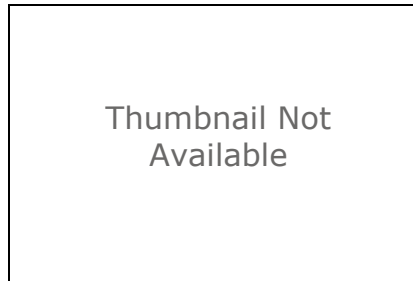


ACPF Field Boundary Dataset: Nebraska

Shapefile



Tags

United States Department of Agriculture (USDA), USDA/ARS, Agricultural Conservation Planning Framework, ACPF, Nebraska, scientificInformation, Farming, boundaries, Field Boundaries, Digitizing, NASS Crop Data Layer, conservation planning

Summary

Improving the quality of water discharged from agricultural watersheds requires comprehensive and adaptive approaches for planning and implementing conservation practices. These measures will need to consider landscape hydrology, distributions of soil types, land cover, and crop distributions in an integrated manner. The two most consistent challenges to these efforts will be consistency and reliability of data, and the capacity to translate conservation planning from watershed to farm and field scales. The translation of scale is required because, while conservation practices can be planned based on a watershed scale framework, they must be implemented by landowners in specific fields and riparian sites that are under private ownership. To support these goals, it has been necessary to develop planning approaches, high-resolution spatial datasets, and conservation practice assessment tools that will allow the agricultural and conservation communities to characterize and mitigate these challenges. The field boundary dataset represents a spatial framework for assembling and maintaining geospatial data to support conservation planning at the scale where conservation practices are implemented.

Description

This field boundaries dataset has been assembled to support field-scale agricultural conservation planning using the USDA/ARS Agricultural Conservation Planning Framework (ACPF). The original data used to create this database are the Farm Service Agency's (FSA) pre-2008 Farm Bill Common Land Unit (CLU) datasets. A portion of metadata found herein pertains to the USDA FSA CLU. The remaining information has been developed to reflect the repurposing of the data in its aggregated form. It is important to note that all USDA programmatic and ownership information that was associated with the original data have been removed and has not been retained or archived by the ARS. Beyond that, these data has been extensively edited to reflect crop-specific land use consistent with land cover as derived from NASS Crop Data Layer datasets and aerial photography, and no longer reflects discrete ownership patterns.

The ACPF field boundaries feature class incorporates two additional resources that form the Nebraska ACPF Land Use database. The Nebraska ACPF Fields Crop History table holds the dominant land use class, derived from the NASS CDL, for individual fields from 2010 to 2020. The Nebraska ACPF Land Use table hold summary land use information for individual fields for 2015 to 2020 including an assigned General Land Use (GenLU) that represent the cropping system over that period. In lieu of a data dictionary for these resources, each dataset has a FGDC-compliant metadata file using the North American ISO 19115-2003 profile in .xml format.

FSA: The common land unit (CLU) dataset consists of digitized farm tract and field boundaries and associated attribute data. The USDA Farm Service Agency (FSA) defines farm fields as agricultural land that is delineated by natural and man-made boundaries such as road ways, tree lines, waterways, fence lines, etc. Field boundaries are visible features that can be identified and delineated on aerial photography and digital imagery. Farm tracts are defined by FSA as sets of contiguous fields under single ownership. Common land units are used to administer USDA farm commodity support and conservation programs in a GIS environment. The CLU data set was prepared by digitizing farm tracts and fields using 1:7920 scale rectified photomaps that have been maintained by FSA in USDA Field Service Centers. Using the photomaps as reference tract and field boundaries were digitized on-screen with digital orthophotography using ESRI's (Environmental Systems Research Institute) ArcView GIS Product. Each of the boundaries of the CLU are digitized to a tolerance of 3 meters (approximately 10 feet) from ground features visible on the digital orthophotograph. The base ortho imagery was produced by mosaicking digital orthophoto quarter quads (DOQs) into a seamless county image. The CLU were digitized from an image base of digital ortho quadrangles mosaicked together creating a seamless image base. The moasaicking process eliminates or minimizes any offset that would normally be present between standard USGS quarter quadrangles. CLU datasets are projected in the UTM coordinate system, NAD 83.

Credits

USDA/ARS National Laboratory for Agriculture and the Environment; USDA Farm Service Agency

Use limitations

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Extent

West -104.285625 **East** -95.277199
North 43.249828 **South** 39.745994

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:500,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE farming, planningCadastre, geoscientificInformation, boundaries

* **CONTENT TYPE** Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS Midwestern United States, Nebraska

TEMPORAL KEYWORDS 2010-2020 Aerial photography, 2010-2020 NASS Crop Data Layer

THEME KEYWORDS USA, United States Department of Agriculture (USDA), geoscientificInformation, farming, boundaries, field boundaries, farming, conservation planning

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE ACPF Field Boundary Dataset: Nebraska

PUBLICATION DATE 2020-04-01 00:00:00

EDITION 1

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

ORGANIZATION'S NAME USDA, Agricultural Research Service, National Laboratory of Agriculture and the Environment

INDIVIDUAL'S NAME David James

CONTACT'S POSITION Geographic Information Specialist

CONTACT'S ROLE originator

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed

SPATIAL REPRESENTATION TYPE vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

CREDITS

USDA/ARS National Laboratory for Agriculture and the Environment; USDA Farm Service Agency

ARCGIS ITEM PROPERTIES

* NAME NE_ACPFFields2020

* SIZE 262.628

* LOCATION file://

\\CURLEW\D\$\ACPFproc\ADCcontributions\exportedForADC\Nebraska\NE_ACPFFields2020.shp

* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION
Nebraska

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
 * WEST LONGITUDE -104.285625
 * EAST LONGITUDE -95.277199
 * NORTH LATITUDE 43.249828
 * SOUTH LATITUDE 39.745994
 * EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE -671149.330800
 * EAST LONGITUDE 58400.769400
 * SOUTH LATITUDE 1886470.812000
 * NORTH LATITUDE 2250605.305100
 * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

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 ORGANIZATION'S NAME USDA, Agricultural Research Service, National Laboratory of Agriculture and the Environment
 CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

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[Hide Resource Constraints ▲](#)

Spatial Reference ►**ARCGIS COORDINATE SYSTEM**

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
- * PROJECTION USA_Contiguous_Albers_Equal_Area_Conic_USGS_version
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

```

WELL-KNOWN IDENTIFIER 102039
X ORIGIN -16901100
Y ORIGIN -6972200
XY SCALE 266467840.99085236
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.001
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 102039
WELL-KNOWN TEXT PROJCS
["USA_Contiguous_Albers_Equal_Area_Conic_USGS_version",GEOGCS
["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID
["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433]],PROJECTION["Albers"],PARAMETER
["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-
96.0],PARAMETER["Standard_Parallel_1",29.5],PARAMETER
["Standard_Parallel_2",45.5],PARAMETER["Latitude_Of_Origin",23.0],UNIT
["Meter",1.0],AUTHORITY["Esri",102039]]

```

REFERENCE SYSTEM IDENTIFIER

- DIMENSION horizontal
- * VALUE 102039
- * CODESPACE Esri
- * VERSION 8.1.2

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ▶

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME NE_ACPFFields2020

* OBJECT TYPE composite

* OBJECT COUNT 491726

Hide Vector ▲

ARCgis FEATURE CLASS PROPERTIES ▶

FEATURE CLASS NAME NE_ACPFFields2020

* FEATURE TYPE Simple

* GEOMETRY TYPE Polygon

* HAS TOPOLOGY FALSE

* FEATURE COUNT 491726

* SPATIAL INDEX TRUE

* LINEAR REFERENCING FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Data Quality ▶**SCOPE OF QUALITY INFORMATION** ▶

RESOURCE LEVEL feature

SCOPE DESCRIPTION

ATTRIBUTES

Yes

Hide Scope of quality information ▲

Hide Data Quality ▲

Distribution ▶**DISTRIBUTOR** ▶**CONTACT INFORMATION**

INDIVIDUAL'S NAME David James

ORGANIZATION'S NAME USDA, Agricultural Research Service, National Laboratory of Agriculture and the Environment

CONTACT'S ROLE distributor

CONTACT INFORMATION ▶**PHONE**

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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

VERSION 10.4.1
 * NAME Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 262.628

ONLINE SOURCE

LOCATION none

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [NE_ACPFFields2020 ►](#)

* TYPE Feature Class
 * ROW COUNT 491726

DEFINITION

File geodatabase feature class of field boundaries for individual HUC12 watersheds

DEFINITION SOURCE

Author

FIELD [FID ►](#)

* ALIAS FID
 * DATA TYPE OID
 * WIDTH 4
 * PRECISION 0
 * SCALE 0
 * FIELD DESCRIPTION
 Internal feature number.

* DESCRIPTION SOURCE
 Esri

* DESCRIPTION OF VALUES
 Sequential unique whole numbers that are automatically generated.

[Hide Field FID ▲](#)

FIELD [isAG ►](#)

* ALIAS isAG
 * DATA TYPE Integer
 * WIDTH 5

* PRECISION 5

* SCALE 0

FIELD DESCRIPTION

Designation of agricultural and non-agricultural land use

DESCRIPTION SOURCE

Author

LIST OF VALUES

VALUE 0

DESCRIPTION non-agricultural land

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Originator

VALUE 1

DESCRIPTION agricultural land, excluding pasture (P) class

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Originator

VALUE 2

DESCRIPTION Pasture|Grass|Hay

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Originator

[Hide Field isAG ▲](#)

FIELD Shape ►

* ALIAS Shape

* DATA TYPE Geometry

* WIDTH 0

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Feature geometry.

DESCRIPTION SOURCE

ESRI

LIST OF VALUES

VALUE Coordinates defining the features.

DESCRIPTION Coordinates

ENUMERATED DOMAIN VALUE DEFINITION SOURCE ESRI

* DESCRIPTION OF VALUES

Coordinates defining the features.

[Hide Field Shape ▲](#)

FIELD Shape_Area ►

* ALIAS Shape_Area

* DATA TYPE Double

* WIDTH 19

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Area of feature in internal units squared.

DESCRIPTION SOURCE

ESRI

DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

Hide Field Shape_Area ▲

FIELD updateYr ►

- * ALIAS updateYr
- * DATA TYPE Integer
- * WIDTH 5
- * PRECISION 5
- * SCALE 0

FIELD DESCRIPTION

The year in which the field boundaries were edited to be crop specific. Fields greater than 40 acres and in row crop production were candidates for editing.

DESCRIPTION SOURCE

Author

Hide Field updateYr ▲

FIELD FBndID ►

- * ALIAS FBndID
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

A unique field identifier constructed by concatenating the HUC12 identification code and a sequential number.

DESCRIPTION SOURCE

Author

DESCRIPTION OF VALUES

A unique field identifier constructed by concatenating the HUC12 identification code and a sequential number.

Hide Field FBndID ▲

FIELD Shape_Leng ►

- * ALIAS Shape_Leng
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 0
- * SCALE 0

Hide Field Shape_Leng ▲

FIELD Acres ▶

- * ALIAS Acres
- * DATA TYPE Single
- * WIDTH 13
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Field size in acres

DESCRIPTION SOURCE

calculated

DESCRIPTION OF VALUES

Calculated values

[Hide Field Acres](#) ▲[Hide Details for object NE_ACPFFields2020](#) ▲[Hide Fields](#) ▲**Metadata Details** ▶

METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME * dataset

* LAST UPDATE 2021-09-12

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA NAP

METADATA STYLE North American Profile of ISO19115 2003

CREATED IN ARCGIS FOR THE ITEM 2021-08-27 14:52:50

LAST MODIFIED IN ARCGIS FOR THE ITEM 2021-09-12 20:13:42

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2021-09-12 20:13:13

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2015-04-13 08:37:18

FROM D:\Data\ACPF\ACPF_Database\ACPF_MetaData\FldBndy_meta\ACPF_FieldBndy_meta

TO \\NLAE08\Data\EDF_ACPF\ACPF_MetaData\FldBndy_meta\ACPF_FieldBndy_meta (1)

[Hide Metadata Details](#) ▲**Metadata Contacts** ▶

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 CONTACT'S ROLE point of contact

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E-MAIL ADDRESS david.james@ars.usda.gov

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

DATE OF NEXT UPDATE 2021-04-01 00:00:00

UPDATE FREQUENCY not planned

[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

ADDITIONAL RESTRICTIONS

None

[Hide Metadata Constraints ▲](#)

Thumbnail and Enclosures ►

ENCLOSURE

ENCLOSURE TYPE File

DESCRIPTION OF ENCLOSURE original metadata

ORIGINAL METADATA DOCUMENT, WHICH WAS TRANSLATED yes

SOURCE METADATA FORMAT fgdc

[Hide Thumbnail and Enclosures ▲](#)

FGDC Metadata (read-only) ▼