

NOAA-NWS and Partners Midwest and Great Plains Drought Update Webinar

Mark Svoboda

**National Drought Mitigation Center
School of Natural Resources
University of Nebraska-Lincoln**



NOAA-NWS CR Webinar Series, September 6, 2012



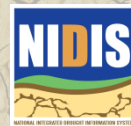
General Information

- * **Providing climate services to the Central Region**
 - * Collaboration with Dennis Todey (South Dakota State Climatologist), Doug Kluck (NOAA - RCSD) and John Eise (Climate Service Program Manager), State Climatologists and the Midwest Regional Climate Center, High Plains Regional Climate Center, NOAA's Climate Prediction Center, Iowa State University, and the National Drought Mitigation Center
- * **Next Climate/Drought Outlook Webinar**
- * **Access to Climate/Drought Webinars and information**
- * <http://mrcc.isws.illinois.edu/webinars.htm>
- * <http://www.hprcc.unl.edu>
- * **Operator Assistance for questions at the end**



Agenda

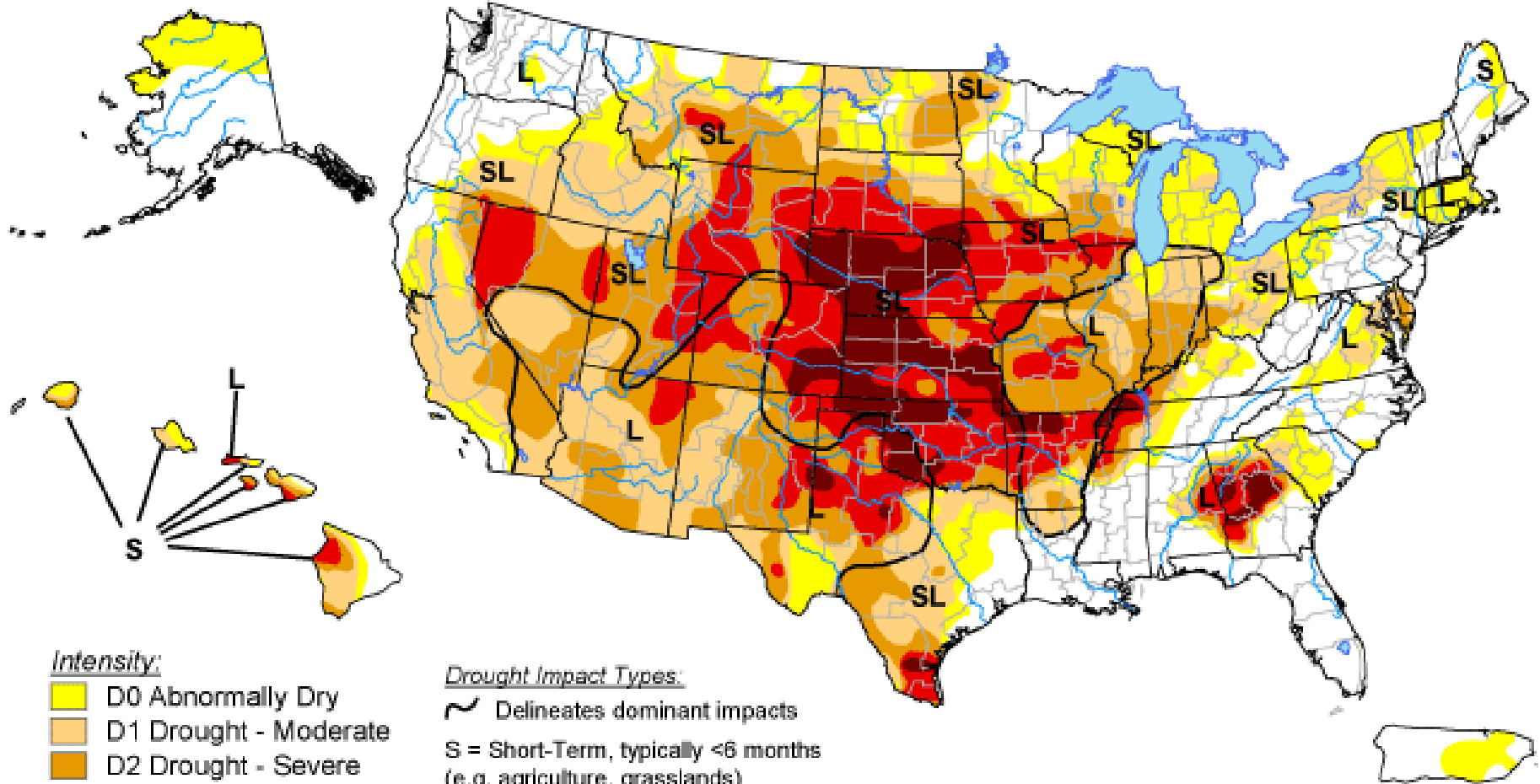
- **Current Conditions**
- **Outlooks**
- **Drought Impacts**
- **Questions / Comments**



U.S. Drought Monitor

September 4, 2012

Valid 7 a.m. EDT



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 6, 2012

Author: Brian Fuchs, National Drought Mitigation Center

Drought Condition (Percent Area): United States

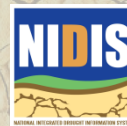
Conditions for the U.S., including Alaska, Hawaii and Puerto Rico

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
One Year Ago	08/30/11	59.26	40.74	27.51	20.68	15.26	9.37
Start of Water Year	09/27/11	63.45	36.55	24.42	19.61	14.87	9.50
Start of Calendar Year	12/27/11	58.88	41.12	23.89	15.88	8.37	2.76
3 Months Ago	06/05/12	46.40	53.60	32.33	15.85	3.86	0.50
Last Week	08/28/12	30.19	69.81	52.63	35.42	19.38	5.05
Current	09/04/12	30.37	69.63	53.06	35.53	17.93	5.13

Conditions for the Contiguous U.S.

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
One Year Ago	08/30/11	54.07	45.93	32.83	24.75	18.27	11.21
Start of Water Year	09/27/11	56.45	43.55	29.13	23.44	17.80	11.37
Start of Calendar Year	12/27/11	50.89	49.11	28.49	18.95	10.01	3.31
3 Months Ago	06/05/12	36.01	63.99	38.60	18.92	4.60	0.60
Last Week	08/28/12	22.31	77.69	62.89	42.34	23.18	6.04
Current	09/04/12	22.54	77.46	63.39	42.48	21.45	6.14

National Drought Mitigation Center



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Nebraska
Lincoln



U.S. Drought Monitor

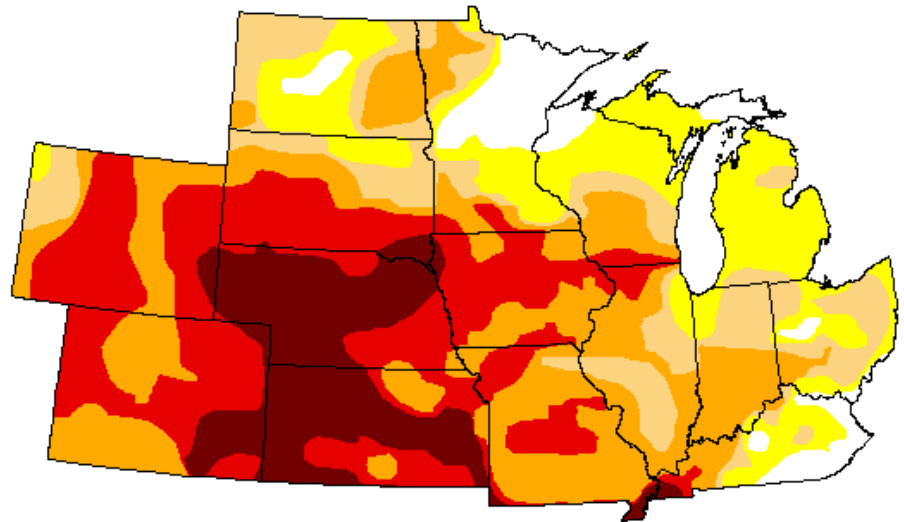
September 4, 2012

Valid 7 a.m. EST

Central Region

Drought Conditions (Percent Area)

	None	D0 - D4	D1 - D4	D2 - D4	D3 - D4	D4
Current	6.26	93.74	77.74	63.66	37.88	12.86
Last Week (8/28/2012)	9.37	90.63	76.84	64.69	43.80	11.07
3 Months Ago (6/5/2012)	37.96	62.04	24.65	5.58	1.15	0.00
1 Year Ago (9/6/2011)	62.24	37.76	16.71	9.07	3.50	1.58



Intensity:

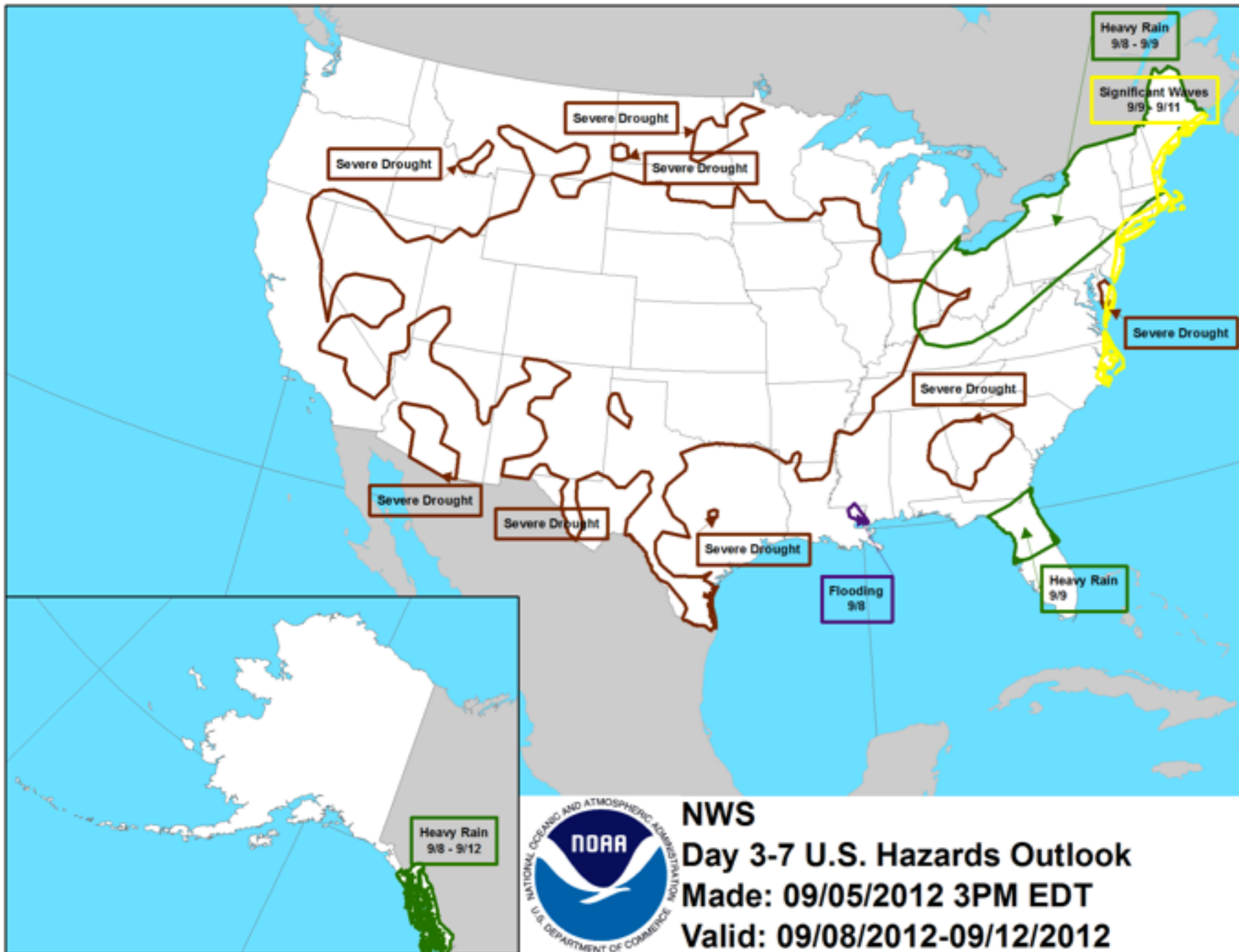


*The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. See accompanying text summary
for forecast statements.*

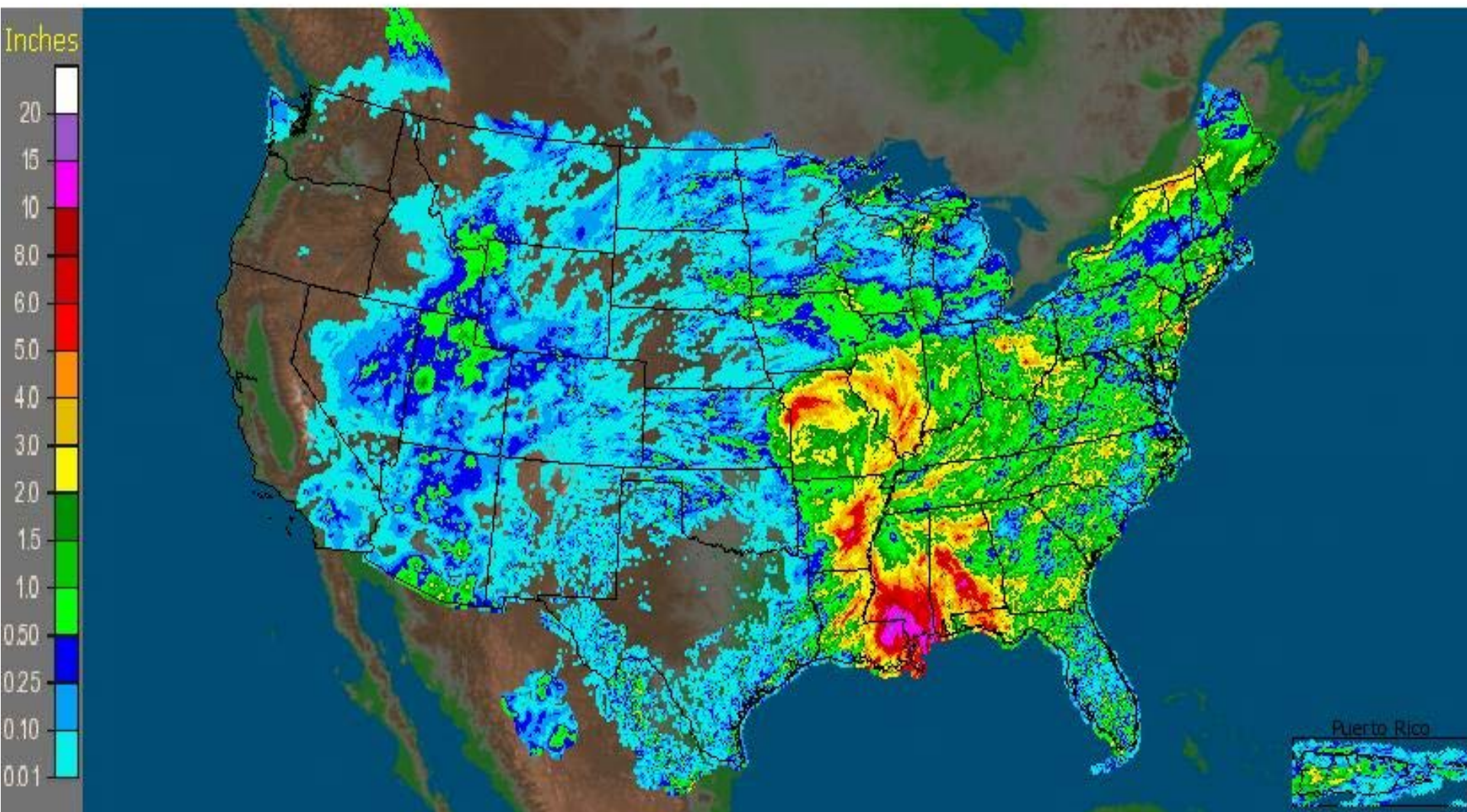
<http://droughtmonitor.unl.edu>



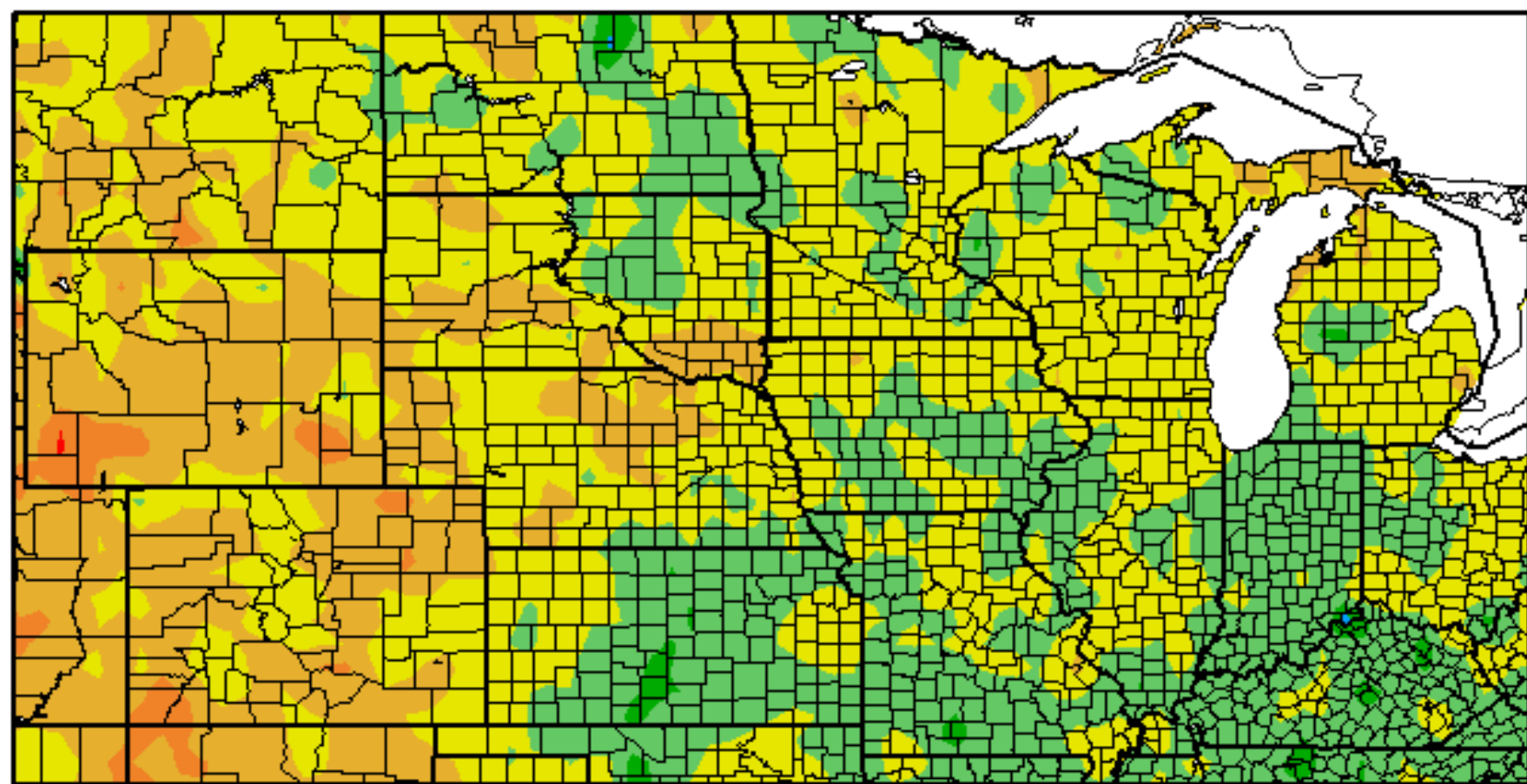
Released Thursday, September 6, 2012
Brian Fuchs, National Drought Mitigation Center



CONUS + Puerto Rico: Current 7-Day Observed Precipitation
Valid at 9/5/2012 1200 UTC- Created 9/5/12 19:38 UTC



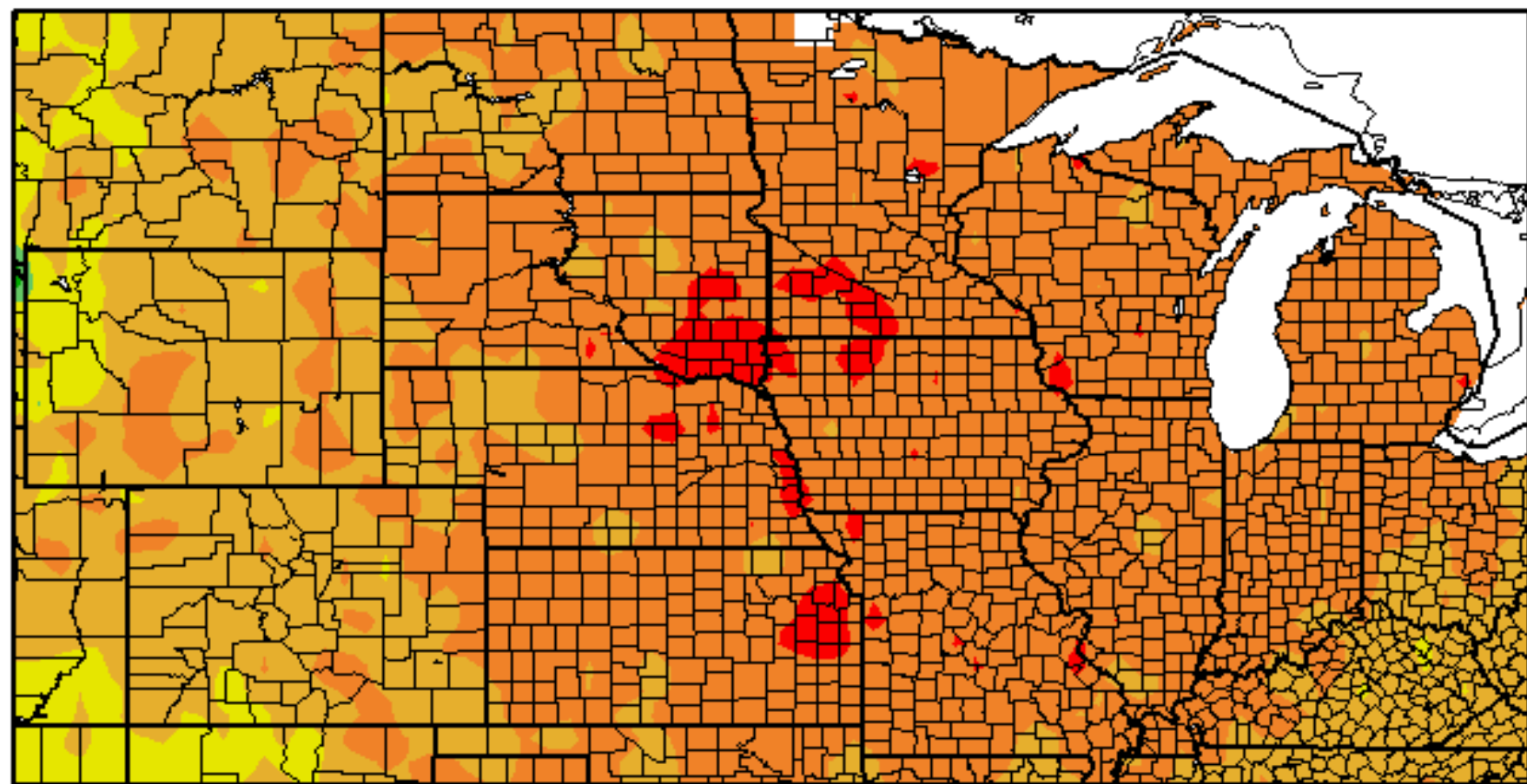
Departure from Normal Temperature (F)
8/7/2012 – 9/5/2012



Generated 9/6/2012 at HPRCC using provisional data.

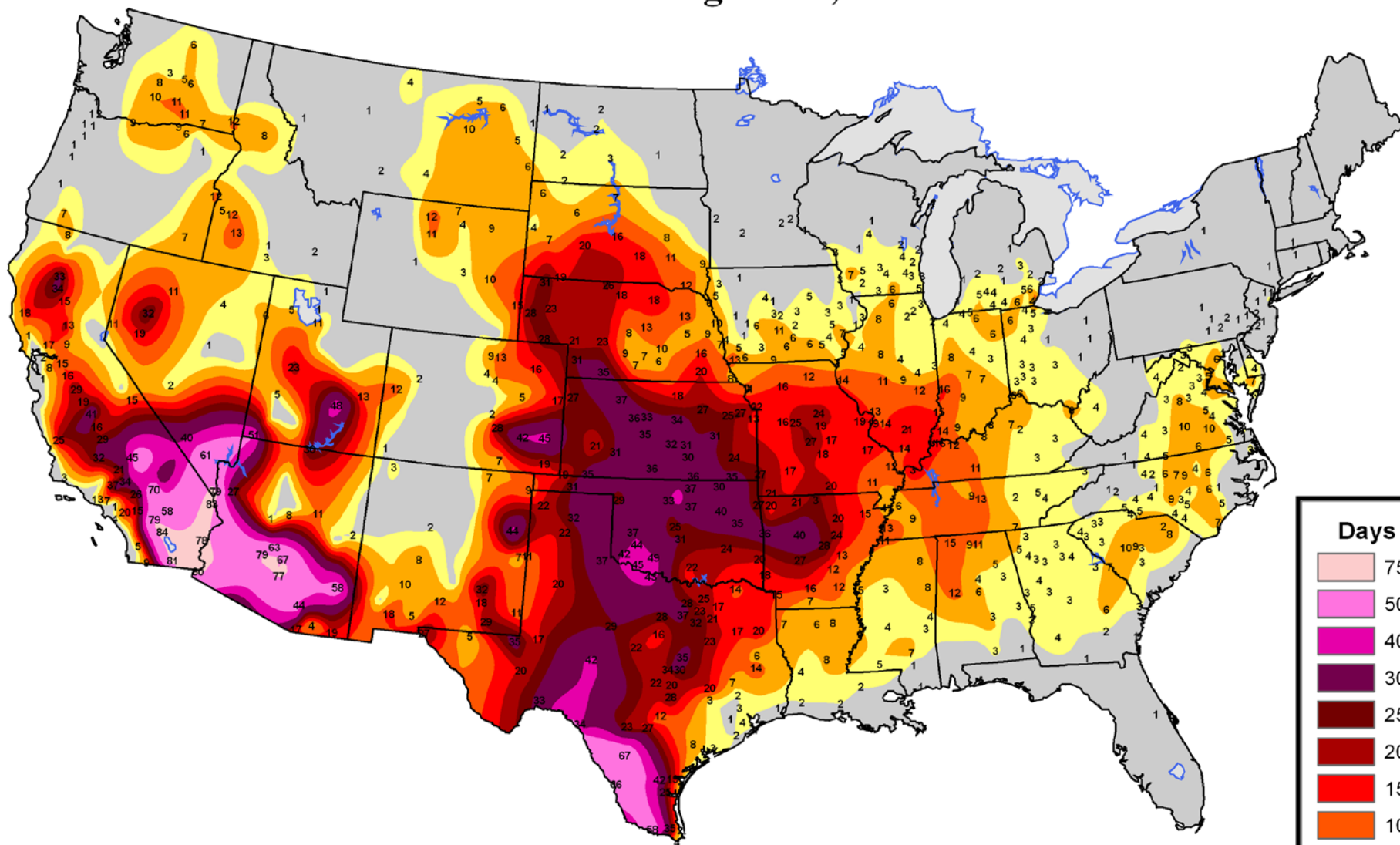
Regional Climate Centers

Departure from Normal Temperature (F)
1/1/2012 – 9/5/2012

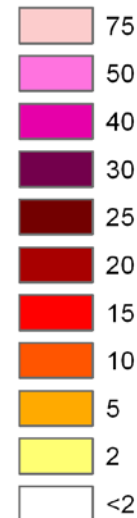


Number of Days $\geq 100^{\circ}\text{F}$

June 1 - August 31, 2012



Days

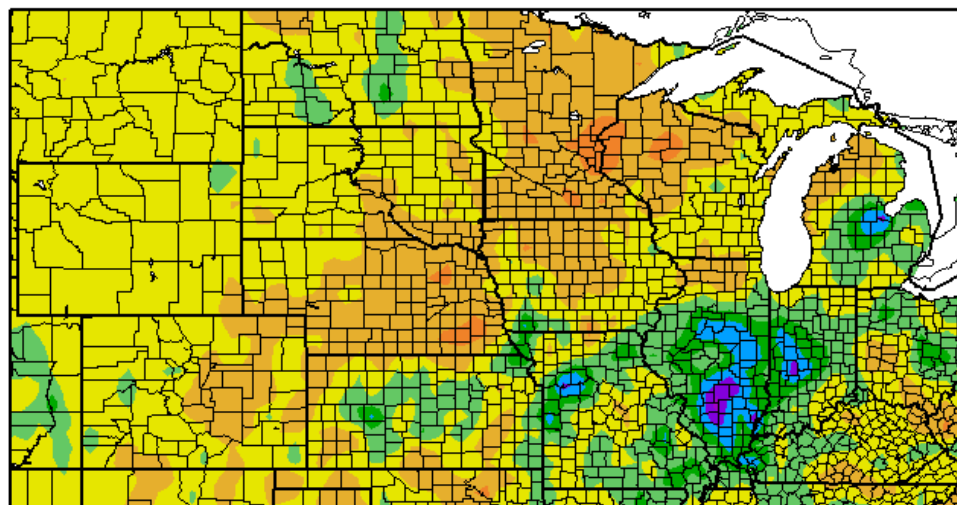


Agricultural Weather Assessments

World Agricultural Outlook Board

Departure from Normal Precipitation (in)

8/7/2012 - 9/5/2012



30 Day ACIS Departure from Normal and % Normal

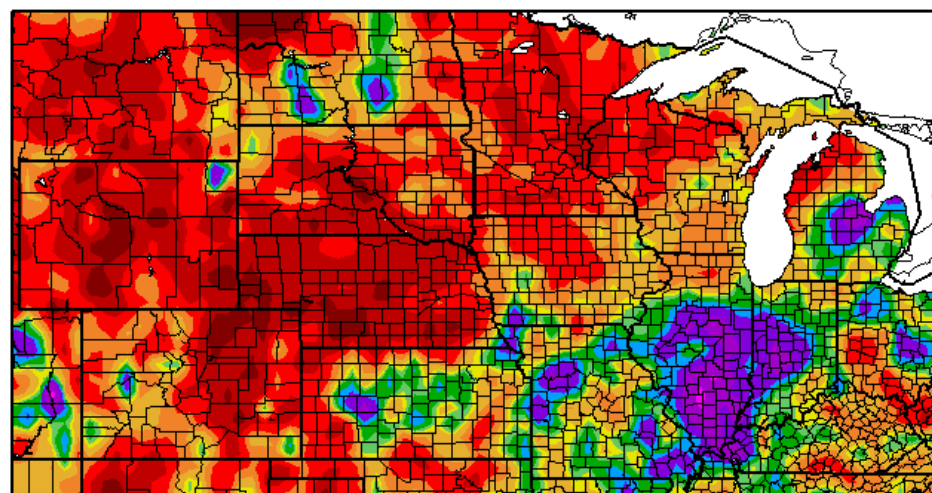
Percent of Normal Precipitation (%)

8/7/2012 - 9/5/2012



Generated 9/6/2012 at HPRCC using provisional data.

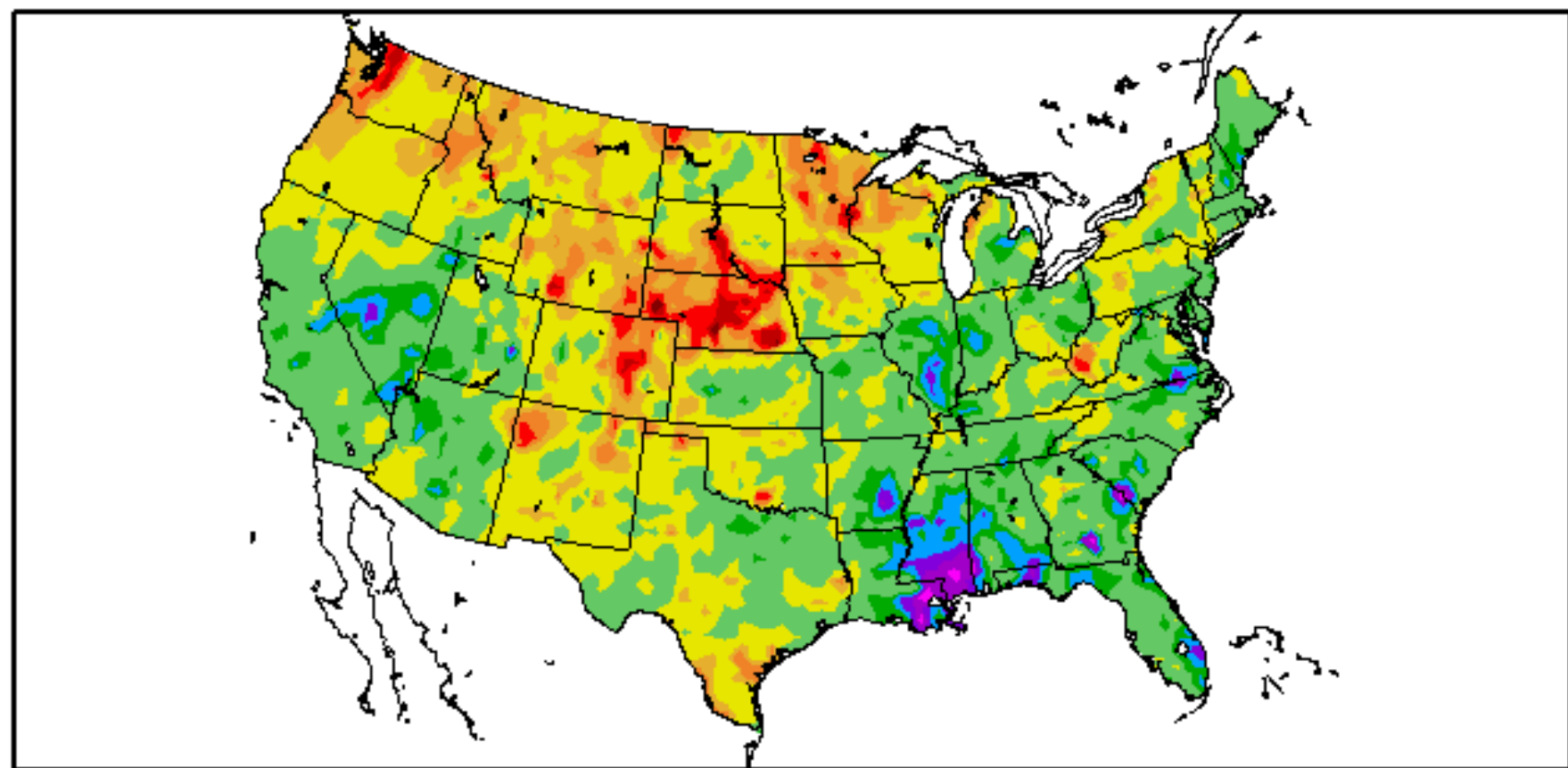
Regional Climate Centers



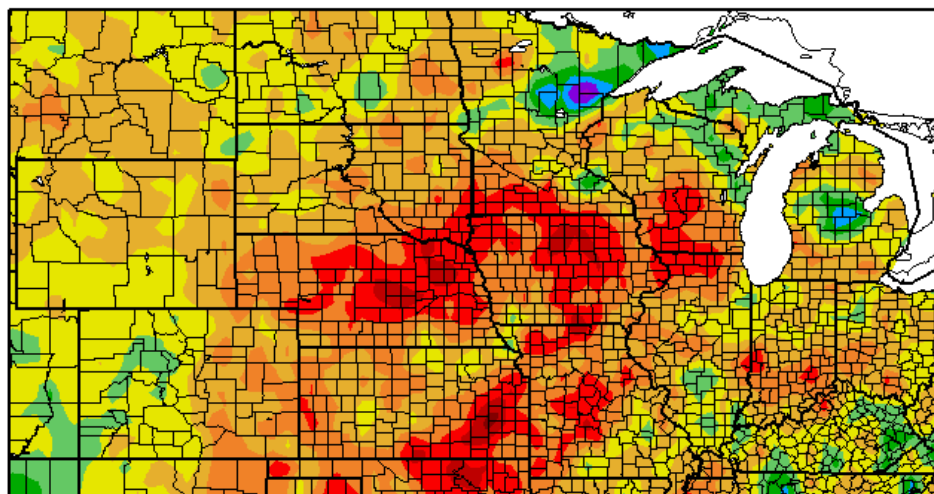
Generated 9/6/2012 at HPRCC using provisional data.

Regional Climate Centers

30 Day SPI
8/7/2012 - 9/5/2012



Departure from Normal Precipitation (in)
6/8/2012 – 9/5/2012



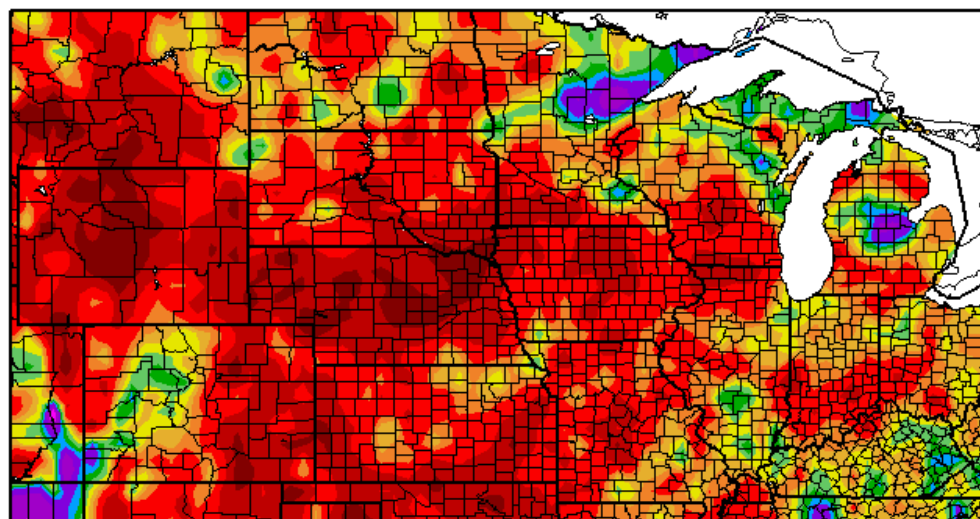
90 Day ACIS Departure from Normal and % of Normal

Percent of Normal Precipitation (%)
6/8/2012 – 9/5/2012



Generated 9/6/2012 at HPRCC using provisional data.

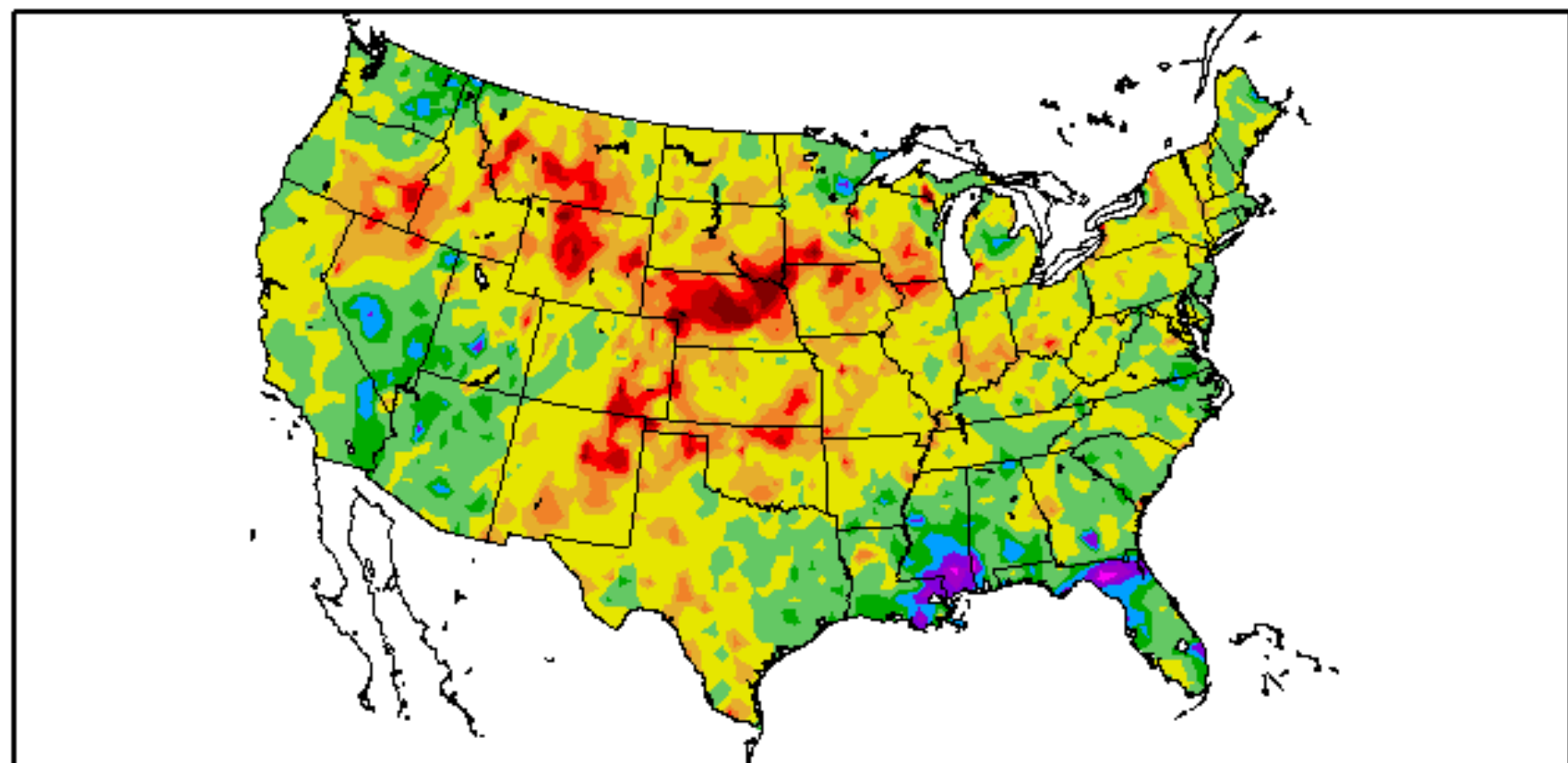
Regional Climate Centers



Generated 9/6/2012 at HPRCC using provisional data.

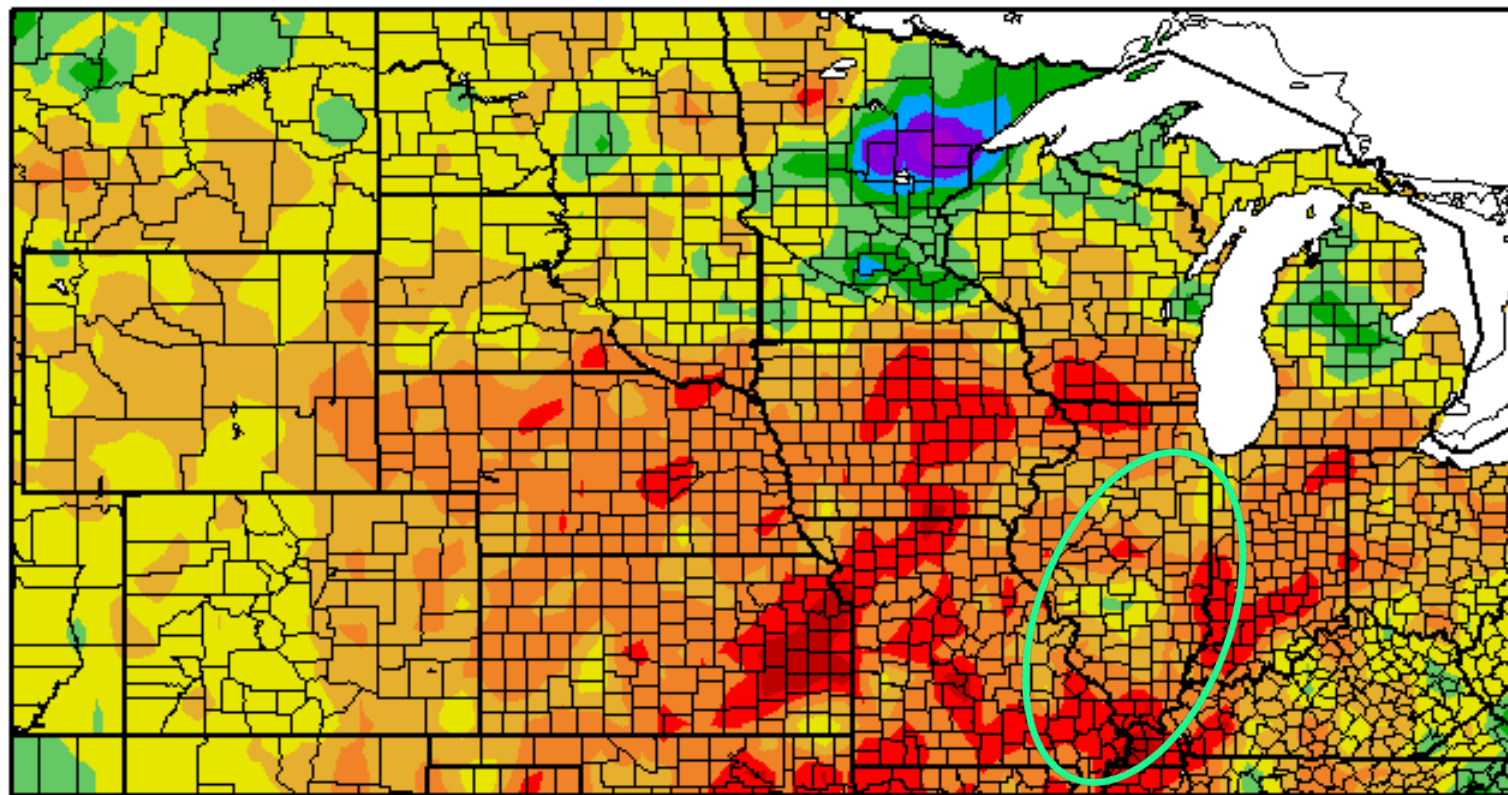
Regional Climate Centers

90 Day SPI
6/8/2012 - 9/5/2012



Growing Season ACIS Departure from Normal

Departure from Normal Precipitation (in)
4/1/2012 - 9/5/2012



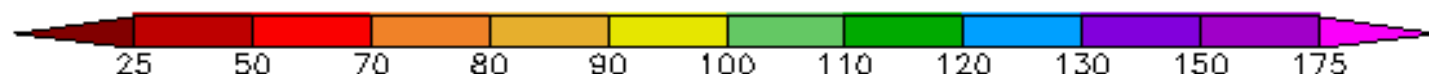
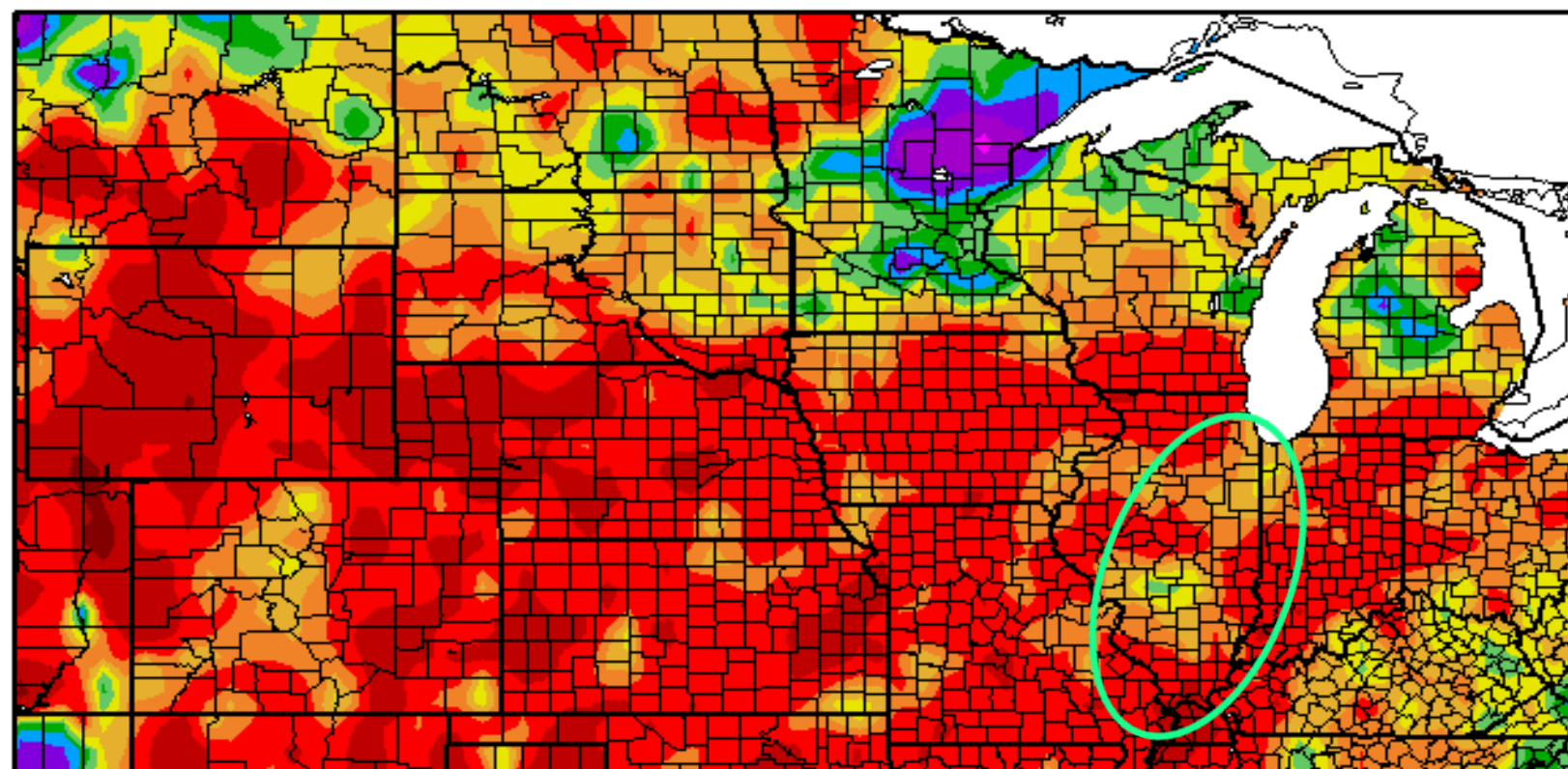
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Regional Climate Centers

Growing Season ACIS

Percent of Normal

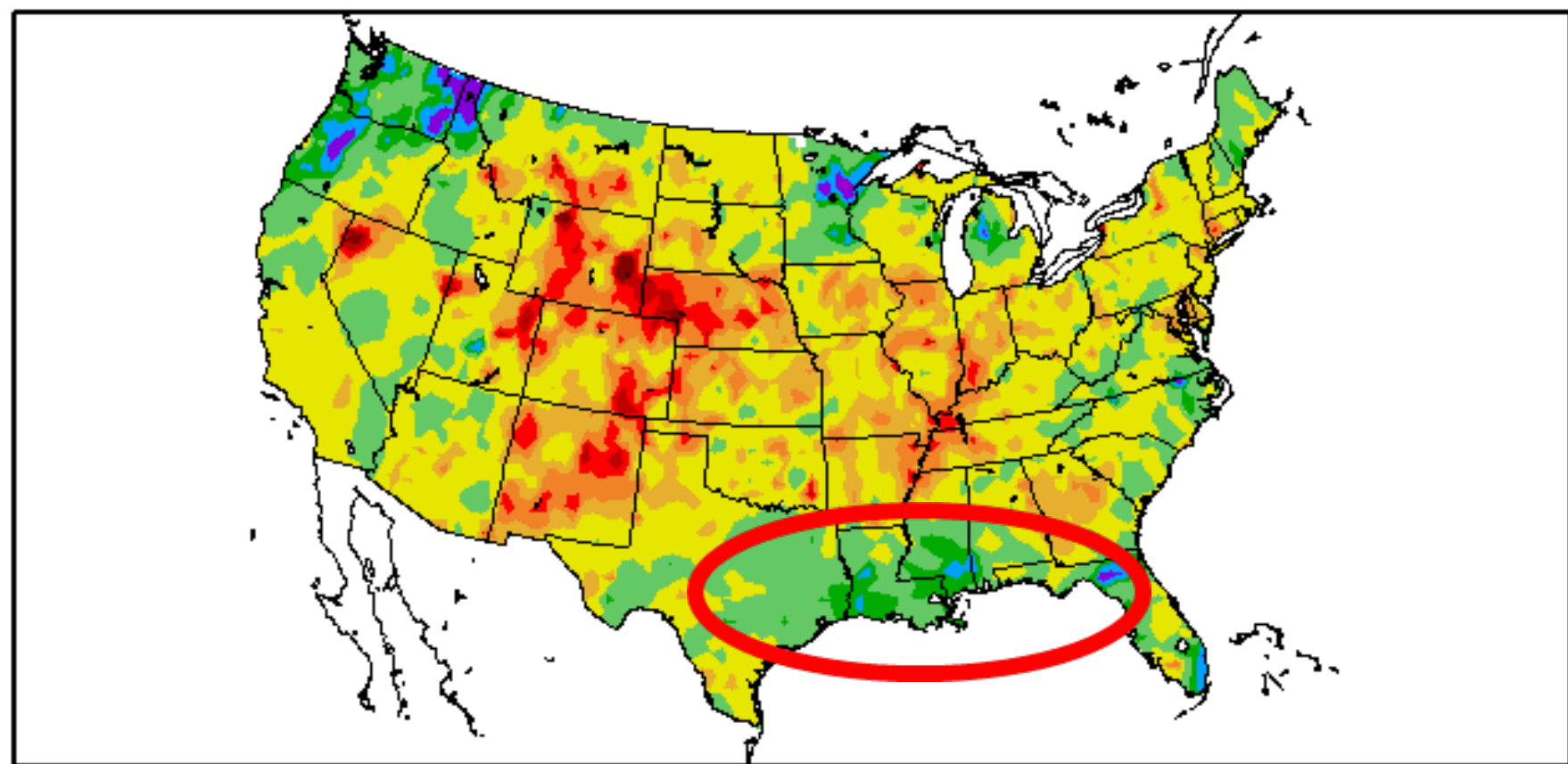
Percent of Normal Precipitation (%)
4/1/2012 – 9/5/2012



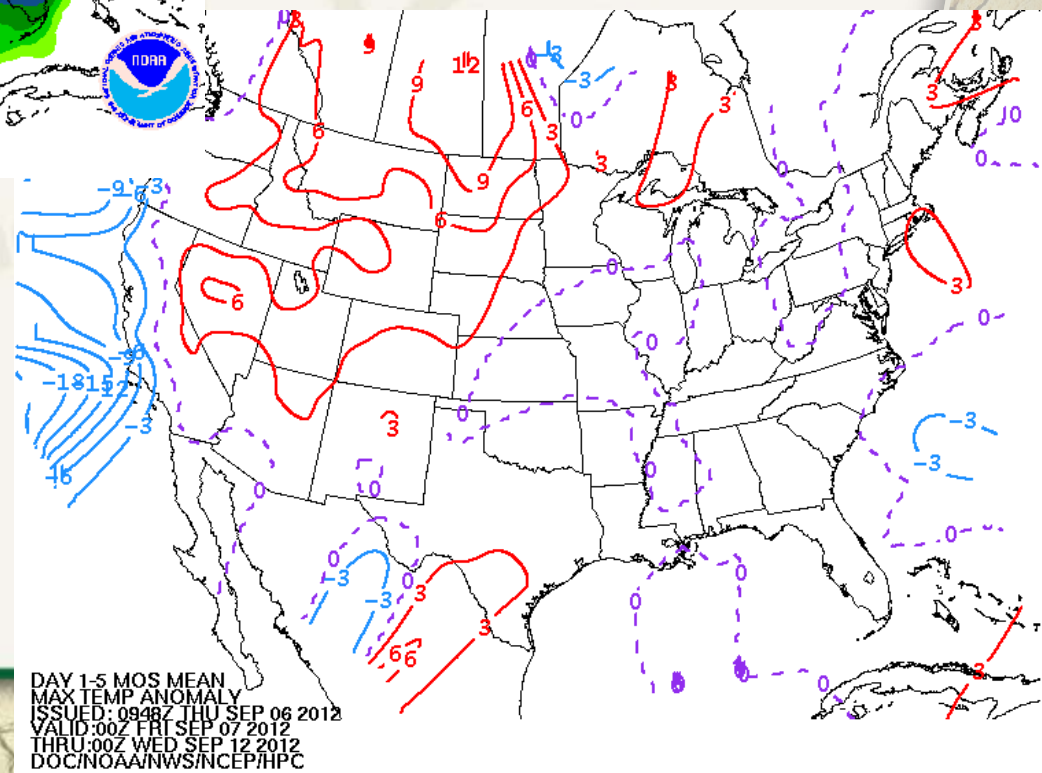
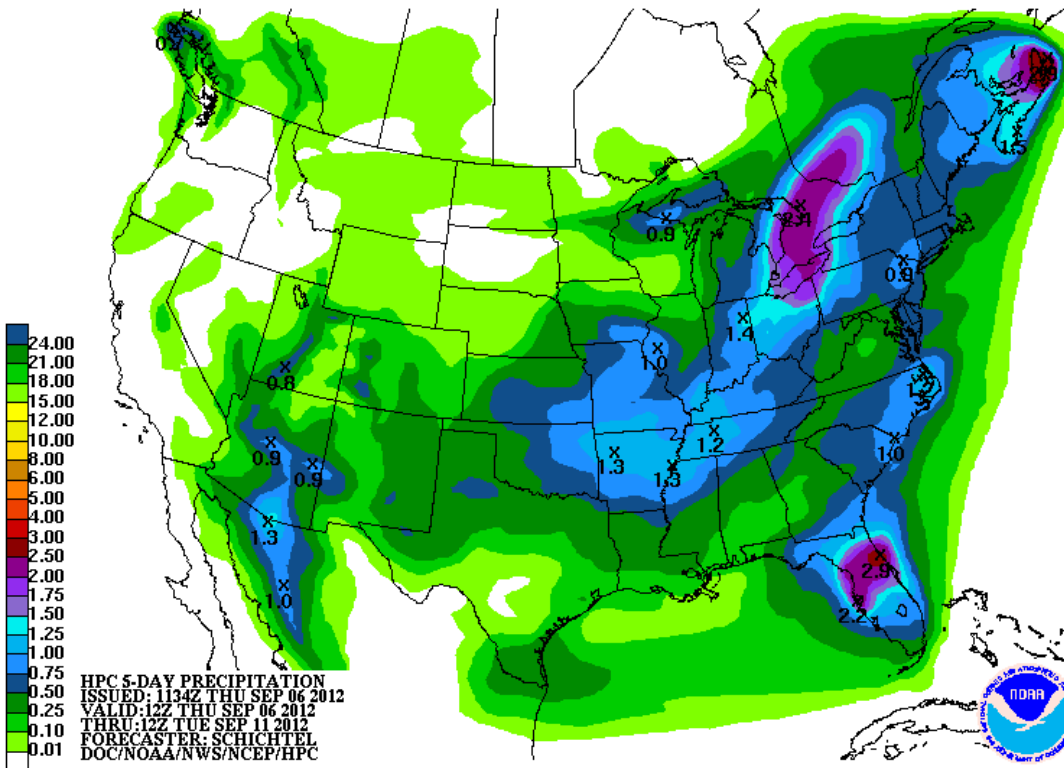
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Regional Climate Centers

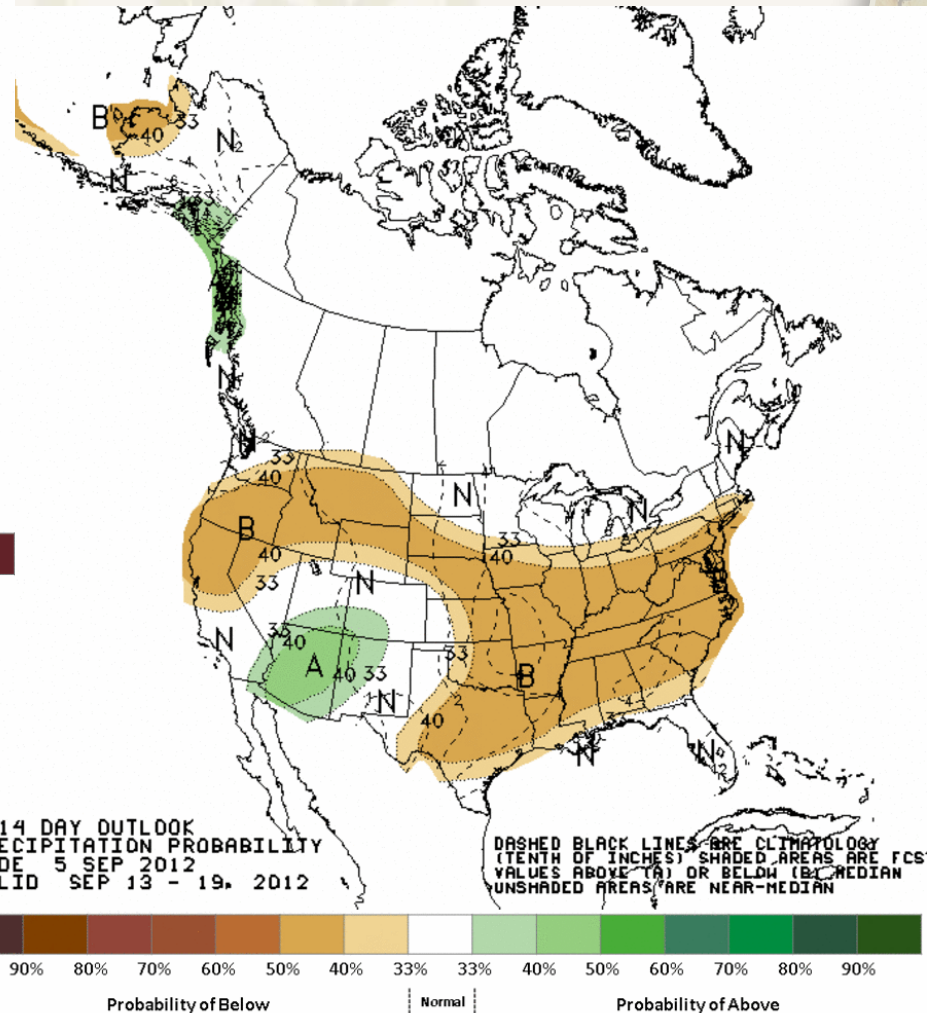
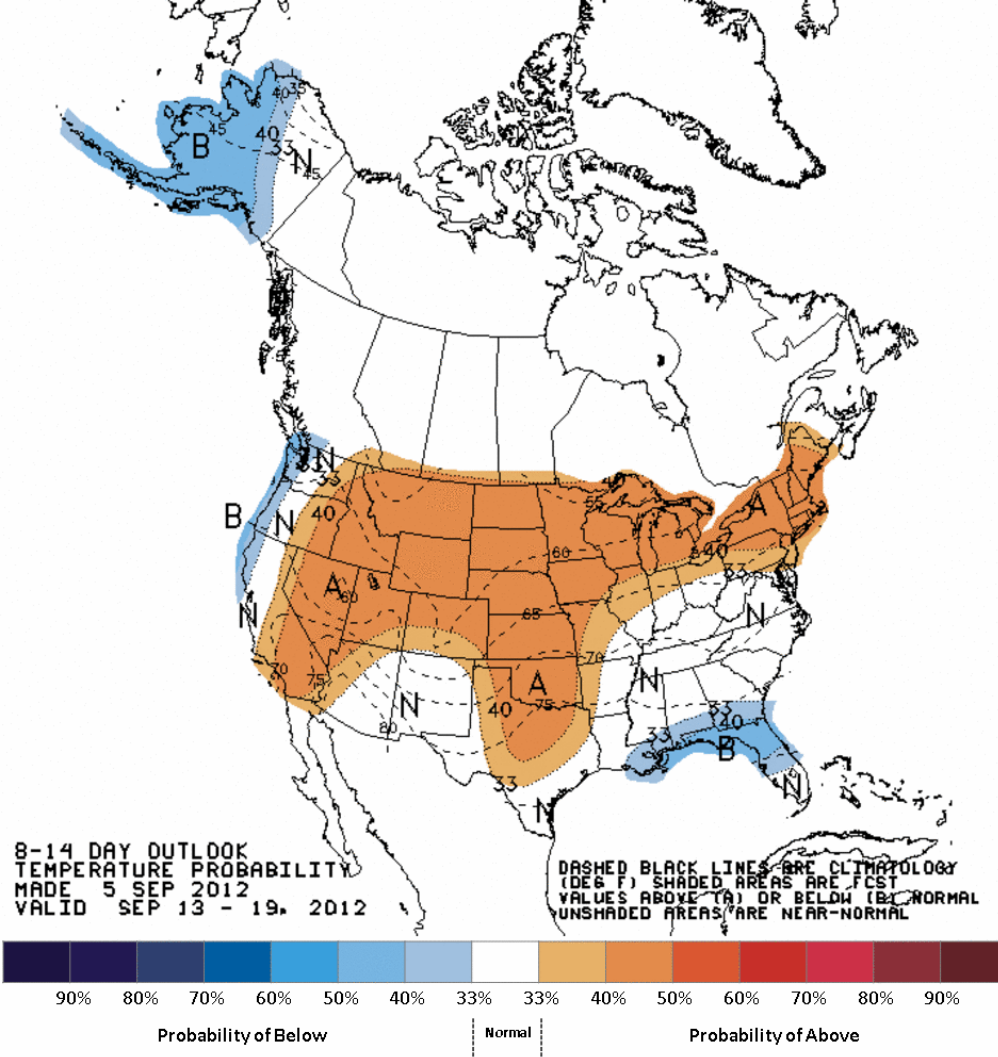
Year-to-date SPI
1/1/2012 - 9/5/2012

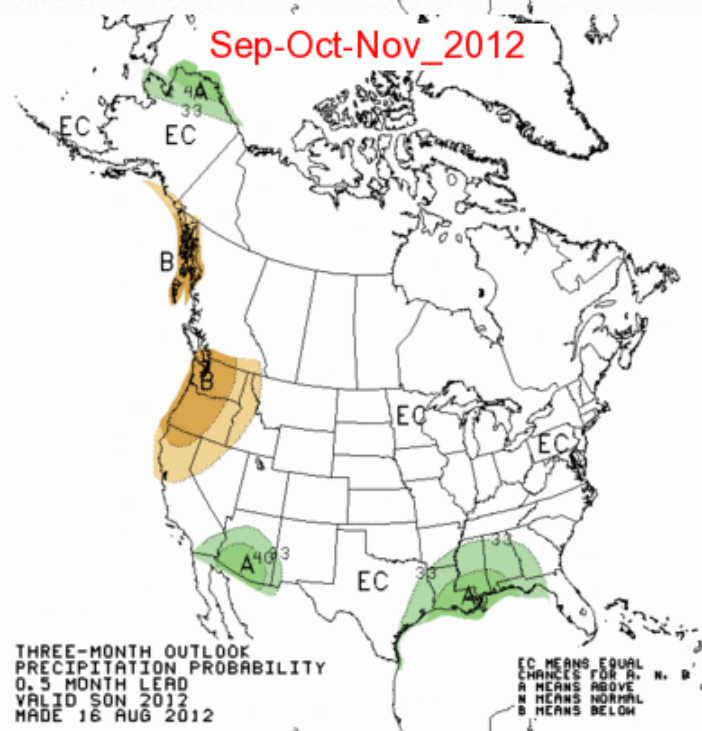
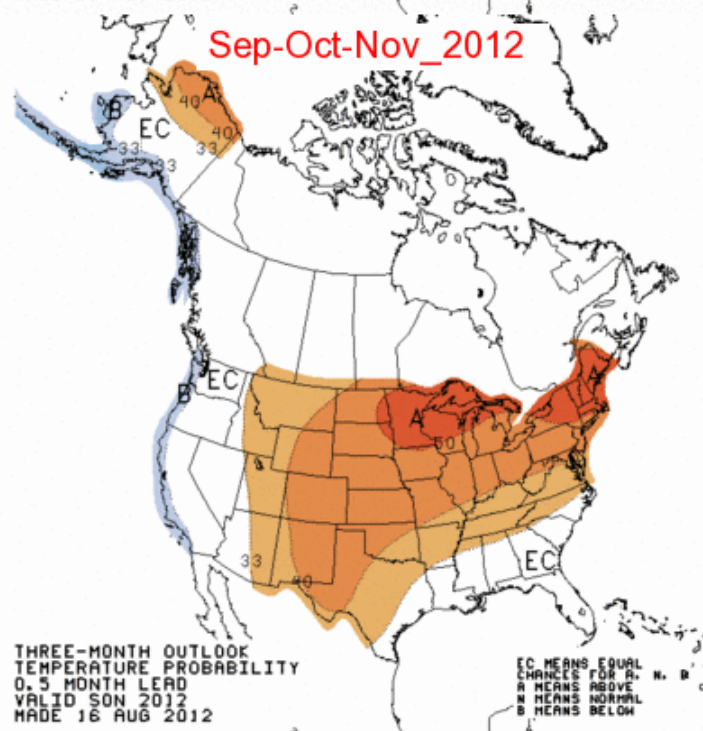
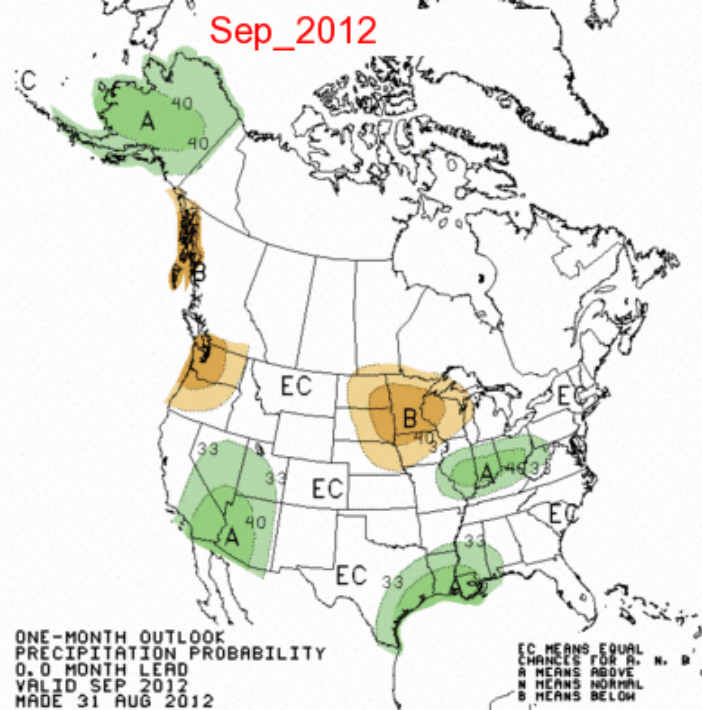
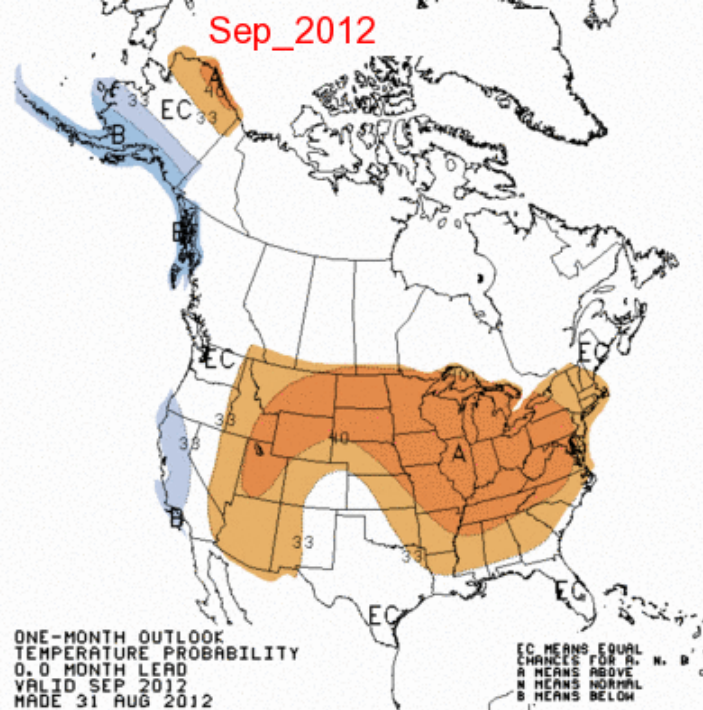


HPC 5-Day Outlook

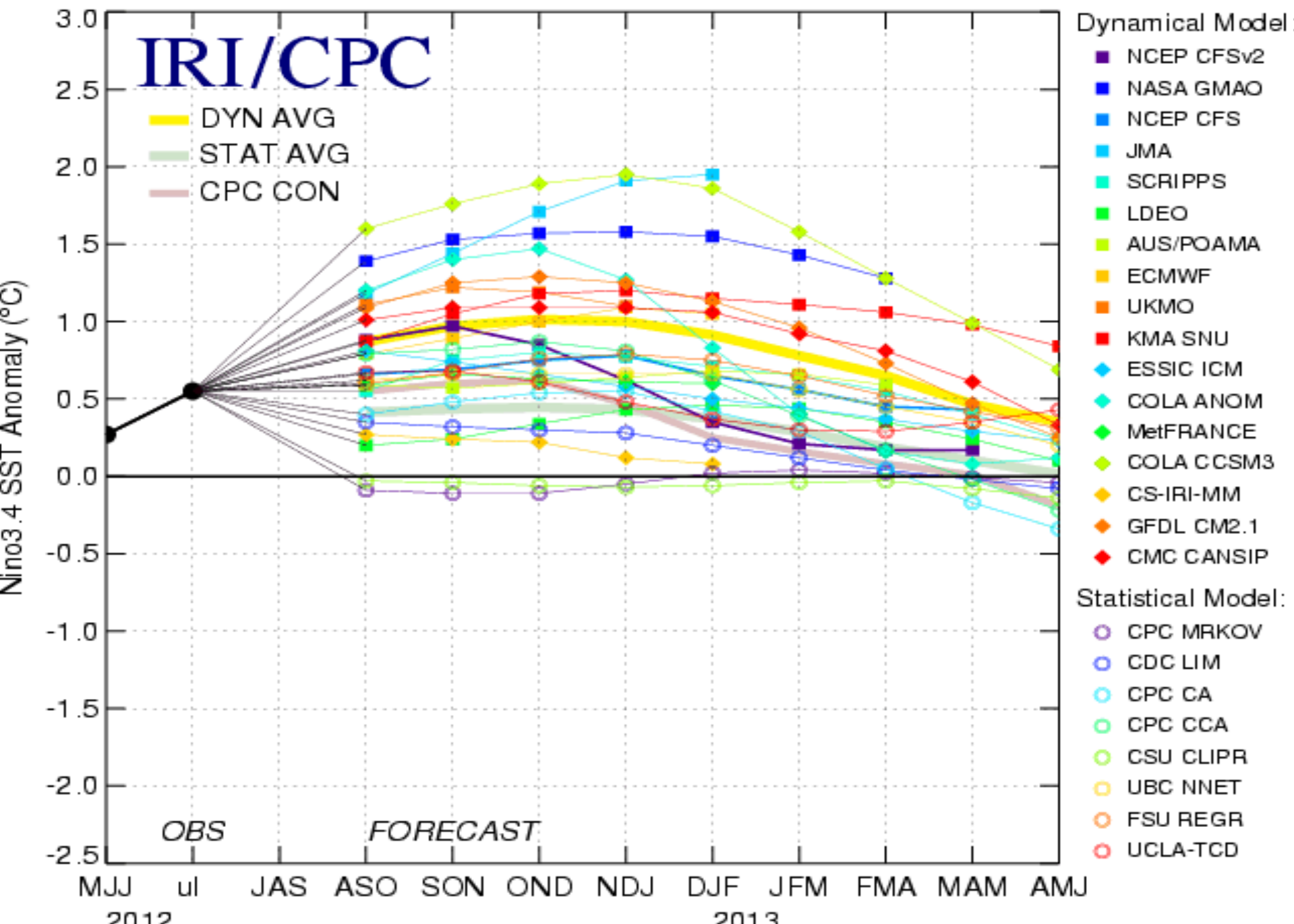


CPC 8-14-Day Outlooks: Valid September 13-19, 2012

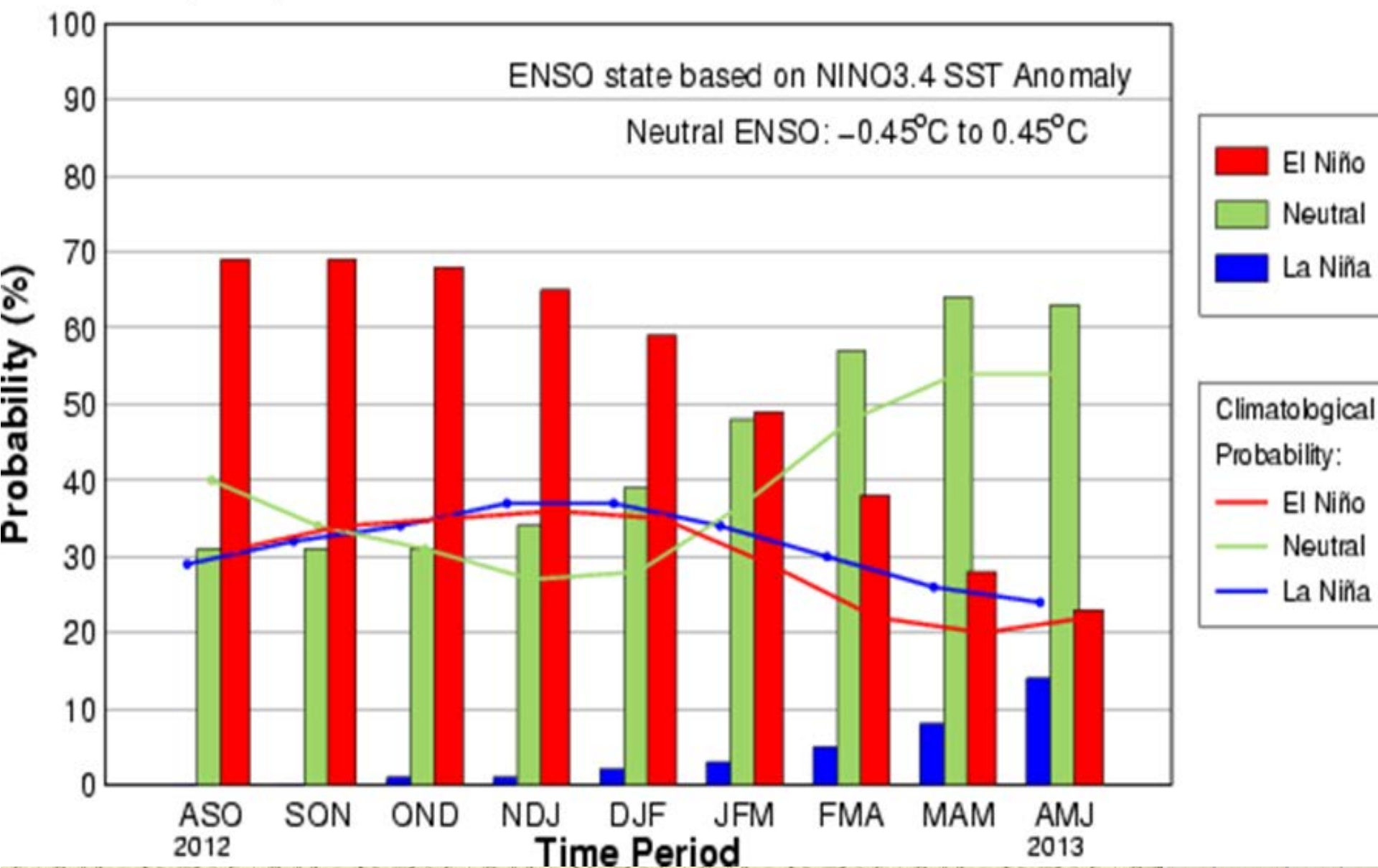




Mid-Aug 2012 Plume of Model ENSO Predictions



Early-Sep CPC/IRI Consensus Probabilistic ENSO Forecast



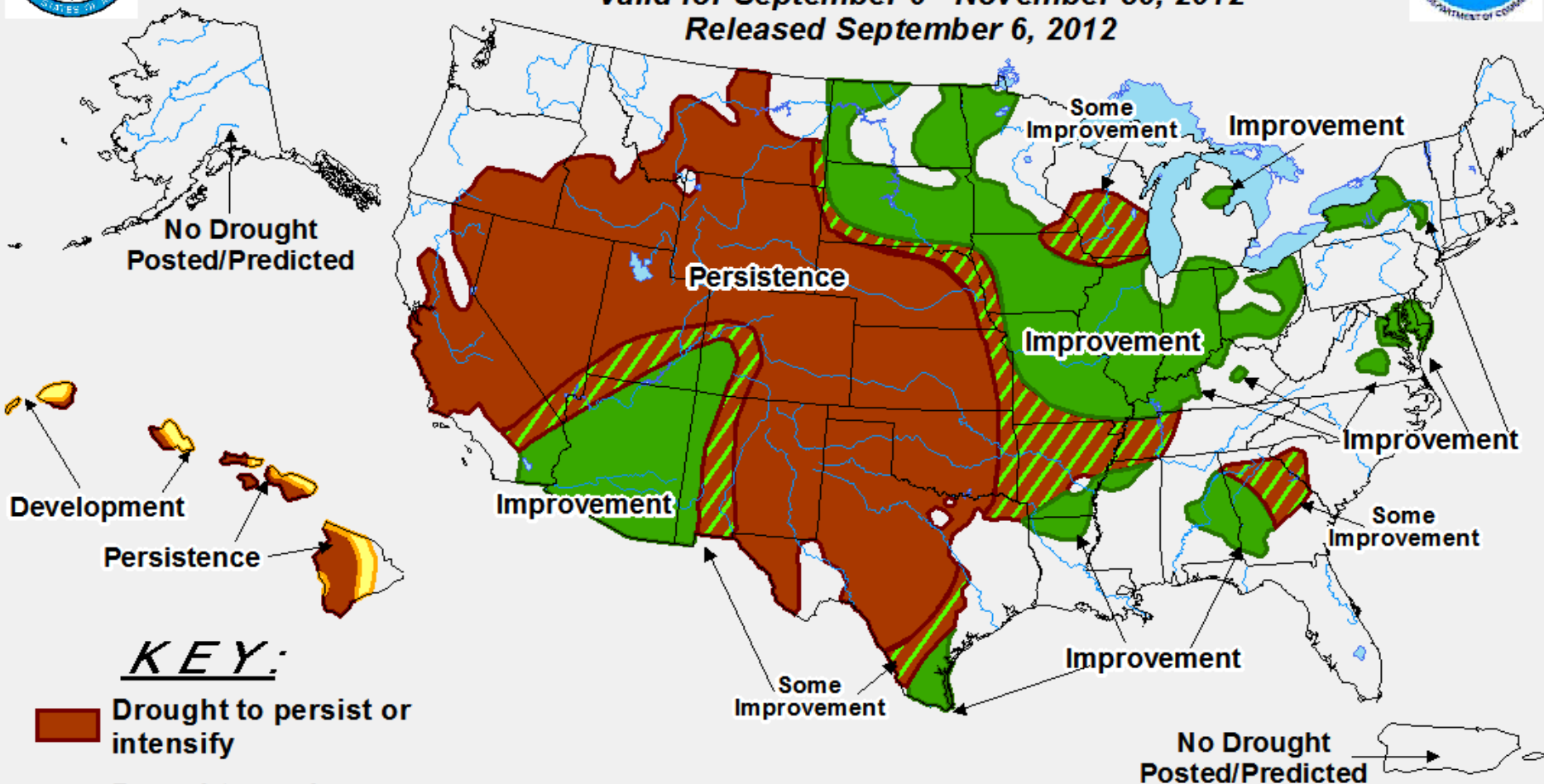


U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for September 6 - November 30, 2012

Released September 6, 2012



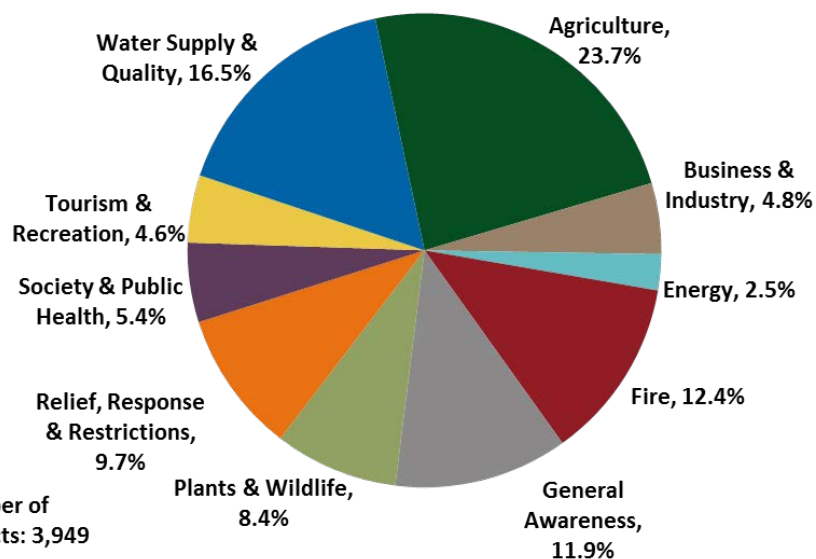
KEY:

-  Drought to persist or intensify
-  Drought ongoing, some improvement
-  Drought likely to improve, impacts ease
-  Drought development likely

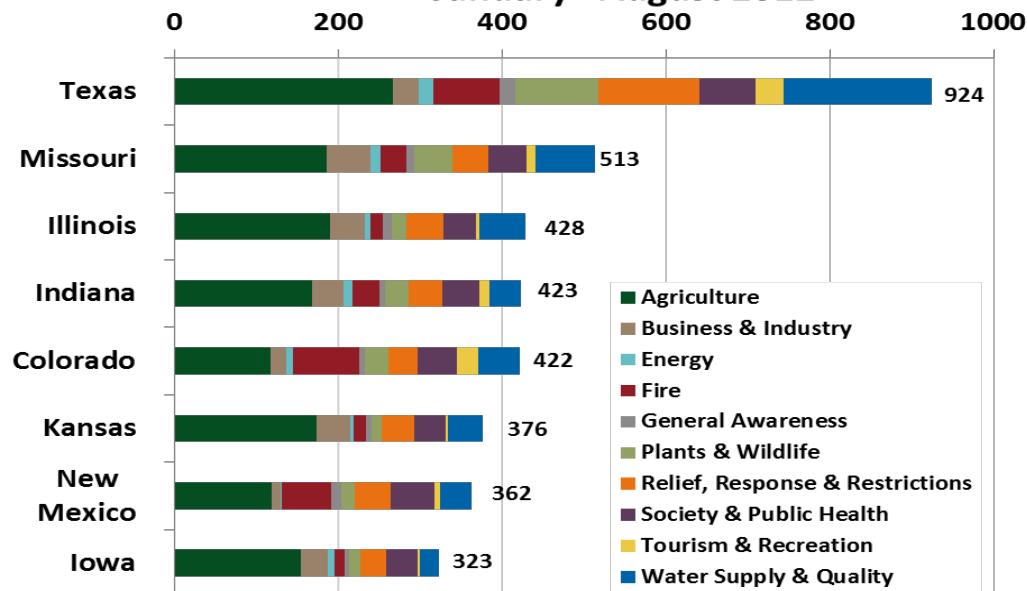
Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.

Drought Impacts by Sector and State

Reports by category in the Drought Impact Reporter, January - August 2012

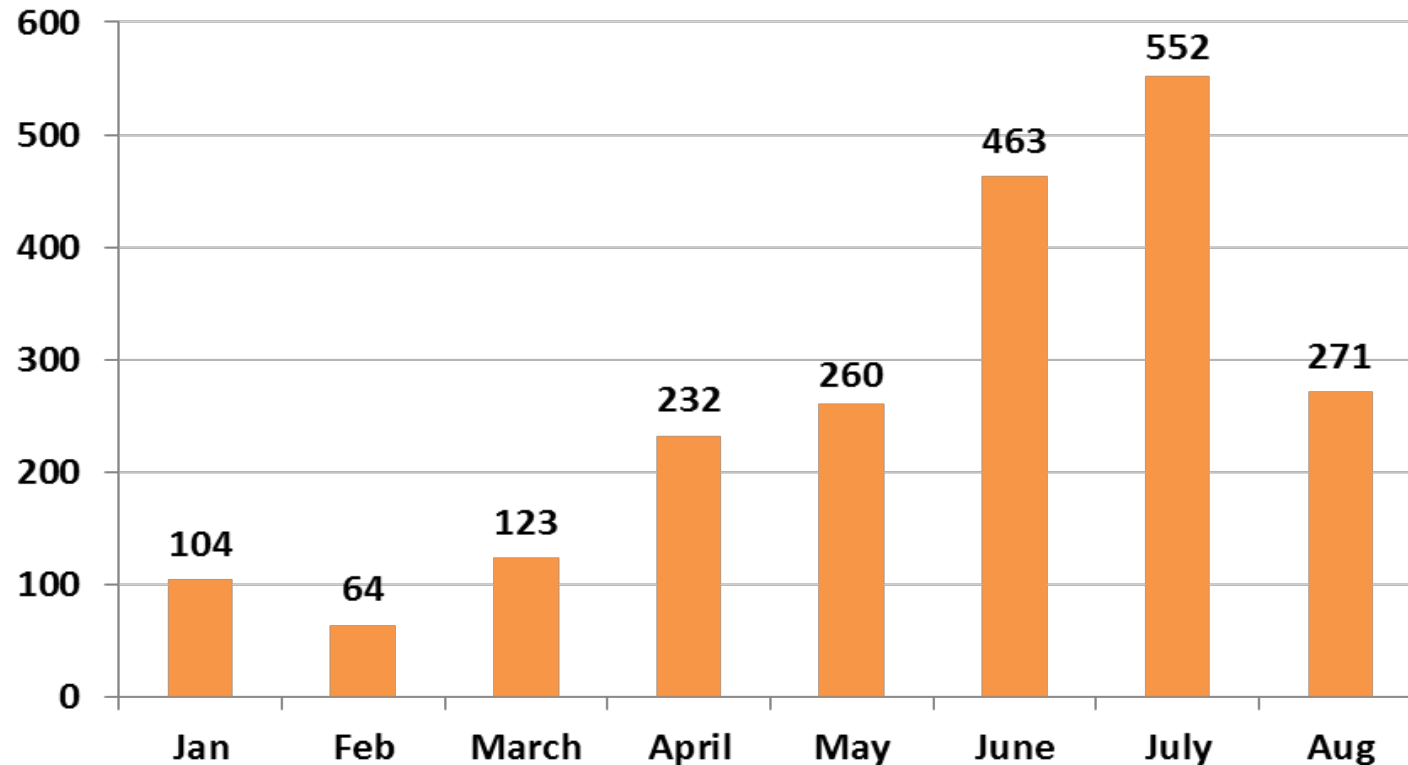


Reports by state in the Drought Impact Reporter, January - August 2012



Voluntarily Reported Drought Impacts

Volunteer-submitted reports, January - August 2012



Reports for each month of 2012 (through August) submitted by volunteers to the Drought Impact Reporter

Drought Impacts: Agriculture

U.S. Corn Areas Experiencing Drought

Reflects September 4, 2012
U.S. Drought Monitor data

Approximately 83% of the corn grown in the U.S. is within an area experiencing drought, based on historical NASS crop production data.



USDA Agricultural Weather Assessments
World Agricultural Outlook Board

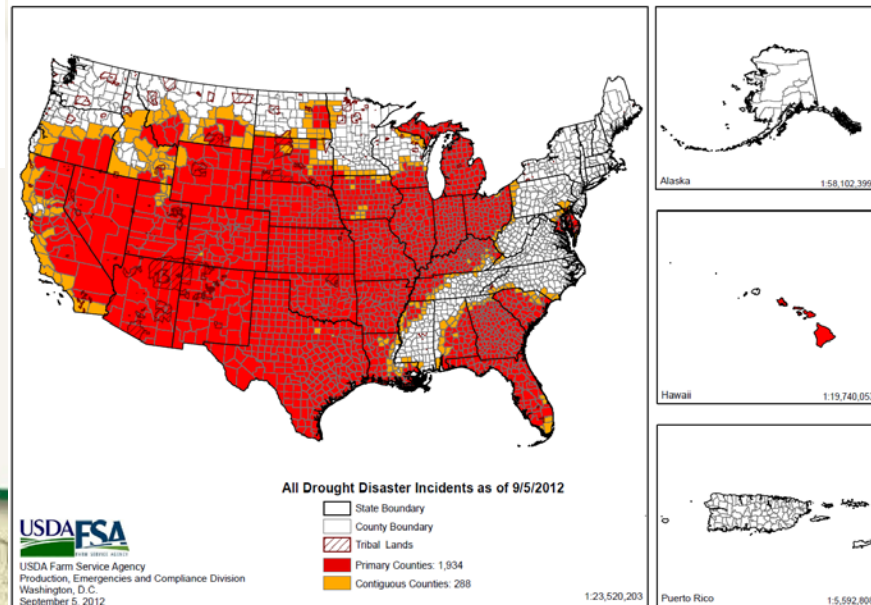
On July 11, USDA's World Agricultural Outlook Board cut the estimate for the 2012 U.S. corn crop by 1.82 billion bushels. The 12% cut left the projected U.S. corn production at 12.97 billion bushels.

On August 10, 2012 USDA/WAOB adjusted the crops down again by 2.17 billion bushels (16.7%):

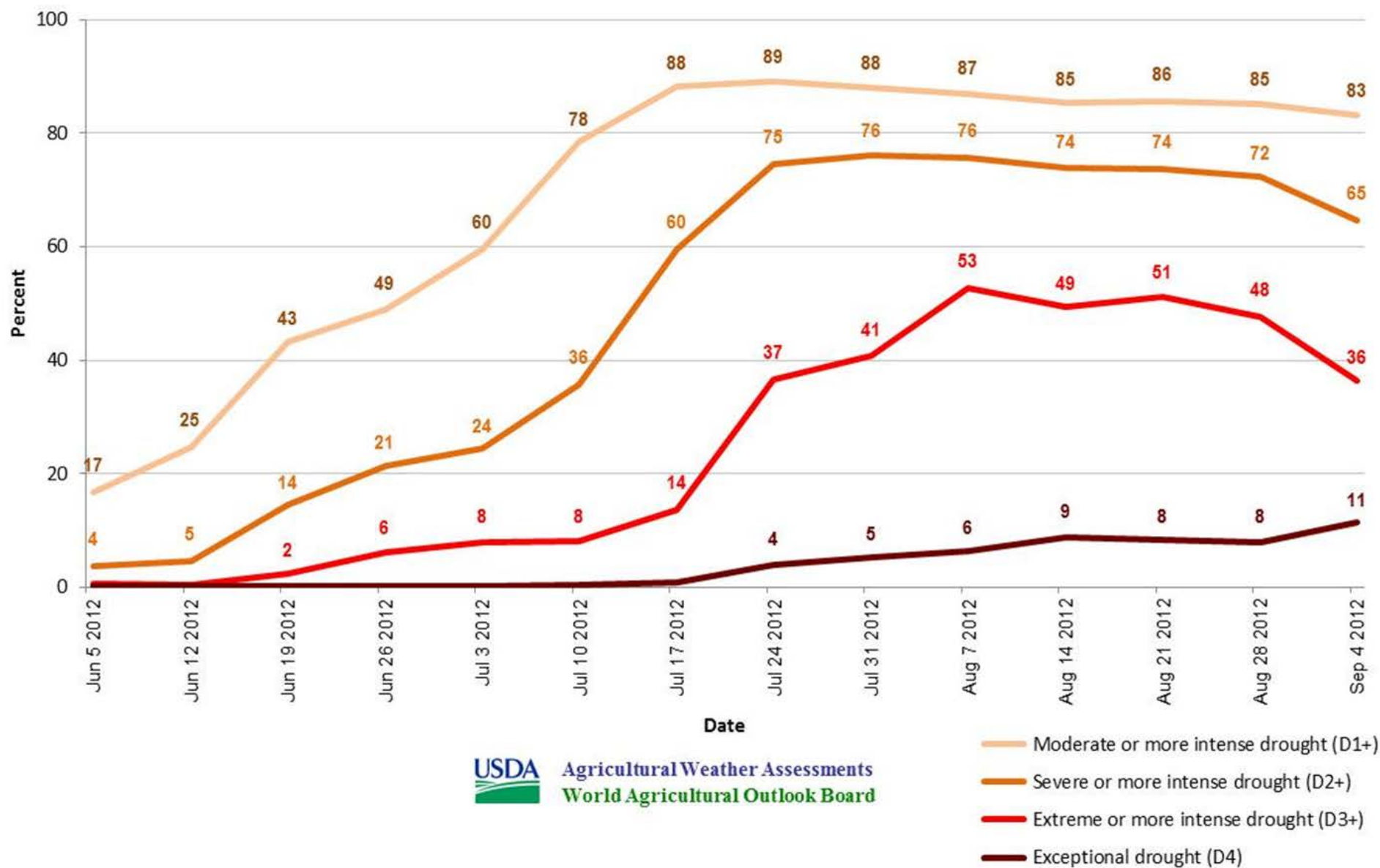
Corn: 123.4 bushels/acre (10.8 billion bushels), down from 146.0 in July and 166.0 in June.

Soybeans: 36.1 bushels/acre (83.4 million tons), down from 40.5 in July and 43.9 in June.

2012 Secretarial Drought Designations - All Drought



United States Corn Areas Located in Drought



Further Information

Today's Recorded Presentation:

- <http://mrcc.isws.illinois.edu/webinars.htm>
<http://www.hprcc.unl.edu>
- NOAA's National Climatic Data Center: www.ncdc.noaa.gov
 - Monthly climate reports (U.S. & Global): www.ncdc.noaa.gov/sotc/
- NOAA's Climate Prediction Center: www.cpc.ncep.noaa.gov
- Climate Portal: www.climate.gov
- U.S. Drought Monitor: www.droughtmonitor.unl.edu
- National Drought Mitigation Center: www.drought.unl.edu
- Drought Impact Reporter: www.droughtreporter.unl.edu
- NIDIS Drought Portal: www.drought.gov
- State climatologists
 - <http://www.stateclimate.org>
- Regional climate centers
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Contact Information:

Mark Svoboda
msvoboda2@unl.edu
402-472-8238

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