

# Map Unit Description

Lincoln County, Colorado

148 Manzanola clay loam, 1 to 5 percent slopes

## Setting

Elevation: 4400 to 6000 feet  
Mean annual precipitation: 11 to 16 inches  
Mean annual air temperature: 46 to 52 degrees F  
Frost-free period: 135 to 155 days

## Composition

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

## Description of Manzanola

### Setting

Landform: Fans, drainageways  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous clayey alluvium

### Properties and Qualities

Slope: 1 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 0.60 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 4 percent  
Salinity maximum: Non saline or slightly saline (2.0 to 8.0 mmhos/cm)  
Sodium adsorption ratio maximum: 5.0  
Available water capacity: High (about 10.0 inches)

### Interpretive Groups

Land capability (non irrigated): 4e  
Ecological site: Alkaline Plains (R069XY047CO)

### Typical Profile

0 to 5 inches: clay loam  
5 to 30 inches: clay loam  
30 to 60 inches: clay loam

## Minor Components

### Apishapa soils

Percent of map unit: 5 percent  
Landform: Depressions  
Ecological site: Plains Swale (R067XY010CO)

### Arvada soils

Percent of map unit: 5 percent  
Landform: Fans, drainageways  
Other vegetative classification: Salt Flat (069AY033CO\_1)

### Fort soils

Percent of map unit: 3 percent  
Landform: Hills  
Other vegetative classification: LOAMY PLAINS (069XY006CO\_1)

### Razor soils

Percent of map unit: 2 percent  
Landform: Hills  
Other vegetative classification: ALKALINE PLAINS (069XY047CO\_1)

# Rangeland Productivity and Plant Composition

Lincoln County, Colorado

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>
148:						
Manzanola	Alkaline Plains	1,500	1,200	500	Alkali sacaton	45
					Galleta	20
					Blue grama	15
					Western wheatgrass	10
					Fourwing saltbush	5

# Map Unit Description

Lincoln County, Colorado

129 Fort loam, 1 to 3 percent slopes

## Setting

Elevation: 4400 to 6000 feet  
Mean annual precipitation: 11 to 16 inches  
Mean annual air temperature: 46 to 52 degrees F  
Frost-free period: 135 to 155 days

## Composition

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

## Description of Fort

### Setting

Landform: Plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Alluvium and/or 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 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  
Sodium adsorption ratio maximum: 15.0  
Available water capacity: High (about 10.5 inches)

### Interpretive Groups

Land capability (non irrigated): 4c  
Ecological site: Loamy Plains (R069XY006CO)

### Typical Profile

0 to 2 inches: loam  
2 to 5 inches: sandy loam  
5 to 34 inches: clay loam  
34 to 60 inches: silty clay loam

## Minor Components

### Apishapa soils

Percent of map unit: 3 percent  
Landform: Depressions  
Ecological site: Plains Swale (R067XY010CO)

### Wilid soils

Percent of map unit: 3 percent  
Landform: Plains  
Ecological site: loamy plains (R069XY002CO)

### Karval soils

Percent of map unit: 3 percent  
Landform: Hills  
Other vegetative classification: GRAVEL BREAKS (067XY063CO\_1)

### Arvada soils

Percent of map unit: 3 percent  
Landform: Fans, drainageways  
Other vegetative classification: Salt Flat (069AY033CO\_1)

### Oterodry soils

Percent of map unit: 3 percent  
Landform: Hills  
Other vegetative classification: Sandy Plains (069XY026CO\_1)

# Map Unit Description

Lincoln County, Colorado

# Rangeland Productivity and Plant Composition

Lincoln County, Colorado

Map symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/Ac	Lb/Ac	Lb/Ac		Pct
129: Fort	Loamy Plains	1,200	800	200	Blue grama	50
					Western wheatgrass	15
					Galleta	10
					Buffalograss	5
					Fourwing saltbush	5
					Green needlegrass	5
					Sand dropseed	5