

Natural Resources Conservation

Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Box Butte County, Nebraska



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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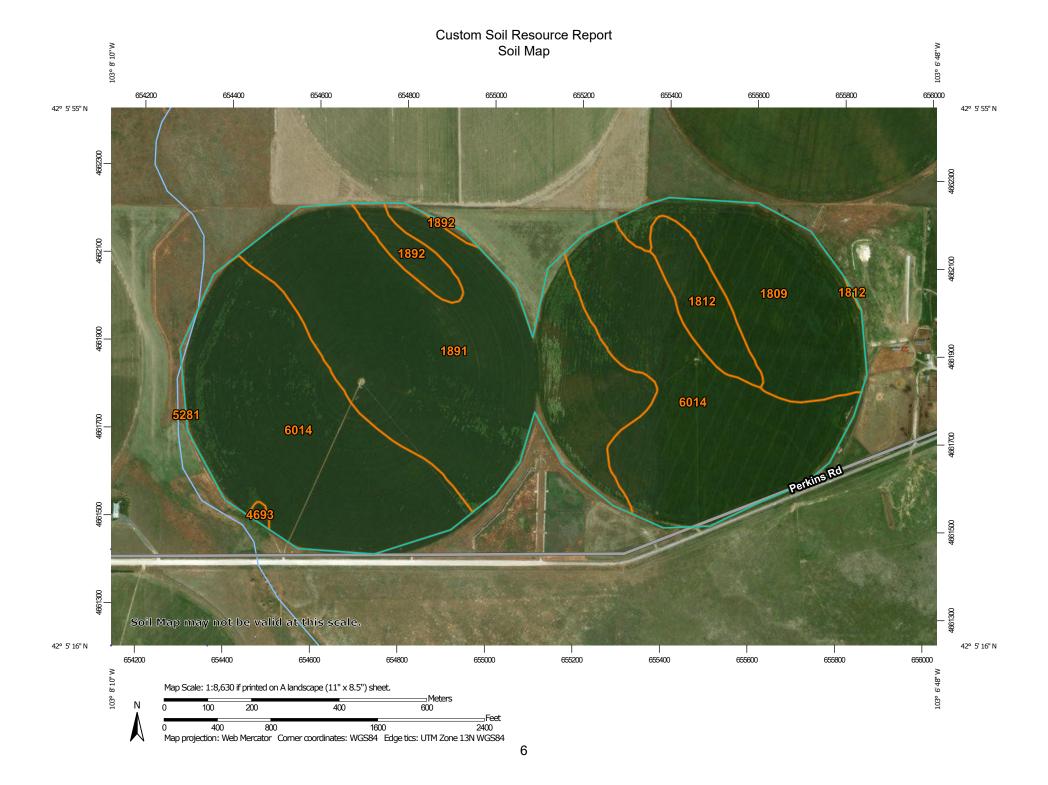
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Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

(o)

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Sodic Spot

Slide or Slip

å

Spoil Area Stony Spot

Very Stony Spot

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Wet Spot Other

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Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

00

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Box Butte County, Nebraska Survey Area Data: Version 20, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Sep 12, 2015—Oct 12. 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1809	Satanta fine sandy loam, 1 to 3 percent slopes	31.9	13.3%
1812	Satanta fine sandy loam, 3 to 6 percent slopes	9.9	4.1%
1891	Valent loamy fine sand, 0 to 3 percent slopes	83.1	34.8%
1892	Valent loamy fine sand, 3 to 9 percent slopes	5.1	2.1%
4693	Marlake very fine sandy loam, frequently ponded	0.4	0.2%
5281	Vetal fine sandy loam, 0 to 3 percent slopes	0.0	0.0%
6014	Sarben-Busher loamy very fine sands, 0 to 3 percent slopes	108.4	45.4%
Totals for Area of Interest		238.8	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit

descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Box Butte County, Nebraska

1809—Satanta fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2wgfb Elevation: 1,970 to 3,940 feet

Mean annual precipitation: 15 to 18 inches Mean annual air temperature: 46 to 50 degrees F

Frost-free period: 120 to 150 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Satanta and similar soils: 80 percent Minor components: 20 percent

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

Description of Satanta

Setting

Landform: Sand sheets
Down-slope shape: Linear
Across-slope shape: Linear

Parent material: Loamy eolian deposits

Typical profile

Ap - 0 to 13 inches: fine sandy loam

Bt - 13 to 46 inches: loam

C - 46 to 79 inches: very fine sandy loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

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

high (0.60 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

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: High (about 9.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: Sandy 14-17 PZ (R064XY011NE) Forage suitability group: Not suited (G064XY000NE)

Hydric soil rating: No

Minor Components

Busher

Percent of map unit: 10 percent

Landform: Plains

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: Sandy 14-17 PZ (R064XY011NE)

Hydric soil rating: No

Jayem

Percent of map unit: 8 percent

Landform: Plains

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Base slope

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: Sandy 14-17 PZ (R064XY011NE)

Hydric soil rating: No

Lodgepole, frequently ponded

Percent of map unit: 2 percent

Landform: Playas

Landform position (two-dimensional): Footslope, toeslope

Landform position (three-dimensional): Dip

Down-slope shape: Concave Across-slope shape: Concave

Ecological site: Clayey Overflow (R064XY027NE)

Hydric soil rating: Yes

1812—Satanta fine sandy loam, 3 to 6 percent slopes

Map Unit Setting

National map unit symbol: 2wgfm Elevation: 1,970 to 3,940 feet

Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 46 to 50 degrees F

Frost-free period: 120 to 150 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Satanta and similar soils: 80 percent Minor components: 20 percent

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

Description of Satanta

Setting

Landform: Sand sheets
Down-slope shape: Linear
Across-slope shape: Linear

Parent material: Loamy eolian deposits

Typical profile

Ap - 0 to 13 inches: fine sandy loam

Bt - 13 to 46 inches: loam

C - 46 to 79 inches: very fine sandy loam

Properties and qualities

Slope: 3 to 6 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

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

high (0.60 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

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: High (about 9.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: Sandy 14-17 PZ (R064XY011NE) Forage suitability group: Not suited (G064XY000NE)

Hydric soil rating: No

Minor Components

Busher

Percent of map unit: 10 percent

Landform: Plains

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: Sandy 14-17 PZ (R064XY011NE)

Hydric soil rating: No

Jayem

Percent of map unit: 8 percent

Landform: Plains

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Base slope

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: Sandy 14-17 PZ (R064XY011NE)

Hydric soil rating: No

Lodgepole, frequently ponded

Percent of map unit: 2 percent

Landform: Playas

Landform position (two-dimensional): Footslope, toeslope

Landform position (three-dimensional): Dip

Down-slope shape: Concave Across-slope shape: Concave

Ecological site: Clayey Overflow (R064XY027NE)

Hydric soil rating: Yes

1891—Valent loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tzzr Elevation: 3,200 to 5,000 feet

Mean annual precipitation: 15 to 17 inches Mean annual air temperature: 46 to 52 degrees F

Frost-free period: 130 to 160 days

Farmland classification: Not prime farmland

Map Unit Composition

Valent and similar soils: 90 percent Minor components: 10 percent

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

Description of Valent

Setting

Landform: Plains

Landform position (two-dimensional): Shoulder, summit

Landform position (three-dimensional): Crest, head slope, side slope, nose slope

Down-slope shape: Convex, linear Across-slope shape: Convex, linear Parent material: Folian sands

Typical profile

A - 0 to 7 inches: loamy fine sand C - 7 to 79 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00

to 20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Low (about 4.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: A

Ecological site: Sands (R064XY012NE)

Forage suitability group: Sand (G064XY300NE)

Hydric soil rating: No

Minor Components

Dailey

Percent of map unit: 5 percent

Landform: Dunes

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope, base slope

Down-slope shape: Linear

Across-slope shape: Linear, convex

Ecological site: Sandy 14-17 PZ (R064XY011NE)

Hydric soil rating: No

Jayem

Percent of map unit: 3 percent

Landform: Plains

Landform position (two-dimensional): Backslope, footslope Landform position (three-dimensional): Side slope, base slope

Down-slope shape: Linear, concave

Across-slope shape: Linear

Ecological site: Sandy 14-17 PZ (R064XY011NE)

Hydric soil rating: No

Ipage

Percent of map unit: 2 percent

Landform: Interdunes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Concave Across-slope shape: Linear

Ecological site: Sandy Lowland (R064XY029NE)

Hydric soil rating: No

1892—Valent loamy fine sand, 3 to 9 percent slopes

Map Unit Setting

National map unit symbol: 2tzzs Elevation: 3,200 to 5,000 feet

Mean annual precipitation: 15 to 17 inches

Mean annual air temperature: 46 to 52 degrees F

Frost-free period: 130 to 160 days

Farmland classification: Not prime farmland

Map Unit Composition

Valent and similar soils: 90 percent Minor components: 10 percent

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

Description of Valent

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, summit

Landform position (three-dimensional): Crest, head slope, side slope, nose slope

Down-slope shape: Convex, linear Across-slope shape: Convex, linear Parent material: Eolian sands

Typical profile

A - 0 to 7 inches: loamy fine sand C - 7 to 79 inches: fine sand

Properties and qualities

Slope: 3 to 9 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00

to 20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Low (about 4.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: A

Ecological site: Sands (R064XY012NE)

Forage suitability group: Sand (G064XY300NE)

Hydric soil rating: No

Minor Components

Dailey

Percent of map unit: 5 percent

Landform: Dunes

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope, base slope

Down-slope shape: Linear

Across-slope shape: Linear, convex

Ecological site: Sandy 14-17 PZ (R064XY011NE)

Hydric soil rating: No

Jayem

Percent of map unit: 3 percent

Landform: Interdunes

Landform position (two-dimensional): Backslope, footslope Landform position (three-dimensional): Side slope, base slope

Down-slope shape: Linear, concave

Across-slope shape: Linear

Ecological site: Sandy 14-17 PZ (R064XY011NE)

Hydric soil rating: No

Ipage

Percent of map unit: 2 percent

Landform: Interdunes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Concave Across-slope shape: Linear

Ecological site: Sandy Lowland (R064XY029NE)

Hydric soil rating: No

4693—Marlake very fine sandy loam, frequently ponded

Map Unit Setting

National map unit symbol: d0b9 Elevation: 3.850 to 4.600 feet

Mean annual precipitation: 16 to 18 inches
Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 120 to 140 days

Farmland classification: Not prime farmland

Map Unit Composition

Marlake, frequently ponded, and similar soils: 100 percent

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

Description of Marlake, Frequently Ponded

Setting

Landform: Depressions on interdunes

Down-slope shape: Concave

Across-slope shape: Concave, linear

Parent material: Sandy eolian deposits over alluvium

Typical profile

A - 0 to 13 inches: very fine sandy loam

AC - 13 to 20 inches: fine sand C - 20 to 60 inches: loamy fine sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: About 0 to 12 inches

Frequency of flooding: None Frequency of ponding: Frequent

Calcium carbonate, maximum in profile: 5 percent Available water storage in profile: Low (about 5.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8w

Hydrologic Soil Group: A/D

Forage suitability group: Not suited (G064XY000NE)

Hydric soil rating: Yes

5281—Vetal fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tzzm Elevation: 3,200 to 5,000 feet

Mean annual precipitation: 15 to 17 inches
Mean annual air temperature: 46 to 52 degrees F

Frost-free period: 130 to 160 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Vetal and similar soils: 90 percent Minor components: 10 percent

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

Description of Vetal

Setting

Landform: Fans, valleys

Landform position (two-dimensional): Footslope Down-slope shape: Convex, concave, linear

Across-slope shape: Linear

Parent material: Local sandy and loamy alluvium derived from sandstone

Typical profile

A - 0 to 30 inches: very fine sandy loam
Bw - 30 to 45 inches: very fine sandy loam
C - 45 to 79 inches: very fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: High (about 9.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: A

Ecological site: Sandy 14-17 PZ (R064XY011NE) Forage suitability group: Loam (G064XY100NE)

Hydric soil rating: No

Minor Components

Jayem

Percent of map unit: 5 percent Landform: Valleys on fans

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Concave, linear

Ecological site: Sandy 14-17 PZ (R064XY011NE)

Hydric soil rating: No

Dailev

Percent of map unit: 5 percent

Landform: Dunes

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: Sandy 14-17 PZ (R064XY011NE)

Hydric soil rating: No

6014—Sarben-Busher loamy very fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: d0bq Elevation: 3,850 to 4,600 feet

Mean annual precipitation: 16 to 18 inches
Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 120 to 140 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Sarben and similar soils: 60 percent

Busher and similar soils: 40 percent

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

Description of Sarben

Setting

Landform: Interfluves
Down-slope shape: Linear
Across-slope shape: Linear

Parent material: Sandy and loamy eolian deposits

Typical profile

Ap - 0 to 6 inches: loamy very fine sand AC - 6 to 15 inches: loamy very fine sand C1 - 15 to 25 inches: loamy very fine sand C2 - 25 to 60 inches: loamy very fine sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

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

Available water storage in profile: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: A

Ecological site: Sandy 14-17 PZ (R064XY011NE) Forage suitability group: Not suited (G064XY000NE)

Hydric soil rating: No

Description of Busher

Setting

Landform: Interfluves
Down-slope shape: Linear
Across-slope shape: Linear

Parent material: Residuum weathered from sandstone

Typical profile

A - 0 to 3 inches: loamy very fine sand Bw - 3 to 40 inches: loamy very fine sand Cr - 40 to 60 inches: weathered bedrock

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 40 to 60 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Very low

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

high (1.42 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Available water storage in profile: Moderate (about 6.5 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: A

Ecological site: Sandy 14-17 PZ (R064XY011NE)
Forage suitability group: Not suited (G064XY000NE)

Hydric soil rating: No