



# Land Use and Cover Inventory Database (LUCID)

## National Resources Inventory

Natural  
Resources  
Conservation  
Service

[nrcs.usda.gov](https://nrcs.usda.gov)

# What is LUCID?

- LUCID provides direct access to NRI estimates.
  - Tool to construct custom estimates
  - Geographically down to county level
  - Results exportable
- Estimates are focused on user needs.
  - Some are frequent standard requests
  - Most are calculated by the tool
  - All estimates include margin of error

# What is the Primary NRI?

## 33 Years of Status, Condition, & Trends of Natural Resources in the United States

- National sample of 800,000 points on land and water
- 49 States & Caribbean (Puerto Rico and Virgin Islands)
- Data at each point from '82, '87, '92, '97, & '00 – '17
- Alaska from 2007 only
- Details on non-Federal land only, except Alaska
- Nationally consistent definitions and methods



### Land cover and uses include:

- Cropland and crops
- Pasture
- Rangeland
- Forest
- Developed Land

### Factors considered include:

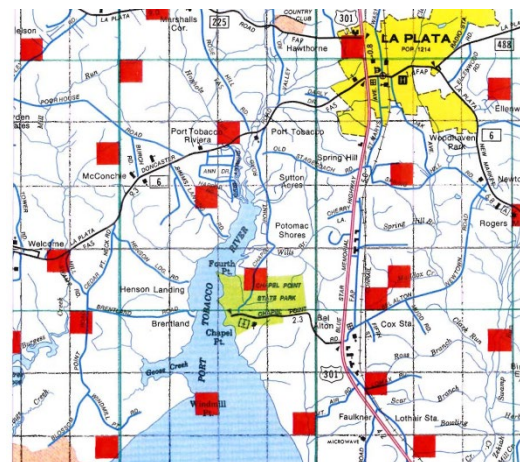
- Soil
- Erosion
- Water and wetlands
- Conservation



# Two-Stage Sample

## 1<sup>st</sup> Stage: Area Segments

- Every County
- Spatially balanced
- Most are 160 acres



## 2<sup>nd</sup> Stage: Points

- Spatially balanced
- 3 in most segments



# Uncertainty

## Every estimate has a margin of error (MoE)

- Estimate based on lots of points = MoE fairly small compared to the estimate
- Estimate based on few points = MoE fairly large compared to the estimate

## Like a random survey of people asking whether they hunt

- By chance you could get more hunters
- By chance you could get fewer hunters

# Estimates Available

- **Broad Land Cover/Use:** For example, cropland (3), pasture, forest, range, developed (2), water (2), federal, other rural
- **Detailed LCU:** For example, specific crops and some detail on other broad cover/uses (51)
- **Crop/Pasture Info:** For example, conservation practices, irrigation, wind and water erosion measures, 2<sup>nd</sup> crop, General Conservation Reserve Program (CRP)

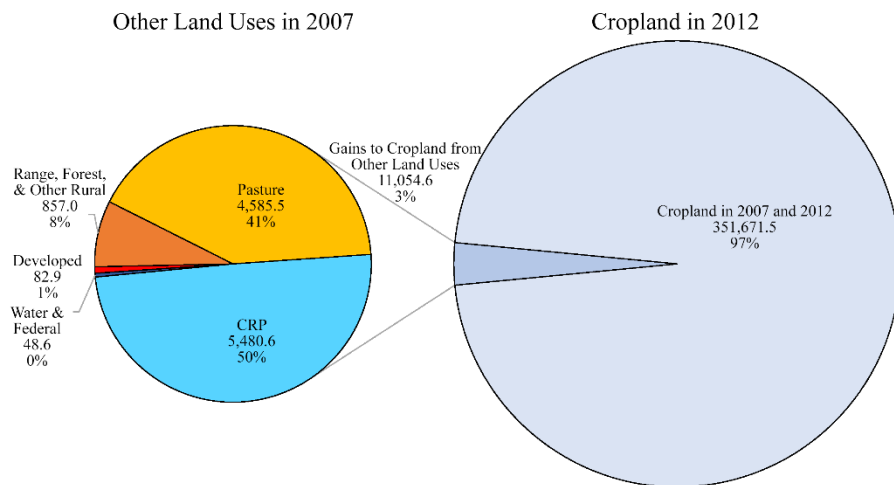
# Estimates Available (Continued)

- **Soil Info:** For example, name, texture, land capability class
- **Wetland:** For example, wetland type, cause of change
- **Other Land Data:** For example, prime farmland, resource concerns
- **Other Data:** For example, Forest Group Type

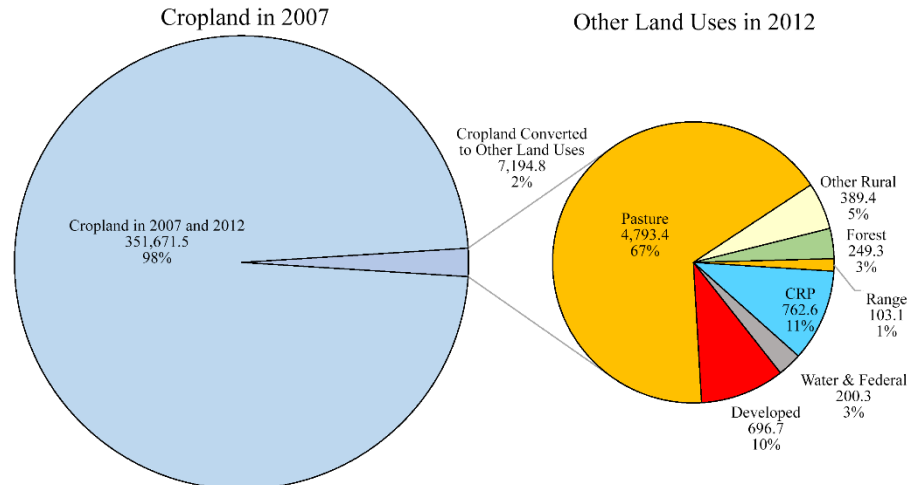
# Change over Time

## Repeated Collection at Points Allows Measuring Gross Change

Cropland Gains from Other Land Uses, 2007 to 2012  
 Thousands of Acres and % of Total Pie



Cropland Conversion to Other Land Uses, 2007 to 2012  
 Thousands of Acres and % of Total Pie



- Example #1 Gross: 4.6M acres of pasture became cropland (above left)  
 and 4.8M acres of cropland became pasture (above right)  
 Net: 0.2M acres converted from cropland to pasture
- Example #2 Gross: 5.5M acres of CRP became cropland (above left)  
 and 0.8M acres of cropland became CRP (above right)  
 Net: 4.7M Acres Converted from CRP to Cropland



# LUCID Estimates

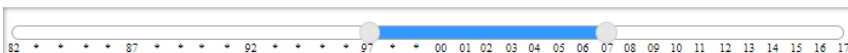
Select Estimate Type:

☒ Area ☐ Erosion ☐ Standard Tables

Filter:

Broaduse = Cultivated Cropland (1)

Select Years: 1997 - 2007



Area of Interest:

List:

Geographical Level:

State  
County

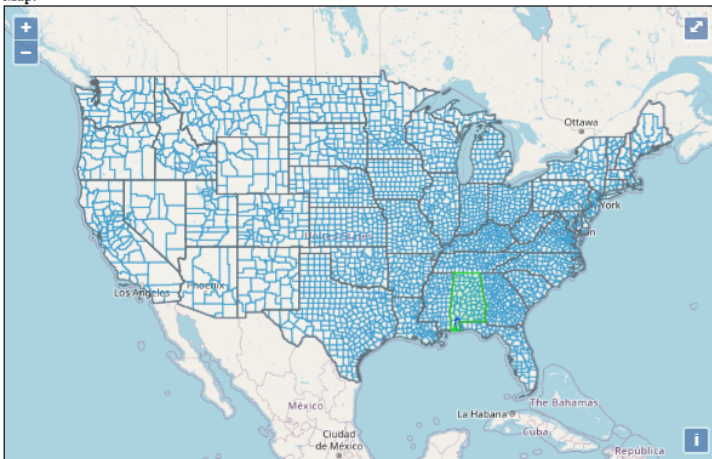
State Name:

Alabama (01)  
Arizona (04)  
Arkansas (05)  
California (06)

County Name:

Autauga (01001)  
Baldwin (01003)  
Barbour (01005)  
Bibb (01007)

Map:



Execute Reset Import Query Export Query

Estimates: Type: Area | Filter: - | Broaduse - Cultivated Cropland (1) | Geo Level: County | State Name: Alabama (01) | County Name: Baldwin (01003) | Year ... click for more ...

Show All entries

Search: Copy Print Save

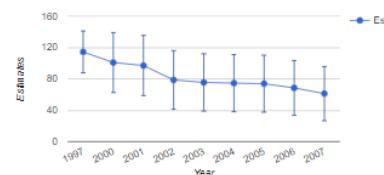
Year	Area (1,000 acres)	Margin of Error	Point Count
1997	114.2	53.3	92
2000	100.7	76.3	82
2001	96.9	76.6	80
2002	78.6	74.4	65
2003	75.4	73.0	57
2004	74.5	72.7	55
2005	73.8	72.5	52
2006	68.4	69.8	46
2007	61.2	69.0	38

Showing 1 to 9 of 9 entries

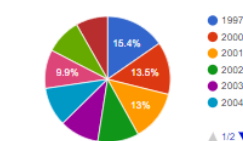
Previous 1 Next

Type of charts: ☒ Line & Error Bar Plot ☒ Pie Chart ☒ Bar Chart ☒ Histogram

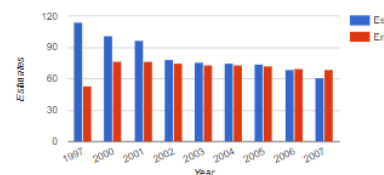
Line & Error Chart for Estimates vs. Year



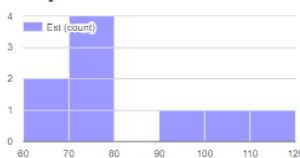
Pi Chart for Estimates vs. Year



Bar Chart for Estimates vs. Year



Histogram for Estimates vs. Year



# LUCID vs. Custom

## LUCID

- One or more State, County
- Multi-year
- Exportable

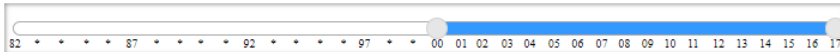
## Custom Requests ([nri@wdc.usda.gov](mailto:nri@wdc.usda.gov))

- Variables not in LUCID
- GIS area

Select Estimate Type:

☐ Area ☐ Erosion ☐ Standard Tables

Select Years: 2000 - 2017



Area of Interest:

List:

Geographical Level:

State  
County

Map:



Execute Reset Import Query

Estimates:

Show All entries

Search:  Copy Print Save

Year	Estimates	Margin of Error	Point Count
No data available in table			

Showing 0 to 0 of 0 entries

Previous 1 Next

Type of charts: ☐ Line & Error Bar Plot ☐ Pie Chart ☐ Bar Chart ☐ Histogram

Using Ctrl +/- will zoom in and out, allowing for different configuration of the elements.

# Basic Steps To Create Estimates

1. Select Estimate Type
2. Construct Filter
  - Variable, Operator, Value
3. Choose Time Period of Interest
4. Select Area of Interest
  - Use the dropdown state/county menu OR
  - Select using the map

# Select Estimate Type

Select Estimate Type:

☐ Area ☐ Erosion ☐ Standard Tables

Select Years: 2000 - 2017



Area of Interest:

List:

Geographical Level:

State  
County

Map:





# Choose Variable to Filter

Select Estimate Type:

☒ Area    ☐ Erosion    ☐ Standard Tables

**Filter:**

Select Years:

Double Crop  
Second Crop  
Water Soil Loss  
Wind Soil Loss  
Combined Water & Wind


**Area of Interest:**

List:

### Geographical Level:

State  
County

**Map:**

**Estimates:**Show All  entries

Year

Estima

Showing 0 to 0 of 0 entries


Type of charts: ☐ Line & Error Bar Plot ☐ Pie Chart ☐ Bar Chart ☐

# Select Operator

Select Estimate Type:

☒ Area    ☐ Erosion    ☐ Standard Tables

**Filter:**



Select Years: 2000 - 2010



**Area of Interest:**

**List:**

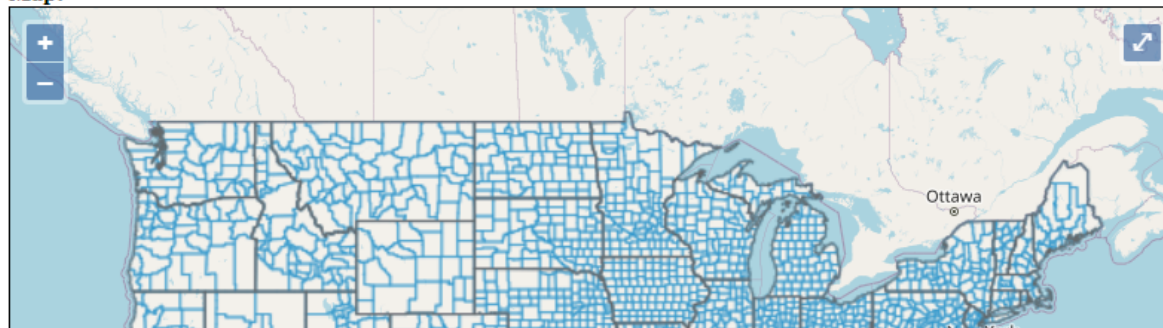
### Geographical Level:

State  
County

**State Name:**

Alabama (01)  
Arizona (04)  
Arkansas (05)  
California (06)

**Map:**



# Select Value

Select Estimate Type:

☒ Area ☐ Erosion ☐ Standard Tables

Filter:

Land Cover Use

=

Hort/Other (6)

Hort/Fruit (1)  
Hort/Nut (2)  
Hort/Vineyard (3)  
Hort/Brush fruit (4)  
Hort/Berries (5)  
Hort/Other (6)  
Row/Corn (11)  
Row/Sorghum (12)  
Row/Soybeans (13)  
Row/Cotton (14)  
Row/Peanuts (15)  
Row/Tobacco (16)  
Row/Sugar beets (17)  
Row/Potatoes (18)  
Row/Other veg/truck crops (19)  
Row/All other row crops (20)  
Row/Sunflower (21)  
Close/Wheat (111)  
Close/Oats (112)  
Close/Rice (113)

Select Years: 2000 - 2010

82 \* \* \* \* 87 \* \* \* \* 92 \*

03 04 05 06 07 08 09 10 11 12 13 14 15 16 17

Area of Interest:

List:

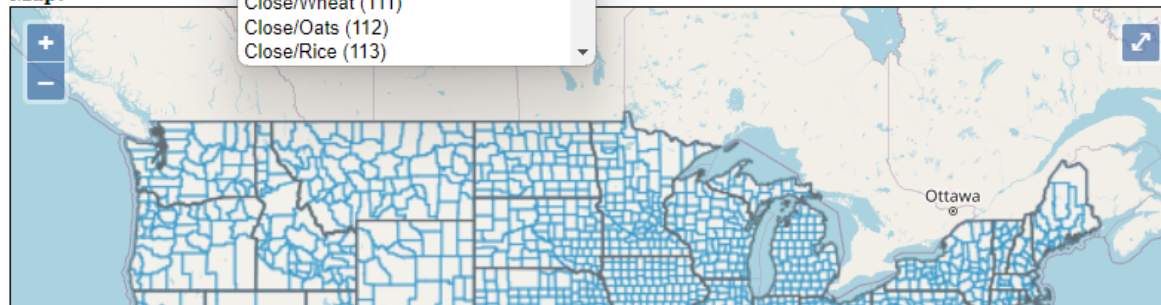
Geographical Level:

State  
County

State Name:

Alabama (01)  
Arizona (04)  
Arkansas (05)  
California (06)

Map:



# Select Time Period

Select Estimate Type:

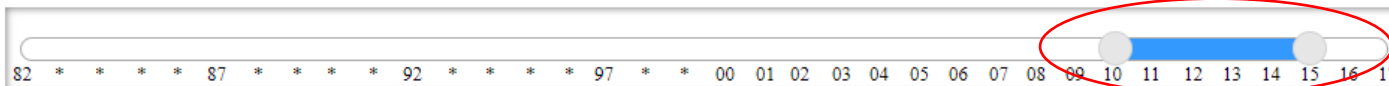
☒ Area ☐ Erosion ☐ Standard Tables

Filter:

Land Cover Use = Row/Corn (11)

+ -

Select Years: 2010 - 2015



Area of Interest:

List:

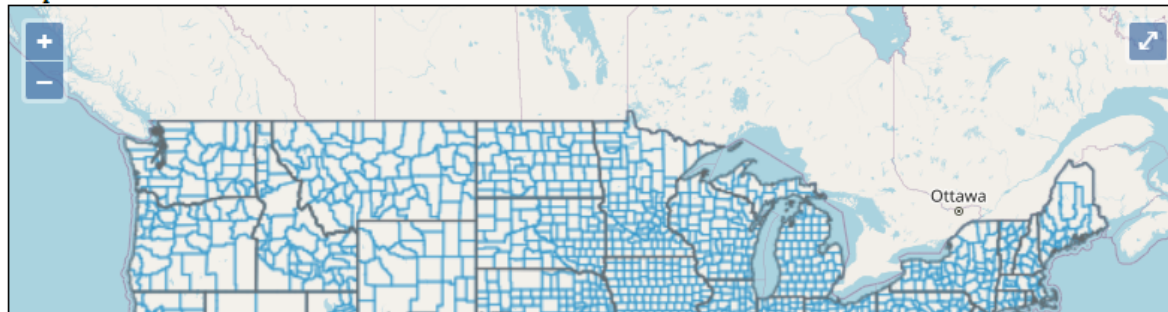
Geographical Level:

State  
County

State Name:

Alabama (01)  
Arizona (04)  
Arkansas (05)  
California (06)

Map:



# Define Area of Interest

## Area of Interest:

### List:

#### Geographical Level:

State  
County

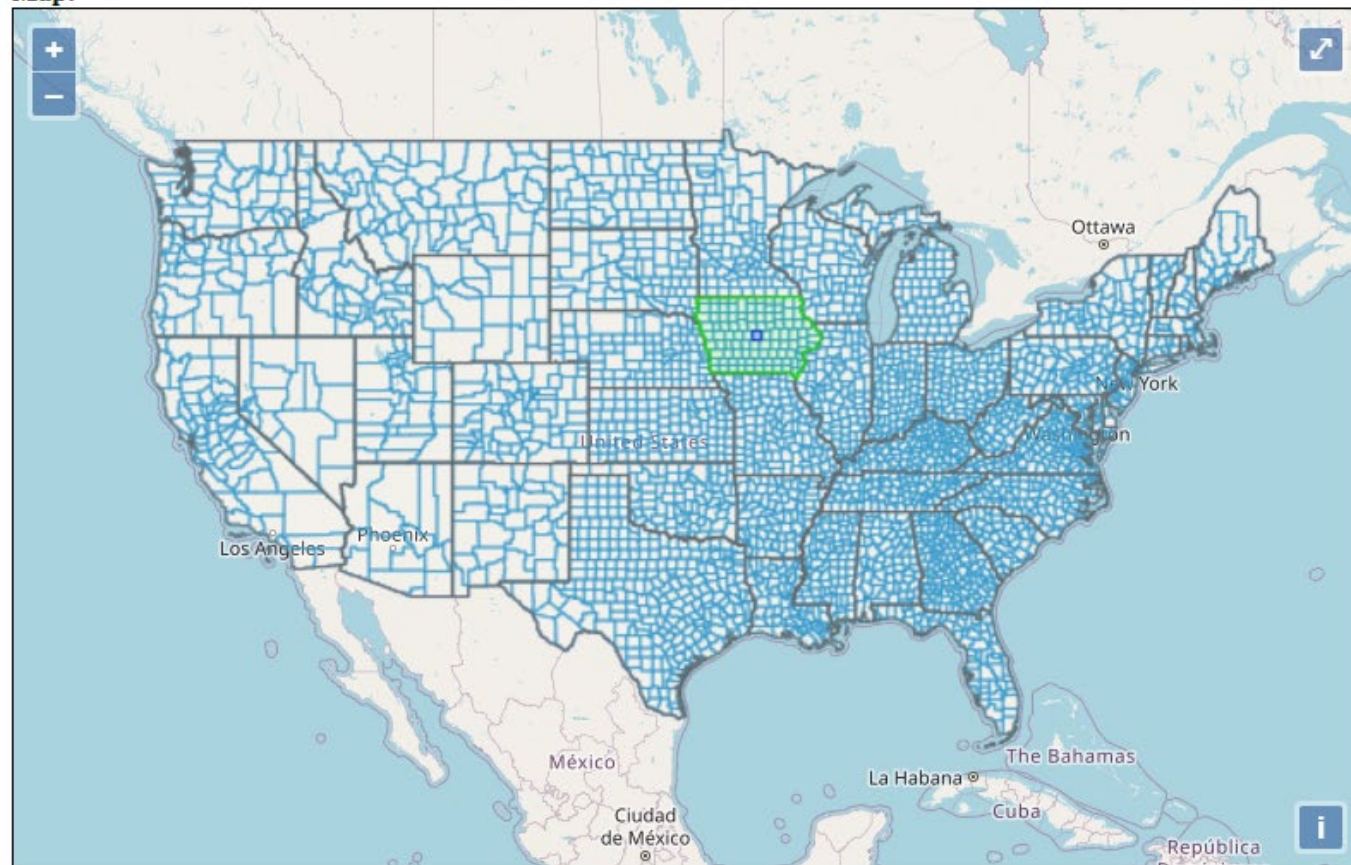
#### State Name:

Indiana (18)  
Iowa (19)  
Kansas (20)  
Kentucky (21)

#### County Name:

Scott (19163)  
Shelby (19165)  
Sioux (19167)  
Story (19169)

## Map:



Execute

Reset

Import Query



# Define Area of Interest (Continued)

- Select From List
  - State(s)
  - County or Counties
  - Use Ctrl key to select multiple
- Select from map
- Start with one and adjust using the other

# Define Area of Interest (Continued)

Area of Interest:

List:

Geographical Level:

State  
County

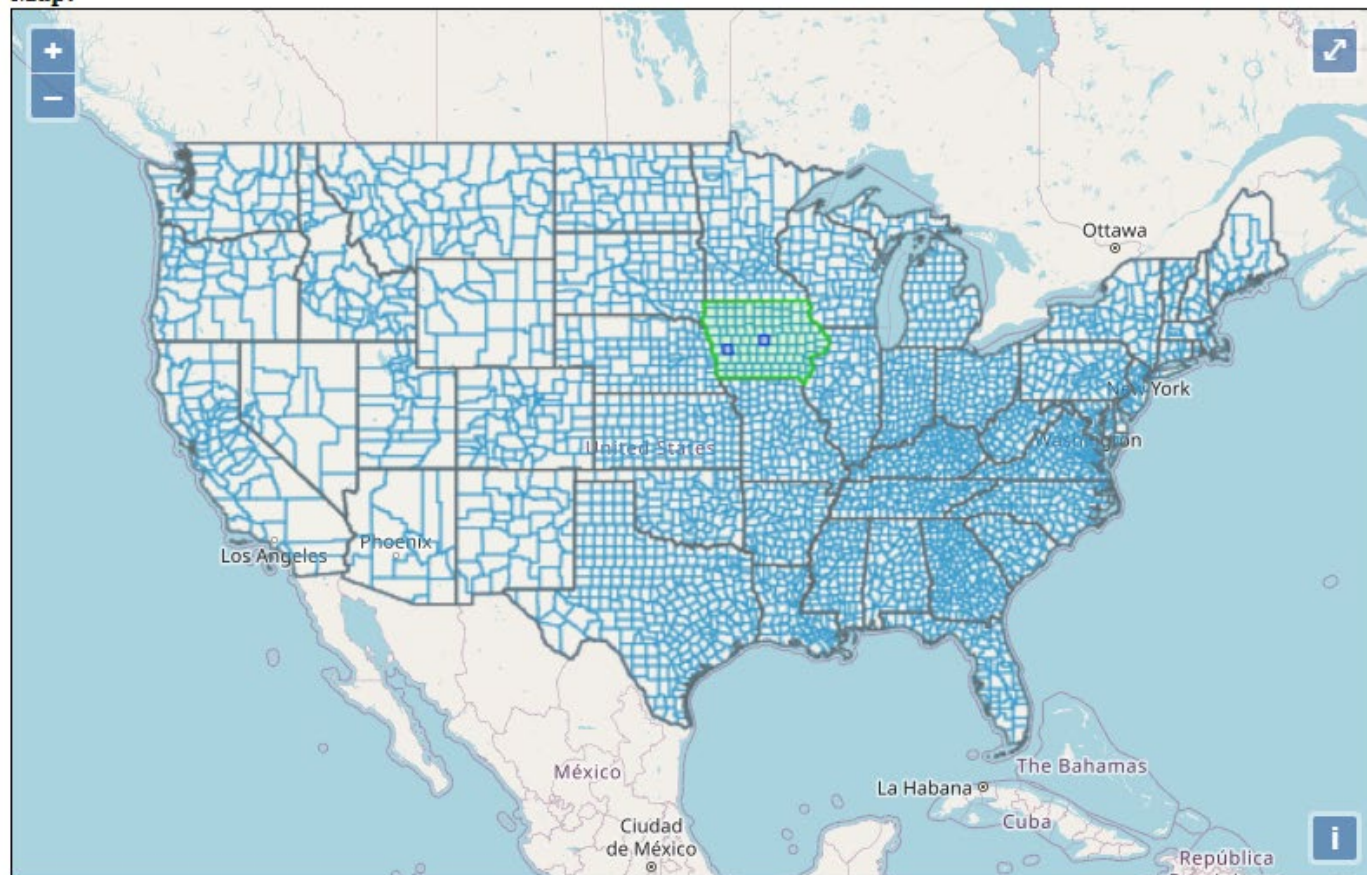
State Name:

Indiana (18)  
Iowa (19)  
Kansas (20)  
Kentucky (21)

County Name:

Scott (19163)  
Shelby (19165)  
Sioux (19167)  
Story (19169)

Map:



Execute

Reset

Import Query

# Define Area of Interest (Continued)

Area of Interest:

List:

Geographical Level:

State  
County

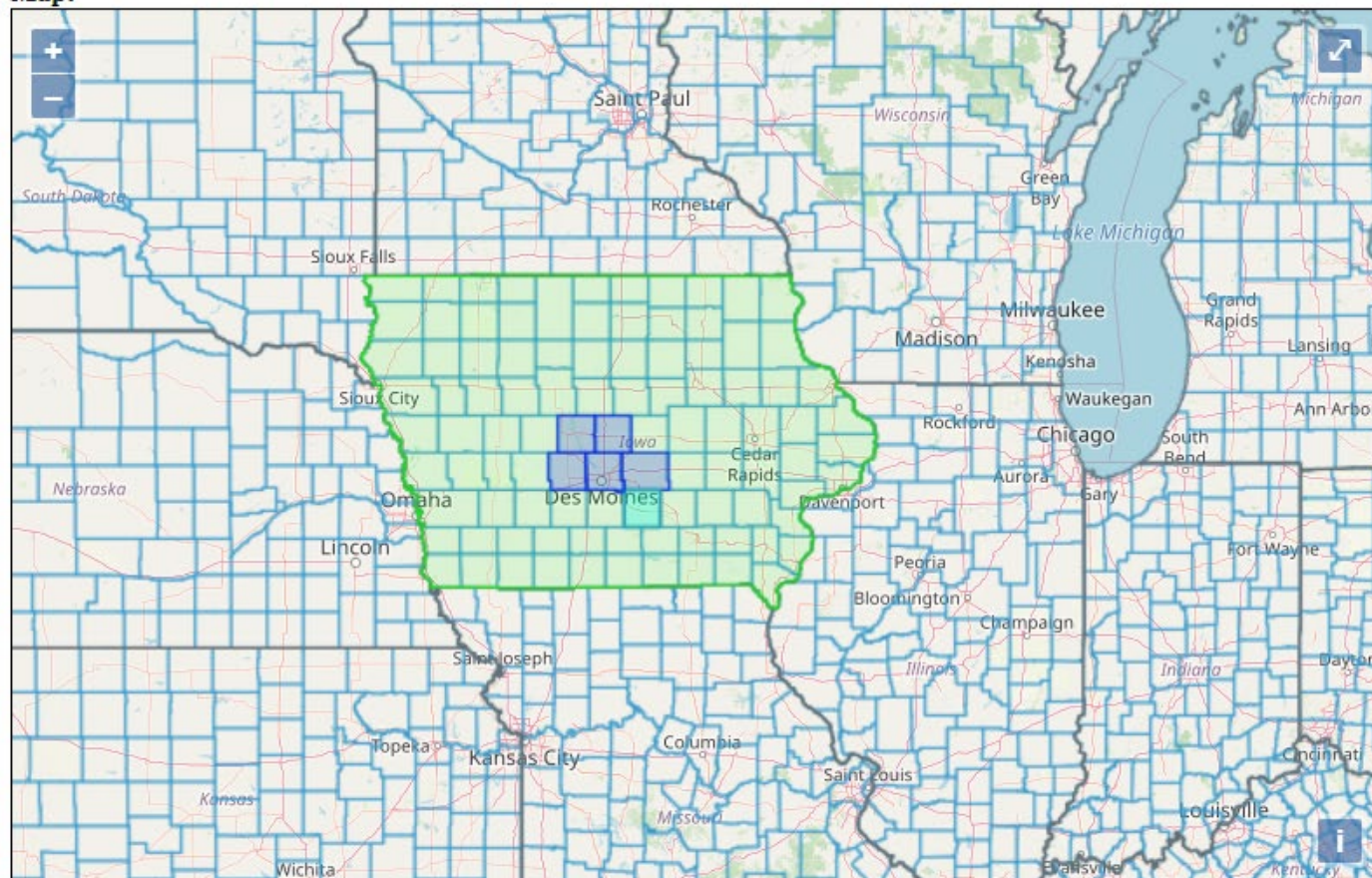
State Name:

Indiana (18)  
Iowa (19)  
Kansas (20)  
Kentucky (21)

County Name:

Scott (19163)  
Shelby (19165)  
Sioux (19167)  
Story (19169)

Map:



Execute

Reset

Import Query



# Finally, Execute

Area of Interest:

List:

Geographical Level:

State  
County

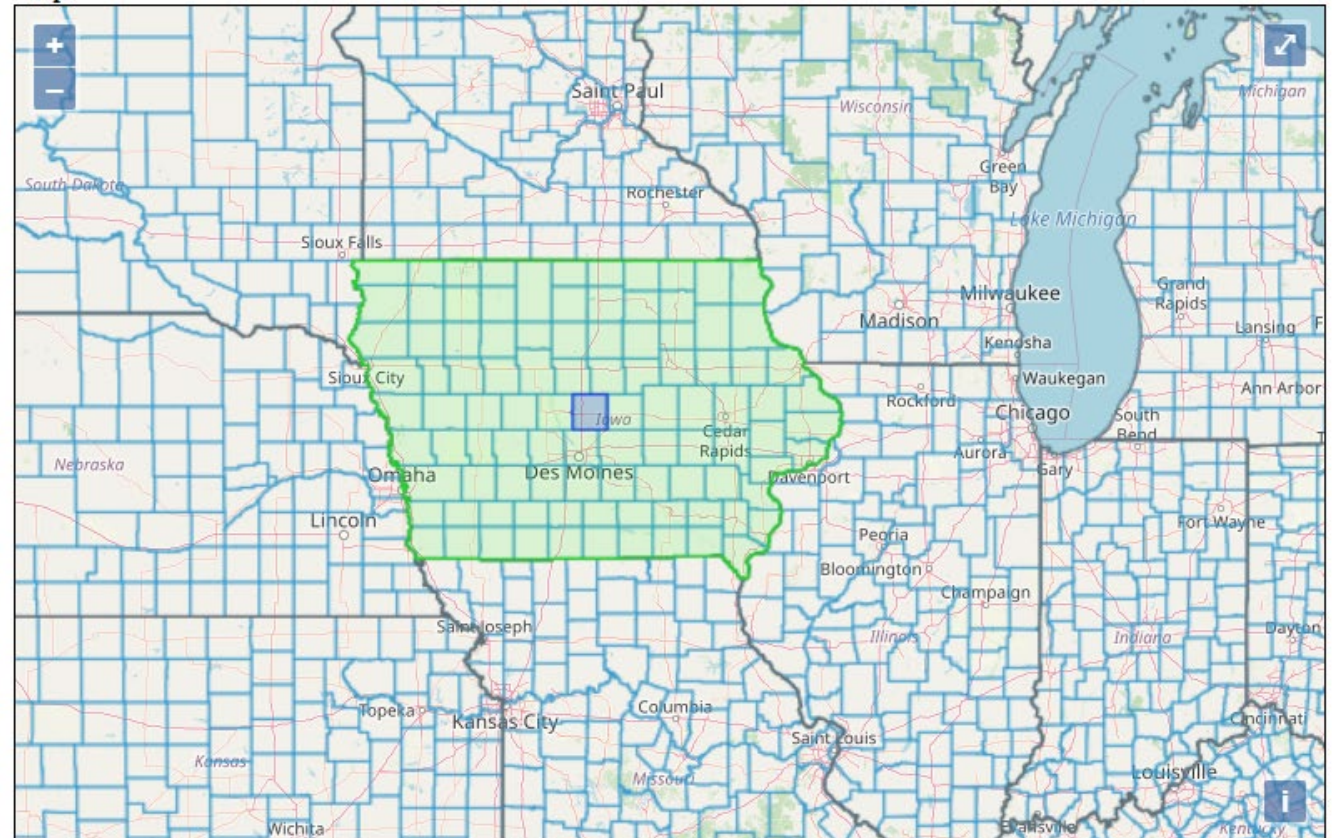
State Name:

Indiana (18)  
Iowa (19)  
Kansas (20)  
Kentucky (21)

County Name:

Story (19169)  
Tama (19171)  
Taylor (19173)  
Union (19175)

Map:



Execute

Reset

Import Query

# LUCID Results

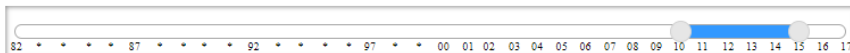
Select Estimate Type:

☒ Area ☐ Erosion ☐ Standard Tables

Filter:

Land Cover Use = Row/Corn (11)

Select Years: 2010 - 2015



Area of Interest:

List:

Geographical Level:

State:  County:

State Name:

Indiana (18)

Iowa (19)

Kansas (20)

Kentucky (21)

County Name:

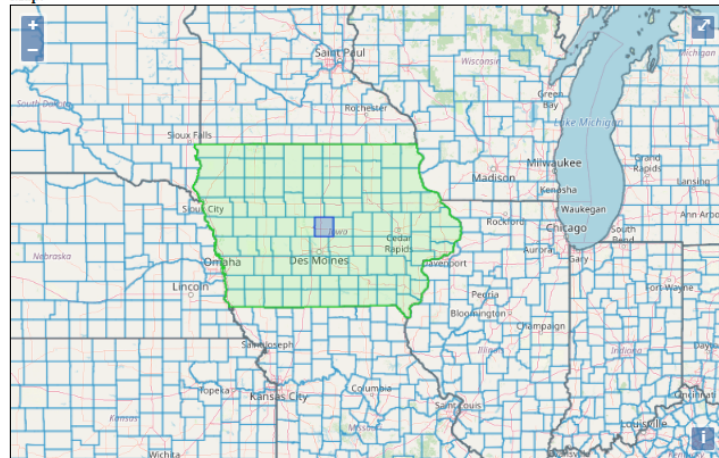
Story (19169)

Tama (19171)

Taylor (19173)

Union (19175)

Map:



Estimates: Type Area | Filter - Land Cover Use = Row/Corn (11) | Geo Level: County | State Name: Iowa (19) | County Name: Story (19169) | Story (19169) - click for more ...

Show All entries

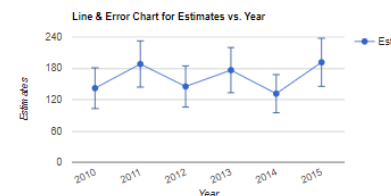
Search:

Year	Area (1,000 acres)	Margin of Error	Point Count
2010	141.9	77.9	93
2011	188.1	88.5	123
2012	145.1	78.7	97
2013	176.4	86.6	117
2014	131.4	73.0	84
2015	191.4	92.0	126

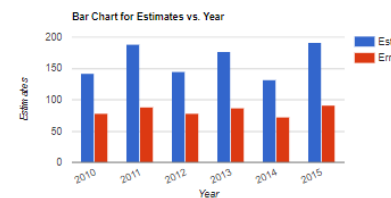
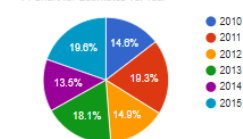
Showing 1 to 6 of 6 entries

Previous  Next

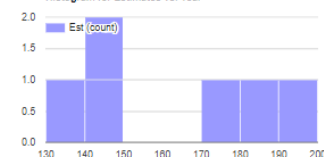
Type of charts: ☒ Line & Error Bar Plot ☒ Pie Chart ☒ Bar Chart ☒ Histogram



Pi Chart for Estimates vs. Year



Histogram for Estimates vs. Year





# Adding Filters

Select Estimate Type: ☒ Area ☐ Erosion ☐ Standard Tables

Filter: + -

Land Cover Use  =  Row/Corn (11)

Second Crop  =  Row/Sorghum (12)

Select Years: 2006 - 2015

Area of Interest:

List:

Geographical Level:

State

County

State Name:

Indiana (16)

Iowa (19)

Kansas (20)

Kentucky (21)

Map:

United States

Los Angeles Phoenix

Mexico The Bahamas

Washington New York

Ottawa

Execute Reset Import Query Export Query

Estimates: Type: Area / Filter : Land Cover Use = Row/Corn (11) AND Second Crop = Row/Sorghum (12) / Geo Level: State / State Name: Kansas (20) / Years: ... click for more ...

Show: All entries Search: Copy Print Save

Year	Area (1,000 acres)	Margin of Error	Point Count
2006	13.9	11.8	9
2007	64.1	35.4	39
2008	25.6	22.9	12
2009	11.8	10.1	10
2010	6.6	5.9	5
2011	4.5	5.4	4
2012	32.7	25.4	21
2013	19.0	21.5	8
2014	7.1	6.5	5

Showing 1 to 10 of 10 entries Previous 1 Next

Type of charts: ☐ Line & Error Bar Plot ☐ Pie Chart ☐ Bar Chart ☐ Histogram

Yellow: Margin of error is 75 – 99% of the estimate

Red: Margin of error is > or = 100% of the estimate

# Point Count

Select Estimate Type: ☒ Area ☐ Erosion ☐ Standard Tables

Filter:   
 Land Cover Use  =  Row/Corn (11)   
 Second Crop  =  Row/Sorghum (12)

Select Years: 2006 - 2015

Area of Interest:

List:   
 Geographical Level:   
 State    
 County    
 State Name:   
 Indiana (18)   
 Iowa (19)   
 Kansas (20)   
 Kentucky (21)

Map:

Execute Reset Import Query Export Query

Estimates: Type: Area | Filter : Land Cover Use = Row/Corn (11) AND Second Crop = Row/Sorghum (12) | Geo Level: State | State Name: Kansas (20) | Years: ... click for more ...

Show: All entries Search: Copy Print Save

Year	Area (1,000 acres)	Margin of Error	Point Count
2006	13.9	11.8	9
2007	64.1	35.4	39
2008	25.6	22.9	12
2009	11.8	10.1	10
2010	6.6	5.9	5
2011	4.5	5.4	4
2012	32.7	25.4	21
2013	19.0	21.5	8
2014	7.1	6.5	5

Showing 1 to 10 of 10 entries Previous 1 Next

The last column shows the number of NRI points the estimate is based on.

Fewer points limits the accuracy.

# Export Estimates

Select Estimate Type:

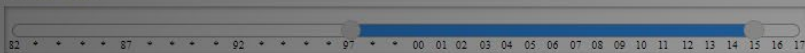
☒ Area
 ☐ Erosion
 ☐ Standard Tables

Filter:

Land Cover Use = Row/Soybeans (13)

Prime Farmland = Yes

Select Years: 1997 - 2015



Area of Interest:

List:

Geographical Level:

State  
County

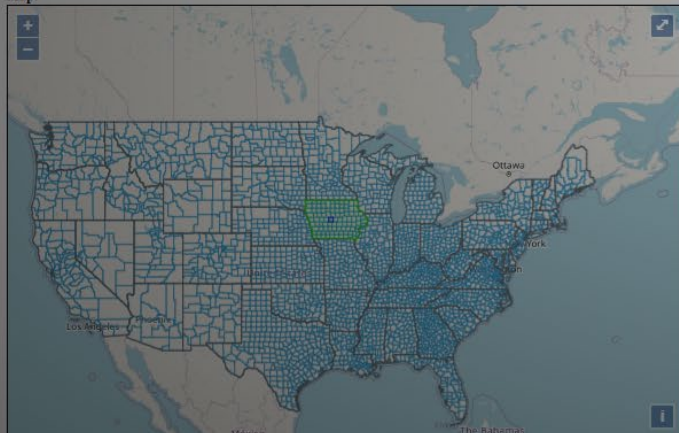
State Name:

Iowa (19)  
Kansas (20)  
Kentucky (21)  
Louisiana (22)

County Name:

Boone (19015)  
Brenner (19017)  
Buchanan (19019)  
Cass (19021)

Map:



Estimates: Type: Area Filter: Land Cover Use Row/Soybeans (13) AND Prime Farmland Yes (Geo Level: County) State Name: Iowa (19) County Name: ... Click for more ...

Show All entries

Search:

Copy Print Save

Year	Area (1,000 acres)	Margin of Error	Point Count
1997	111.8	25.4	72
2000	88.1	45.7	54
2001	125.4	68.9	81
2002	99.3	50.6	64
2003	94.8	56.4	61
2004	103.6	55.0	68
2005	82.8	50.8	53
2006	95.2	50.2	60
2007	88.5	51.2	58

Showing 1 to 17 of 17 entries

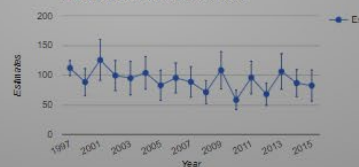
Previous

1

Next

Type of charts: ☒ Line & Error Bar Plot ☒ Pie Chart ☒ Bar Chart ☒ Histogram

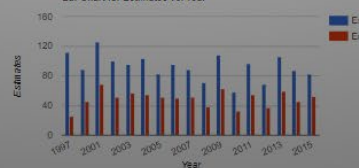
Line & Error Chart for Estimates vs. Year



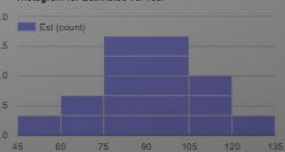
Pi Chart for Estimates vs. Year



Bar Chart for Estimates vs. Year



Histogram for Estimates vs. Year





United States  
Department of  
Agriculture

# Export Query



## Land Use & Cover Inventory Database(LUCID) System

Select Estimate Type:

☒ Area ☐ Erosion ☐ Standard Tables

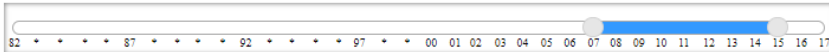
Filter:

Land Cover Use = Forestland/Grazed (341)

AND  
OR

Land Cover Use = Forestland/Not grazed (342)

Select Years: 2007 - 2015



Area of Interest:

List:

Geographical Level:  
State  
County

State Name:

Iowa (19)

Kansas (20)

Kentucky (21)

Louisiana (22)

County Name:

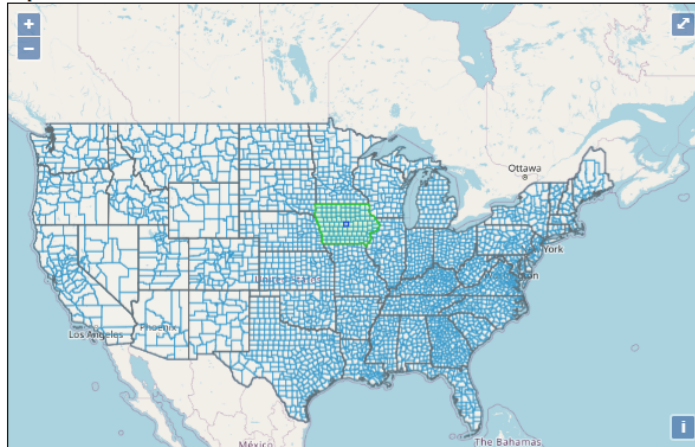
Sioux (19167)

Story (19169)

Tama (19171)

Taylor (19173)

Map:



Execute

Reset

Import Query

Export Query

Estimates: Type: Area | Filter: Land Cover Use = Forestland/Grazed (341) OR Land Cover Use = Forestland/Not grazed (342) | Geo Level: County | State Na ... click for more ...

Show All entries

Search:

Copy Print Save

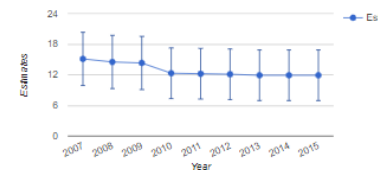
Year	Area (1,000 acres)	Margin of Error	Point Count
2007	15.1	10.4	23
2008	14.5	10.4	20
2009	14.3	10.4	18
2010	12.3	9.9	15
2011	12.2	9.9	14
2012	12.1	9.9	13
2013	11.9	9.9	12
2014	11.9	9.9	12
2015	11.9	9.9	12

Showing 1 to 9 of 9 entries

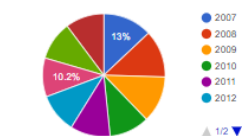
Previous 1 Next

Type of charts: ☒ Line & Error Bar Plot ☒ Pie Chart ☒ Bar Chart ☒ Histogram

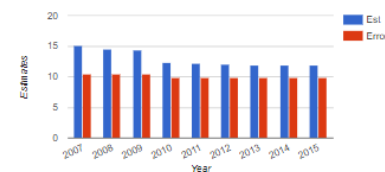
Line & Error Chart for Estimates vs. Year



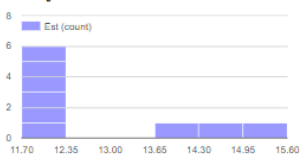
Pie Chart for Estimates vs. Year



Bar Chart for Estimates vs. Year



Histogram for Estimates vs. Year



# Export Query (Continued)

```
export (5) - Notepad
File Edit View
|*** warning! Please DO NOT edit this file at all, otherwise it'll not be imported back correctly ***
Type: Area | Filter - : Land Cover Use = Forestland/Grazed (341) OR Land Cover Use = Forestland/Not grazed (342) | Geo Level: County | State Name: Iowa (19) | County Name: Story (19169) | Years: 2007 - 2015 |
```

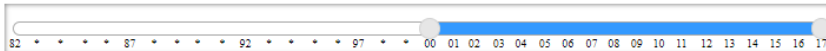


# Import Saved Queries

Select Estimate Type:

☐ Area
 ☐ Erosion
 ☐ Standard Tables

Select Years: 2000 - 2017



Area of Interest:

List:

Geographical Level:

Map:



Estimates:

Show  entries

Search:

Year	Estimates	Margin of Error	Point Count
------	-----------	-----------------	-------------

No data available in table

Showing 0 to 0 of 0 entries

Type of charts: ☐ Line & Error Bar Plot ☐ Pie Chart ☐ Bar Chart ☐ Histogram



United States  
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Agriculture

# Erosion Estimates



Land Use & Cover Inventory Database(LUCID) System

Select Estimate Type:

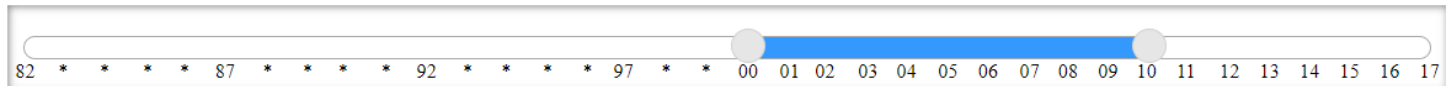
☐ Area ☒ Erosion ☐ Standard Tables

Filter:

=   
Water Soil Loss  
Wind Soil Loss  
Combined Water & Wind



Select Years: 2000 - 2010



Area of Interest:

List:

Geographical Level:

State  
County


Map:



# Erosion Estimates

Erosion is only calculated on:

- Cultivated Cropland
- Non-cultivated Cropland
- Pastureland and
- Conservation Reserve Program - General


Land Use & Cover Inventory Database(LUCID) System

---

**Select Estimate Type:**
☐ Area
 ☒ Erosion
 ☐ Standard Tables

**Filter:**

Water Soil Loss

--Per Year Variables--  
 Broaduse  
 Land Cover Use  
 Cowardin Wetland System  
 Palustrine & Estuarine Wetland  
 Prime Farmland  
 Forest Group Type  
 Double Crop  
 Second Crop  
 Water Soil Loss  
 Wind Soil Loss  
 Combined Water & Wind

=

+

-

**Select Years:** 2000 - 2010

82 \* \* \* \* 87 \* \*

**Area of Interest:**


**List:**

**Geographical Level:**

State

County

**Map:**



# Erosion Estimates (Continued)

Land Use & Cover Inventory Database(LUCID) System

Select Estimate Type:

☐ Area
 ☒ Erosion
 ☐ Standard Tables

Filter:

Water Soil Loss

Broaduse

=

Cultivated Cropland (1)

Select Years: 2000 - 2010

Area of Interest:

List:

Geographical Level:

State

County

State Name:

Illinois (17)

Indiana (18)

Iowa (19)

Missouri (20)

Map:

Execute

Reset

Import Query

Export Query

Estimates: Type: Erosion / Filter - Water Soil Loss : Broaduse = Cultivated Cropland (1) / Geo Level: State / State Name: Iowa (19) / Years: 2000 - 2010

Show

All

entries

Search:

Copy

Print

Save

Year	Erosion	Margin of Error	Point Count
2000	5.6	0.2	15606
2001	5.7	0.2	15453
2002	5.8	0.2	15456
2003	5.7	0.2	15372
2004	5.7	0.2	15316
2005	5.7	0.2	15242
2006	5.7	0.2	15219
2007	5.7	0.2	15152
2008	5.7	0.2	15145

Showing 1 to 11 of 11 entries

Previous

1

Next

Type of charts:

☒ Line & Error Bar Plot
 ☐ Pie Chart
 ☐ Bar Chart
 ☐ Histogram

Line & Error Chart for Estimates vs. Year

# Standard Tables

Select Estimate Type:

☐ Area ☐ Erosion ☒ Standard Tables

Filter:

▼  
Total surface area by year  
Changes in broad cover/use  
Prime farmland area  
Prime farmland area by year  
Average annual sheet and rill erosion by year  
Average annual wind erosion by year  
Conservation Reserve Program by year  
Cropland and pastureland by year  
Cropland and pastureland (irrigation)  
Conservation practices by year  
Cowardin system by broad cover/use

Select Years:

82

87

92

97

00

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

17

Area of Interest:



# Standard Table Result

Type: Standard Tables | FILTERS - Changes in broad cover/use : Broad Cover/Use -Cultivated Cropland-1 Noncultivated Cropland-2 Pastureland-3 Rangeland-4 Forestland-5 Minor Land-6 Urban Builtup-7 Rural Transportation-8 Small Water-9 Large Water-10 Federal Land-11 CRP Land-12 | Geo Level: County | State Name: Iowa (19) | County Name: Boone (19015) Polk (19153) Story (19169) | Years: 1997 - 2012 |

Table 2b(NRCS Table B-2). Changes in broad cover/use between 1997 and 2002 . (SE)

	2002 Broad Cover/Use												
1997 Broad Cover/Use	Cult. Cropland	Noncult. Cropland	Pasture-land	Range-land	Forest Land	Minor Land	Urban Built-up	Rural Transport	Small Water	Large Water	Federal Land	CRP Land	Total
	1,000 acres												
Cultivated Cropland	745.1 (35.9)	0.1 (0.1)	1.2 (0.9)	0.0 (0.0)	0.0 (0.0)	1.7 (1.1)	5.5 (0.0)	0.9 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	1.3 (1.6)	755.8 (36.0)
Noncult. Cropland	3.3 (2.3)	20.6 (5.8)	2.2 (1.8)	0.0 (0.0)	2.0 (3.6)	0.0 (0.0)	0.2 (1.4)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	1.3 (1.6)	29.6 (7.7)
Pastureland	1.9 (1.8)	0.0 (0.0)	42.4 (13.8)	0.0 (0.0)	7.0 (2.9)	0.3 (1.1)	1.7 (0.1)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	53.3 (14.3)
Rangeland	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)
Forest Land	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	46.4 (10.5)	0.0 (0.0)	2.4 (1.5)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	48.8 (10.6)
Minor Land	0.4 (0.2)	0.0 (0.0)	0.1 (0.1)	0.0 (0.0)	1.1 (3.2)	21.4 (5.1)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	23.0 (6.0)
Urban Built-up	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	116.1 (15.5)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	116.1 (15.5)
Rural Transportation	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.1 (0.1)	30.3 (1.8)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	30.4 (1.8)
Small Water	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.7 (0.7)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	8.5 (1.8)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	9.2 (1.9)
Large Water	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	7.6 (0.0)	0.0 (0.0)	0.0 (0.0)	7.6 (0.0)
Federal Land	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	29.0 (0.0)	0.0 (0.0)	29.0 (0.0)
CRP Land	1.9 (2.0)	0.0 (0.0)	3.0 (2.3)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.6 (0.6)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	3.6 (2.8)	9.1 (4.2)
Total	752.6 (36.1)	20.7 (5.8)	48.9 (14.2)	0.0 (0.0)	57.2 (11.9)	23.4 (5.4)	126.6 (15.6)	31.2 (1.8)	8.5 (1.8)	7.6 (0.0)	29.0 (0.0)	6.2 (3.6)	1111.9 (0.0)

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# LUCID and NRI Support

- Please email [lucid-support@iastate.edu](mailto:lucid-support@iastate.edu) for all LUCID Support issues.
- For general NRI questions or help with data requests not available in LUCID, please email [nri@wdc.usda.gov](mailto:nri@wdc.usda.gov).

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