Central Region Drought Outlook
16 August 2012

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Corn near Beresford, SD–9 Aug. 2012
Author photo
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, National Drought Mitigation Center, Iowa State University

Next Climate/Drought Outlook Webinar

- September 6th, 2012 (1 PM CDT)
- Hosted by (TBD)

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 & historical context
* Current impacts
* Predictions
* Questions/Comments

Turner, County, SD – 8 August 2012
Author photo
Key Points

* **Current Conditions**
  * Still dry – some precip in isolated areas
  * Pattern change cooler conditions near-term
  * Setting many record for temp/precip
  * Ag impacts still large
  * Env. Impacts showing up now

* **Predictions**
  * Near term cooler conditions
  * Fall possibly still warm
  * No major precipitation changes
  * Drought conditions will stay – some reductions likely
  * El Nino impacting future outlooks
Extreme Heat Lingers, Expands West
Number of Days Maximum Temperatures ≥ 100°F
June 1 - August 4, 2012

Number of Days Maximum Temperatures ≥ 100°F
- 2 or more
- 4 or more
- 8 or more
- 12 or more

U.S. Corn Belt
- Major Corn Area
- Minor Corn Area
July Precipitation Ranks

July 2012 Statewide Ranks
National Climatic Data Center/NESDIS/NOAA

July 2012 Divisional Ranks
National Climatic Data Center/NESDIS/NOAA

http://www.ncdc.noaa.gov/sotc/national/2012/7
Current Soil Moisture

http://www.emc.ncep.noaa.gov/mmb/nldas/drought/
Large Fires
USDA Forest Service

Fire conditions exist and will continue to exist across much of the central region:

http://activefiremaps.fs.fed.us/
Drought Monitor Update

U.S. Drought Monitor
August 14, 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
- 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, August 16, 2012
Author: Michael Brewer/Liz Love-Brotak, NOAA/NESDIS/NCDC

http://www.droughtmonitor.unl.edu/
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http://droughtmonitor.unl.edu
Impacts

- Fish kills in several state (water temps)
- Row crops major yield losses
- Commodity prices major increases
- Corn chopping for silage many areas
- Numerous fires (western areas and others)
- Watering restrictions more locations
- Wells going dry (IN)

Associated Press
Waterloo, NE
2 weeks out (8-14 days)

September

3 Months (September - November)

www.cpc.ncep.noaa.gov

Drought Monitor Outlook

Released Thursday 8/16/2012
El Nino Resurgence – SST loop

Sept.-Nov. El Nino Precipitation Signal

http://www.cpc.ncep.noaa.gov/products/precip/CWlink/ENSO/composites/EC_ENP_index.shtml
Temperature and Precipitation Probabilities for 8/23- 8/29/12

Temperature
Precipitation
September Temperature and Precipitation Probabilities

http://www.cpc.ncep.noaa.gov/products/predictions/predictions/30day/
3 Month Temperature and Precipitation Probabilities
(September - November)

Temperature

Precipitation

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

U.S. Seasonal Drought Outlook
Drought Tendency During the Valid Period
Valid for August 16 - November 30, 2012
Released August 16, 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.

Normal Fall Precipitation (in)
Early freeze issues not likely
- Warm season has pushed crop ahead at record rates
- Or crop is already done
- Soybean little chance for further recovery
- Some fall recovery will happen (temp/prec)
  - Full recharge not likely
- Fires could still be an issue in the fall
Summary

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* **Predictions**
  * Near term cooler conditions
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Further Information - Partners

* 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 Portal: www.drought.gov

• National Drought Mitigation Center: http://drought.unl.edu/

• State climatologists  
  * http://www.stateclimate.org

• Regional climate centers  
  * http://mrcc.isws.illinois.edu  
    * http://www.hprcc.unl.edu
Thank You and Questions?

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