

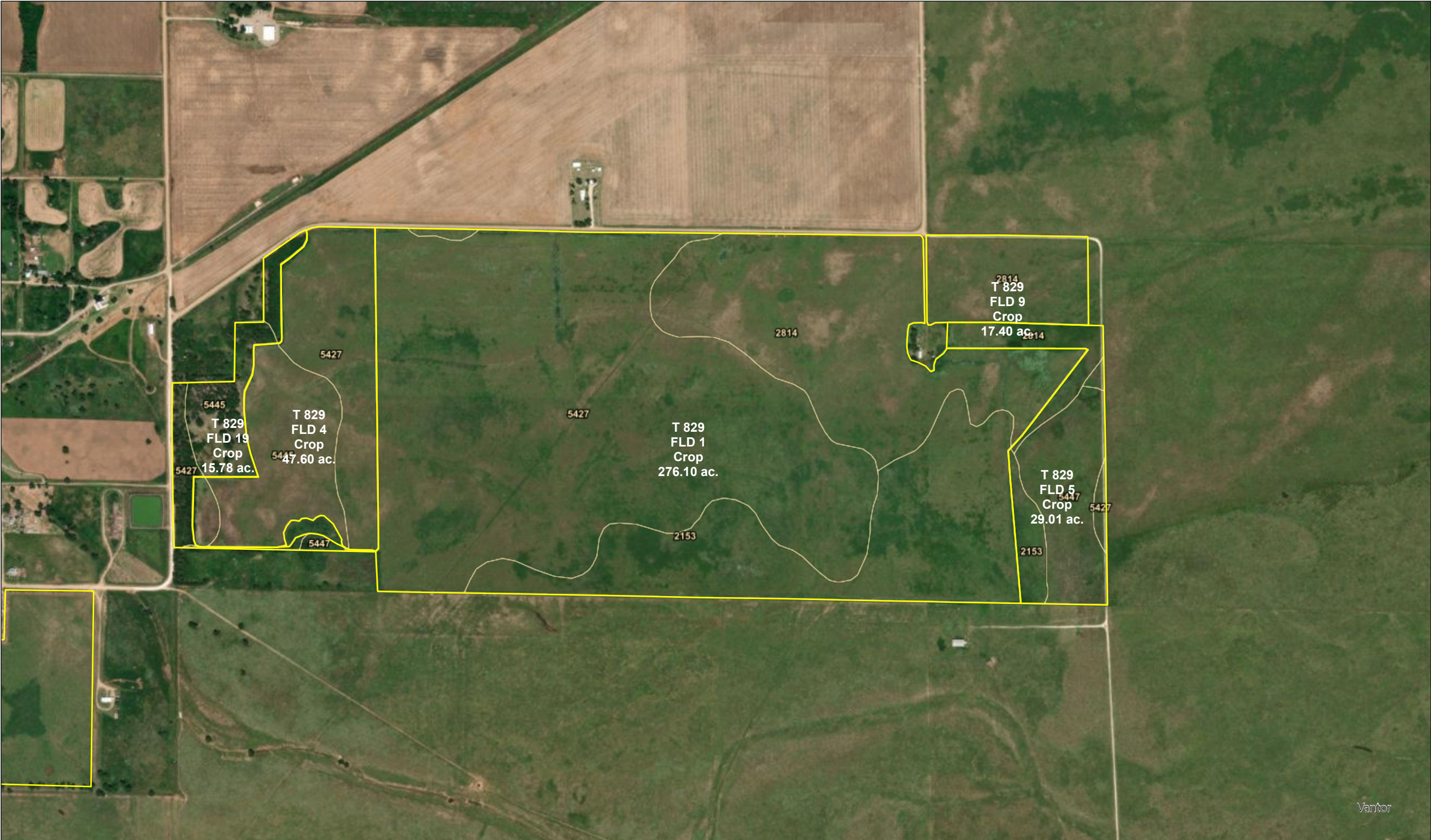
Soils Map

Date: 1/27/2026

Client(s): LELA BORTH TRUST
Clark County, Kansas
Approximate Acres: 563.19

Assisted By: WYATT BOOMHOWER
NRCS
ASHLAND SERVICE CENTER
CLARK COUNTY CD

Land Units: Tract 829, Fields 1,19,4,5,9 Tract 830, Fields 3 Tract 832, Fields 1



Practice Schedule PLUs

Soils

Soil Mapunit



0 752 Feet

Prepared with assistance from USDA-Natural Resources Conservation Service



Map Unit Description (Brief, Generated)

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 in this report, along with the maps, provide information on the composition of map units and properties of their components.

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.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description (Brief, Generated)

Clark County, Kansas

Map Unit: 2153--Lesho clay loam, saline, occasionally flooded

Component: Lesho (99%)

The Lesho component makes up 99 percent of the map unit. Slopes are 0 to 1 percent. This component is on flood plains on river valleys. The parent material consists of alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 36 inches during March, April, May, June. Organic matter content in the surface horizon is about 2 percent. This component is in the R078CY046OK Saline Bottomland ecological site. Nonirrigated land capability classification is 4s. Irrigated land capability classification is 3s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. The soil has a moderately saline horizon within 30 inches of the soil surface.

Component: Aquolls (1%)

Generated brief soil descriptions are created for major soil components. The Aquolls soil is a minor component.

Map Unit: 2814--Uly silt loam, 0 to 1 percent slopes

Component: Uly (99%)

The Uly component makes up 99 percent of the map unit. Slopes are 0 to 1 percent. This component is on plains on tablelands. The parent material consists of loess. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a



depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R073XY100KS Loamy Plains ecological site. Nonirrigated land capability classification is 2c. Irrigated land capability classification is 1. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 5 percent.

Component: Ness (1%)

Generated brief soil descriptions are created for major soil components. The Ness soil is a minor component.

Map Unit: 5427--Kingsdown fine sandy loam, 0 to 2 percent slopes

Component: Kingsdown (99%)

The Kingsdown component makes up 99 percent of the map unit. Slopes are 0 to 2 percent. This component is on sand sheets on paleoterraces on tablelands. The parent material consists of eolian sands. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R077EY064TX Sandy 16-24 PZ ecological site. Nonirrigated land capability classification is 2e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

Component: Ness (1%)

Generated brief soil descriptions are created for major soil components. The Ness soil is a minor component.

Map Unit: 5445--Southside-Fortyone complex, 1 to 5 percent slopes

Component: Southside (60%)

The Southside component makes up 60 percent of the map unit. Slopes are 1 to 5 percent. This component is on dunes on sand sheets on alluvial plains. The parent material consists of sandy alluvium and/or eolian deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R078CY014OK Rolling Sands ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 2 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Fortyone (30%)

The Fortyone component makes up 30 percent of the map unit. Slopes are 1 to 5 percent. This component is on dunes on sand sheets on alluvial plains. The parent material consists of sandy and loamy alluvium and/or eolian deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R078CY110TX Sandy Loam 23-31 PZ ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 2 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Kingsdown (6%)

Generated brief soil descriptions are created for major soil components. The Kingsdown soil is a minor component.

Component: Grandfield (2%)

Generated brief soil descriptions are created for major soil components. The Grandfield soil is a minor component.

Component: Eda (2%)

Generated brief soil descriptions are created for major soil components. The Eda soil is a minor component.



Map Unit: 5447--Eda-Tivoli sands, 1 to 12 percent slopes**Component:** Eda (60%)

The Eda component makes up 60 percent of the map unit. Slopes are 1 to 12 percent. This component is on dunes on sand sheets on terraces on alluvial plains. The parent material consists of eolian sands. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R078CY014OK Rolling Sands ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Tivoli (30%)

The Tivoli component makes up 30 percent of the map unit. Slopes are 1 to 12 percent. This component is on dunes on dune fields on alluvial plains. The parent material consists of eolian sands. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R078CY107TX Sand Hills 23-31 PZ ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Devol (9%)

Generated brief soil descriptions are created for major soil components. The Devol soil is a minor component.

Component: Carwile (1%)

Generated brief soil descriptions are created for major soil components. The Carwile soil is a minor component.

Data Source Information

Soil Survey Area: Clark County, Kansas

Survey Area Data: Version 23, Aug 27, 2025

Soils Inventory Report

Tract	Land Unit	Map Unit Symbol	Map Unit Name	Acres	Percent
829	1	2153	Lesho clay loam, saline, occasionally flooded	54.4	20%
829	1	2814	Uly silt loam, 0 to 1 percent slopes	62.8	23%
829	1	5427	Kingsdown fine sandy loam, 0 to 2 percent slopes	159.0	58%

Total **276.2** **100%**

Tract	Land Unit	Map Unit Symbol	Map Unit Name	Acres	Percent
829	19	5427	Kingsdown fine sandy loam, 0 to 2 percent slopes	6.1	39%
829	19	5445	Southside-Fortyone complex, 1 to 5 percent slopes	9.0	57%
829	19	5447	Eda-Tivoli sands, 1 to 12 percent slopes	0.6	4%

Total **15.7** **100%**

Tract	Land Unit	Map Unit Symbol	Map Unit Name	Acres	Percent
829	4	5427	Kingsdown fine sandy loam, 0 to 2 percent slopes	25.9	54%
829	4	5445	Southside-Fortyone complex, 1 to 5 percent slopes	21.8	46%

Total **47.7** **100%**

Tract	Land Unit	Map Unit Symbol	Map Unit Name	Acres	Percent
829	5	2153	Lesho clay loam, saline, occasionally flooded	4.3	15%
829	5	2814	Uly silt loam, 0 to 1 percent slopes	7.0	24%
829	5	5427	Kingsdown fine sandy loam, 0 to 2 percent slopes	1.4	5%
829	5	5447	Eda-Tivoli sands, 1 to 12 percent slopes	16.2	56%

Total **28.9** **100%**

Tract	Land Unit	Map Unit Symbol	Map Unit Name	Acres	Percent
829	9	2814	Uly silt loam, 0 to 1 percent slopes	17.4	100%

Total **17.4** **100%**

Grand Total **385.9** **100%**