

Map Unit Description

Kiowa County, Colorado

21 Kim-Harvey-Stoneham loams, 1 to 3 percent slopes

Setting

Elevation: 3800 to 6500 feet
Mean annual precipitation: 12 to 16 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 130 to 170 days

Composition

Kim and similar soils: 40 percent
Harvey and similar soils: 25 percent
Stoneham and similar soils: 25 percent
Minor components: 10 percent

Description of Kim

Setting

Landform: Plains
Landform position (two-dimensional): Backslope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy alluvium

Properties and Qualities

Slope: 1 to 3 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.60 to 2.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 20 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 9.6 inches)

Interpretive Groups

Land capability classification (irrigated): 2e
Land capability (non irrigated): 6e
Ecological site: Loamy Plains (R067BY002CO)
Other vegetative classification: LOAMY PLAINS (067XY002CO_1)

Typical Profile

0 to 4 inches: loam
4 to 11 inches: loam
11 to 60 inches: sandy clay loam

Description of Harvey

Setting

Landform: Plains
Landform position (two-dimensional): Backslope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy eolian deposits and/or calcareous loamy alluvium

Properties and Qualities

Slope: 1 to 3 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.60 to 2.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 30 percent
Gypsum maximum: 0 percent
Sodium adsorption ratio maximum: 5.0
Available water capacity: Moderate (about 8.8 inches)

Interpretive Groups

Land capability classification (irrigated): 3e
Land capability (non irrigated): 6c

Map Unit Description

Kiowa County, Colorado

Ecological site: Loamy Plains (R067BY002CO)
Other vegetative classification: LOAMY PLAINS (067XY002CO_1)

Typical Profile

0 to 5 inches: loam
5 to 50 inches: sandy clay loam
50 to 60 inches: gravelly sandy loam

Description of Stoneham

Setting

Landform: Plains
Landform position (two-dimensional): Backslope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy eolian deposits and/or alluvium

Properties and Qualities

Slope: 1 to 2 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.60 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 9.6 inches)

Interpretive Groups

Land capability classification (irrigated): 2e
Land capability (non irrigated): 4e
Ecological site: Loamy Plains (R067BY002CO)
Other vegetative classification: LOAMY PLAINS (067XY002CO_1)

Typical Profile

0 to 4 inches: loam
4 to 8 inches: clay loam
8 to 60 inches: clay loam
60 to 64 inches: gravelly sandy loam

Minor Components

Other soils

Percent of map unit: 10 percent