ACPF Field Boundary Dataset: Wisconsin

File Geodatabase Feature Class

Thumbnail Not
Available
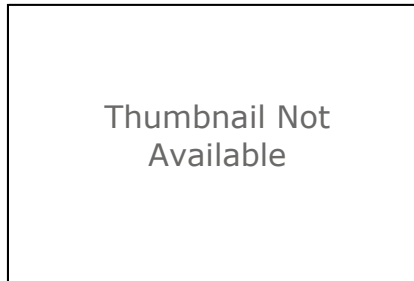
Tags

United States Department of Agriculture (USDA), USDA/ARS, Agricultural Conservation Planning
Framework, ACPF, Wisconsin, 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
substantially 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 additonal resources that form the
Wisconsin ACPF Land Use database. The Wisconsin ACPF Fields Crop History table holds the
dominant land use class, derived from the NASS CDL, for individual fields from 2010 to 2019.
The Wisconsin ACPF Land Use table hold summary land use information for individual fields for
2014 to 2019 including an assigned General Land Use (GenLU) that respesent the cropping
system over thar period.

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 ESRIs (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 mosaiked 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
There is no extent for this item.

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   Wisconsin, WI

TEMPORAL KEYWORDS   2009-2019 Aerial photography, 2009-2019 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: Wisconsin
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   Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.1.1.3143

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

ARCGIS ITEM PROPERTIES
   * NAME   WI_ACPF_Fields2019
   * LOCATION   file://\\ARSIAAMN4-216C\E$\Data\ACPF\ACPF2019\AgDataCmns_contributions\WI_fieldBoundaries.gdb
       * ACCESS PROTOCOL   Local Area Network

Hide Resource Details ▲

Extents ►

EXTENT
   GEOGRAPHIC EXTENT
      GEOGRAPHIC DESCRIPTION
         GEOGRAPHIC IDENTIFIER
            VALUE   Field boundaries for Wisconsin

DESCRIPTION CONTAINS THE RESOURCE   Yes

EXTENT
  DESCRIPTION
    Wisconsin

  EXTENT IN THE ITEM'S COORDINATE SYSTEM
    * WEST LONGITUDE   243697.262500
    * EAST LONGITUDE   702739.616600
    * SOUTH LATITUDE   2180075.866500
    * NORTH LATITUDE   2674097.379600
    * EXTENT CONTAINS THE RESOURCE   Yes

  Hide Extents ▲

Resource Points of Contact ►

POINT OF CONTACT
  INDIVIDUAL'S NAME   David James
  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
  LIMITATIONS OF USE
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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   10000
    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   WI_ACPF_Fields2019
* OBJECT TYPE   composite
* OBJECT COUNT   810038

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES   ▶
FEATURE CLASS NAME   WI_ACPF_Fields2019
* FEATURE TYPE   Simple
* GEOMETRY TYPE   Polygon
* HAS TOPOLOGY   FALSE
* FEATURE COUNT   810038
* 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 ▲

Geoprocessing history ▶

PROCESS
PROCESS NAME
DATE   2020-12-03   12:43:40
TOOL LOCATION   c:\program files (x86)\arcgis\desktop10.7\ArcToolbox\Toolboxes\Data
Management Tools.tbx\Append
COMMAND ISSUED
```
Append WI_fields04 WI_ACPFfields2019 TEST # #
```
INCLUDE IN LINEAGE WHEN EXPORTING METADATA   No

Hide Geoprocessing history ▲

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

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

 Hide Contact information ▲

Hide Distributor ▲

DISTRIBUTION FORMAT
 VERSION   10.4.1
 * NAME   File Geodatabase Feature Class

TRANSFER OPTIONS
 ONLINE SOURCE
  LOCATION   none

Hide Distribution ▲

Fields ▶

DETAILS FOR OBJECT WI_ACPF_Fields2019 ▶
 * TYPE   Feature Class
 * ROW COUNT   810038
 DEFINITION
  File geodatabase feature class of field boundaries for individual HUC12 watersheds

 DEFINITION SOURCE
  Author

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

  DESCRIPTION SOURCE
   ESRI

  LIST OF VALUES
   VALUE   Sequential unique whole numbers that are automatically generated.
   DESCRIPTION   Value
   ENUMERATED DOMAIN VALUE DEFINITION SOURCE   ESRI

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

Hide Field OBJECTID ▲

FIELD isAG ▶
    * ALIAS   isAG
    * DATA TYPE   SmallInteger
    * WIDTH   2
    * PRECISION   0
    * SCALE   0
    FIELD DESCRIPTION
        Designation of agricutlural 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_Length ▶
 * ALIAS Shape_Length
 * DATA TYPE Double
 * WIDTH 8
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
   Length of feature in internal units.

 DESCRIPTION SOURCE
   ESRI

 DESCRIPTION OF VALUES
   Positive real numbers that are automatically generated.

Hide Field Shape_Length ▲

FIELD Shape_Area ▶
 * ALIAS Shape_Area
 * DATA TYPE Double
 * WIDTH 8
 * 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 FBndID ▶
 * ALIAS FBndID
 * DATA TYPE String
 * WIDTH 255
 * 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 Acres ►
* ALIAS   Acres
* DATA TYPE   Single
* WIDTH   4
* 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 WI_ACPF_Fields2019 ▲

Hide Fields ▲

Metadata Details ►

METADATA LANGUAGE   English (UNITED STATES)
METADATA CHARACTER SET   utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER   29A9443A-F609-41BE-AF31-90B52CD41380

SCOPE OF THE DATA DESCRIBED BY THE METADATA   dataset
SCOPE NAME   * dataset

* LAST UPDATE   2020-12-14

ARCGIS METADATA PROPERTIES
METADATA FORMAT   ArcGIS 1.0
METADATA STYLE   North American Profile of ISO19115 2003
STANDARD OR PROFILE USED TO EDIT METADATA   NAP

CREATED IN ARCGIS FOR THE ITEM   2020-12-11   14:11:25
LAST MODIFIED IN ARCGIS FOR THE ITEM   2020-12-14   10:42:59

AUTOMATIC UPDATES
HAVE BEEN PERFORMED   Yes
LAST UPDATE   2020-12-11   15:03:23

Hide Metadata Details ▲

Metadata Contacts ▶

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

Hide Metadata Contacts ▲

Metadata Maintenance ▶

MAINTENANCE
  DATE OF NEXT UPDATE   2021-04-01   00:00:00
  UPDATE FREQUENCY   annually

Hide Metadata Maintenance ▲

Metadata Constraints ▶

SECURITY CONSTRAINTS
  CLASSIFICATION   unclassified
  CLASSIFICATION SYSTEM   None

  ADDITIONAL RESTRICTIONS
    None

Hide Metadata Constraints ▲

FGDC Metadata (read-only) ▼