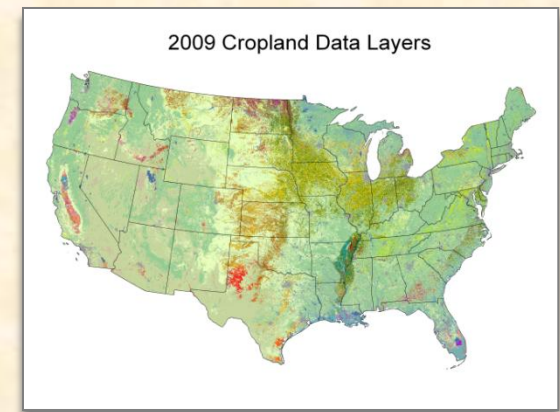
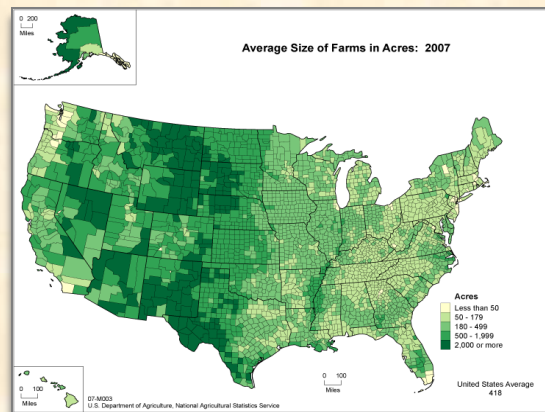
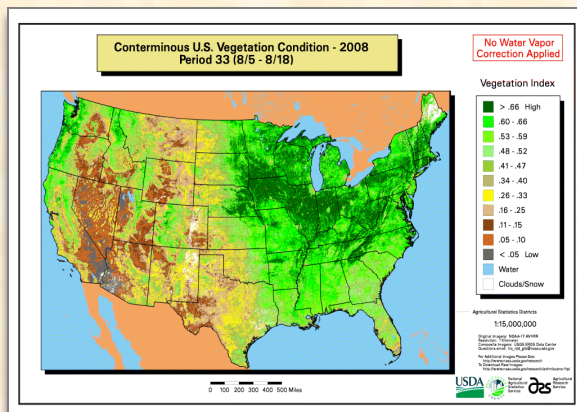
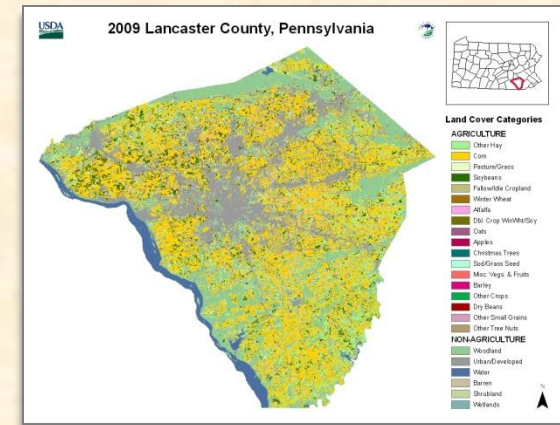
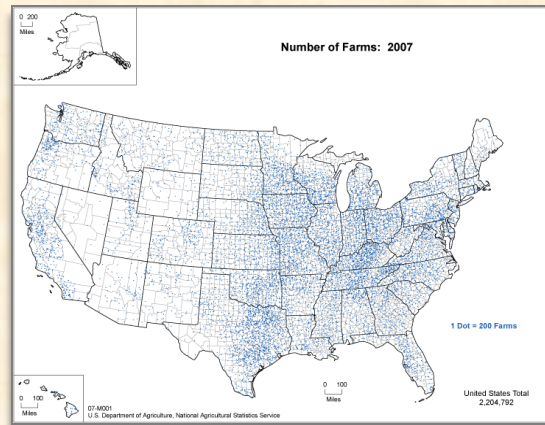
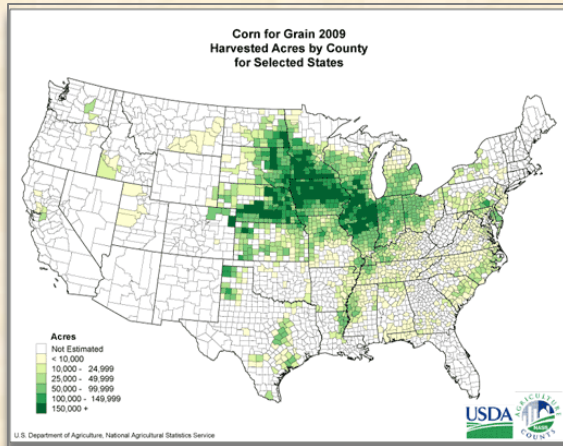


NASS Geospatial Products



Gail Wade
 National Agricultural Statistics Service
 Research and Development Division
 Geospatial Information Branch
 September 15, 2010



NASS MISSION:

To provide timely, accurate, and useful statistics in service to U.S. agriculture



What does NASS do?

- Administer USDA's Statistical Estimating Program
- Conduct the 5-year Census of Agriculture
- Coordinate Federal/State agricultural statistical needs
- Provide statistical consulting for Federal/State governments, universities, and other countries
- Collect and summarize agricultural data under reimbursable agreements
- Conduct statistical research

NASS issues about 500 statistical reports each year and about 9,000 reports and news releases from its 46 field offices

Newsroom

NASS to Release Agricultural Safety Reports

Issued July 29, 2010 by the Agricultural Statistics Board of the U.S. Department of Agriculture. For more information call (202) 690-2389.

USDA's National Agricultural Safety Reports are released four times a year at 3 p.m. EDT. The four reports cover farm accidents, injuries to farm adults, injuries to farm children, and injuries to farm animals.

USDA's National Agricultural Statistics Service

Search NASS

Quick Stats (Agricultural Statistics Data Base)

Additional Crops County Resources

Census of Agriculture

Interactive Data

Table Lens Application for 1997 Census Data

Last modified: 12/30/05

2001 Wildlife Damage Survey

7.7 Percent of Crop Value Lost to Deer and Geese

Maryland farmers lost \$17.2 million of corn, soybeans and wheat to deer or geese during 2001. This translates to Maryland farmers losing 7.7 percent of the crop value to deer and geese. Soybeans accounted for the greatest economic loss, totaling \$9.1 million, 11 percent. Corn losses were \$6.6 million, 5.8 percent and wheat \$1.5 million, 5.6 percent. Deer damage resulted in losses of \$13.6 million, 6.1 percent, while geese losses were \$3.6 million, 1.6 percent.

Estimated 6.0 million bushels. Corn losses were 3.2 million bushels, soybean losses totaled and wheat accounted for 0.6 million bushels. Production losses to deer were 4.7 million bushels.

Losses to deer were most severe in Central and Western Maryland, while geese damage was most severe in Maryland's Eastern Shore. Corn yield losses of 9.6 bushels per acre and 7.4 bushels per acre were reported from Maryland, respectively. The Lower Eastern Shore reported the highest soybean losses per acre.

If farms reported deer or geese damage to one or more crops. Damage was reported on 61 using corn, 58 percent of farms growing soybeans and 27 percent of farms with wheat.

Maryland 2001 Crop Loss from Deer

NEWS RELEASE

NATIONAL AGRICULTURAL STATISTICS SERVICE

United States Department of Agriculture - Washington, DC 20250
Ag Statistics Hotline: (800) 727-9540 • www.nass.usda.gov

Contract: Ellen Dougherty, (202) 690-8122
Jeff Geuder, (202) 720-2127

USDA FORECASTS RECORD-SETTING CORN CROP FOR 2007

Washington, Aug. 10, 2007 - U.S. farmers are expected to produce the largest corn crop in history in 2007, according to the *Crop Production* report released today by the U.S. Department of Agriculture's National Agricultural Statistics Service (NASS). Corn production is forecast at 13.1 billion bushels, 10.6 percent above the previous record of 11.8 billion bushels set in 2004.

Based on conditions as of August 1, corn yields are expected to average 152.8 bushels per acre, up 3.7 bushels from last year. This would be second highest corn yield on record, behind the 160.4 bushels per acre produced in 2004. Growers are expected to harvest 85.4 million acres of corn for grain, the most since 1933 and 14.8 million more acres than last year.

Yield forecasts are higher than last year across the Great Plains, central Corn Belt and Delta. Meanwhile, hot, dry conditions led to lower expected yields across much of the northern and eastern Corn Belt, Ohio Valley, Tennessee Valley, Southeast and Atlantic Coast.

NASS forecasts 2007 soybean production at 2.63 billion bushels, down 18 percent from last year's record high of 3.19 billion bushels. Yields are expected to average 41.5 bushels per acre, down 1.2 bushels from last year.

All cotton production is estimated at 17.3 million 480-pound bales, down 20 percent from last year's 21.6 million bales. Yield is expected to average 783 pounds per harvested acre, down 31 pounds from 2006.

All wheat production, at 2.11 billion bushels, is up 17 percent from 2006, with yield forecast at 40.6 bushels per acre, up 1.9 bushels from last year.

NASS's crop production forecasts are based on both farm operator surveys and actual field counts conducted among a statistically selected sample between July 23 and August 6. *Crop Production* and all other NASS reports are available online at www.nass.usda.gov.

Newsroom

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Contact: Alex Minchenkov, (202) 690-8121
Richard Barton, (202) 690-1502

Farm Production Expenses Fall for First Time Since 1986

WASHINGTON, August 3, 2010 - After setting a record high in 2008, U.S. farm production expenditures decreased by nearly \$20 billion in 2009 - the first major decline in nearly a

WISCONSIN AGRICULTURAL STATISTICS SERVICE

P.O. Box 8034 Madison, WI 53708-8034

In cooperation with WI Department of Agriculture, Trade and Consumer Protection

2002 Dairy Producer Opinion Survey

November 2002

Wisconsin Milk Production To Recover

Milk production is expected to increase in Wisconsin during the next five years according to a survey conducted by the Wisconsin Agricultural Statistics Service. This statewide survey of producers asked for their plans with the assumption that milk prices for the next five years will be at the same level as the past five years. The survey was conducted during May and June 2002.

Based on the survey, 60 percent of producers expect to keep the same herd size, 20 percent plan to increase herd size, and 20 percent intend to discontinue milking by 2007. Actual results will depend on future milk prices, input prices, financing availability, crop yields, and other factors.

The number of herds projected for 2007 shows that the diversity of small to large herds will continue. The most prevalent herd size will remain at 50 to 99 cows.

17The May 2007 projection is based on farmers' opinions May-June 2002, with the assumption that milk prices for the next five years will be at the same level as the past five years.



Wisconsin Dairy Farmer Plans for May 2007 1/ by Herd Size

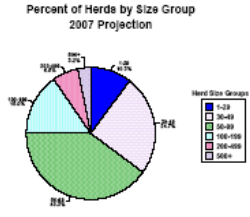
Milk cow herd size	Herds	Keep same herd size	Increase herd size	Discontinue milking
1 - 29	2,600	47	17	36
30 - 49	4,700	71	9	20
50 - 99	7,400	83	19	18
100 - 149	11,900	53	37	10
150 - 199	700	33	59	8
200 - 499	200	22	78	0
500+	17,500	92	28	20
Total	17,500	92	28	20

1/7The May 2007 projection is based on farmers' opinions May-June 2002, with the assumption that milk prices for the next five years will be at the same level as the past five years.

Wisconsin Dairy Herds by Herd Size


Milk cow herd size	May 2002 herds	May 2007 herds (projected) 1/	Change 2007/2002	Percent
1 - 29	2,600	1,440	-46	
30 - 49	4,700	3,440	-27	
50 - 99	7,400	5,600	-24	
100 - 199	1,900	2,080	+9	
200 - 499	700	900	+29	
500+	200	440	+120	
Total	17,500	15,900	-20	

1/7The May 2007 projection is based on farmers' opinions May-June 2002, with the assumption that milk prices for the next five years will be at the same level as the past five years.




A decorative header image showing a portion of a map with various colored regions and lines, likely representing geographical boundaries or data layers. The colors include yellow, green, blue, and brown.

Topics

- ▶ County Estimates
 - ▶ Census of Agriculture
 - ▶ Vegetation Condition
 - ▶ Cropland Data Layer
- 
- A decorative graphic element in the bottom-left corner consisting of overlapping green shapes with a diagonal line pattern, transitioning from a dark green to a lighter green.

County Estimates

- ▶ NASS begins preparing year end county crop production estimates immediately after publishing the annual Crop Production Summary in January


 United States Department of Agriculture
 National Agricultural Statistics Service
Crop Production 2009 Summary
 January 2010

Corn: Area Planted for All Purposes and Harvested for Grain
 by State and United States, 2007-2009

State	Area Planted for All Purposes			Area Harvested for Grain		
	2007 <i>1,000 acres</i>	2008 <i>1,000 acres</i>	2009 <i>1,000 acres</i>	2007 <i>1,000 acres</i>	2008 ¹ <i>1,000 acres</i>	2009 <i>1,000 acres</i>
AL	340	260	280	280	235	250
AZ	55	50	50	22	15	20
AR	610	440	430	590	430	410
CA	630	670	530	190	170	160
CO	1,200	1,250	1,100	1,060	1,010	990
CT ²	26	27	26			
DE	195	160	170			
FL	70	70	70			
GA	510	370	420			
ID	320	300	300			
IL	13,200	12,100	12,000			
IN	6,500	5,700	5,600			
IA	14,200	13,300	13,700			
KS	3,900	3,850	4,100			
KY	1,440	1,210	1,220			
LA	740	520	630			
ME ²	28	28	28			
MD	540	460	470			
MA ²	18	19	17			
MI	2,650	2,400	2,350			
MN	8,400	7,700	7,600			
MS	930	720	730			
MO	3,450	2,800	3,000			
MT	84	78	72			
NE	9,400	8,800	9,150			
NH ²	5	4	4			
NH ²	14	15	15			
NJ	95	85	80			
NM	135	140	130			
NY	1,060	1,090	1,070			
NC	1,080	900	870			
ND	2,560	2,550	1,950			
OH	3,850	3,300	3,350			
OK	320	370	390			
OR	60	60	60			
PA	1,430	1,350	1,350			

Newsroom

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AAA

Contact: Ellen Dougherty, (202) 690-8122
 Lance Honig, (202) 720-2127

2009 Crop Year is One for the Record Books, USDA Reports

WASHINGTON, Jan. 12, 2010 – U.S. farmers produced the largest corn and soybean crops on record in 2009, according to the *Crop Production 2009 Summary* released today by the U.S. Department of Agriculture’s National Agricultural Statistics Service (NASS).

County Estimates

- ▶ The NASS Annual County Estimates Program provides for the collection of crop data through cooperative agreements with each state
- ▶ Measures year to year change at the county level



County Estimates

- ▶ The county data are assembled starting with the state estimate and working back to the county
- ▶ NASS Field Offices set the annual county estimates for acreage, yield and production and submit them to headquarters for dissemination

County Estimates

- ▶ A release schedule provides the dates for when the data is available

County Data Release Schedule

When Does NASS Publish Annual County Data?

NASS begins preparing year-end county crop production estimates immediately after publishing the annual *Crop Production Summary* in January. State totals for some commodities are published in the monthly *Crop Production* report (April, May and June) and other reports. NASS expects data to be available in the [Quick Stats database](#) at 3 p.m. ET on the dates listed below. However, circumstances may sometimes prevent this. Therefore, final dates will be added to the "All States Available" column when all data are available.

2009 Release Schedule for Preliminary 2008 County Crop Estimates

Commodity	Anticipated Release	All States Available
Barley	February 20	February 20
Oats	February 20	February 20
Rye	February 20	February 20
All Wheat	February 25	February 27
Durum Wheat	February 25	February 27
Other Spring Wheat	February 25	February 27
Winter Wheat	February 25	February 27
Sorghum	March 2	March 2
Sunflower, All, Non-Oil & Oil	March 2	March 2
Corn for Grain & Silage	March 2	March 9
Soybeans	March 2	March 9
Canola	March 4	March 4
Dry Edible Peas	April 8	April 13
Lentils	April 8	April 13
All Hay, Alfalfa & Other	April 17	April 20
Forage - All, Alfalfa	April 17	April 17

County Estimates

- ▶ Data can be accessed using *Quick Stats* interactive statistical database from www.nass.usda.gov

The screenshot shows the USDA National Agricultural Statistics Service Quick Stats web application. The header includes the USDA logo and the text "United States Department of Agriculture National Agricultural Statistics Service". The page title is "Quick Stats". Navigation links include "Home", "Recent Statistics", "Feedback", and "Help". A "Status" box indicates "42 records" and a message says "Selected items filter to 42 of 25,626,938 total records. Press Get Data button below to retrieve records." The main content area is titled "Select Commodity" and contains three dropdown menus: "Sector" (with "CROPS" selected), "Group" (with "FIELD CROPS" selected), and "Commodity" (with "CORN" selected). Below these is a "Category" dropdown with "AREA PLANTED" selected. The "Data Item" section shows a list of corn-related data items, with "CORN - ACRES PLANTED" selected. The "Domain" dropdown has "TOTAL" selected. The "Select Location" section contains three dropdown menus: "Locale" (with "COUNTY" selected), "State" (with "PENNSYLVANIA" selected), and "District" (with "WEST CENTRAL" selected). The "County" dropdown has "WESTMORELAND" selected. The "Select Time" section has a "Year" dropdown with "2009" selected and a "Frequency" dropdown with "ANNUAL" selected. At the bottom are "Clear" and "Get Data" buttons.

The screenshot shows the "Quick Stats 2.0 Beta" announcement page. The title is "Quick Stats 2.0 Beta" with a "More" link. The text reads: "Quick Stats 2.0 is here! The latest version of NASS's interactive, online statistical database is now operational. Features include ad-hoc searches, searching by subject, and pre-defined queries for some of the most commonly requested data. Planned future enhancements include savable queries, additional historical data series, and links to information about specific surveys and reports. For the convenience of our customers, Quick Stats 1.0 will remain available to allow for a smooth transition. NASS welcomes your feedback as we continue to provide you with new and improved statistical tools and information. [Click here to provide feedback.](#) Please make a selection from the options below." Below the text are two red boxes. The first box is titled "Build Your Own Query" and contains the text "Obtain agricultural statistics for one or more" followed by a bulleted list: "commodities", "locations", and "years". There is a "Go" button at the bottom of this box. The second box is titled "Data By Subject" and contains the text "Obtain an agricultural statistics profile for a particular subject area or commodity". There is a "Go" button at the bottom of this box.

County Estimates

- ▶ County maps can be accessed by selecting *Charts and Maps-County Maps* from www.nass.usda.gov

USDA United States Department of Agriculture
National Agricultural Statistics Service

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Headlines

- [Farm Production Expenses Fall in 2009](#)
- [NASS to Release Agricultural Safety Reports](#)
- [2009 Chemical Use Data for Fruit](#)
- [U.S. Farmers Plant Record-High Soybean Crop](#)
- [NASS Seeks Public Input on Energy Program](#)
- [Census Results Available Online](#)
- [NASS Data and Freedom of Information Act Requests](#)

USDA United States Department of Agriculture
National Agricultural Statistics Service

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You are here: Home / Charts and Maps / Crops County

Charts and Maps

County Maps

Barley	Rye
Beans, Dry Edible	Snap Beans
Canola	Sorghum
Corn	Soybeans
Corn, Sweet	Sugarbeets
Cotton, Pima	Sugarcane
Cotton, Upland	Sunflowers
Flaxseed	Sweet Potatoes
Hay, Alfalfa	Tobacco, Burley
Hay, All	Tobacco, Flue-cured
Hay, Other	Tomatoes
Oats	Wheat, All
Peas, Green	Wheat, Durum
Peanuts	Wheat, Spring
Rice	Wheat, Winter

Also See

- [Frequently Asked Questions](#)
- [NASS Contacts](#)
- [Estimating Programs](#)
- [Query NASS Data from a Data Base](#)

Geo Spatial Data

- [Vegetation Condition Images](#)
- [Cropland Data Layer](#)
Image Gallery available for these states:
Arkansas, Illinois, Indiana, Iowa, N. Dakota, Mississippi, Missouri, Nebraska, Wisconsin
- [Land Use Strata for Selected States](#)

Also See

- [Crops County Data Files](#)

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Browse NASS by Subject

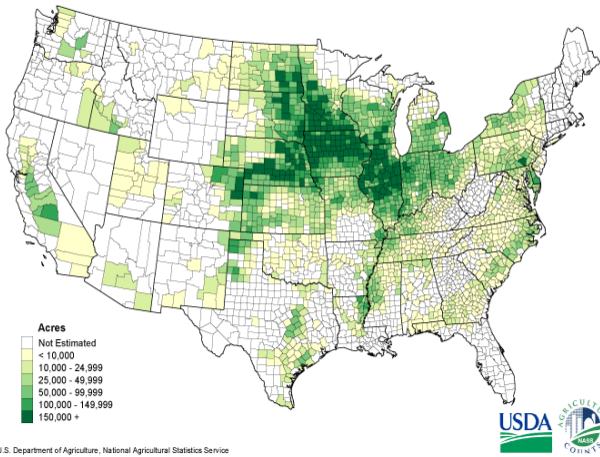
- ▶ Crops and Plants
- ▶ Demographics
- ▶ Economics
- ▶ Environmental
- ▶ Livestock and Animals
- ▶ Charts and Maps
- ▶ Research and Science
- ▶ Education and Outreach

Statistics by State

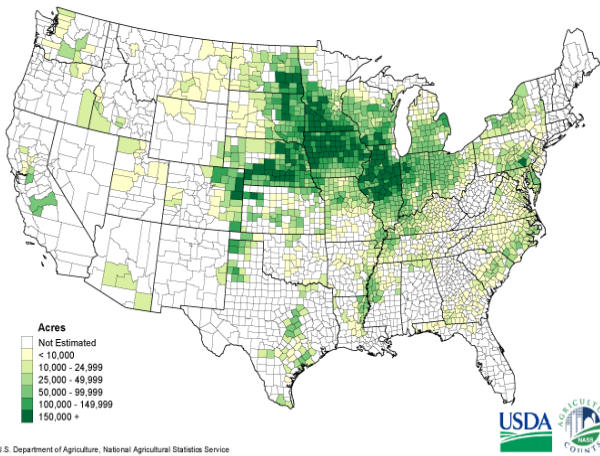
Planted Acres



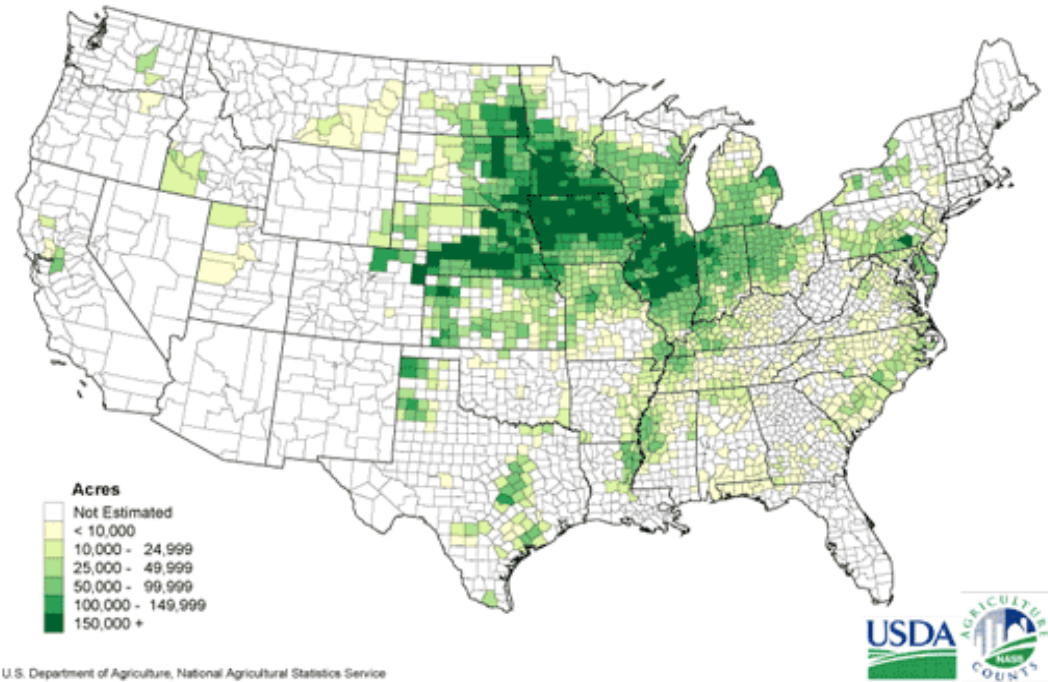
Corn for All Purposes 2007
Planted Acres by County



Corn for All Purposes 2008
Planted Acres by County

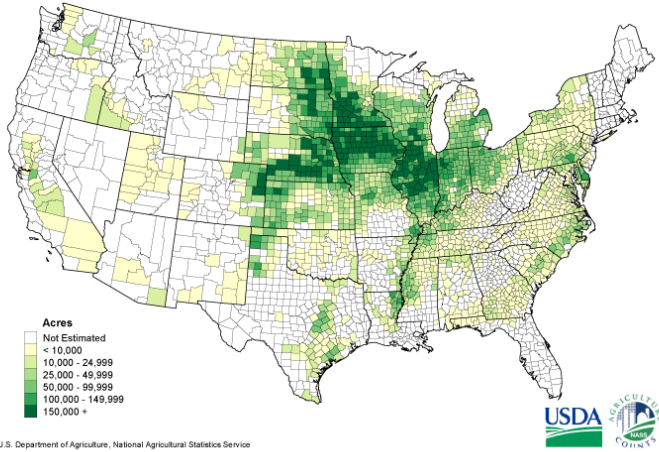


Corn for All Purposes 2009
Planted Acres by County
for Selected States

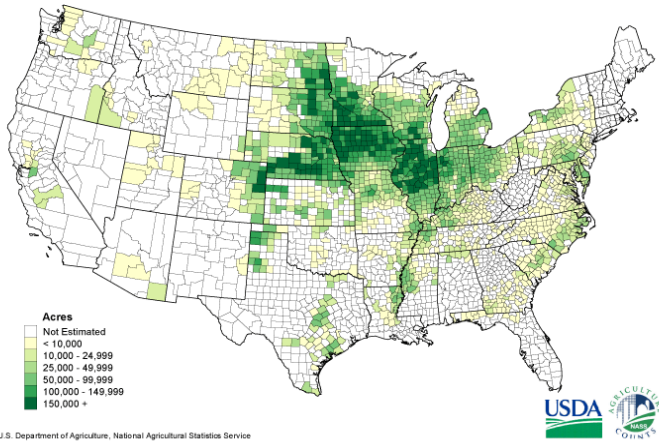


Harvested Acres

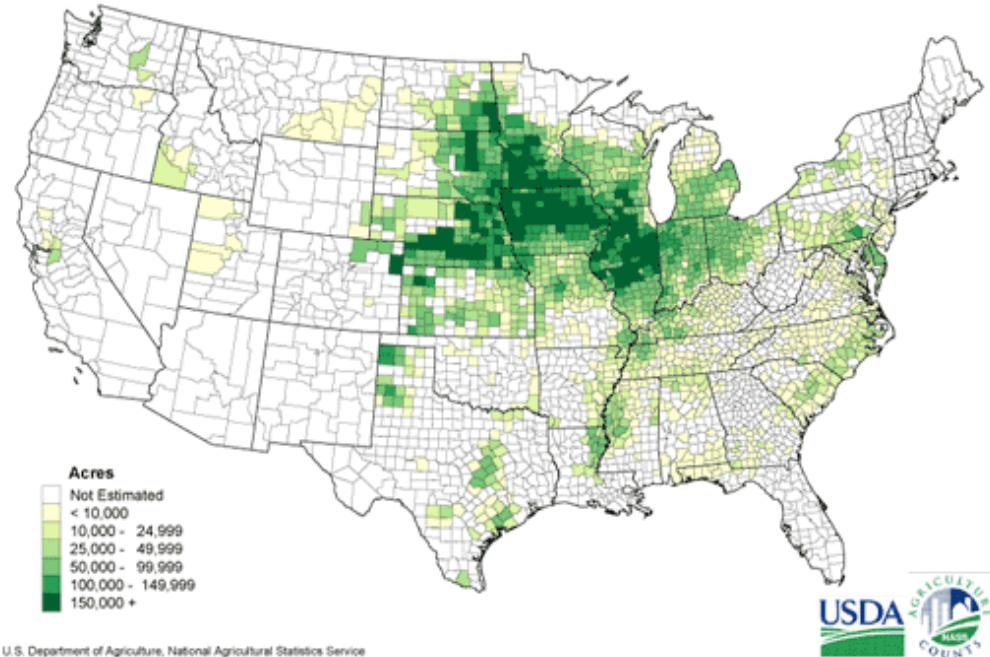
Corn for Grain 2007
Harvested Acres by County



Corn for Grain 2008
Harvested Acres by County



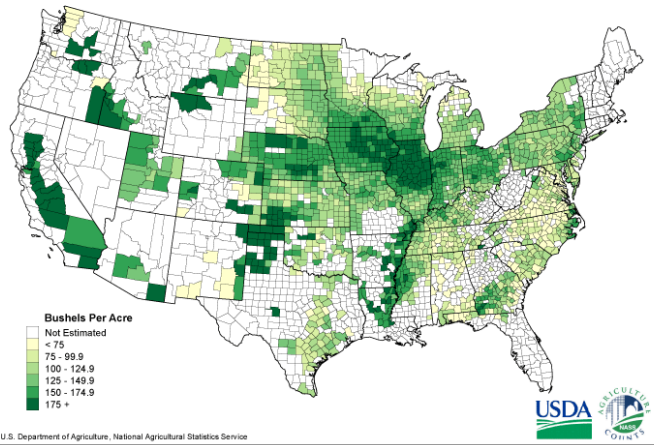
Corn for Grain 2009
Harvested Acres by County
for Selected States



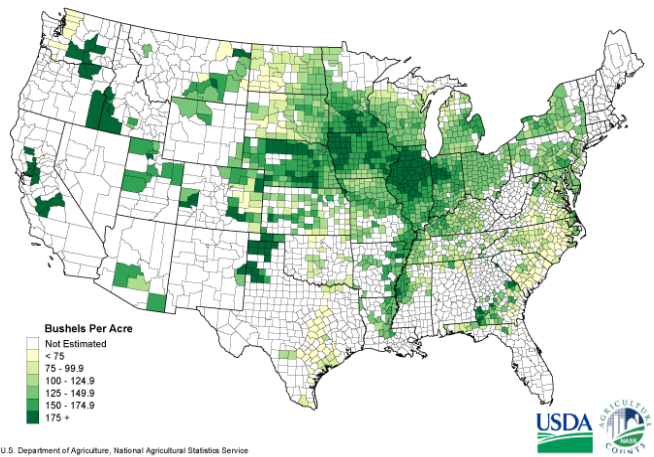
Yield Per Harvested Acre



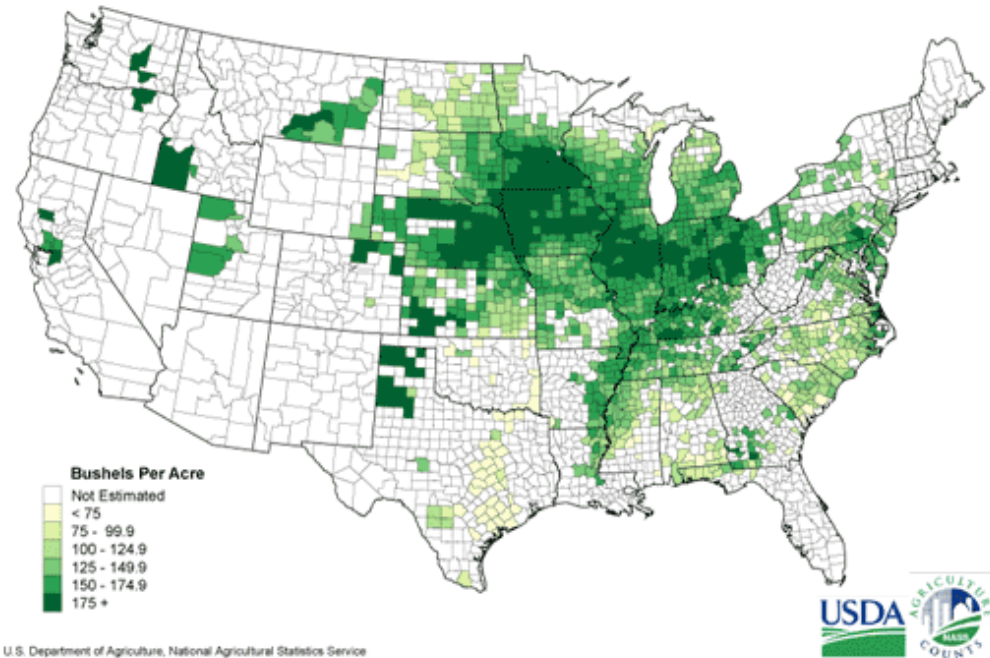
Corn for Grain 2007
Yield Per Harvested Acre by County



Corn for Grain 2008
Yield Per Harvested Acre by County



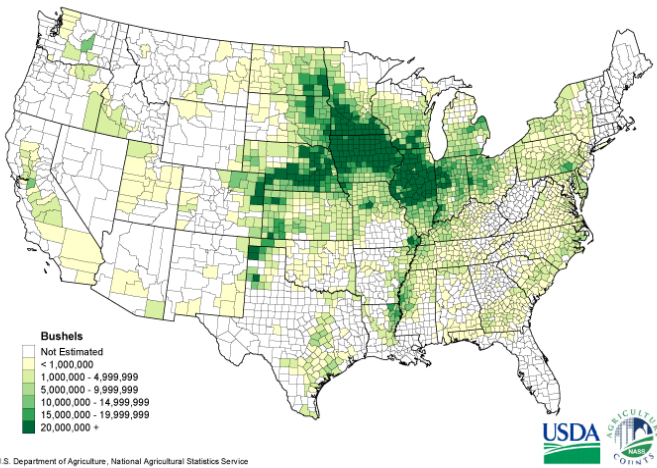
Corn for Grain 2009
Yield Per Harvested Acre by County
for Selected States



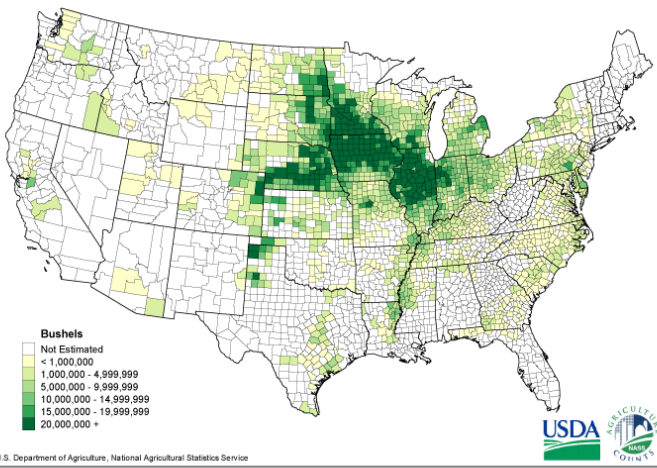
Production



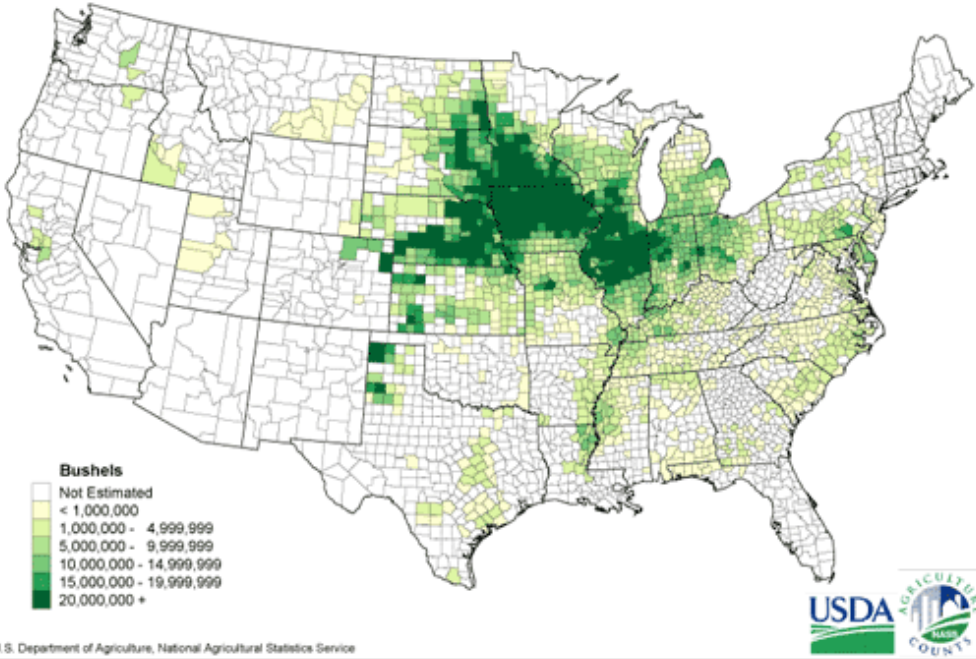
**Corn for Grain 2007
Production by County**



**Corn for Grain 2008
Production by County**



**Corn for Grain 2009
Production by County
for Selected States**



County Estimates

- ▶ Ethanol maps showing US and State level corn production with ethanol plant locations can be accessed by selecting *Charts and Maps–Ethanol Plants*

USDA United States Department of Agriculture
National Agricultural Statistics Service

research data census

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Charts and Maps

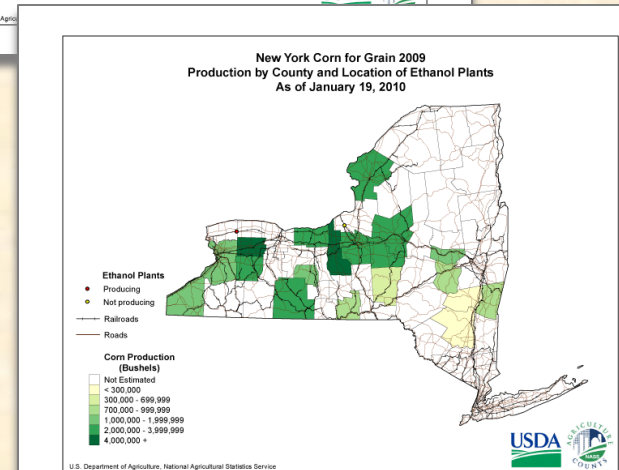
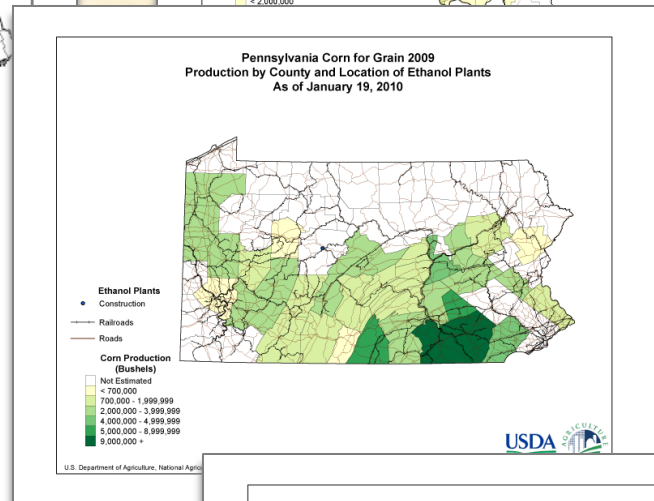
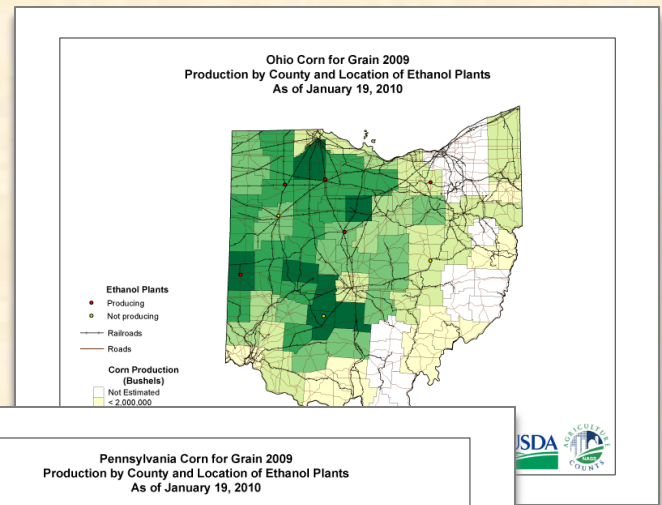
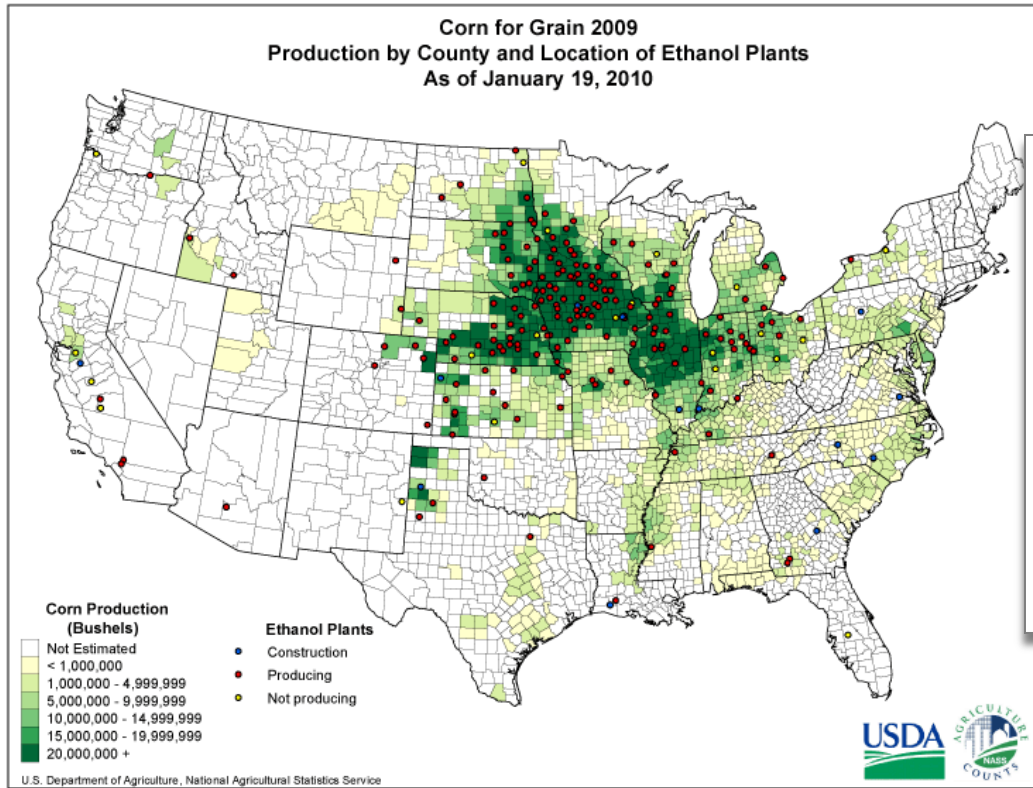
Corn Production & Ethanol Plant Locations

Graphics Interchange Format (GIF Files)
PDF also available - recommended for printing

Select a State below or [U.S. Map](#)

Arizona	Nebraska
California	New Mexico
Colorado	New York
Florida	North Carolina
Georgia	North Dakota
Idaho	Ohio
Illinois	Oklahoma
Indiana	Oregon
Iowa	Pennsylvania
Kansas	South Dakota
Kentucky	Tennessee
Louisiana	Texas
Michigan	Virginia

Ethanol Plants and Corn Production by County





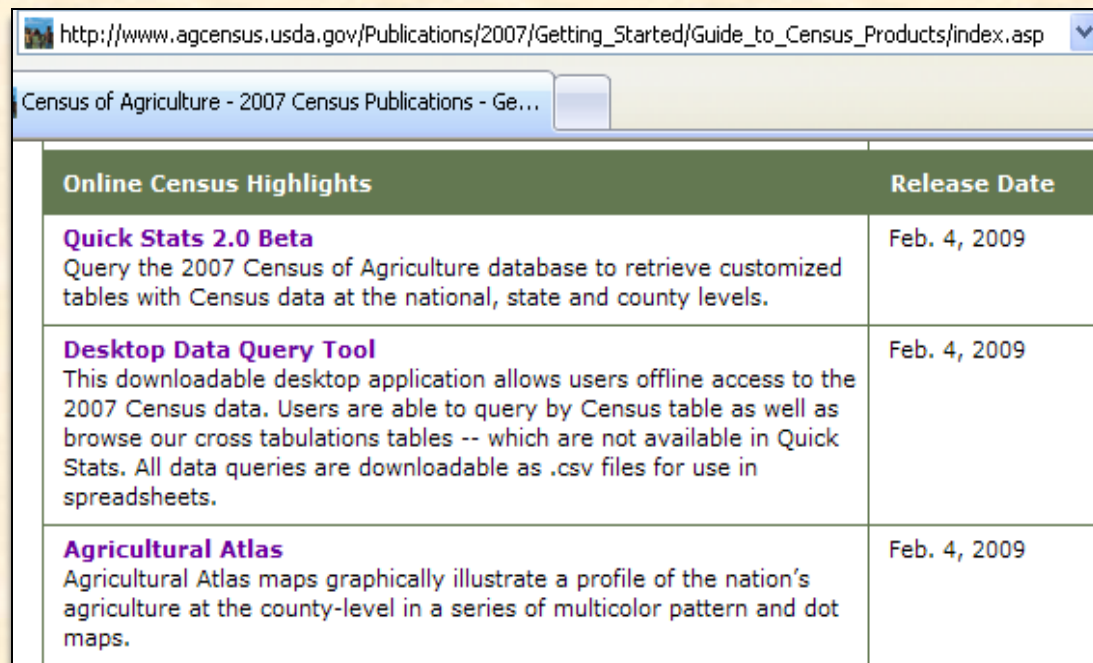
2007 Census of Agriculture

- ▶ Census of Agriculture is conducted every 5 years
- ▶ A complete accounting of crops and livestock on all farms
- ▶ Collects information on operator characteristics, demographics, income and expenses

- ▶ The 2007 Census of Agriculture Guide to Census Products can be accessed by selecting 2007 Census from www.agcensus.usda.gov

The screenshot shows the website interface for the 2007 Census of Agriculture. On the left is a navigation sidebar with sections: 'Search NASS' (including a Google Custom Search box and a 'Census of Ag' dropdown), 'Census Years' (with links for 2007, 2002, 1997, 1992, and Historical Years), and 'Census by State' (with a 'Select a State' dropdown). The main content area is titled '2007 Census Publications' and includes a breadcrumb trail 'You are here: Home / Publications / 2007'. It features three main sections: 'Getting Started' with a brief introduction and a 'More' link; '2007 Census Results' with sub-sections for 'Full 2007 Census Report' and 'Online Highlights', each with a 'More' link; and 'Guide to Census Products' with a 'More' link. A large '2007 CENSUS OF AGRICULTURE' logo is positioned on the right side of the main content area.

- ▶ Users can view or download census data online using the *Quick Stats* database
- ▶ Users can download *Desktop Query Tool* to their desktop
- ▶ Users can view, print or download *static maps*



The screenshot shows a web browser window with the URL http://www.agcensus.usda.gov/Publications/2007/Getting_Started/Guide_to_Census_Products/index.asp. The browser title is "Census of Agriculture - 2007 Census Publications - Ge...". The main content is a table with the following data:

Online Census Highlights	Release Date
Quick Stats 2.0 Beta Query the 2007 Census of Agriculture database to retrieve customized tables with Census data at the national, state and county levels.	Feb. 4, 2009
Desktop Data Query Tool This downloadable desktop application allows users offline access to the 2007 Census data. Users are able to query by Census table as well as browse our cross tabulations tables -- which are not available in Quick Stats. All data queries are downloadable as .csv files for use in spreadsheets.	Feb. 4, 2009
Agricultural Atlas Agricultural Atlas maps graphically illustrate a profile of the nation's agriculture at the county-level in a series of multicolor pattern and dot maps.	Feb. 4, 2009


▶ 2007 Census data can be accessed using the Quick Stats database


Quick Stats 2.0 Beta More >

Quick Stats 2.0 is here! The latest version of NASS's interactive, online statistical database is now operational. Features include ad-hoc searches, searching by subject, and pre-defined queries for some of the most commonly requested data. Planned future enhancements include savable queries, additional historical data series, and links to information about specific surveys and reports. For the convenience of our customers, Quick Stats 1.0 will remain available to allow for a smooth transition. NASS welcomes your feedback as we continue to provide you with new and improved statistical tools and information. [Click here to provide feedback.](#)

Please make a selection from the options below.

<p>Build Your Own Query</p> <p>Obtain agricultural statistics for <u>one or more</u></p> <ul style="list-style-type: none"> • commodities • locations • years <p style="text-align: right;"><input type="button" value="Go"/></p>	<p>Data By Subject</p> <p>Obtain an agricultural statistics profile for a particular subject area or commodity</p> <p style="text-align: right;"><input type="button" value="Go"/></p>
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 United States Department of Agriculture
 National Agricultural Statistics Service



Quick Stats Home Recent Statistics Feedback Help

Navigation History: Keyword Search [Hints](#)

Status: 201 records.

Selected items filter to 201 of 25,626,938 total records. Press Get Data button below to retrieve records.

sector->Group->Commodity->Category->Data Item->Domain->Locale->State->County

Select Commodity

<p>Sector:</p> <ul style="list-style-type: none"> ANIMALS & PRODUCTS CROPS DEMOGRAPHICS ECONOMICS ENVIRONMENTAL 	<p>Group:</p> <ul style="list-style-type: none"> COMMODITIES EXPENSES FARMS, LAND & ASSETS FERTILIZER & CHEMICALS INCOME LABOR PRICES PAID 	<p>Commodity:</p> <ul style="list-style-type: none"> DEPRECIATION FEED FERTILIZER & CHEMICAL TOTALS FERTILIZER, COMMERCIAL FUELS TOTAL INTEREST LABOR PRODUCTION EXPENSE TOTALS RENT
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Category:

- EXPENSE**

Data Item:

- PRODUCTION EXPENSE TOTALS
- PRODUCTION EXPENSE TOTALS - MEASURED IN \$ / OPERATION**
- PRODUCTION EXPENSE TOTALS - MEASURED IN OPERATIONS
- PRODUCTION EXPENSE TOTALS, PAID BY LANDLORD
- PRODUCTION EXPENSE TOTALS, PAID BY LANDLORD - MEASURED IN OPERATIONS
- PRODUCTION EXPENSE TOTALS, PAID BY LANDLORD - MEASURED IN PCT OF TOTAL PRODUCTION EXPENSES

Domain:

- AREA IRRIGATED
- HARVESTED CROPLAND IRRIGATED
- TOTAL**

Select Location

<p>Locale:</p> <ul style="list-style-type: none"> COUNTY NATIONAL STATE 	<p>State:</p> <ul style="list-style-type: none"> OKLAHOMA OREGON PENNSYLVANIA RHODE ISLAND SOUTH CAROLINA SOUTH DAKOTA TENNESSEE TEXAS UTAH 	<p>District:</p> <ul style="list-style-type: none"> CENTRAL EAST CENTRAL NORTH CENTRAL NORTHEASTERN NORTHWESTERN SOUTH CENTRAL SOUTHEASTERN SOUTHWESTERN WEST CENTRAL 	<p>County:</p> <ul style="list-style-type: none"> TIGONA UNION VENANGO WARREN WASHINGTON WAYNE WESTMORELAND WYOMING YORK
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Select Time

<p>Year:</p> <ul style="list-style-type: none"> 2007 2002 1997 	<p>Frequency:</p> <ul style="list-style-type: none"> ANNUAL
---	--

- ▶ The Desktop Data Query Tool allows users offline access to the 2007 data
- ▶ Users are able to query by Census table
- ▶ Data can be downloaded as csv files for use in a spreadsheet or in a GIS

The screenshot shows the USDA Desktop Data Query Tool interface. At the top, it features the USDA logo and the text "United States Department of Agriculture The Census of Agriculture National Agricultural Statistics Service". Below this is a "Select Data Type" section with radio buttons for "US - State Data", "State - County Data", "Puerto Rico - Commonwealth Data", and "Puerto Rico - Municipio Data". The "State - County Data" option is selected. A "Select Table" dropdown menu is set to "Table 1. County Summary Highlights: 2007". Below this is a "Select Data Item(s)" section with radio buttons for "As In Report" and "Alpha Order". A list of data items is shown, with "Farms (number)" selected. A note indicates that the full text of the last data item is shown below the list. The "Select Geographical Location" section has two panes: "Available Selections" and "Geographical Locations Selected". The "Available Selections" pane lists options like "All States, All Counties, United State" and "United States". The "Geographical Locations Selected" pane shows "All States, All Counties, United States". At the bottom, there are buttons for "Exit", "Get Data", "Table Notes", "See Text", "Index", and "Help (F1)".

- ▶ 250 Static Atlas Maps are available in the following areas
 - Crops and Plants
 - Economics
 - Farms
 - Livestock and Animals
 - Operators

Online Census Highlights	Release Date
Quick Stats 2.0 Beta Query the 2007 Census of Agriculture database to retrieve customized tables with Census data at the national, state, and county levels. Counts of farms at the ZIP Code level are now available for selected statistics..	Feb. 4, 2009
Desktop Data Query Tool 1.02 This downloadable desktop application allows users offline access to the 2007 Census data. Users are able to query by Census table as well as browse our cross tabulations tables -- which are not available in Quick Stats. All data queries are downloadable as .csv files for use in spreadsheets.	Feb. 4, 2009
Agricultural Atlas Agricultural Atlas maps graphically illustrate a profile of the nation's agriculture at the county-level in a series of multicolor pattern and dot maps.	Feb. 4, 2009
Fact Sheets Summaries highlighting key topics from the 2007 Census of Agriculture. Fact sheets combine narrative and data to illustrate current trends among U.S. farmers and agricultural operations.	

2007 Census Publications

Ag Atlas Maps

Ag Atlas Maps are available in the following areas for the 2007 Census of Agriculture:

[Crops and Plants](#)
[Economics](#)
[Farms](#)
[Livestock and Animals](#)
[Operators](#)

How the Maps Were Made

Geographic information system (GIS) and desktop publishing technologies were used in the production of maps for this atlas. NASS developed an automated map production system to generate digital map files based on statistical data from the 2007 and 2002 Censuses of Agriculture. The system utilized agricultural statistical data files, geographic area boundary files, land use/cover boundary files, map parameter data files, and customized GIS and statistical software to produce thematic choropleth and dot-density maps. The customized software performed statistical calculations to class the data into categories and to allocate the number of dots for a geographic area. The software also executed other cartographic functions including, assigning symbology to represent the data; randomly placing dots; creating and positioning map titles, legends and notes; and outputting individual maps to digital image files. Colors for the maps were selected with the assistance of [ColorBrewer](#), an online tool for selecting map color schemes. The color schemes were developed by Dr. Cynthia A. Brewer at Pennsylvania State University.

The U.S. Census Bureau provided a generalized county boundary file, urbanized areas boundary file, land use/cover boundary file (originator - USGS), and county-level land area/perimeter data file. NASS modified the county boundary file to show the county-level geographic areas for which agriculture census statistics are reported. The statistical data and geographic areas were identified by Federal Information Processing Standards (FIPS) codes that allowed for a 1-to-1 correspondence between the data and the geographic area. NASS updated the land use/cover boundary file with generalized urbanized areas. The continental U.S. and Hawaii were mapped at a scale of 1:21,000,000 and Alaska used a map scale of 1:63,000,000. The maps were projected using Albers Equal Area Conic projection.

Ag Atlas Maps, Crops and Plants

Note: These documents are in Adobe Acrobat's Portable Document Format (PDF). If you need the Acrobat Reader, it is available for free from the [Adobe web site](#).

[Click here for more information on how these maps were created.](#)

Map Number	Field Crops Harvested	Format	
07-M163	Corn for Grain, Harvested Acres: 2007	PDF	GIF
07-M164	Irrigated Corn for Grain, Harvested Acres: 2007	PDF	GIF
07-M165	Acres of Corn Harvested for Grain as Percent of Harvested Cropland Acreage: 2007	PDF	GIF
07-M166	Corn Harvested for Grain - Change in Acreage: 2002 to 2007	PDF	GIF
07-M167	Corn for Silage or Greenchop, Harvested Acres: 2007	PDF	GIF
07-M168	Sorghum for Grain, Harvested Acres: 2007	PDF	GIF
07-M169	Irrigated Sorghum		
07-M170	Acres of Sorghum Harvested for Grain as Percent of Harvested Cropland Acreage: 2007		
07-M171	Sorghum Harvested for Grain - Change in Acreage: 2002 to 2007		
07-M172	All Wheat for Grain, Harvested Acres: 2007		
07-M173	Irrigated All Wheat for Grain, Harvested Acres: 2007		
07-M174	Acres of All Wheat for Grain as Percent of Harvested Cropland Acreage: 2007		
07-M175	All Wheat for Grain - Change in Acreage: 2002 to 2007		
07-M176	Barley for Grain, Harvested Acres: 2007		
07-M177	Barley Harvested for Grain - Change in Acreage: 2002 to 2007		
07-M178	Oats for Grain, Harvested Acres: 2007		

Ag Atlas Maps, Economics

Note: These documents are in Adobe Acrobat's Portable Document Format (PDF). If you need the Acrobat Reader, it is available for free from the [Adobe web site](#).

[Click here for more information on how these maps were created.](#)

Map Number	Farms by Size	Format	
07-M009	Percent of Farms with Sales of Less Than \$10,000: 2007	PDF	GIF
07-M010	Percent of Farms with Sales of \$10,000 to \$24,999: 2007		
07-M011	Percent of Farms with Sales of \$25,000 to \$49,999: 2007		
07-M012	Market Value of Agricultural Products Sold: 2007		
07-M013	Average Value of Agricultural Products Sold: 2007		
07-M014	Value of Crops Sold: 2007		
07-M015	Value of Crops Sold as Percent of Agricultural Products Sold: 2007		
07-M016	Average Value of Crops Sold per Acre: 2007		
07-M017	Value of Grains, Oilseeds, Dry Beans, and Peas: 2007		
07-M018	Value of Cotton and Cottonseed Sales: 2007		
07-M019	Value of Tobacco Sold as Percent of Agricultural Products Sold: 2007		

Ag Atlas Maps, Farms

Note: These documents are in Adobe Acrobat's Portable Document Format (PDF). If you need the Acrobat Reader, it is available for free from the [Adobe web site](#).

[Click here for more information on how these maps were created.](#)

Map Number	Farms	Format	
07-M001	Number of Farms: 2007	PDF	GIF
07-M002	Change in Number of Farms: 2002 to 2007	PDF	GIF
07-M251	Percent of Farms with Internet Access	PDF	GIF
07-M252	Percent of Farms with High-Speed Internet Access	PDF	GIF
Map Number	Farms by Size	Format	
07-M003	Average Size of Farms in Acres: 2007	PDF	GIF
07-M004	Change in Number of Farms with Less Than 50 Acres: 2002 to 2007	PDF	GIF
07-M005	Change in Number of Farms with 50 to 179 Acres: 2002 to 2007	PDF	GIF
07-M006	Change in Number of Farms with 180 to 499 Acres: 2002 to 2007	PDF	GIF
07-M007	Change in Number of Farms with 500 to 1,999 Acres: 2002 to 2007	PDF	GIF
07-M008	Change in Number of Farms with 2,000 Acres or More: 2002 to 2007	PDF	GIF
Map Number	Land in Farms and Land Use	Format	
07-M077	Acres of Land in Farms: 2007	PDF	GIF
07-M078	Land in Farms - Change in Acreage: 2002 to 2007	PDF	GIF
07-M079	Acres of Land in Farms as Percent of Land Area in Acres: 2007	PDF	GIF

Ag Atlas Maps, Livestock and Animals

Note: These documents are in Adobe Acrobat's Portable Document Format (PDF). If you need the Acrobat Reader, it is available for free from the [Adobe web site](#).

[Click here for more information on how these maps were created.](#)

Map Number	Livestock, Poultry, and Other Animals	Format	
07-M134	Cattle and Calves - Inventory: 2007	PDF	GIF
07-M135	Cattle and Calves - Change in Inventory: 2002 to 2007	PDF	GIF
07-M136	Average Number of Cattle and Calves per 100 Acres of All Land in Farms: 2007	PDF	GIF
07-M137	Number of Farms with 200 or More Cattle and Calves: 2007	PDF	GIF
07-M138	Cows and Heifers That Had Calved - Inventory: 2007	PDF	GIF
07-M139	Cows and Heifers That Had Calved as Percent of Cattle and Calves: 2007	PDF	GIF
07-M140	Milk Cows - Inventory: 2007	PDF	GIF
07-M141	Milk Cows - Change in Inventory: 2002 to 2007	PDF	GIF
07-M142	Milk Cows as Percent of All Cattle and Calves: 2007	PDF	GIF
07-M143	Number of Farms with 20 or More Milk Cows: 2007		
07-M144	Milk Cows as Percent of All Cattle and Calves: 2007		
07-M145	Beef Cows - Inventory: 2007		
07-M146	Beef Cows - Change in Inventory: 2002 to 2007		
07-M147	Other Cattle as Percent of All Cattle and Calves: 2007		

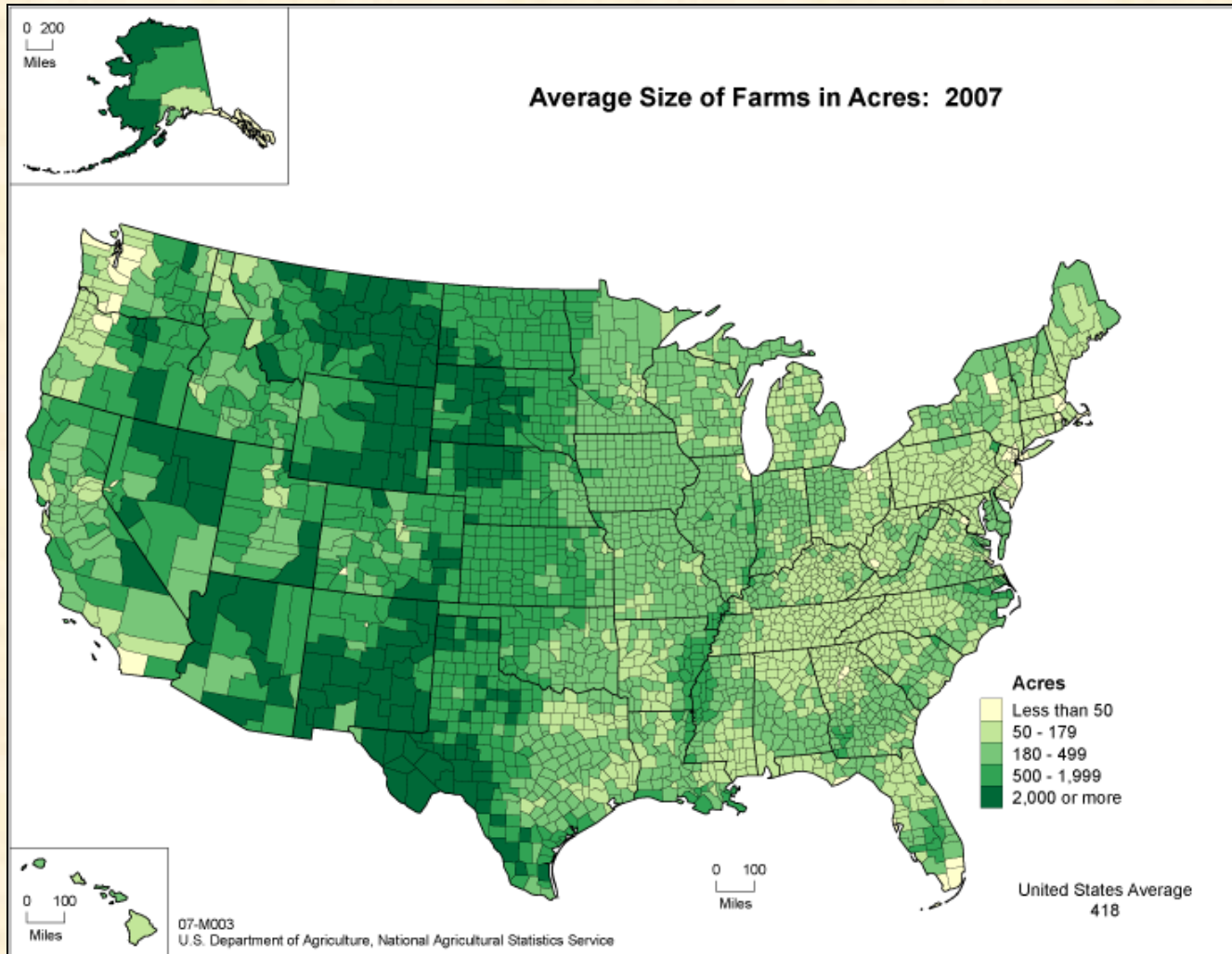
Ag Atlas Maps, Operators

Note: These documents are in Adobe Acrobat's Portable Document Format (PDF). If you need the Acrobat Reader, it is available for free from the [Adobe web site](#).

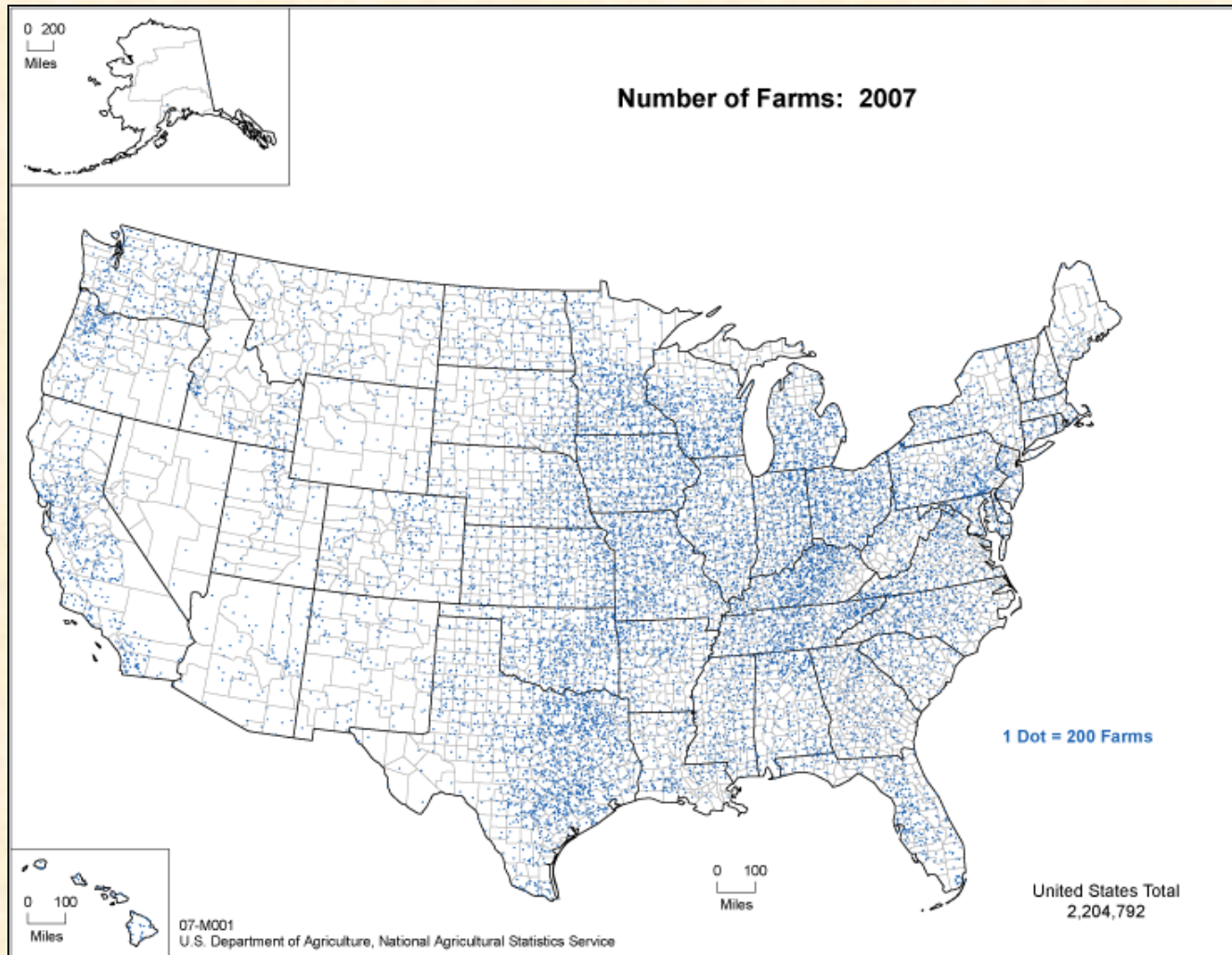
[Click here for more information on how these maps were created.](#)

Map Number	Hired Farm Labor	Format	
07-M075	Hired Farm Workers Working Less Than 150 Days: 2007	PDF	GIF
07-M076	Hired Farm Workers Working 150 Days or More: 2007	PDF	GIF
Map Number	Tenure of Farm Operators and Farm Operations	Format	
07-M111	Percent of Farms Operated by Full Owners: 2007	PDF	GIF
07-M112	Percent of Land in Farms Operated by Full Owners: 2007	PDF	GIF
07-M113	Percent of Farms Operated by Part Owners: 2007	PDF	GIF
07-M114	Percent of Land in Farms Operated by Part Owners: 2007	PDF	GIF
07-M115	Percent of Farms Operated by Tenants: 2007	PDF	GIF
07-M116	Percent of Land in Farms Operated by Tenants: 2007	PDF	GIF
07-M117	Percent of Land in Farms Rented or Leased: 2007	PDF	GIF
Map Number	Farms by Type of Organization	Format	
07-M118	Percent of Farms Operated by Family or Individual: 2007	PDF	GIF
07-M119	Percent of Farms Operated by Partnership: 2007	PDF	GIF
07-M120	Percent of Farms Operated by Corporation: 2007	PDF	GIF
Map Number	Principal Occupation of Operator	Format	
07-M121	Percent of Principal Farm Operators Reporting Primary Occupation	PDF	GIF

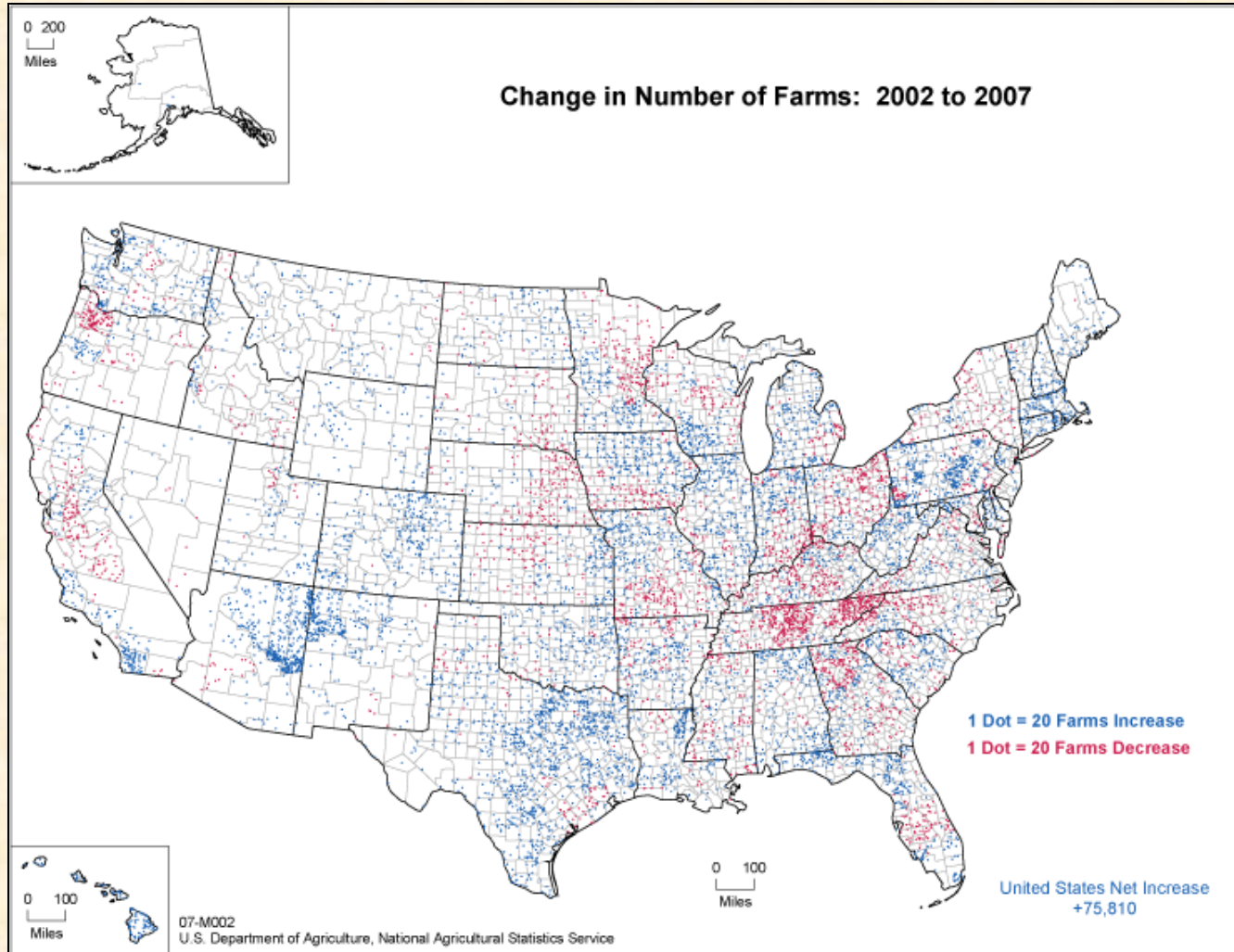
Choropleth (shaded) Maps



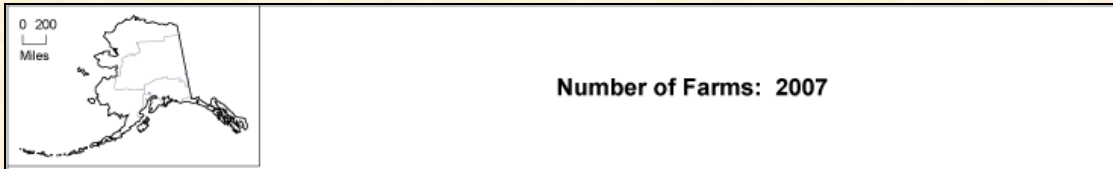
Dot Density Maps



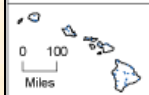
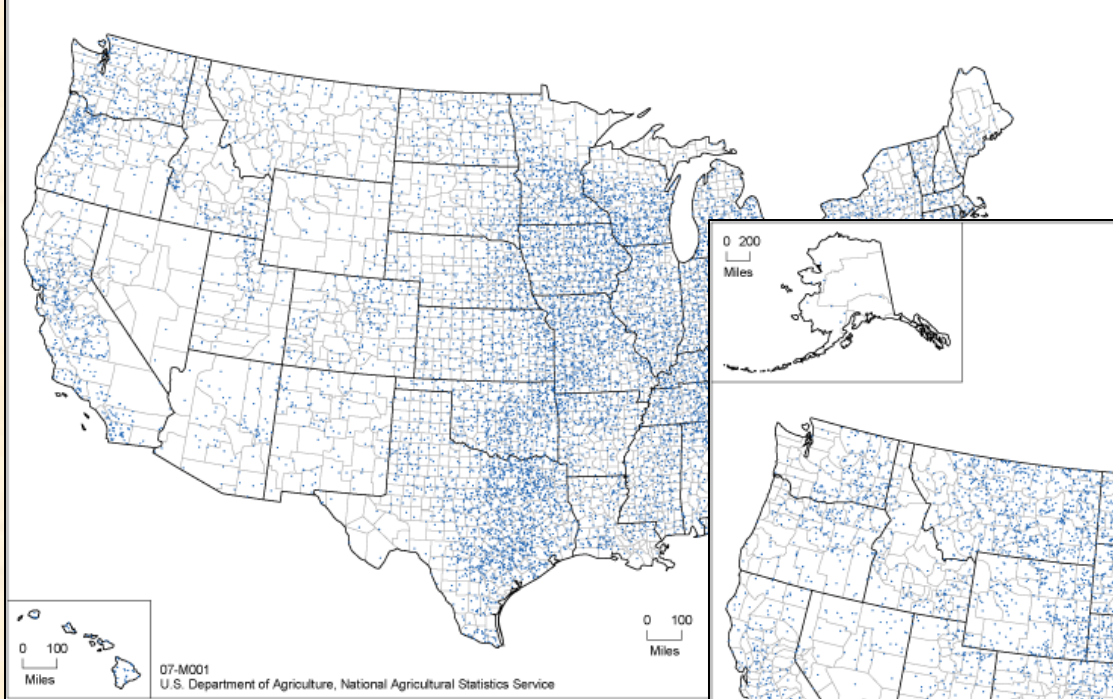
Dot Density Change Maps



Farms



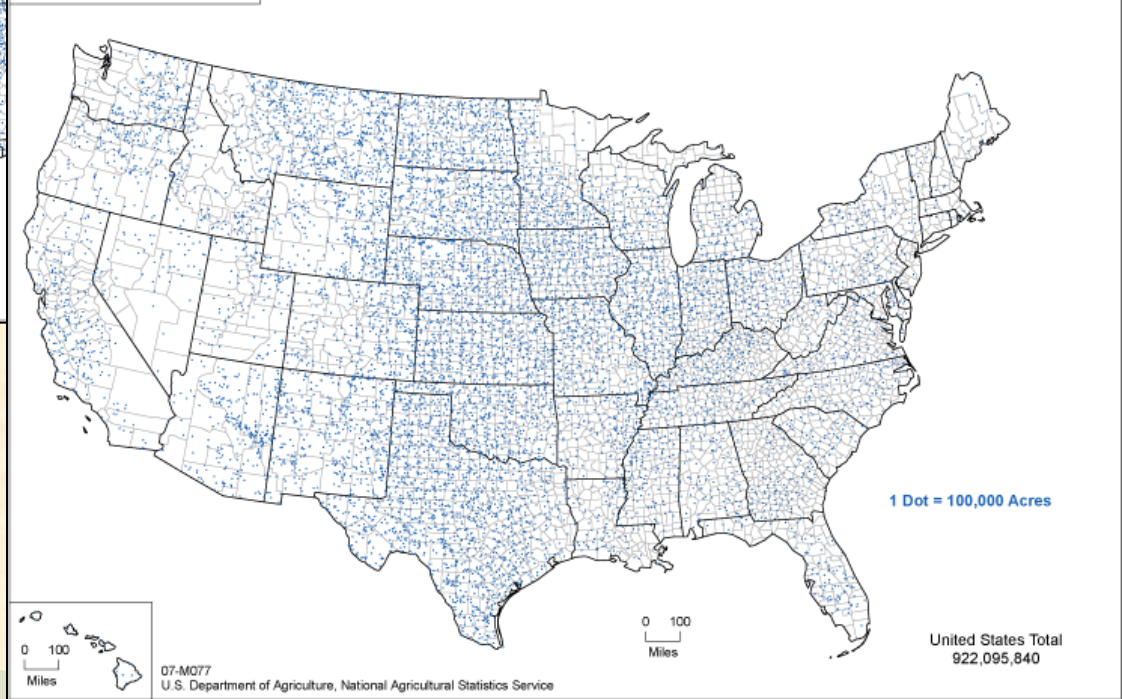
Number of Farms: 2007



07-M001
U.S. Department of Agriculture, National Agricultural Statistics Service

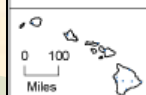


Acres of Land in Farms: 2007



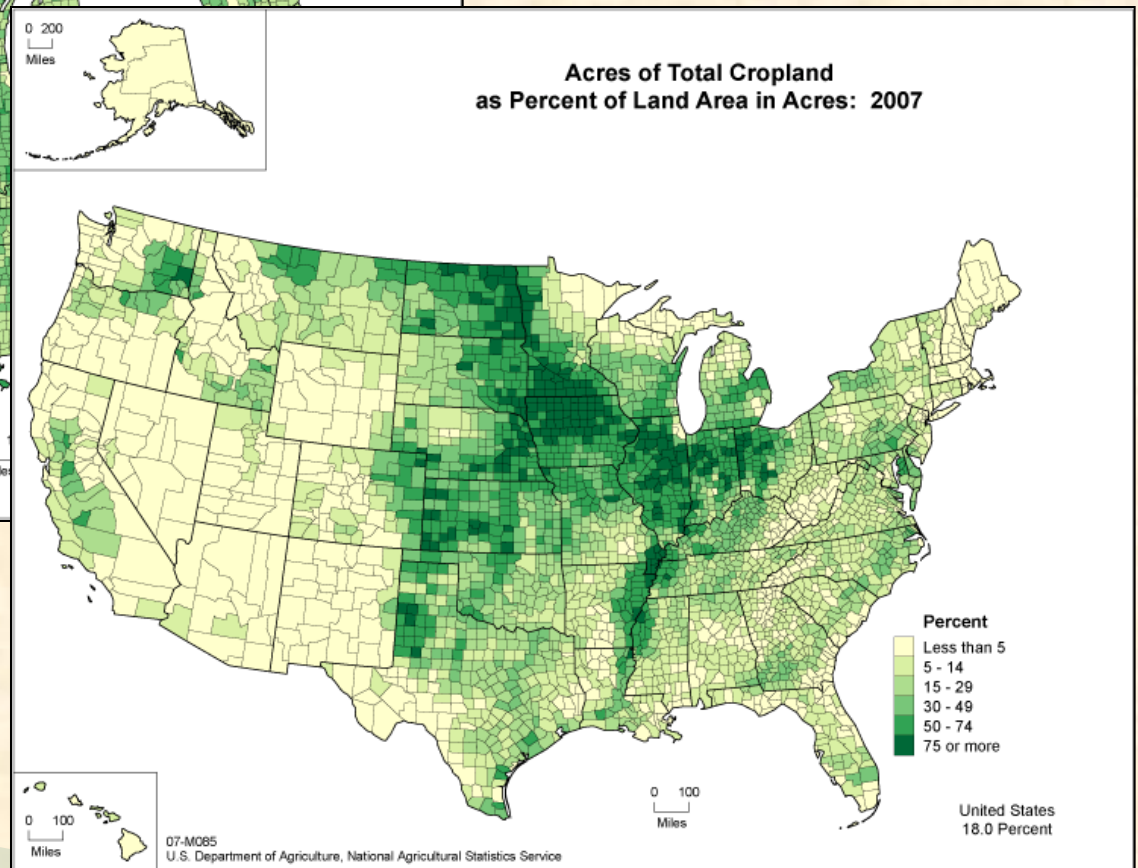
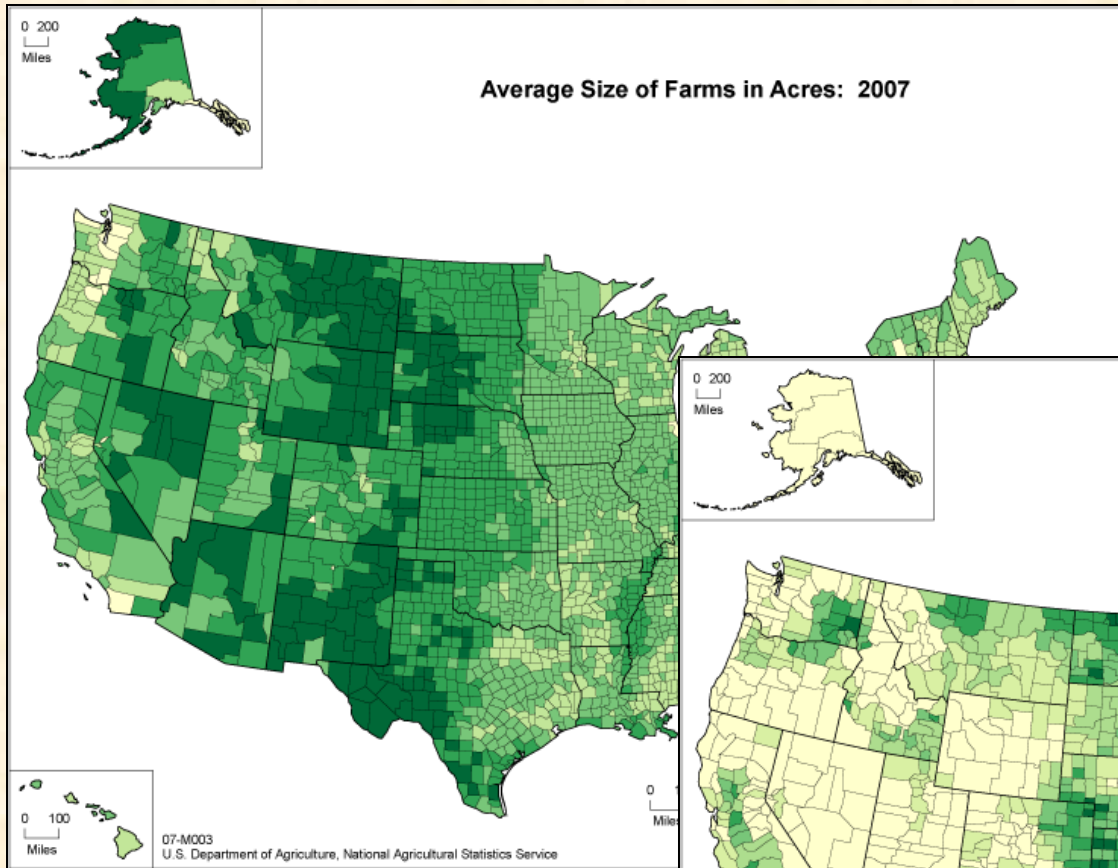
1 Dot = 100,000 Acres

United States Total
922,095,840



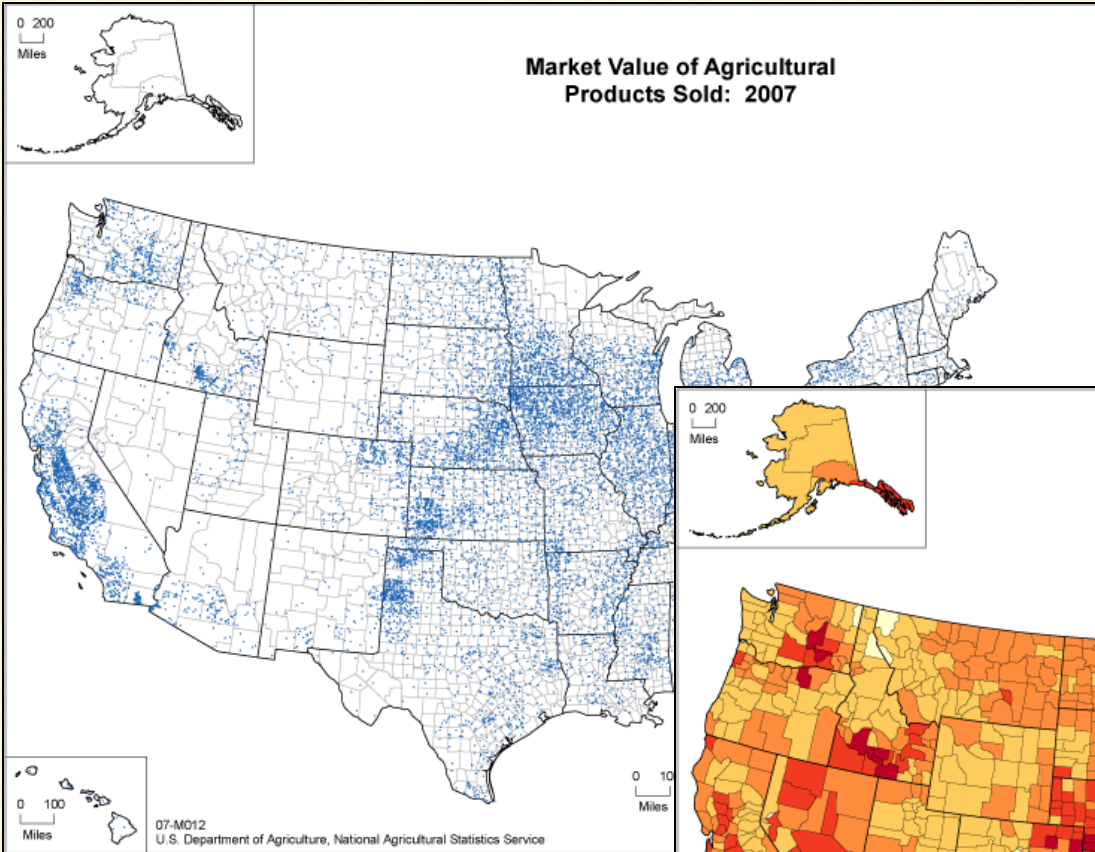
07-M077
U.S. Department of Agriculture, National Agricultural Statistics Service

Farms

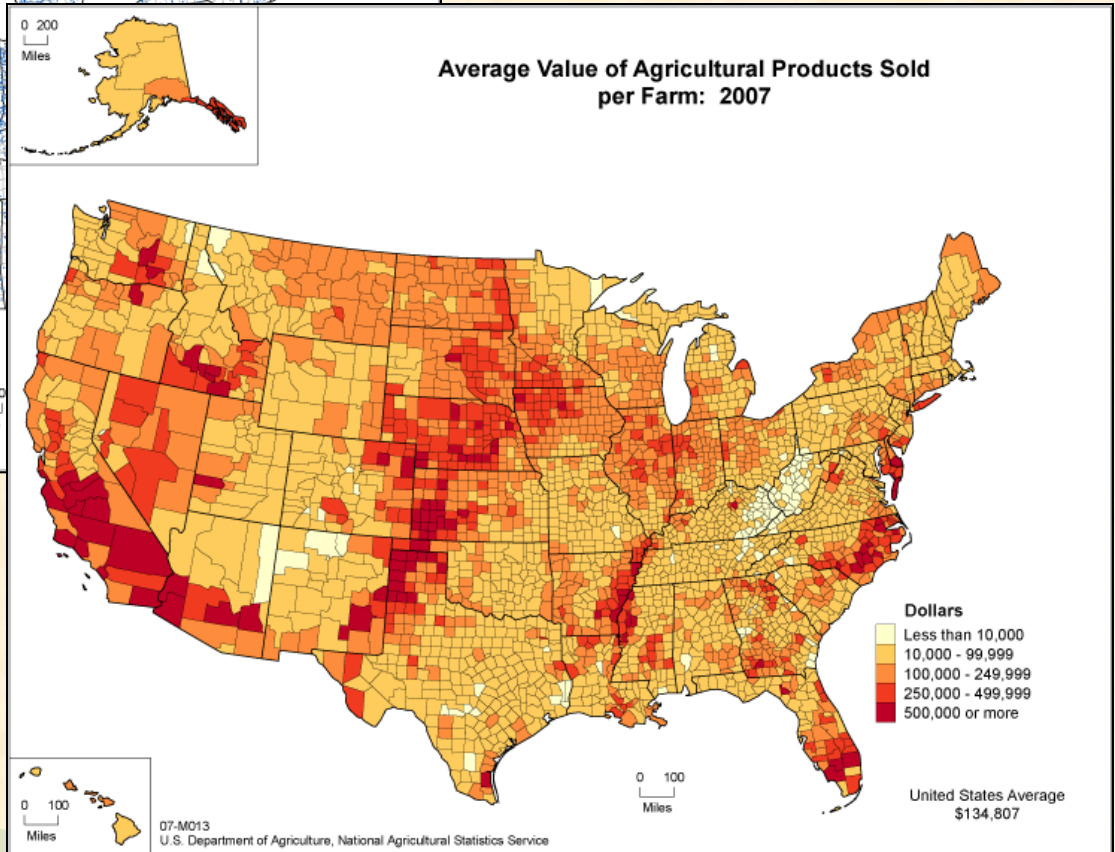


Economics

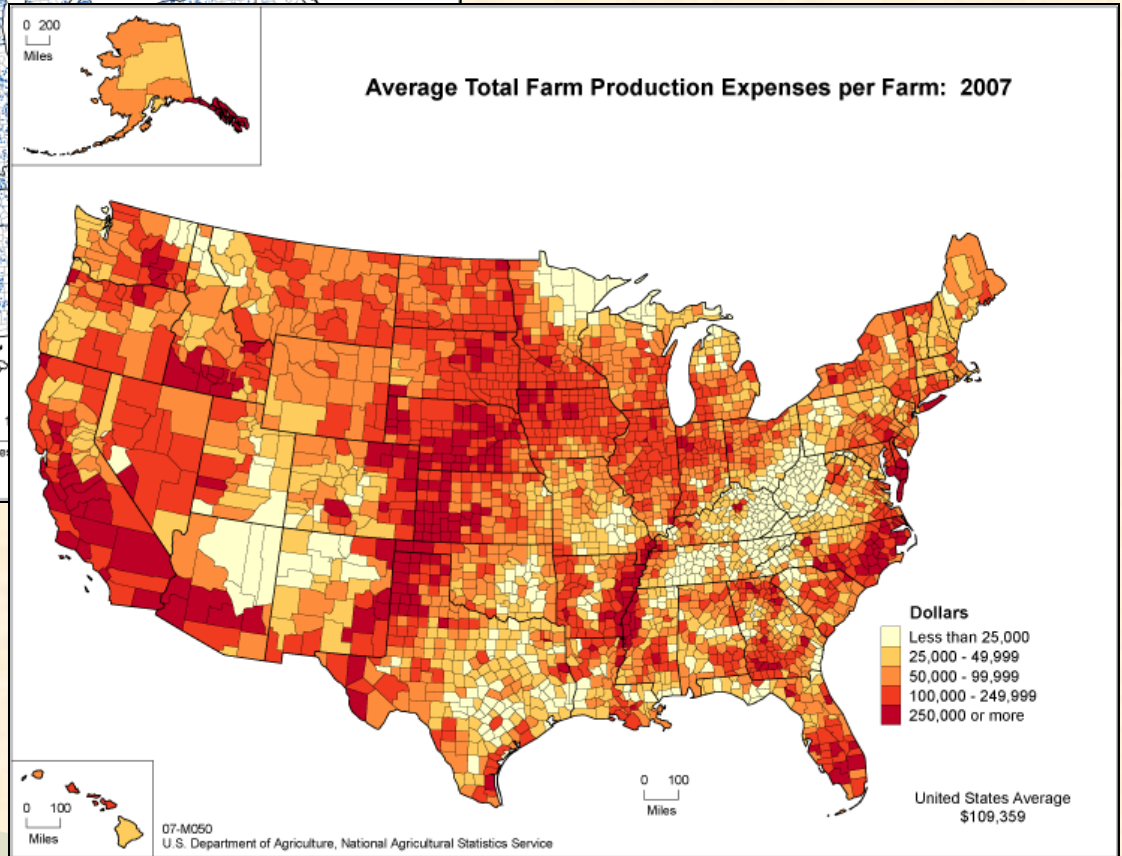
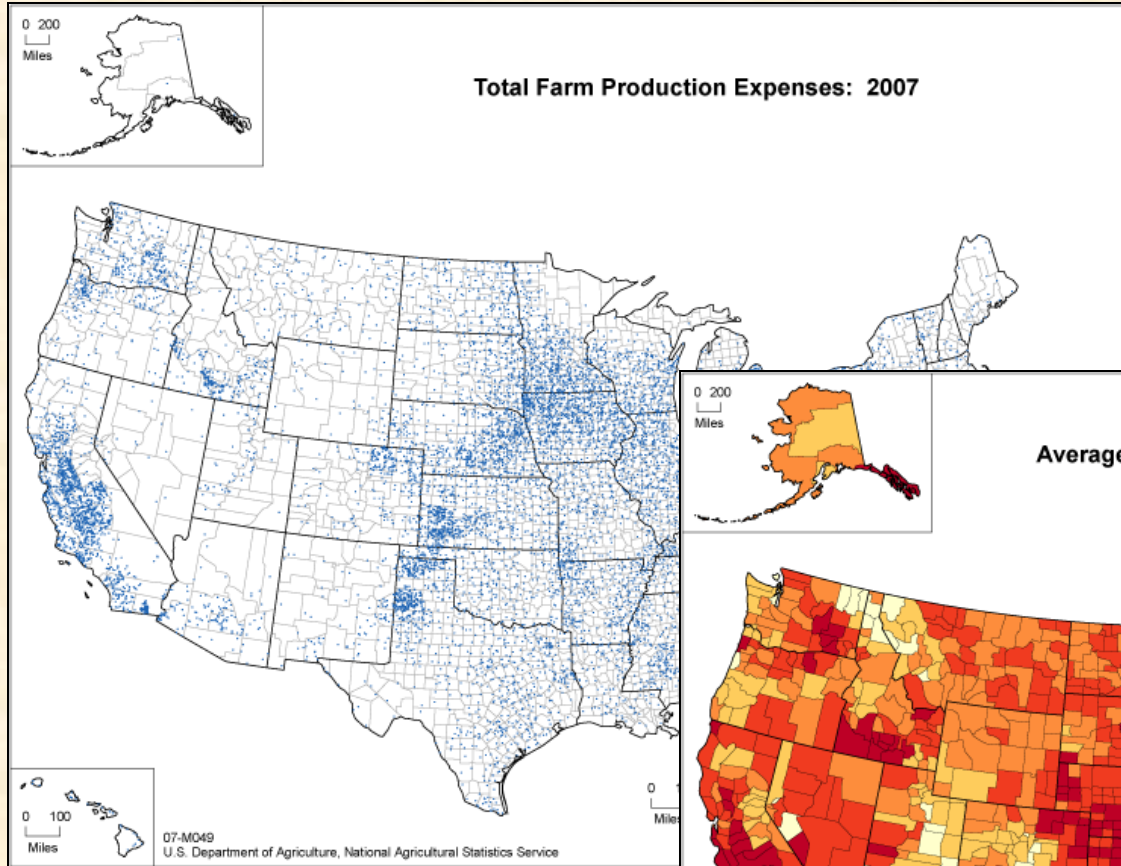
Market Value of Agricultural Products Sold: 2007



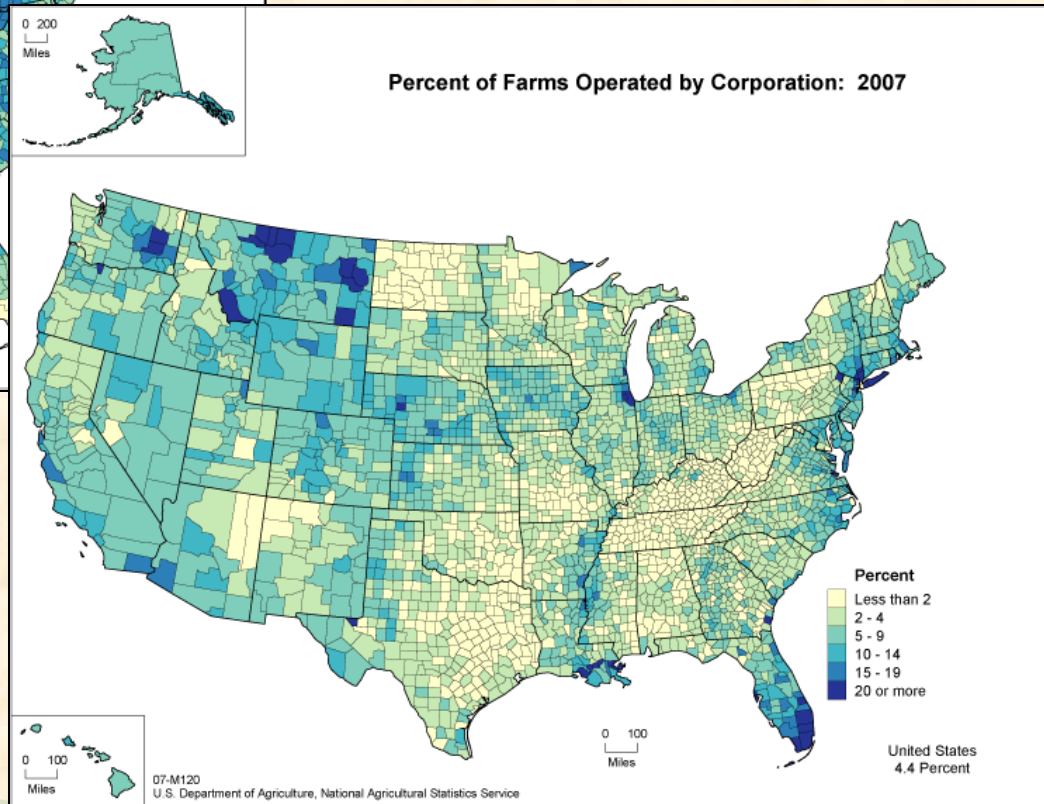
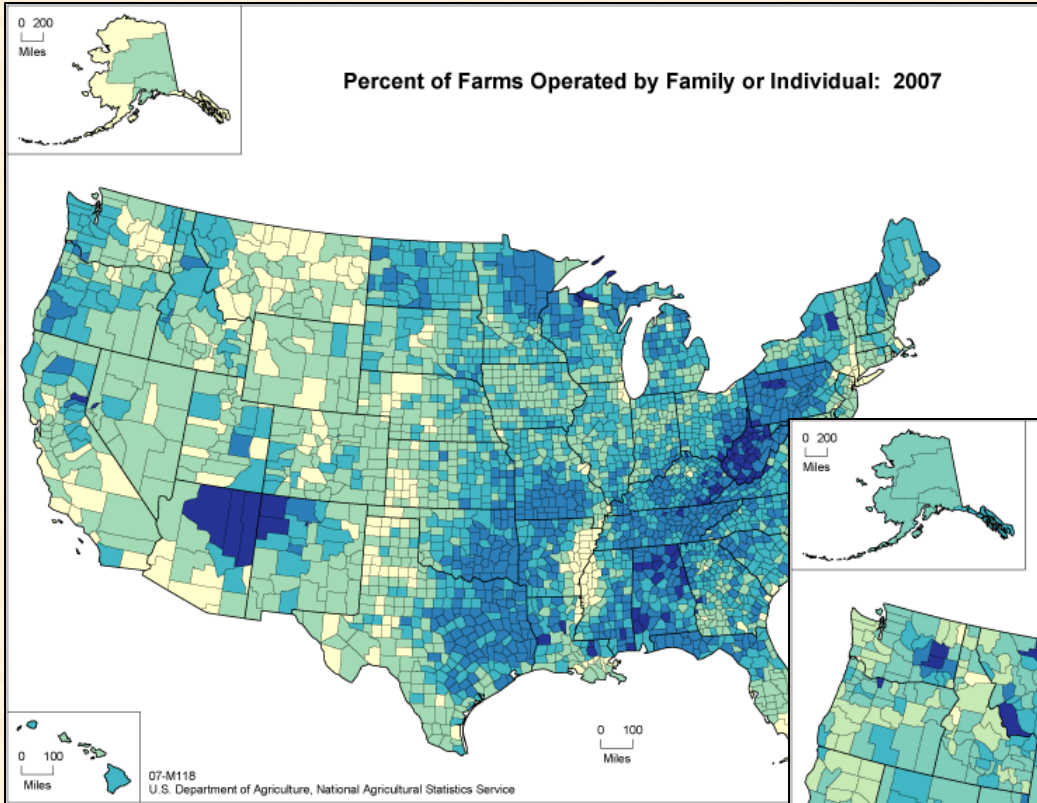
Average Value of Agricultural Products Sold per Farm: 2007



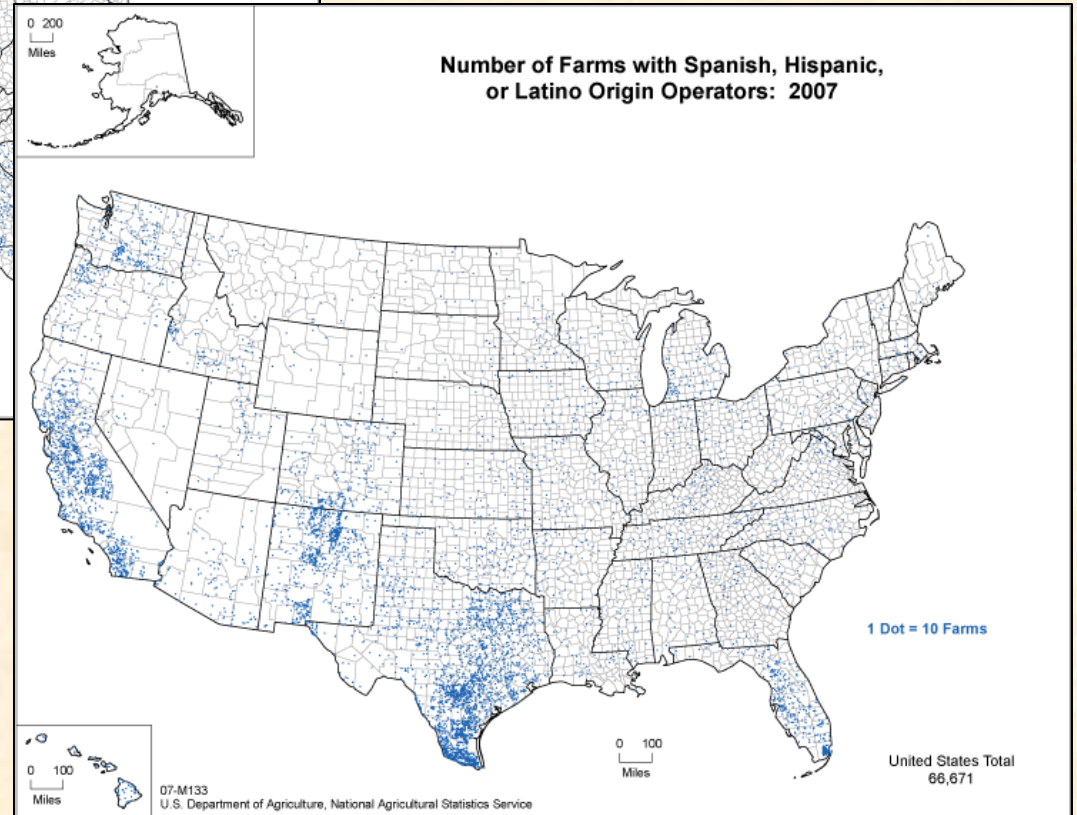
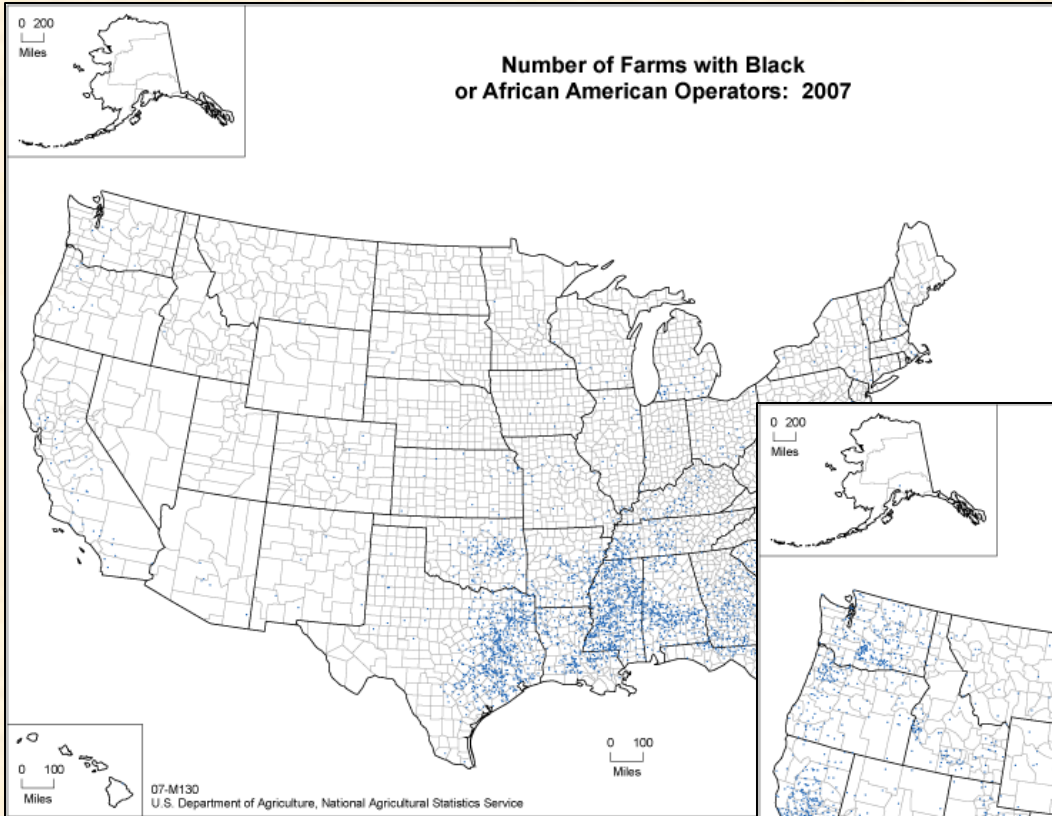
Economics



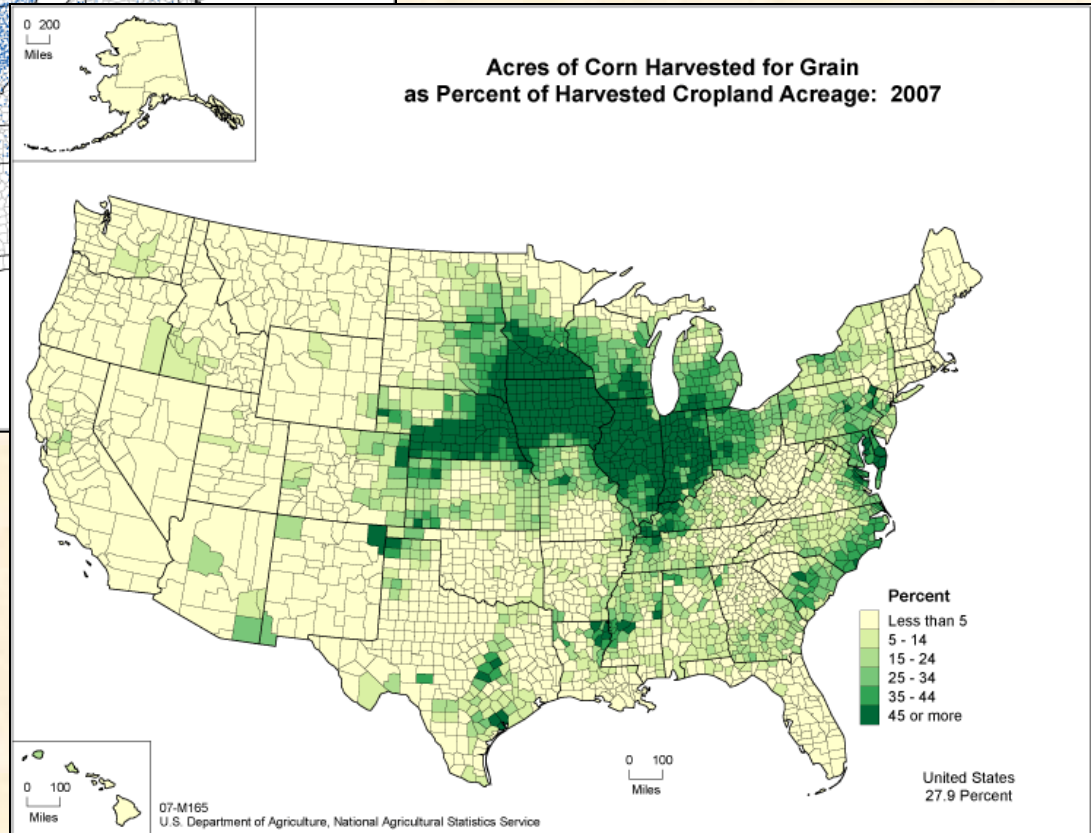
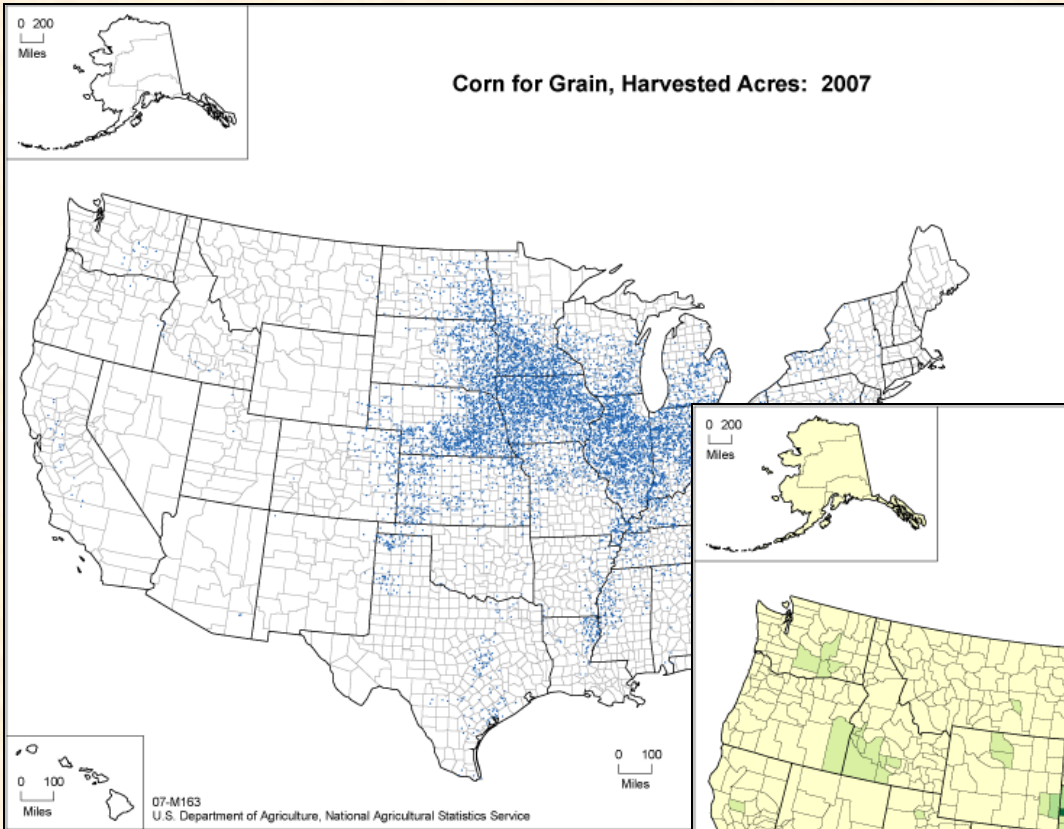
Operators



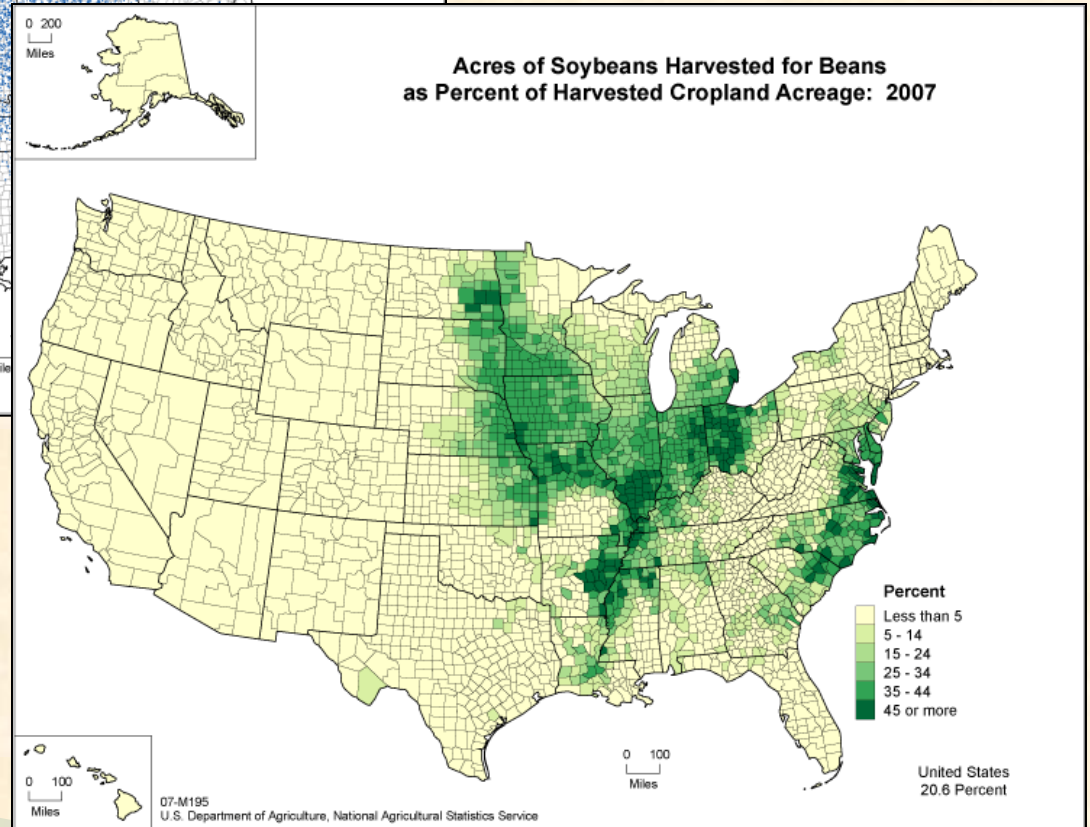
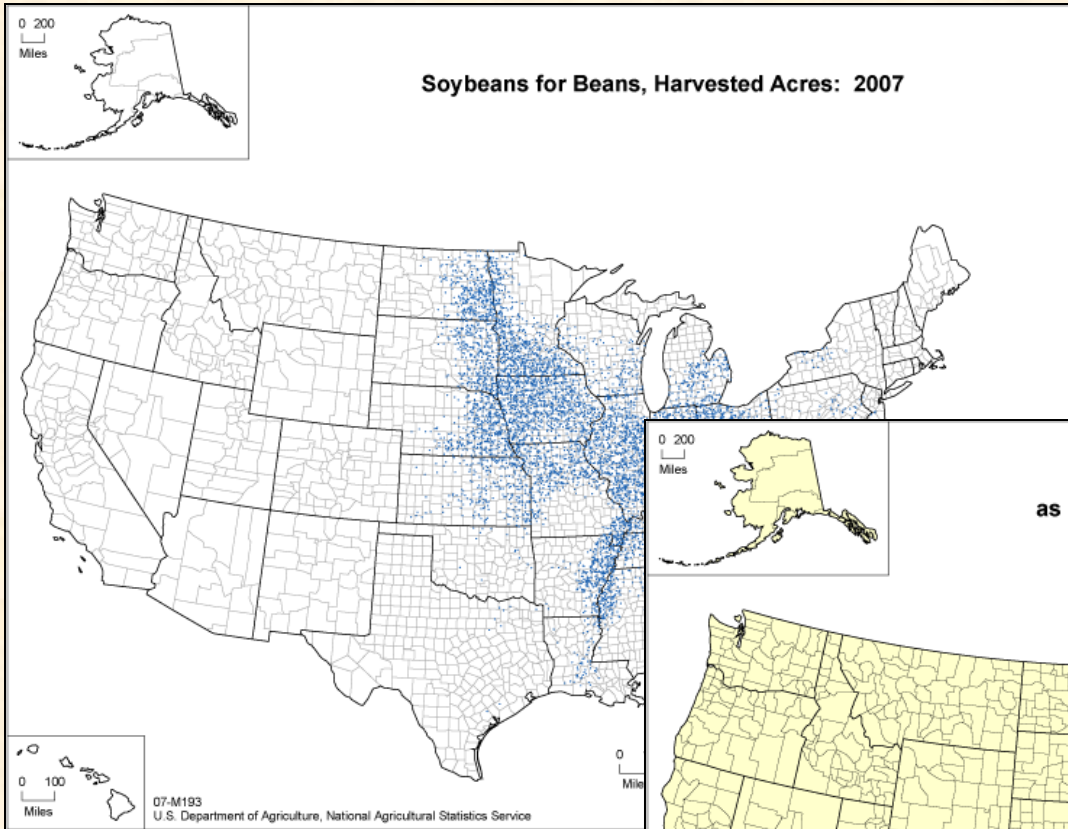
Operators



Crops

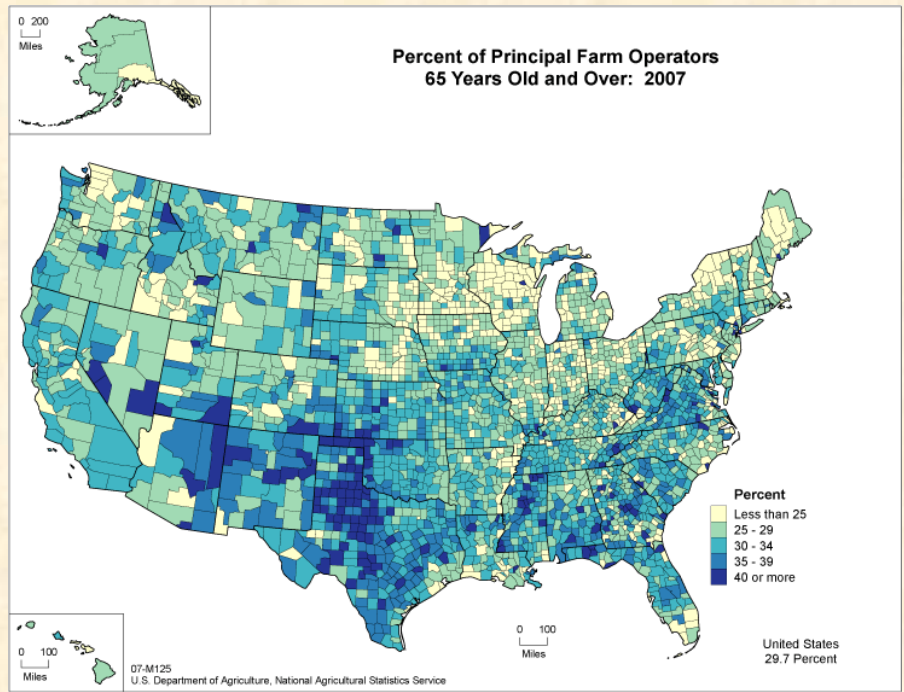
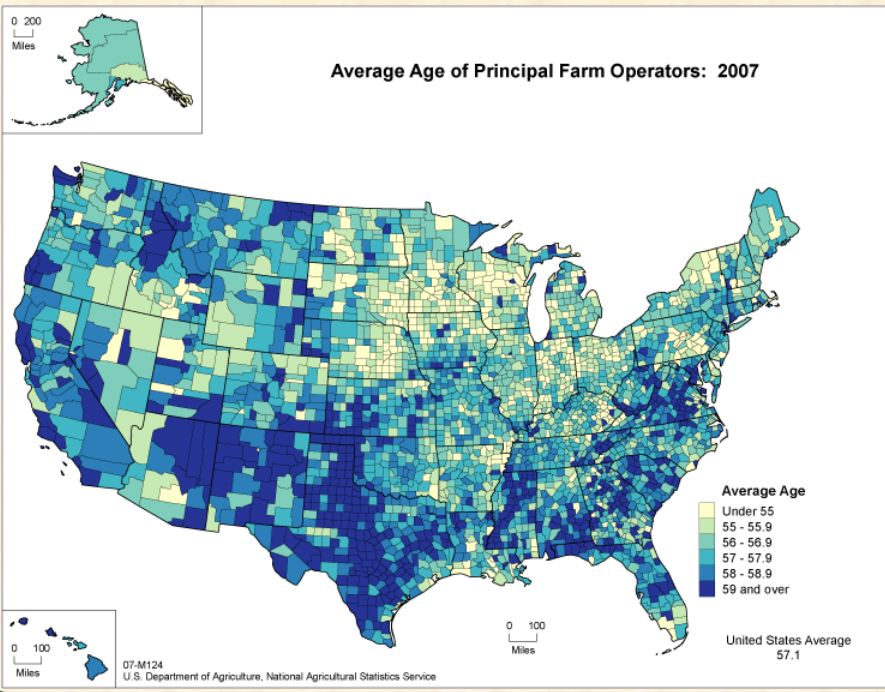


Crops

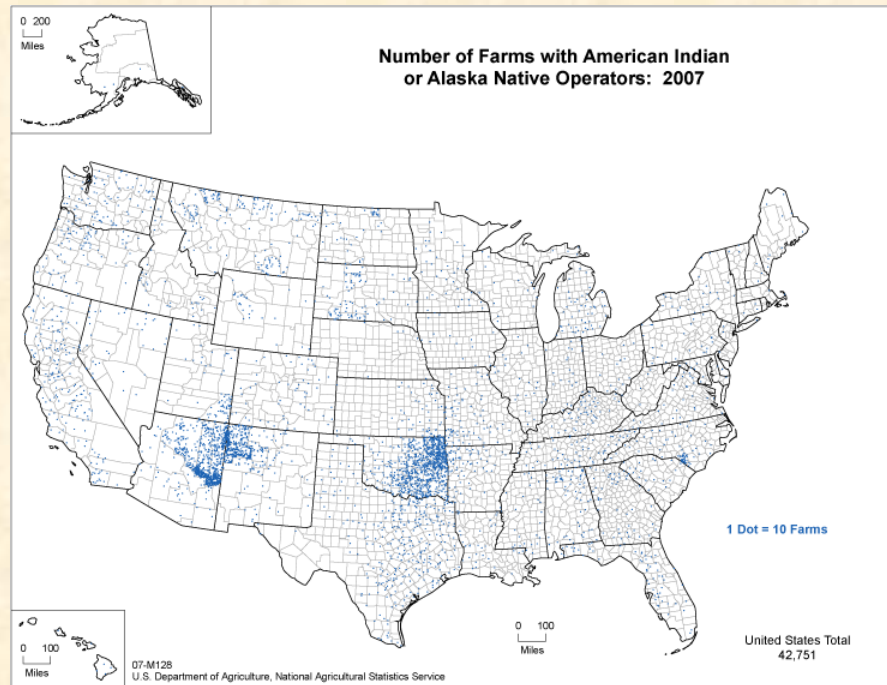
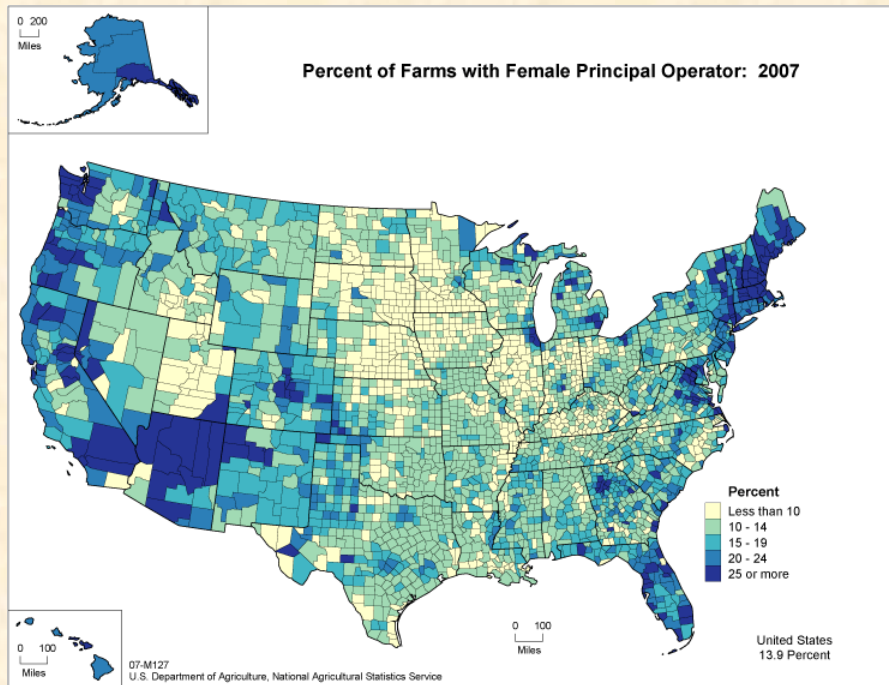


2007 Census of Agriculture - The American Farmer

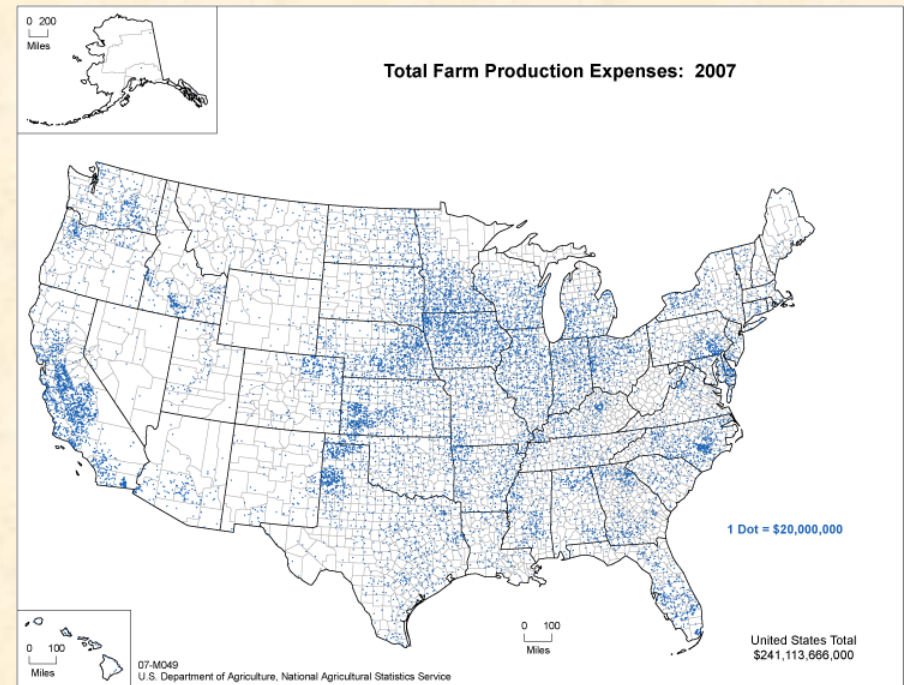
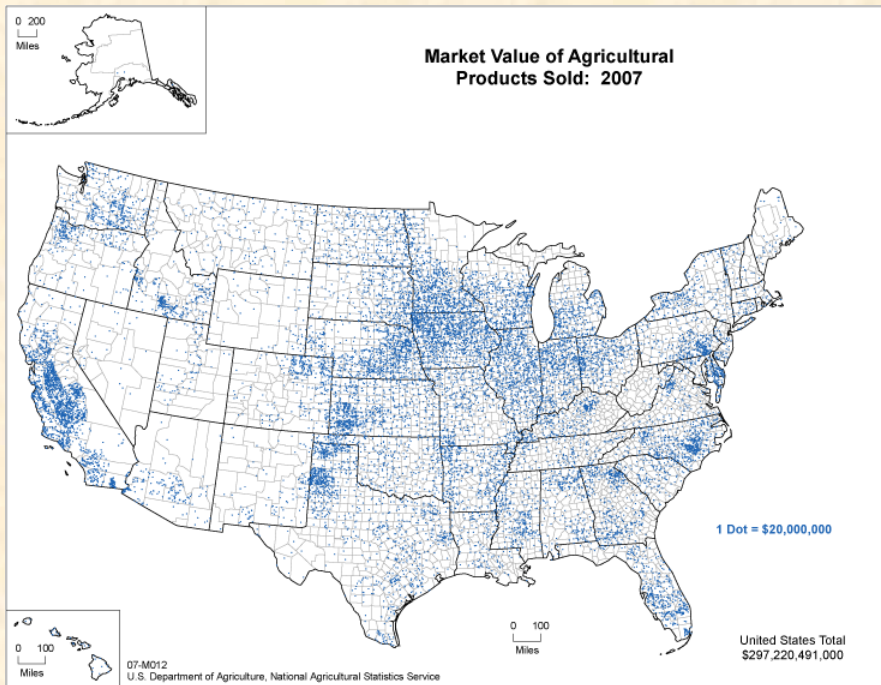
The 2007 Census of Agriculture shows a continuation in several trends regarding the characteristics of U.S. farm operators. The average age of farmers continues to rise with the fastest growing group being 65 years and older.



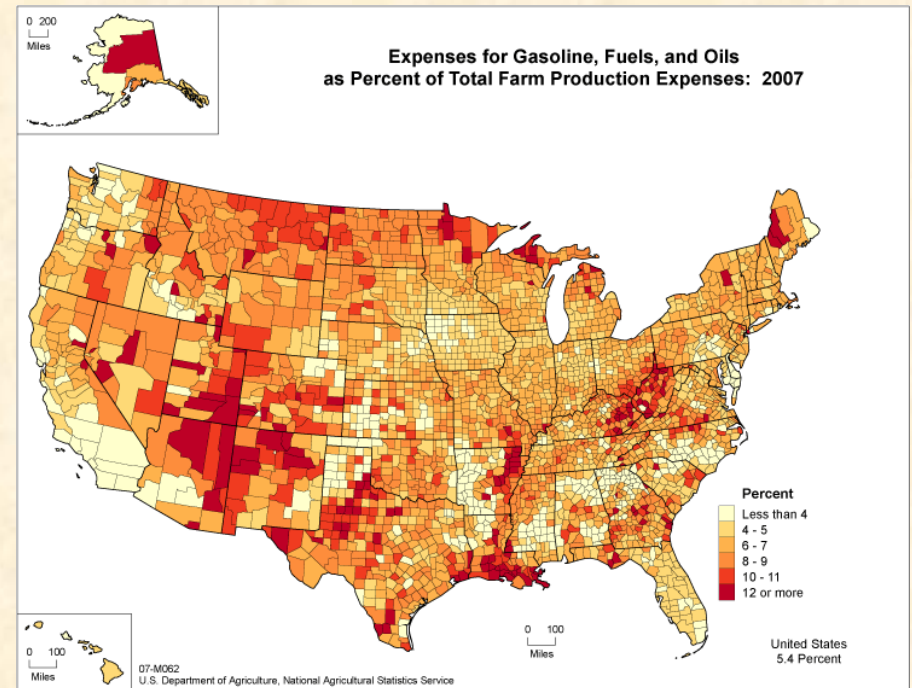
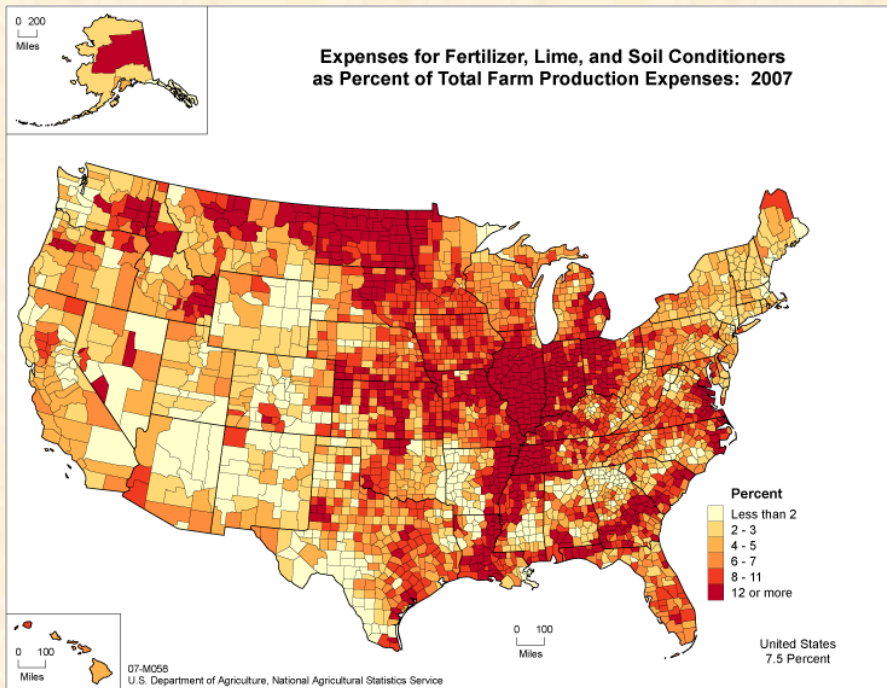
Farm operators have become more demographically diverse and women have a growing presence in U.S. agriculture.



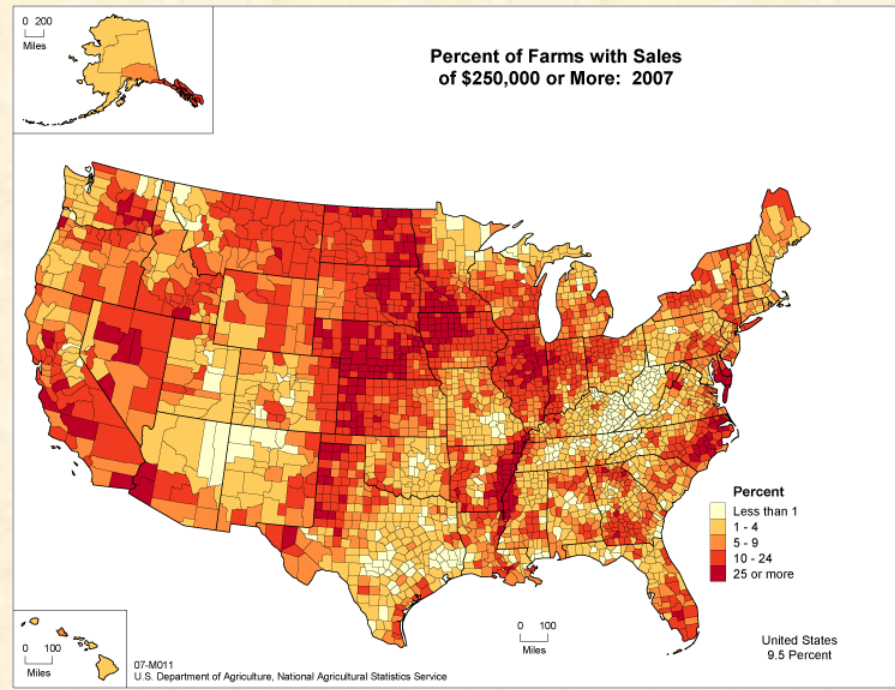
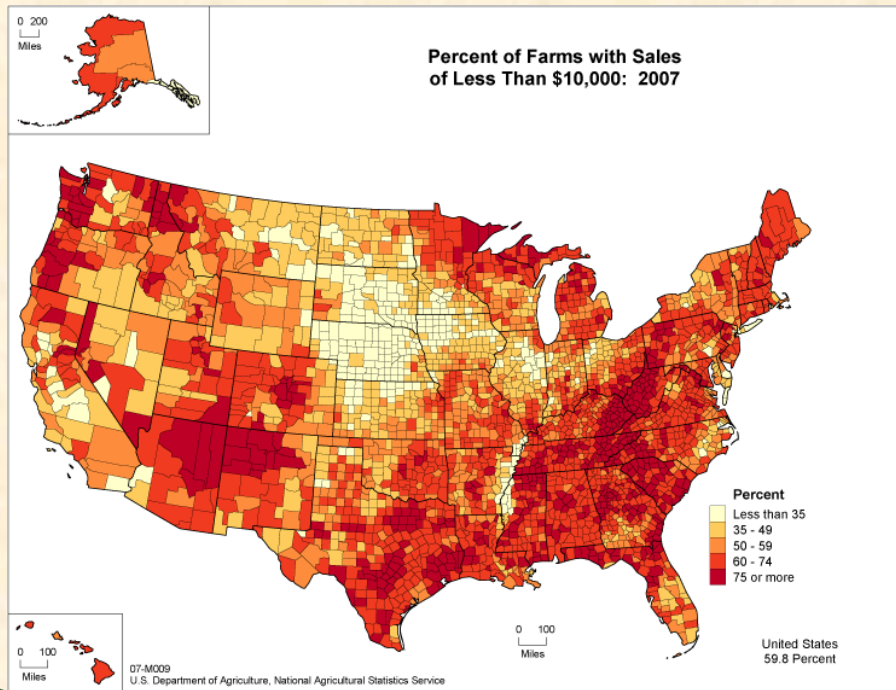
U.S. farmers sold \$297 billion in agricultural products while incurring \$241 billion in production expenses. One of the steepest cost increases was in gasoline and fuel.



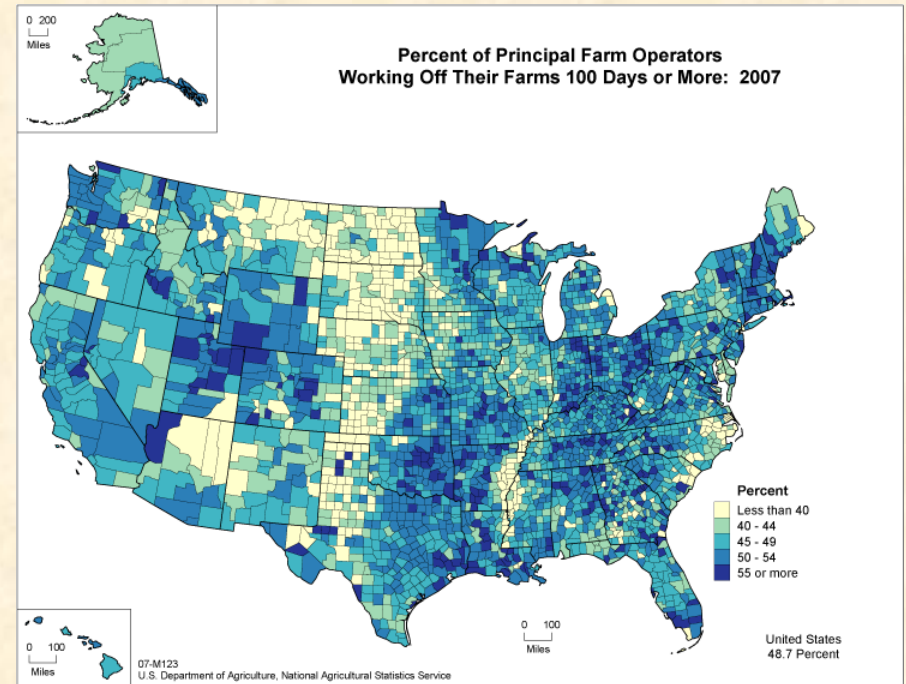
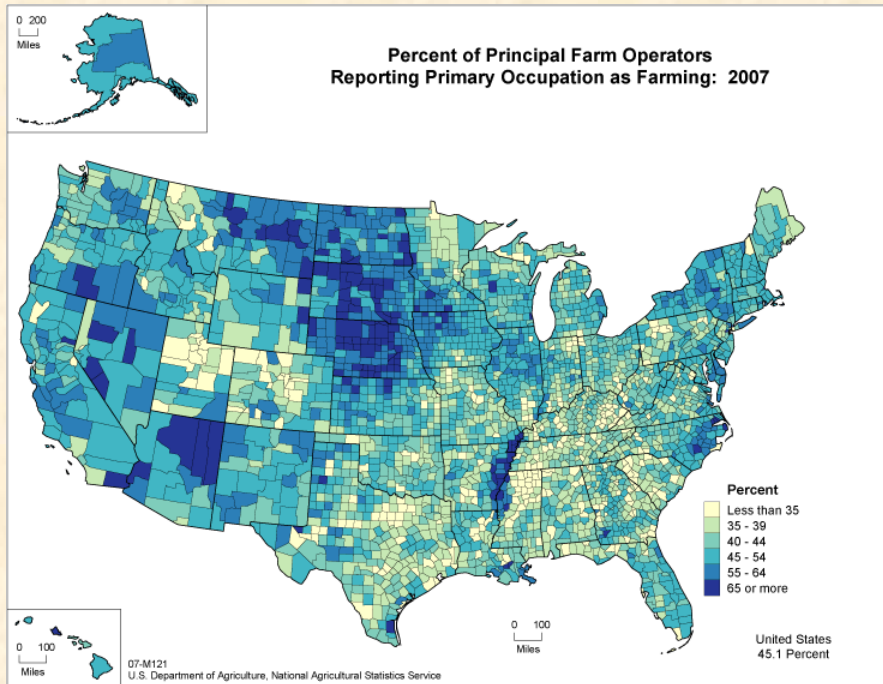
One of the steepest cost increases was in fertilizer and gasoline and fuel.



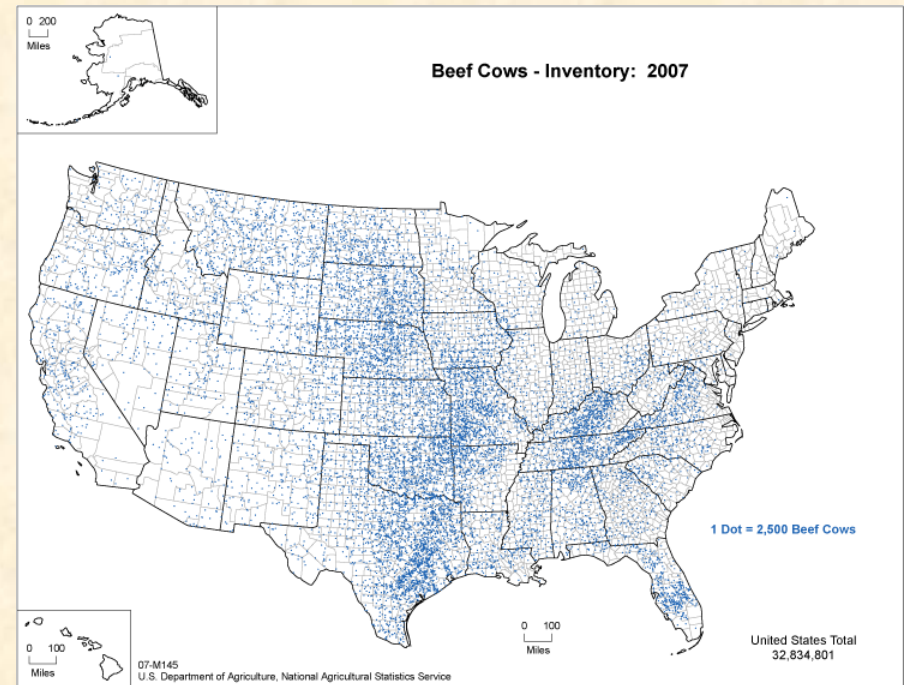
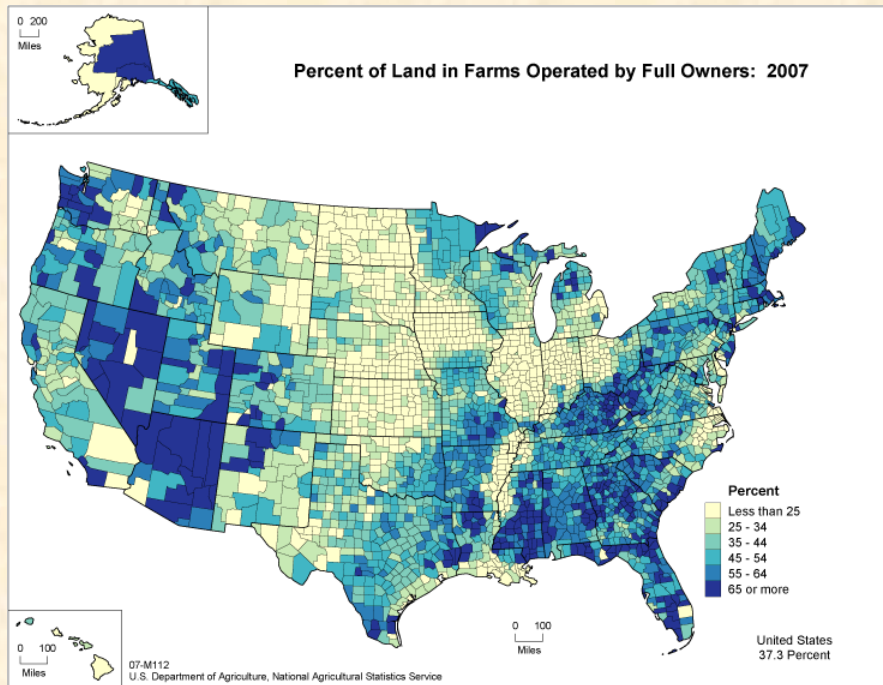
Most U.S. farms are small with 60 percent reporting less than \$10,000 in sales. The demographic characteristics of operators on larger farms, with sales over \$250,000, differ from those of small farms.



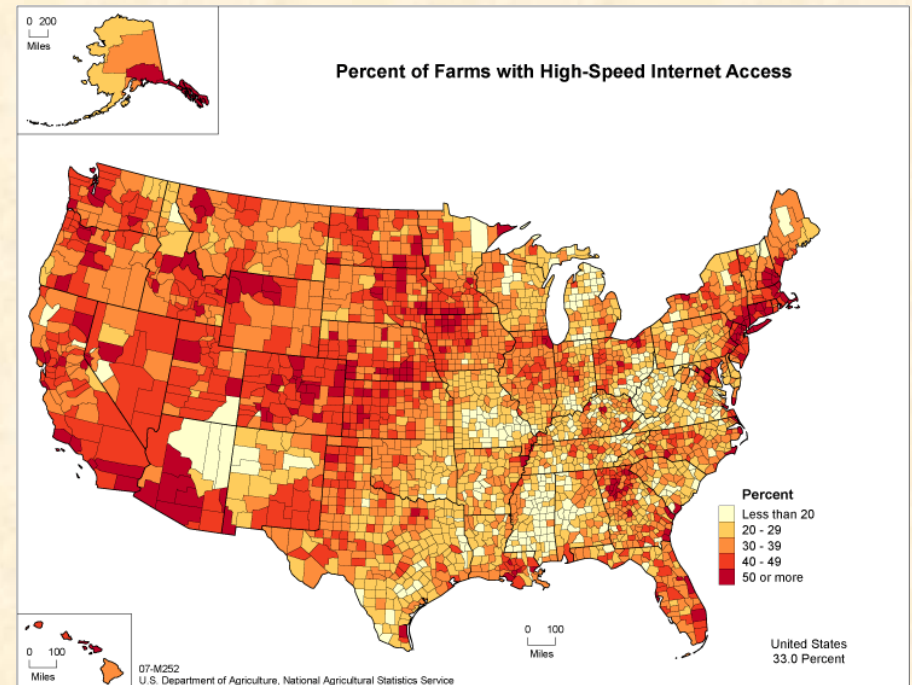
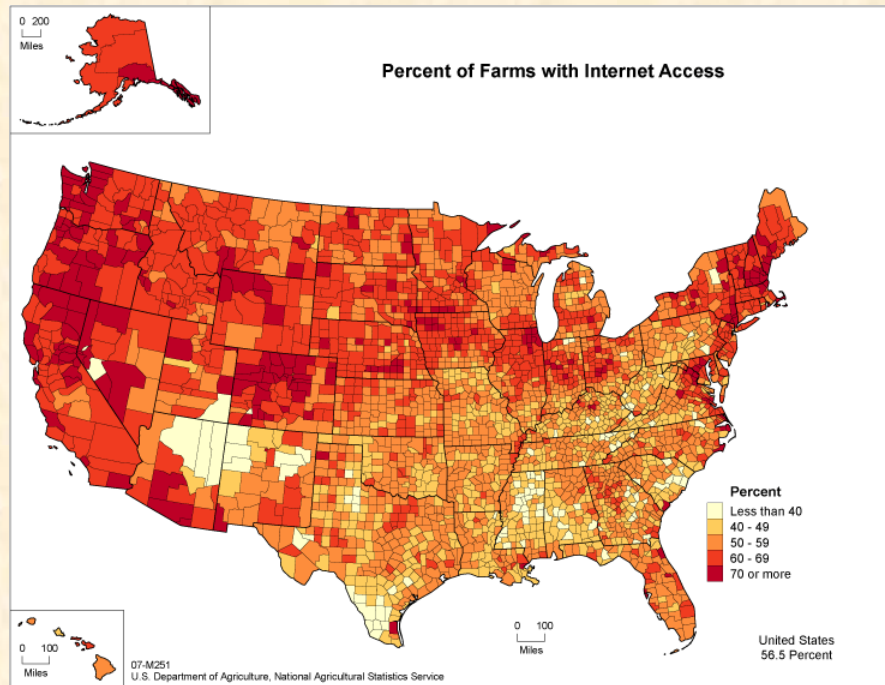
Operators of larger farms tend to be younger, are more likely to report farming as their primary occupation, and are less likely to work off the farm.



The 2007 Census shows that 62 percent of farmland in the U.S. is owned by the operator. Areas with more cropland, such as the Midwest tend to have a greater percentage of rented land. The largest category of production for farms with sales between \$10,000 and \$99,000 was beef cattle and calves.



The 2007 Census found that 57 percent of all farmers have internet access.



▶ County profiles

Profiles and Rankings

Summary reports that combine narrative and data from the 2007 Census of Agriculture. These reports give an insight into State, County, and Congressional District agricultural information, as well as the agriculture products ranking reports sorted by market value.

Regional Studies

- State & County Profiles
- Race, Ethnicity and Gender Profiles (updated 10/30/09) PDF | CSV
- 2007 Congressional District Profiles
- ZIP Code Tabulations

Rankings

- Ranking: Market Value Ag Products
- Congressional District Rankings

2007 Census Publications

State and County Profiles

Pennsylvania

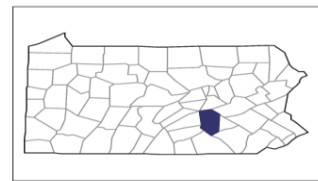


Statewide Summary

Adams	Clinton	Lackawanna	Pike
Allegheny	Columbia	Lancaster	Potter
Armstrong	Crawford	Lawrence	Schuylkill
Beaver	Cumberland	Lebanon	Snyder
Bedford	Dauphin	Lehigh	Somerset
Berks	Delaware	Luzerne	Sullivan
Blair	Erie	Lycoming	Susquehanna
Bradford	Fayette	McKean	Tioga
Bucks	Forest	Mercer	Union
Butler	Franklin	Mifflin	Venango
Cambria	Fulton	Monroe	Warren
Carbon	Greene	Montgomery	Washington
Centre	Huntingdon	Montour	Wayne
Chester	Indiana	Northampton	Westmoreland
Clarion	Jefferson	Northumberland	Wyoming
Clearfield	Luniata	Perry	York
		Philadelphia	

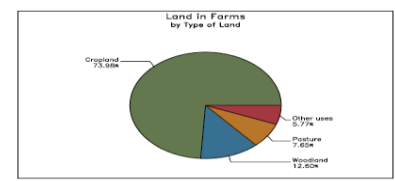
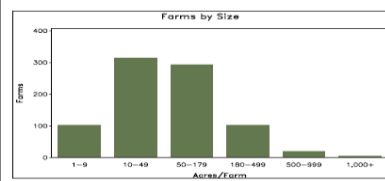
2007 CENSUS OF AGRICULTURE

County Profile



Dauphin County Pennsylvania

	2007	2002	% change
Number of Farms	836	852	- 2
Land in Farms	89,533 acres	94,983 acres	- 6
Average Size of Farm	107 acres	111 acres	- 4
Market Value of Products Sold	\$82,887,000	\$46,487,000	+ 78
Crop Sales \$16,348,000 (20 percent)			
Livestock Sales \$66,539,000 (80 percent)			
Average Per Farm	\$99,148	\$54,562	+ 82
Government Payments	\$857,000	\$948,000	- 10
Average Per Farm Receiving Payments	\$2,985	\$4,493	- 34



Dauphin County – Pennsylvania

Ranked items among the 67 state counties and 3,079 U.S. counties, 2007

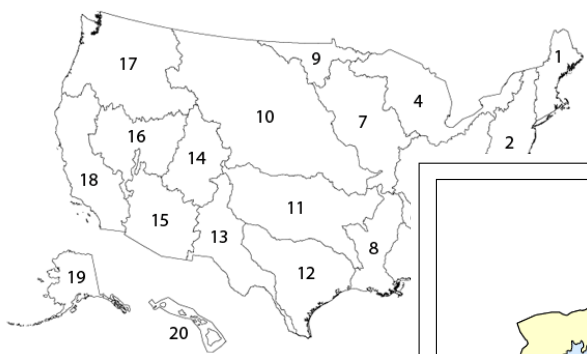
Item	Quantity	State Rank	Universe ¹	U.S. Rank	Universe ¹
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD (\$1,000)					
Total value of agricultural products sold	82,887	21	67	1,070	3,076
Value of crops including nursery and greenhouse	16,348	27	67	1,581	3,072
Value of livestock, poultry, and their products	66,539	21	67	618	3,069
VALUE OF SALES BY COMMODITY GROUP (\$1,000)					
Grains, oilseeds, dry beans, and dry peas	10,109	16	67	1,223	2,933
Tobacco	(0)	15	19	(0)	437
Cotton and cottonseed	-	-	-	-	626
Vegetables, melons, potatoes, and sweet potatoes	1,206	33	67	749	2,796
Fruits, tree nuts, and berries	1,257	18	66	409	2,659
Nursery, greenhouse, floriculture, and sod	753	50	65	1,213	2,703
Cut Christmas trees and short rotation woody crops	(0)	15	66	(0)	1,710
Other crops and hay	2,977	15	66	565	3,054
Poultry and eggs	30,925	11	67	318	3,020
Cattle and calves	7,042	25	67	1,474	3,054
Milk and other dairy products from cows	21,118	25	65	287	2,493
Hogs and pigs	6,252	15	66	484	2,922
Sheep, goats, and their products	384	6	66	331	2,968
Horses, ponies, mules, burros, and donkeys	459	14	67	527	3,024
Aquaculture	220	39	59	526	1,498
Other animals and other animal products	139	39	67	844	2,875
TOP CROP ITEMS (acres)					
Forage - land used for all hay and hayslage, grass silage, and greenchop	19,611	33	67	1,069	3,060
Corn for grain	17,599	22	66	975	2,634
Soybeans for beans	10,539	14	61	1,012	2,039
Corn for silage	3,919	31	64	403	2,263
Wheat for grain, all	3,759	13	60	1,106	2,481
TOP LIVESTOCK INVENTORY ITEMS (number)					
Layers	788,324	8	67	122	3,024
Broilers and other meat-type chickens	669,744	10	62	355	2,476
Pullets for laying flock replacement	225,273	8	65	140	2,627
Turkeys	127,231	8	63	151	2,371
Hogs and pigs	21,604	13	66	504	2,956

▶ Watershed data published at the 6 digit hydrologic unit code for 38 selected land use characteristics

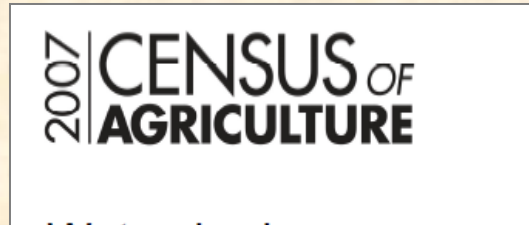
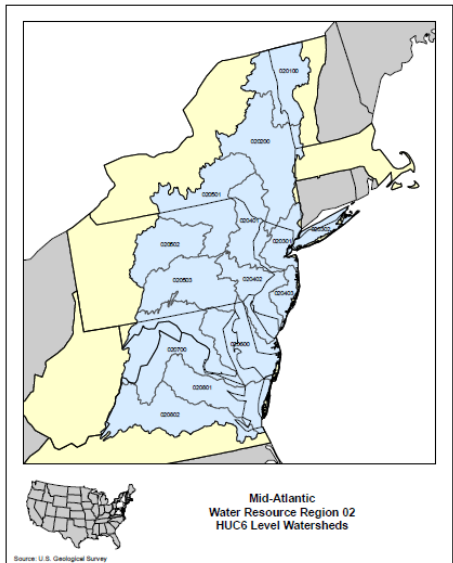
2007 Census Publications

2007 Census by Watershed

Select the watershed region from the map or from the text below the map.



- Full Watershed Report [PDF](#) | [TXT](#) | [CSV](#)
- New England 01
 - Mid-Atlantic 02
 - South Atlantic-Gulf 03
 - Great Lakes 04
 - Ohio 05
 - Tennessee 06
 - Upper Mississippi 07
 - Lower Mississippi 08
 - Souris-Red-Rainy 09
 - Missouri 10
 - Arkansas-White-Red 11
 - Texas-Gulf 12
 - Rio Grande 13
 - Upper Colorado 14
 - Lower Colorado 15



Watershed Volume 2 • Subject

Issued May 2009

Table 1. Summary by Hydrologic Unit Code: 2007 and 2002 - Con.

(For meaning of abbreviations and symbols, see introductory text)

Item	US		H10 Missouri		H100/100	
	2007	2002	2007	2002	2007	2002
Farms.....farms	2,294,702	2,128,682	287,832	282,810	113	86
Land in farms.....acres	922,046,640	938,279,058	258,892,881	281,283,493	187,325	184,070
Land use:						
Total cropland.....farms	1,685,339	1,751,450	219,730	226,784	89	88
acres	408,424,909	434,164,948	110,542,228	115,541,128	68,738	70,143
Harvested cropland.....farms	1,328,004	1,382,808	175,765	180,259	36	46
acres	308,807,801	302,897,252	81,388,773	75,505,818	25,735	31,853
Cropland used only for pasture or grazing.....farms	484,753	718,232	41,850	72,169	10	20
acres	56,771,154	80,567,835	7,139,131	12,458,438	8,074	4,094
Cropland on which all crops failed or were abandoned.....farms	86,587	116,942	11,829	27,812	11	11
acres	7,405,868	17,069,594	1,813,275	7,937,248	2,421	1,914
Cropland idle or used for cover crops or soil improvement but not harvested and not pastured or grazed.....farms	380,225	380,300	59,007	58,580	37	24
acres	37,868,746	37,281,095	12,032,518	10,588,882	18,884	14,300
Cropland in cultivated summer fallow.....farms	87,680	73,335	23,170	22,778	24	23
acres	15,871,507	16,559,229	8,188,829	9,096,741	11,514	18,182
Total woodland.....farms	843,204	818,105	80,139	55,009	6	11
acres	75,088,803	75,878,213	5,658,042	6,023,423	191	15,609
Woodland pastured.....farms	370,207	378,795	31,141	31,791	3	7
acres	28,809,890	31,128,955	3,647,009	3,819,573	151	1,800
Woodland not pastured.....farms	566,123	568,898	37,334	31,457	3	5
acres	46,488,913	44,749,258	2,390,033	2,203,850	40	13,749
Permanent pasture and rangeland, other than cropland and woodland pastured.....farms	1,132,808	850,913	155,825	131,317	85	66
acres	408,832,118	385,278,829	134,080,804	132,931,778	88,866	74,277
Land in farmsteads, buildings, livestock facilities, ponds, roads, wasteland, etc.....farms	1,128,272	1,165,564	142,109	150,213	51	56
acres	31,740,212	32,957,088	6,414,009	6,787,168	1,700	4,041
Irrigated land.....farms	301,028	299,583	40,139	39,940	18	18
acres	68,599,305	55,311,238	14,158,958	13,158,207	4,421	2,480
Harvested cropland.....farms	256,105	258,030	38,615	38,827	14	18
acres	51,537,104	50,334,022	13,215,761	12,183,818	4,021	(D)
Pastureland and other land.....farms	72,885	68,588	7,947	7,528	6	1
acres	5,082,201	4,677,214	942,565	956,881	400	(D)
Land used for organic production.....farms	20,437	7,254	1,117	518	1	-
acres	2,577,418	562,488	825,227	140,383	(D)	-
Fertilizers and chemicals:						
Commercial fertilizer, lime, and soil conditioners.....farms	1,022,038	1,078,435	134,024	141,755	28	38
acres	285,665,497	248,060,283	66,834,888	59,381,228	20,881	28,829

Vegetation Condition Images

- ▶ Vegetation condition images can be accessed from <http://www.nass.usda.gov/Research and Science>

USDA United States Department of Agriculture
National Agricultural Statistics Service

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- Census Results Available Online
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Research and Science

Spatial Data

Vegetation Condition Images

Cropland Data Layer
Image Gallery (2003) available for these states:
Arkansas, Illinois, Indiana, Iowa, N. Dakota, Mississippi, Missouri, Nebraska, Wisconsin)

Land Use Strata for Selected States

Reports, Papers and Presentations

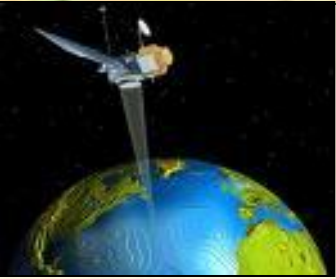
Research Reports | Presentations | Conferences

Animated Maps

Vegetation Condition

Crop Acreage

Vegetation Condition



- ▶ Bi-weekly composite images utilizing the **normalized difference vegetation index (NDVI)** from the **Advanced Very High Resolution Radiometer (AVHRR)** weather satellite.
- ▶ Integration of **remote sensing** along with **survey data** are used to illustrate weather effects on various sources of information

Vegetation Condition

- ▶ **Weather satellite** is used to monitor changing vegetation conditions throughout the growing season
- ▶ Vegetation condition images are based on a **Normalized Vegetation Index** or NDVI

Vegetation Condition

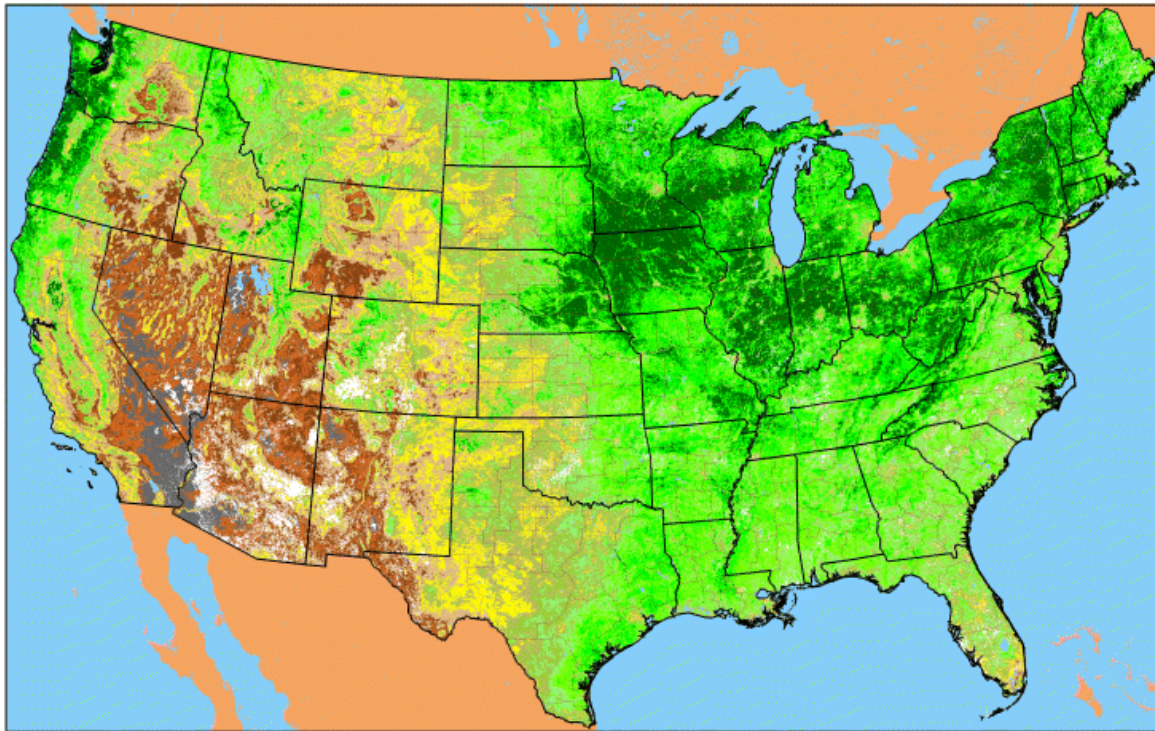
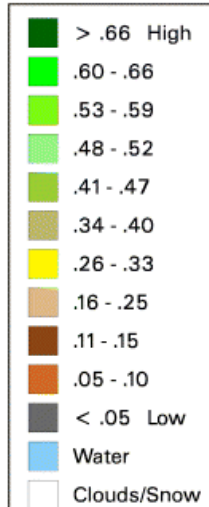
- ▶ The NDVI measures **vegetation vigor** (greenness) caused by "chlorophyll activity"
- ▶ **NDVI values** have been shown to have a close relationship to the growth stages of crops

Vegetation Condition

Conterminous U.S. Vegetation Condition - 2010
Period 31 (7/20 - 8/2)

No Water Vapor
Correction Applied

Vegetation Index



Agricultural Statistics Districts

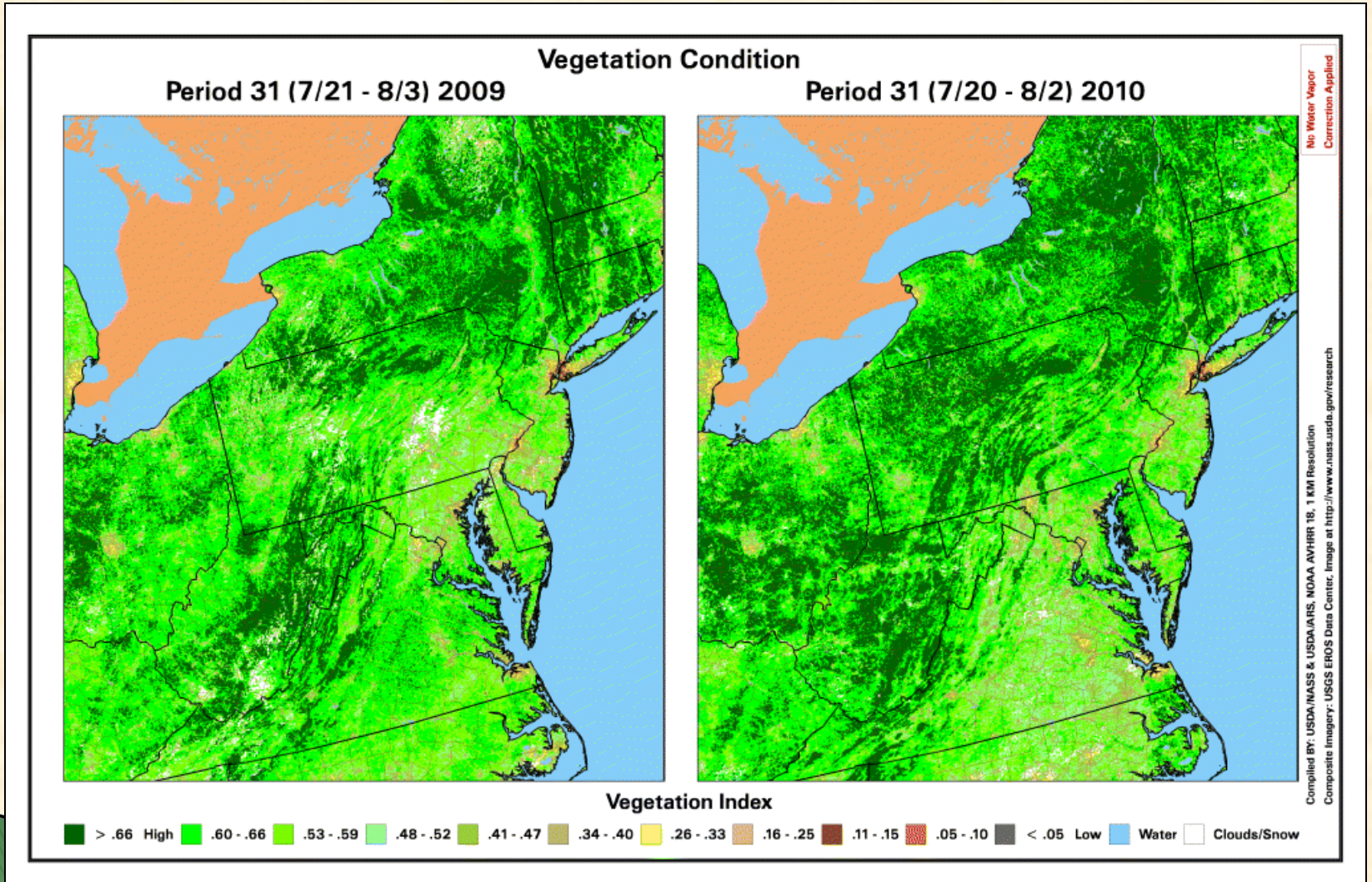
1:15,000,000

Original Imagery: NOAA-18 AVHRR
Resolution: 1 Kilometer
Composite Imagery: USGS EROS Data Center
Questions email: hq_rdd_glb@nass.usda.gov
For Additional Images Please See:
www.nass.usda.gov/research

0 100 200 300 400 500 Miles



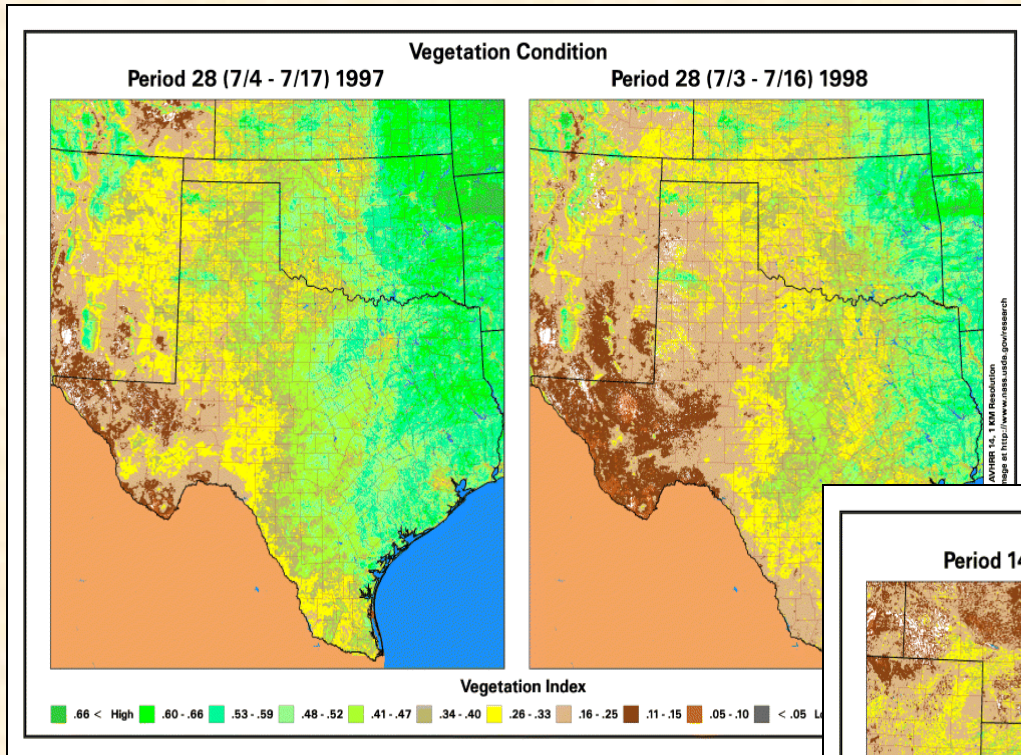
Vegetation Condition



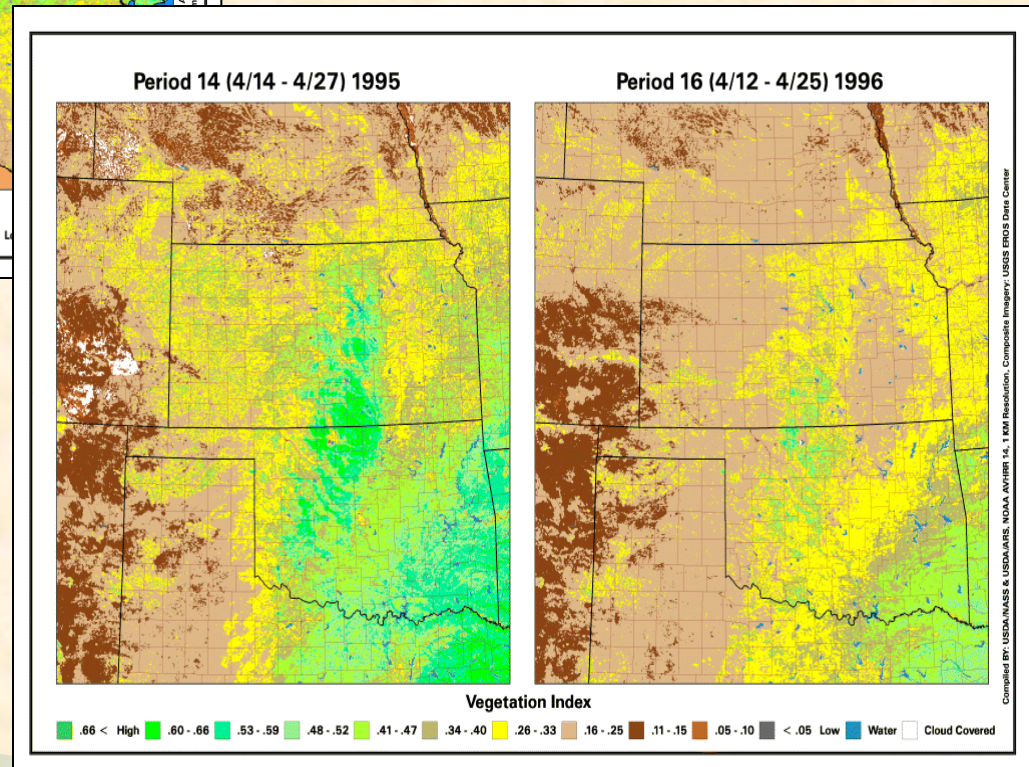
Vegetation Condition

- ▶ **Lower NDVI values** are likely to show areas under stress due to
 - drought
 - excessive moisture
 - disease
- ▶ **Higher NDVI values** represent healthy vegetation

1998 Drought in Texas



1996 Drought in Winter Wheat Areas



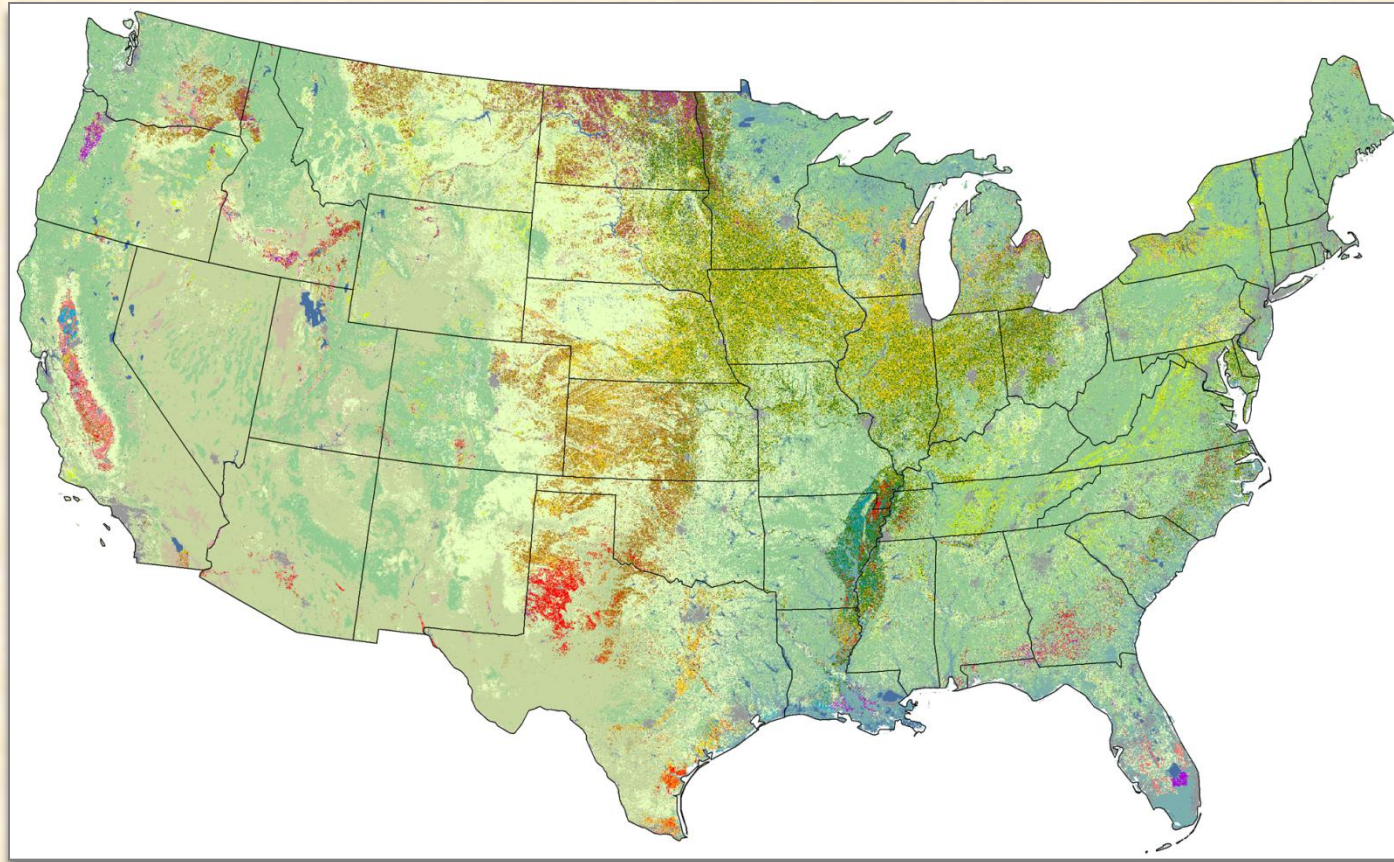
The USDA/NASS 2009 Cropland Data Layer

48 State Continental US Coverage

What is a Cropland Data Layer (CDL)?

Identifies agriculture type and location

Each pixel represents a type of crop or land cover



Corn



Winter Wheat



Rice



Soybeans



Cotton



Alfalfa

Cropland Data Layer (CDL)

- ▶ Cropland Data Layer can be accessed from <http://www.nass.usda.gov/> Research and Science

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National Agricultural Statistics Service

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research survey data census

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Vegetation Condition
Crop Acreage

Cropland Data Layer (CDL)

- ▶ Cropland Data Layer is available on CD-ROM or DVD and from the NRCS Geospatial Data Gateway

 **U.S. Department of Agriculture**
National Agricultural Statistics Service
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'10 Plans

Cropland Data Layer
(Now Available on CD-ROM and/or DVD)



'09 Production

Announcement: The Spatial Analysis Research Section released ALL 2009 Cropland Data Layer products sans Florida during the week of January 4, 2010. Florida was released for download March 5, 2010. The CDL now spans 48 States. The 2008 New Mexico CDL was also released.

These latest products will be downloadable from this website or the [Geospatial Data Gateway](#).

CDL data prior to and including 2009 are available for free download at the [Data Gateway](#).

For questions and/or comments please contact the [Geospatial Information Branch](#).

Cropland Data Layer (CDL)

- ▶ Brief history from 1971 to present, examples, FAQ's, order forms, metadata and methodology

The Cropland Data Layer (CDL) contains crop specific digital data layers, suitable for use in geographic information systems (GIS) applications. The CDL Program annually focuses on producing digital categorized geo-referenced output products using imagery from the Resourcesat-1 [AWiFS](#) and the [Landsat 5 TM](#) satellites. See the Indian Government's [National Remote Sensing Agency](#) handbook for the Resourcesat-1 satellite. The CDL Program represents a cooperative venture between three USDA Agencies (Headquarters units of NASS, the [Foreign Agriculture Service IPA](#) group and the Farm Service Agency/[Aerial Photography Field Office](#)) plus in-state agreements between NASS Field Offices and their respective state government or university partners. Currently there are numerous [historical research reports](#) with more detailed information on NASS's general uses of remote sensing and GIS.

The Cropland Data Layer product contains statewide categorizations of ortho-rectified mosaicked images using [See5](#) software, and are exported to GeoTIFF format. [ESRI's ArcExplorer](#) GIS data viewer that can be downloaded to view the CDL's. Limitations of this data are [declared](#). The CD-ROM's and/or DVD's are at cost of reproduction [to the public](#).

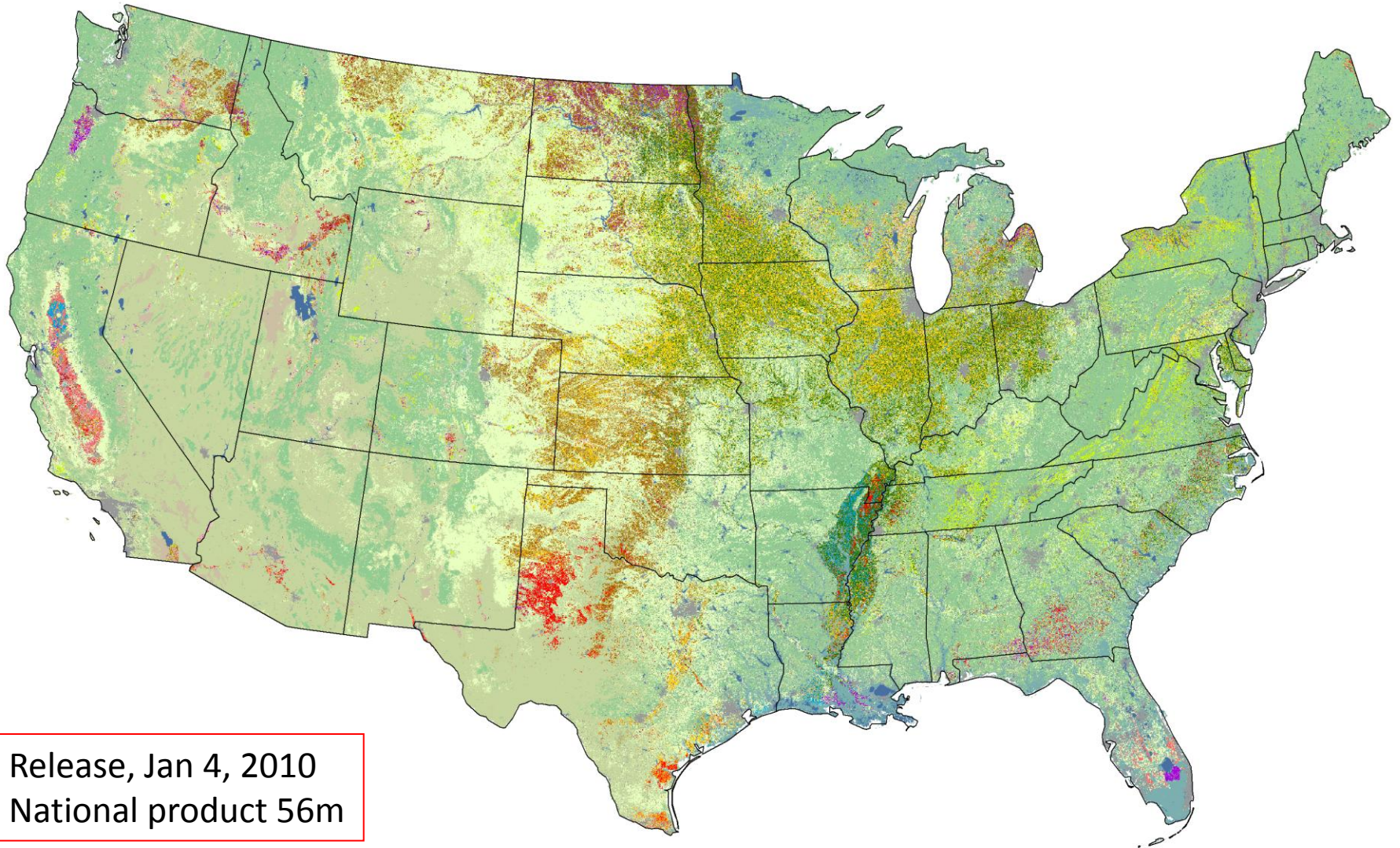
Visit our [cooperators sites](#) to see how they are using and enhancing the Cropland Data Layer products.

An independent CDL accuracy assessment performed by the University of Illinois at Urbana-Champaign Institute of Natural Resources Sustainability titled: [Assessment and Potential of the 2007 USDA-NASS Cropland Data Layer for Statewide Annual Land Cover Applications](#)

A CDL History White Paper: [A brief history from 1971 to present](#)

[Examples](#) | [FAQ's](#) | [Order Form](#) | [Metadata](#) | [Methodology](#)

2009 Cropland Data Layers



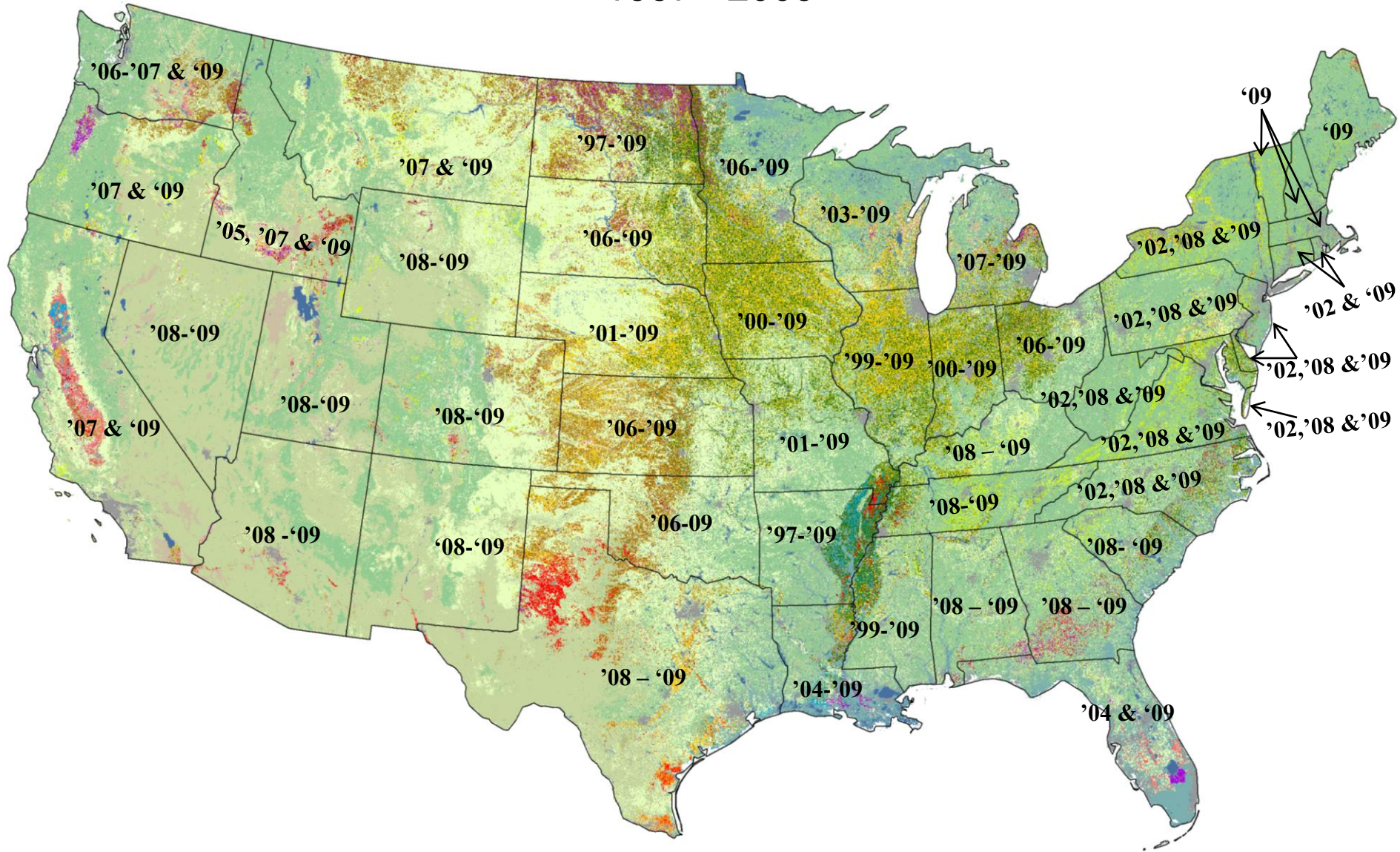
Release, Jan 4, 2010
National product 56m

Cropland Data Layer Objectives



- ▶ “Census by Satellite”
 - ▶ Without area duplication
 - ▶ Annually cover major program crop regions
- ▶ Provide timely, accurate, useful independent estimates
 - ▶ Measurable error
 - ▶ County, State, District and Watershed level
- ▶ Output crop specific Cropland Data Layer
 - ▶ Distribute free to public NRCS Geospatial Data Gateway
 - ▶ Publish accuracy statistics/metadata

Cropland Data Layers 1997 - 2009



Cropland Data Layer Program Components



▶ Inputs

- Resourcesat-1 AWiFS & Landsat imagery
- Farm Service Agency – Common Land Unit
- NASS June Ag Survey
- Ancillary data –USGS NLCD & derivative products

▶ Outputs

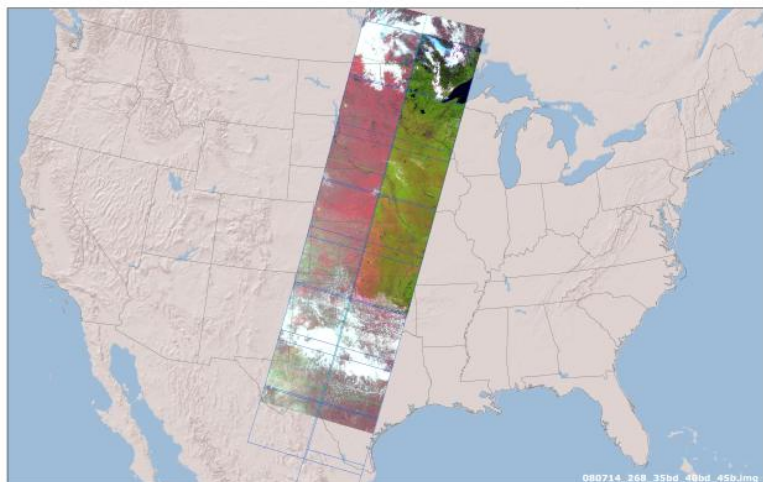
- Acreage Estimates
- Cropland Data Layer

▶ Process

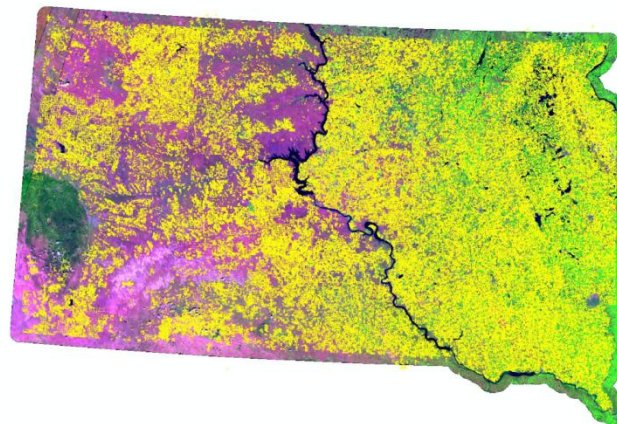
- Commercial software

Inputs

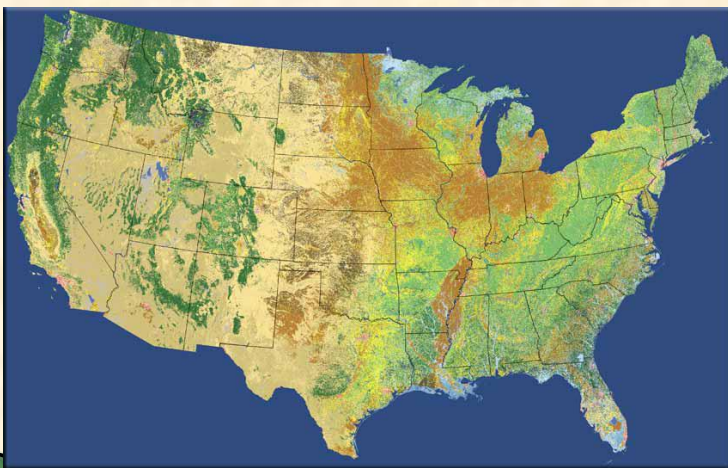
Satellite Imagery - AWiFS & Landsat TM



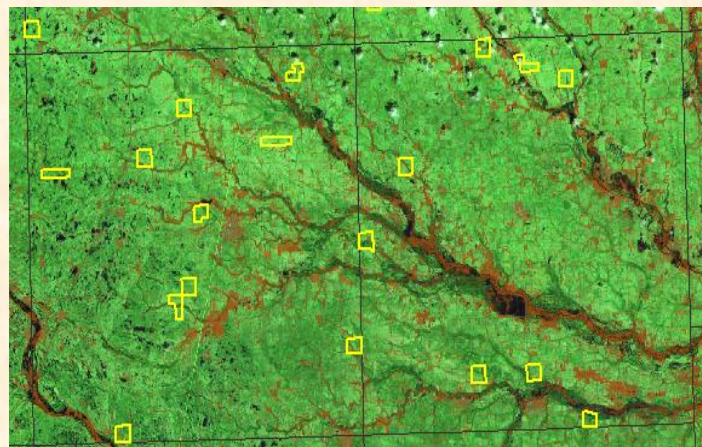
Farm Service Agency – CLU



NLCD & Derivative products



NASS June Agriculture Survey



Software Suite

Ground Truth Preparation

- ESRI ArcMap

Image Preparation

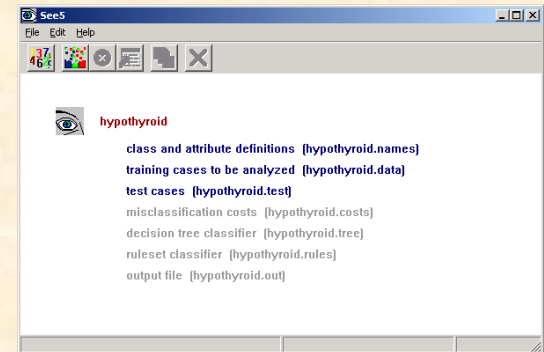
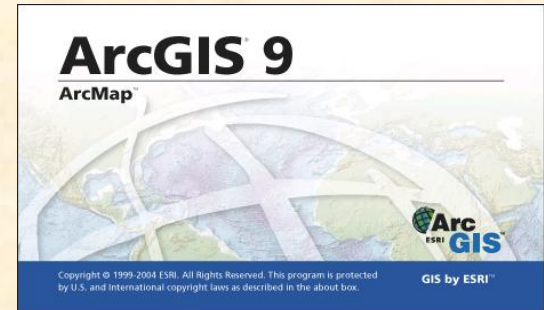
- Leica Geosystems ERDAS
Imagine 9.1

Image Classification

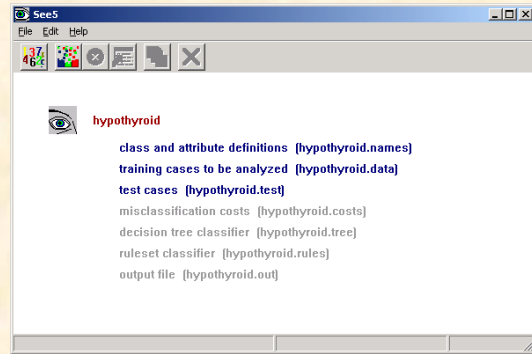
- See 5

Acreage Estimates

- SAS/IML Workshop



Software Suite



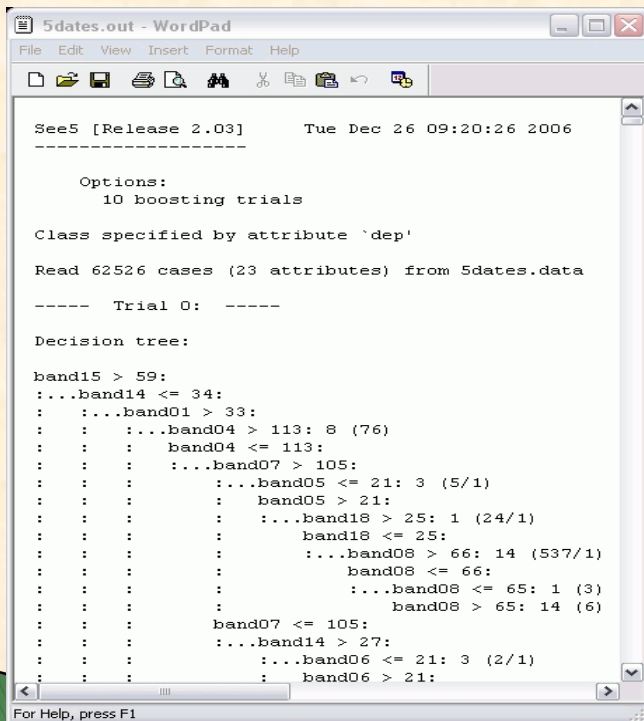
See5 Decision Tree

State-of-the-art technique for image classification

Relatively inexpensive (\$900)

Uses ground truth categories and spectral bands from imagery to define specific rules to classify imagery

Incorporates a powerful ensemble method known as “boosting”



Data Partnerships



- ▶ Foreign Agricultural Service
 - Resourcesat-1 AWiFS
- ▶ Farm Service Agency
 - Common Land Unit “ground truth”
- ▶ US Geological Survey
 - National Land Cover Dataset
- ▶ US Geological Survey/ NASA
 - Landsat TM 5 & 7
 - MODIS



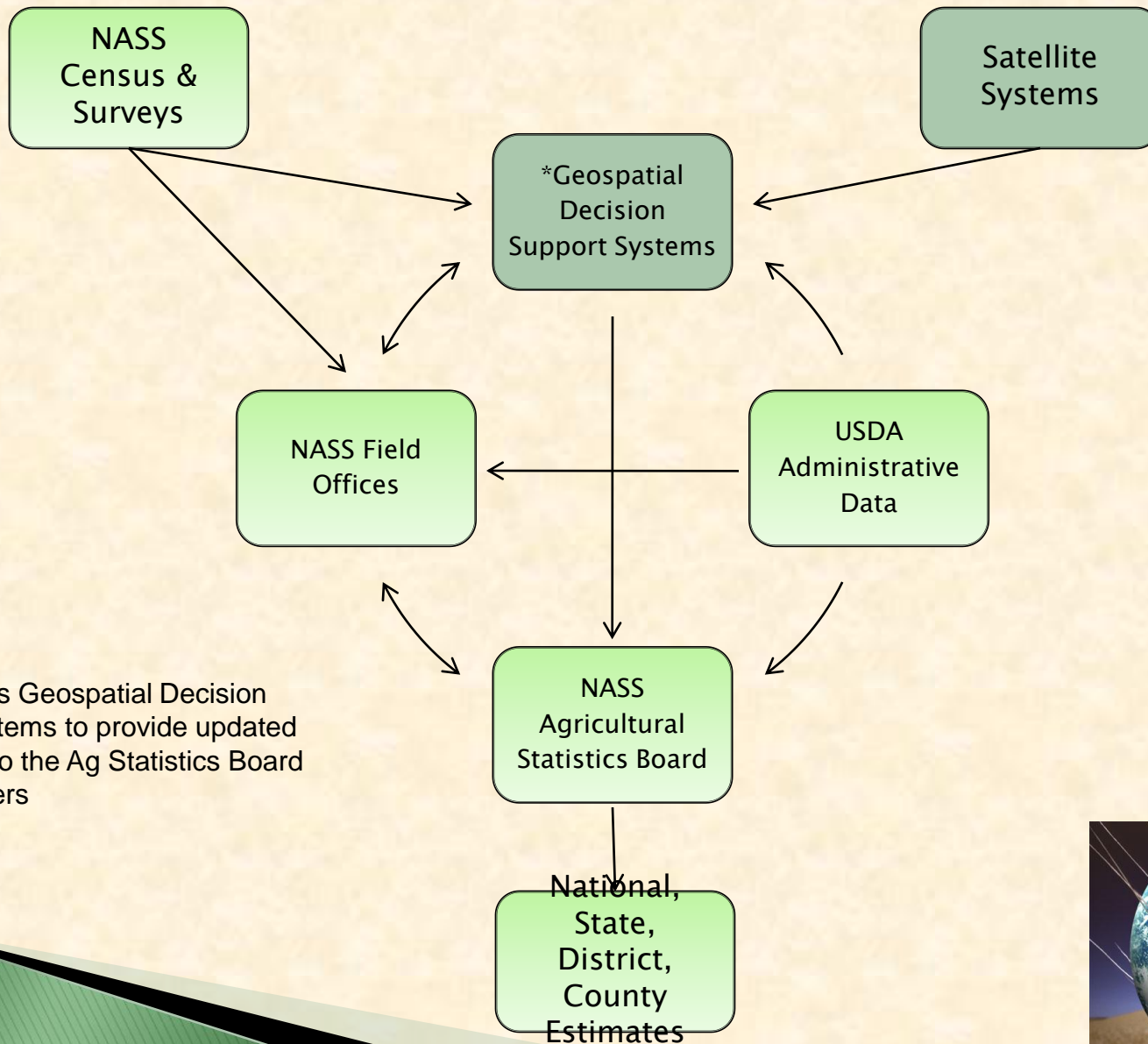
MRLC Consortium



Cropland Data Layer

- The CDL program has undergone major restructuring, reengineering and modernization the past few years.
- The new efficiencies allow for production of in-season crop acreage estimates, that were not previously possible with our older methods.
- The CDL is now able to deliver state/district/county estimates throughout the growing season starting with Winter Wheat for the June 30th Crop Acreage Report.
- Additional states are processed as the growing season progresses

NASS Estimation Systems



* NASS Uses Geospatial Decision Support Systems to provide updated information to the Ag Statistics Board and data users



2010 CDL Production Schedule

January						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

February						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						

March						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

April						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Acreage Report – Winter Wheat

May						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

June						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Crop Production Report – Corn & Soybeans

July						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

August						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Crop Production Report – CDL Cotton, Rice, & Peanuts

September						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

October						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

November						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

December						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Small Grains Summary

Crop Production Report – All Crops

Cropland Data Layer

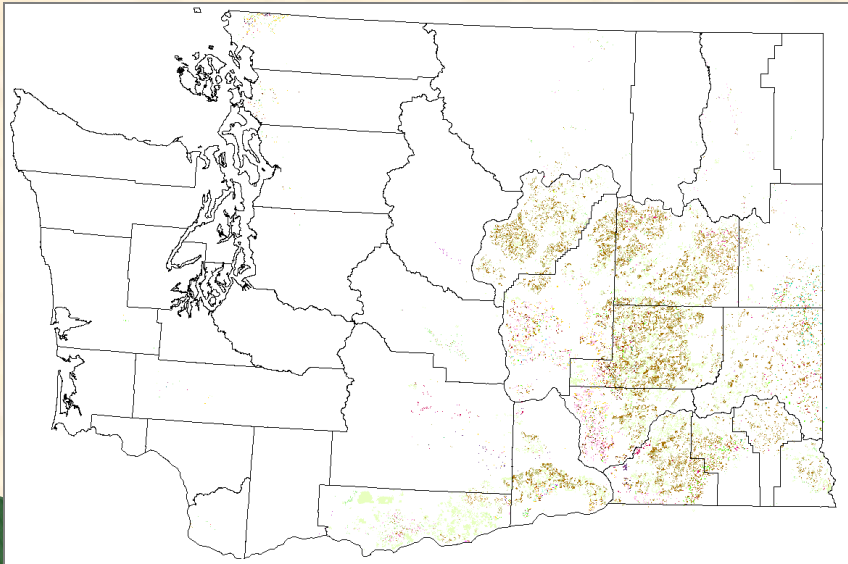
- ▶ The CLUs from the Farm Service Agency supply the agricultural data needed to distinguish between the different crop types in a particular state
- ▶ The National Land Cover Data (NLCD) is used to identify areas of urban infrastructure, like cities and roads, as well as land cover that is not considered agriculture, like forest, wetland or water

Ground Truth - Land Cover

Agriculture Ground Truth

Provided by Farm Service Agency
Identifies known fields and crops

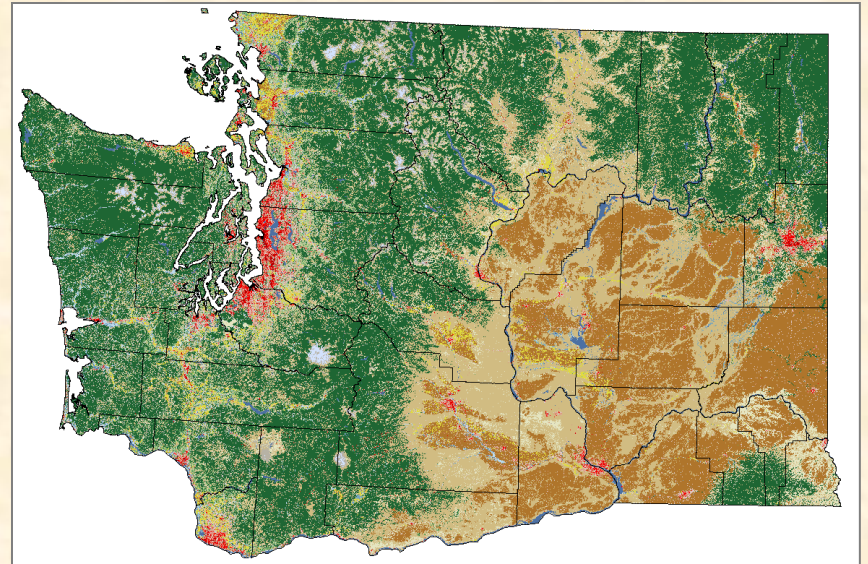
Divide known fields into 2 sets
70 % used for training software
30% used for validating results



Non-Agriculture Ground Truth

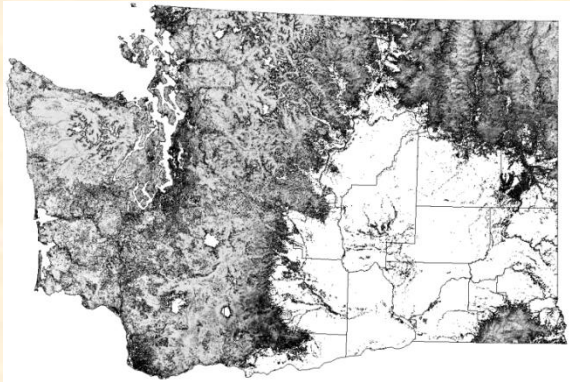
USGS National Land Cover Dataset

Identifies urban infrastructure and
non-agriculture land cover
Forest, grass, water, cities

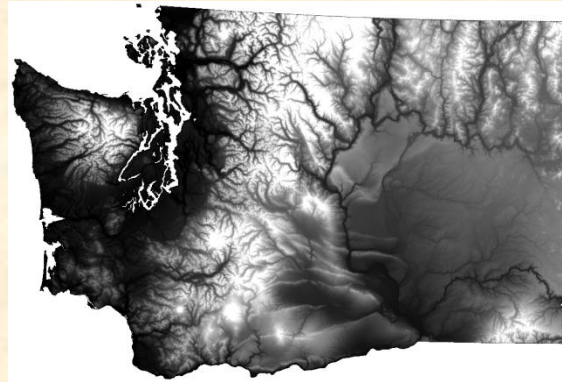


Ground Truth – Ancillary US Geological Survey

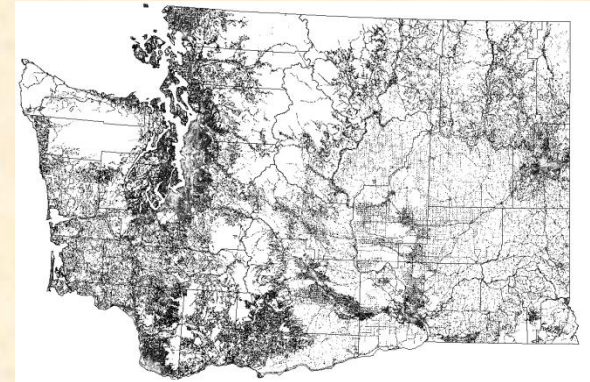
Forest Canopy



Elevation



Impervious Surfaces



Ancillary datasets help separate the agricultural landscape; determining agricultural potential

MODIS



16 Day MODIS NDVI composites are used to identify winter wheat fields or to fill in gaps where there is little satellite coverage.

CDL Processing Method

Sampling Done by

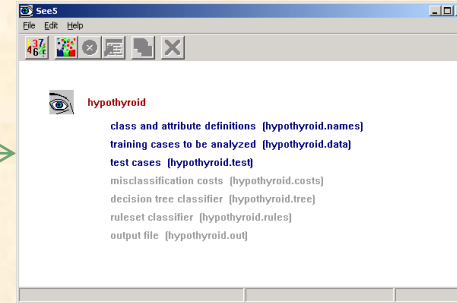
Satellite Imagery

Ancillary Data

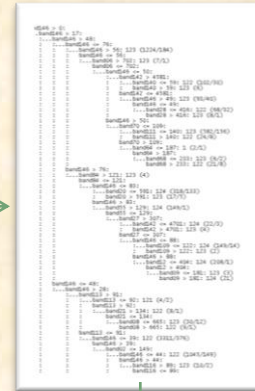
Ground Truth



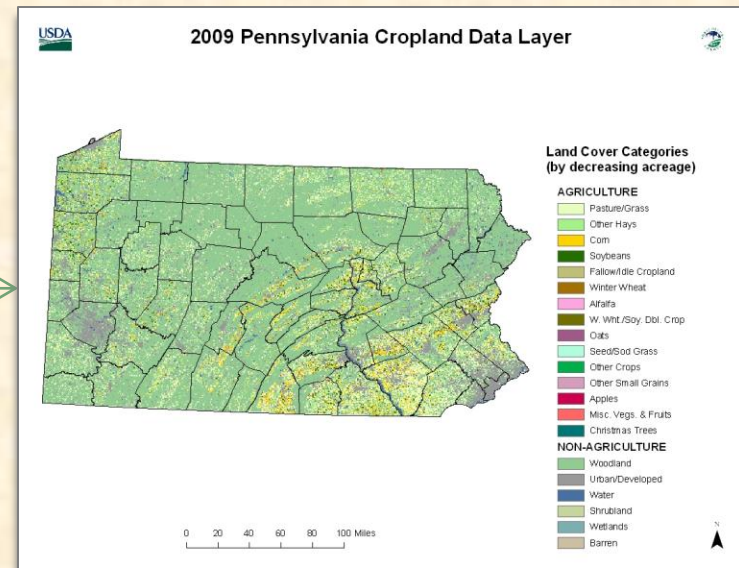
See5



Decision Tree



Classification





2009 North Dakota Cropland Data Layer



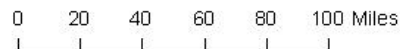
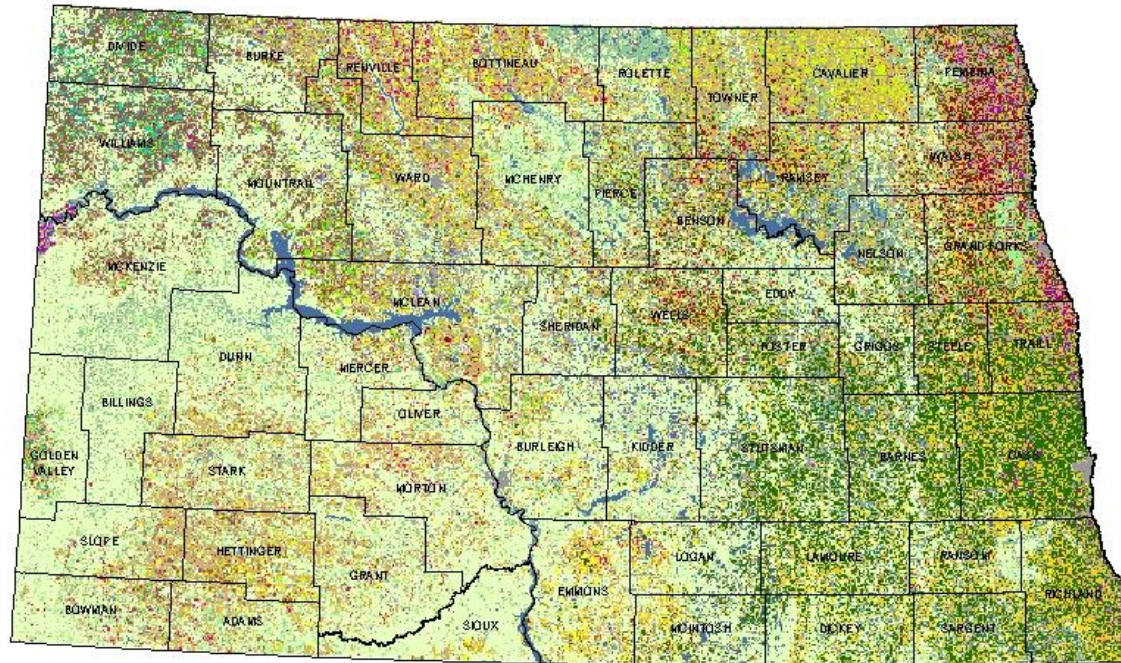
Land Cover Categories
(by decreasing acreage)

AGRICULTURE

- Pasture/Grass
- Spring Wheat
- Soybeans
- Other Hays
- Corn
- Durum Wheat
- Canola
- Sunflowers
- Dry Beans
- Barley
- Winter Wheat
- Peas
- Alfalfa
- Fallow/Idle Cropland
- Flaxseed
- Sugarbeets
- Lentils
- Oats
- Potatoes
- Other Crops/Vegs./Fruits
- Millet
- Safflower
- Sorghum
- Rye
- Seed/Sod Grass

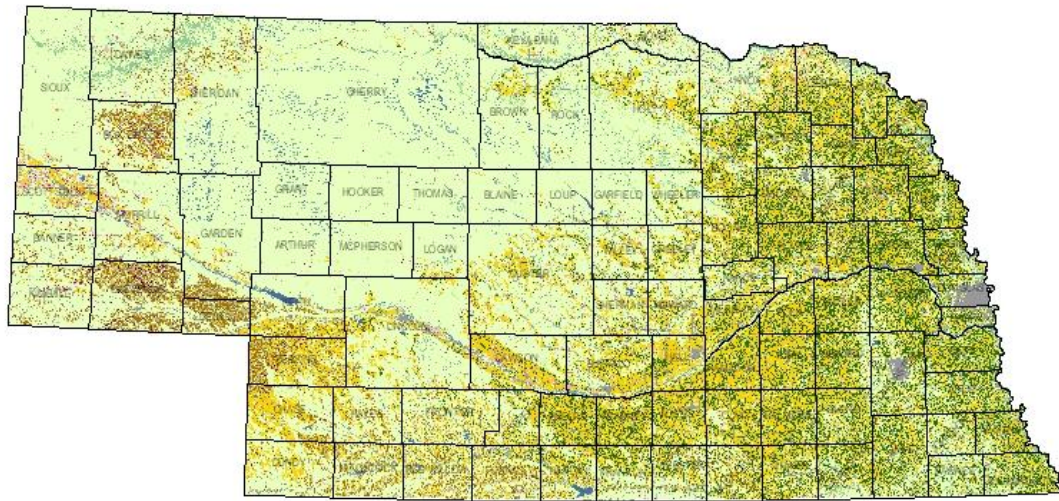
NON-AGRICULTURE

- Urban/Developed
- Wetlands
- Water
- Woodland
- Shrubland
- Barren





2009 Nebraska Cropland Data Layer









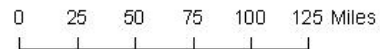
Land Cover Categories (by decreasing acreage)

AGRICULTURE

-  Pasture/Grass
-  Corn
-  Soybeans/Dbi. Crop. Soy.
-  Winter Wheat
-  Fallow/Idle Cropland
-  Alfalfa
-  Other Hays
-  Sorghum
-  Millet
-  Sugarbeets
-  Oats
-  Sunflowers
-  Potatoes
-  Other Small Grains
-  Rye
-  Other Crops/Vegs./Fruits

NON-AGRICULTURE

-  Urban/Developed
-  Woodland
-  Wetlands
-  Water
-  Barren
-  Shrubland





2009 Ohio Cropland Data Layer



Land Cover Categories (by decreasing acreage)

AGRICULTURE

- Pasture/Grass
- Soybeans
- Corn
- Winter Wheat
- Other Hays
- Alfalfa
- W. Wht./Soy. Dbl. Crop
- Fallow/dle Cropland
- Misc. Veggies. & Fruits
- Clover/Wildflowers
- Other Crops
- Oats

NON-AGRICULTURE

- Woodland
- Urban/Developed
- Water
- Wetlands
- Barren
- Shrubland

0 10 20 30 40 50 Miles

















2009 Arkansas Cropland Data Layer









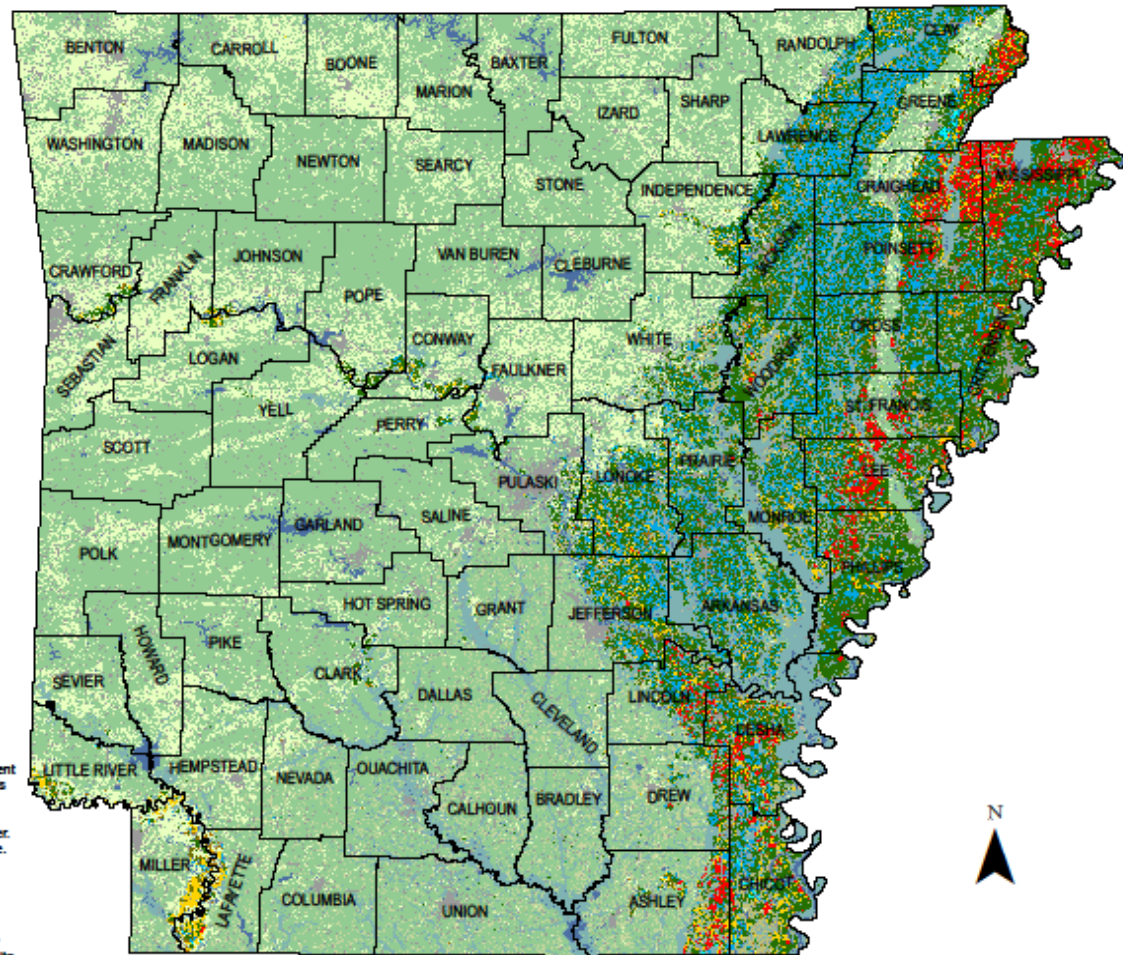
Land Cover Categories (by decreasing acreage)

AGRICULTURE

-  Pasture/Grass
-  Soybeans
-  Rice
-  Cotton
-  Fallow/Idle Cropland
-  Corn
-  W. Wht./Soy. Dbl. Crop
-  Winter Wheat
-  Sorghum
-  Aquaculture
-  Other Crops/Vegs. & Fruits
-  Other Tree Nuts

NON-AGRICULTURE

-  Woodland
-  Wetlands
-  Urban/Developed
-  Shrubland
-  Water
-  Barren

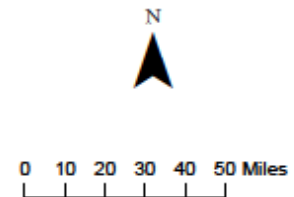


Produced by: U. S. Department of Agriculture, National Agricultural Statistics Service, Research and Development Division, Geospatial Information Branch, Spatial Analysis Research Section.

Data Source: Resourcesat-1 AWFS courtesy of USDA Foreign Agricultural Service, Landsat 5 Thematic Mapper. Image Processing: Rulequest SeeS and ERDAS Imagine. Ground Truth: The Farm Service Agency Common Land Unit for crops classes, and 2001 National Land Cover Dataset (NLCD) for non-agricultural classes.

Ancillary Data: NLCD Impervious Surface, NLCD Forest Canopy, National Elevation Dataset, and Moderate Resolution Imagery Spectroradiometer (MODIS) 16 day Normalized Difference Vegetation Index (NDVI) composite.

Projection: UTM zone 15, WGS84 datum.
Map Production: ESRI ArcGIS 9.3.1.



2009 Cropland Data Layer New England and Eastern States

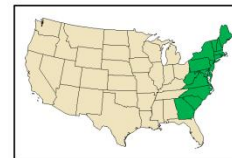
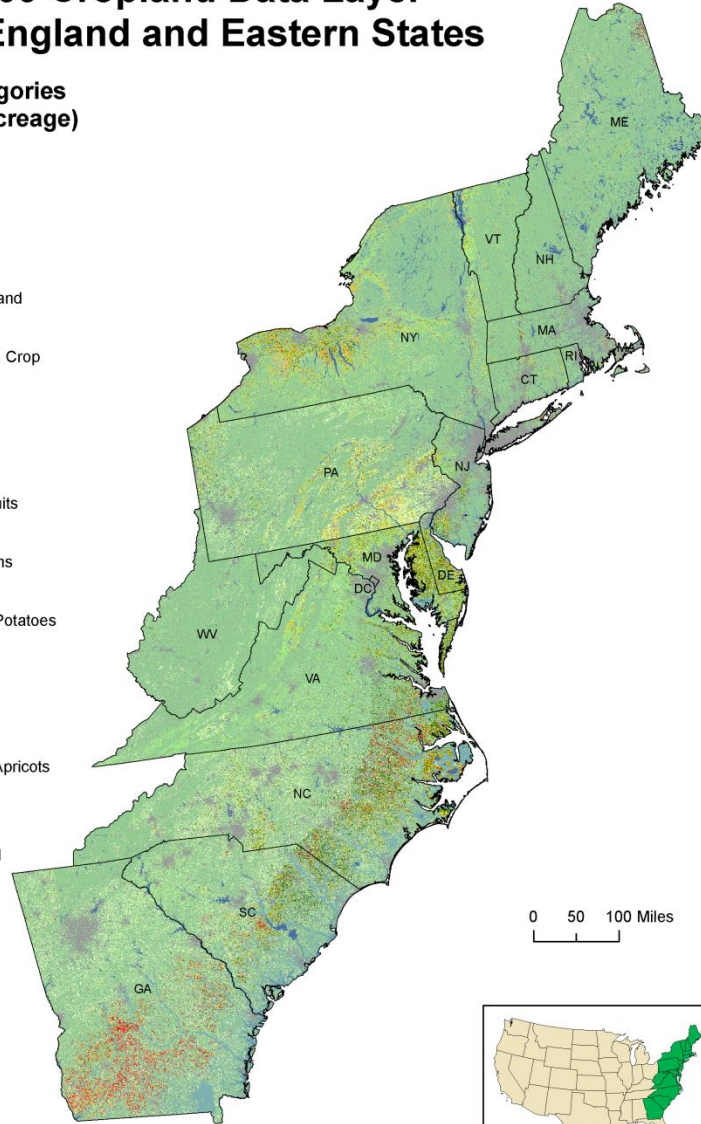
Land Cover Categories
(by decreasing acreage)

Agriculture

- Pasture/Grass
- Other Hays
- Corn
- Soybeans
- Fallow/Idle Cropland
- Cotton
- W. Wht./Soy. Dbl. Crop
- Peanuts
- Winter Wheat
- Alfalfa
- Other Tree Nuts
- Misc. Veggies. & Fruits
- Seed/Sod Grass
- Other Small Grains
- Oats
- Potatoes/Sweet Potatoes
- Blueberry
- Other Crops
- Apples/Cherries
- Dry Beans
- Peaches/Plums/Apricots

Non-Agriculture

- Woodland
- Urban/Developed
- Wetlands
- Water
- Shrubland
- Barren

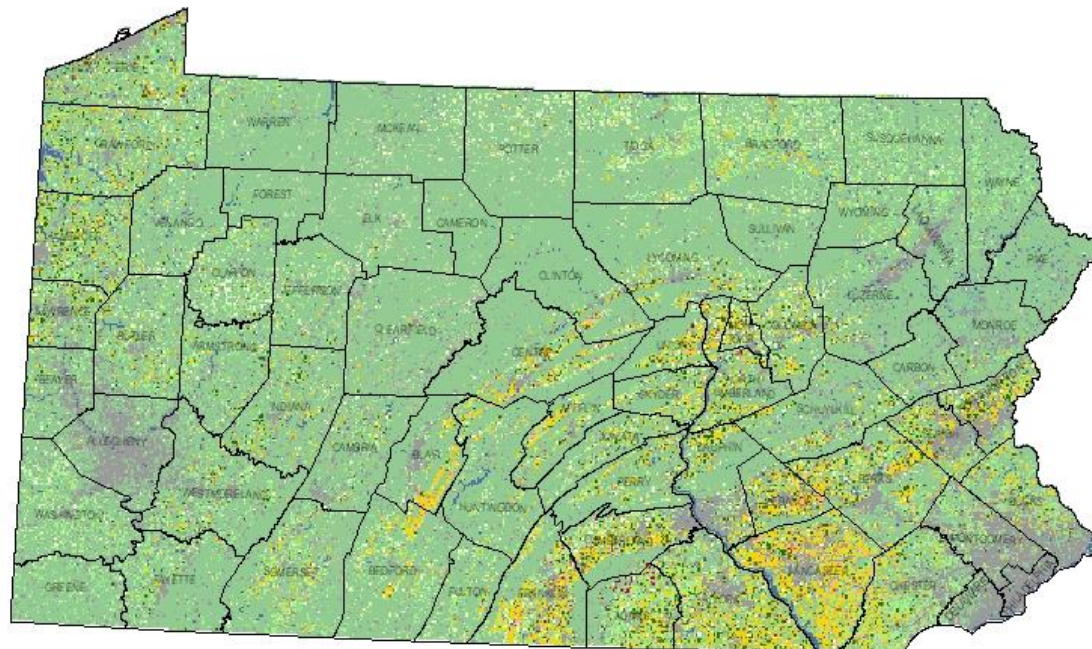




2009 Pennsylvania Cropland Data Layer



Land Cover Categories (by decreasing acreage)

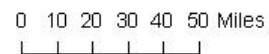


AGRICULTURE

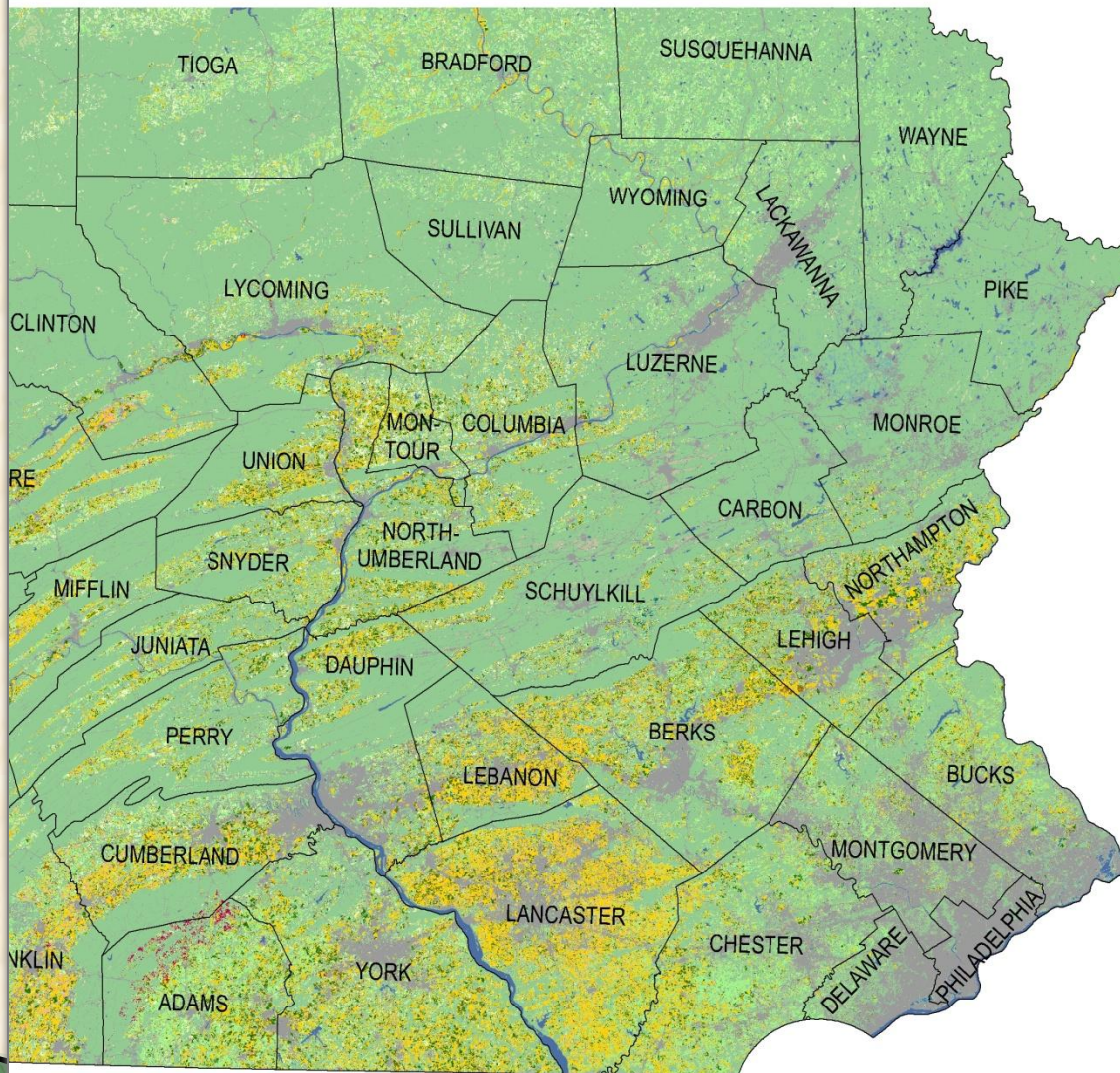
- Other Hay
- Com
- Pasture/Grass
- Soybeans
- Fallow/Idle Cropland
- Winter Wheat
- Alfalfa
- Dbl. Crop WinWht/Soy
- Oats
- Apples
- Christmas Trees
- Sod/Grass Seed
- Misc. Vegs. & Fruits
- Barley
- Other Crops
- Dry Beans
- Other Small Grains
- Other Tree Nuts

NON-AGRICULTURE

- Woodland
- Urban/Developed
- Water
- Barren
- Shrubland
- Wetlands



2009 Pennsylvania Cropland Data Layer



Land Cover Categories (by decreasing acreage)

AGRICULTURE

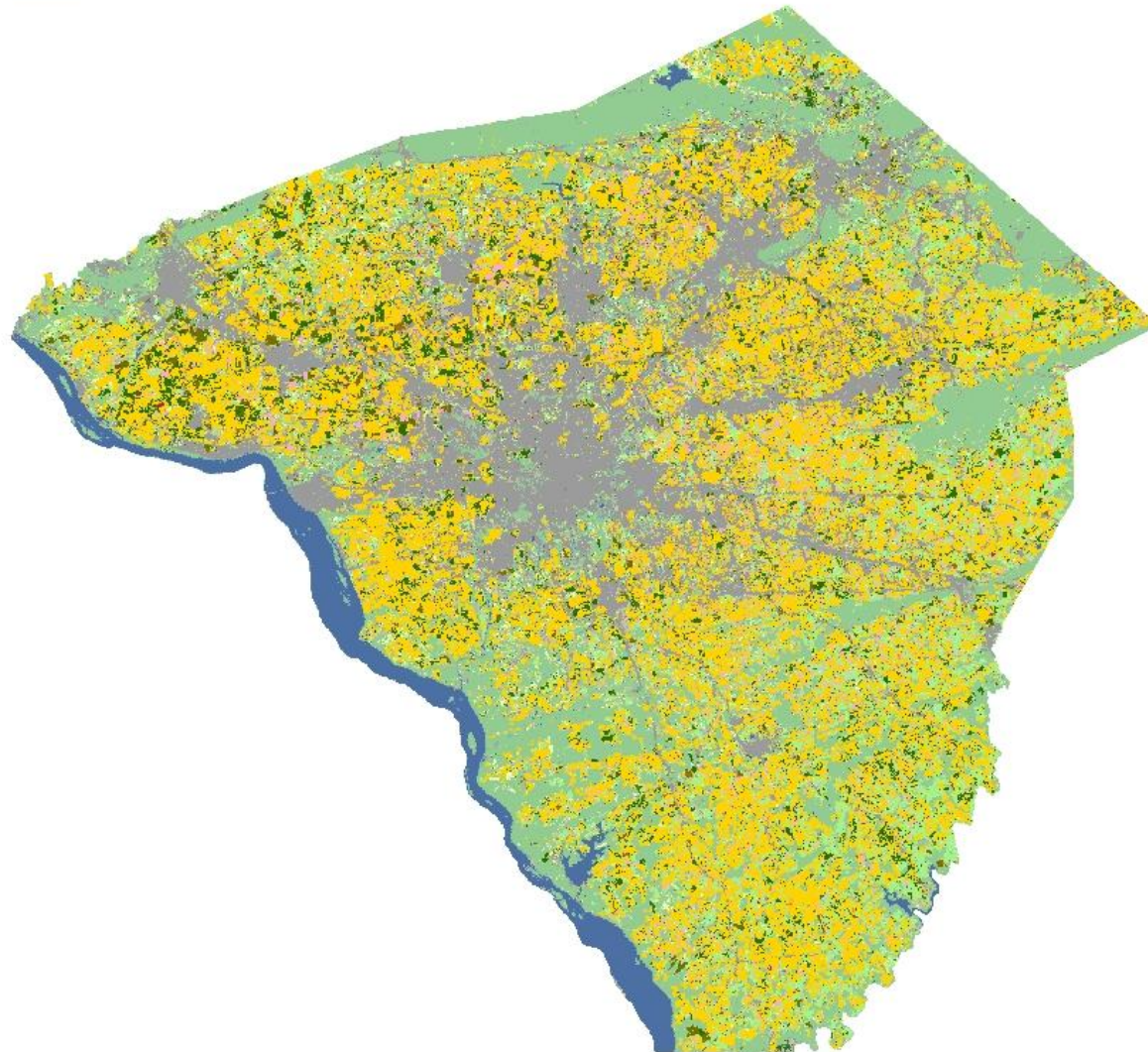
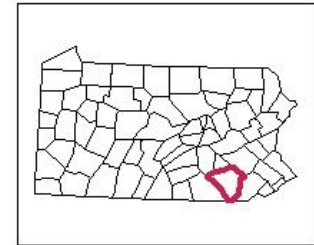
- Other Hay
- Corn
- Pasture/Grass
- Soybeans
- Fallow/Idle Cropland
- Winter Wheat
- Alfalfa
- Dbl. Crop WinWht/Soy
- Oats
- Apples
- Christmas Trees
- Sod/Grass Seed
- Misc. Veggies. & Fruits
- Barley
- Other Crops
- Dry Beans
- Other Small Grains
- Other Tree Nuts

NON-AGRICULTURE

- Woodland
- Urban/Developed
- Water
- Barren
- Shrubland
- Wetlands



2009 Lancaster County, Pennsylvania



Land Cover Categories

AGRICULTURE

- Other Hay
- Corn
- Pasture/Grass
- Soybeans
- Fallow/Idle Cropland
- Winter Wheat
- Alfalfa
- Dbl. Crop WinWht/Soy
- Oats
- Apples
- Christmas Trees
- Sod/Grass Seed
- Misc. Vegs. & Fruits
- Barley
- Other Crops
- Dry Beans
- Other Small Grains
- Other Tree Nuts

NON-AGRICULTURE

- Woodland
- Urban/Developed
- Water
- Barren
- Shrubland
- Wetlands



Cropland Data Layer Summary

▶ Operational Program

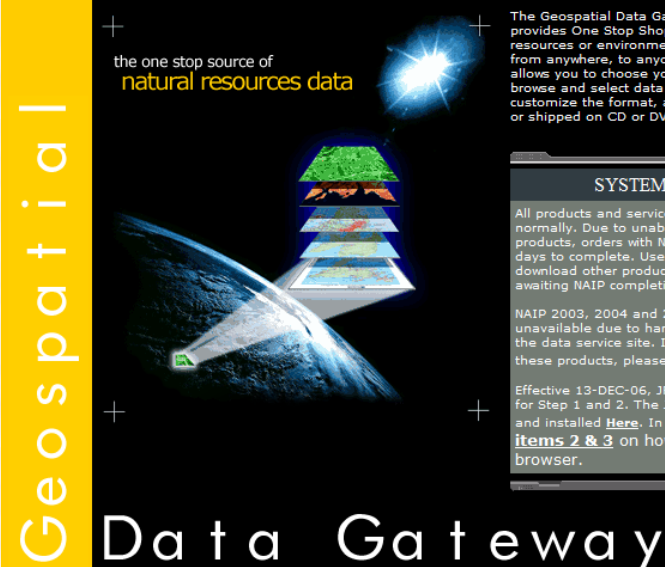
- Early delivery of estimates
- Provides measureable statistical error
- Results used for setting national acreage estimate

▶ Components

- AWiFS/Landsat imagery
- Farm Service Agency
- Commercial Software
- June Agricultural Survey

▶ Distribution

- datagateway.nrcs.usda.gov



The Geospatial Data Gateway provides One Stop Shopping for natural resources or environmental data from anywhere, to anywhere. It allows you to choose your data, browse and select data, customize the format, and have it shipped on CD or DVD.

the one stop source of
natural resources data

Geospatial

SYSTEM


All products and services are available normally. Due to unavailability of products, orders with 14 days to complete. Use the download other products awaiting NAIP completion.

NAIP 2003, 2004 and 2005 are unavailable due to hardware issues at the data service site. In these products, please use the data service site.

Effective 13-DEC-06, JPL is responsible for Step 1 and 2. The data is available and installed [Here](#). In [Items 2 & 3](#) on home page.

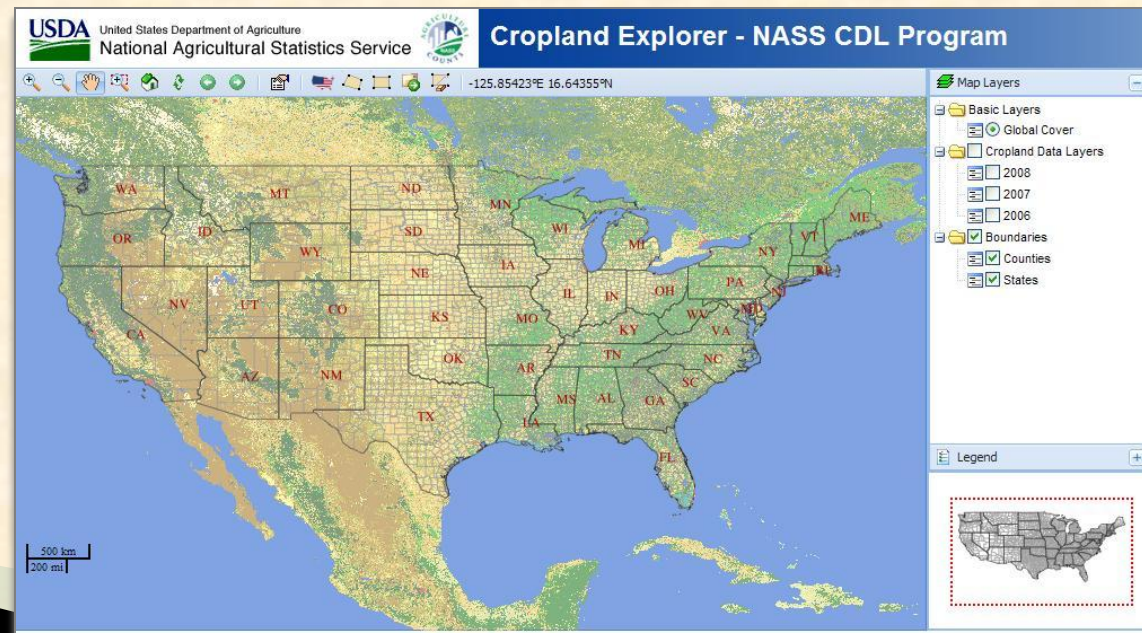
Data Gateway

CDL Program

- ▶ CDL program paramount to other NASS geospatial activities
 - ▶ Partnerships with cooperating agencies critical for success
 - ▶ Heavy reliance on satellites and information technology
 - ▶ Timely delivery of geospatial data and statistical information are critical
- 

CDL Future

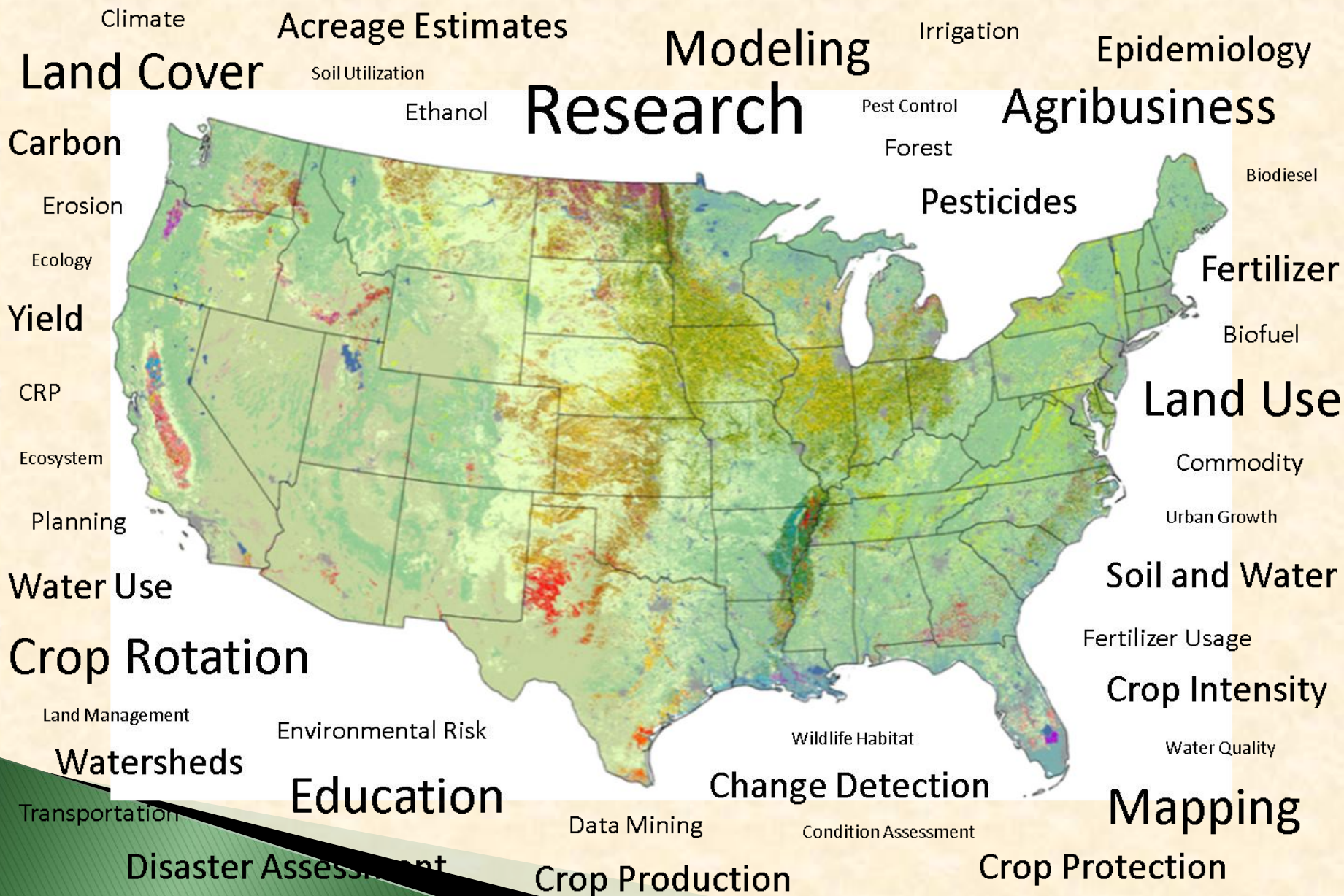
- ▶ National CDL crop year 2010
 - ▶ Released Jan 2011
- ▶ Fund Geospatial CDL portal
 - ▶ George Mason University/Center for Spatial Information Science and Systems
- ▶ National Commodity Crop Productivity Index
 - ▶ NRCS dynamic soils layer



Cropland Data Layer Uses

- ▶ Watershed runoff modeling
- ▶ Agribusiness planning
- ▶ Ground truth
- ▶ Change detection
- ▶ Water use mapping
- ▶ Epidemiological research
- ▶ Habitat monitoring
- ▶ Carbon sequestration analysis
- ▶and more

NASS Cropland Data Layer Applications



Summary

- ▶ **County Estimates**
 - Accessing NASS County maps and County data
- ▶ **Census of Agriculture**
 - Accessing AgAtlas maps and Census data
- ▶ **Vegetation Condition**
 - Accessing vegetation condition maps
- ▶ **Cropland Data Layer**
 - Accessing the CDL from the NRCS Geospatial Gateway

