Description

Weld County, Colorado, Southern Part

51 Otero sandy loam, 1 to 3 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: 1 to 3 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: 10 percent

Vona

Percent of map unit: 5 percent

Betz PC 616-69HN, 609-22HN
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Section 9 (SE/4SE/4)

Map Unit Description

Weld County, Colorado, Southern Part

77 Vona sandy loam, 3 to 5 percent slopes

Setting

Elevation: 4600 to 5200 feet
Mean annual precipitation: 13 to 15 inches
Mean annual air temperature: 48 to 55 degrees F
Frost-free period: 130 to 160 days

Composition

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

Description of Vona

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits

Properties and Qualities

Slope: 3 to 5 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 6.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 6.8 inches)

Interpretive Groups

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

Typical Profile

0 to 6 inches: sandy loam
6 to 28 inches: fine sandy loam
28 to 60 inches: sandy loam

Minor Components

Remmit
Percent of map unit: 7 percent

Olney
Percent of map unit: 5 percent

Otero
Percent of map unit: 3 percent