

Map Unit Description

Weld County, Colorado, Southern Part

38 Nelson fine sandy loam, 3 to 9 percent slopes

Setting

Elevation: 4800 to 5050 feet
Mean annual precipitation: 13 to 15 inches
Mean annual air temperature: 48 to 57 degrees F
Frost-free period: 145 to 190 days

Composition

Nelson and similar soils: 85 percent
Minor components: 1 percent

Description of Nelson

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Residuum weathered from sandstone

Properties and Qualities

Slope: 3 to 9 percent
Depth to restrictive feature: 20 to 40 inches to Paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or high (0.06 to 2.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 10 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 3.7 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 6e
Ecological site: Sandy Plains (R067BY024CO)

Typical Profile

0 to 9 inches: fine sandy loam
9 to 30 inches: fine sandy loam
30 to 34 inches: weathered bedrock

Minor Components

Aquic haplustolls

Percent of map unit: 1 percent
Landform: Swales

Map Unit Description

Weld County, Colorado, Southern Part

4 Aquolls and Aquepts, flooded

Setting

Elevation: 3600 to 4700 feet
Mean annual precipitation: 12 to 16 inches
Mean annual air temperature: 50 to 55 degrees F
Frost-free period: 100 to 165 days

Composition

Aquolls and similar soils: 55 percent
Aquepts, flooded, and similar soils: 25 percent

Description of Aquolls

Setting

Landform: Drainageways, plains, depressions
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 low or high (0.06 to 6.00 in/hr)
Depth to water table: About 6 to 36 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Calcium carbonate maximum: 10 percent
Gypsum maximum: 0 percent
Salinity maximum: Slightly saline or moderately saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio maximum: 5.0
Available water capacity: Low (about 4.7 inches)

Interpretive Groups

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

Typical Profile

0 to 8 inches: variable
8 to 60 inches: stratified sandy loam to clay

Description of Aquepts, flooded

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 low or high (0.06 to 6.00 in/hr)
Depth to water table: About 6 to 36 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Calcium carbonate maximum: 10 percent
Gypsum maximum: 0 percent
Salinity maximum: Slightly saline or moderately saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio maximum: 5.0
Available water capacity: Low (about 4.7 inches)

Interpretive Groups

Land capability classification (irrigated): 6w
Land capability (non irrigated): 6w
Ecological site: Wet Meadow (R067BY038CO)

Map Unit Description

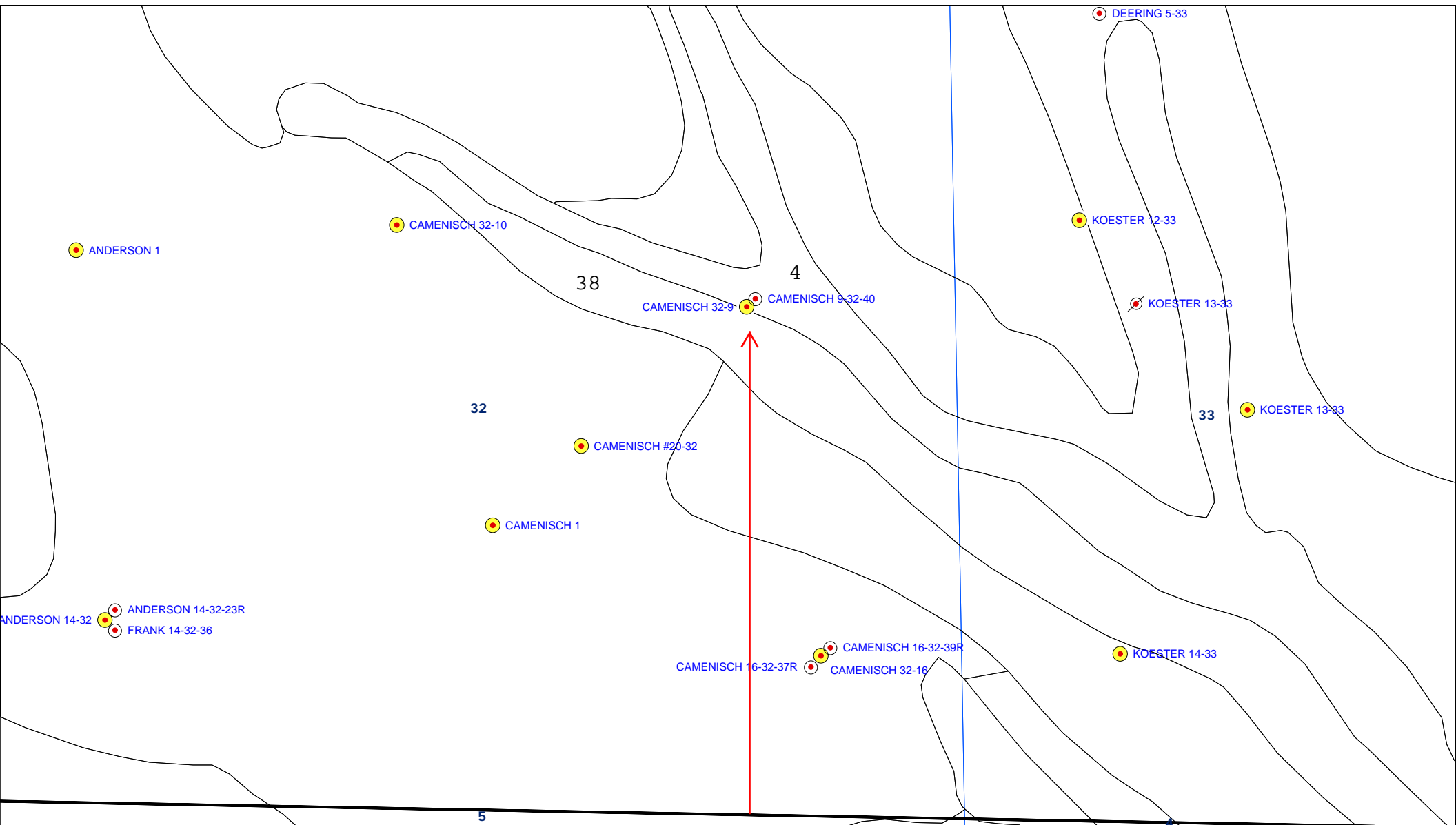
Weld County, Colorado, Southern Part

Typical Profile

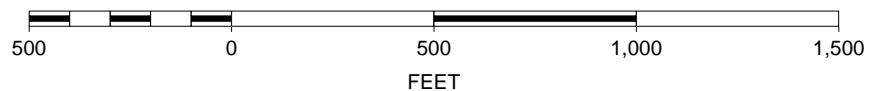
0 to 8 inches: variable

8 to 60 inches: stratified sandy loam to clay

38, Nelson fine sandy loam, 3 to 9% slopes; 4, Aquolls and aquepts, flooded, 0 to 3% slopes



SCALE 1 : 5,700



K. P. Kauffman Company, Inc.

Soils map

Camenisch #32-9 pad

NESE section 32-T4N-R67W

Weld Co., Colorado

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