Drought Task Force Summary
30 July 2012

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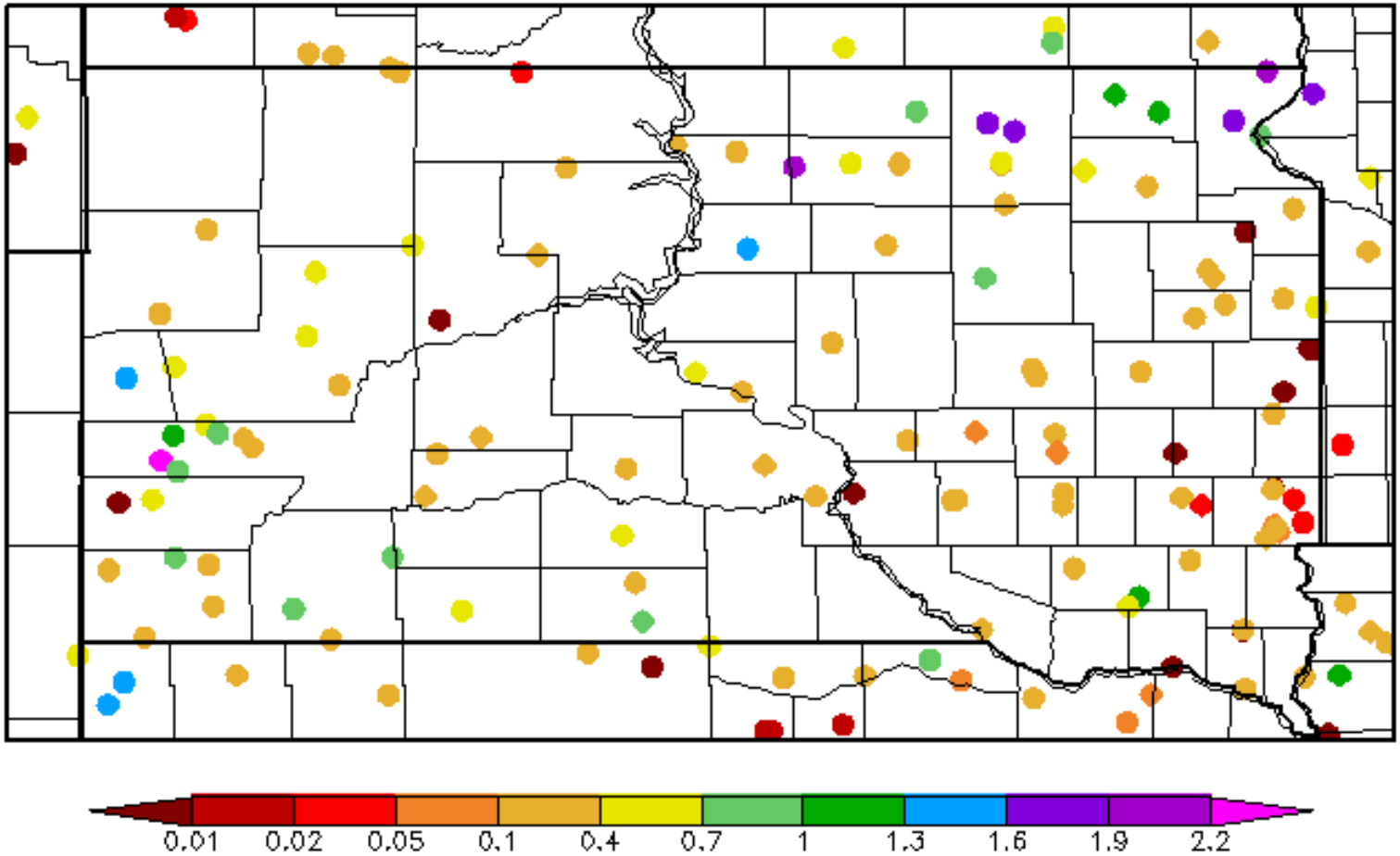
South Dakota State Climatologist
SDSU Extension/AES/ABE

Drought Issues Summary

- Increased to D3 parts of the state
  - Fires continue
  - Corn most damage done
  - Beans showing stress
  - Water quantity/quality issues
  - Cattle self-offs
- Some isolated areas getting help – generally no major improvement

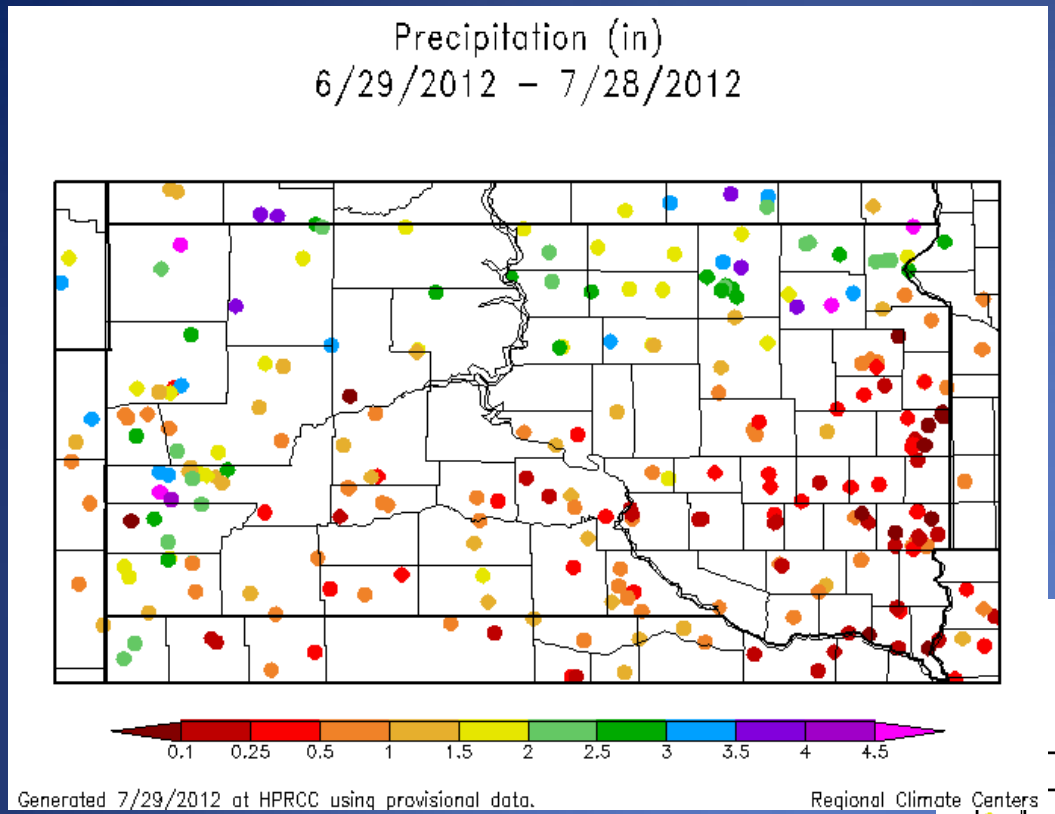
SOUTH DAKOTA Climate and Weather

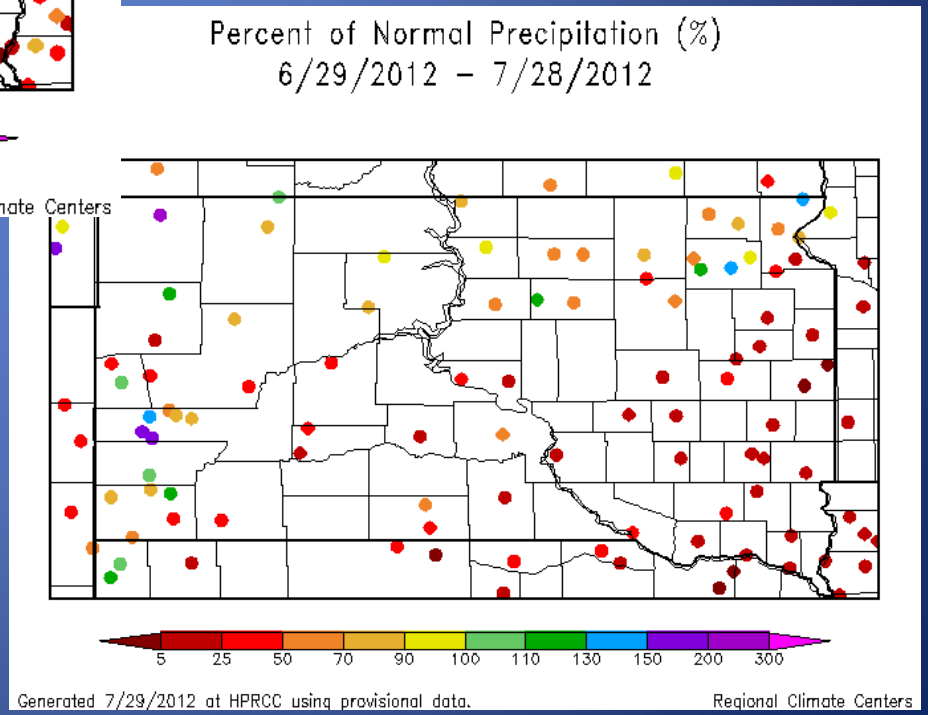
Precipitation (in)
7/22/2012 – 7/28/2012



Generated 7/29/2012 at HPRCC using provisional data.

Regional Climate Centers





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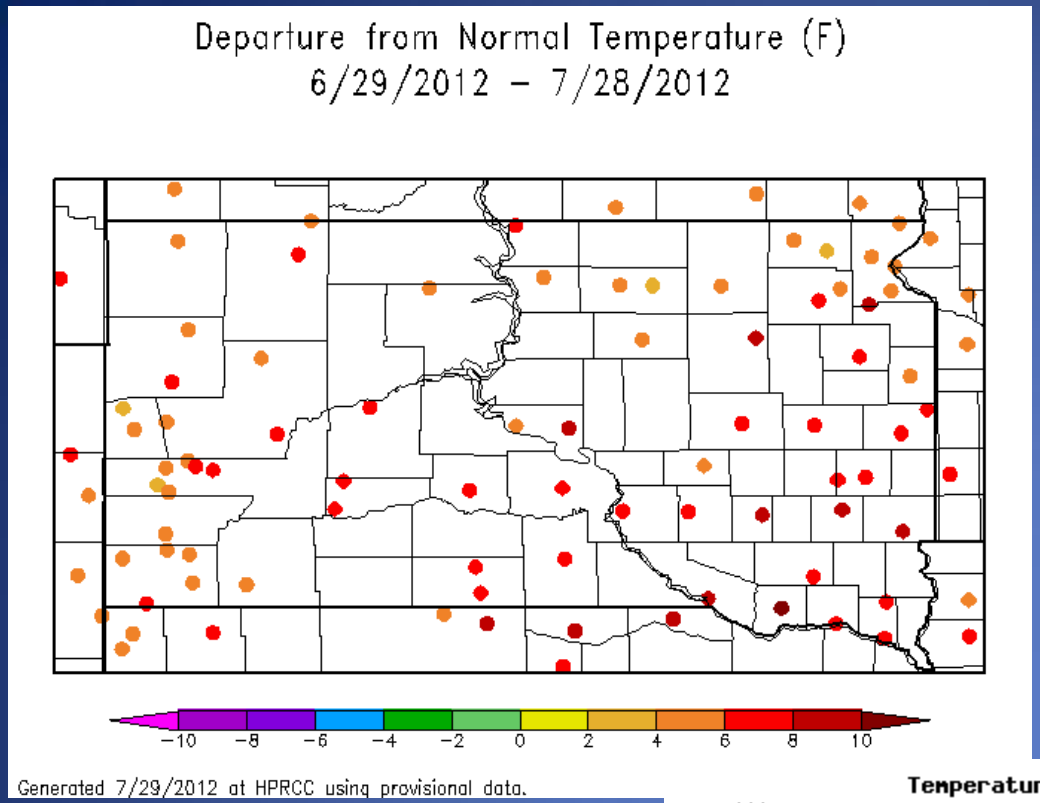
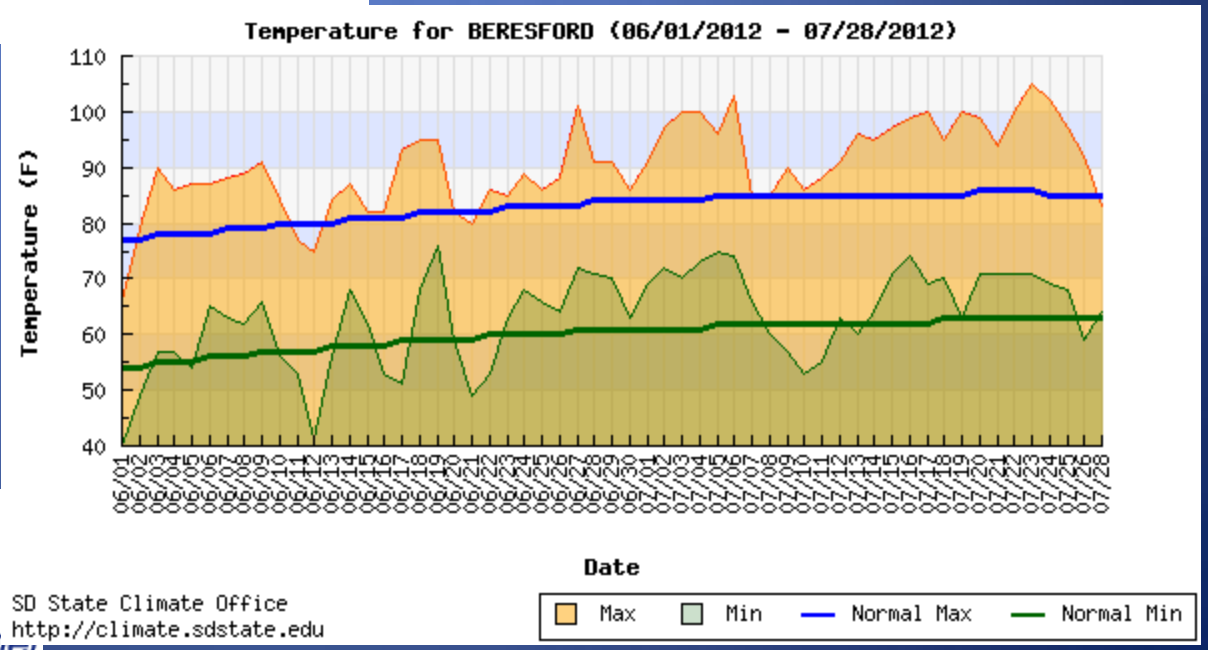
http://www.hprcc.unl.edu/maps/current/



http://climate.sdstate.edu/awdn/archive/graphs.php?txtfrom=06/01/2012&txtto=07/28/2012&station=BES&parameterz=temp



SOUTH DAKOTA Climate and Weather

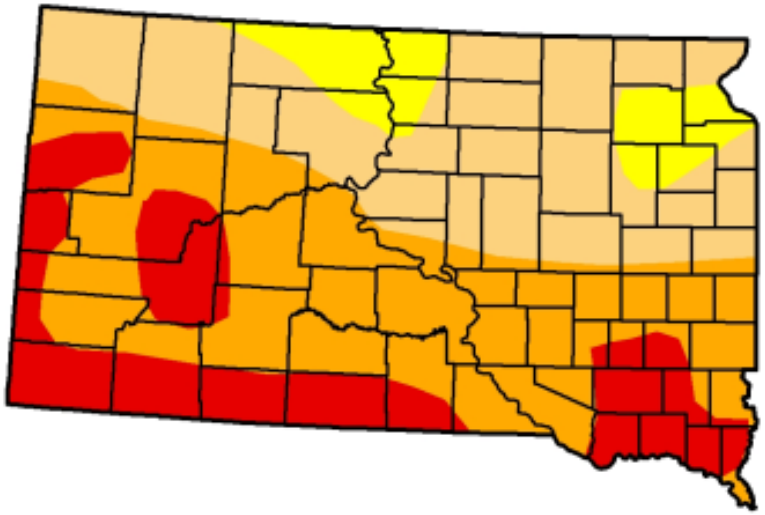
U.S. Drought Monitor

July 24, 2012
Valid 7 a.m. EST

South Dakota

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	91.99	59.15	20.38	0.00
Last Week (07/17/2012 map)	0.00	100.00	90.37	44.93	0.00	0.00
3 Months Ago (04/24/2012 map)	39.81	60.19	34.10	0.00	0.00	0.00
Start of Calendar Year (12/27/2011 map)	48.14	51.86	13.86	2.11	0.00	0.00
Start of Water Year (09/27/2011 map)	71.37	28.63	7.36	0.00	0.00	0.00
One Year Ago (07/19/2011 map)	100.00	0.00	0.00	0.00	0.00	0.00



Intensity:

- D0 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 forecast statements.

http://droughtmonitor.unl.edu

Released Thursday, July 26, 2012
Richard Heim, National Climatic Data Center, NOAA

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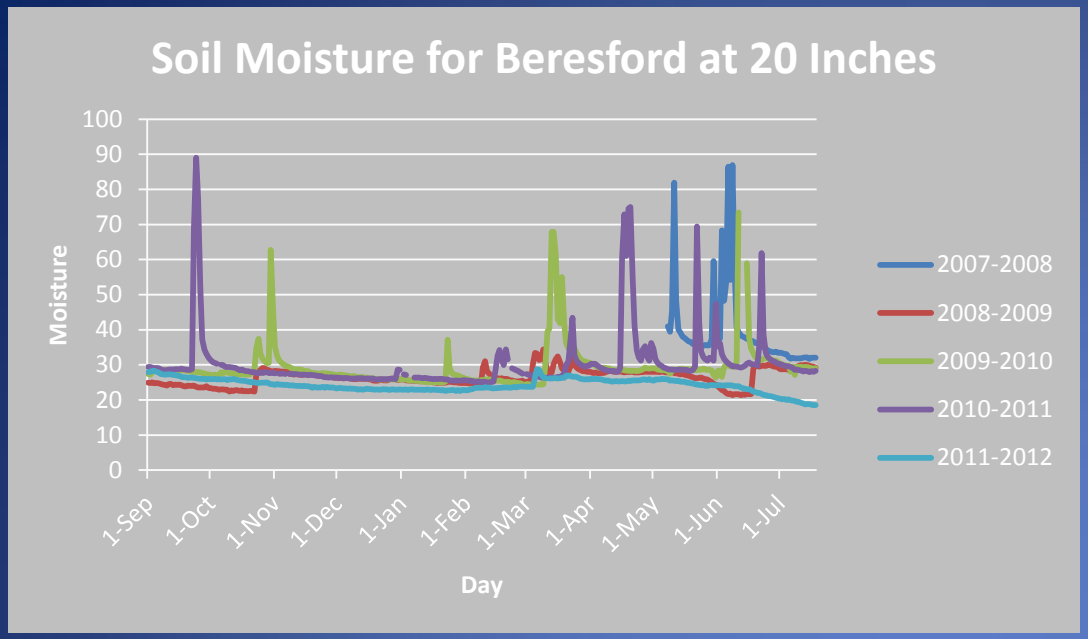
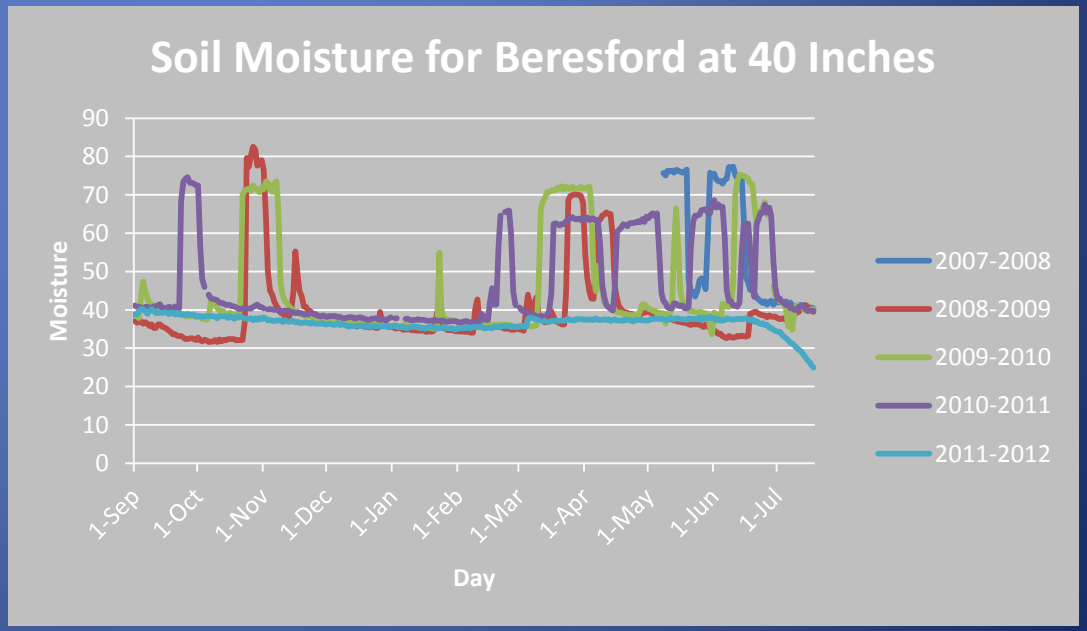
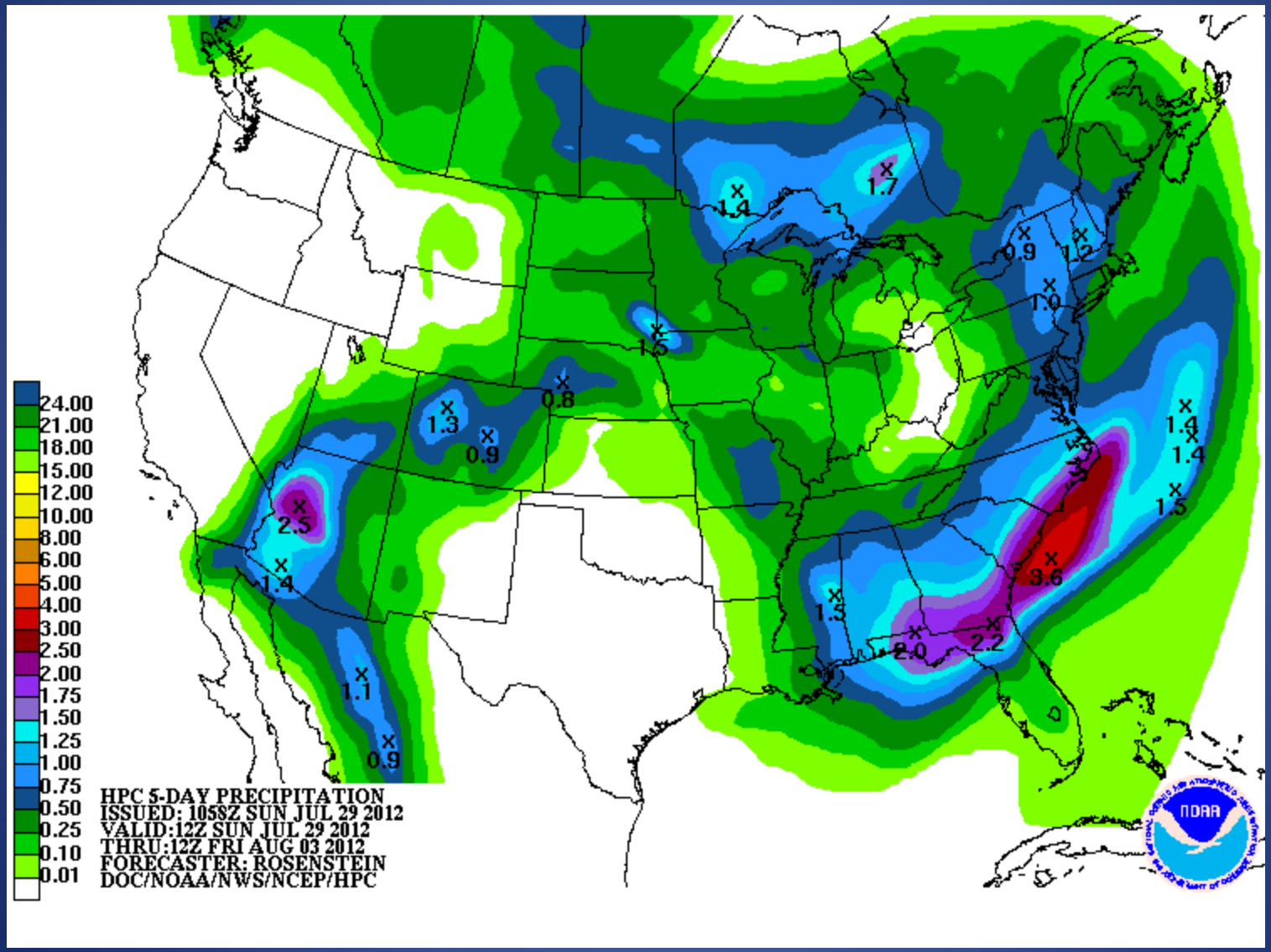




SDSU Soil Moisture

http://climate.sdstate.edu/awdn/soil/soil.asp

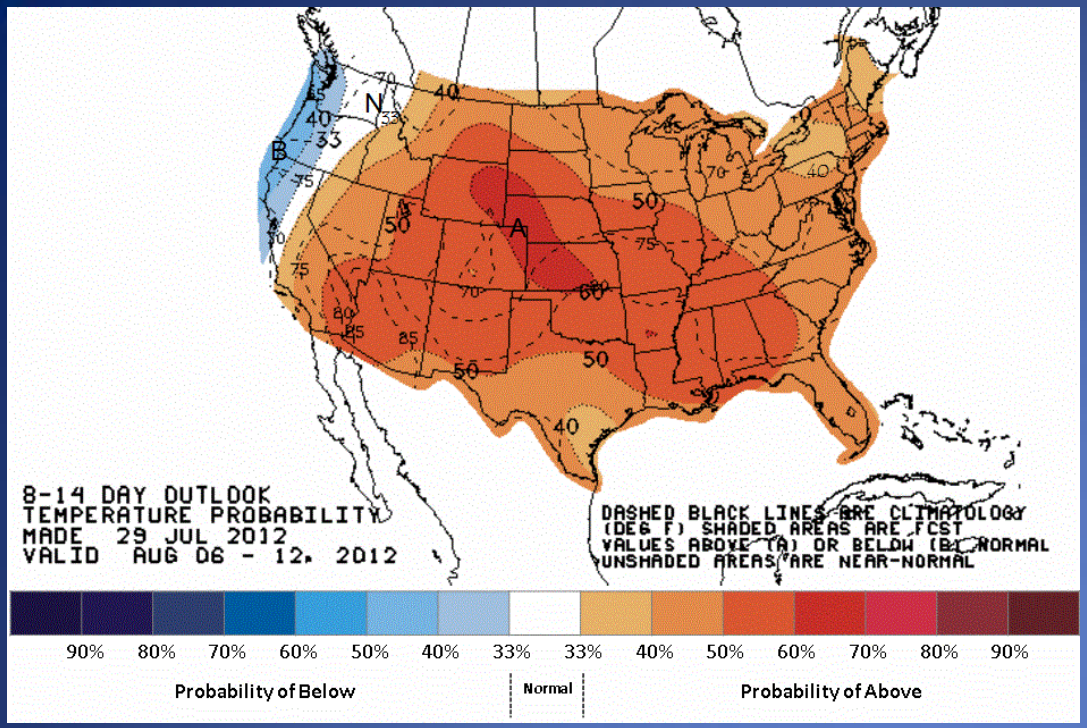
NOAA HPD 5 Day Precip Forecast

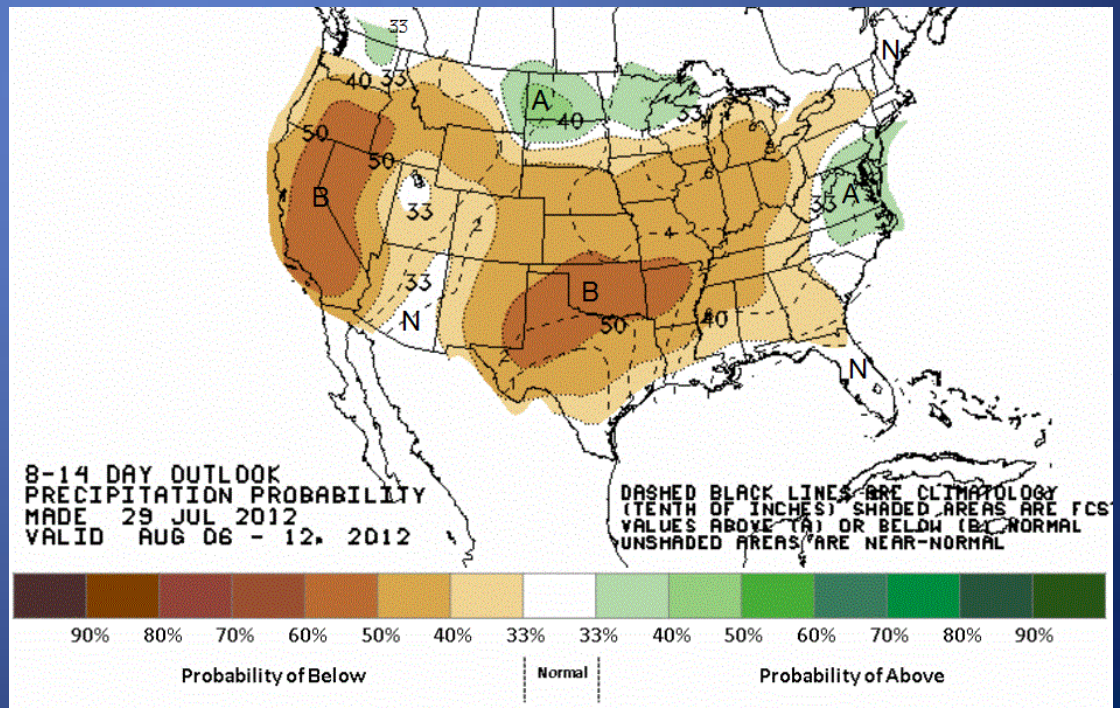


8-14 day

Temperature

Precipitation

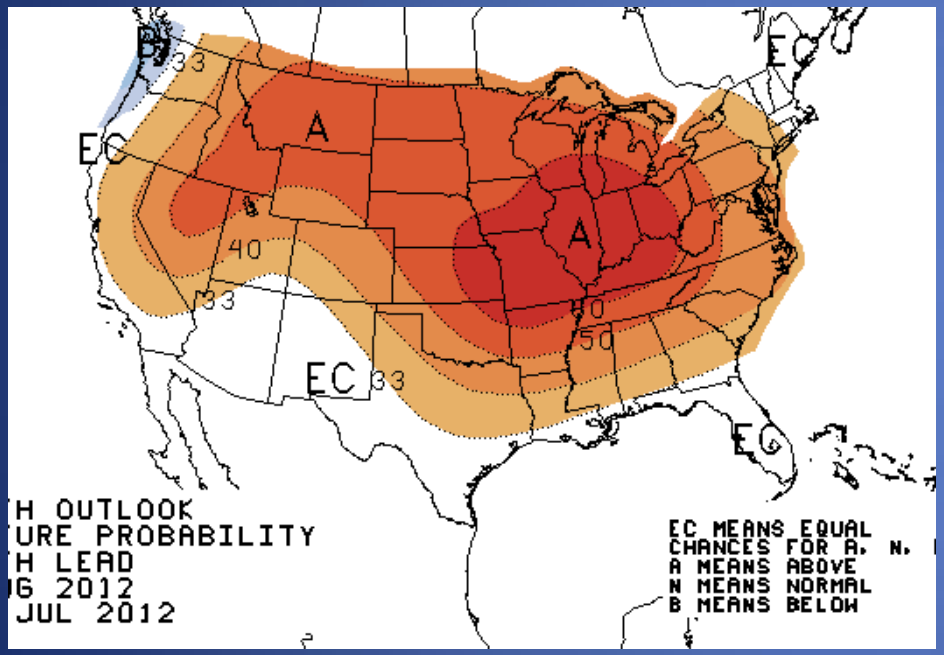


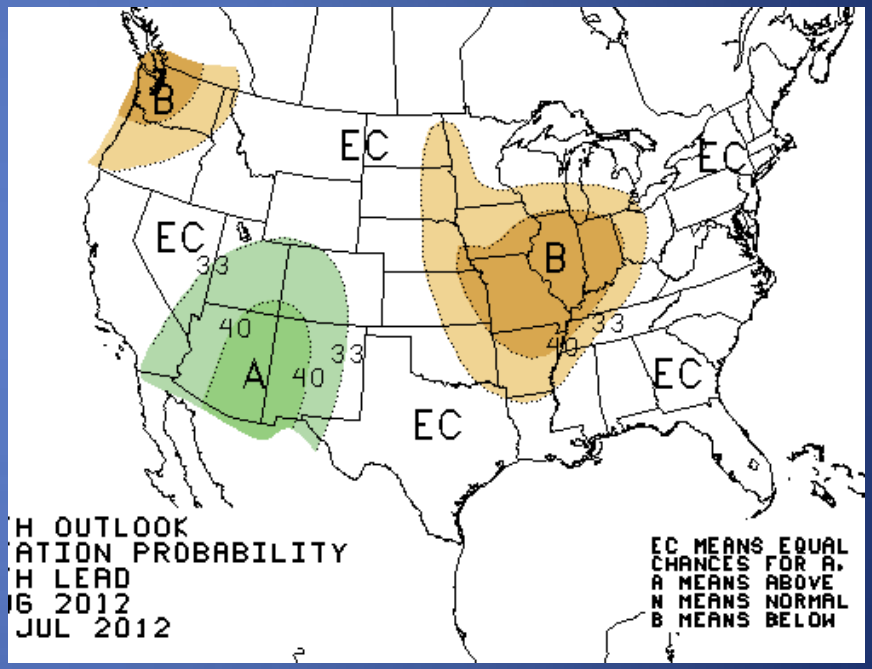


http://www.cpc.ncep.noaa.gov

Issued daily

August Temperature and Precipitation Probabilities

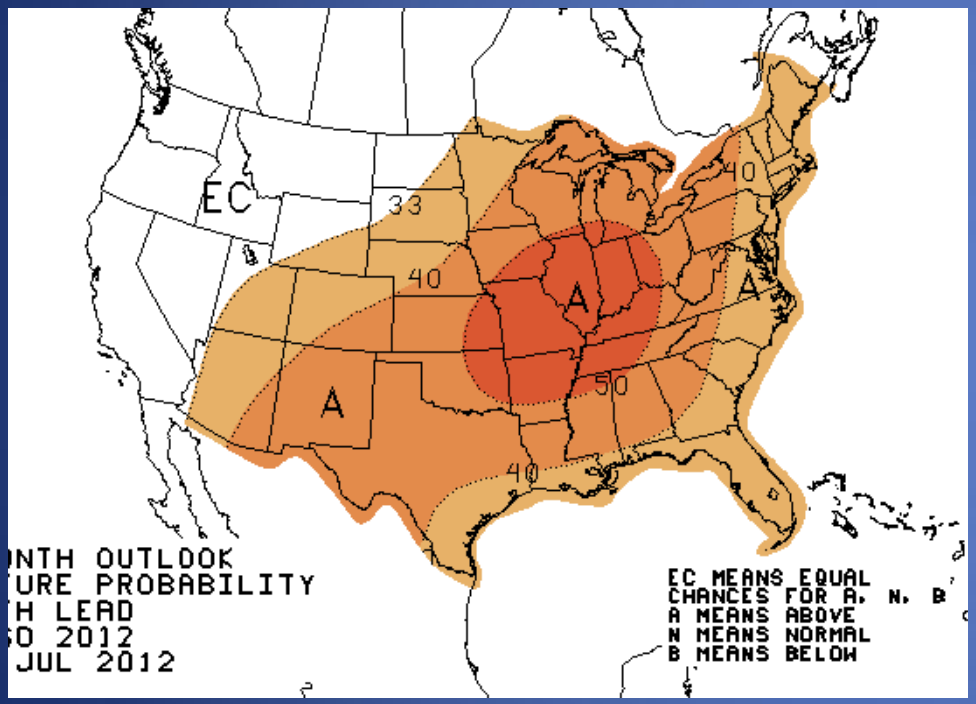


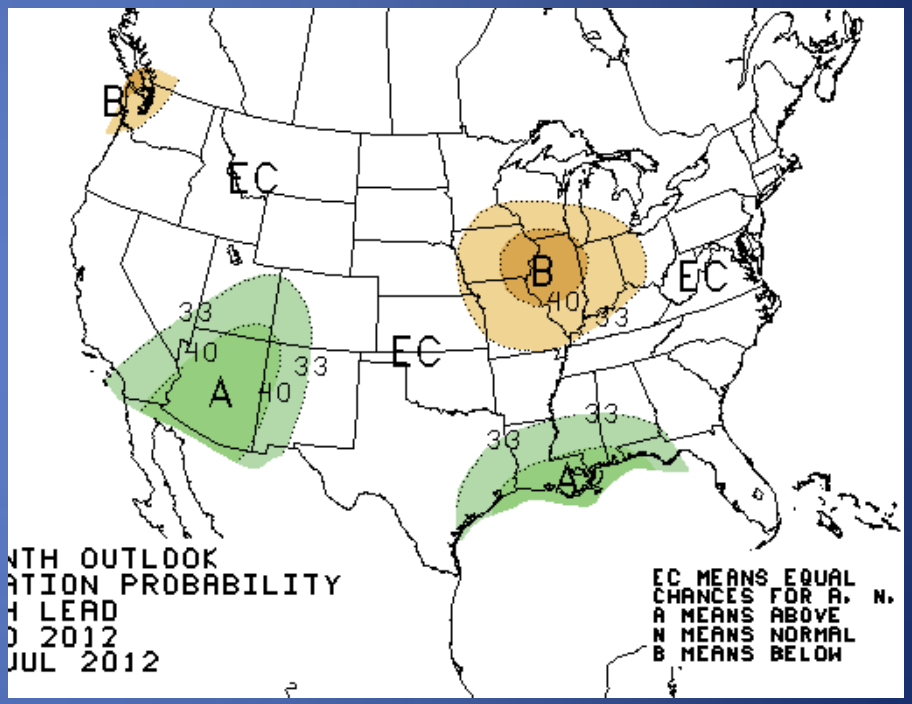


http://www.cpc.ncep.noaa.gov/products/predictions/30day/

3 Month Temperature and Precipitation Probabilities

(August – September - October)





Temperature **Precipitation**

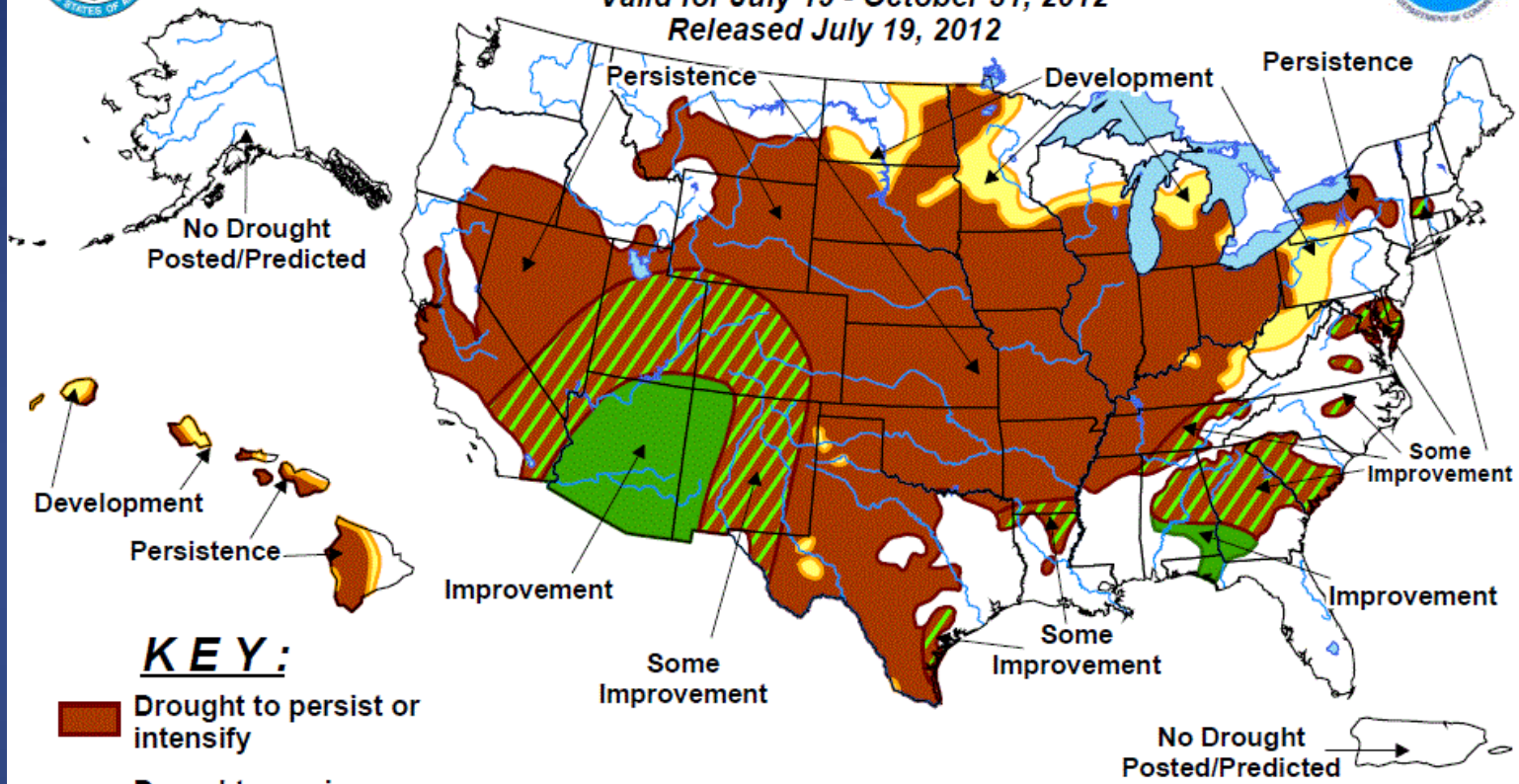
http://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=1

U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for July 19 - October 31, 2012

Released July 19, 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.

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