

Map Unit Description

Weld County, Colorado, Southern Part

28 Heldt silty clay, 3 to 5 percent slopes

Setting

Elevation: 4950 to 5050 feet
Mean annual precipitation: 11 to 17 inches
Mean annual air temperature: 46 to 59 degrees F
Frost-free period: 110 to 150 days

Composition

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

Description of Heldt

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sediment alluvium derived from shale

Properties and Qualities

Slope: 3 to 5 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: 10 percent
Gypsum maximum: 1 percent
Sodium adsorption ratio maximum: 10.0
Available water capacity: High (about 9.6 inches)

Interpretive Groups

Land capability classification (irrigated): 3e
Land capability (non irrigated): 4c
Ecological site: Clayey Plains (R067BY042CO)

Typical Profile

0 to 7 inches: silty clay
7 to 60 inches: silty clay

Minor Components

Nunn

Percent of map unit: 7 percent

Ulm

Percent of map unit: 4 percent

Renohill

Percent of map unit: 4 percent

Rangeland Productivity and Plant Composition

Weld County, Colorado, Southern Part

Map symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		<i>Lb/Ac</i>	<i>Lb/Ac</i>	<i>Lb/Ac</i>		<i>Pct</i>
28:						
Heldt	Clayey Plains	1,000	800	600	Western wheatgrass	25
					Fourwing saltbush	10
					Winterfat	5