

Eastern Stanislaus Area, California

SaA—San Joaquin sandy loam, 0 to 3 percent slopes, MLRA 17

Map Unit Setting

National map unit symbol: 2vncw

Elevation: 90 to 520 feet

Mean annual precipitation: 9 to 17 inches

Mean annual air temperature: 62 to 64 degrees F

Frost-free period: 240 to 300 days

Farmland classification: Not prime farmland

Map Unit Composition

San joaquin and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of San Joaquin

Setting

Landform: Fan remnants, terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Interfluve, tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium derived from granite

Typical profile

Ap - 0 to 9 inches: sandy loam

Bt1 - 9 to 15 inches: sandy clay loam

2Bt2 - 15 to 21 inches: clay

2Bkqm - 21 to 37 inches: cemented material

2C - 37 to 79 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches; 19 to 25 inches to duripan

Drainage class: Moderately well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

Depth to water table: About 8 to 12 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): 4s

Land capability classification (nonirrigated): 4s

Hydrologic Soil Group: D

Ecological site: R017XY902CA - Duripan Vernal Pools

Hydric soil rating: No

Minor Components

Snelling

Percent of map unit: 5 percent

Landform: Fan remnants, terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Interfluve, tread

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: No

Alamo

Percent of map unit: 4 percent

Landform: Fan remnants, terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Interfluve, tread

Microfeatures of landform position: Open depressions, open depressions

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R017XY902CA - Duripan Vernal Pools

Hydric soil rating: No

Unnamed, hydric

Percent of map unit: 1 percent

Landform: Open depressions on fan remnants, terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Interfluve, tread

Microfeatures of landform position: Open depressions

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Eastern Stanislaus Area, California

Survey Area Data: Version 18, Sep 8, 2024