

Booth N 25-31D  
Township 5 North, Range 67 West, 6<sup>th</sup> PM  
Section 25: NW1/4 NW1/4

## Map Unit Description

Weld County, Colorado, Southern Part

### 79 Weld loam, 1 to 3 percent slopes

#### Setting

Elevation: 4850 to 5000 feet  
Mean annual precipitation: 13 to 17 inches  
Mean annual air temperature: 46 to 55 degrees F  
Frost-free period: 100 to 155 days

#### Composition

Weld and similar soils: 80 percent  
Minor components: 20 percent

#### Description of Weld

##### Setting

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

##### Properties and Qualities

Slope: 1 to 3 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 6 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 10.2 inches)

##### Interpretive Groups

Land capability classification (irrigated): 2e  
Land capability (non irrigated): 3e  
Ecological site: Loamy Plains (R067BY002CO)

##### Typical Profile

0 to 8 inches: loam  
8 to 15 inches: clay  
15 to 60 inches: silt loam  
60 to 64 inches: silt loam

#### Minor Components

##### Keith

Percent of map unit: 7 percent

##### Wiley

Percent of map unit: 7 percent

##### Adena

Percent of map unit: 6 percent

Booth N25-31D  
Township 5 North, Range 69 West, 67th PA.  
Section 25: NW 1/4 NW 1/4

## Map Unit Description

Weld County, Colorado, Southern Part

### 18 Colby-Adena loams, 3 to 9 percent slopes

#### Setting

Elevation: 4750 to 4900 feet  
Mean annual precipitation: 12 to 16 inches  
Mean annual air temperature: 48 to 55 degrees F  
Frost-free period: 120 to 160 days

#### Composition

Colby and similar soils: 55 percent  
Adena and similar soils: 30 percent  
Minor components: 15 percent

#### Description of Colby

##### Setting

Landform: Ridges, hills, plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous eolian deposits

##### Properties and Qualities

Slope: 5 to 9 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: High (about 10.6 inches)

##### Interpretive Groups

Land capability (non irrigated): 4e  
Ecological site: Loamy Slopes (R067BY008CO)

##### Typical Profile

0 to 7 inches: loam  
7 to 60 inches: silt loam

#### Description of Adena

##### Setting

Landform: Hills, plains, ridges  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous eolian deposits

##### Properties and Qualities

Slope: 3 to 7 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 10.1 inches)

##### Interpretive Groups

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

##### Typical Profile

0 to 6 inches: loam  
6 to 9 inches: clay loam  
9 to 60 inches: silt loam

## Map Unit Description

Weld County, Colorado, Southern Part

### Minor Components

#### Kim

Percent of map unit: 5 percent

#### Keith

Percent of map unit: 4 percent

#### Wiley

Percent of map unit: 3 percent

#### Weld

Percent of map unit: 3 percent