Midwest and Great Plains Drought and Climate Webinar

September 19, 2013

"Central Region Agricultural Update"

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Washington, D.C.

Photo by B. Rippey
Saline Co., Nebraska
April 18, 2013

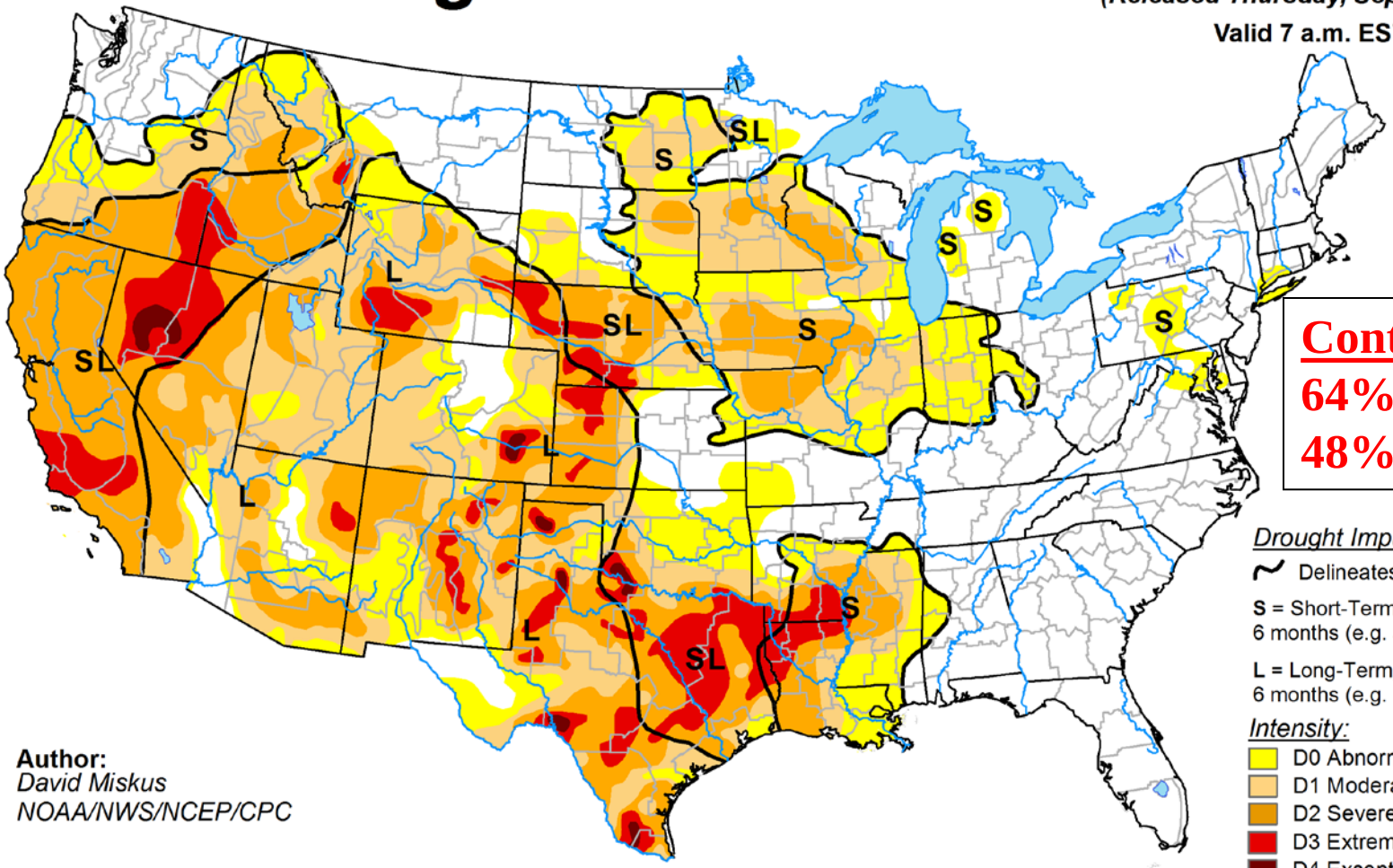
NWS Central Region

U.S. Drought Monitor

September 17, 2013

(Released Thursday, Sep. 19, 2013)

Valid 7 a.m. EST



Contiguous U.S.

64%	D0 – D4
48%	D1 – D4

Drought Impact Types:

~ Delineates dominant impacts

S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)

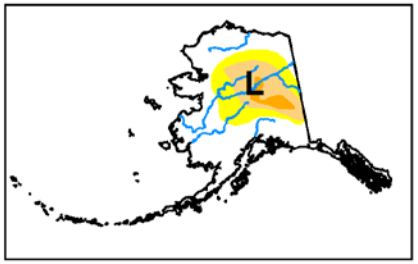
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

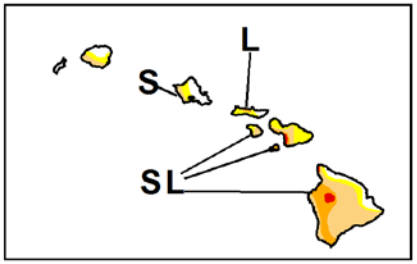
Intensity:

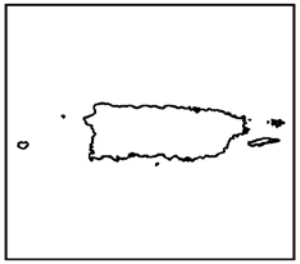
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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

Author:
David Miskus
NOAA/NWS/NCEP/CPC







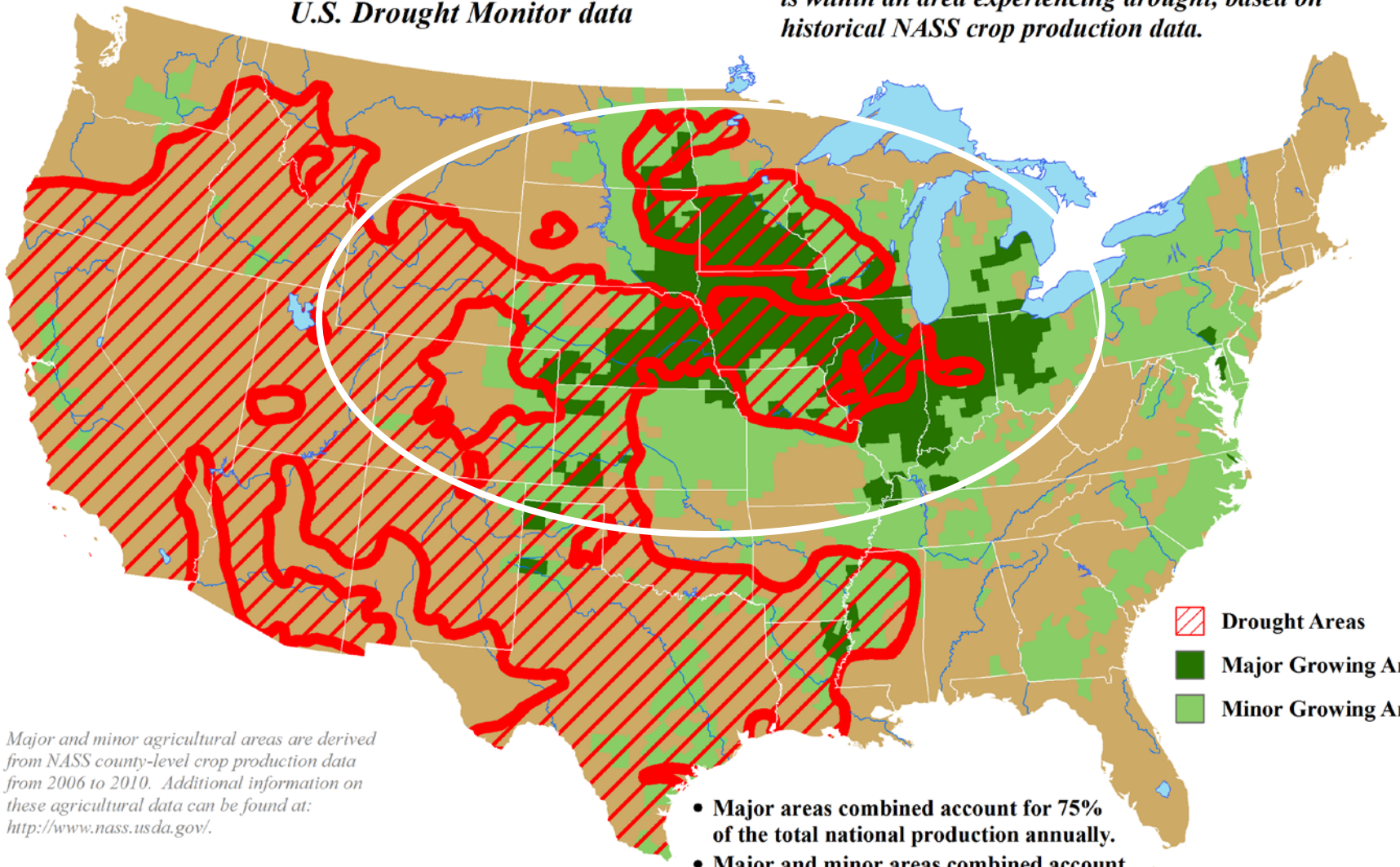
USDA National Drought Mitigation Center

http://droughtmonitor.unl.edu/

U.S. Corn Areas Experiencing Drought

Reflects September 17, 2013 U.S. Drought Monitor data

Approximately 55% of the corn grown in the U.S. is within an area experiencing drought, based on historical NASS crop production data.



- **Major areas combined account for 75% of the total national production annually.**
- **Major and minor areas combined account for 99% of the total national production annually.**

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/.

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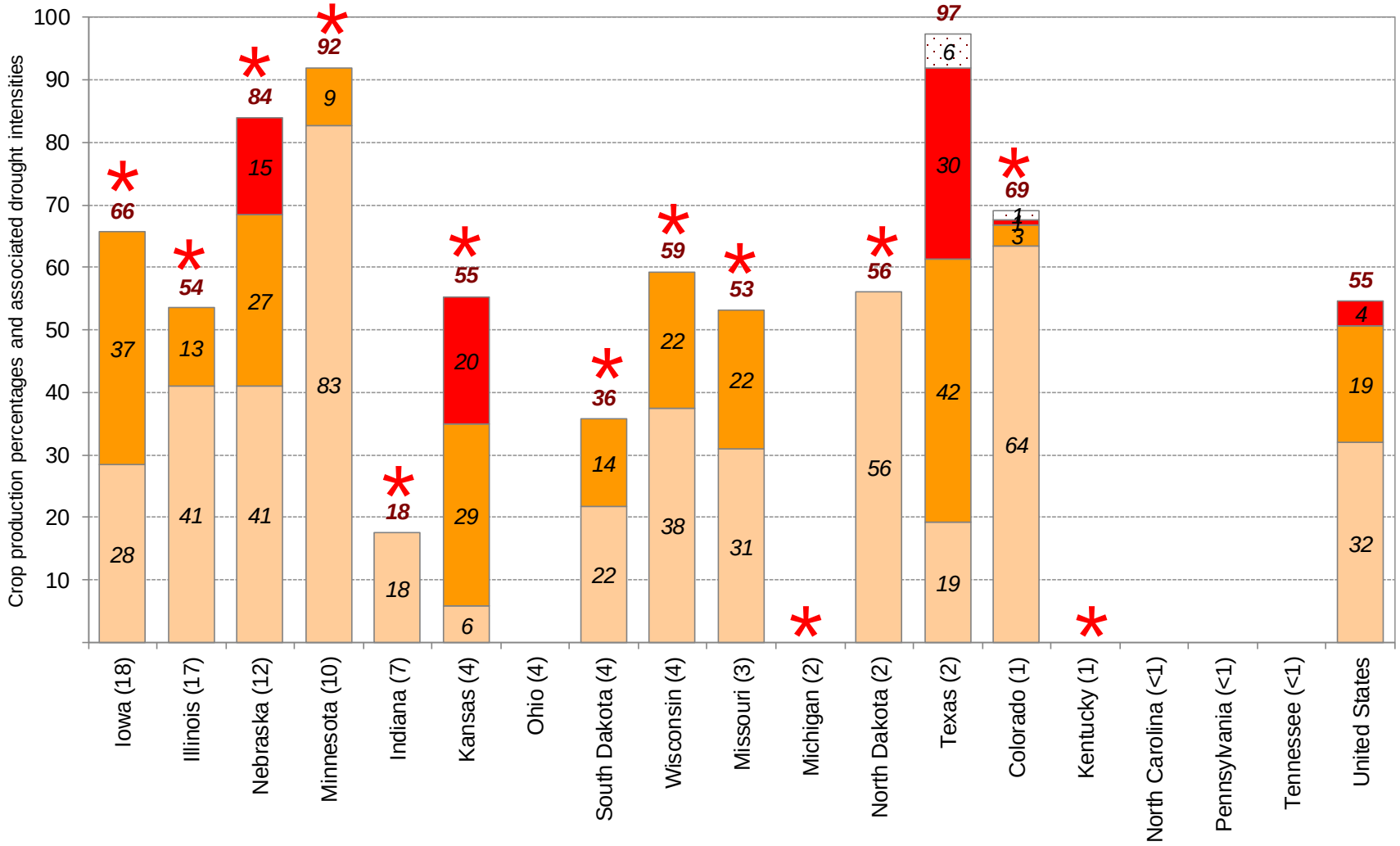
World Agricultural Outlook Board

Approximate Percentage of Corn Located in Drought *

September 17, 2013



* Drought percentages were calculated from U.S. Drought Monitor (USDM) data for the above date. More information on the USDM is available at http://droughtmonitor.unl.edu/.

Percent in Moderate Drought (D1)
Percent in Severe Drought (D2)
Percent in Extreme Drought (D3)
Percent in Exceptional Drought (D4)

State contributions to national production (percentages in parentheses) are based upon National Agricultural Statistics Service (NASS) 5-year averages from 2006-2010. More information on NASS data can be found at http://www.nass.usda.gov/.

* Central Region state

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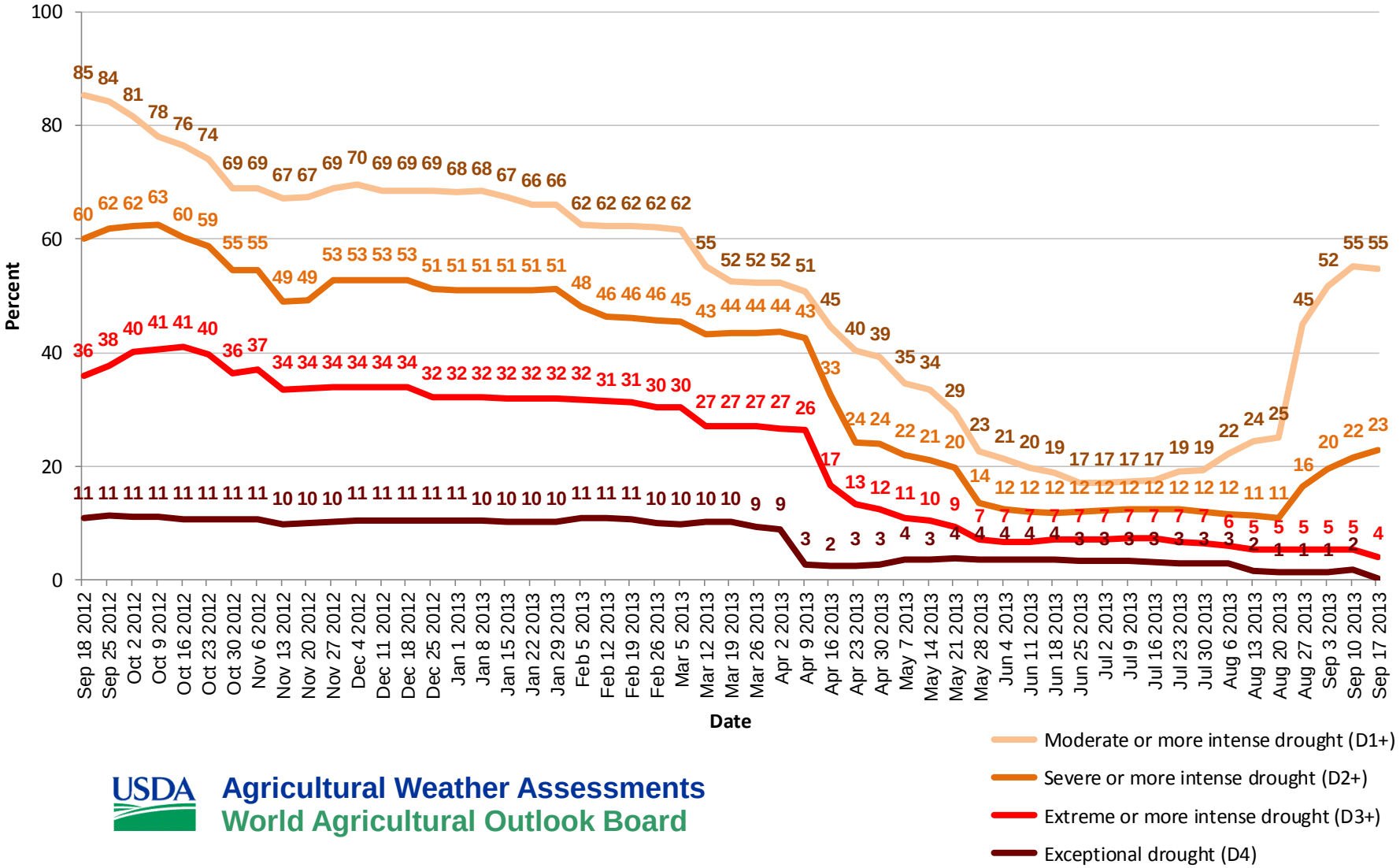
World Agricultural Outlook Board

United States Corn Areas Located in Drought



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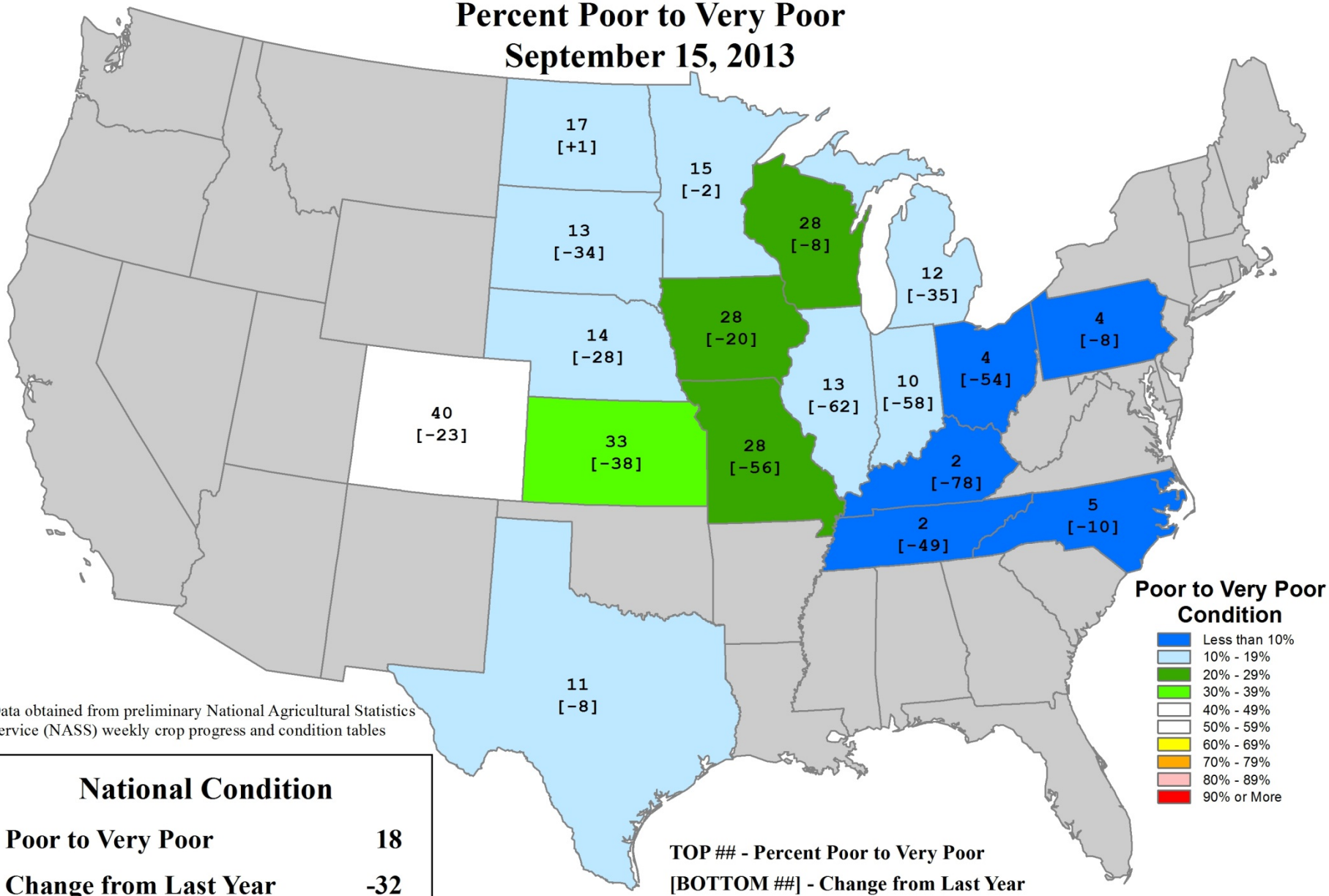
U.S. Corn Conditions

Percent Poor to Very Poor
September 15, 2013



Data obtained from preliminary National Agricultural Statistics Service (NASS) weekly crop progress and condition tables

National Condition	
Poor to Very Poor	18
Change from Last Year	-32

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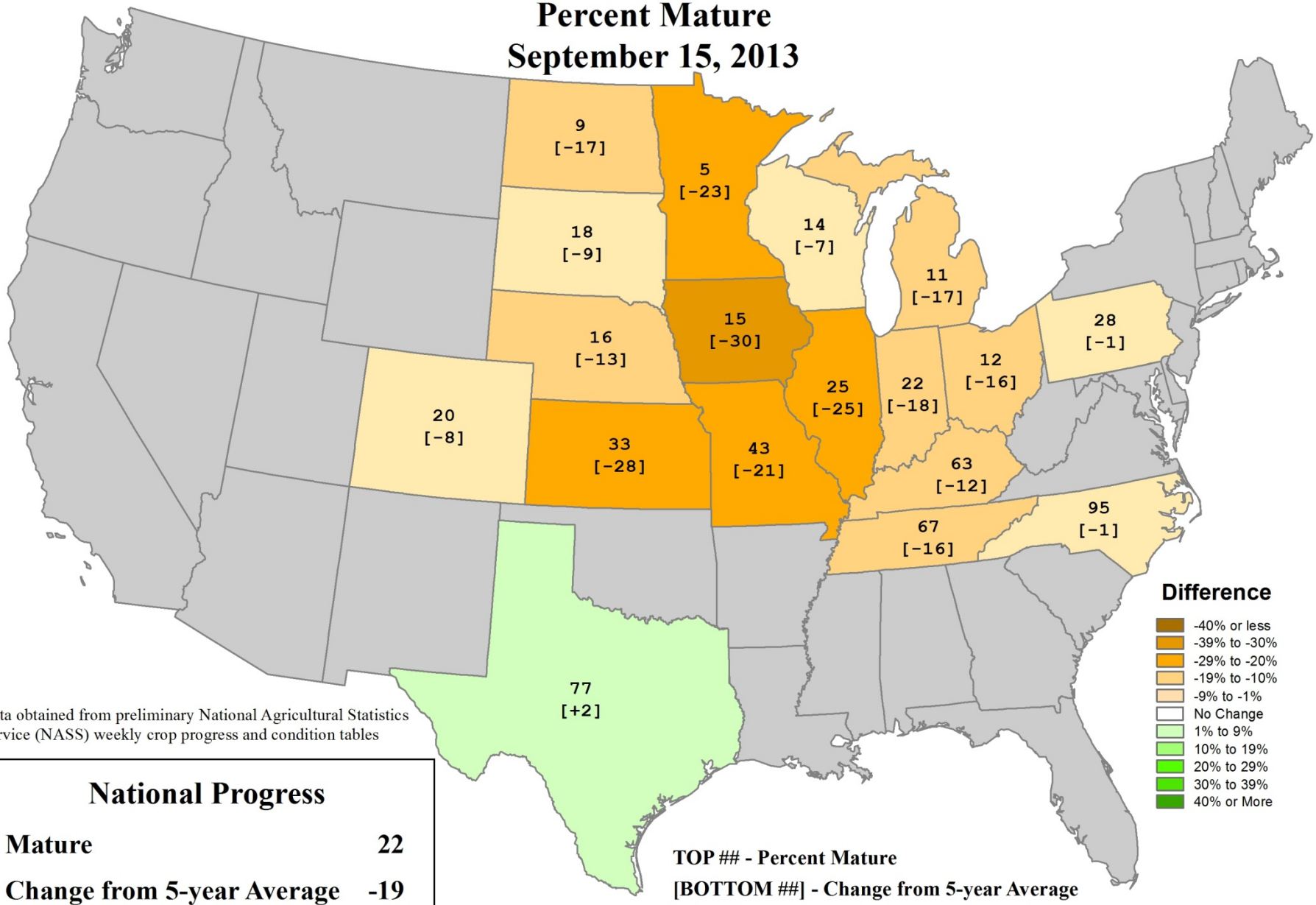
World Agricultural Outlook Board

U.S. Corn Progress

Percent Mature
September 15, 2013



Data obtained from preliminary National Agricultural Statistics Service (NASS) weekly crop progress and condition tables

National Progress	
Mature	22
Change from 5-year Average	-19

TOP ## - Percent Mature

[BOTTOM ##] - Change from 5-year Average

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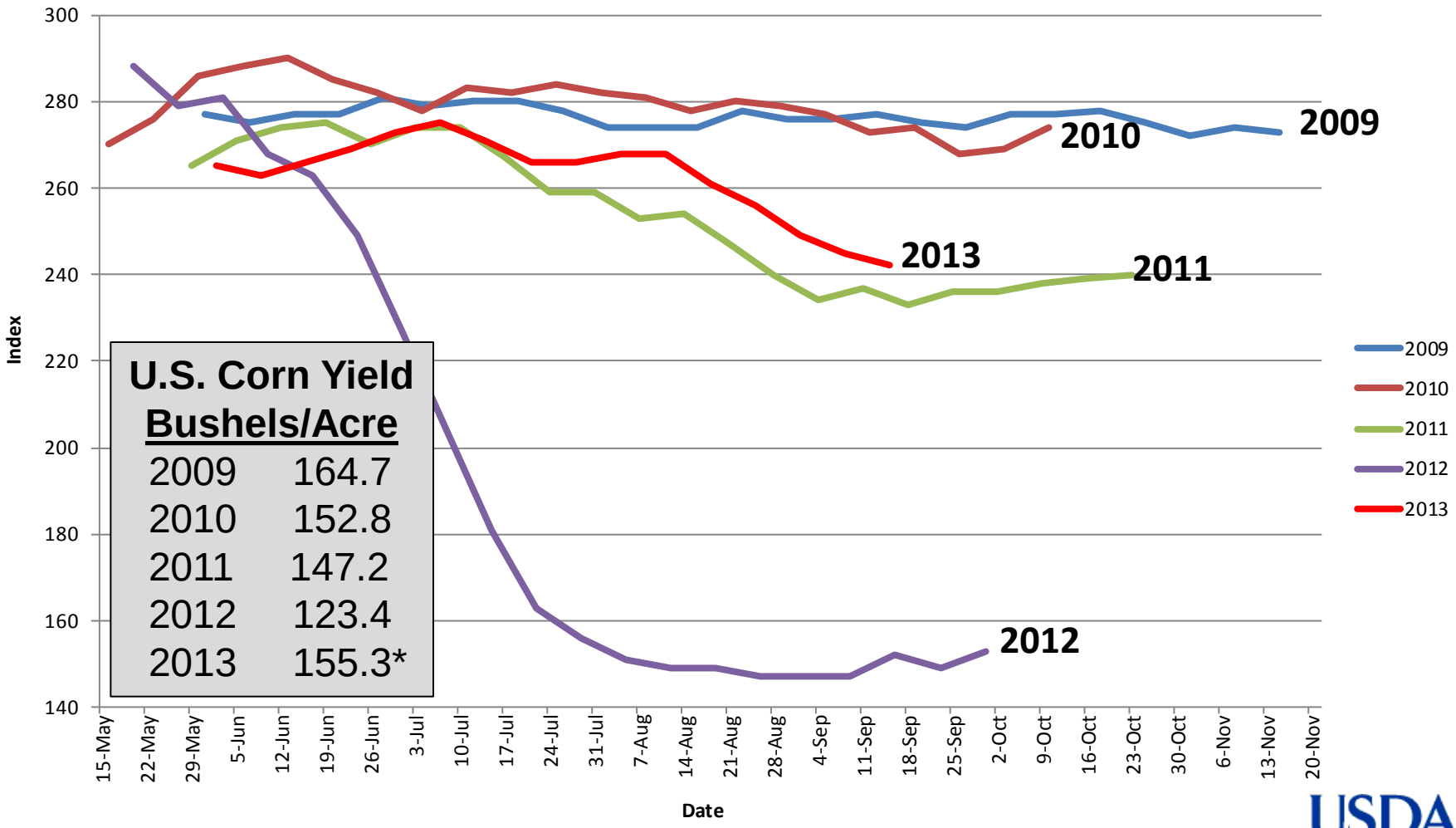
World Agricultural Outlook Board

U.S. CORN Condition Index

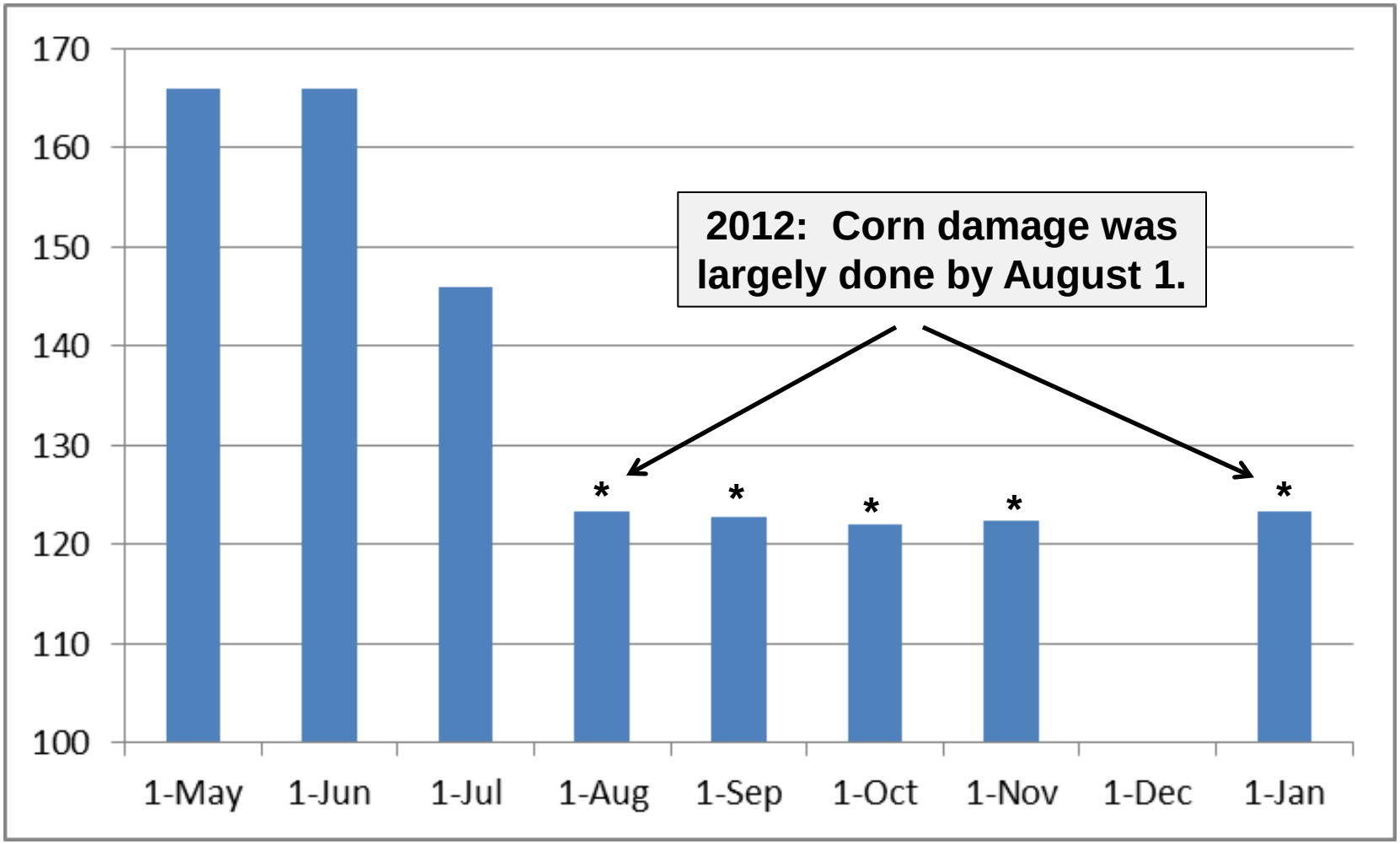


U.S. Corn Yield Bushels/Acre	
2009	164.7
2010	152.8
2011	147.2
2012	123.4
2013	155.3*

Based on NASS crop progress data.

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

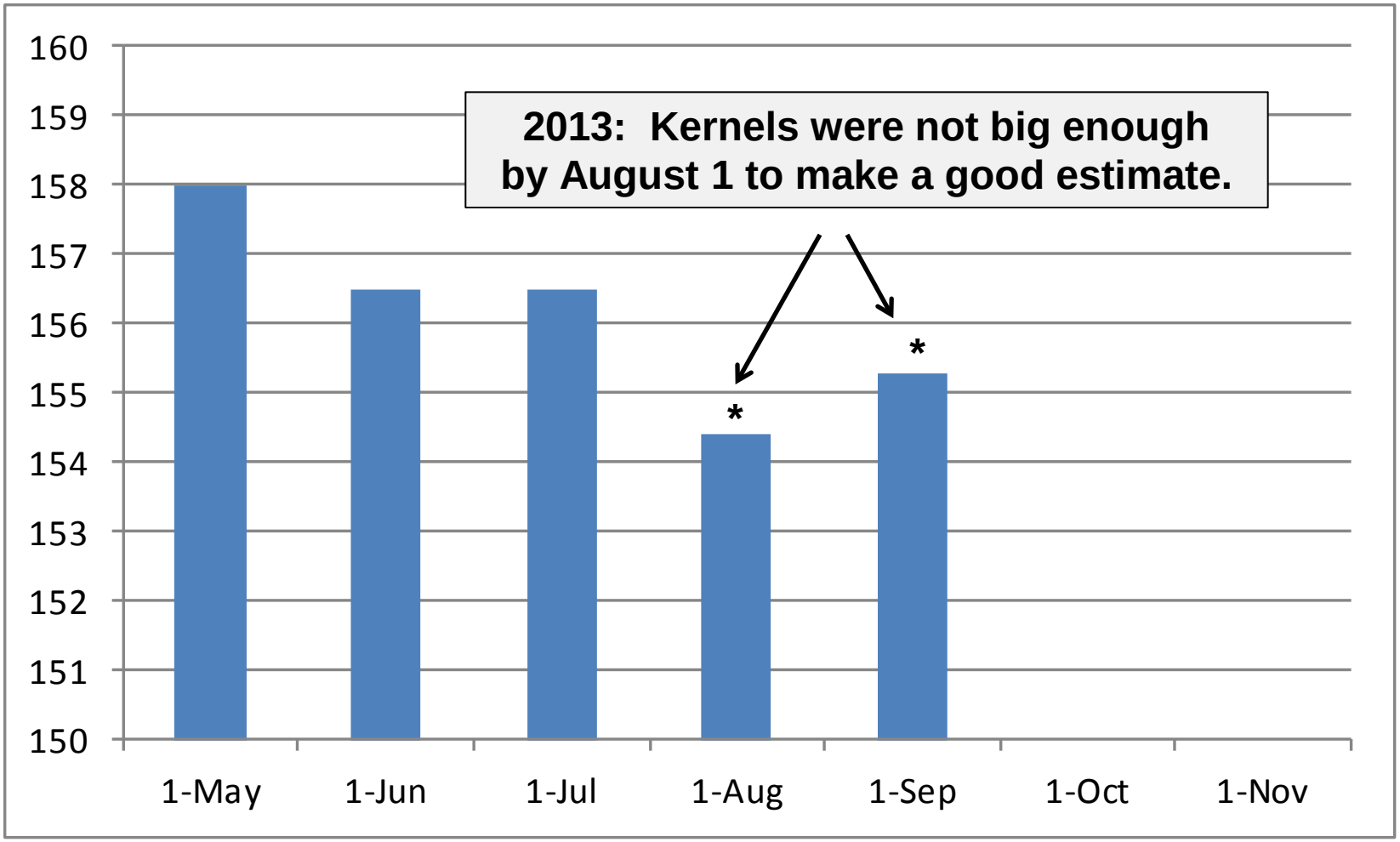
2012 U.S. Corn Yield Forecast
(Bushels / Acre)



*** Based on field surveys**

Source: USDA

2013 U.S. Corn Yield Forecast
(Bushels / Acre)



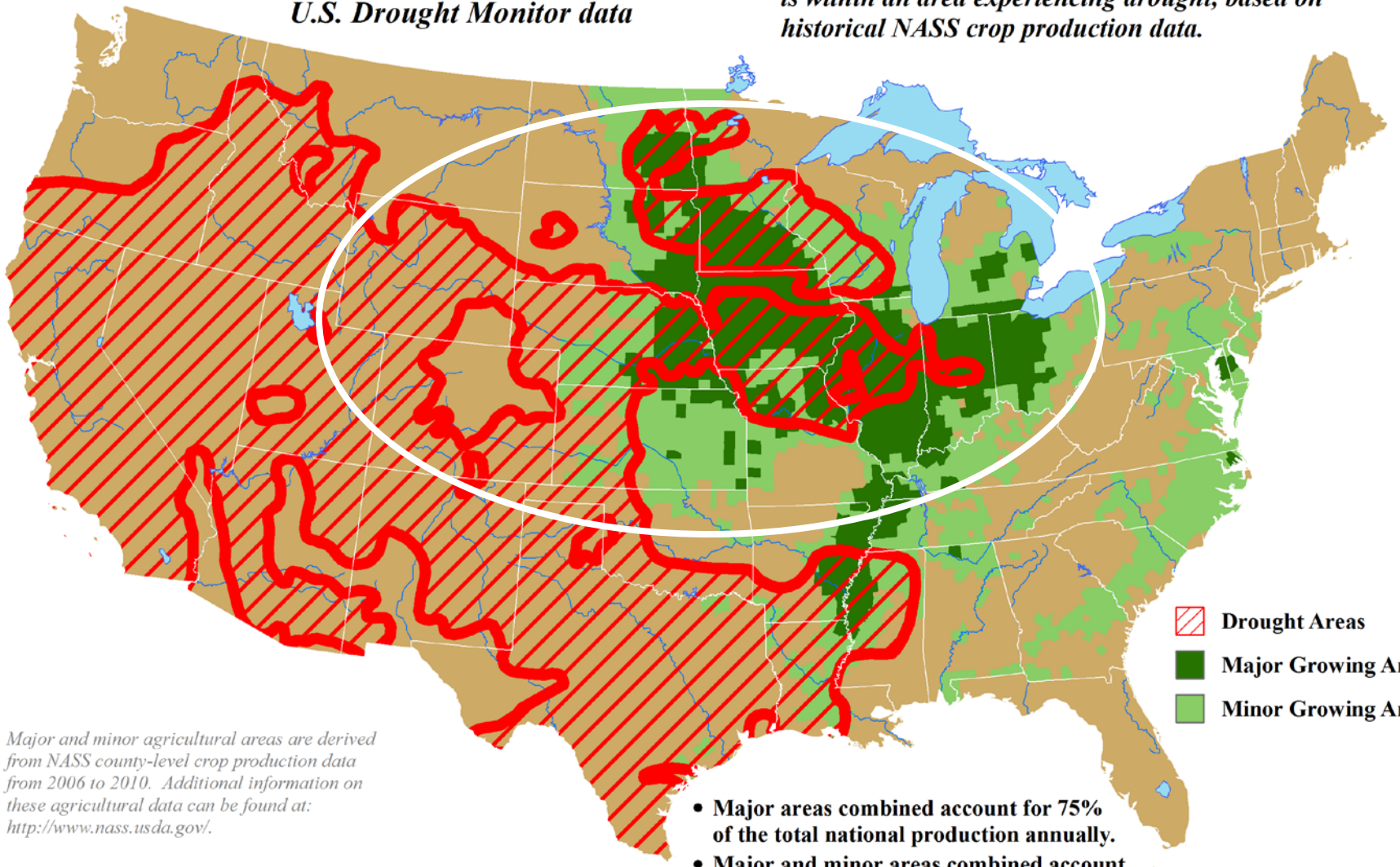
*** Based on field surveys**

Source: USDA

U.S. Soybean Areas Experiencing Drought

Reflects September 17, 2013 U.S. Drought Monitor data

Approximately 45% of the soybeans grown in the U.S. is within an area experiencing drought, based on historical NASS crop production data.



- **Major areas combined account for 75% of the total national production annually.**
- **Major and minor areas combined account for 99% of the total national production annually.**

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/.

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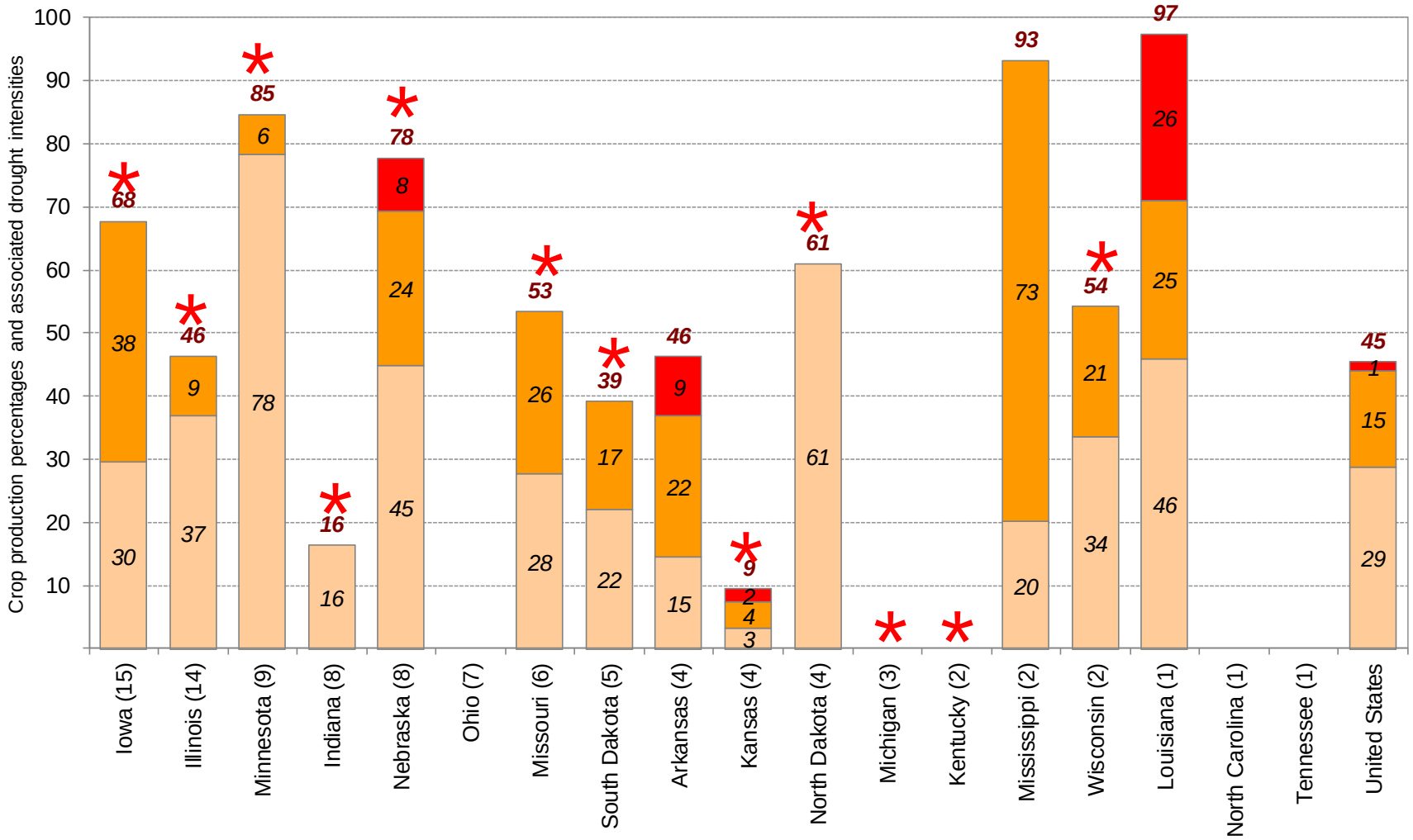
Approximate Percentage of Soybeans Located in Drought *

September 17, 2013



* Drought percentages were calculated from U.S. Drought Monitor (USDM) data for the above date. More information on the USDM is available at http://droughtmonitor.unl.edu/.

Percent in Moderate Drought (D1)
Percent in Severe Drought (D2)
Percent in Extreme Drought (D3)
Percent in Exceptional Drought (D4)

State contributions to national production (percentages in parentheses) are based upon National Agricultural Statistics Service (NASS) 5-year averages from 2006-2010. More information on NASS data can be found at http://www.nass.usda.gov/.

* Central Region state

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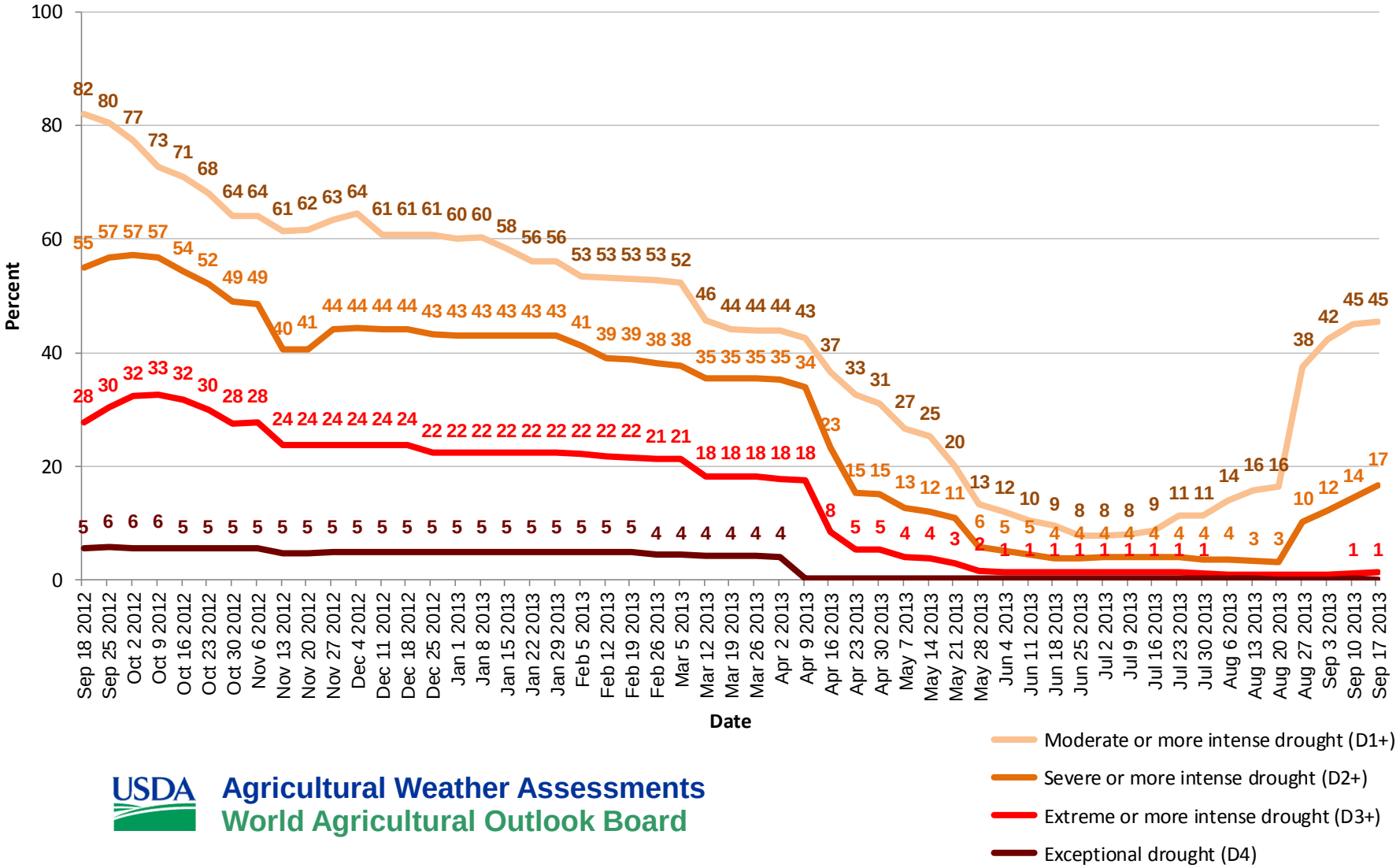
United States Soybean Areas Located in Drought



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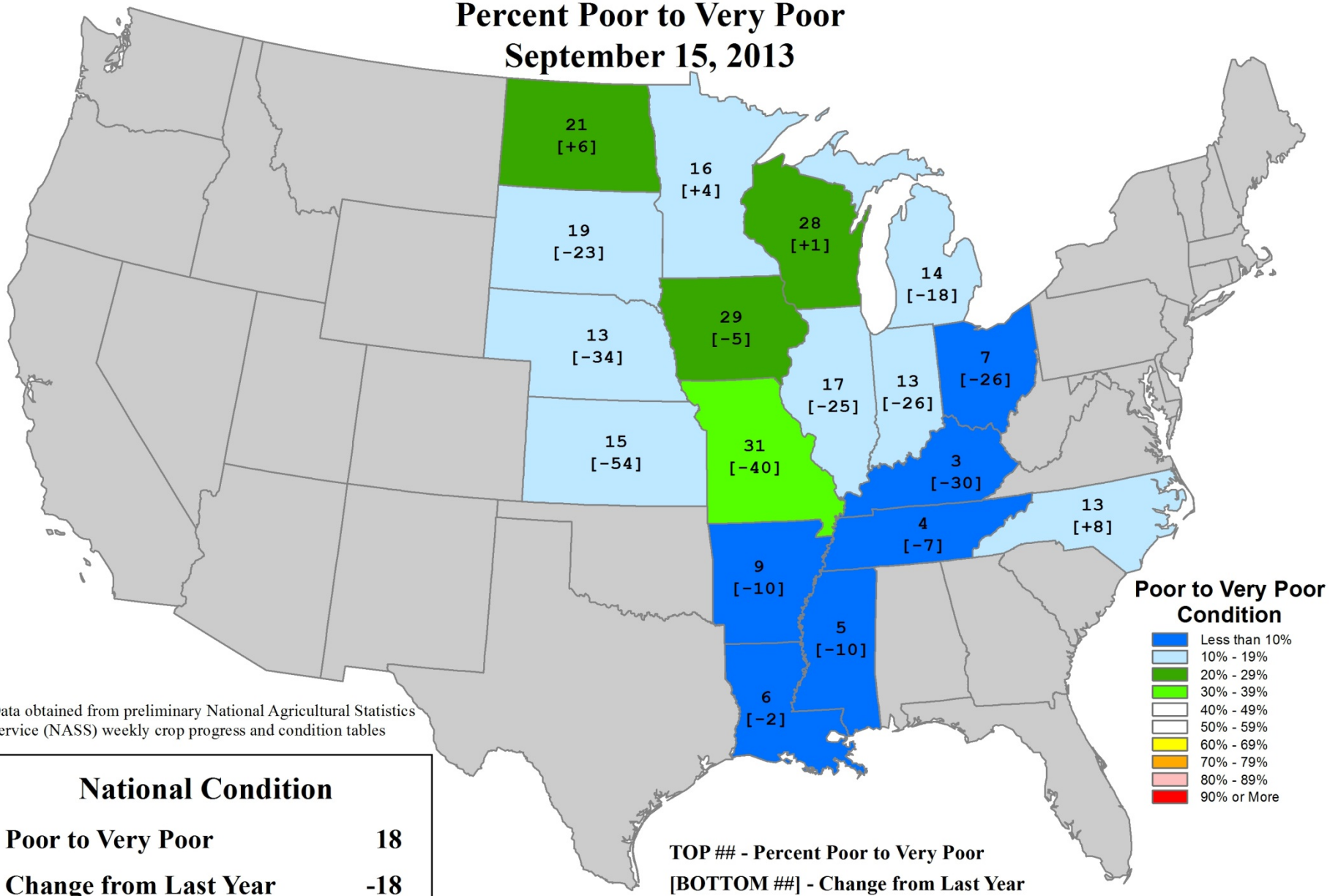
U.S. Soybean Conditions

Percent Poor to Very Poor
September 15, 2013



Data obtained from preliminary National Agricultural Statistics Service (NASS) weekly crop progress and condition tables

National Condition	
Poor to Very Poor	18
Change from Last Year	-18

TOP ## - Percent Poor to Very Poor
[BOTTOM ##] - Change from Last Year

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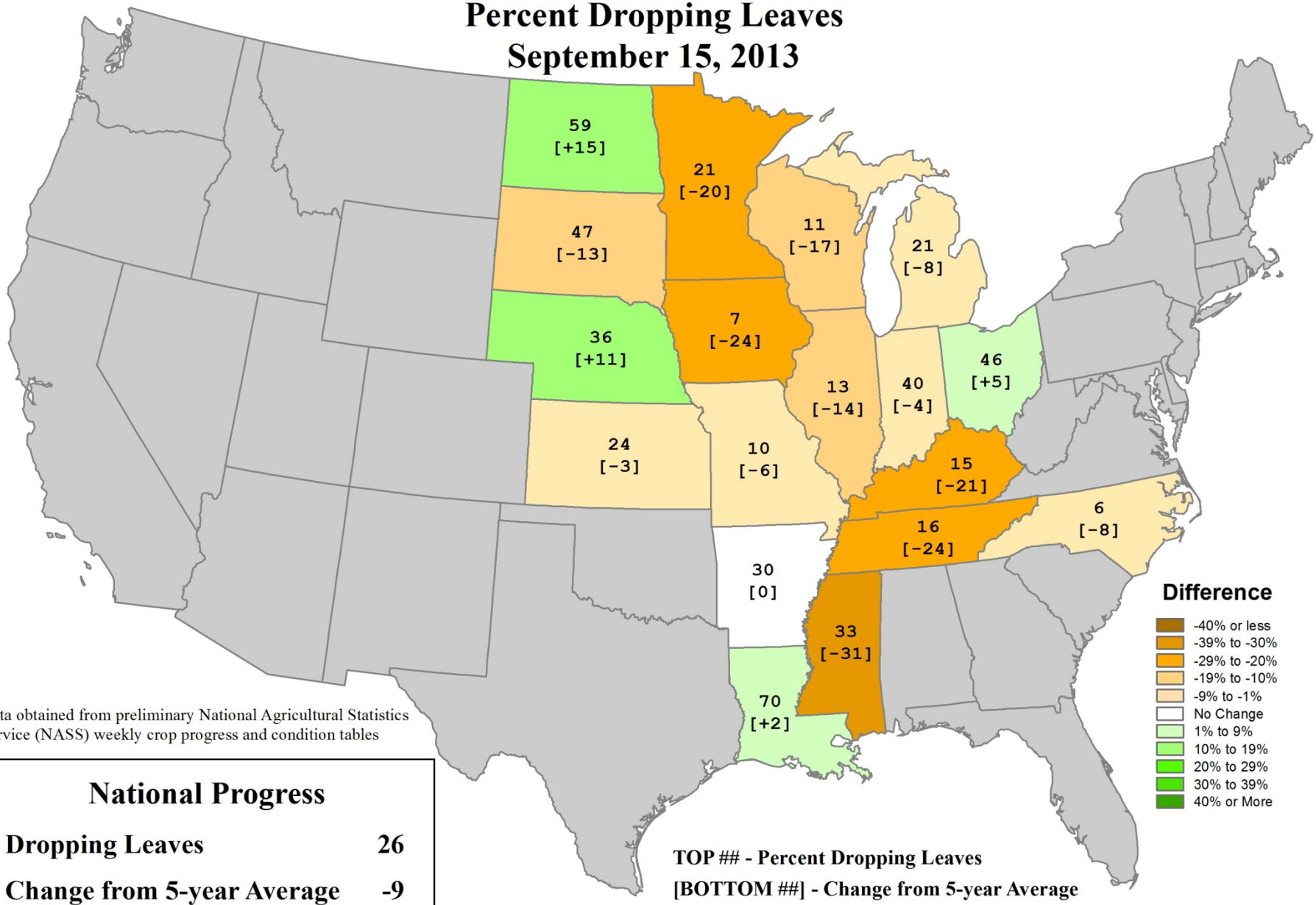
U.S. Soybeans Progress

Percent Dropping Leaves
September 15, 2013



Data obtained from preliminary National Agricultural Statistics Service (NASS) weekly crop progress and condition tables

National Progress	
Dropping Leaves	26
Change from 5-year Average	-9

TOP ## - Percent Dropping Leaves
[BOTTOM ##] - Change from 5-year Average

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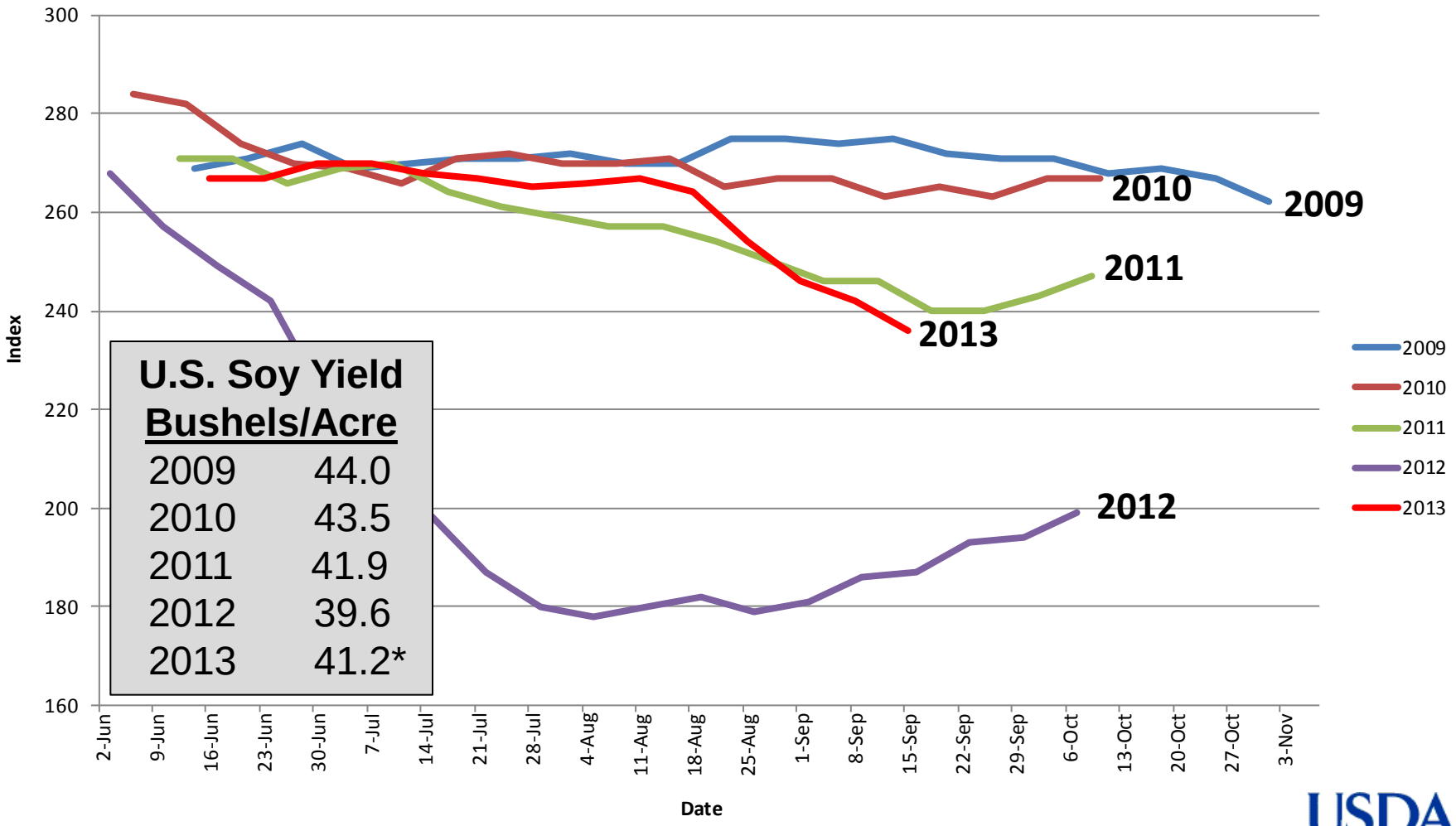
U.S. SOYBEAN Condition Index

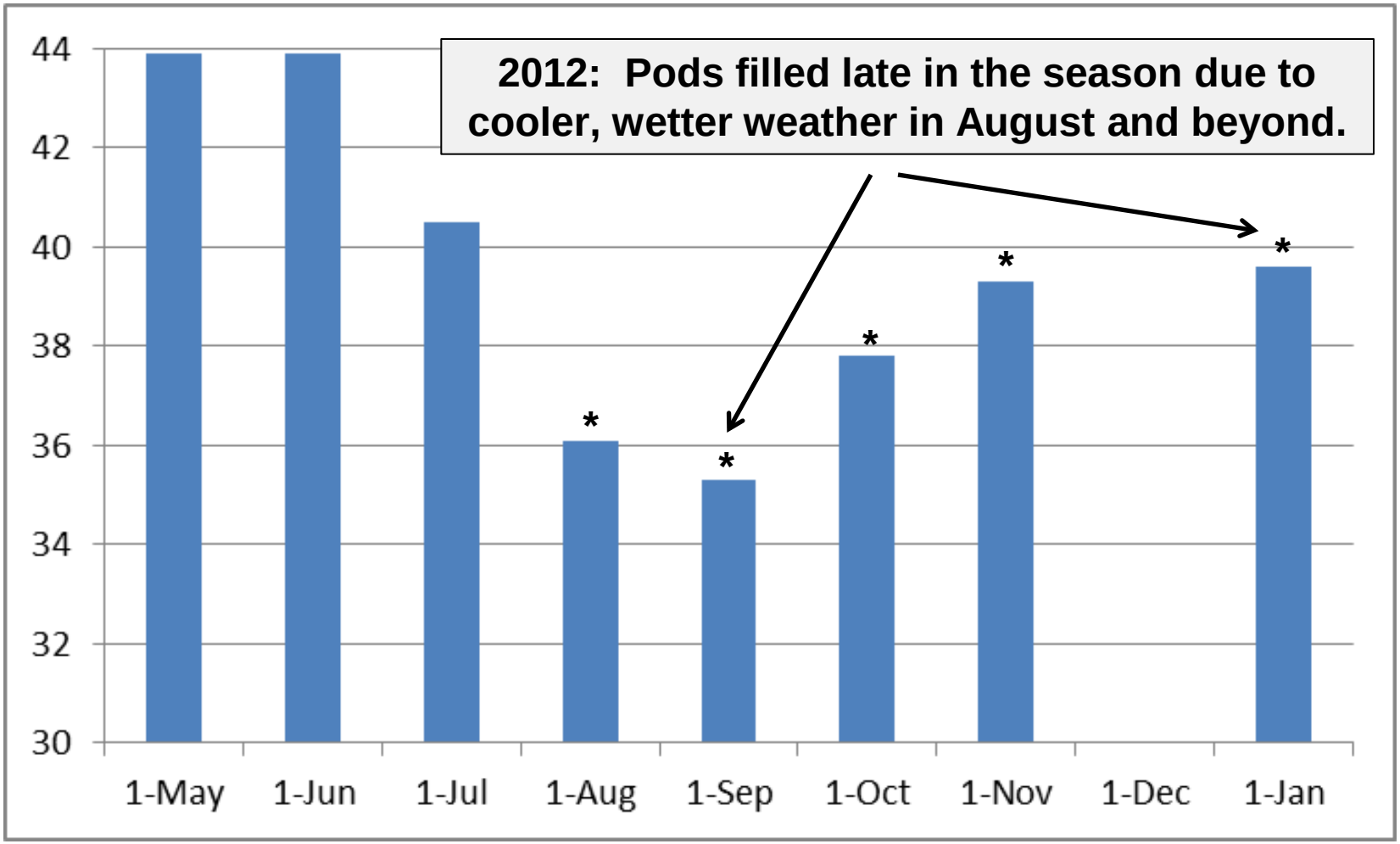


U.S. Soy Yield Bushels/Acre	
2009	44.0
2010	43.5
2011	41.9
2012	39.6
2013	41.2*

Based on NASS crop progress data.

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

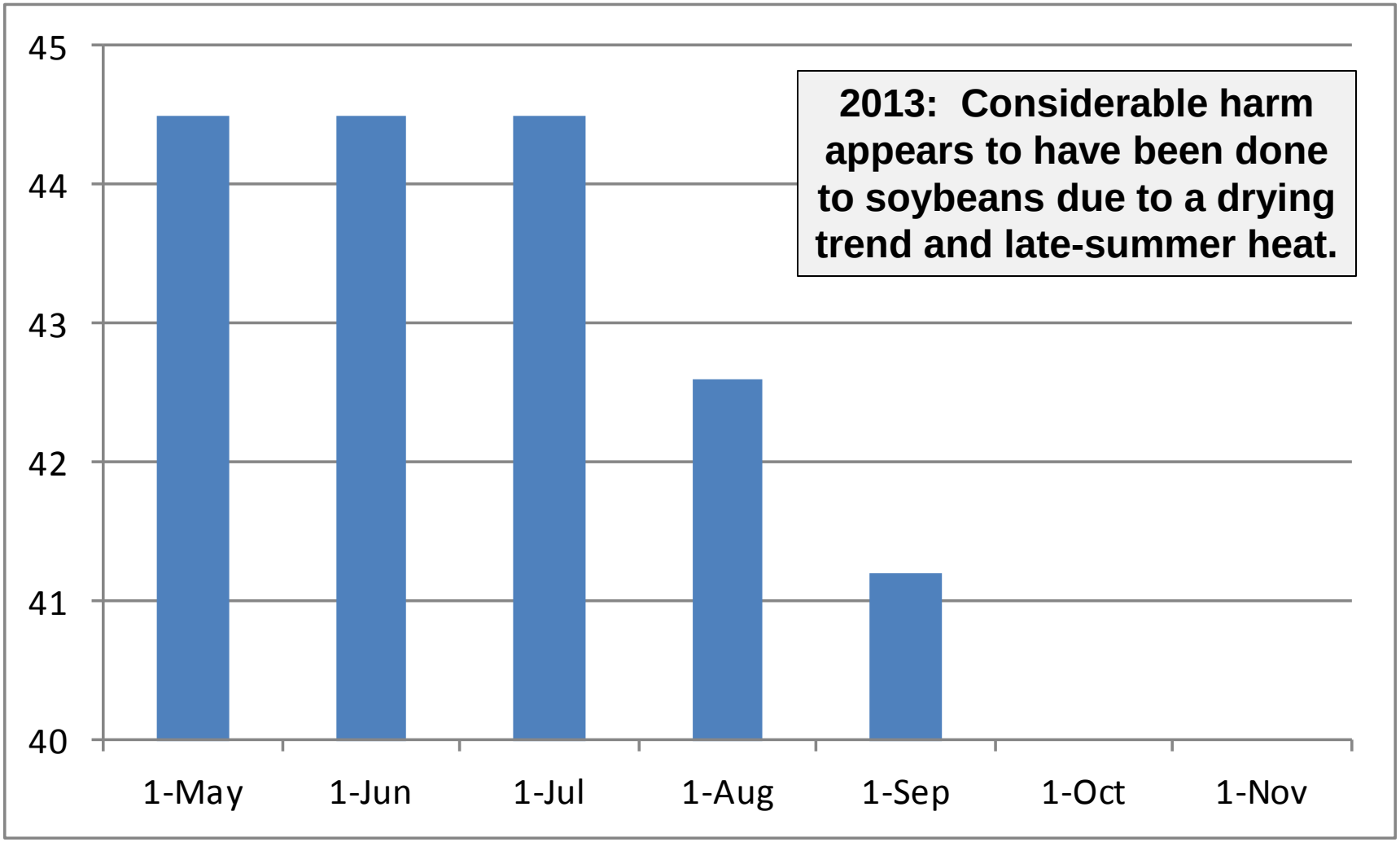
2012 U.S. Soybean Yield Forecast (Bushels / Acre)



*** Based on field surveys**

Source: USDA

2013 U.S. Soybean Yield Forecast (Bushels / Acre)



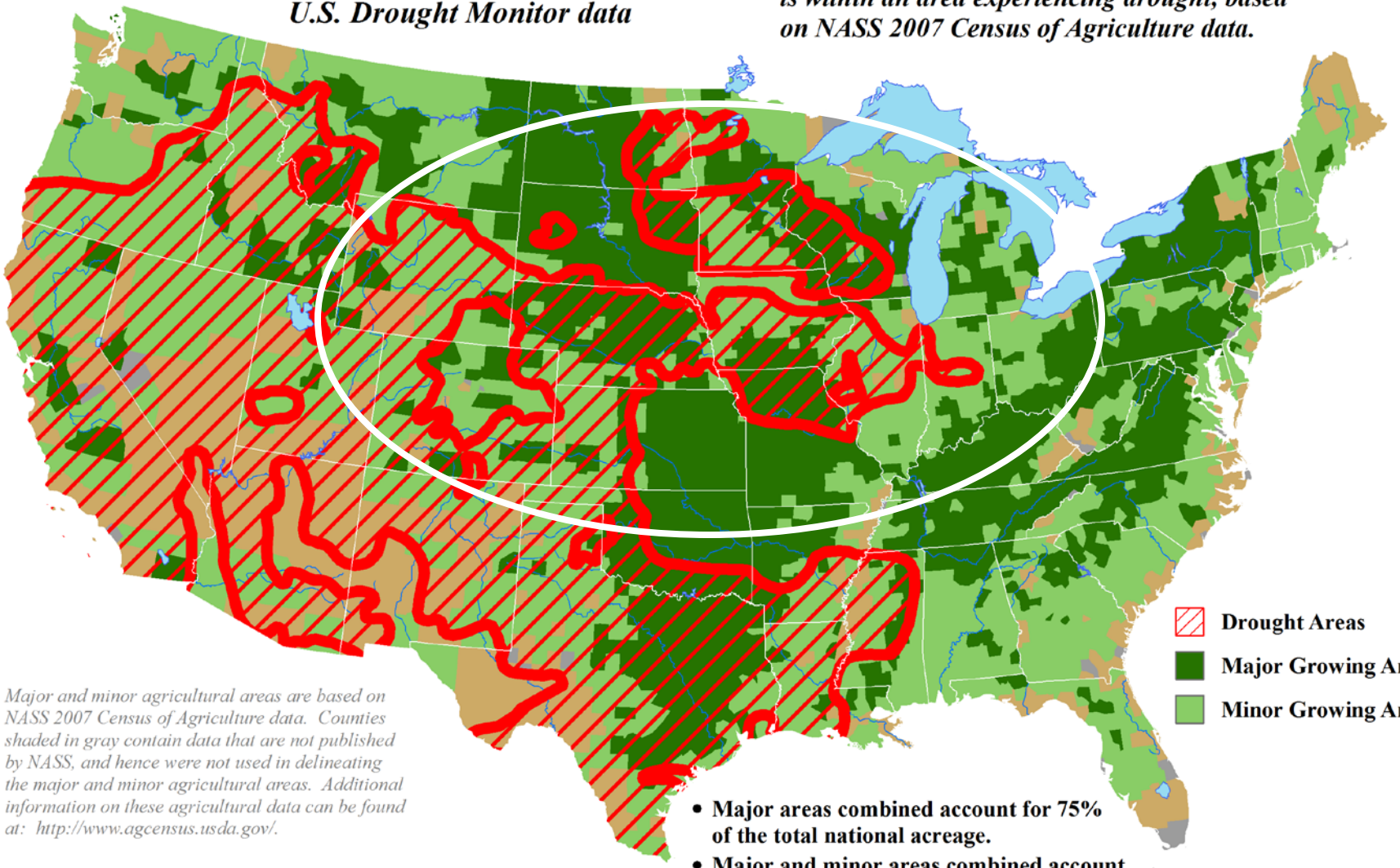
*** Based on field surveys**

Source: USDA

U.S. Hay Areas Experiencing Drought

Reflects September 17, 2013 U.S. Drought Monitor data

Approximately 39% of the domestic hay acreage is within an area experiencing drought, based on NASS 2007 Census of Agriculture data.



- **Major areas combined account for 75% of the total national acreage.**
- **Major and minor areas combined account for 99% of the total national acreage.**

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/.

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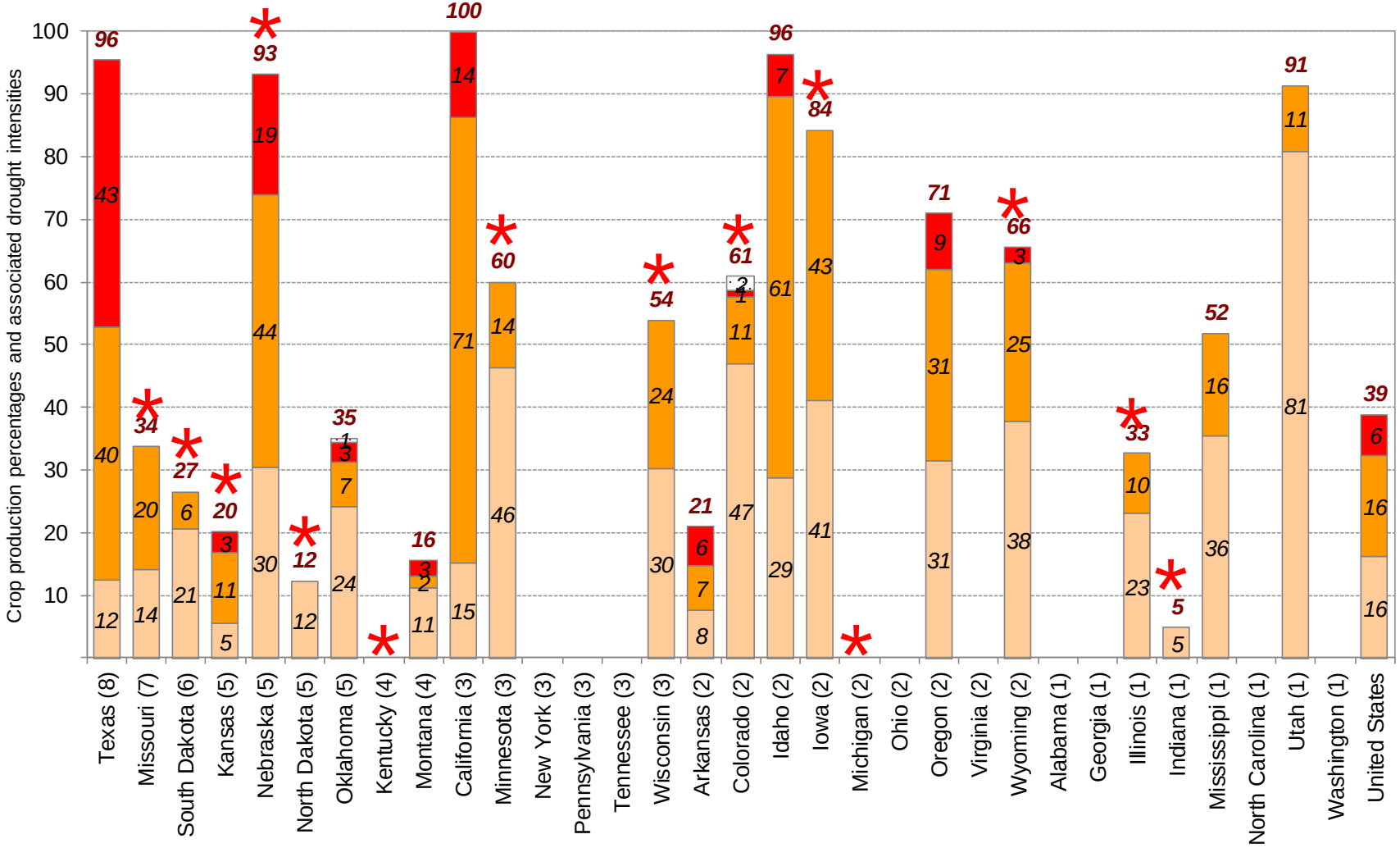
Approximate Percentage of Hay Located in Drought *

September 17, 2013



* Drought percentages were calculated from U.S. Drought Monitor (USDM) data for the above date. More information on the USDM is available at http://droughtmonitor.unl.edu/.

Percent in Moderate Drought (D1)
Percent in Severe Drought (D2)
Percent in Extreme Drought (D3)
Percent in Exceptional Drought (D4)

State contributions to national production (percentages in parentheses) are based upon National Agricultural Statistics Service (NASS) 2007 Census of Agriculture data. More information on NASS data can be found at http://www.nass.usda.gov/.

* Central Region state

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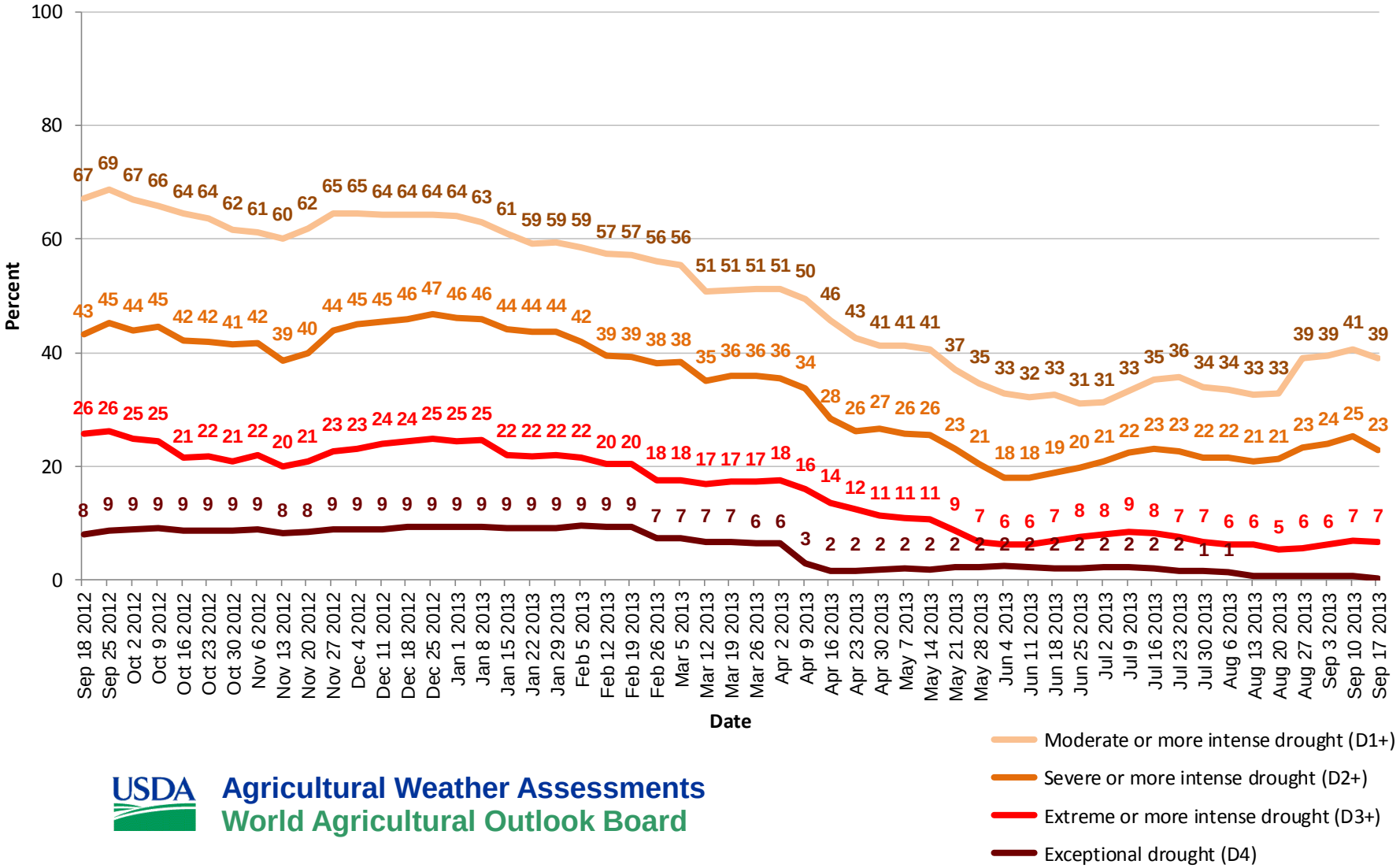
World Agricultural Outlook Board

United States Hay Areas Located in Drought



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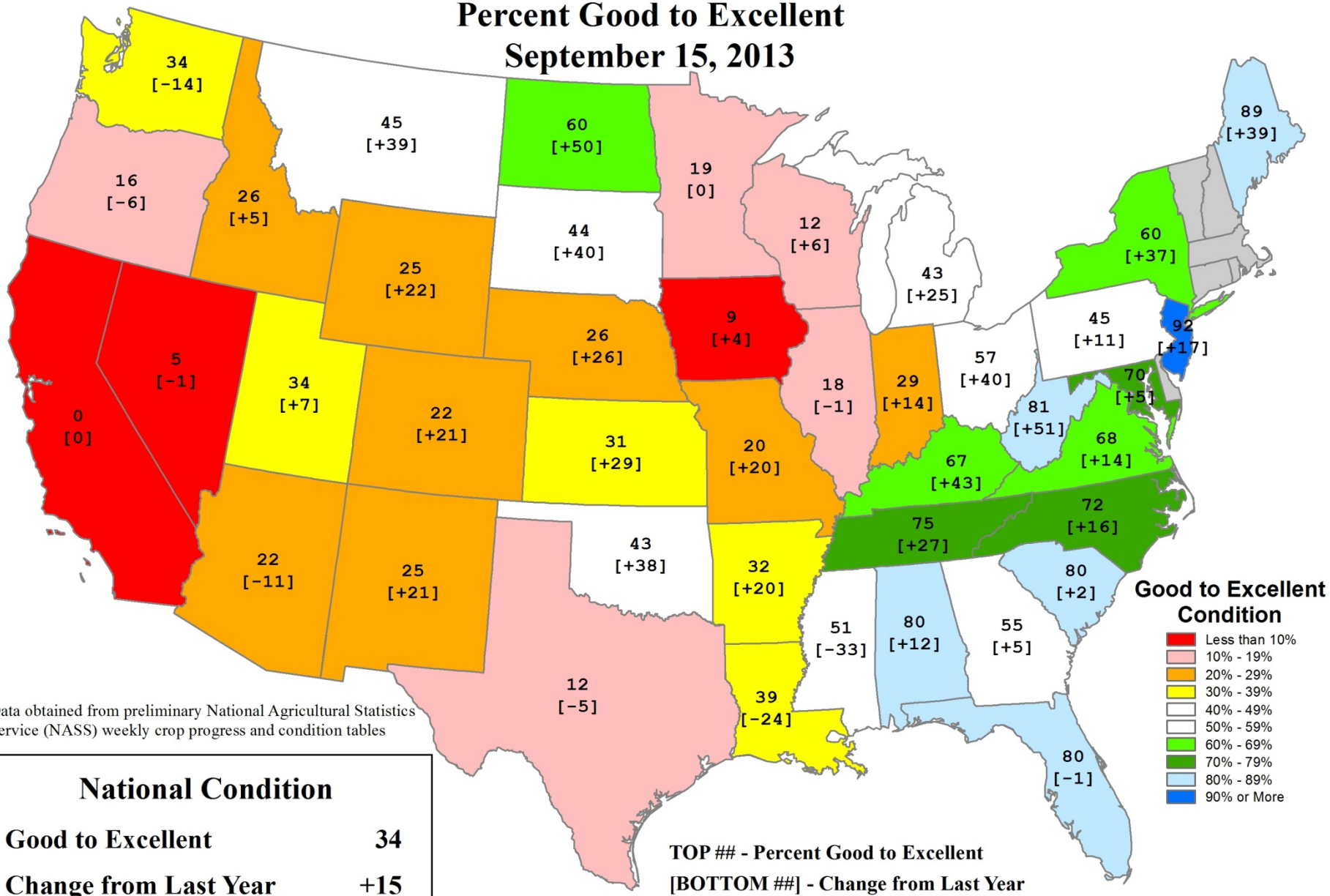
U.S. Pasture and Range Conditions

Percent Good to Excellent
September 15, 2013



Data obtained from preliminary National Agricultural Statistics Service (NASS) weekly crop progress and condition tables

National Condition	
Good to Excellent	34
Change from Last Year	+15

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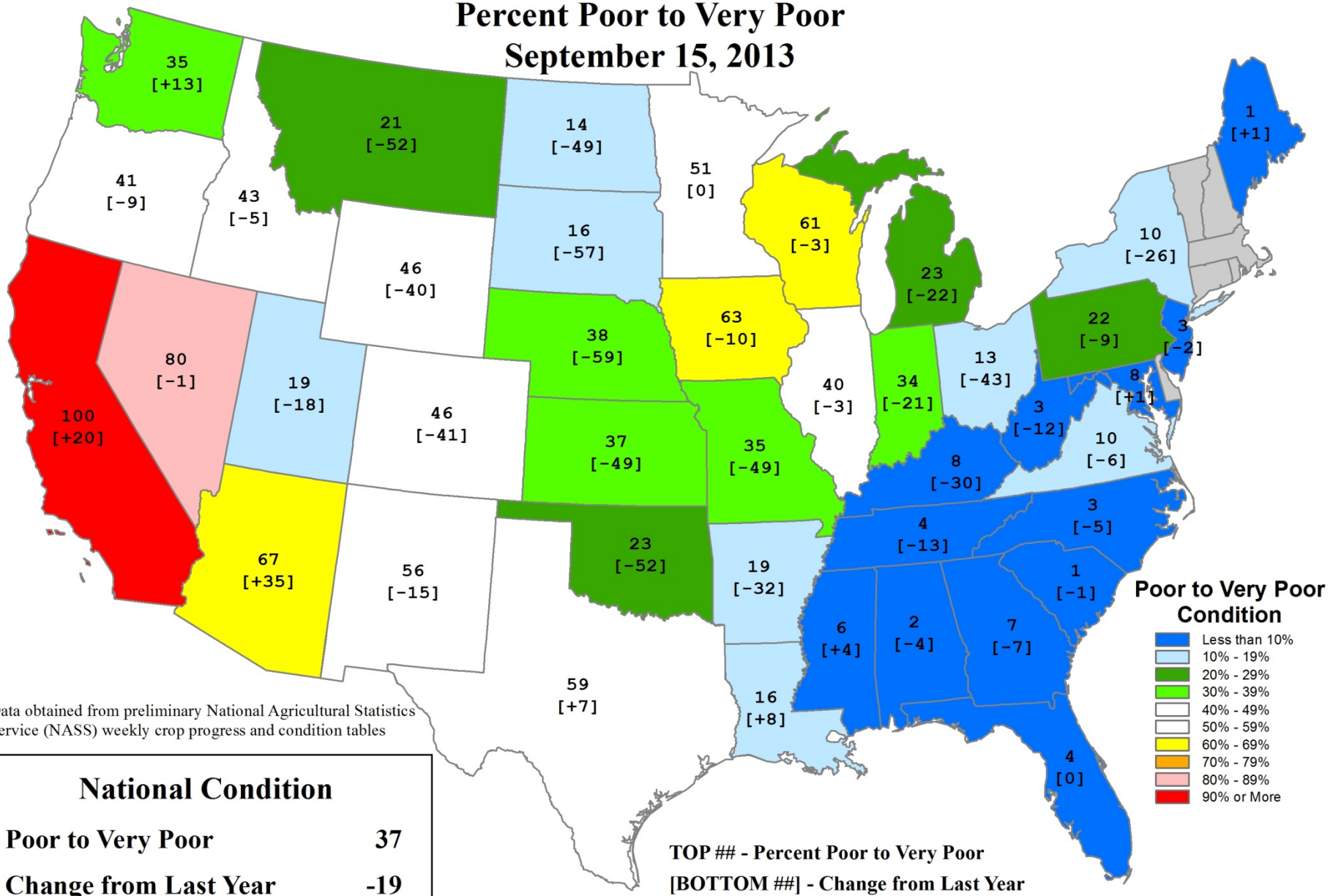
U.S. Pasture and Range Conditions

Percent Poor to Very Poor
September 15, 2013



Data obtained from preliminary National Agricultural Statistics Service (NASS) weekly crop progress and condition tables

National Condition	
Poor to Very Poor	37
Change from Last Year	-19

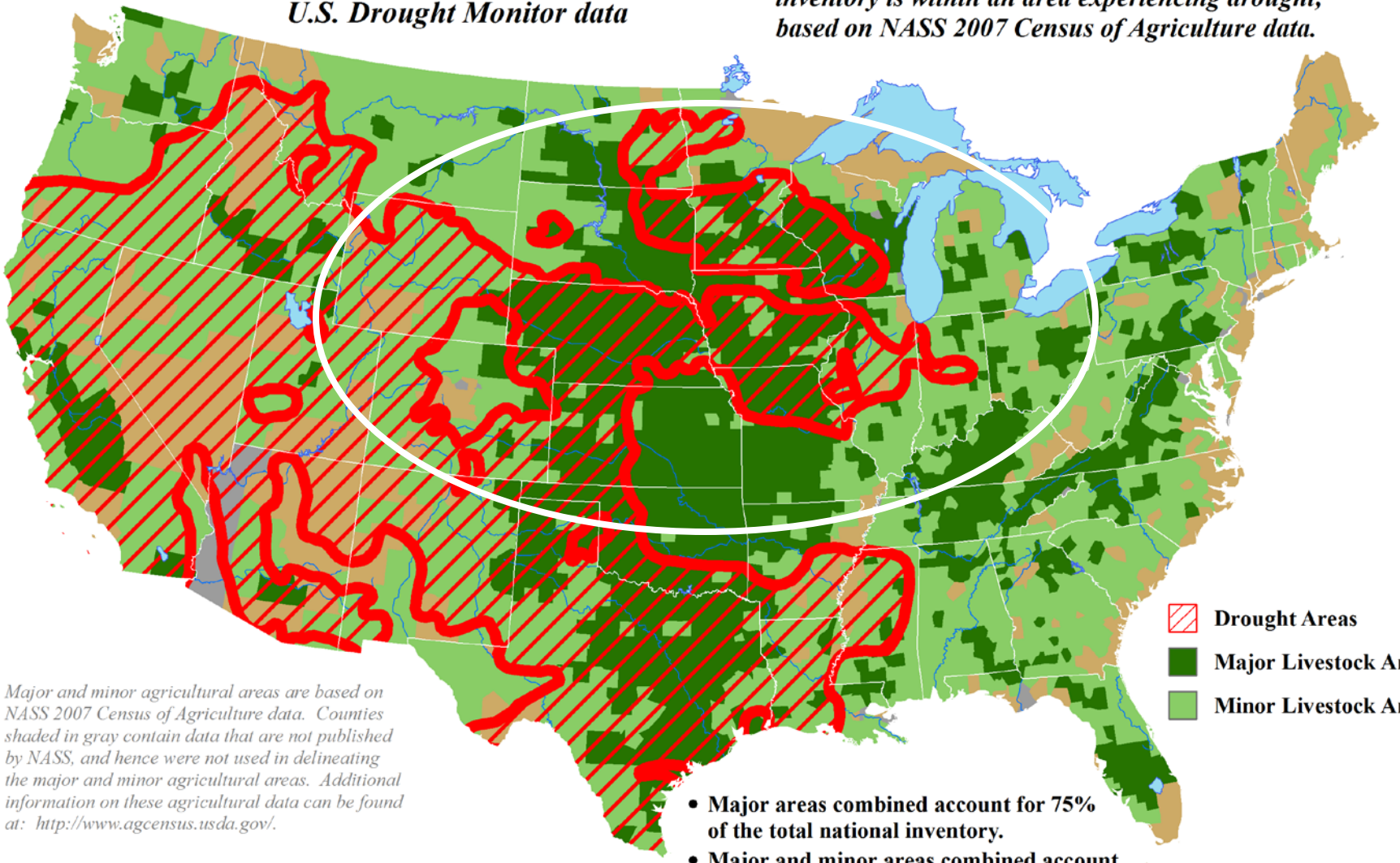
TOP ## - Percent Poor to Very Poor
[BOTTOM ##] - Change from Last Year

USDA Agricultural Weather Assessments
World Agricultural Outlook Board

U.S. Cattle Areas Experiencing Drought

Reflects September 17, 2013 U.S. Drought Monitor data

Approximately 53% of the domestic cattle inventory is within an area experiencing drought, based on NASS 2007 Census of Agriculture data.



- **Major areas combined account for 75% of the total national inventory.**
- **Major and minor areas combined account for 99% of the total national inventory.**

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/.

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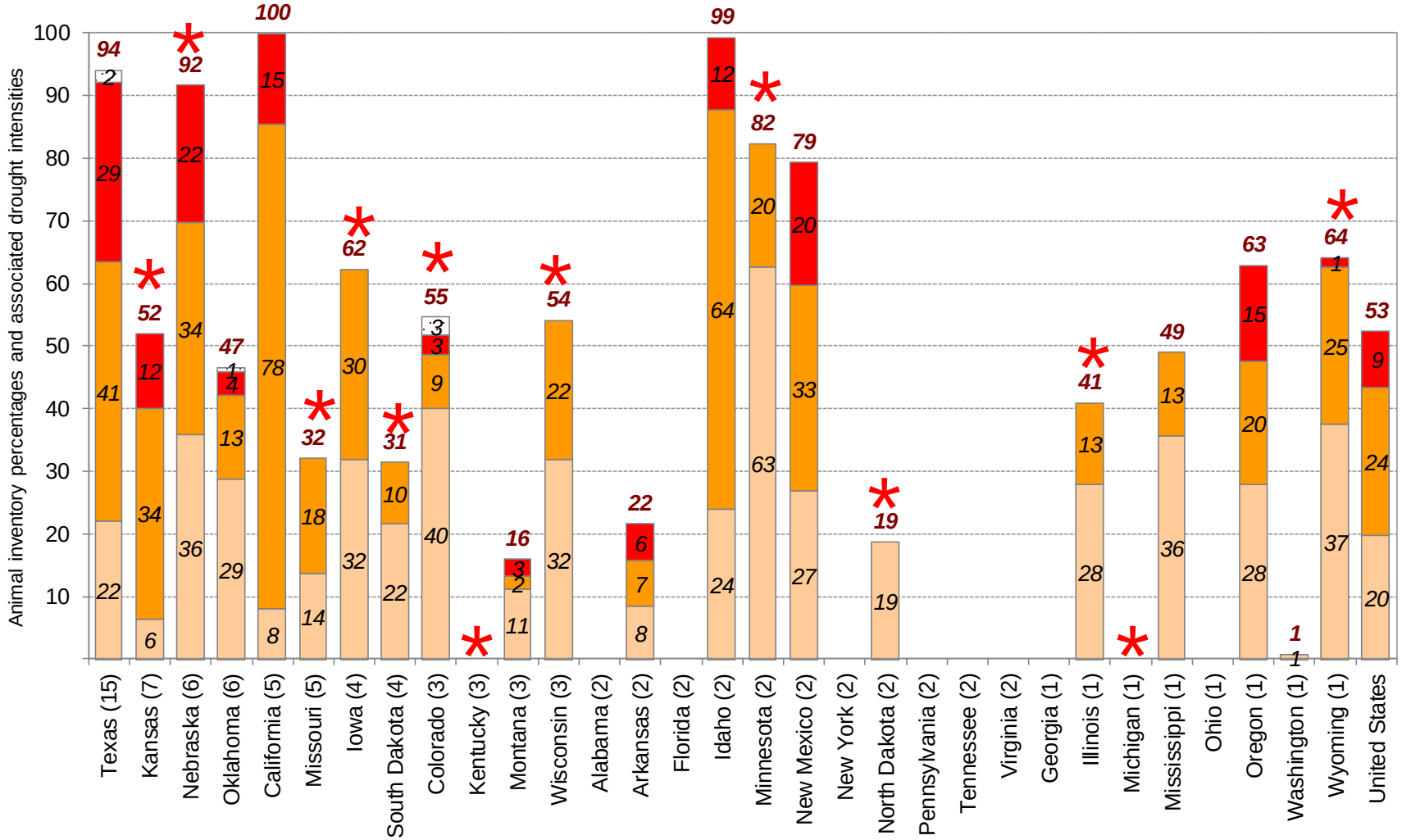
USDA Agricultural Weather Assessments
World Agricultural Outlook Board

Approximate Percentage of Cattle Located in Drought *

September 17, 2013



* Drought percentages were calculated from U.S. Drought Monitor (USDM) data for the above date. More information on the USDM is available at http://droughtmonitor.unl.edu/.

Percent in Moderate Drought (D1)
Percent in Severe Drought (D2)
Percent in Extreme Drought (D3)
Percent in Exceptional Drought (D4)

State contributions to the total national inventory (percentages in parentheses) are based upon National Agricultural Statistics Service (NASS) 2007 Census of Agriculture data. More information on NASS data can be found at http://www.nass.usda.gov/.

* Central Region state

USDA Agricultural Weather Assessments
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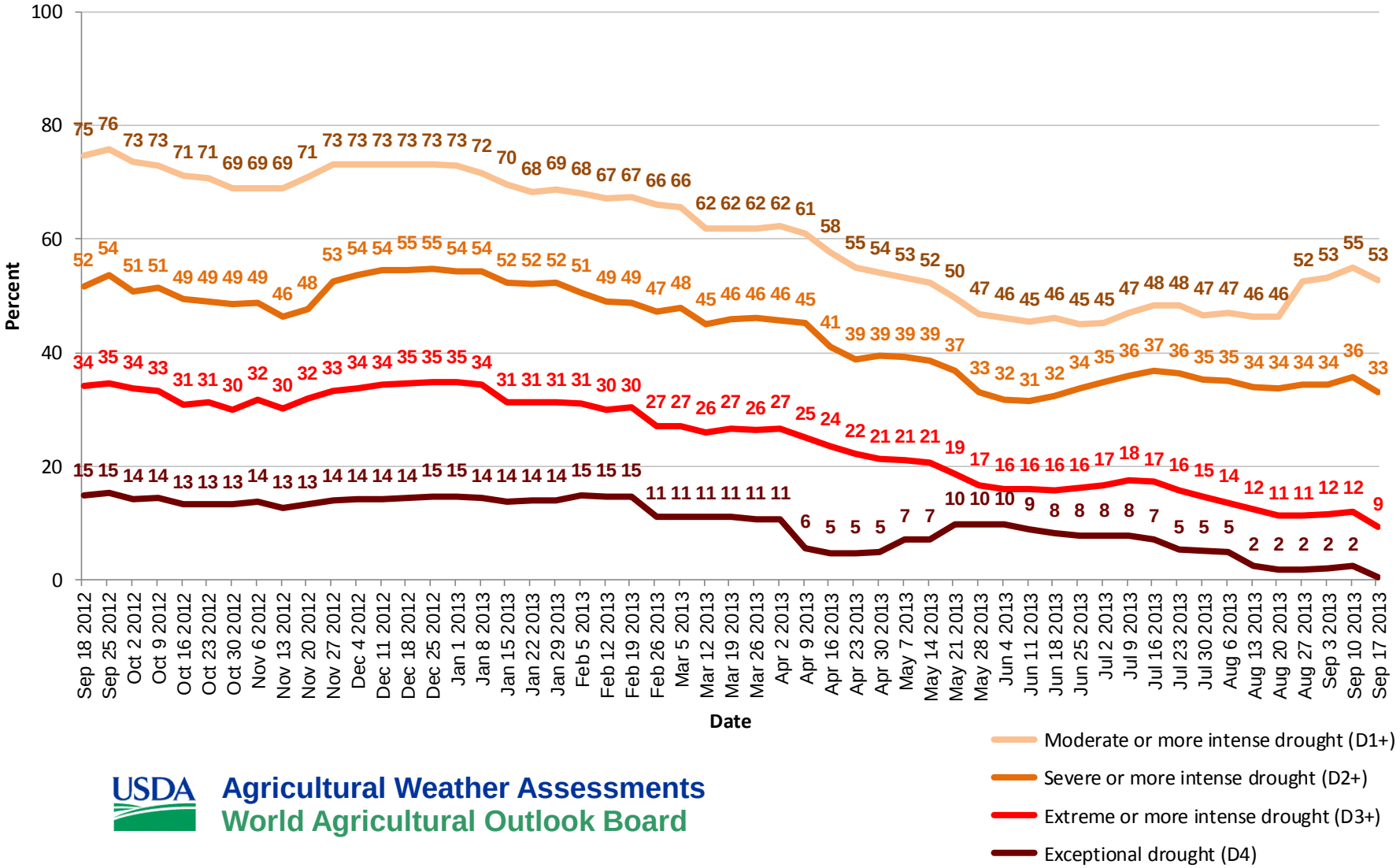
United States Cattle Areas Located in Drought

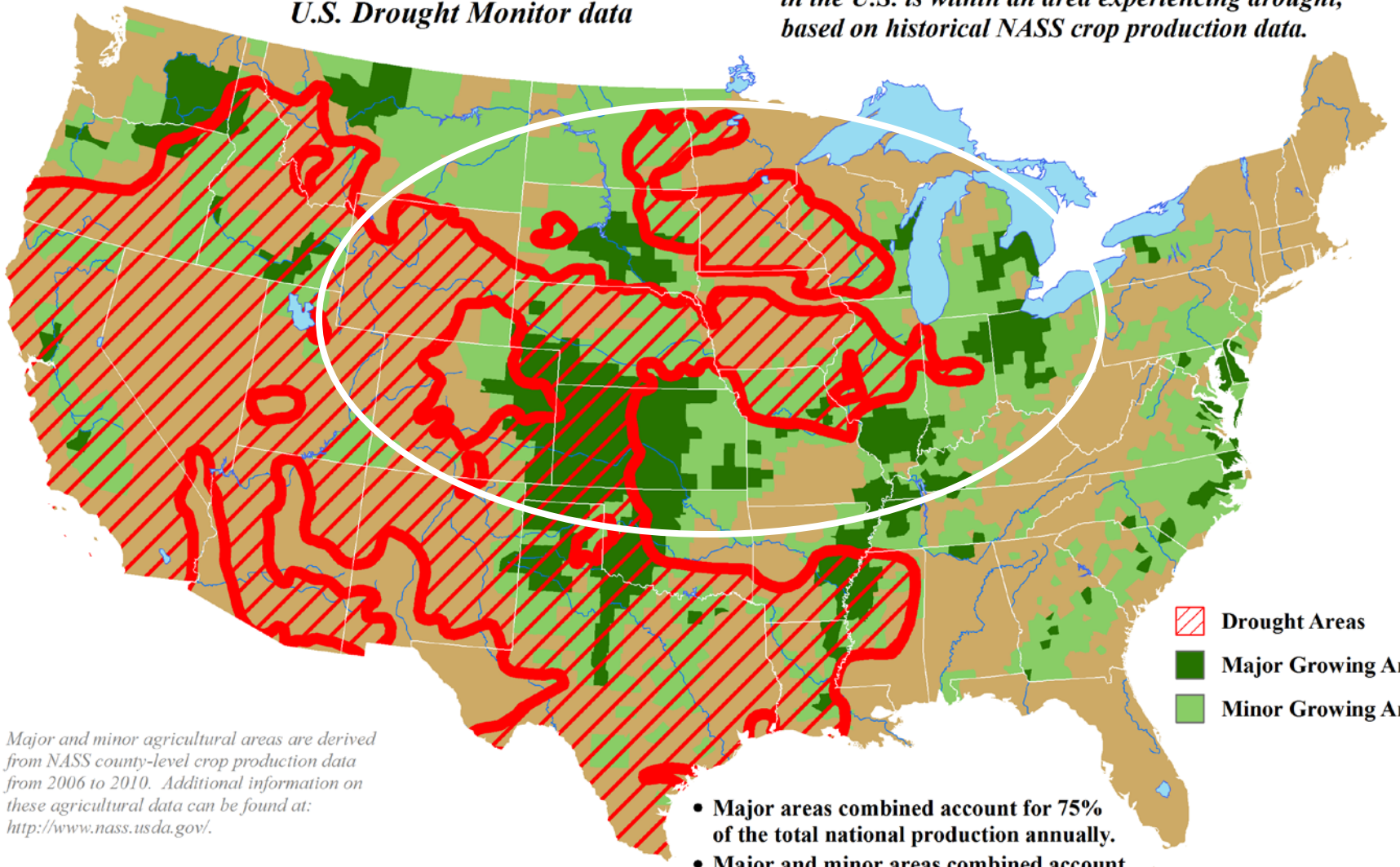


USDA Agricultural Weather Assessments
World Agricultural Outlook Board

U.S. Winter Wheat Areas Experiencing Drought

Reflects September 17, 2013
U.S. Drought Monitor data

Approximately 43% of the winter wheat grown in the U.S. is within an area experiencing drought, based on historical NASS crop production data.



- **Major areas combined account for 75% of the total national production annually.**
- **Major and minor areas combined account for 99% of the total national production annually.**

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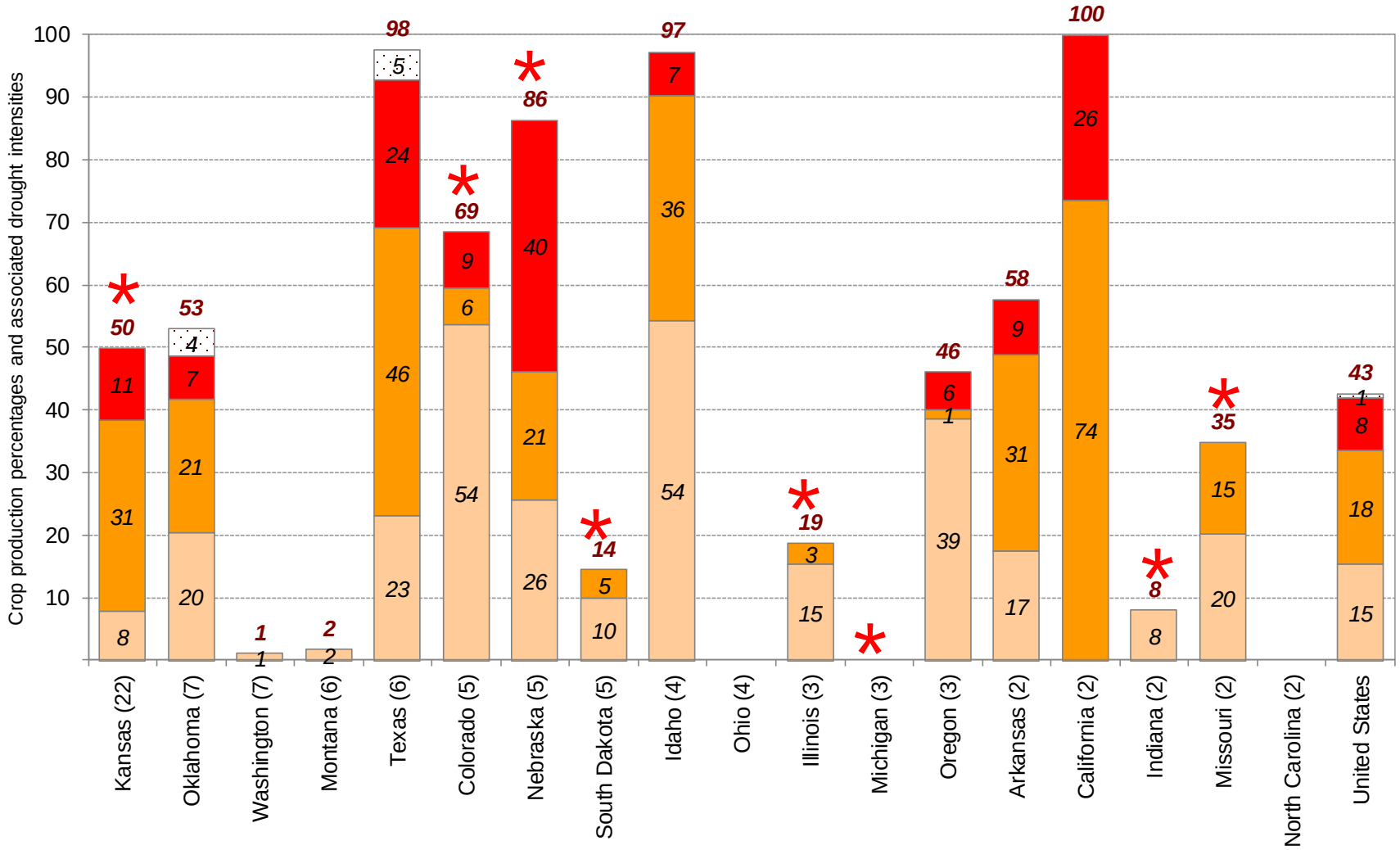
USDA **Agricultural Weather Assessments**
World Agricultural Outlook Board

Approximate Percentage of Winter Wheat Located in Drought *

September 17, 2013



* Drought percentages were calculated from U.S. Drought Monitor (USDM) data for the above date. More information on the USDM is available at http://droughtmonitor.unl.edu/.

Percent in Moderate Drought (D1)
Percent in Severe Drought (D2)
Percent in Extreme Drought (D3)
Percent in Exceptional Drought (D4)

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* Central Region state

USDA Agricultural Weather Assessments
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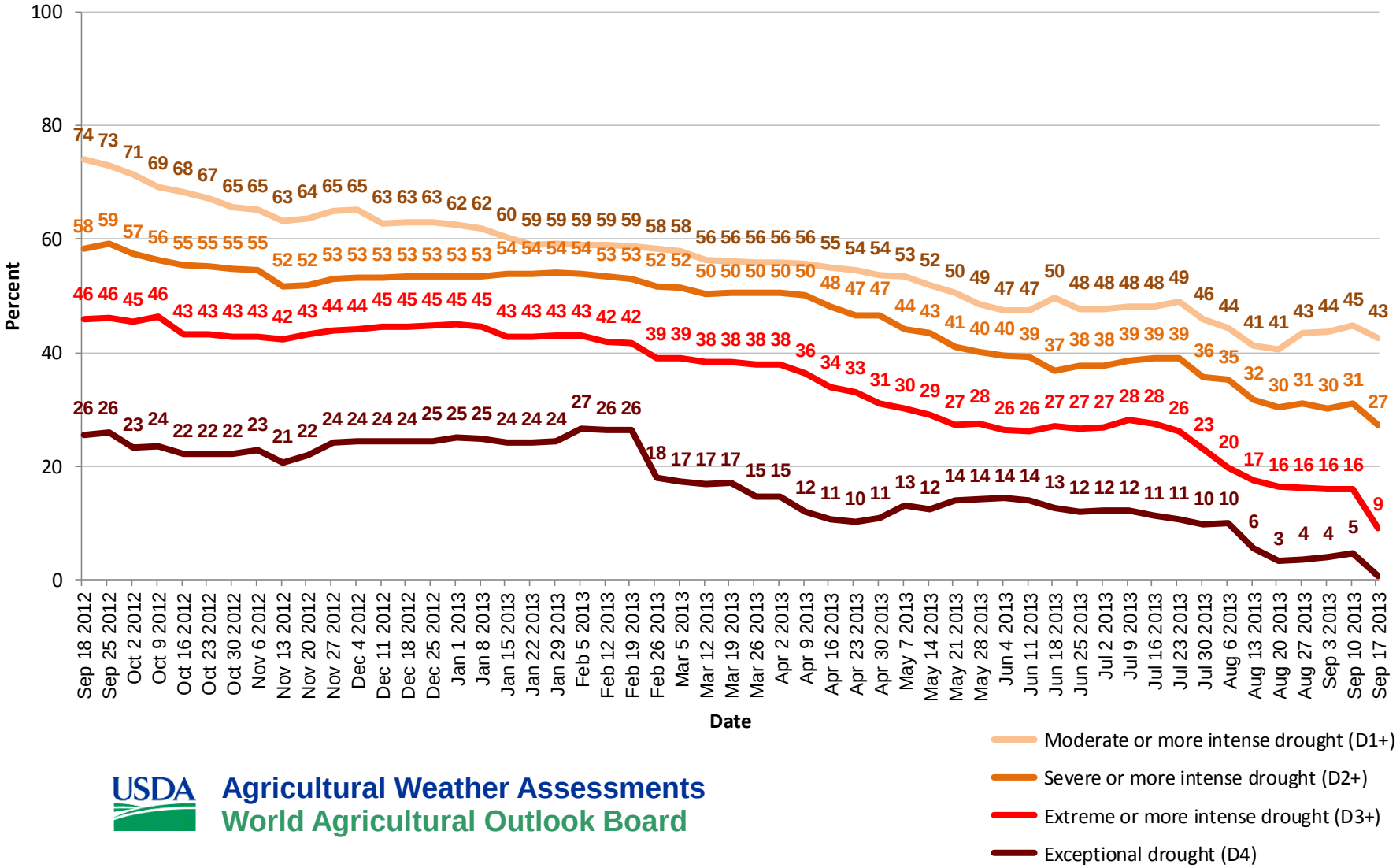
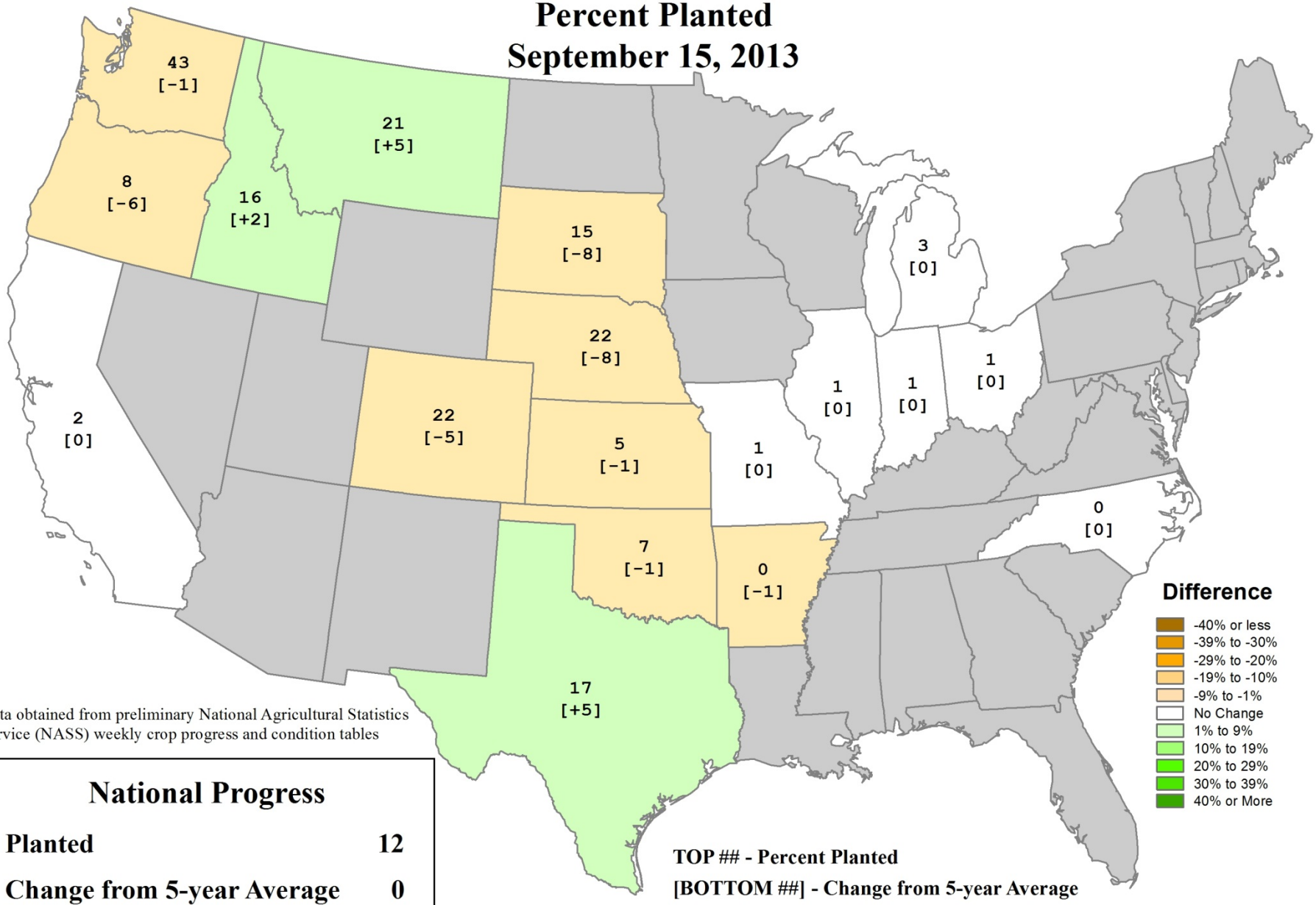
United States Winter Wheat Areas Located in Drought



USDA Agricultural Weather Assessments
World Agricultural Outlook Board

U.S. Winter Wheat Progress

Percent Planted
September 15, 2013



Data obtained from preliminary National Agricultural Statistics Service (NASS) weekly crop progress and condition tables

National Progress	
Planted	12
Change from 5-year Average	0

TOP ## - Percent Planted
[BOTTOM ##] - Change from 5-year Average

USDA Agricultural Weather Assessments
World Agricultural Outlook Board

Comments? Questions?

- **Contact info:**
  - e-mail: brippey@oce.usda.gov
  - phone: (202) 720-2397

Photo by B. Rippey
Saline Co., Nebraska
April 18, 2013