

(PROD. FACILITY) Dyer USX AB35-67-1HN  
Dyer USX AB35-68-1HN

T7N - R64W - 6th P.M.  
SECTION: 34 NENE  
WELD COUNTY, CO

## Map Unit Description

Weld County, Colorado, Southern Part

### 37 Nelson fine sandy loam, 0 to 3 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: 15 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: 0 to 3 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): 4e  
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

##### Thedalund

Percent of map unit: 10 percent

##### Olney

Percent of map unit: 5 percent

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T7N-R6E4W-642P.M.  
SECTION 34: NENE  
WELD COUNTY, CO

## Map Unit Description

Weld County, Colorado, Southern Part

48

### Olney fine sandy loam, 3 to 5 percent slopes

#### Setting

Elevation: 4600 to 5200 feet  
Mean annual precipitation: 11 to 15 inches  
Mean annual air temperature: 46 to 54 degrees F  
Frost-free period: 125 to 175 days

#### Composition

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

#### Description of Olney

##### Setting

Landform: Plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Mixed deposit 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 2.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 7.0 inches)

##### Interpretive Groups

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

##### Typical Profile

0 to 10 inches: fine sandy loam  
10 to 20 inches: sandy clay loam  
20 to 25 inches: sandy clay loam  
25 to 60 inches: fine sandy loam

#### Minor Components

##### Zigweid

Percent of map unit: 9 percent

##### Vona

Percent of map unit: 6 percent

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## Map Unit Description

Weld County, Colorado, Southern Part

T7N - R64W - 64th P.M.  
SECTION 34: NENE  
WELD COUNTY, CO

### 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