

## Yuma County, Colorado

### 25—Kuma-Keith silt loams

#### Map Unit Setting

*Elevation:* 3,500 to 5,400 feet

*Mean annual precipitation:* 15 to 18 inches

*Mean annual air temperature:* 48 to 52 degrees F

*Frost-free period:* 140 to 160 days

#### Map Unit Composition

*Kuma and similar soils:* 55 percent

*Keith and similar soils:* 30 percent

*Minor components:* 15 percent

#### Description of Kuma

##### Setting

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loess

##### Typical profile

*H1 - 0 to 10 inches:* neutral, silt loam

*H2 - 10 to 30 inches:* slightly alkaline, silty clay loam

*H3 - 30 to 60 inches:* strongly alkaline, silt loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately high to high (0.57 to 5.95 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 10 percent

*Gypsum, maximum in profile:* 2 percent

*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Available water storage in profile:* High (about 11.1 inches)

##### Interpretive groups

*Farmland classification:* Prime farmland if irrigated

*Land capability classification (irrigated):* 2e

*Land capability classification (nonirrigated):* 2c

*Hydrologic Soil Group:* B

*Ecological site:* Loamy Plains (R072XY001CO)

#### Description of Keith

##### Setting

*Landform:* Plains

*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Loess

**Typical profile**

*H1 - 0 to 4 inches:* neutral, silt loam  
*H2 - 4 to 15 inches:* neutral, silty clay loam  
*H3 - 15 to 60 inches:* moderately alkaline, silt loam

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.20 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 15 percent  
*Available water storage in profile:* High (about 10.8 inches)

**Interpretive groups**

*Farmland classification:* Prime farmland if irrigated  
*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 2e  
*Hydrologic Soil Group:* B  
*Ecological site:* Loamy Plains (R072XY001CO)

**Minor Components**

**Colby**

*Percent of map unit:* 10 percent

**Other soils**

*Percent of map unit:* 3 percent

**Aquic haplustolls**

*Percent of map unit:* 2 percent  
*Landform:* Depressions

**Data Source Information**

Soil Survey Area: Yuma County, Colorado  
Survey Area Data: Version 14, Dec 23, 2013