

**Agricultural Outlook Forum
Crystal Gateway Marriott Hotel
Arlington, Virginia
February 22, 2013**

**Weather Outlook for 2013
"2012 Weather Review"**

Brad Rippey

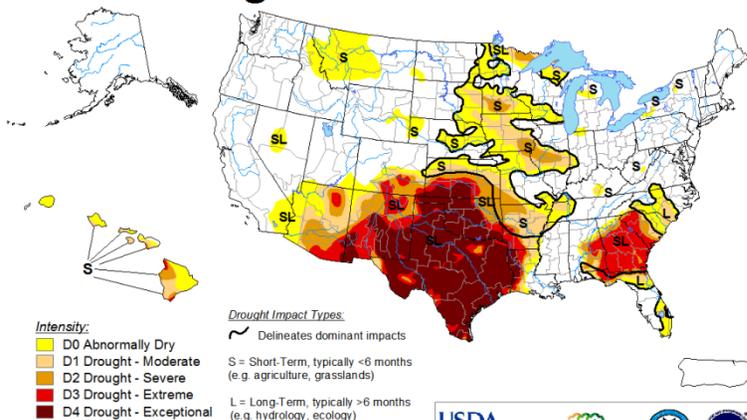
USDA Meteorologist

Washington, D.C.



Drought Evolution, 2010 to Present

U.S. Drought Monitor October 4, 2011 Valid 8 a.m. EDT



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically <6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically >6 months (e.g. hydrology, ecology)

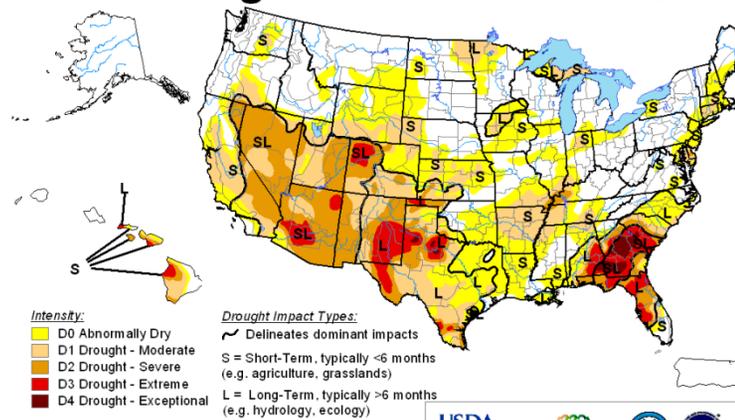
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



Released Thursday, October 6, 2011

<http://droughtmonitor.unl.edu/> Author: Rich Tinker, Climate Prediction Center NCEP/NWS/NOAA

U.S. Drought Monitor May 29, 2012 Valid 7 a.m. EDT



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

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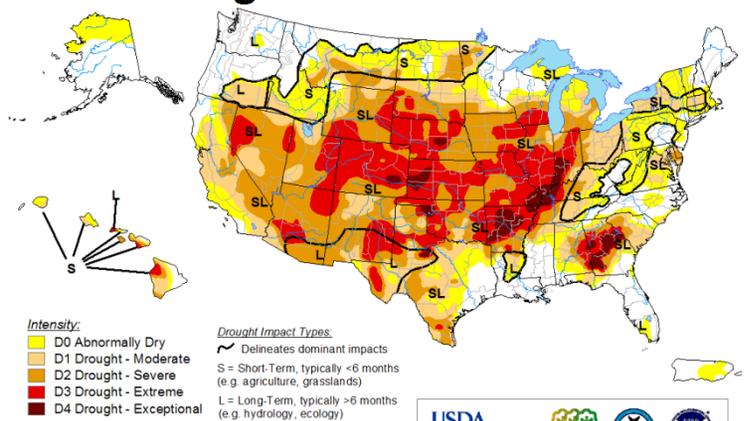
Released Thursday, May 31, 2012

<http://droughtmonitor.unl.edu/> Author: Brad Rippey, U.S. Department of Agriculture

La Niña-Driven Drought, 2010-11

N. Atlantic Jet, Winter/Spring 2011-12

U.S. Drought Monitor July 24, 2012 Valid 7 a.m. EDT



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:

- ~ Delineates dominant impacts
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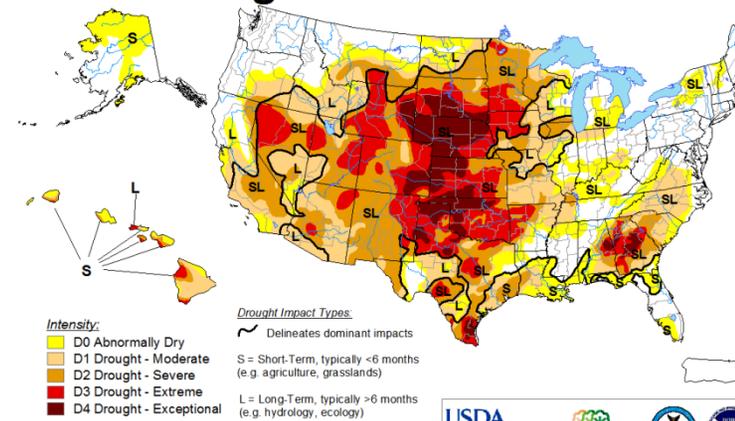
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



Released Thursday, July 26, 2012

<http://droughtmonitor.unl.edu/> Author: Richard Heim NOAA/NESDIS/NCDC

U.S. Drought Monitor December 4, 2012 Valid 7 a.m. EST



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically <6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically >6 months (e.g. hydrology, ecology)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



Released Thursday, December 6, 2012

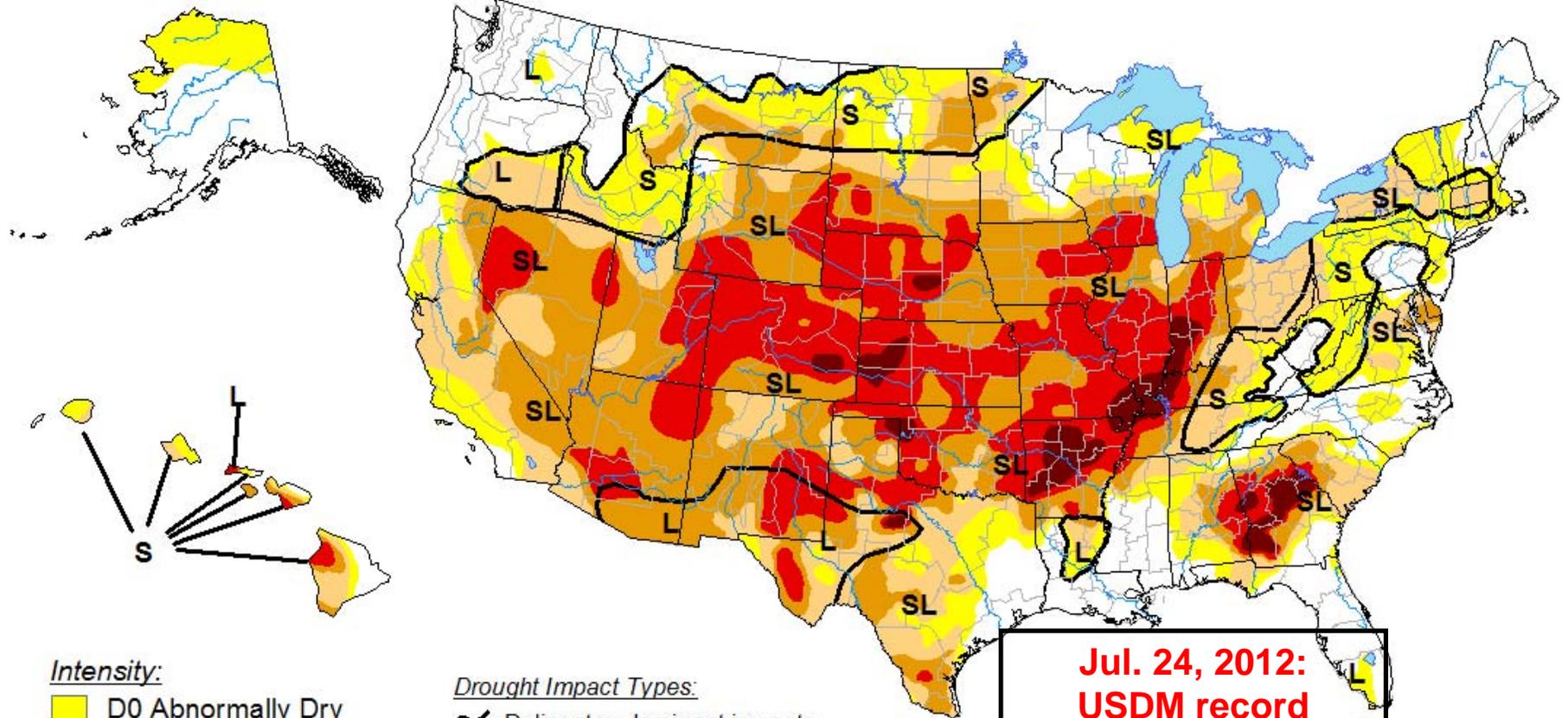
<http://droughtmonitor.unl.edu/> Author: Rich Tinker, NOAA/NWS/NCEP/CPD

North Atlantic Block, Summer 2012

Erratic Weather, Late 2012, Early 2013

U.S. Drought Monitor

July 24, 2012
Valid 7 a.m. EDT



Intensity:

-  D0 Abnormally Dry
-  D1 Drought - Moderate
-  D2 Drought - Severe
-  D3 Drought - Extreme
-  D4 Drought - Exceptional

Drought Impact Types:

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- L = Long-Term, typically >6 months (e.g. hydrology, ecology)

**Jul. 24, 2012:
USDM record
with 63.86% of
CONUS in drought.**

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu/>

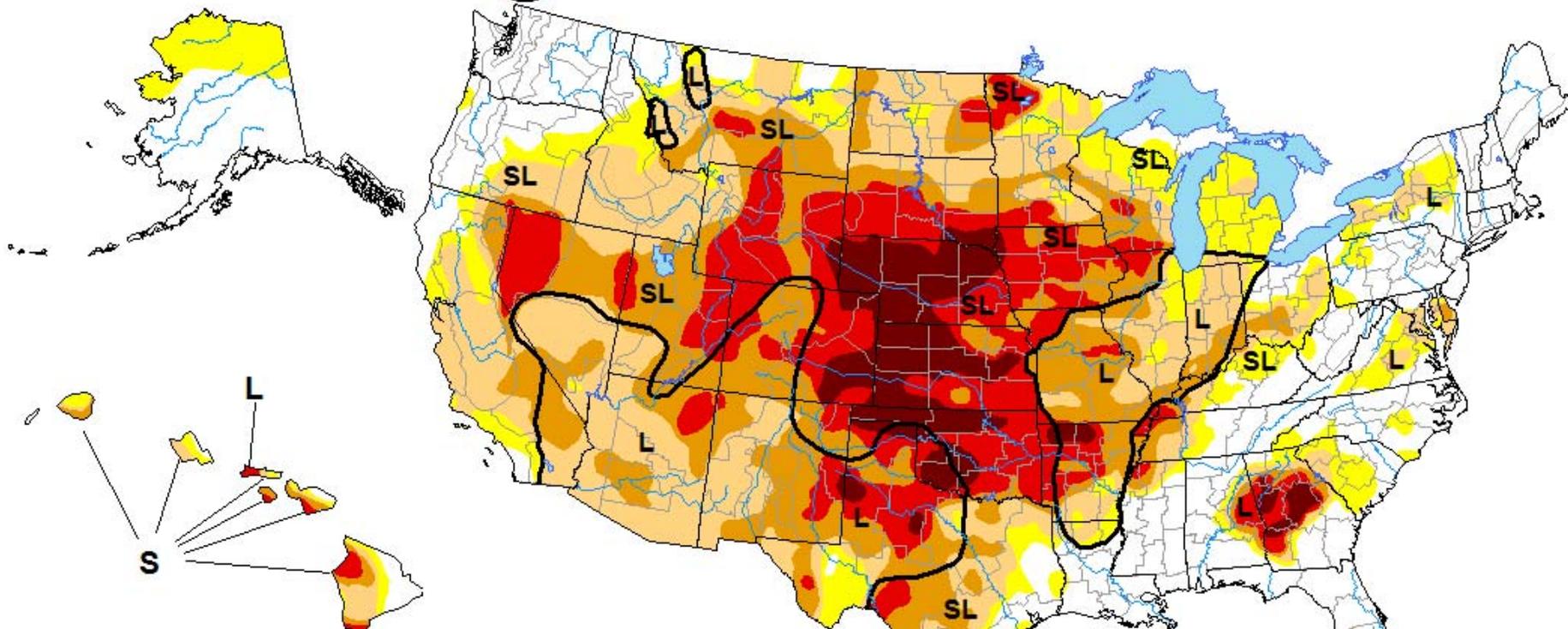


Released Thursday, July 26, 2012
Author: Richard Heim NOAA/NESDIS/NCDC

U.S. Drought Monitor

September 25, 2012

Valid 8 a.m. EDT



Intensity:

-  D0 Abnormally Dry
-  D1 Drought - Moderate
-  D2 Drought - Severe
-  D3 Drought - Extreme
-  D4 Drought - Exceptional

Drought Impact Types:

-  Delineates dominant impacts
- S = Short-Term, typically <6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically >6 months (e.g. hydrology, ecology)

**Sep. 25, 2012:
USDM record
with 65.45% of
CONUS in drought.**

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu/>

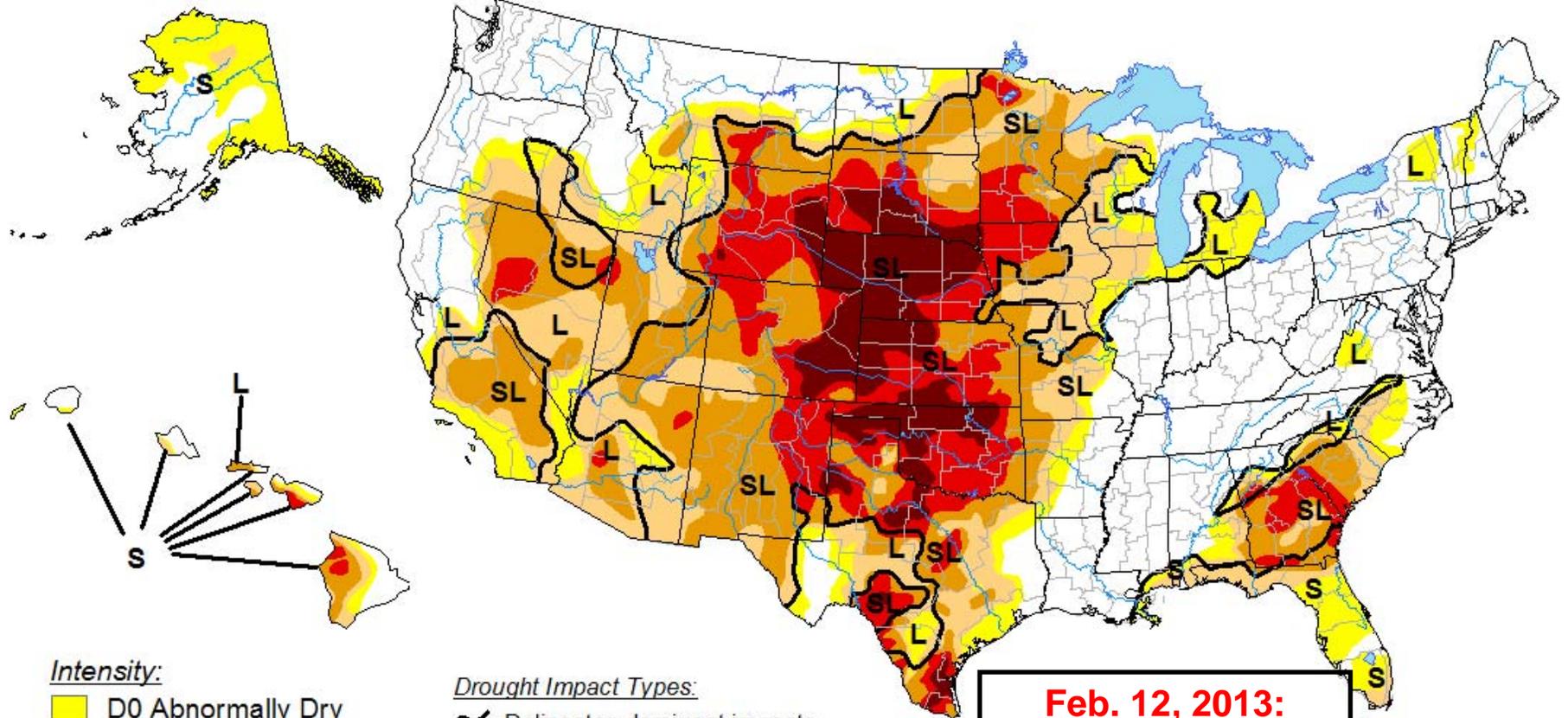


Released Thursday, September 27, 2012

Author: Anthony Artusa, NOAA/NWS/NCEP/CPC

U.S. Drought Monitor

February 12, 2013
Valid 7 a.m. EDT



Intensity:

-  D0 Abnormally Dry
-  D1 Drought - Moderate
-  D2 Drought - Severe
-  D3 Drought - Extreme
-  D4 Drought - Exceptional

Drought Impact Types:

-  Delineates dominant impacts
- S = Short-Term, typically <6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically >6 months (e.g. hydrology, ecology)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu/>



Released Thursday, February 14, 2013

Author: Michael Brewer/Liz Love-Brotak NOAA/NESDIS/NCDC

Percentiles and the U.S. Drought Monitor

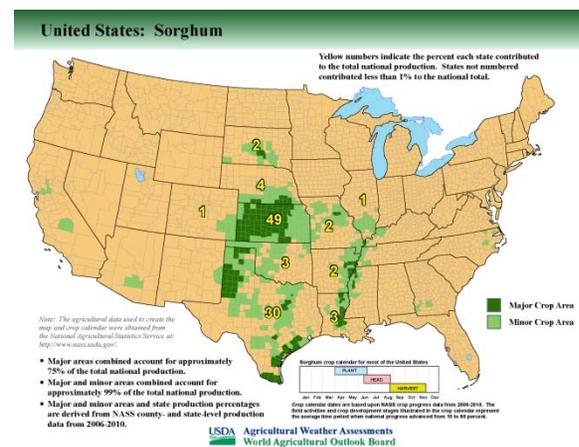
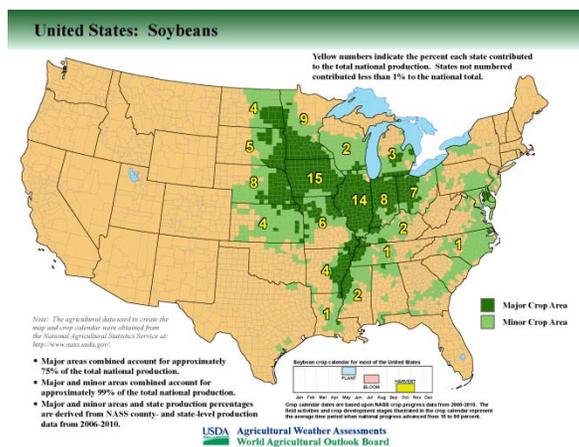
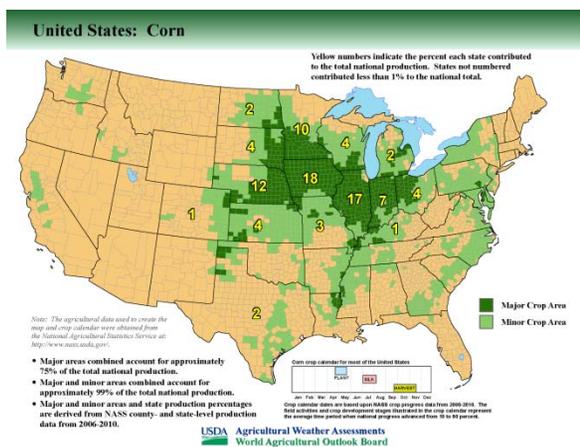
- Advantages of percentiles:
 - Can be applied to any parameter
 - Can be used for any length of data record
 - Puts drought in historical perspective
- D4, Exceptional Drought:  once per 50 to 100 years
- D3, Extreme Drought:  once per 20 to 50 years
- D2, Severe Drought:  once per 10 to 20 years
- D1, Moderate Drought:  once per 5 to 10 years
- D0, Abnormally Dry:  once per 3 to 5 years



U.S. Crop Production Highlights

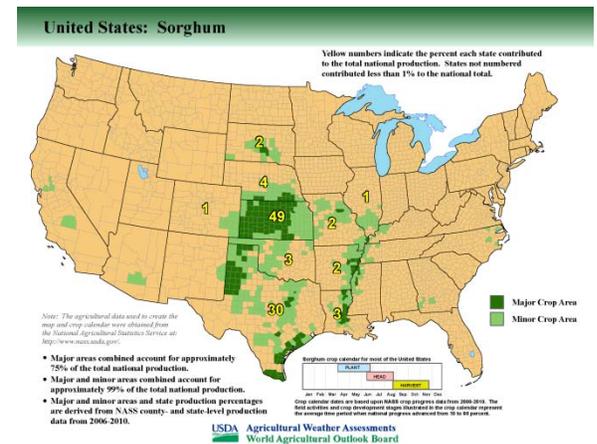
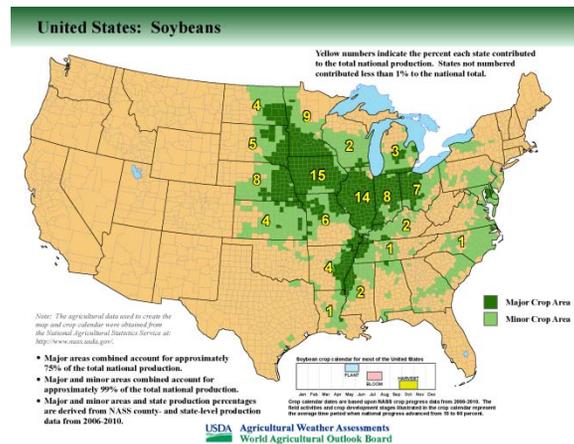
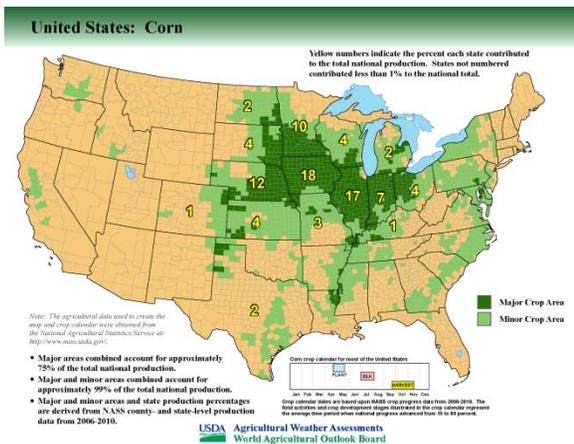
January 11, 2013

- **Corn**: 123.4 bushels/acre, down 26% from 166.0 bushels/acre in June.
- **Soybeans**: 39.6 bushels/acre, down 10% from 43.9 bushels/acre in June.
- **Sorghum**: 49.8 bushels/acre, down 23% from 65.0 bushels/acre in June.

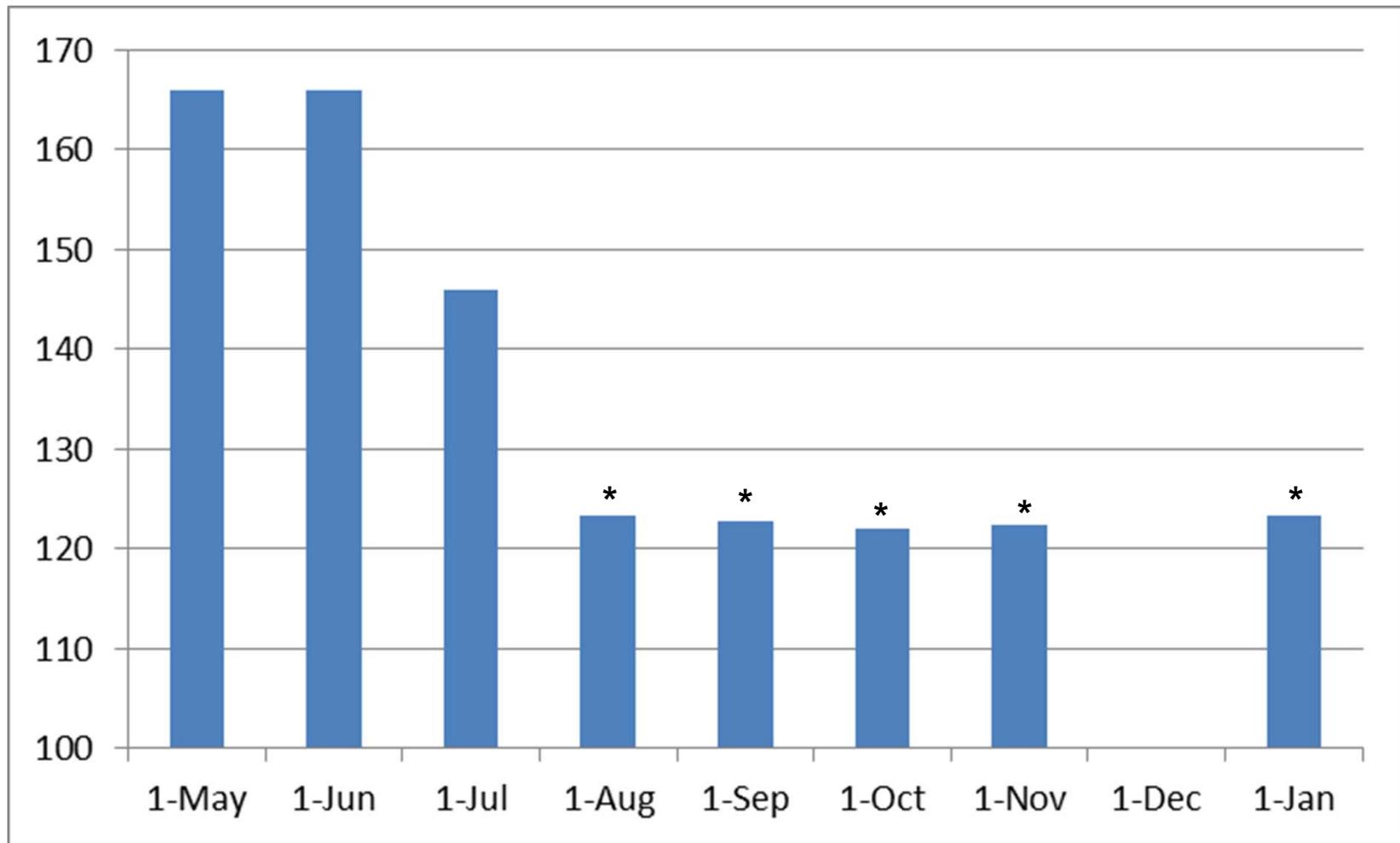


Crop Production Highlights, Continued

- **Corn**: Production is down nearly 4.0 billion bushels (27%) from June to 10.8 billion bushels.
- **Soybeans**: Production is down 194 million bushels (6%) from June to 3.01 billion bushels.
- **Sorghum**: Production is down 88 million bushels (26%) from June to 247 million bushels.



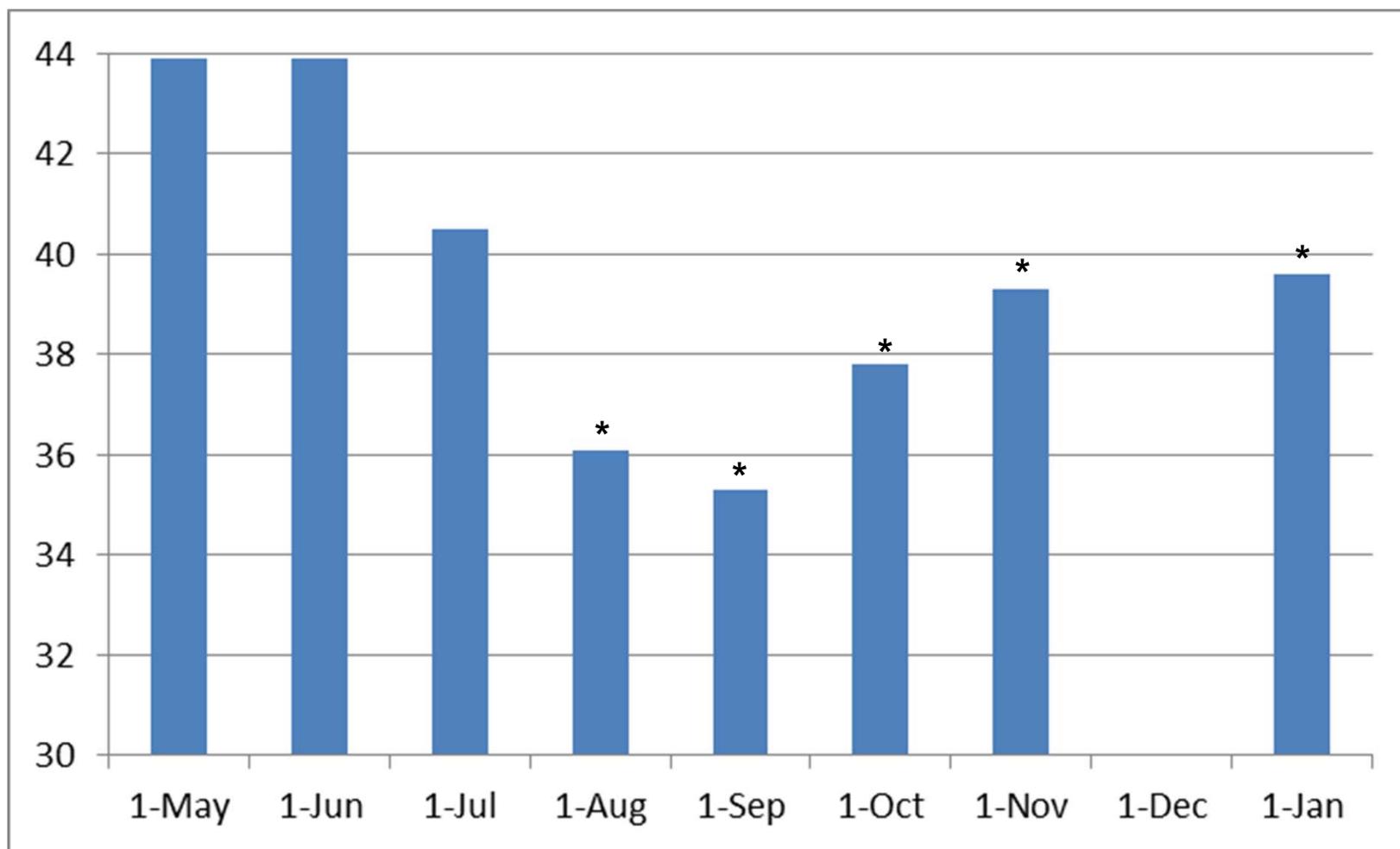
2012 U.S. Corn Yield Forecast (Bushels / Acre)



* Based on field surveys

Source: USDA

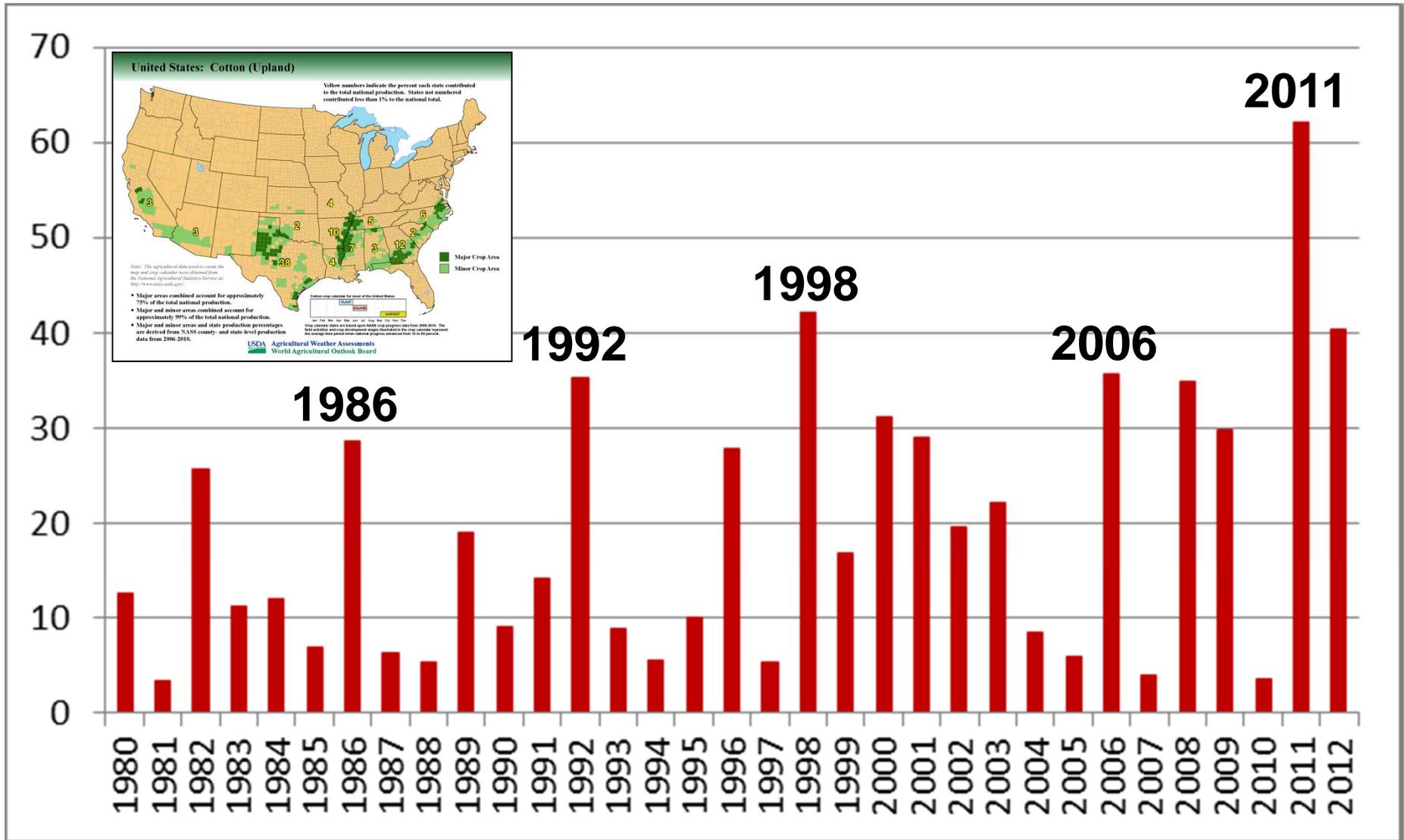
2012 U.S. Soybean Yield Forecast (Bushels / Acre)



* Based on field surveys

Source: USDA

Percent Texas Cotton Abandonment 1980-2012





McLean County, Illinois, July 26, 2012



Texas County, Okla., July 31, 2012



Polk County, Iowa, August 7, 2012



Ellis County, Kansas, July 6, 2012



**Kingfisher Co.,
Oklahoma,
Nov. 2012**

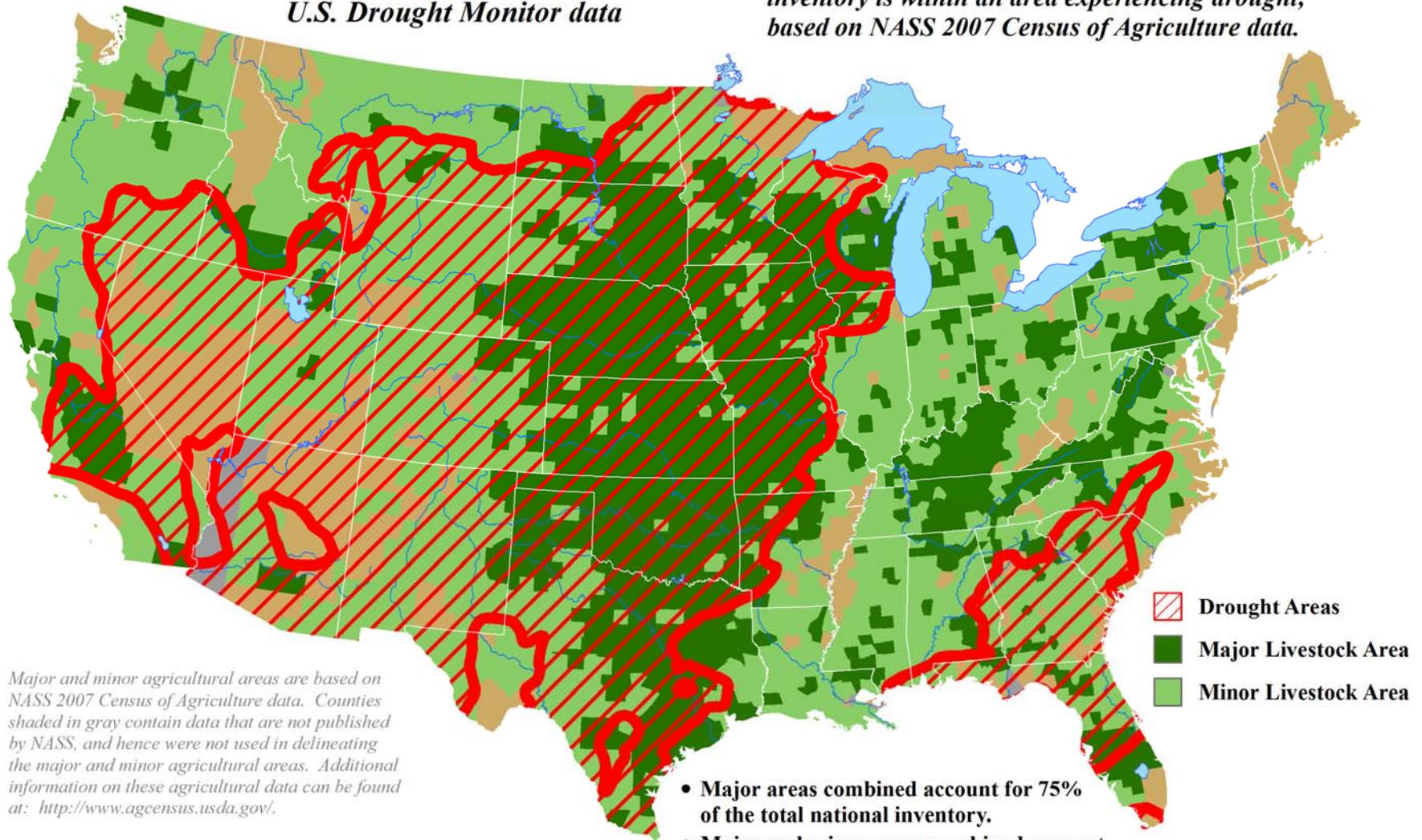
**Washington Co.,
Georgia,
Nov. 2012**



U.S. Cattle Areas Experiencing Drought

Reflects February 19, 2013
U.S. Drought Monitor data

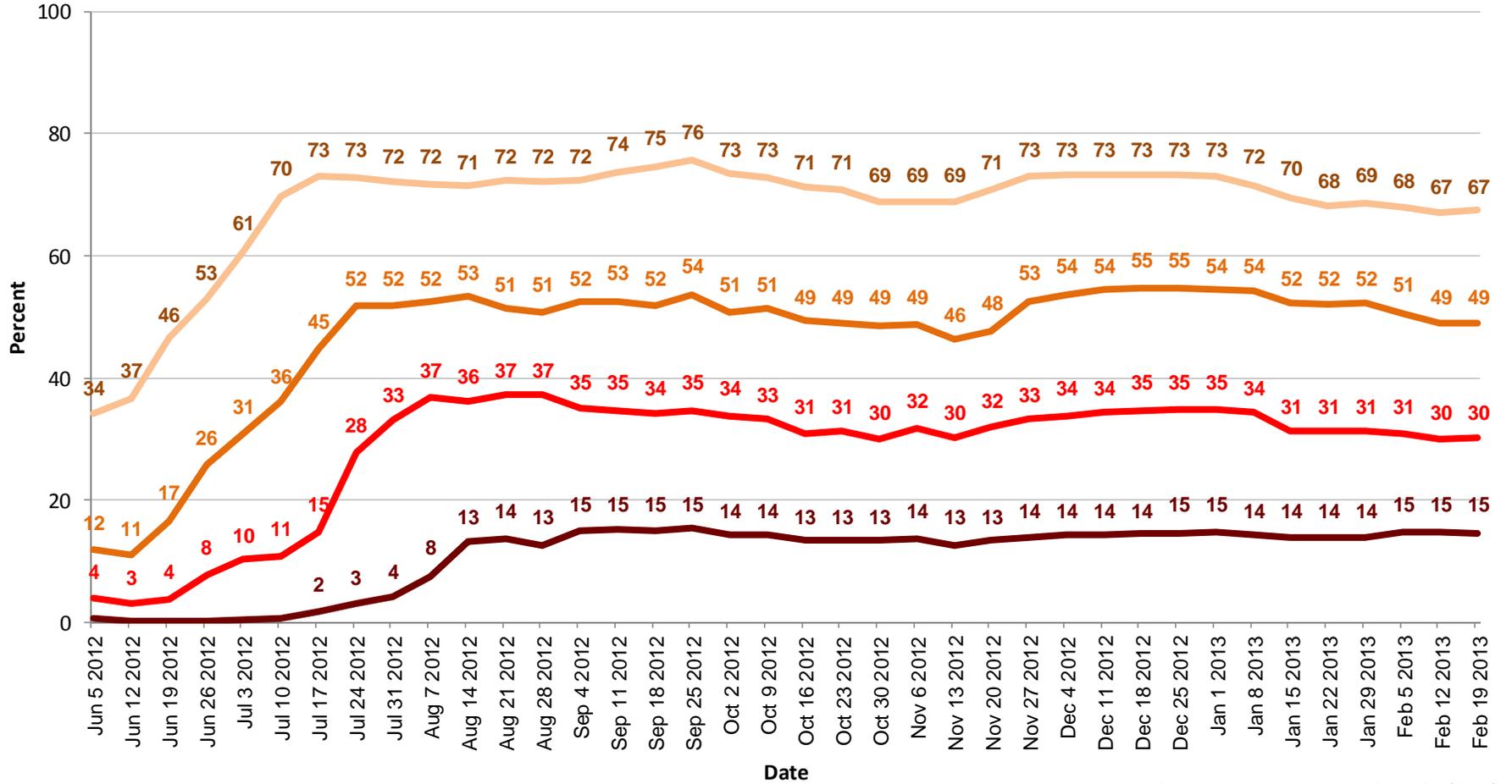
Approximately 67% of the domestic cattle
inventory is within an area experiencing drought,
based on NASS 2007 Census of Agriculture data.



Major and minor agricultural areas are based on NASS 2007 Census of Agriculture data. Counties shaded in gray contain data that are not published by NASS, and hence were not used in delineating the major and minor agricultural areas. Additional information on these agricultural data can be found at: <http://www.agcensus.usda.gov/>.

Mapped drought areas are derived from the U.S. Drought Monitor product and do not depict the intensity of drought in any particular location. More information on the Drought Monitor can be found at: <http://droughtmonitor.unl.edu/>.

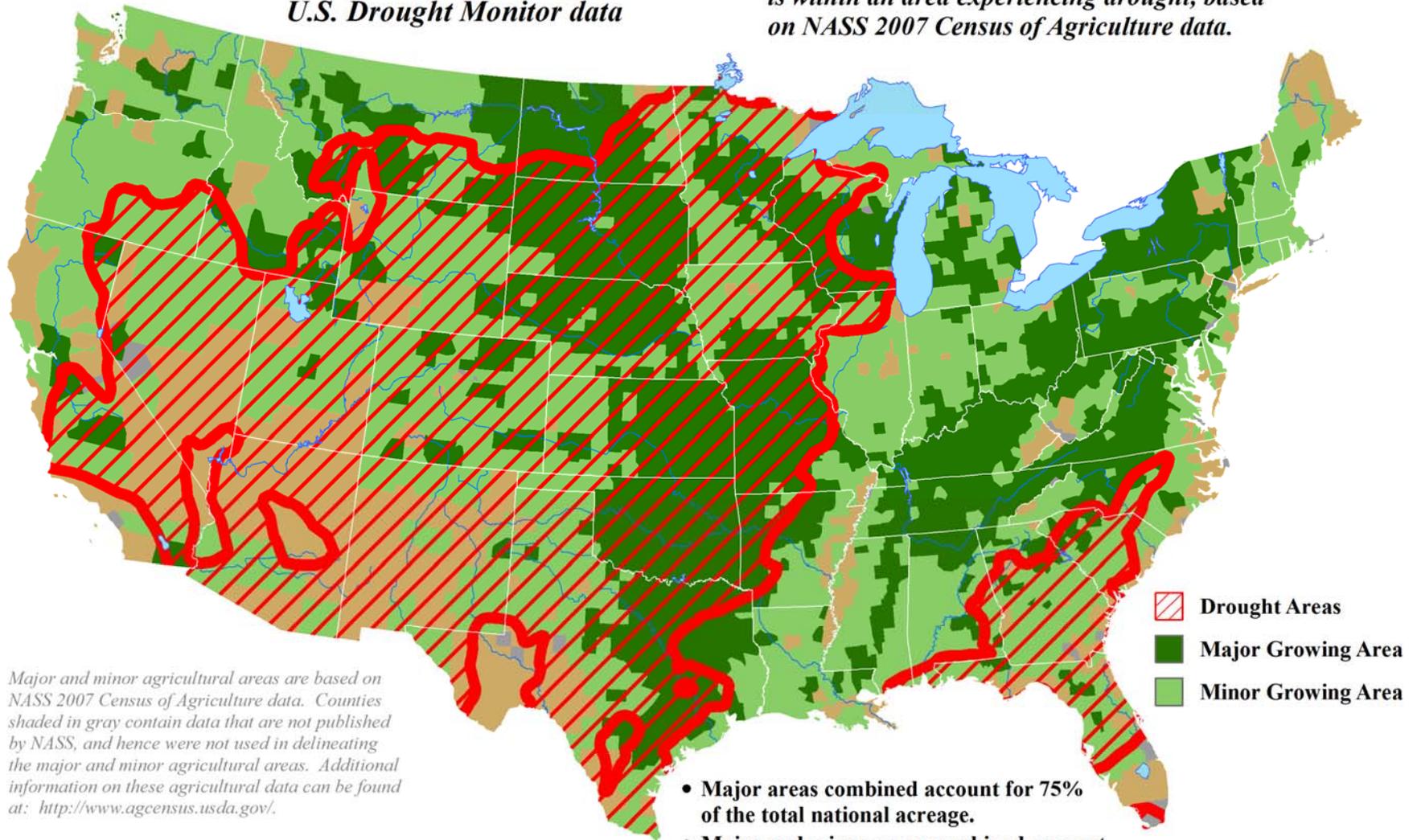
United States Cattle Areas Located in Drought



U.S. Hay Areas Experiencing Drought

Reflects February 19, 2013
U.S. Drought Monitor data

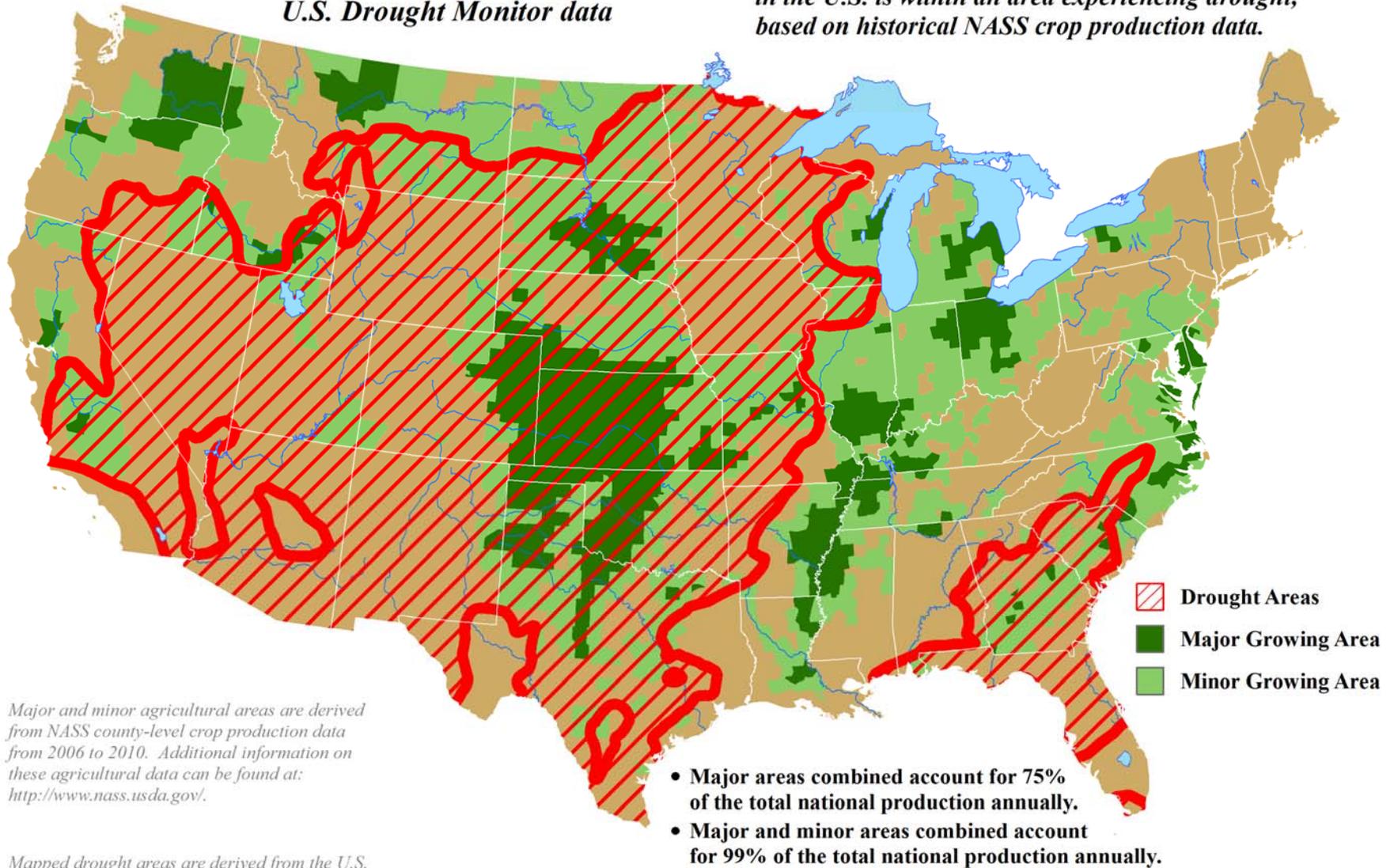
Approximately **57%** of the domestic hay acreage
is within an area experiencing drought, based
on NASS 2007 Census of Agriculture data.



U.S. Winter Wheat Areas Experiencing Drought

Reflects February 19, 2013
U.S. Drought Monitor data

Approximately **59%** of the winter wheat grown
in the U.S. is within an area experiencing drought,
based on historical NASS crop production data.

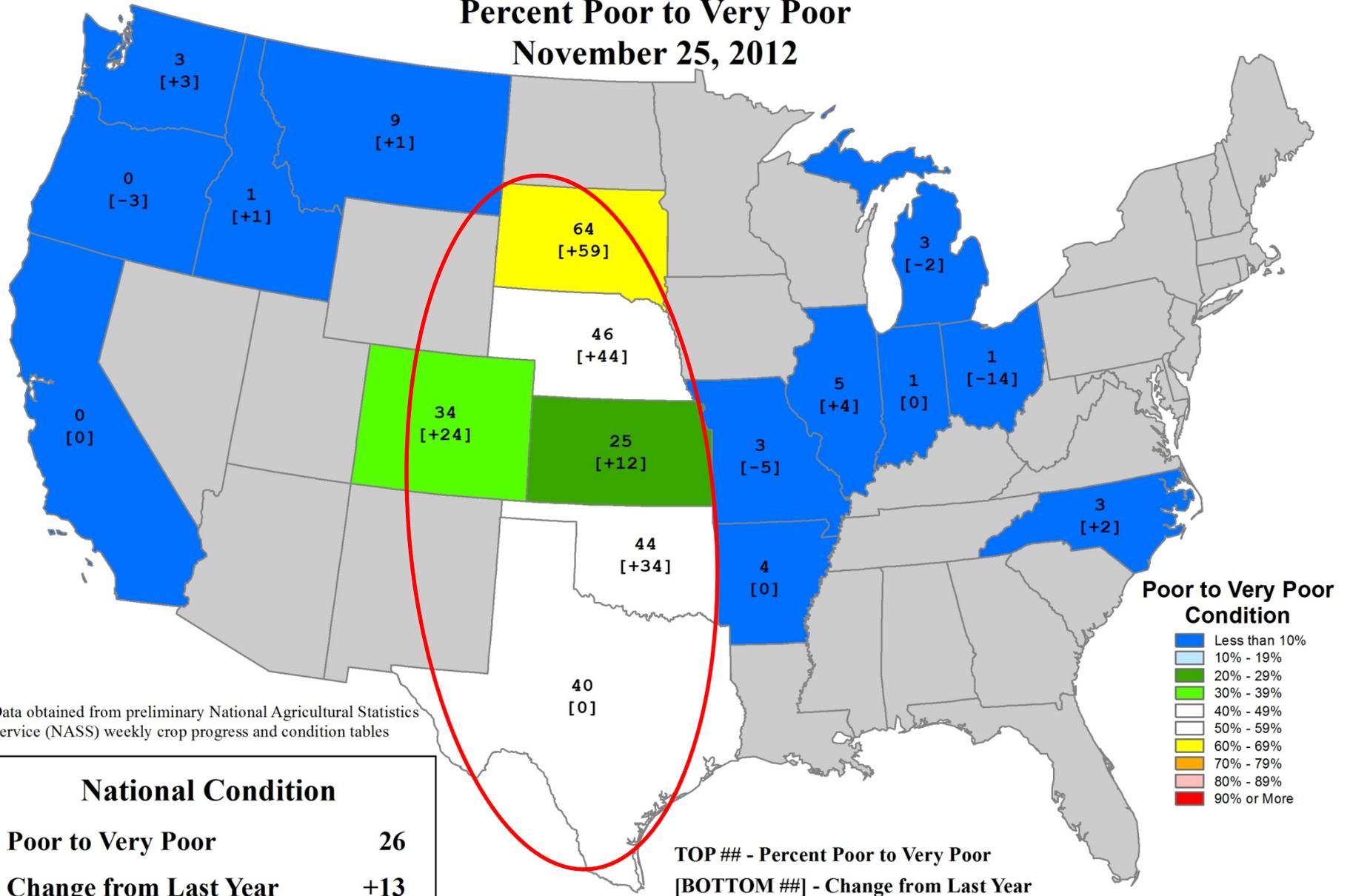


Major and minor agricultural areas are derived from NASS county-level crop production data from 2006 to 2010. Additional information on these agricultural data can be found at: <http://www.nass.usda.gov/>.

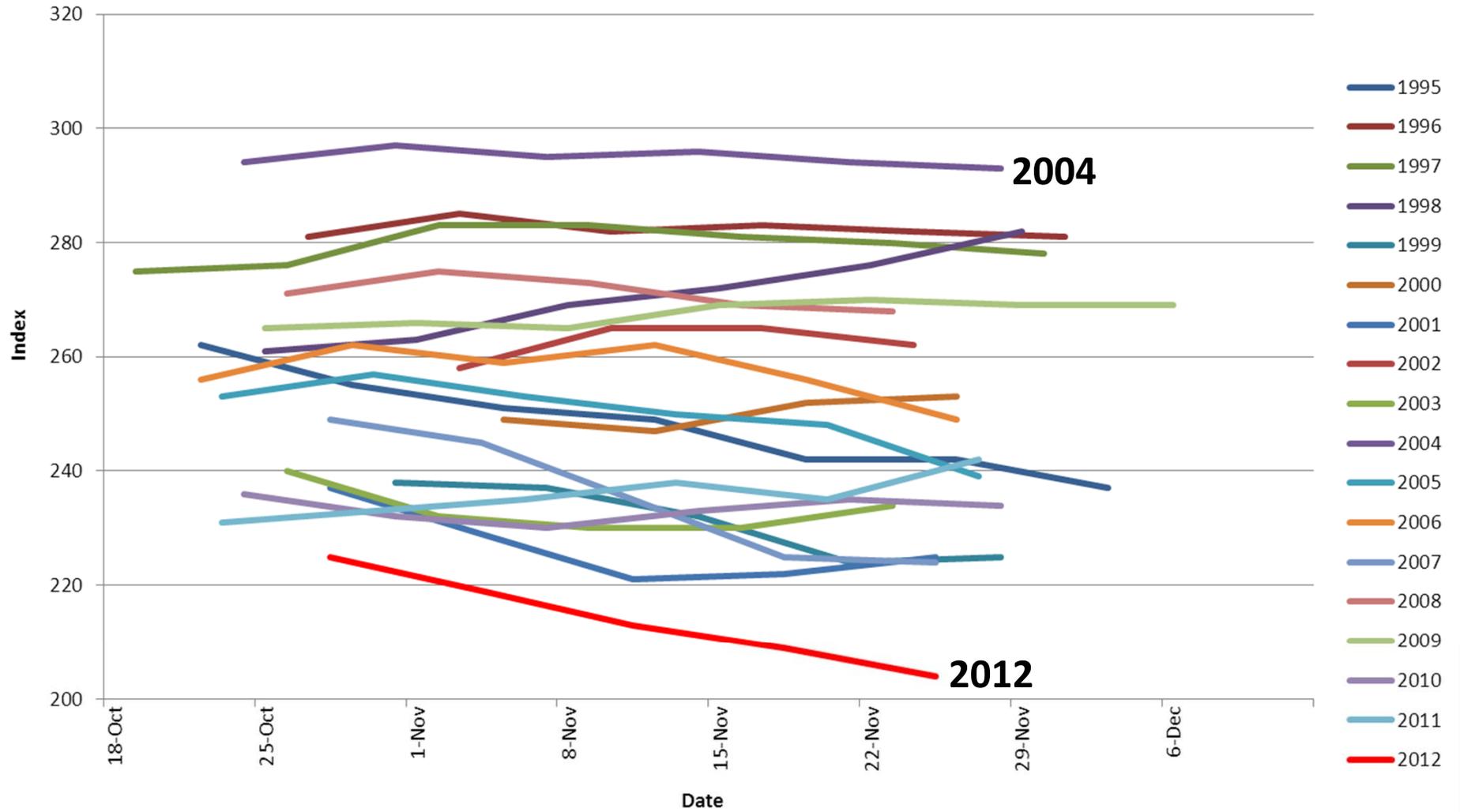
Mapped drought areas are derived from the U.S. Drought Monitor product and do not depict the intensity of drought in any particular location. More information on the Drought Monitor can be found at: <http://droughtmonitor.unl.edu/>.

U.S. Winter Wheat Conditions

Percent Poor to Very Poor
November 25, 2012



U.S. WINTER WHEAT Condition Index



Based on NASS crop progress data.

Index Weighting: Excellent = 4; Good = 3; Fair = 2; Poor = 1; Very Poor = 0

Winter Wheat Conditions

January 27, 2013

<u>State</u>	<u>VP</u>	<u>P</u>	<u>F</u>	<u>G</u>	<u>EX</u>
Oklahoma	30	39	26	5	0
Kansas	14	25	41	19	1
Nebraska	15	35	42	8	0
S. Dakota	16	50	31	3	0
Montana	2	7	50	39	2
Illinois	0	3	30	60	7

Rangeland and Pasture, Very Poor to Poor:
Kansas, 85%; Oklahoma, 82%

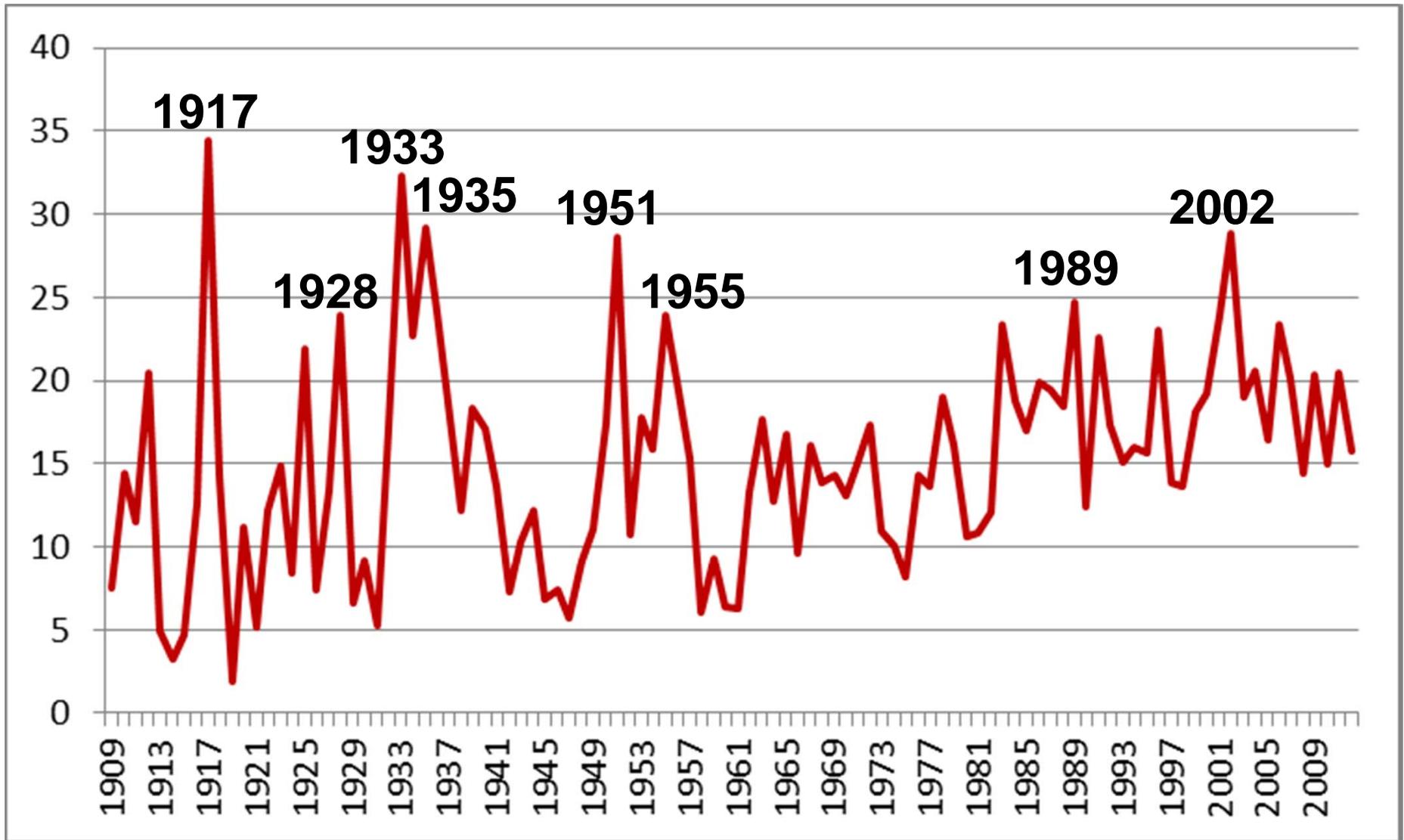
Texas Winter Wheat Conditions

February 17, 2013

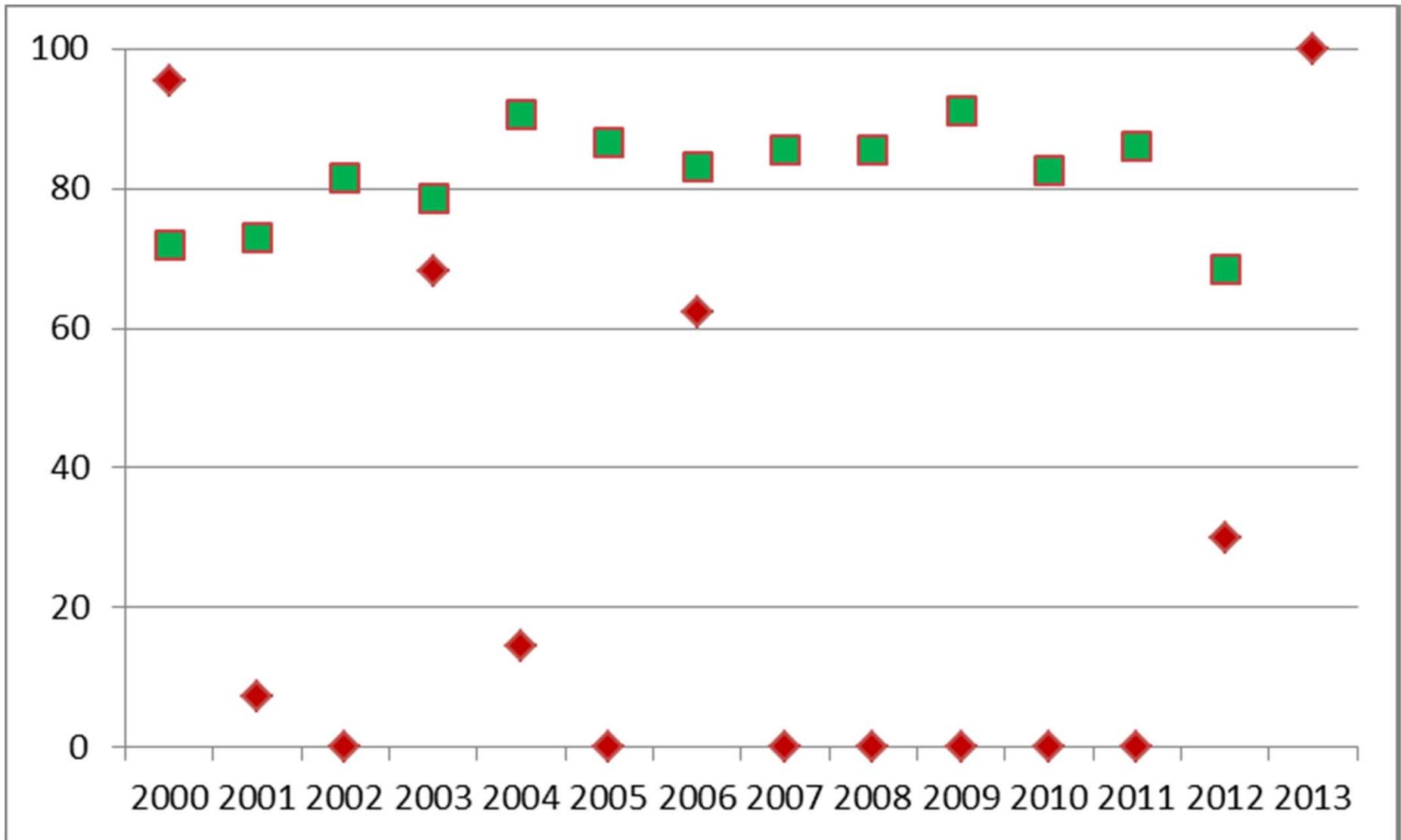
<u>State</u>	<u>VP</u>	<u>P</u>	<u>F</u>	<u>G</u>	<u>EX</u>
Texas	23	26	37	13	1

Rangeland and Pasture, Very Poor to Poor:
Texas, 53%; Florida, 50%; Arizona, 44%

Percent U.S. Winter Wheat Abandonment 1909-2012



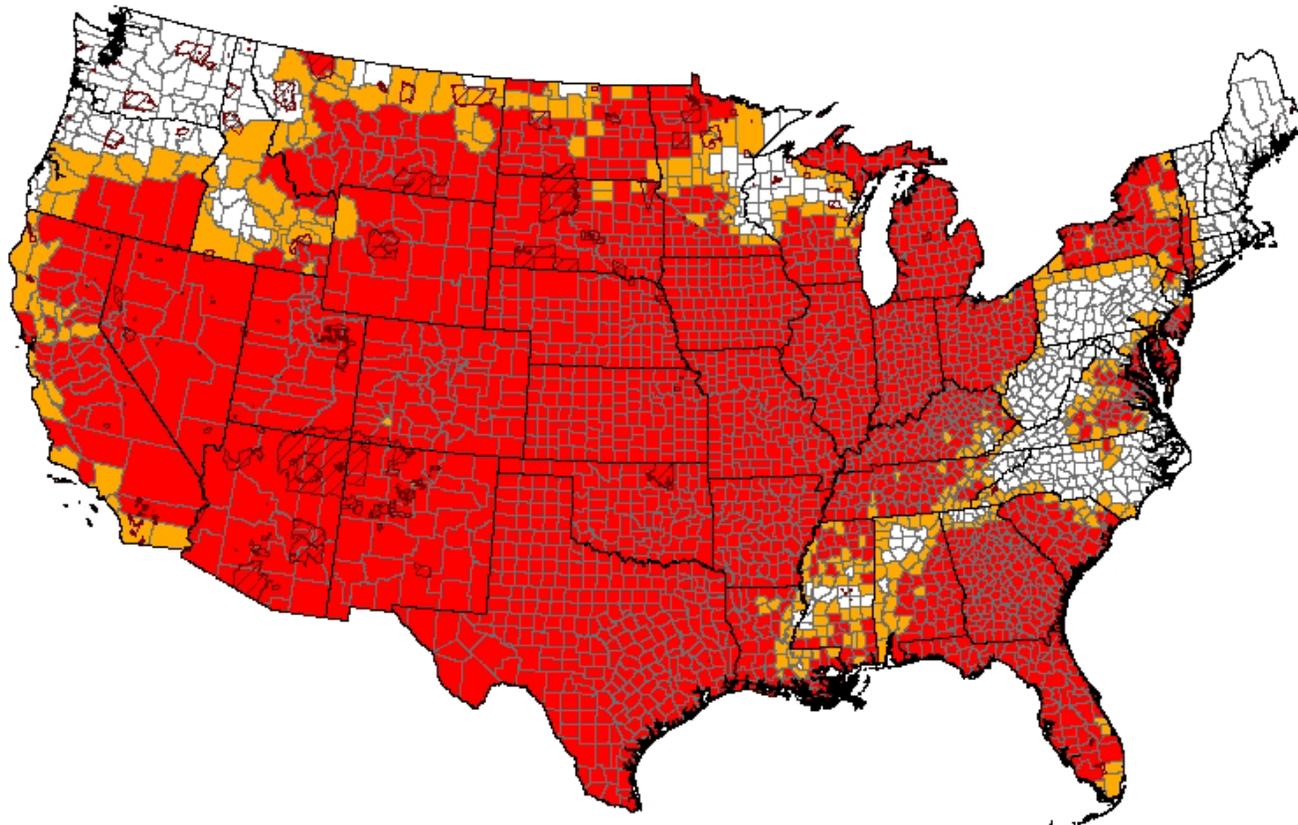
Iowa in Drought in Mid-February and Iowa Corn Yield (Divided by Two)



“Fast Track” Secretarial Disaster Designation Process

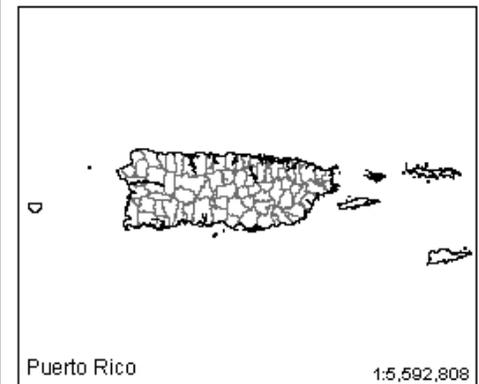
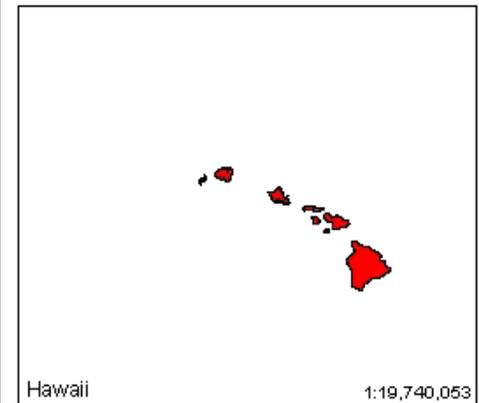
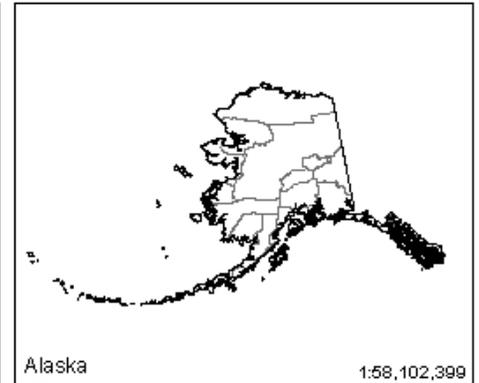
- Streamlines the USDA Secretarial designation process by eliminating steps from the current process;
- A reduced interest rate for emergency loans that effectively lowers the current rate from 3.75 percent to 2.25 percent;
- Preserves the ability of a state governor or Indian Tribal Council to request a Secretarial Disaster Designation;
- Removes the requirement that a request for a disaster designation be initiated only by a state governor or Indian Tribal Council;
- Further streamlines the disaster designation process for severe drought occurrences by utilizing the U.S. Drought Monitor as a tool to automatically trigger disaster areas with no further documentation;
- Does not impose any new requirements on producers or the public.
- **Led to drought disaster declarations in 2,254 counties in 39 states.**

2012 Secretarial Drought Designations - All Drought



All Drought Disaster Incidents as of 2/13/2013

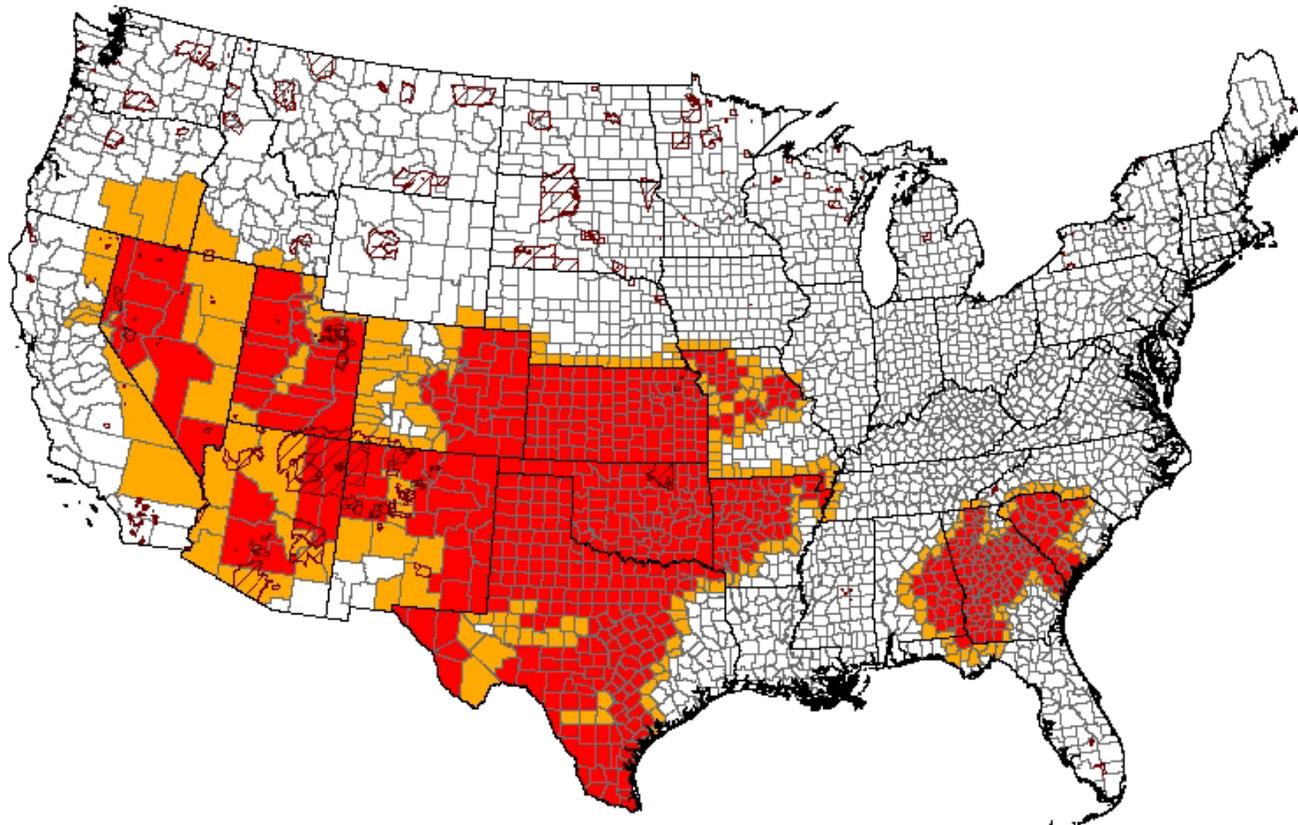
-  State Boundary
-  County Boundary
-  Tribal Lands
-  Primary Counties: 2,254
-  Contiguous Counties: 374



USDA Farm Service Agency
 Production, Emergencies and Compliance Division
 Washington, D.C.
 February 13, 2013

1:23,520,203

2013 Secretarial Drought Designations - All Drought



Secretarial Drought Designations as of February 6, 2013

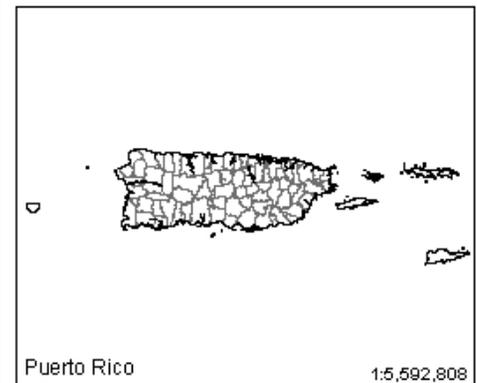
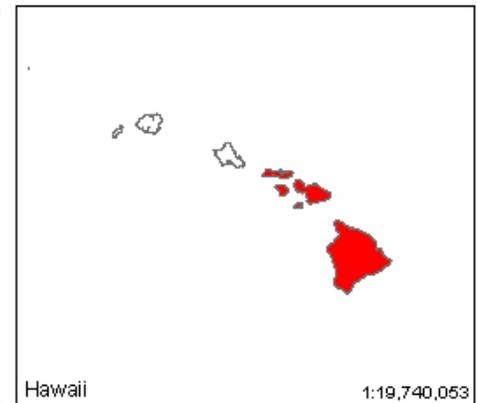
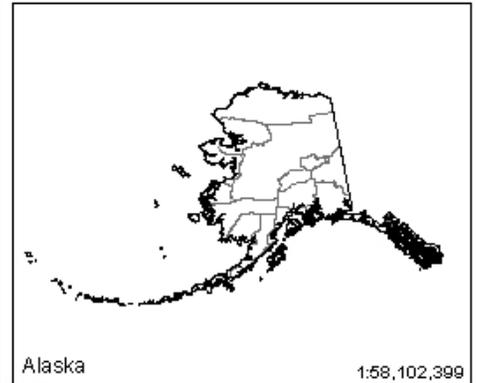
Disaster Incidents as of February 6, 2013

-  State Boundary
-  County Boundary
-  Tribal Lands
- February 6, 2013
-  Primary Counties: 676
-  Contiguous Counties: 270



USDA Farm Service Agency
 Production, Emergencies and Compliance Division
 Washington, D.C.
 February 6, 2013

1:23,520,203



Thank you!

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 - phone: (202) 720-2397

