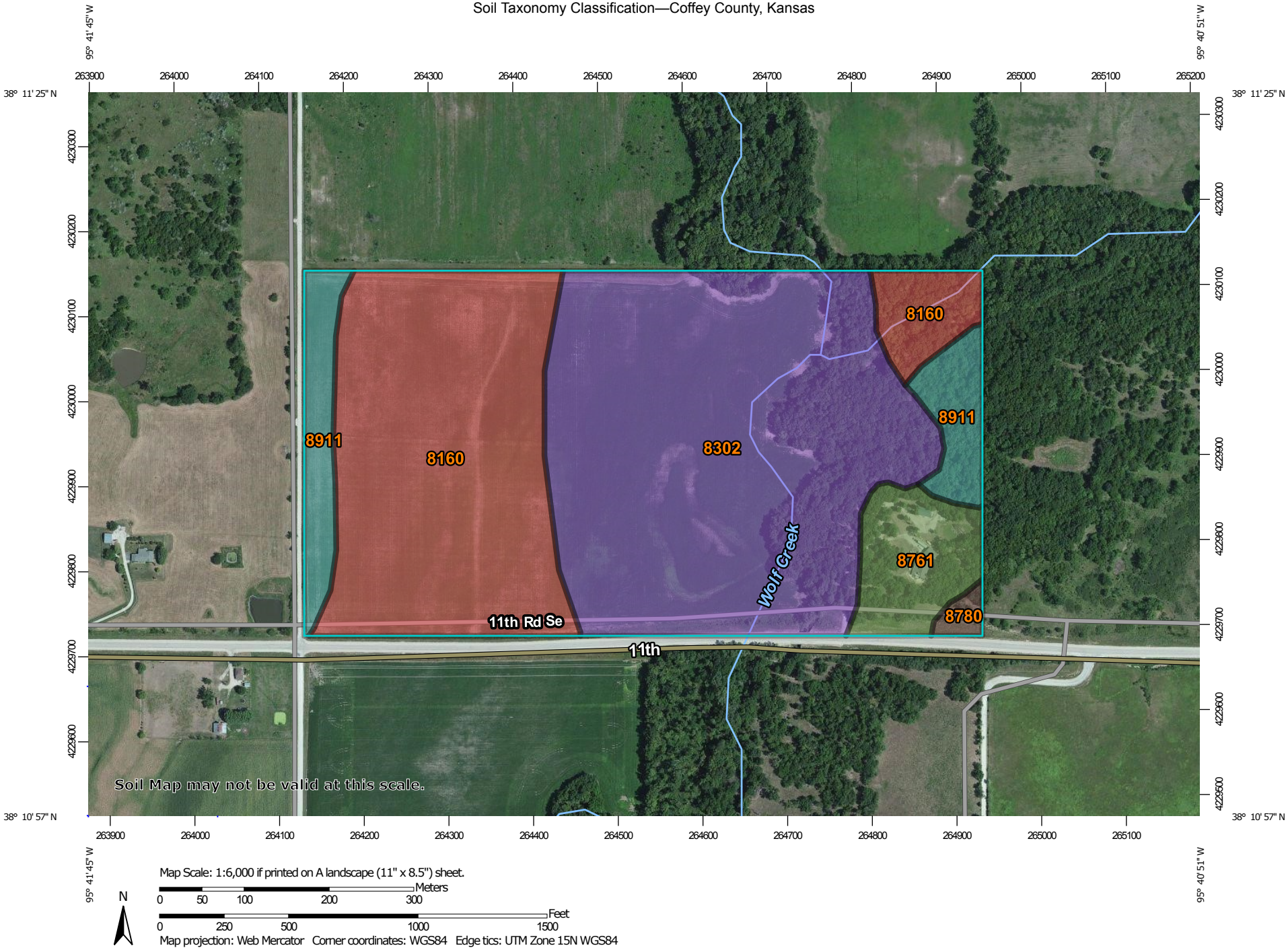
Soil Taxonomy Classification—Coffey County, Kansas



Map Scale: 1:6,000 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 250 500 1000 1500

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- Fine, mixed, active, thermic Aquic Argiudolls
- Fine, mixed, superactive, thermic Typic Argialbolls
- Fine, smectitic, thermic Oxyaquic Vertic Argiudolls
- Fine, smectitic, thermic Vertic Argiudolls
- Fine-silty, mixed, superactive, thermic Cumulic Hapludolls
- Not rated or not available

Soil Rating Lines

- Fine, mixed, active, thermic Aquic Argiudolls
- Fine, mixed, superactive, thermic Typic Argialbolls
- Fine, smectitic, thermic Oxyaquic Vertic Argiudolls
- Fine, smectitic, thermic Vertic Argiudolls
- Fine-silty, mixed, superactive, thermic Cumulic Hapludolls
- Not rated or not available

Soil Rating Points

- Fine, mixed, active, thermic Aquic Argiudolls
- Fine, mixed, superactive, thermic Typic Argialbolls
- Fine, smectitic, thermic Oxyaquic Vertic Argiudolls
- Fine, smectitic, thermic Vertic Argiudolls
- Fine-silty, mixed, superactive, thermic Cumulic Hapludolls
- Not rated or not available

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 1:24,000.

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: Coffey County, Kansas
Survey Area Data: Version 14, Sep 20, 2016

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 3, 2010—Sep 28, 2011

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.

Soil Taxonomy Classification

Soil Taxonomy Classification— Summary by Map Unit — Coffey County, Kansas (KS031)				
Map unit symbol	**Map unit name**	**Rating**	**Acres in AOI**	**Percent of AOI**
8160	Leanna silt loam, 0 to 2 percent slopes, occasionally flooded	Fine, mixed, superactive, thermic Typic Argialbolls	30.7	36.0%
8302	Verdigris silt loam, 0 to 1 percent slopes, occasionally flooded	Fine-silty, mixed, superactive, thermic Cumulic Hapludolls	41.8	49.0%
8761	Eram-Shidler silty clay loams, 4 to 15 percent slopes	Fine, mixed, active, thermic Aquic Argiudolls	5.4	6.4%
8780	Kenoma-Olpe complex, 3 to 7 percent slopes	Fine, smectitic, thermic Vertic Argiudolls	0.6	0.7%
8911	Summit silty clay loam, 1 to 3 percent slopes	Fine, smectitic, thermic Oxyaquic Vertic Argiudolls	6.8	8.0%
Totals for Area of Interest			**85.3**	**100.0%**

Description

This rating presents the taxonomic classification based on Soil Taxonomy.

The system of soil classification used by the National Cooperative Soil Survey has six categories (Soil Survey Staff, 1999 and 2003). Beginning with the broadest, these categories are the order, suborder, great group, subgroup, family, and series. Classification is based on soil properties observed in the field or inferred from those observations or from laboratory measurements. This table shows the classification of the soils in the survey area. The categories are defined in the following paragraphs.

ORDER. Twelve soil orders are recognized. The differences among orders reflect the dominant soil-forming processes and the degree of soil formation. Each order is identified by a word ending in sol. An example is Alfisols.

SUBORDER. Each order is divided into suborders primarily on the basis of properties that influence soil genesis and are important to plant growth or properties that reflect the most important variables within the orders. The last syllable in the name of a suborder indicates the order. An example is Udalfs (Ud, meaning humid, plus alfs, from Alfisols).

GREAT GROUP. Each suborder is divided into great groups on the basis of close similarities in kind, arrangement, and degree of development of pedogenic horizons; soil moisture and temperature regimes; type of saturation; and base status. Each great group is identified by the name of a suborder and by a prefix that indicates a property of the soil. An example is Hapludalfs (Hapl, meaning minimal horizonation, plus udalfs, the suborder of the Alfisols that has a udic moisture regime).

SUBGROUP. Each great group has a typic subgroup. Other subgroups are intergrades or extragrades. The typic subgroup is the central concept of the great group; it is not necessarily the most extensive. Intergrades are transitions to other orders, suborders, or great groups. Extragrades have some properties that are not representative of the great group but do not indicate transitions to any other taxonomic class. Each subgroup is identified by one or more adjectives preceding the name of the great group. The adjective Typic identifies the subgroup that typifies the great group. An example is Typic Hapludalfs.

FAMILY. Families are established within a subgroup on the basis of physical and chemical properties and other characteristics that affect management. Generally, the properties are those of horizons below plow depth where there is much biological activity. Among the properties and characteristics considered are particle-size class, mineralogy class, cation-exchange activity class, soil temperature regime, soil depth, and reaction class. A family name consists of the name of a subgroup preceded by terms that indicate soil properties. An example is fine-loamy, mixed, active, mesic Typic Hapludalfs.

SERIES. The series consists of soils within a family that have horizons similar in color, texture, structure, reaction, consistence, mineral and chemical composition, and arrangement in the profile.

References:

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. (The soils in a given survey area may have been classified according to earlier editions of this publication.)

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Lower