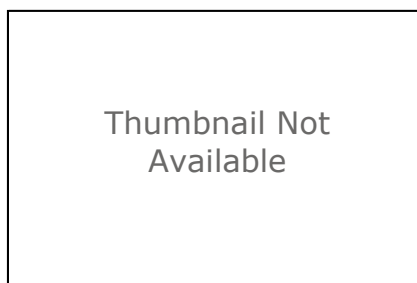


# ACPF Crop History by field: Minnesota

## File Geodatabase Table



### Tags

Digitizing, farming, NASS Crop Data Layer, boundaries, conservation planning, geoscientificInformation, United States Department of Agriculture (USDA), USA, USDA, Field Boundaries, Farming, USDA Aerial photography, Minnesota, USDA/ARS, Agricultural Conservation Planning Framework, ACPF

### Summary

Improving the quality of waters 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 a comprehensive 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.

### Description

This crop history table has been assembled to support field-scale agricultural conservation planning. The original data used to create this database are the NASS Crop Data Layer datasets for individual states. For each year in the period of record, 2010-2019, the dominant (majority) land use and its percentage of the field's area are assigned to each individual field polygon (e.g 'maj19' and 'pct19'). The Crop History (CH) table carries the dominant land use and percentage for each field by year.

### Credits

USDA/ARS National Laboratory for Agriculture and the Environment

### 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 geoscientificInformation, farming

\* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS Minnesota, MN

THEME KEYWORDS Farming, Geoscientific

*Hide Topics and Keywords ▲*

**Citation ►**

TITLE ACPF Crop History by field: Minnesota

PUBLICATION DATE 2018-04-01 00:00:00

EDITION field season 2017

PRESENTATION FORMATS digital table

FGDC GEOSPATIAL PRESENTATION FORMAT tabular 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 on-going

SPATIAL REPRESENTATION TYPE \* text table

PROCESSING ENVIRONMENT Esri ArcGIS 10.7.1

## CREDITS

USDA/ARS National Laboratory for Agriculture and the Environment

## ARCGIS ITEM PROPERTIES

\* NAME MN\_ACPFFields\_CropHistory2010\_2019  
 \* LOCATION file:///\\ARSIAAMN4-216C\E\$\Data\ACPF\ACPF2019  
 \AgDataCmns\_contributions\MN\_fieldBoundaries.gdb  
 \* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

## Extents ►

## EXTENT

## DESCRIPTION

The extent of the spatial data associated with this table is directly attributable to the statethat is located in.

## GEOGRAPHIC EXTENT

## GEOGRAPHIC DESCRIPTION

## GEOGRAPHIC IDENTIFIER

VALUE Minnesota

DESCRIPTION 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 POSITION Geographic Information specialist

CONTACT'S ROLE point of contact

## CONTACT INFORMATION ►

## PHONE

VOICE (515) 294-6858

## ADDRESS

TYPE postal

DELIVERY POINT 1015 N. University Blvd.

CITY Ames

ADMINISTRATIVE AREA Iowa

POSTAL CODE 50011

COUNTRY US

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

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

## Resource Maintenance ►

## RESOURCE MAINTENANCE

DATE OF NEXT UPDATE 2019-04-01 00:00:00

UPDATE FREQUENCY annually

[Hide Resource Maintenance ▲](#)**Resource Constraints ►**

## LEGAL CONSTRAINTS

## LIMITATIONS OF USE

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## CONSTRAINTS

## LIMITATIONS OF USE

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[Hide Resource Constraints ▲](#)**Data Quality ►**

## SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL attribute

## SCOPE DESCRIPTION

## ATTRIBUTES

There are many...

[Hide Scope of quality information ▲](#)[Hide Data Quality ▲](#)**Lineage ►**

## LINEAGE STATEMENT

These data are derived from the NASS Cropland Data Layer over a span of years appropriate for its use.

[Hide Lineage ▲](#)**Geoprocessing history ►**

## PROCESS

## PROCESS NAME

DATE 2020-03-03 15:16:48

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.7\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append D:\ACPFproc\ACPF2019\buildFB\_HUC8

```

\ACPF2019_State_Fields.gdb\mn04;D:\ACPFproc\ACPF2019\buildFB_HUC8
\ACPF2019_State_Fields.gdb\mn07;D:\ACPFproc\ACPF2019\buildFB_HUC8
\ACPF2019_State_Fields.gdb\mn09 D:\ACPFproc\ACPF2019\buildFB_HUC8
\ACPF2019_State_Fields.gdb\MN_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 POSITION Geographic Information specialist

CONTACT'S ROLE distributor

#### CONTACT INFORMATION ►

##### PHONE

VOICE (515) 294-6858

##### ADDRESS

TYPE postal

DELIVERY POINT 1015 N. University Blvd.

CITY Ames

ADMINISTRATIVE AREA Iowa

POSTAL CODE 50011

COUNTRY US

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

*Hide Contact information ▲*

*Hide Distributor ▲*

### DISTRIBUTION FORMAT

VERSION 10.7.1

\* NAME File Geodatabase Table

### TRANSFER OPTIONS

#### ONLINE SOURCE

LOCATION <https://acpf4watersheds.org/>

*Hide Distribution ▲*

## Fields ►

### DETAILS FOR OBJECT MN\_ACPFfields\_CropHistory2010\_2019 ►

\* TYPE Table

\* ROW COUNT 673864

#### DEFINITION

File geodatabase table of field level land use for individual HUC12 watersheds

#### DEFINITION SOURCE

Originator

## FIELD OBJECTID ►

- \* ALIAS OBJECTID
- \* 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 OBJECTID ▲*

## 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. This field should be used for joining the land use table (LU6) with the field boundaries feature class.

## DESCRIPTION SOURCE

Originator

## DESCRIPTION OF VALUES

A sequential polygon identifier

*Hide Field FBndID ▲*

## FIELD maj10 ►

- \* ALIAS maj10
- \* DATA TYPE Integer
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

## FIELD DESCRIPTION

The dominant (majority) NASS Crop Data Layer code - 2010

## DESCRIPTION SOURCE

Author

## LIST OF VALUES

VALUE 1-254

DESCRIPTION Value  
 ENUMERATED DOMAIN VALUE DEFINITION SOURCE NASS

[Hide Field maj10 ▲](#)

FIELD **pct10 ▶**

\* ALIAS pct10  
 \* DATA TYPE Integer  
 \* WIDTH 4  
 \* PRECISION 0  
 \* SCALE 0

FIELD DESCRIPTION

The percent of the field assigned as the dominant land use for the year.

DESCRIPTION SOURCE  
 Calculated

RANGE OF VALUES  
 MINIMUM VALUE 0  
 MAXIMUM VALUE 100

[Hide Field pct10 ▲](#)

FIELD **maj11 ▶**

\* ALIAS maj11  
 \* DATA TYPE Integer  
 \* WIDTH 4  
 \* PRECISION 0  
 \* SCALE 0

FIELD DESCRIPTION

The dominant (majority) NASS Crop Data Layer code - 2011

DESCRIPTION SOURCE  
 Author

LIST OF VALUES  
 VALUE 1-254  
 DESCRIPTION Value  
 ENUMERATED DOMAIN VALUE DEFINITION SOURCE NASS

[Hide Field maj11 ▲](#)

FIELD **pct11 ▶**

\* ALIAS pct11  
 \* DATA TYPE Integer  
 \* WIDTH 4  
 \* PRECISION 0  
 \* SCALE 0

FIELD DESCRIPTION

The percent of the field assigned as the dominant land use for the year.

DESCRIPTION SOURCE  
 Calculated

RANGE OF VALUES  
 MINIMUM VALUE 0

MAXIMUM VALUE 100

[Hide Field pct11 ▲](#)

FIELD maj12 ►

\* ALIAS maj12  
 \* DATA TYPE Integer  
 \* WIDTH 4  
 \* PRECISION 0  
 \* SCALE 0

FIELD DESCRIPTION

The dominant (majority) NASS Crop Data Layer code - 2012

DESCRIPTION SOURCE

Author

LIST OF VALUES

VALUE 1-254  
 DESCRIPTION Value  
 ENUMERATED DOMAIN VALUE DEFINITION SOURCE NASS

[Hide Field maj12 ▲](#)

FIELD pct12 ►

\* ALIAS pct12  
 \* DATA TYPE Integer  
 \* WIDTH 4  
 \* PRECISION 0  
 \* SCALE 0

FIELD DESCRIPTION

The percent of the field assigned as the dominant land use for the year.

DESCRIPTION SOURCE

Calculated

RANGE OF VALUES

MINIMUM VALUE 0  
 MAXIMUM VALUE 100

[Hide Field pct12 ▲](#)

FIELD maj13 ►

\* ALIAS maj13  
 \* DATA TYPE Integer  
 \* WIDTH 4  
 \* PRECISION 0  
 \* SCALE 0

FIELD DESCRIPTION

The dominant (majority) NASS Crop Data Layer code - 2013

DESCRIPTION SOURCE

Author

LIST OF VALUES

VALUE 1-254  
 DESCRIPTION Value



## ENUMERATED DOMAIN VALUE DEFINITION SOURCE NASS

[Hide Field maj13 ▲](#)

## FIELD pct13 ►

\* ALIAS pct13  
 \* DATA TYPE Integer  
 \* WIDTH 4  
 \* PRECISION 0  
 \* SCALE 0

## FIELD DESCRIPTION

The percent of the field assigned as the dominant land use for the year.

## DESCRIPTION SOURCE

Calculated

## RANGE OF VALUES

MINIMUM VALUE 0  
 MAXIMUM VALUE 100

[Hide Field pct13 ▲](#)

## FIELD maj14 ►

\* ALIAS maj14  
 \* DATA TYPE Integer  
 \* WIDTH 4  
 \* PRECISION 0  
 \* SCALE 0

## FIELD DESCRIPTION

The dominant (majority) NASS Crop Data Layer code - 2014

## DESCRIPTION SOURCE

Author

## LIST OF VALUES

VALUE 1-254  
 DESCRIPTION Value  
 ENUMERATED DOMAIN VALUE DEFINITION SOURCE NASSs

[Hide Field maj14 ▲](#)

## FIELD pct14 ►

\* ALIAS pct14  
 \* DATA TYPE Integer  
 \* WIDTH 4  
 \* PRECISION 0  
 \* SCALE 0

## FIELD DESCRIPTION

The percent of the field assigned as the dominant land use for the year.

## DESCRIPTION SOURCE

Calculated

## RANGE OF VALUES

MINIMUM VALUE 0  
 MAXIMUM VALUE 100

[Hide Field pct14 ▲](#)

FIELD maj15 ►

\* ALIAS maj15  
 \* DATA TYPE Integer  
 \* WIDTH 4  
 \* PRECISION 0  
 \* SCALE 0

FIELD DESCRIPTION

The dominant (majority) NASS Crop Data Layer code - 2015

DESCRIPTION SOURCE

Author

LIST OF VALUES

VALUE 1-254  
 DESCRIPTION Value  
 ENUMERATED DOMAIN VALUE DEFINITION SOURCE NASS

[Hide Field maj15 ▲](#)

FIELD pct15 ►

\* ALIAS pct15  
 \* DATA TYPE Integer  
 \* WIDTH 4  
 \* PRECISION 0  
 \* SCALE 0

FIELD DESCRIPTION

The percent of the field assigned as the dominant land use for the year.

DESCRIPTION SOURCE

Calculated

RANGE OF VALUES

MINIMUM VALUE 0  
 MAXIMUM VALUE 100

[Hide Field pct15 ▲](#)

FIELD maj16 ►

ALIAS maj16  
 DATA TYPE Integer  
 WIDTH 4  
 \* PRECISION 0  
 \* SCALE 0

FIELD DESCRIPTION

The dominant (majority) NASS Crop Data Layer code - 2016

DESCRIPTION SOURCE

author

LIST OF VALUES

VALUE 1-254  
 DESCRIPTION Value  
 ENUMERATED DOMAIN VALUE DEFINITION SOURCE USDA NASS

[Hide Field maj16 ▲](#)

FIELD **pct16 ▶**

ALIAS **pct16**

DATA TYPE **Integer**

WIDTH **4**

\* PRECISION **0**

\* SCALE **0**

FIELD DESCRIPTION

The percent of the field assigned as the dominant land use for the year.

DESCRIPTION SOURCE

calculated

RANGE OF VALUES

MINIMUM VALUE **1**

MAXIMUM VALUE **100**

[Hide Field pct16 ▲](#)

FIELD **maj17 ▶**

ALIAS **maj17**

DATA TYPE **Integer**

WIDTH **4**

\* PRECISION **0**

\* SCALE **0**

FIELD DESCRIPTION

The dominant (majority) NASS Crop Data Layer code - 2017

DESCRIPTION SOURCE

author

LIST OF VALUES

VALUE **1-254**

DESCRIPTION **Value**

ENUMERATED DOMAIN VALUE DEFINITION SOURCE **USDA NASS**

[Hide Field maj17 ▲](#)

FIELD **pct17 ▶**

ALIAS **pct17**

DATA TYPE **Integer**

WIDTH **4**

\* PRECISION **0**

\* SCALE **0**

FIELD DESCRIPTION

The percent of the field assigned as the dominant land use for the year.

DESCRIPTION SOURCE

calculated

RANGE OF VALUES

MINIMUM VALUE **1**

MAXIMUM VALUE **100**

[Hide Field pct17 ▲](#)

FIELD **maj18** ►

ALIAS maj18

DATA TYPE Integer

WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

The dominant (majority) NASS Crop Data Layer code - 2018

DESCRIPTION SOURCE

author

LIST OF VALUES

VALUE 1-254

DESCRIPTION Value

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NASS CDL

[Hide Field maj18 ▲](#)

FIELD **pct18** ►

ALIAS pct18

DATA TYPE Integer

WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

The percent of the field assigned as the dominant land use for the year.

DESCRIPTION SOURCE

author

RANGE OF VALUES

MINIMUM VALUE 1

MAXIMUM VALUE 100

[Hide Field pct18 ▲](#)

FIELD **maj19** ►

ALIAS maj19

DATA TYPE Integer

WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

The dominant (majority) NASS Crop Data Layer code - 2019

DESCRIPTION SOURCE

author

LIST OF VALUES

VALUE 1-254

DESCRIPTION Value

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NASS CDL

[Hide Field maj19 ▲](#)

FIELD **pct19** ►

ALIAS pct19

DATA TYPE Integer

WIDTH 4

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

The percent of the field assigned as the dominant land use for the year.

DESCRIPTION SOURCE

caclulated

RANGE OF VALUES

MINIMUM VALUE 1

MAXIMUM VALUE 100

[Hide Field pct19 ▲](#)

[Hide Details for object MN\\_ACPFFields\\_CropHistory2010\\_2019 ▲](#)

OVERVIEW DESCRIPTION ►

ENTITY AND ATTRIBUTE OVERVIEW

The land use assigned to the fields in this table are derived from the NASS Crop Data Layer for each year in the period of record. For the majority assignment (e.g. maj12), the field is assigned as per the VALUE field below, which is the original NASS CDL value. The value assigned is the ROTVAL field. ROTVAL (rotation value) is a summary classification used to develop a concatenated rotation string when combined with other years of data. Domain:C-Corn, B-Soybean, E-Sugarbeets, F-Forest, p-Grapes, G-Sorghum, I-Idle, J-Rice, L-Double crops, N-Cotton, P-Pasture, R-Other, T-Water, W-Wheat, U-Developed, X-Barren, clouds, no data, a-Nuts, d-Fruit, g-SmallGrains, m-Legumes, o -OilSeed, q-Orchards, v-Vegetables. A summary for the 2017 database is as follows:

Value,CLASS\_NAME,ROTVAL

1,Corn,C

2,Cotton,N

3,Rice,J

4,Sorghum,G

5,Soybeans,B

6,Sunflower,o

10,Peanuts,a

11,Tobacco,R

12,Sweet Corn,C

13,Pop or Orn Corn,C

14,Mint,R

21,Barley,g

22,Durum Wheat,W

23,Spring Wheat,W

24,Winter Wheat,W

25,Other Small Grains,g

26,Dbl Crop WinWht/Soybeans,L

27,Rye,g

28,Oats,g

29,Millet,g

30,Speltz,g  
 31,Canola,o  
 32,Flaxseed,o  
 33,Safflower,o  
 34,Rape Seed,o  
 35,Mustard,R  
 36,Alfalfa,P  
 37,Other Hay/Non Alfalfa,P  
 38,Camelina,g  
 39,Buckwheat,g  
 41,Sugarbeets,E  
 42,Dry Beans,m  
 43,Potatoes,v  
 44,Other Crops,R  
 45,Sugarcane,R  
 46,Sweet Potatoes,v  
 47,Misc Veggies & Fruits,R  
 48,Watermelons,d  
 49,Onions,v  
 50,Cucumbers,v  
 51,Chick Peas,m  
 52,Lentils,m  
 53,Peas,m  
 54,Tomatoes,v  
 55,Caneberries,d  
 56,Hops,R  
 57,Herbs,R  
 58,Clover/Wildflowers,R  
 59,Sod/Grass Seed,R  
 60,Switchgrass,P  
 61,Fallow/Idle Cropland,I  
 63,Forest,F  
 64,Shrubland,F  
 65,Barren,X  
 66,Cherries,q  
 67,Peaches,q  
 68,Apples,q  
 69,Grapes,p  
 70,Christmas Trees,F  
 71,Other Tree Crops,q  
 72,Citrus,q  
 74,Pecans,a  
 75,Almonds,a  
 76,Walnuts,a  
 77,Pears,q  
 81,Clouds/No Data,X  
 82,Developed,U  
 83,Water,T  
 87,Wetlands,T  
 88,Nonag/Undefined,X  
 92,Aquaculture,T  
 111,Open Water,T  
 112,Perennial Ice/Snow,T  
 121,Developed/Open Space,U  
 122,Developed/Low Intensity,U  
 123,Developed/Med Intensity,U  
 124,Developed/High Intensity,U  
 131,Barren,X

141,Deciduous Forest,F  
 142,Evergreen Forest,F  
 143,Mixed Forest,F  
 152,Shrubland,F  
 176,Grassland/Pasture,P  
 190,Woody Wetlands,T  
 195,Herbaceous Wetlands,T  
 204,Pistachios,a  
 205,Triticale,g  
 206,Carrots,v  
 207,Asparagus,v  
 208,Garlic,v  
 209,Cantaloupes,d  
 210,Prunes,q  
 211,Olives,q  
 212,Oranges,q  
 213,Honeydew Melons,d  
 214,Broccoli,v  
 216,Peppers,v  
 217,Pomegranates,d  
 218,Nectarines,q  
 219,Greens,v  
 220,Plums,q  
 221,Strawberries,d  
 222,Squash,v  
 223,Apricots,q  
 224,Vetch,m  
 225,DbI Crop WinWht/Corn,L  
 226,DbI Crop Oats/Corn,L  
 227,Lettuce,v  
 229,Pumpkins,v  
 230,DbI Crop Lettuce/Durum Wht,L  
 231,DbI Crop Lettuce/Cantaloupe,L  
 232,DbI Crop Lettuce/Cotton,L  
 233,DbI Crop Lettuce/Barley,L  
 234,DbI Crop Durum Wht/Sorghum,L  
 235,DbI Crop Barley/Sorghum,L  
 236,DbI Crop WinWht/Sorghum,L  
 237,DbI Crop Barley/Corn,L  
 238,DbI Crop WinWht/Cotton,L  
 239,DbI Crop Soybeans/Cotton,L  
 240,DbI Crop Soybeans/Oats,L  
 241,DbI Crop Corn/Soybeans,L  
 242,Blueberries,d  
 243,Cabbage,v  
 244,Cauliflower,v  
 245,Celery,v  
 246,Radishes,v  
 247,Turnips,v  
 248,Eggplants,v  
 249,Gourds,v  
 250,Cranberries,d  
 254,DbI Crop Barley/Soybeans,L

[Hide Overview Description](#) ▲

[Hide Fields ▲](#)

## Metadata Details ►

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

METADATA IDENTIFIER 195B75B3-1B32-495C-9C2C-39A24DBEB4EF  
 FUNCTION OF THE RESOURCE download

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

LAST UPDATE 2018-04-01

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 14:53:18  
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2020-12-14 11:51:18

AUTOMATIC UPDATES  
 HAVE BEEN PERFORMED Yes  
 LAST UPDATE 2020-12-11 15:02:03

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

METADATA 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

CONTACT INFORMATION ►  
 PHONE  
 VOICE (515) 294-6858

ADDRESS  
 TYPE postal  
 DELIVERY POINT 1015 N. University Blvd.  
 CITY Ames  
 ADMINISTRATIVE AREA Iowa  
 POSTAL CODE 50011  
 COUNTRY US  
 E-MAIL ADDRESS david.james@ars.usda.gov

[Hide Contact information ▲](#)[Hide Metadata Contacts ▲](#)



## Metadata Maintenance ►

### MAINTENANCE

UPDATE FREQUENCY not planned ►

*Hide Metadata Maintenance ▲*

## Metadata Constraints ►

### SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

### ADDITIONAL RESTRICTIONS

None

*Hide Metadata Constraints ▲*

## FGDC Metadata (read-only) ▼