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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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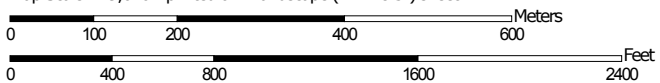
Soil Map

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.

Custom Soil Resource Report Soil Map (Box Butte County Pivots)




Map Scale: 1:9,040 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84


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






-  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
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  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 18, Oct 4, 2017

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 (Box Butte County Pivots)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1547	Dailey loamy sand, 0 to 3 percent slopes	195.7	66.3%
1548	Dailey loamy sand, 3 to 9 percent slopes	22.3	7.6%
1812	Satanta fine sandy loam, 3 to 6 percent slopes	14.5	4.9%
4819	Valentine loamy fine sand, 3 to 9 percent slopes, dry	23.9	8.1%
5965	Jayem fine sandy loam, 0 to 3 percent slopes	15.5	5.2%
5970	Jayem loamy fine sand, 0 to 3 percent slopes	23.2	7.9%
Totals for Area of Interest		295.1	100.0%

Map Unit Descriptions (Box Butte County Pivots)

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

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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

1547—Dailey loamy sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: d09d
Elevation: 3,850 to 4,600 feet
Mean annual precipitation: 16 to 28 inches
Mean annual air temperature: 46 to 55 degrees F
Frost-free period: 120 to 170 days
Farmland classification: Not prime farmland

Map Unit Composition

Dailey and similar soils: 99 percent
Minor components: 1 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dailey

Setting

Landform: Hummocks
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Eolian sands

Typical profile

A - 0 to 15 inches: loamy sand
C - 15 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 2 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): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: A
Ecological site: Sandy 14-17 P.Z. (R064XY011NE)
Other vegetative classification: Not suited (G064XY000NE)
Hydric soil rating: No

Minor Components

Perched wt

Percent of map unit: 1 percent

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Landform: Swales
Down-slope shape: Concave
Across-slope shape: Linear
Other vegetative classification: Not suited (G064XY000NE)
Hydric soil rating: Yes

1548—Dailey loamy sand, 3 to 9 percent slopes

Map Unit Setting

National map unit symbol: d09f
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

Dailey and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dailey

Setting

Landform: Hummocks
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Eolian sands

Typical profile

A - 0 to 15 inches: loamy sand
C - 15 to 60 inches: loamy sand

Properties and qualities

Slope: 3 to 9 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 2 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): 4e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A

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Ecological site: Sandy 14-17 P.Z. (R064XY011NE)
Other vegetative classification: Not suited (G064XY000NE)
Hydric soil rating: No

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

Map Unit Setting

National map unit symbol: d0bt
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: Prime farmland if irrigated

Map Unit Composition

Satanta and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Satanta

Setting

Landform: Knolls
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy eolian deposits

Typical profile

A - 0 to 13 inches: fine sandy loam
Bt - 13 to 46 inches: loam
C - 46 to 60 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
Available water storage in profile: High (about 9.2 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: Loamy 14-17 P.Z. (R064XY015NE)
Other vegetative classification: Not suited (G064XY000NE)
Hydric soil rating: No

4819—Valentine loamy fine sand, 3 to 9 percent slopes, dry

Map Unit Setting

National map unit symbol: 2s804
Elevation: 1,970 to 3,940 feet
Mean annual precipitation: 14 to 17 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 120 to 150 days
Farmland classification: Not prime farmland

Map Unit Composition

Valentine and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Valentine

Setting

Landform: Interdunes
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Eolian sands

Typical profile

A - 0 to 7 inches: loamy fine sand
AC - 7 to 14 inches: loamy fine sand
C - 14 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: Low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline (0.0 to 0.2 mmhos/cm)
Available water storage in profile: Low (about 5.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: Sands Low P.Z. 14-17 P.Z. Provisional (R065XY012NE)
Other vegetative classification: Sand (G065XY300NE), Sands 17-22" P.Z. (065XY033NE_2)
Hydric soil rating: No

Minor Components

Dunday

Percent of map unit: 4 percent
Landform: Interdunes
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: Sandy Low P.Z. 14-17 P.Z. Provisional (R065XY011NE)
Other vegetative classification: Sand (G065XY300NE), Sandy 17-22" P.Z. (065XY032NE_2)
Hydric soil rating: No

Nenzel

Percent of map unit: 3 percent
Landform: Interdunes
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: Sandy Lowland Provisional (R065XY029NE)
Other vegetative classification: Sand (G065XY300NE)
Hydric soil rating: No

Els

Percent of map unit: 2 percent
Landform: Interdunes
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: Subirrigated Provisional (R065XY024NE)
Other vegetative classification: Subirrigated (G065XY700NE)
Hydric soil rating: No

Tryon, frequently ponded

Percent of map unit: 1 percent
Landform: Interdunes
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: Wet Land Provisional (R065XY022NE)
Other vegetative classification: Wet (G065XY900NE)
Hydric soil rating: Yes

5965—Jayem fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tvtr
Elevation: 1,970 to 5,000 feet
Mean annual precipitation: 15 to 19 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 130 to 160 days
Farmland classification: Prime farmland if irrigated

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Map Unit Composition

Jayem and similar soils: 85 percent

Minor components: 15 percent

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

Description of Jayem

Setting

Landform: Plains

Landform position (two-dimensional): Footslope, backslope

Landform position (three-dimensional): Base slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy and loamy eolian deposits derived from sandstone

Typical profile

Ap - 0 to 10 inches: fine sandy loam

Bw - 10 to 22 inches: fine sandy loam

C - 22 to 79 inches: 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)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: A

Ecological site: SANDY (15-17SP) (R067XY250WY), Sandy 14-17 P.Z. (R064XY011NE), Sandy Plains (R072XY111KS)

Other vegetative classification: Droughty Loam (G064XY120NE)

Hydric soil rating: No

Minor Components

Dailey

Percent of map unit: 4 percent

Landform: Plains

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: SANDY (15-17SP) (R067XY250WY), Sandy 14-17 P.Z. (R064XY011NE), Sandy Plains (R072XY111KS)

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Other vegetative classification: Sand (G064XY300NE)
Hydric soil rating: No

Satanta

Percent of map unit: 4 percent
Landform: Plains
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave, linear
Across-slope shape: Linear
Ecological site: Loamy 14-17 P.Z. (R064XY015NE), Loamy (Ly) 12-17"
Precipitation Zone (R067AY122WY), Loamy Tableland (R072XY100KS)
Other vegetative classification: Loam (G064XY100NE)
Hydric soil rating: No

Vetal

Percent of map unit: 3 percent
Landform: Plains, swales
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave, linear
Across-slope shape: Linear, concave
Ecological site: SANDY (15-17SP) (R067XY250WY), Sandy 14-17 P.Z.
(R064XY011NE)
Other vegetative classification: Droughty Loam (G064XY120NE)
Hydric soil rating: No

Busher

Percent of map unit: 3 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 (15-17SP) (R067XY250WY), Sandy 14-17 P.Z.
(R064XY011NE), Sandy Plains (R072XY111KS)
Other vegetative classification: Droughty Loam (G064XY120NE)
Hydric soil rating: No

Lodgepole, frequently ponded

Percent of map unit: 1 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), Closed Upland Depression
(R072XY115KS)
Other vegetative classification: Wet (G064XY900NE)
Hydric soil rating: Yes

5970—Jayem loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2wcbm
Elevation: 1,970 to 5,000 feet
Mean annual precipitation: 15 to 19 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 120 to 150 days
Farmland classification: Not prime farmland

Map Unit Composition

Jayem and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Jayem

Setting

Landform: Plains
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy and loamy eolian deposits derived from sandstone

Typical profile

Ap - 0 to 6 inches: loamy fine sand
A2 - 6 to 11 inches: loamy fine sand
Bw - 11 to 20 inches: fine sandy loam
C - 20 to 79 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: Negligible
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)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 6.7 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 4e

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Hydrologic Soil Group: A

Ecological site: Sandy 17-20 P.Z. (R064XY032NE), Sandy 14-17 P.Z. (R064XY011NE)

Other vegetative classification: Droughty Loam (G064XY120NE)

Hydric soil rating: No

Minor Components

Dailey

Percent of map unit: 4 percent

Landform: Plains

Landform position (two-dimensional): Footslope, summit

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

Down-slope shape: Linear, concave

Across-slope shape: Linear, concave

Ecological site: Sands (R064XY012NE)

Other vegetative classification: Sand (G064XY300NE)

Hydric soil rating: No

Vetal

Percent of map unit: 3 percent

Landform: Plains, swales

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Base slope

Down-slope shape: Linear, concave

Across-slope shape: Linear, concave

Ecological site: Sandy 17-20 P.Z. (R064XY032NE), Sandy 14-17 P.Z. (R064XY011NE)

Other vegetative classification: Droughty Loam (G064XY120NE)

Hydric soil rating: No

Sarben

Percent of map unit: 3 percent

Landform: Plains

Landform position (two-dimensional): Footslope, summit

Landform position (three-dimensional): Base slope

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: Sandy 17-20 P.Z. (R064XY032NE), Sandy 14-17 P.Z. (R064XY011NE)

Other vegetative classification: Sand (G064XY300NE)

Hydric soil rating: No