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

Brian Fuchs Mark Svoboda

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



NOAA-NWS CR Webinar Series, July 19, 2012



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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, NOAAs Climate Prediction Center, Iowa State University, National Drought Mitigation Center

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

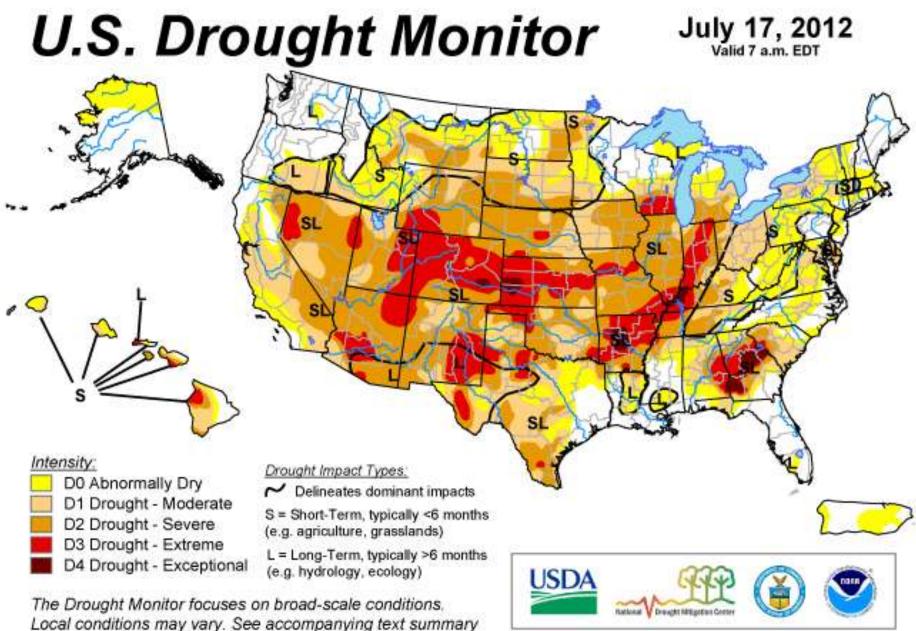
Agenda

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



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for forecast statements.

http://droughtmonitor.unl.edu/

Released Thursday, July 19, 2012 Author: Richard Heim/Liz Love-Brotak, NOAA/NESDIS/NCDC

Drought Monitor	Forecasts	What's New	Current Conditions	About Us	Archive	Contact Us	Lin

Drought Condition (Percent Area): United States

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
One Year Ago	07/12/11	66.75	33.25	24.00	19.79	15.60	9.99
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	04/17/12	50.23	49.77	30.94	16.44	5.50	1.58
Last Week	07/10/12	28.30	71.70	50.92	31.11	9.71	0.62
Current	07/17/12	27.62	72.38	53.17	35.32	11.32	0.83

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

Conditions for the Contiguous U.S.

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
One Year Ago	07/12/11	64.33	35.67	28.70	23.69	18.67	11.96
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	04/17/12	40.55	59.45	36.94	19.60	6.57	1.89
Last Week	07/10/12	20.02	79.98	60.84	37.19	11.61	0.74
Current	07/17/12	19.25	80.75	63.54	42.23	13.53	0.99

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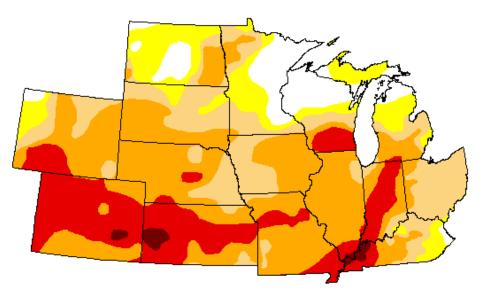
U.S. Drought Monitor



Central Region

Drought Conditions (Percent Area)

	None	D0 - D4	D1 - D4	D2 - D4	D3 - D4	D4
Current	8.75	91.25	79.36	58.39	20.06	1.10
Last Week (7/10/2012)	11.36	88.64	73.71	44.42	14.03	0.72
3 Months Ago (4/17/2012)	51.63	48.37	20.39	5.92	0.00	0.00
1 Year Ago (7/12/2011)	88.99	11.01	7.39	5.62	3.14	0.93



<u>Intensity:</u>

- DD Abnormally Dry D1 - Drought Moderate D2 - Drought Severe
- D3 Drought Extreme

📕 D4 - Drought Exceptional

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

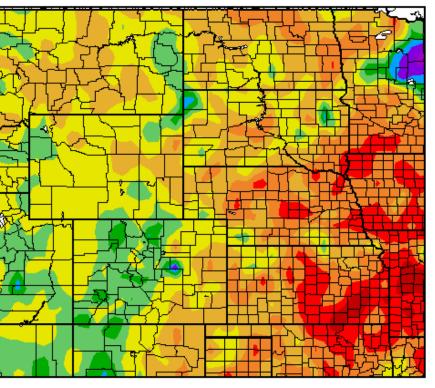
http://droughtmonitor.unl.edu



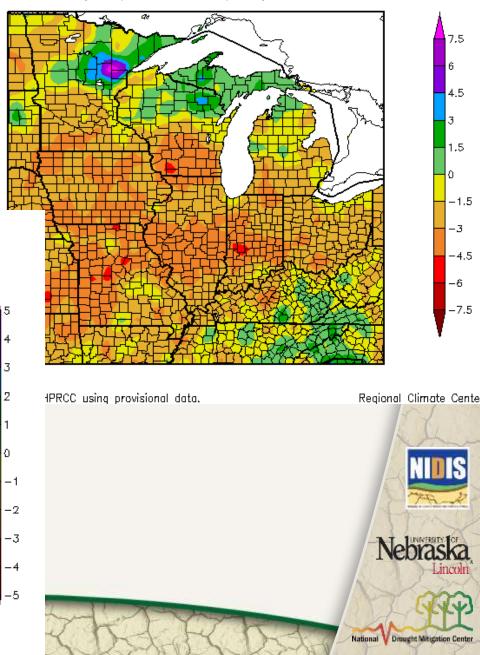
Released Thursday, July 19, 2012 Richard Heim, National Climatic Data Center, NOAA 30 Day ACIS Departure from Normal

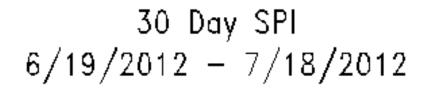


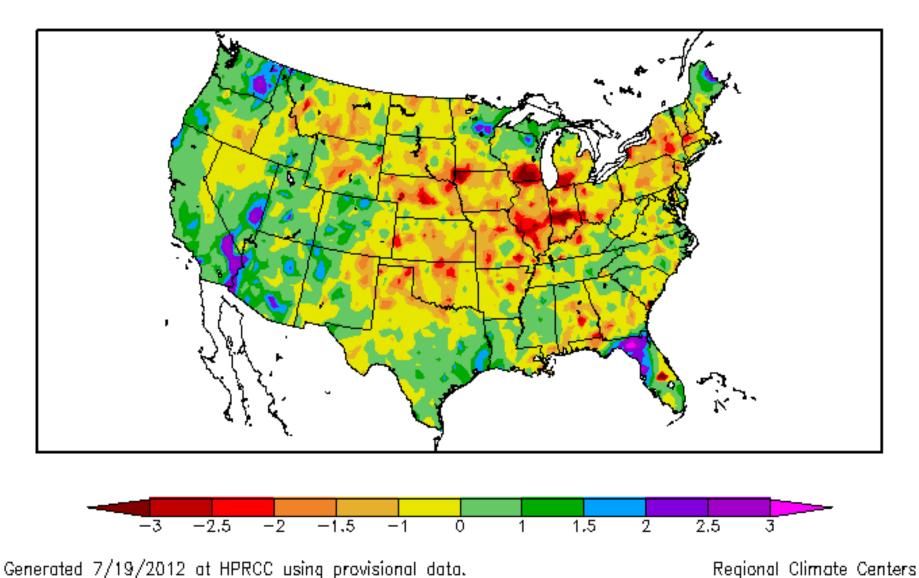
Departure from Normal Precipitation (in) 6/19/2012 - 7/18/2012

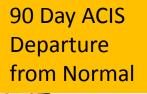


Departure from Normal Precipitation (in) 6/19/2012 - 7/18/2012



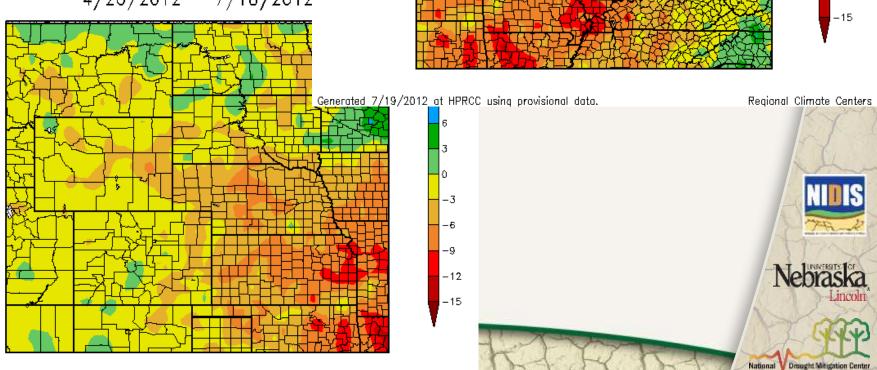








Departure from Normal Precipitat 4/20/2012 - 7/18/2012



Departure from Normal Precipitation (in)

4/20/2012 - 7/18/2012

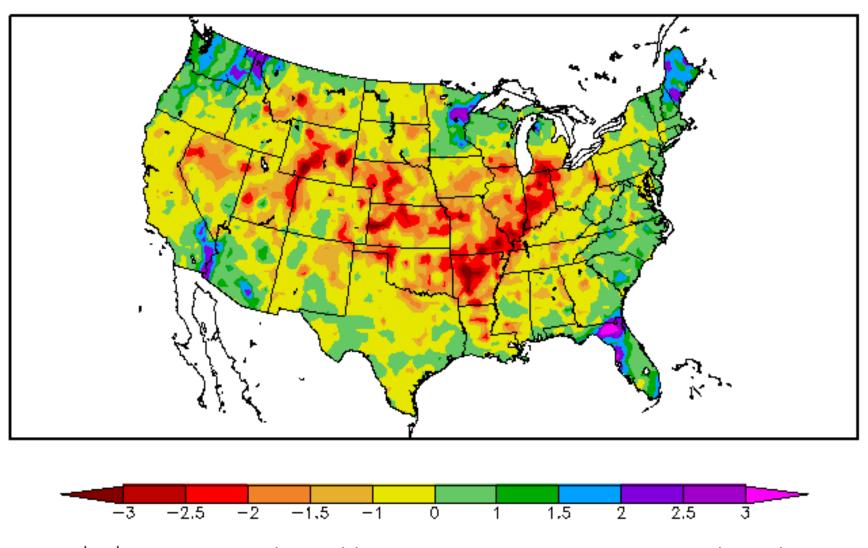
15 12 9 6 3 0 -3 -5 -6 -9

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Generated 7/19/2012 at HPRCC using provisional data.

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90 Day SPI 4/20/2012 - 7/18/2012

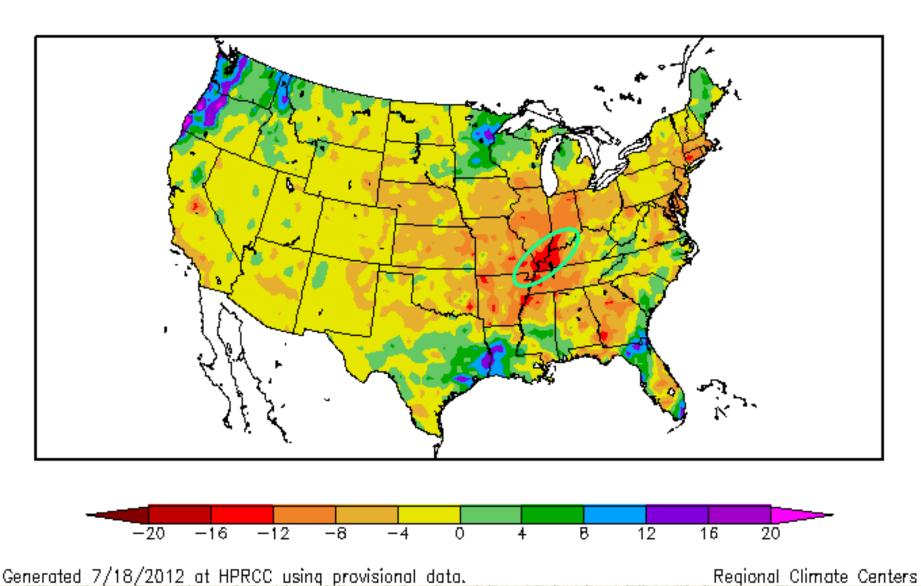


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Year to Date ACIS Departure from Normal

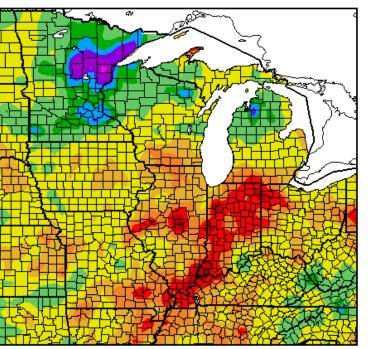
Departure from Normal Precipitation (in) 1/1/2012 - 7/17/2012

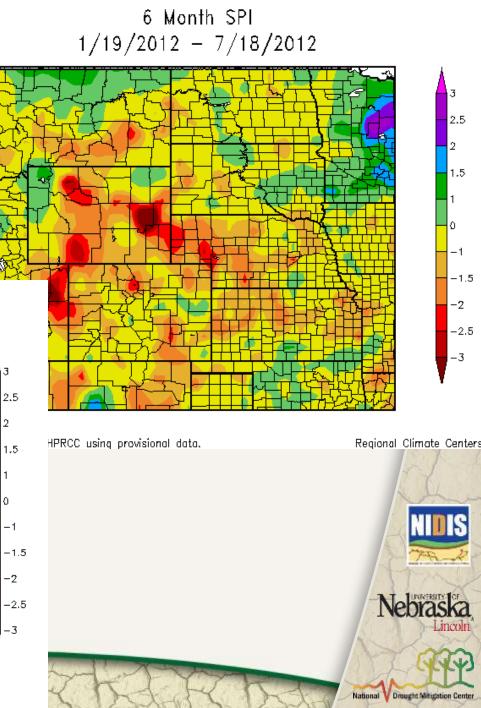




6-Month SPI

6 Month SPI 1/19/2012 - 7/18/2012

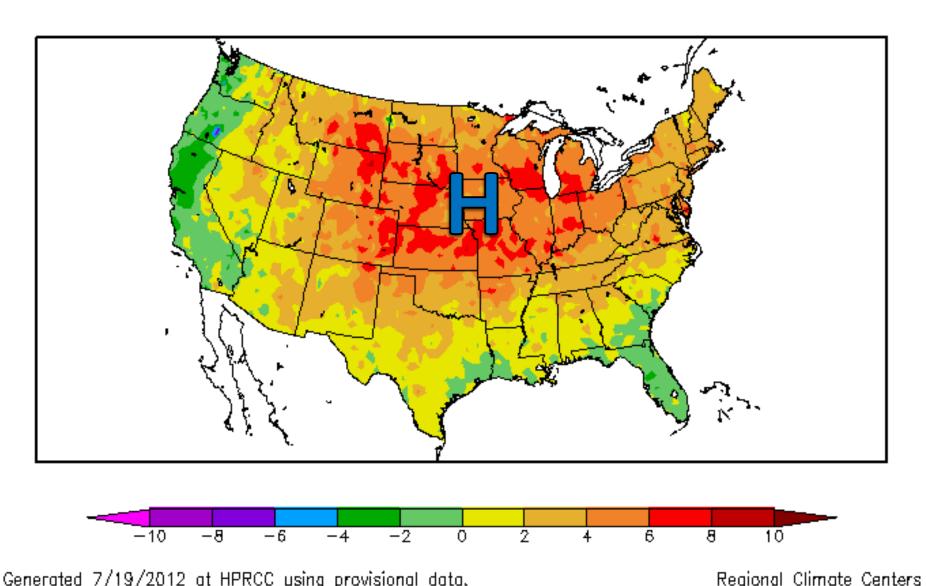




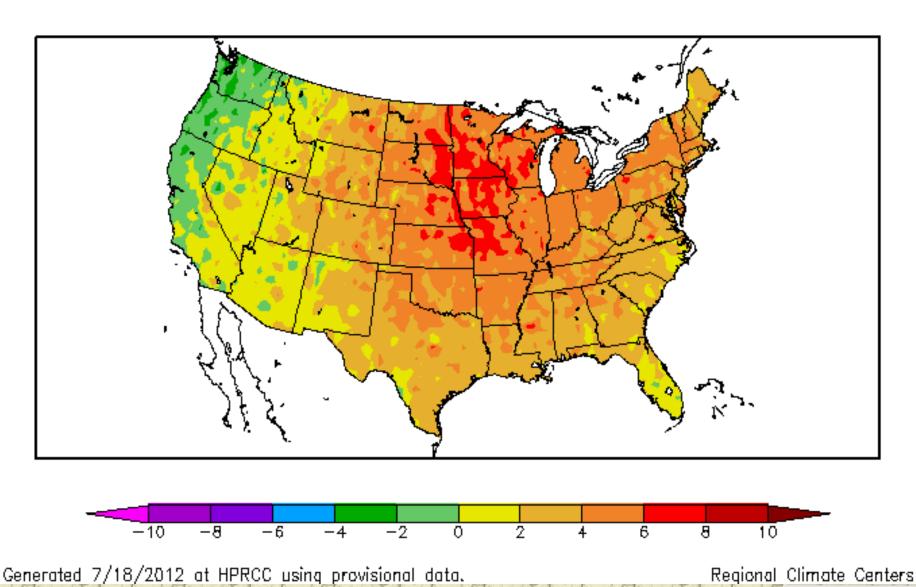
ed 7/19/2012 at HPRCC using provisional data.

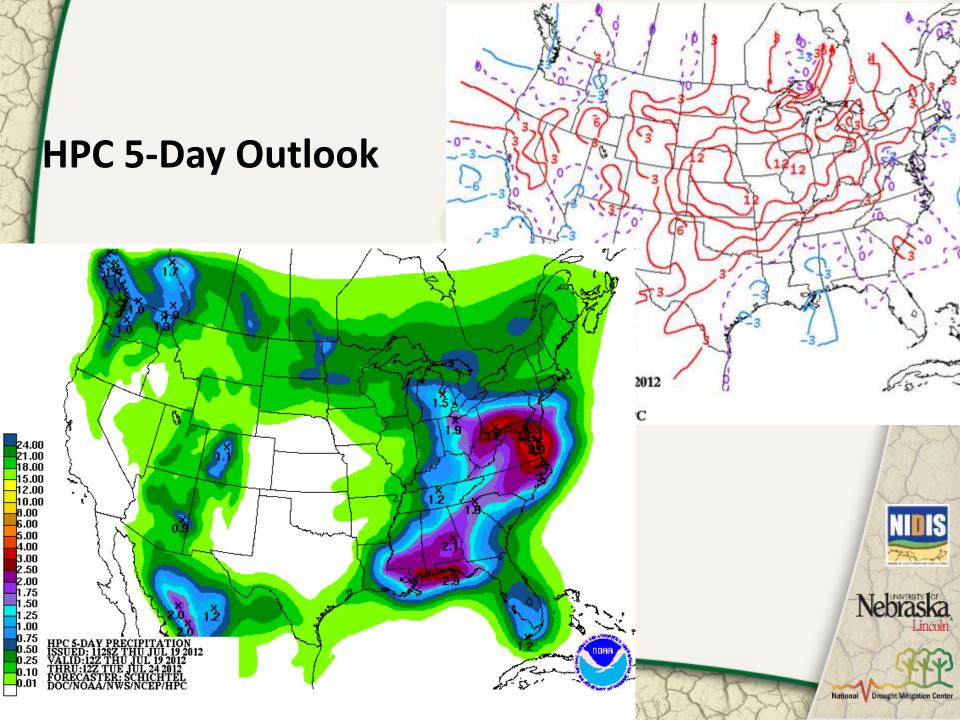
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Departure from Normal Temperature (F) 6/19/2012 - 7/18/2012

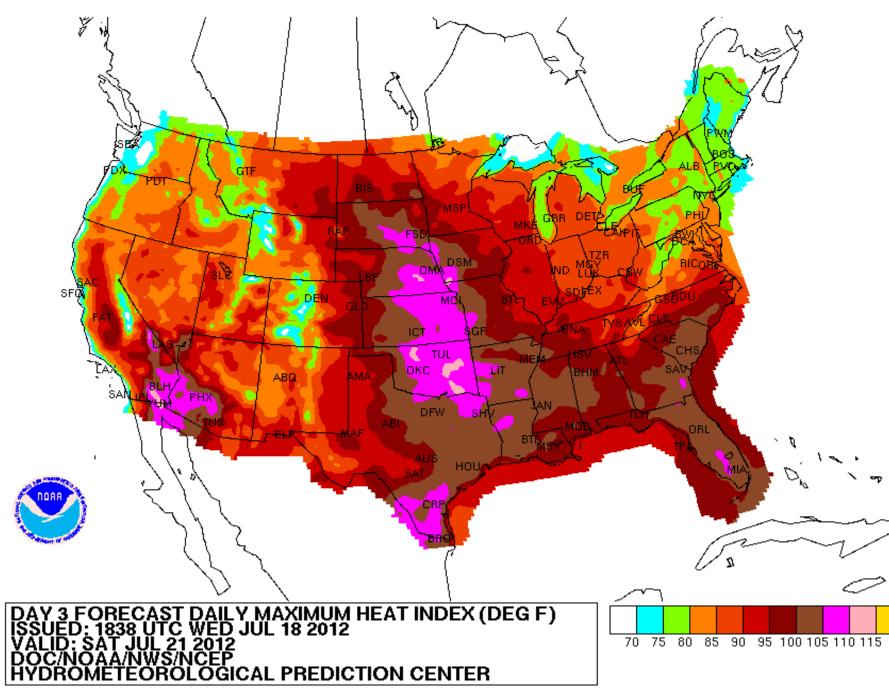


Departure from Normal Temperature (F) 1/1/2012 - 7/17/2012

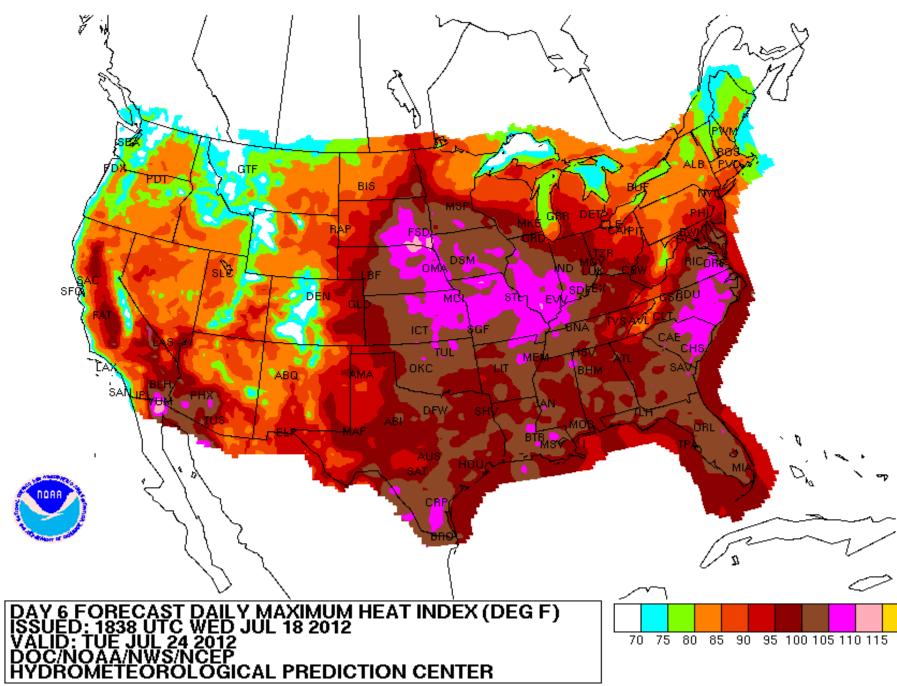


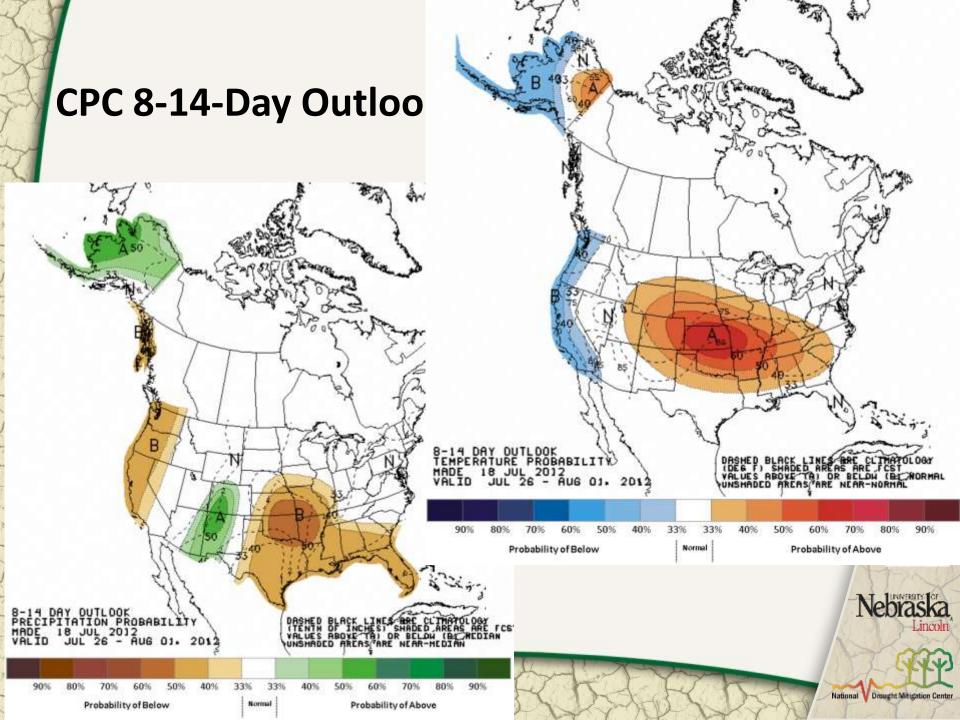


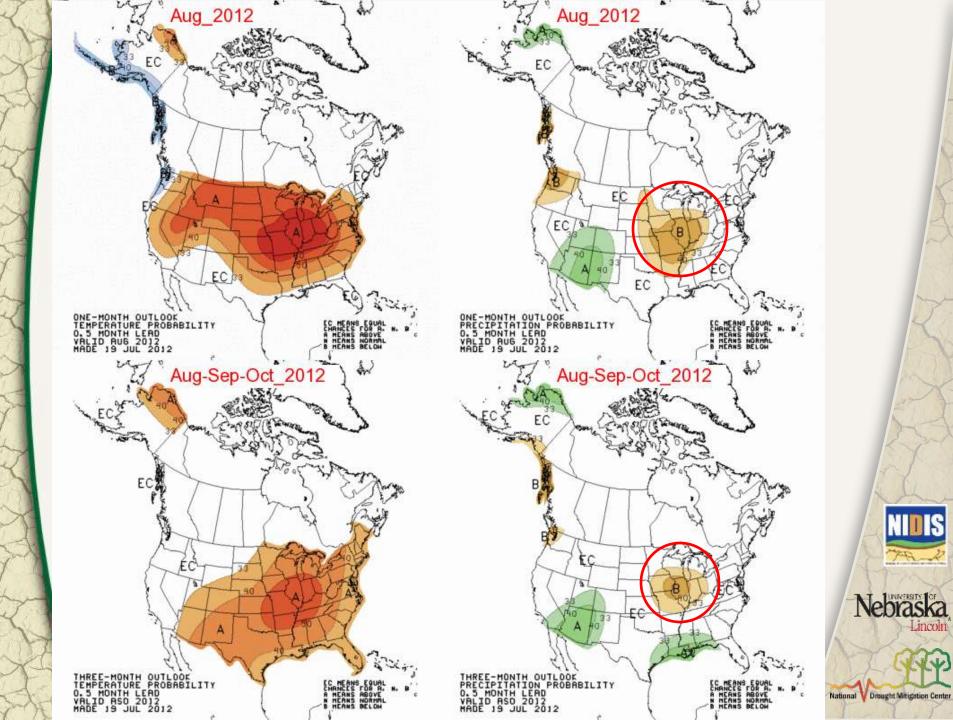
CLICK ON A CITY CODE FOR A TABLE OF FORECAST VALUES

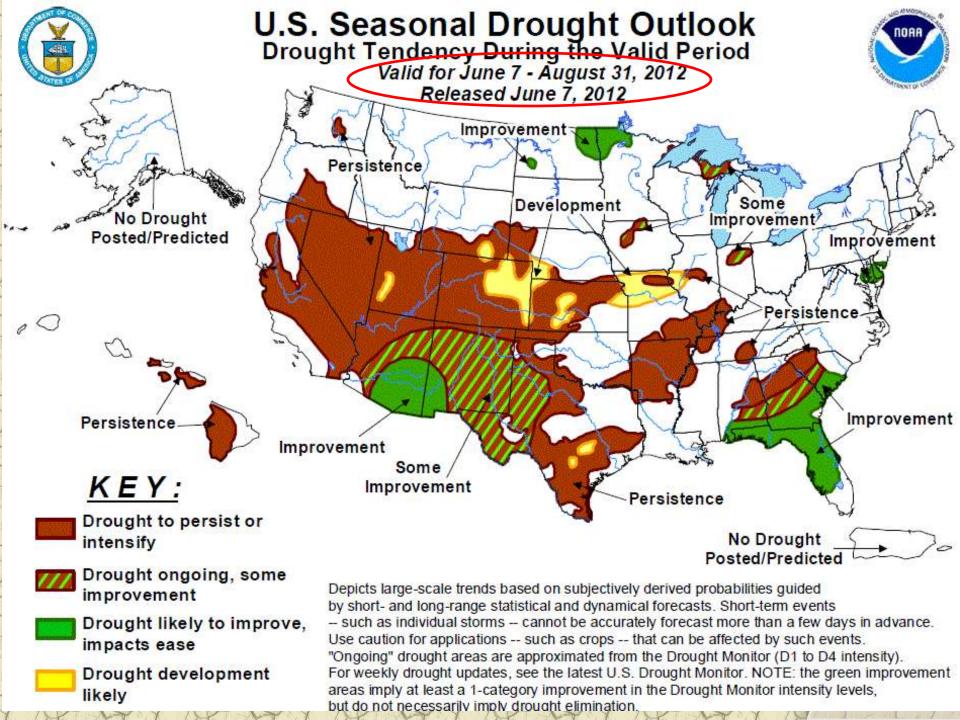


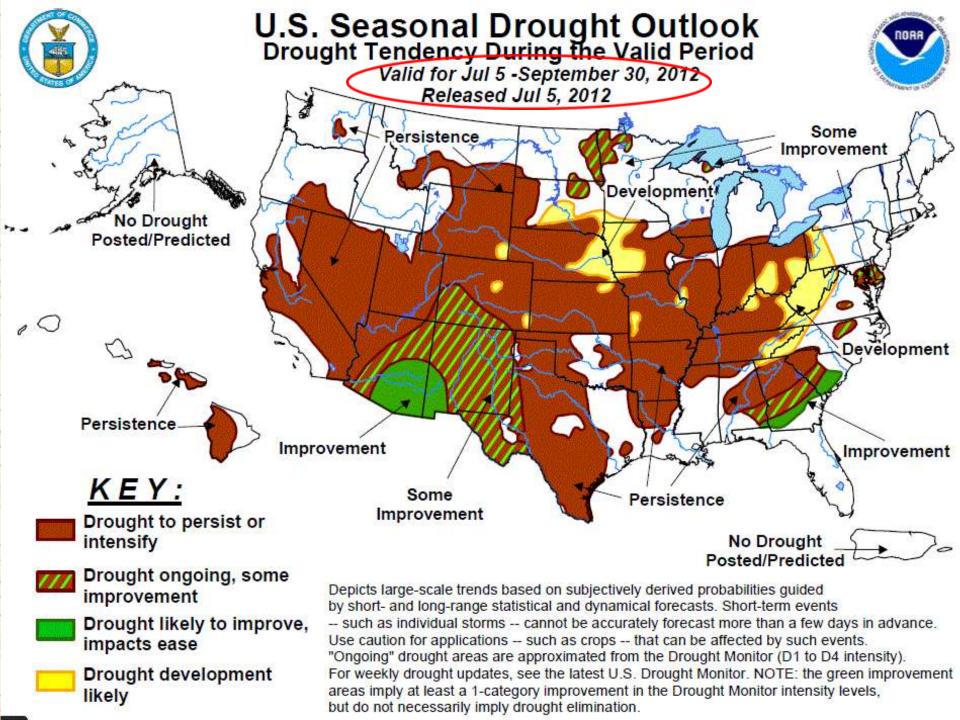
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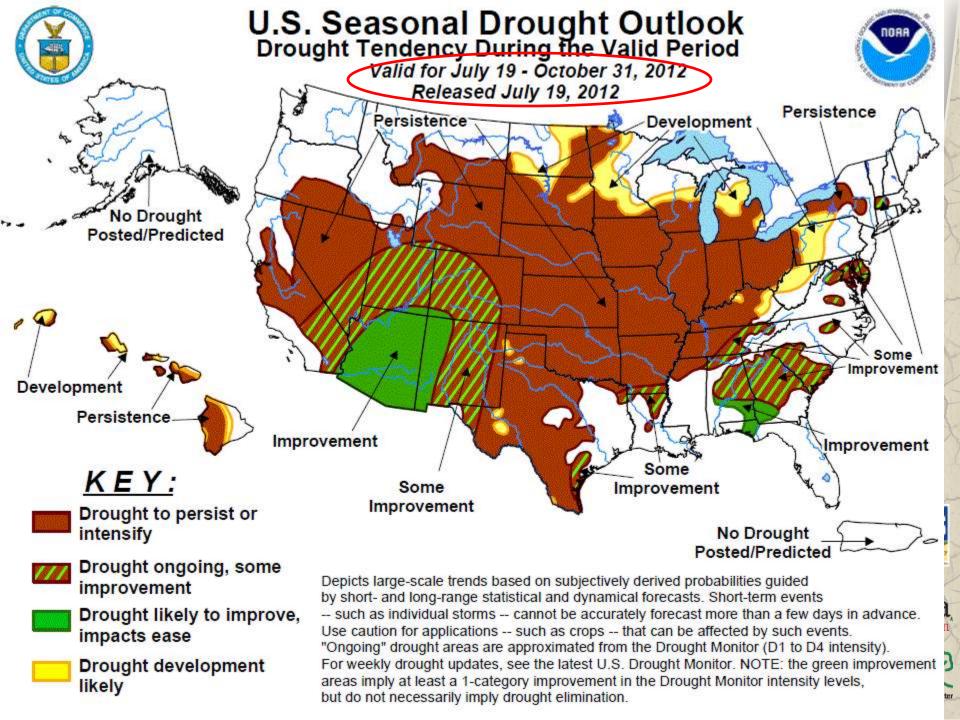












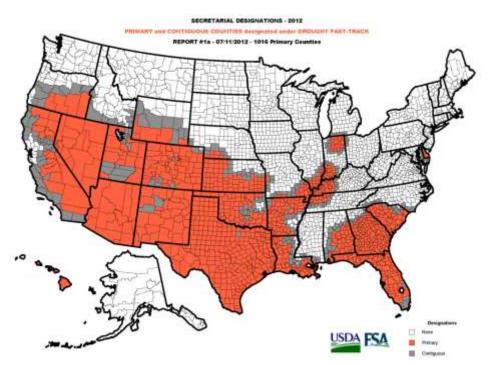
Drought Impacts: Corn, Other Ag

U.S. Corn Areas Experiencing Drought

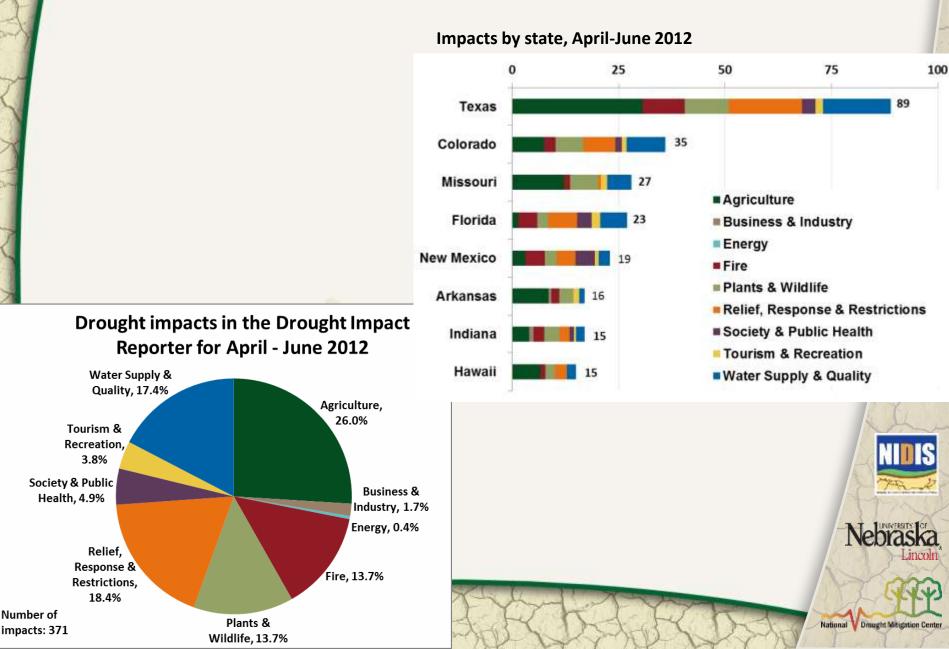


On July 11, USDA's World Agricultural Outlook Board cut the estimate for the 2012 U.S. corn crop by 1.82 billion bushels to "reflect expected impacts of persistent and extreme June and early-July dryness and heat across the central and eastern Corn Belt." The 12% cut, which left the projected U.S. corn production at 12.97 billion bushels, is a direct result of the nation's worst drought in a generation—since 1988. – Brad Rippey, USDA Meteorologist, Office of the Chief Economist On July 11, US Secretary of Agriculture Tom Vilsack announced a streamlined disaster declaration process:

- 40 percent faster processing
- Lower interest rate
- Lower CRP payment
- Tied to D2 Severe Drought
- Doesn't have to be initiated by a governor or tribal council



Drought Impacts by Sector and State



Drought Impacts Timeline (Selected)

Mid-July 2012: Concern about reduced crop yields, food prices, as USDA lowers yield forecasts and streamlines the disaster declaration process. Drought spreading across the Corn Belt.

Mid-July 2012: City of Warrenton MO declares a water emergency and imposes mandatory conservation due to drought. Other communities face similar circumstances.

July 2012: Many reports of irrigation water denied or curtailed, including 1,000 surface water users across the state of Nebraska.

Early July 2012: Insect proliferation and damage reported in Missouri, Arkansas

Late June 2012: Waldo Canyon Fire in Colorado was the most destructive in the state's history, with 346 homes burned.

June-July 2012: Many communities across the central U.S. banned fireworks displays.

May 2012: NM Gov. Susana Martinez issued a formal drought declaration to make it easier for communities and agricultural producers to seek assistance. Whitewater-Baldy fire in Southwest New Mexico burned 297,845 acres and was the largest in the state's history, expected to smolder until monsoons.

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NDS

Voluntarily Reported Drought Impacts





Reports for each month of 2012 (including the first half of July) submitted by volunteers to the Drought Impact Reporter Severe crop (corn and soybeans and pasture) stress in Marion and Jefferson counties, Illinois. Some corn at tassel stage. From Martin Culik, Bloomington, Illinois, on June 29, 2012

"With the record-setting high temps. and several days of 108 to 113 degree temps, irrigation water shutting off and the dry hot wind, conditions of pasture have turned from bad to worse. Ranchers are now calling in with reports of finding dead antelope fawns in the shade of cedar posts, very sad situation. Cattle are starting to go to town." From a farmer/rancher in Eads, Colorado, on June 28, 2012



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Further Information

Today's Recorded Presentation:

- <u>http://mrcc.isws.illinois.edu/webinars.htm</u> <u>http://www.hprcc.unl.edu</u>
- NOAA's National Climatic Data Center: <u>www.ncdc.noaa.gov</u>
 - Monthly climate reports (U.S. & Global): <u>www.ncdc.noaa.gov/sotc/</u>

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- NOAA's Climate Prediction Center: <u>www.cpc.ncep.noaa.gov</u>
- Climate Portal: <u>www.climate.gov</u>
- U.S. Drought Monitor: <u>www.droughtmonitor.unl.edu</u>
- National Drought Mitigation Center: <u>www.drought.unl.edu</u>
- Drought Impact Reporter: <u>www.droughtreporter.unl.edu</u>
- NIDIS Drought Portal: <u>www.drought.gov</u>
- State climatologists
 - <u>http://www.stateclimate.org</u>
- Regional climate centers
 - <u>http://mrcc.isws.illinois.edu</u>
 - <u>http://www.hprcc.unl.edu</u>

Contact Information:

Brian Fuchs bfuchs2@unl.edu 402-472-6775

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

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

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