

2013—Will Drought Repeat??

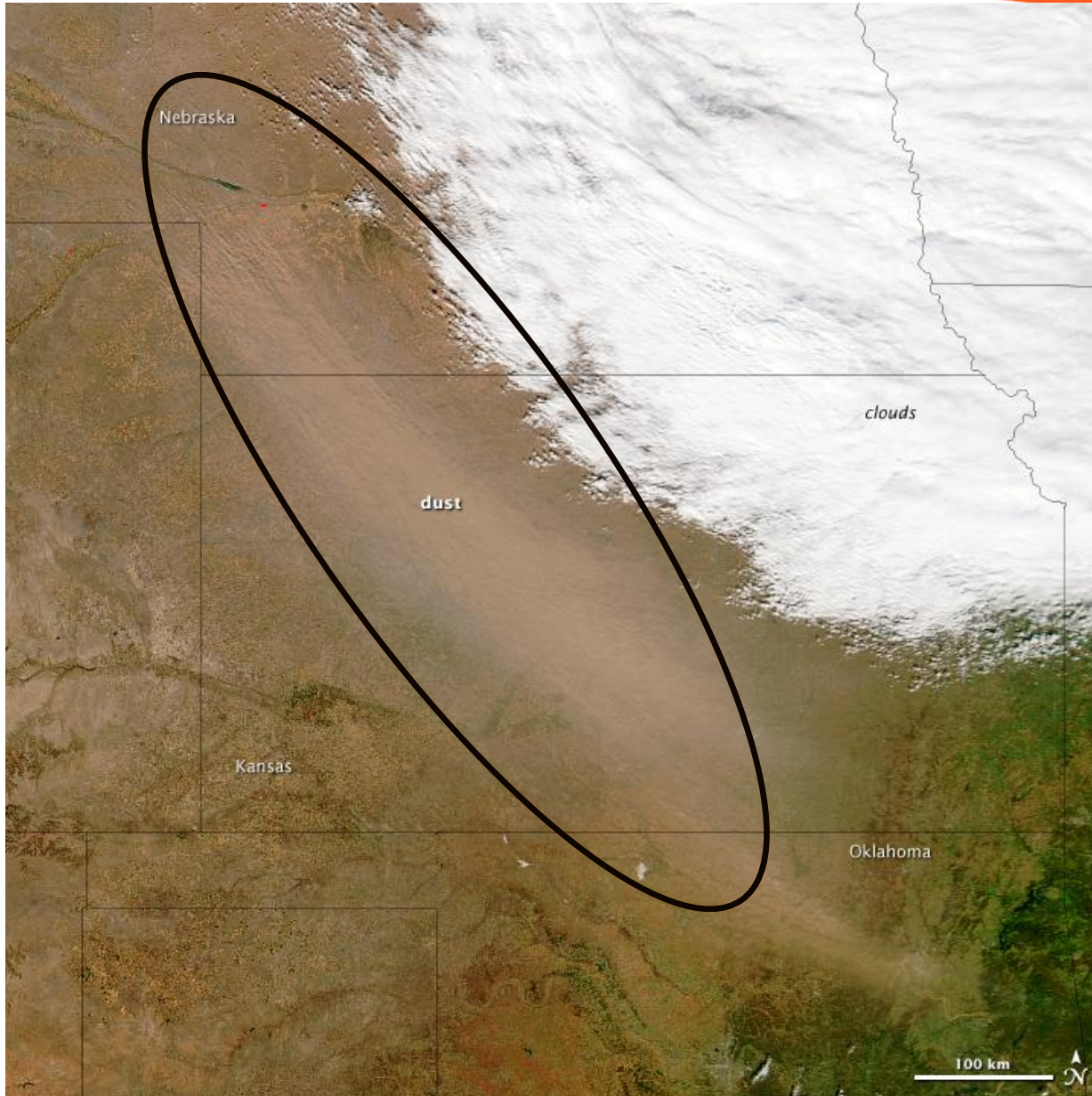


Drought 2012



Drought 2012





Drought 2012

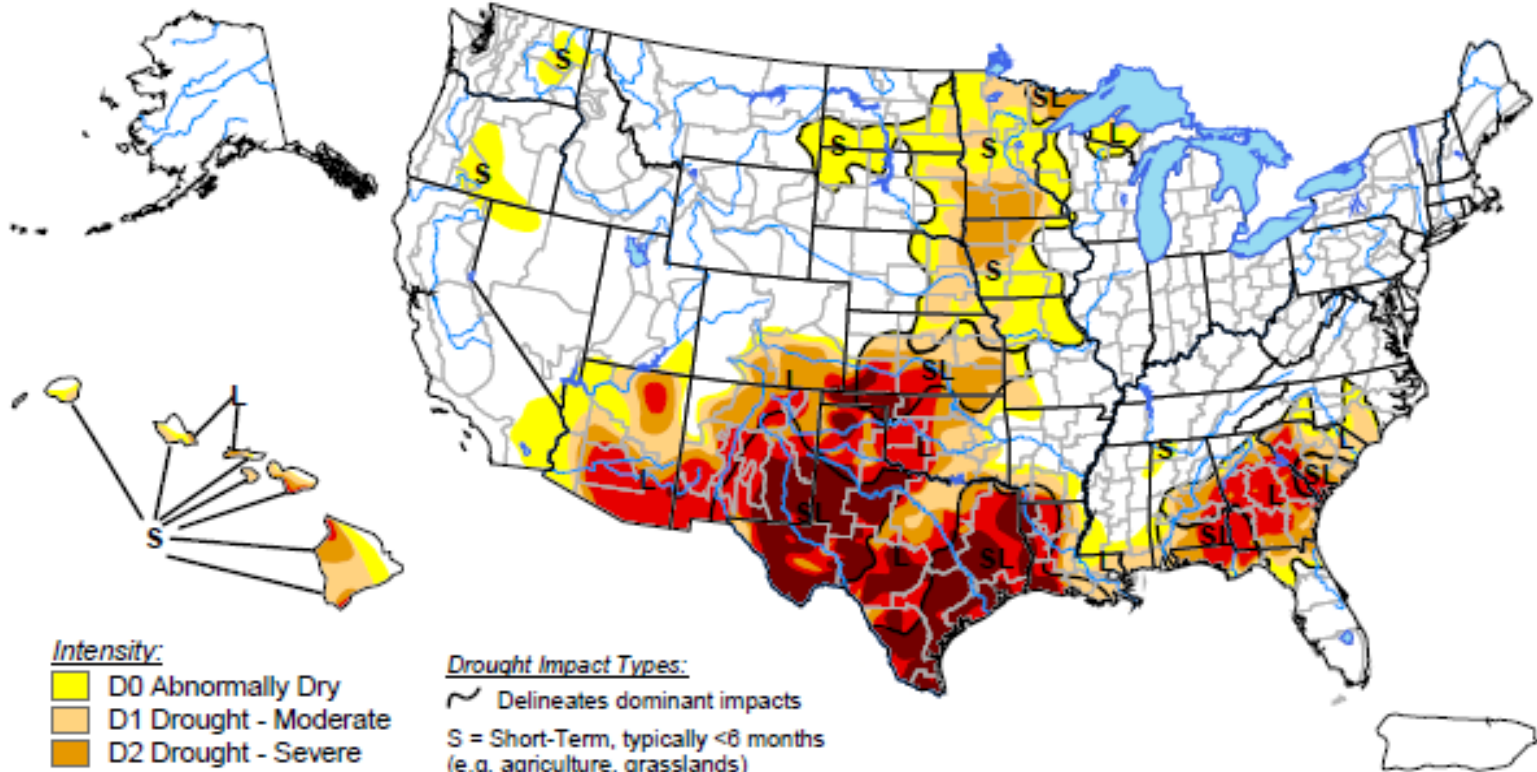
Drought 2012



WC
IN

U.S. Drought Monitor

November 29, 2011
Valid 7 a.m. EST



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/>

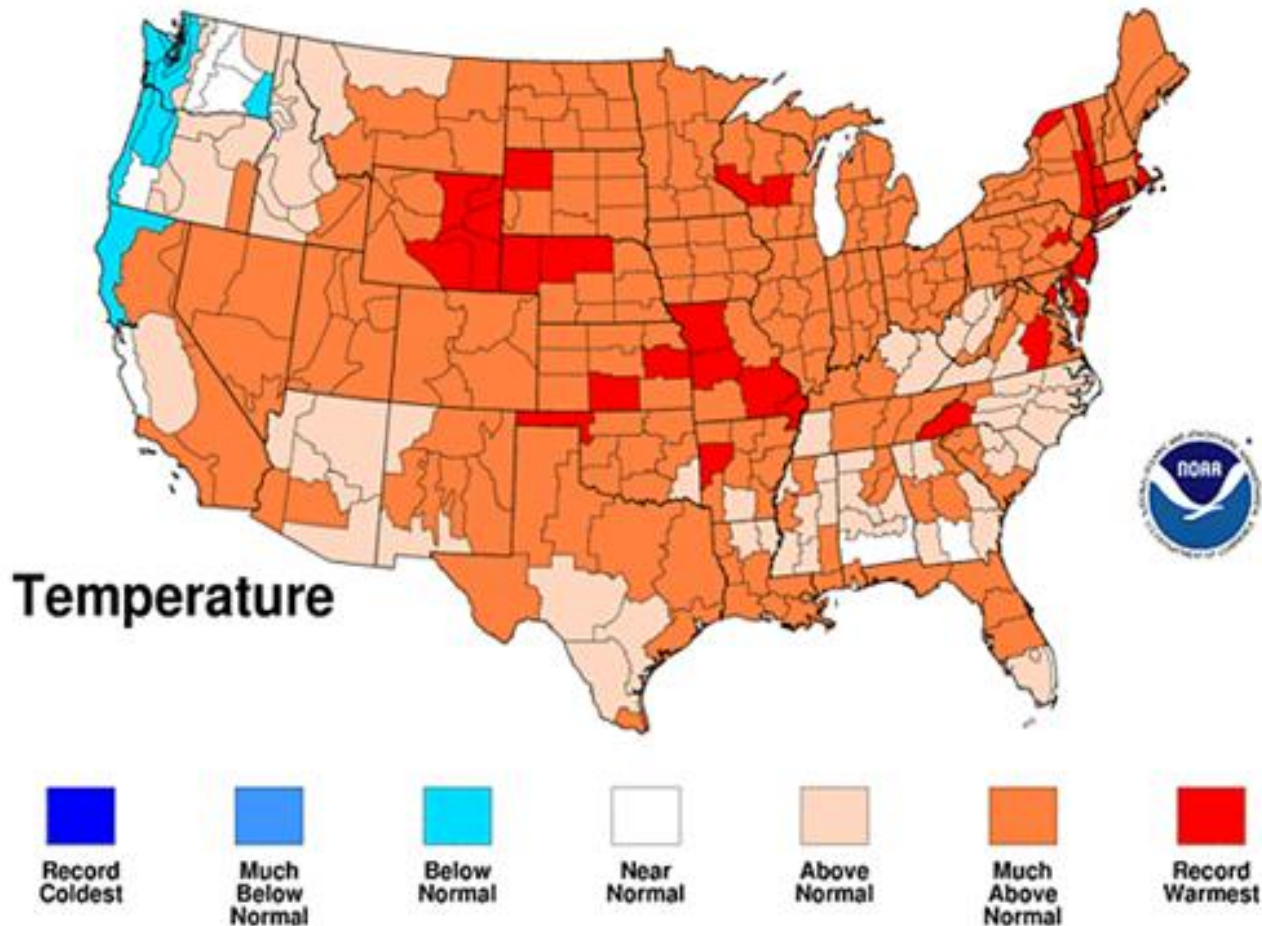


Released Thursday, December 1, 2011
Author: David Miskus, NOAA/NWS/NCEP/CPC

2012 Temperatures

Jan - Oct 2012

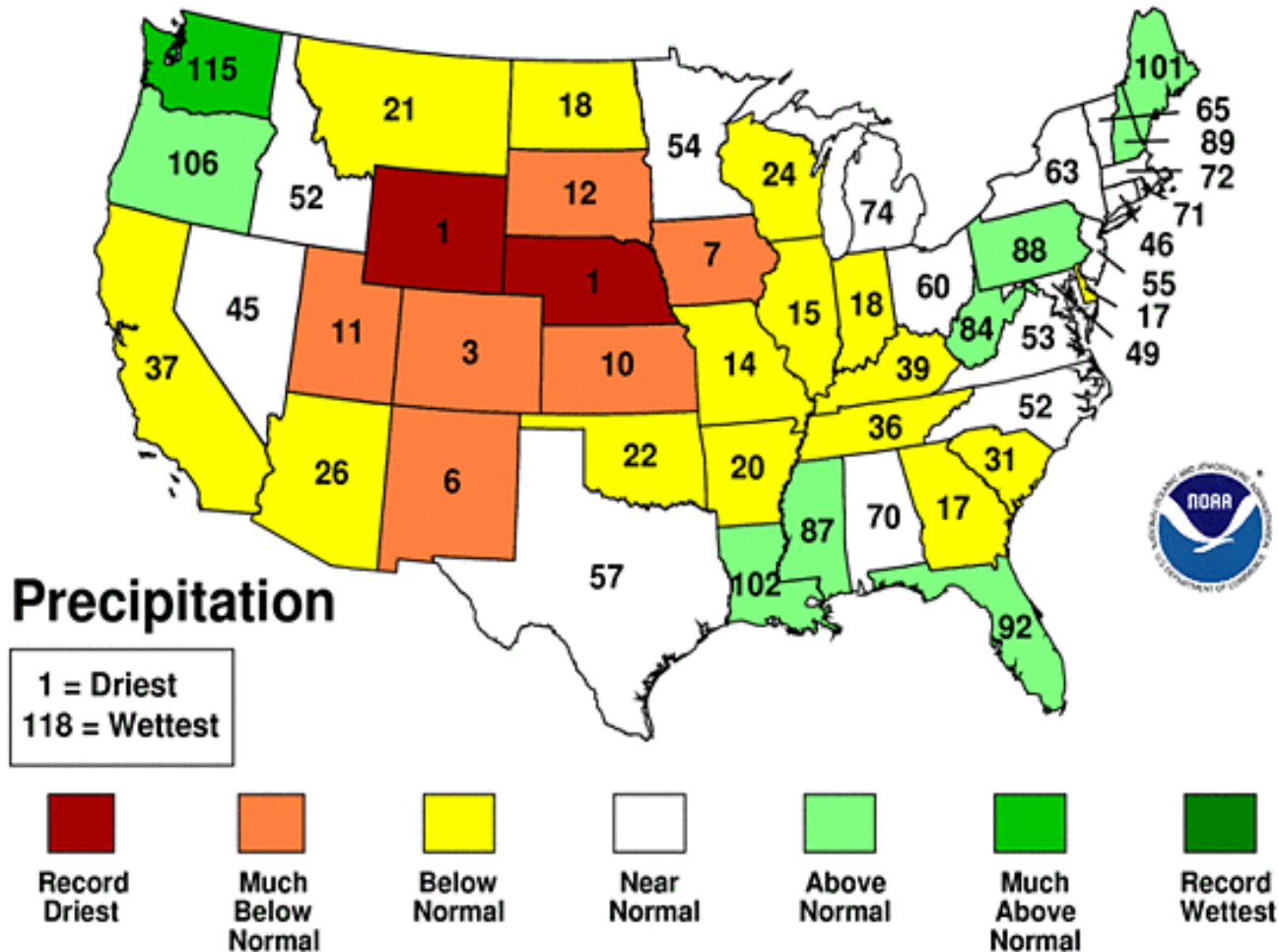
National Climatic Data Center/NESDIS/NOAA



2012 Precip

January-October 2012 Statewide Ranks

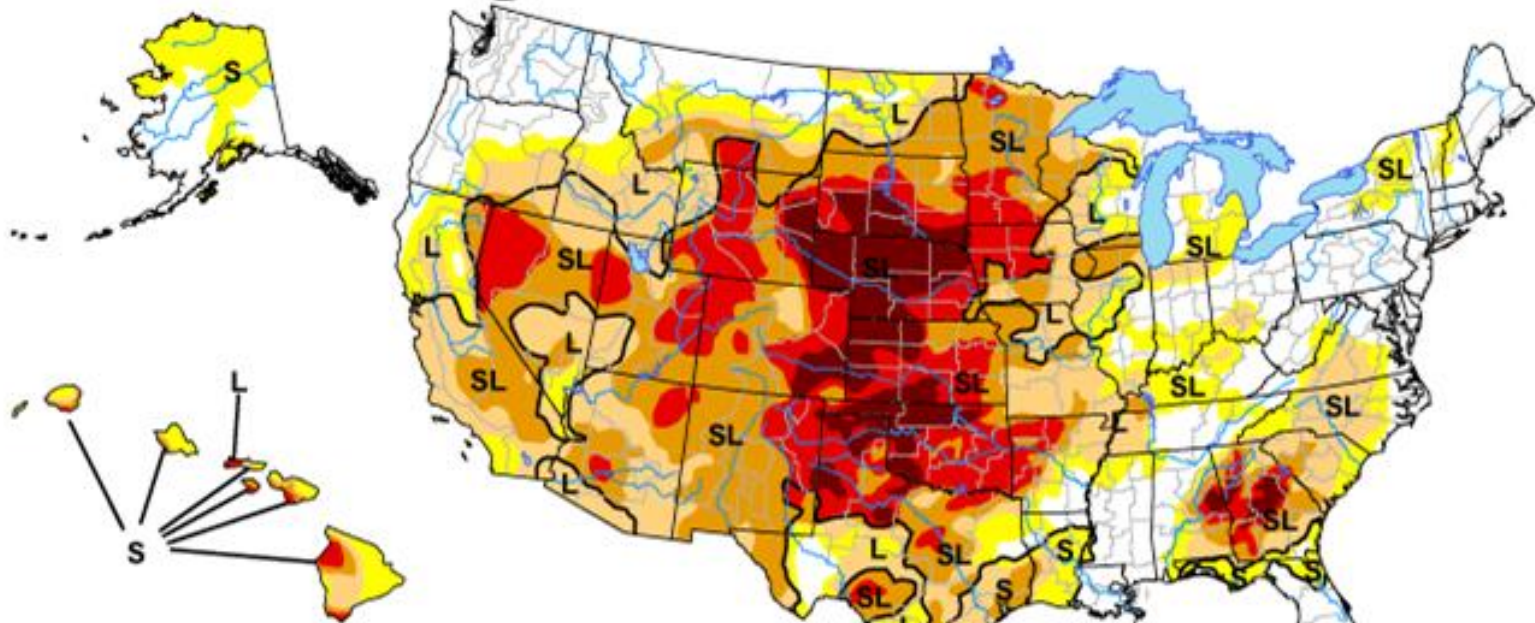
National Climatic Data Center/NESDIS/NOAA



U.S. Drought Monitor

November 27, 2012

Valid 7 a.m. EST



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- D3 Drought - Extreme
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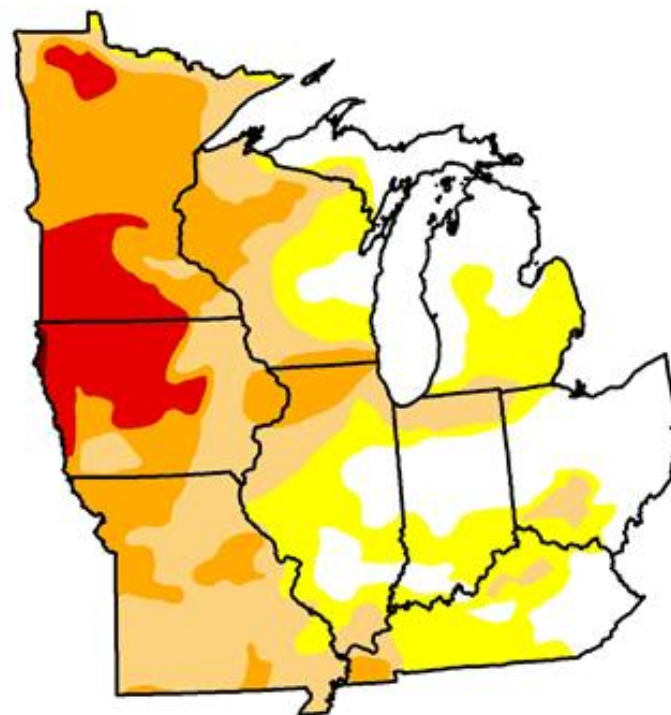
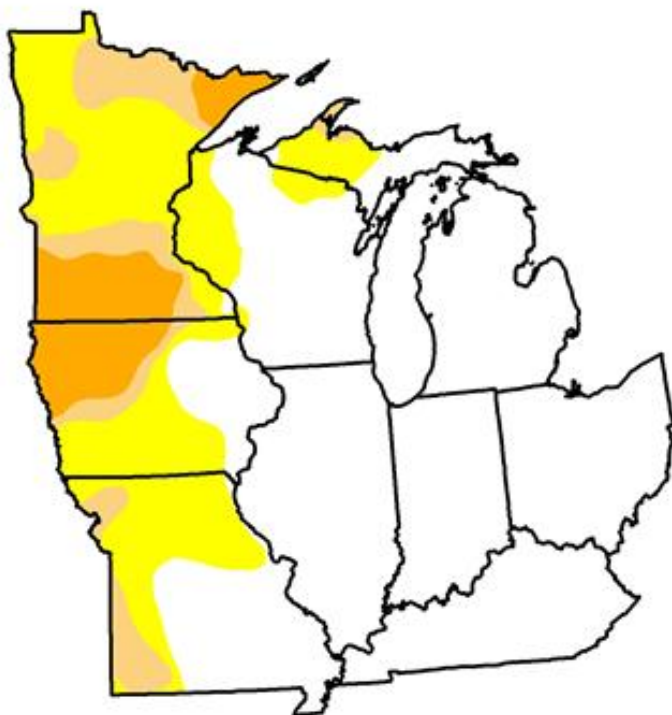
<http://droughtmonitor.unl.edu/>



Released Thursday, November 29, 2012

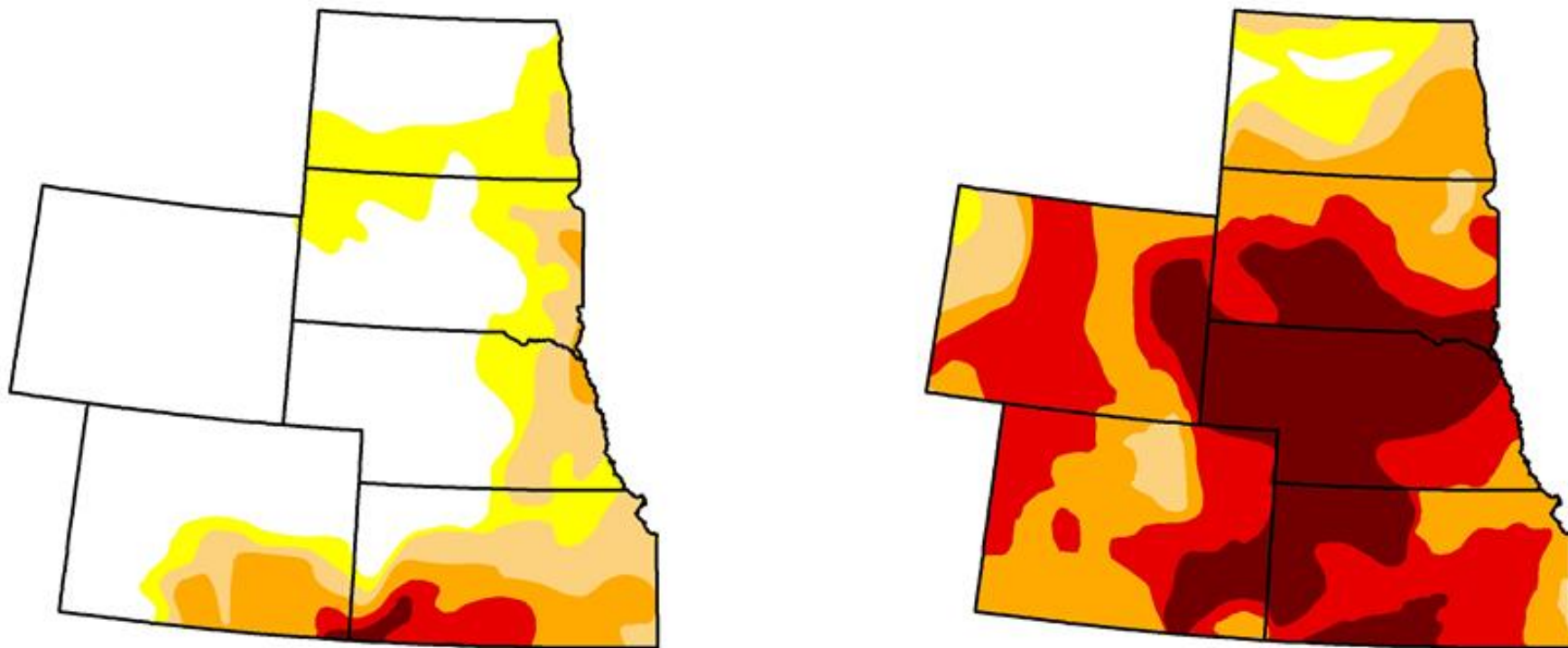
Author: Eric Luebehusen, U.S. Department of Agriculture

Midwest Drought Mon. 2011 & 2012



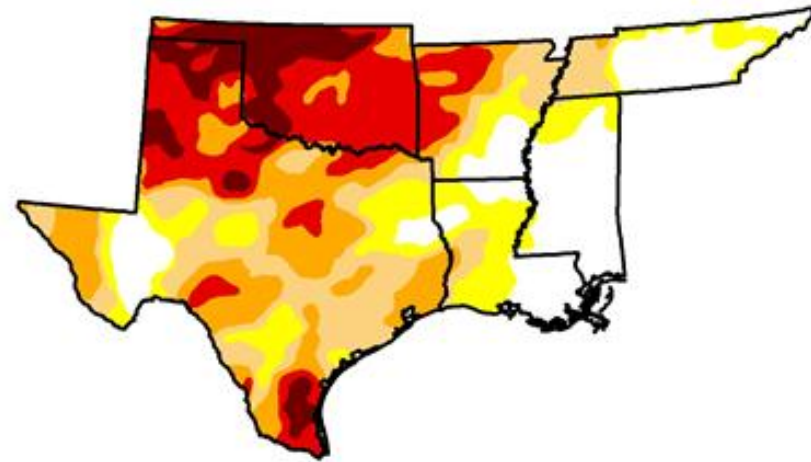
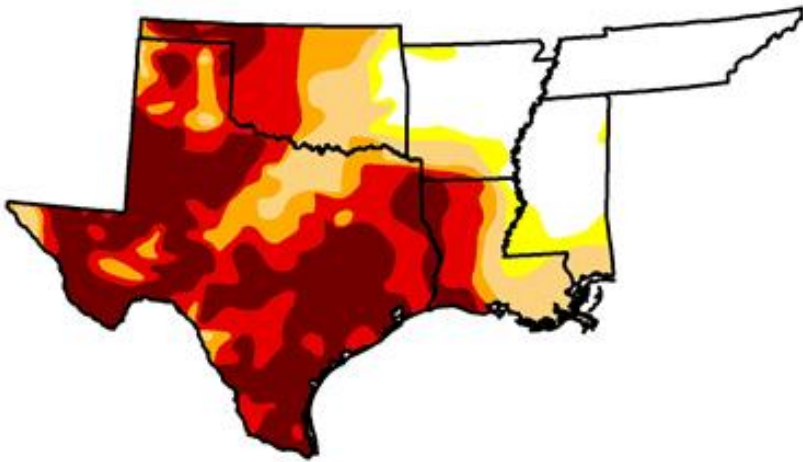
Much worse this year (right side) versus a year ago.

High Plains Drought Mon. 2011 & '12



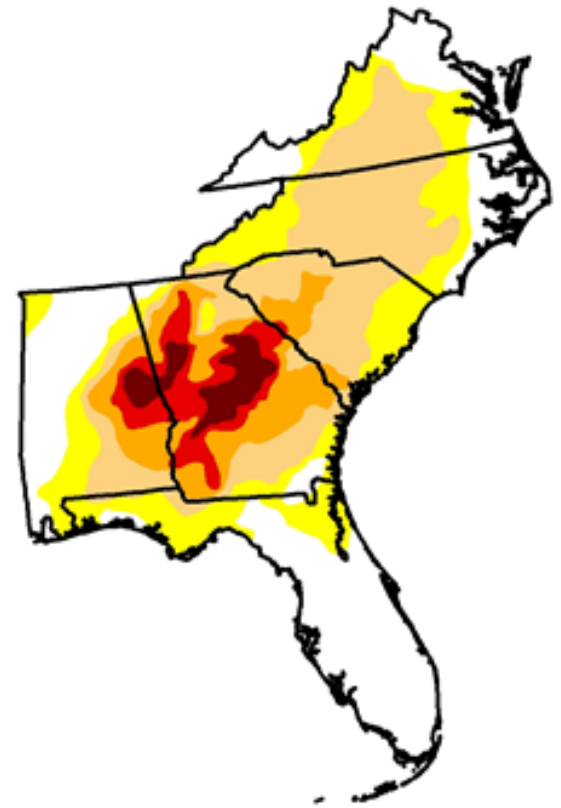
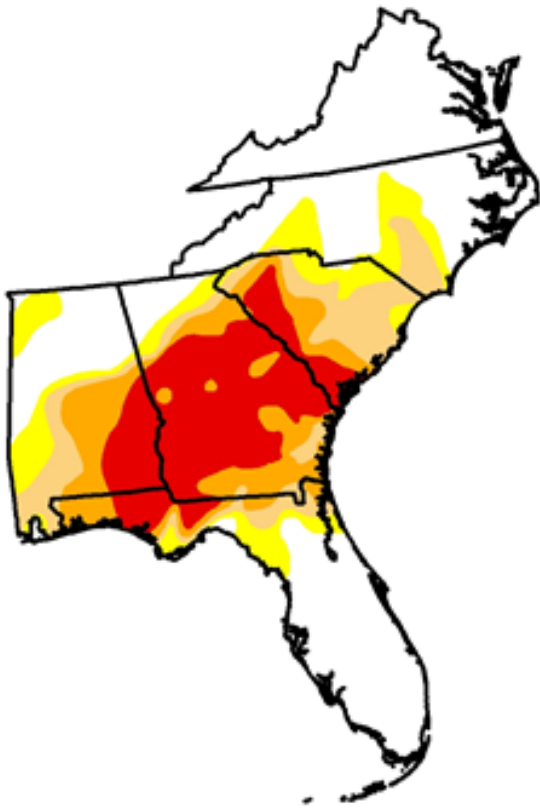
Much worse (right side) versus a year ago.

South Drought Mon. 2011 & 2012

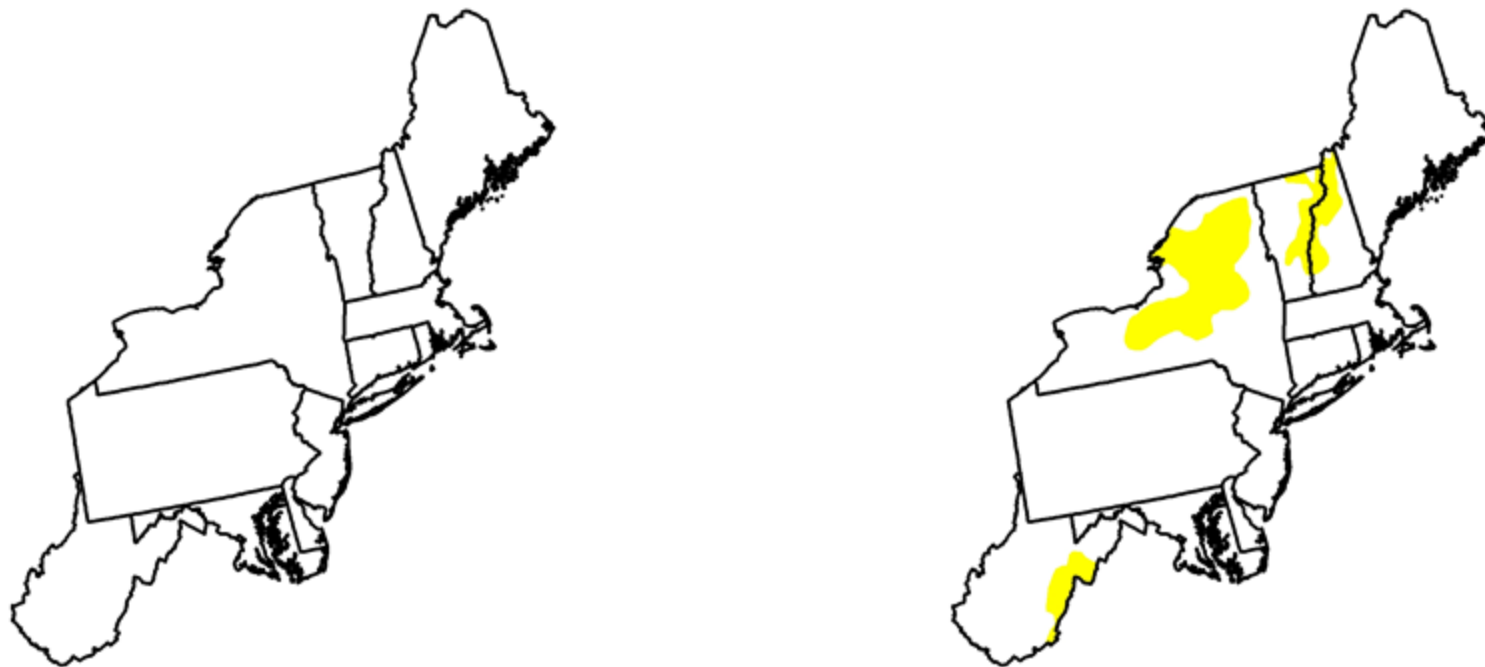


OK worse vs '11. TX Panhandle as bad. Modest improvement elsewhere TX. Delta drier.

Southeast Drought Mon. 2011 & '12

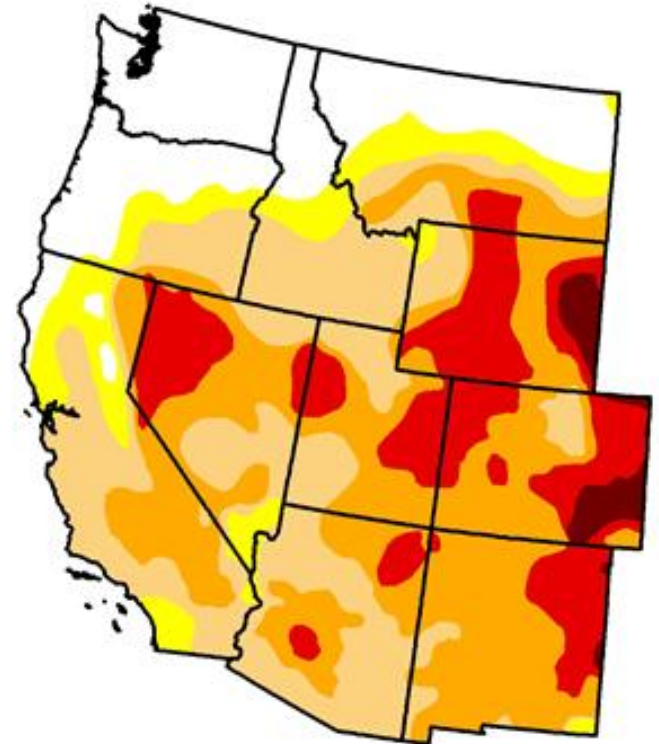
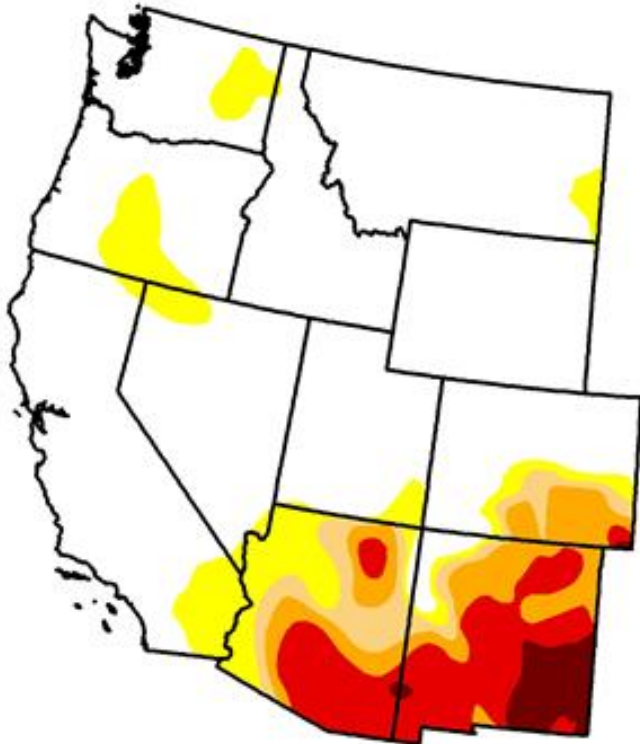


Northeast Drought Mon. 2011 & '12



Very few problems either in '11 or '12.

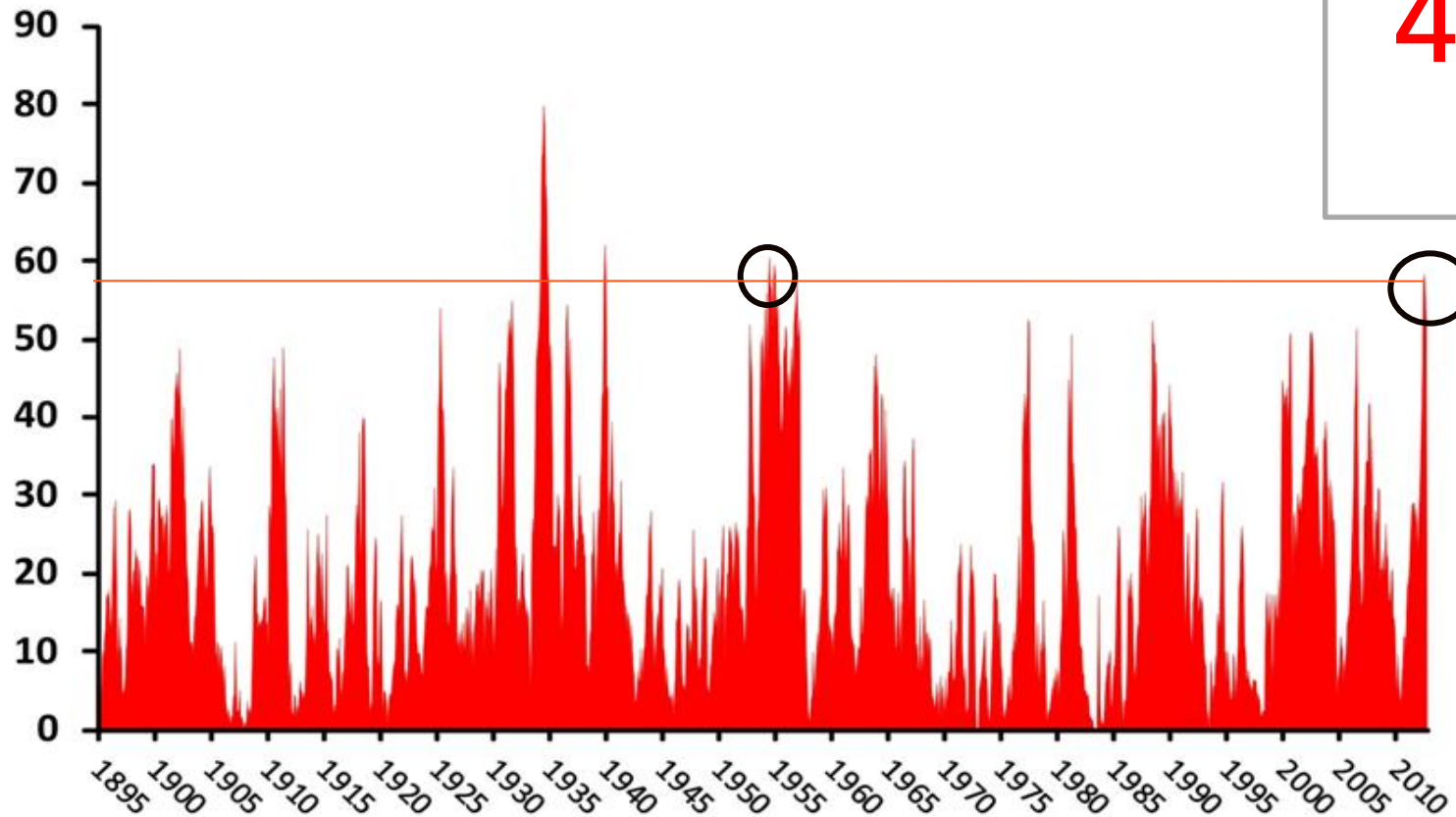
West Drought Mon. 2011 & '12



Much more extensive this year (right) vs '11.

Percent Area of the United States in Moderate to Extreme Drought

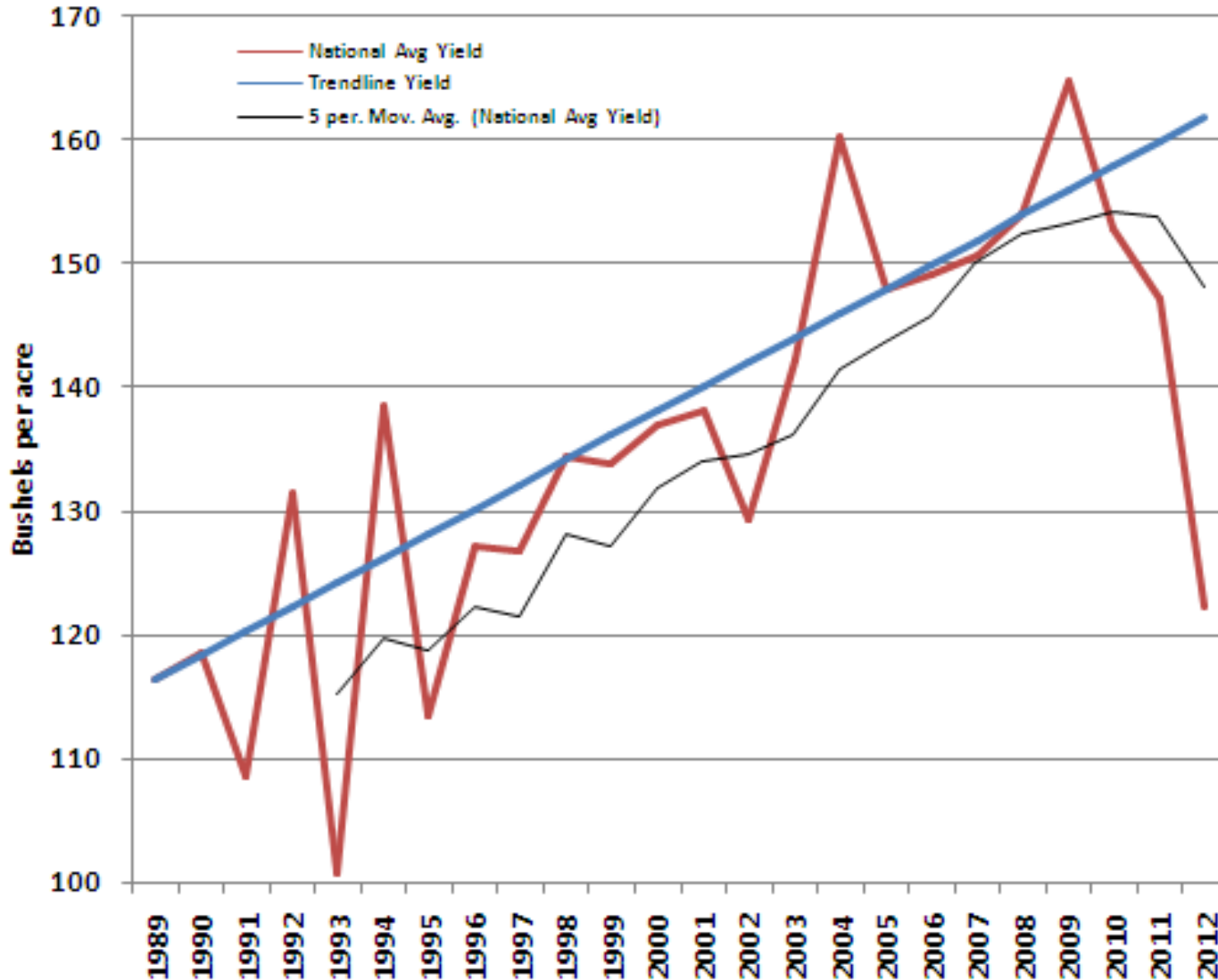
January 1895–September 2012



Based on data from the National Climatic Data Center/NOAA

Drought 2012

US Corn Yield

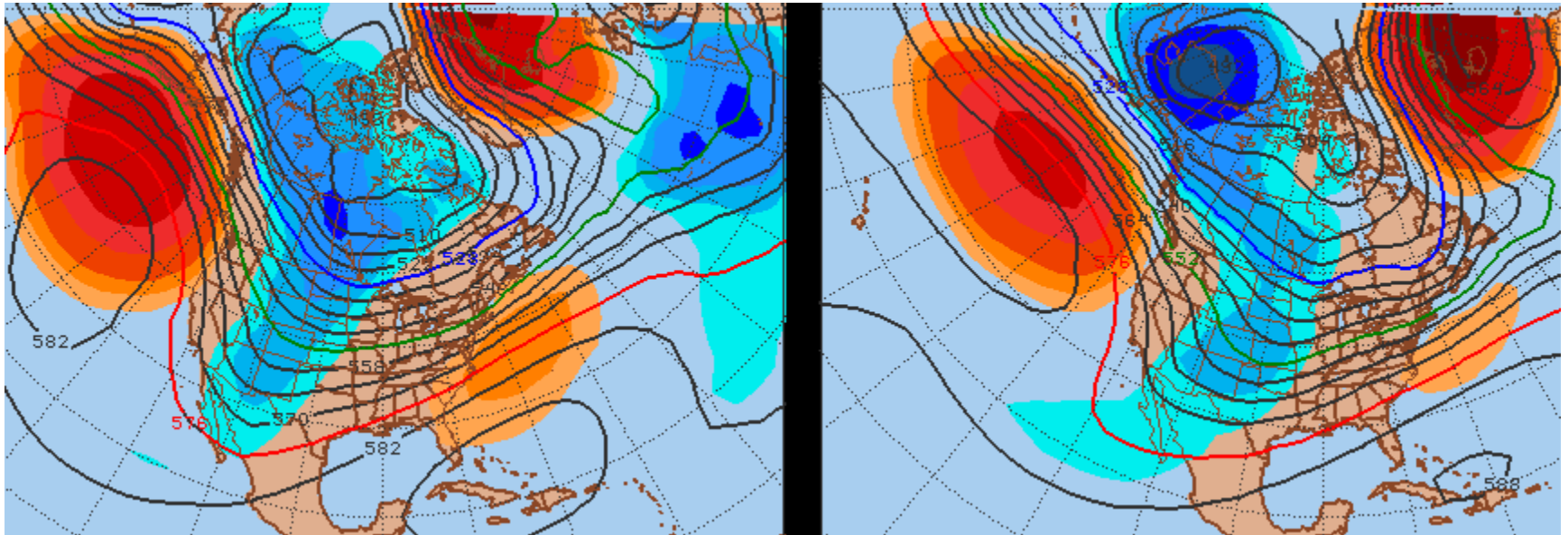


Calculated
 trendline
 162 Bu/A.
 5 yr
 moving
 avg yield
 around
 148 Bu/A.
 2012 yield
 122 Bu/A.

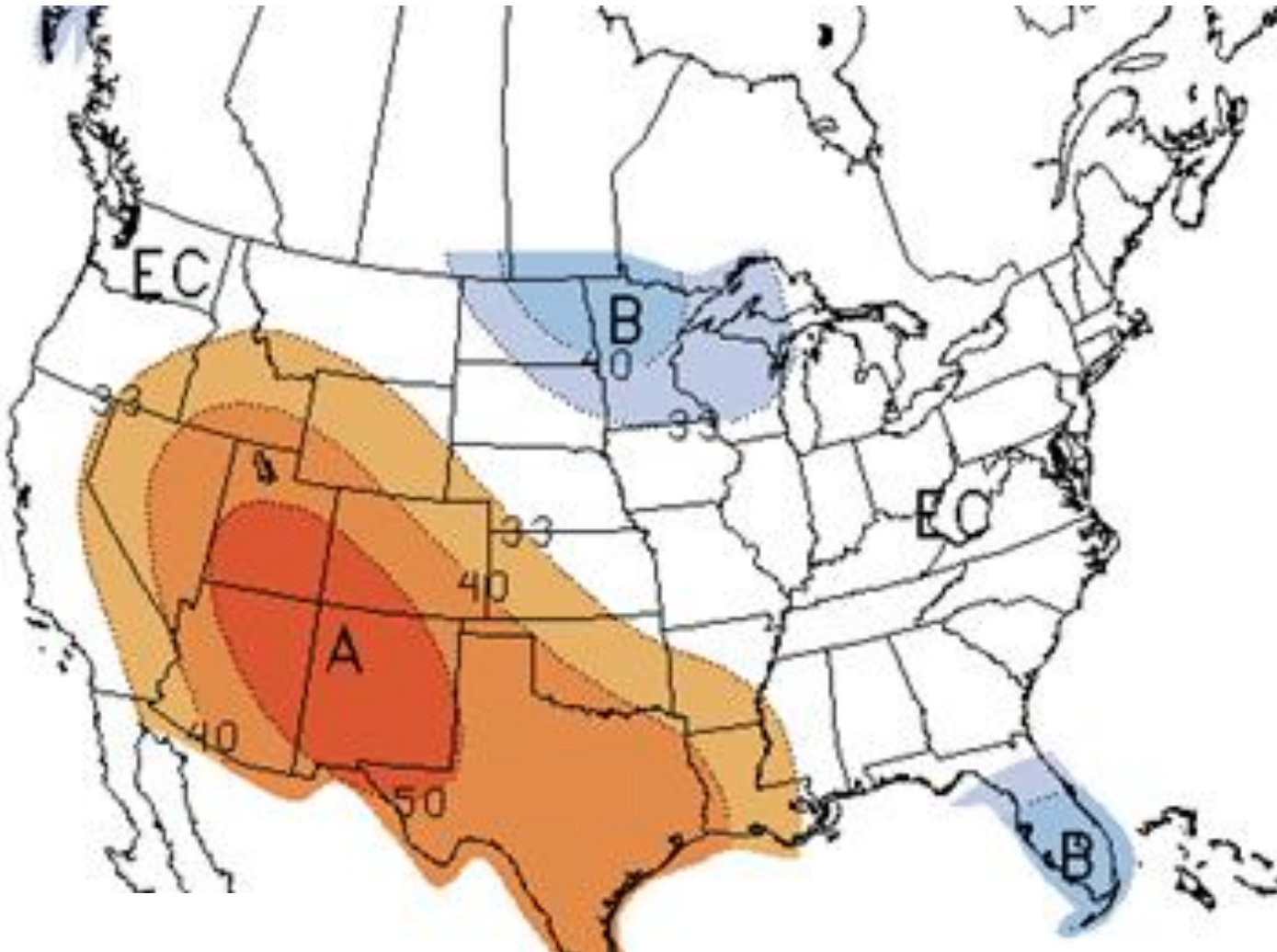
Jet Stream Outlook

EURO

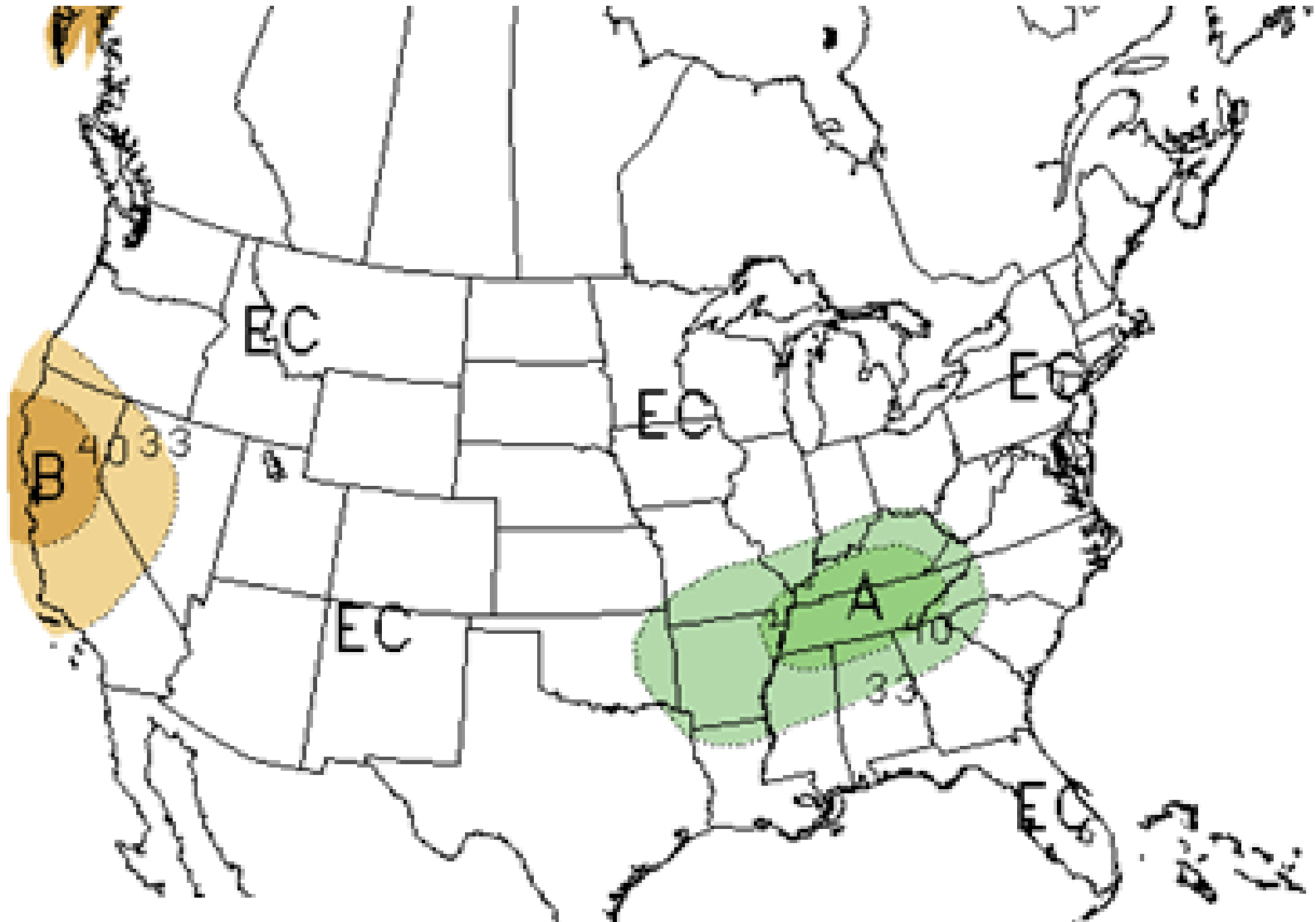
U.S.



Winter Temp Forecast



Winter Precip Forecast

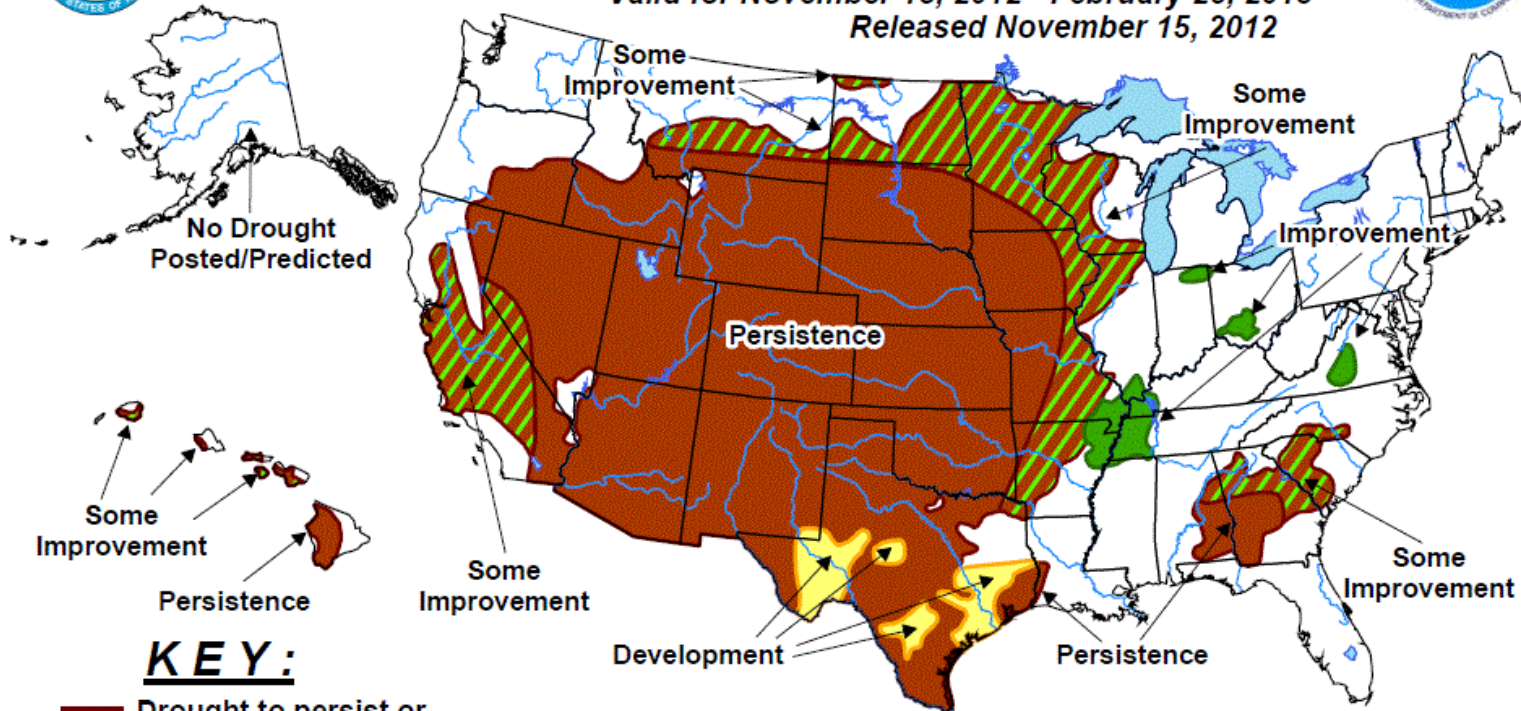
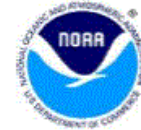


Drought Forecast







U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for November 15, 2012 - February 28, 2013
Released November 15, 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.

Takeaway Points

Corn-On-Corn Most Likely ECB

Irrigation Increase Again WCB

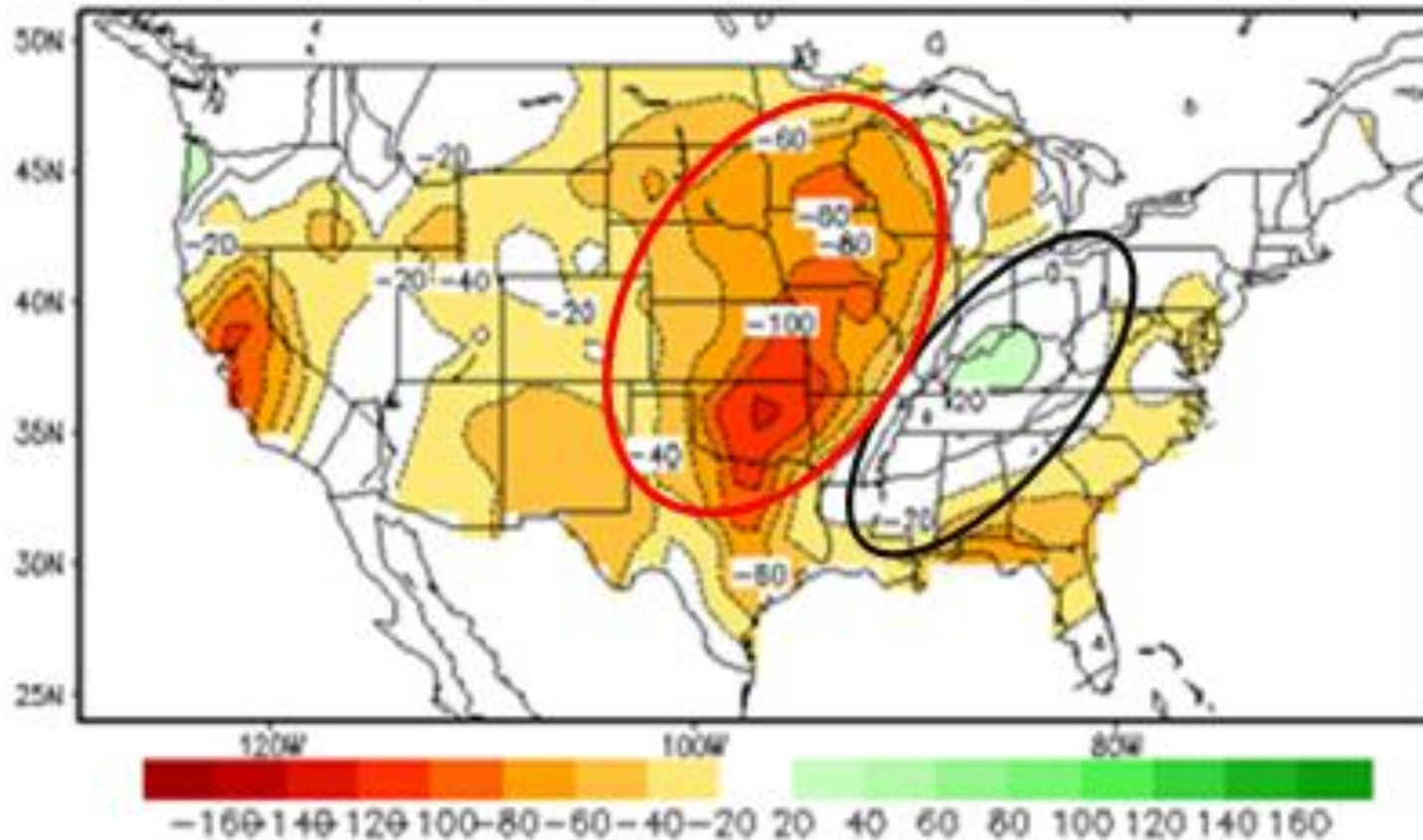
Water Supply Issues SW Plains

Trendline Yields Questionable

Pasture Supplies---???????

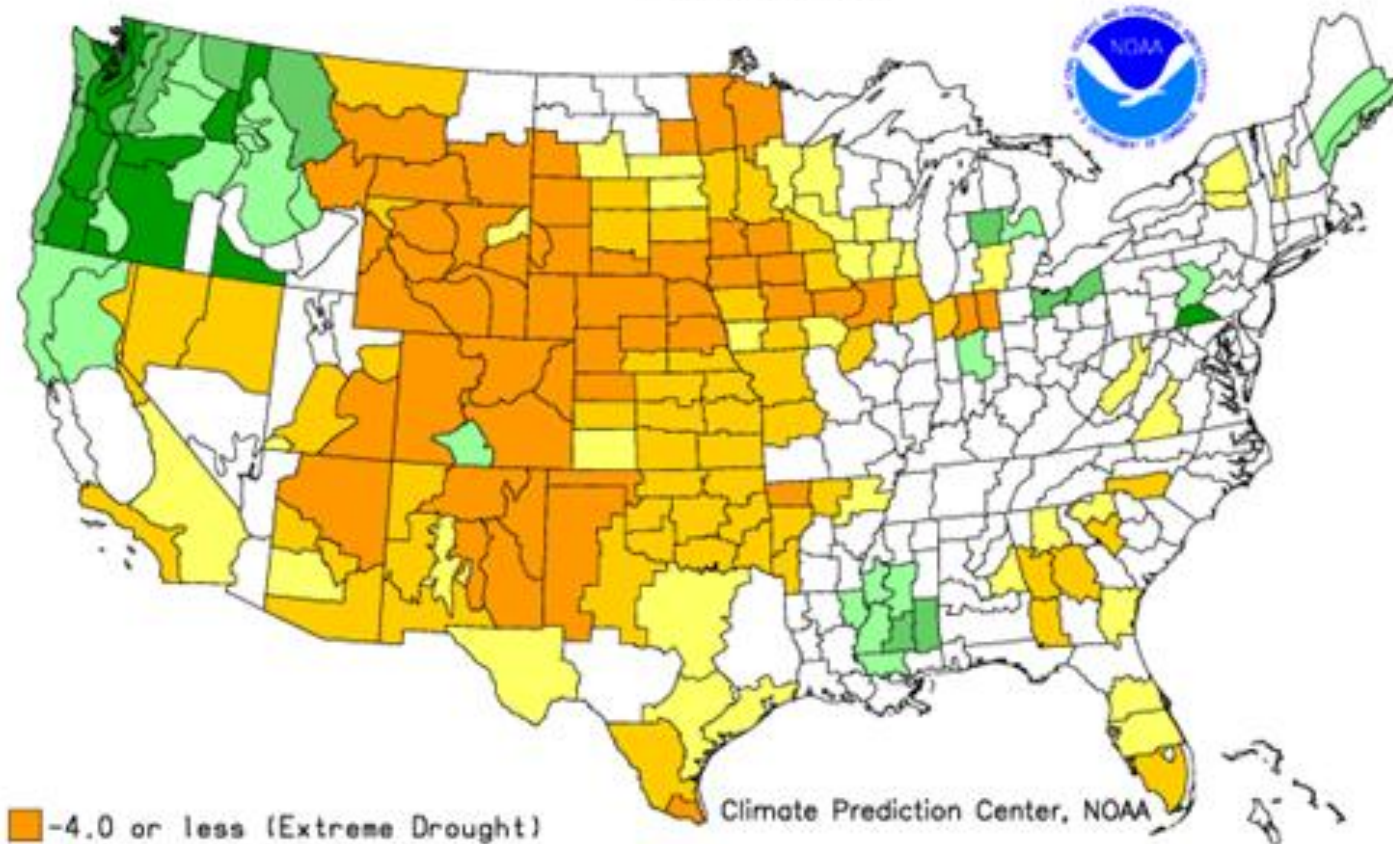
Soil Moisture Forecast

Lagged Averaged Soil Moisture Outlook for End of FEB2013
units:anomaly (mm), SM data ending at 20121112



Palmer Drought Index

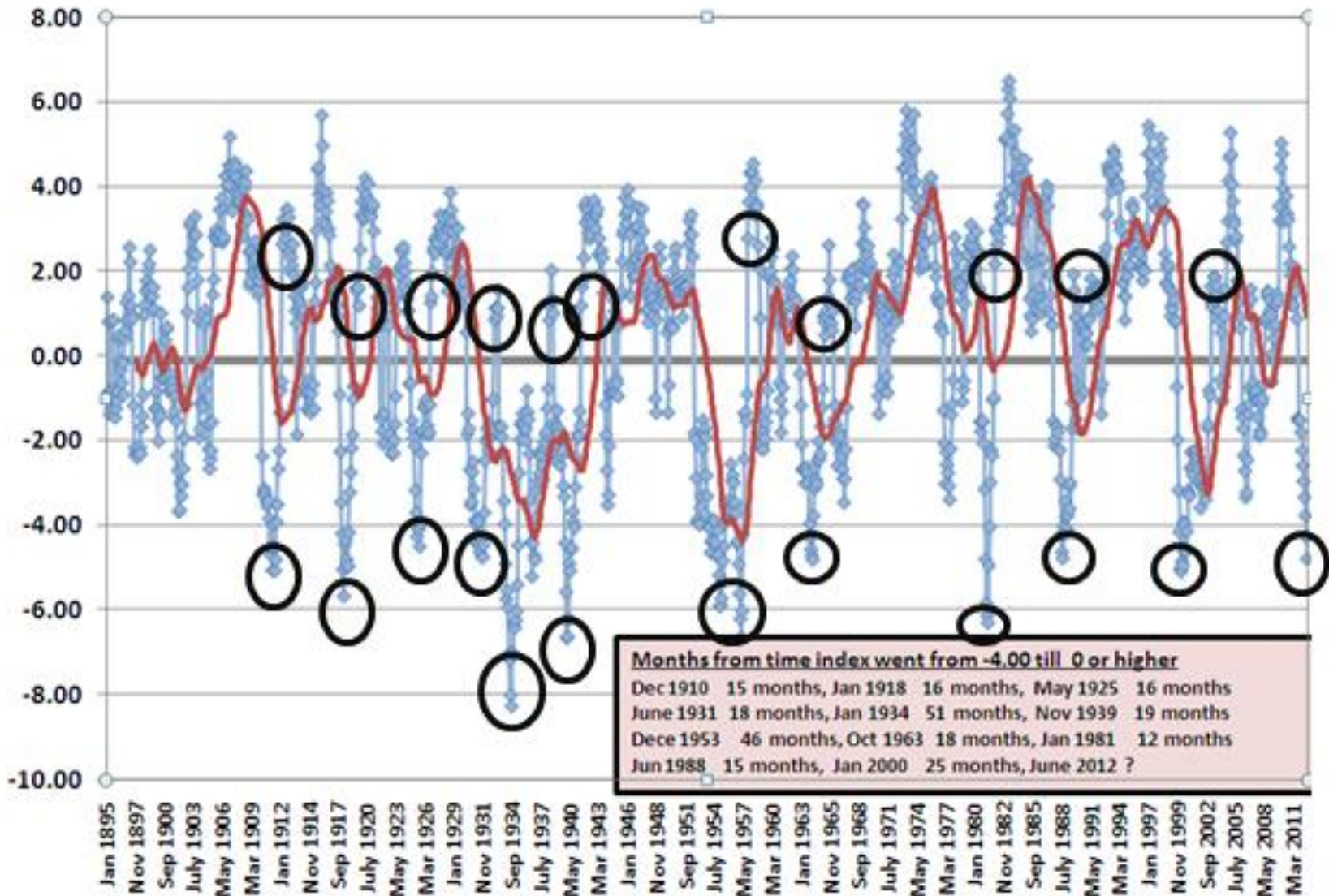
Drought Severity Index by Division
 Weekly Value for Period Ending DEC 1, 2012
 Long Term Palmer



- 4.0 or less (Extreme Drought)
- 3.0 to -3.9 (Severe Drought)
- 2.0 to -2.9 (Moderate Drought)
- 1.9 to +1.9 (Near Normal)

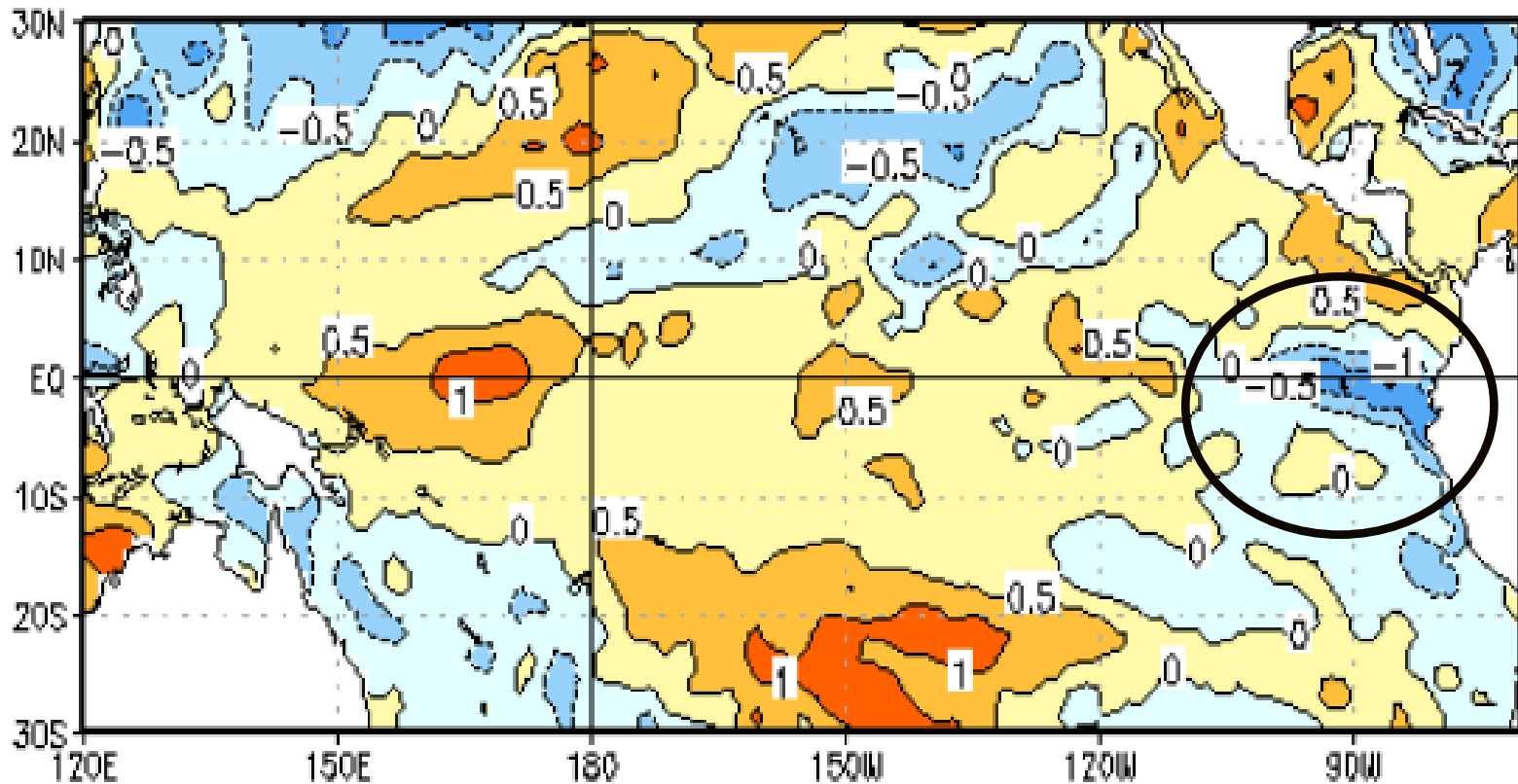
- +2.0 to +2.9 (Unusual Moist Spell)
- +3.0 to +3.9 (Very Moist Spell)
- +4.0 and above (Extremely Moist)

Drought Timelines



Drought Timelines

Average SST Anomalies
4 NOV 2012 – 1 DEC 2012



Cool area off South Am—possible La Nina sign.

Australia SOI

More + than -

Latest Southern Oscillation Index (SOI) values

SOI values for 05 Dec 2012

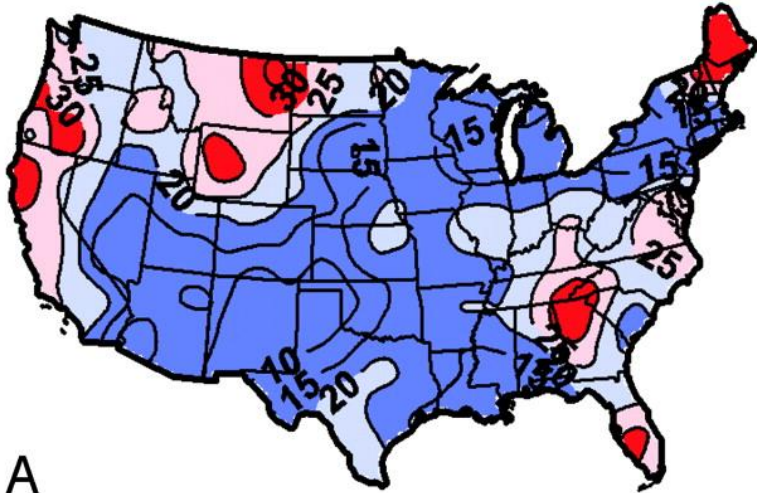
Average for last 30 days	3.6
Average for last 90 days	3.3
Daily contribution to SOI calculation	6.4

Monthly average SOI values

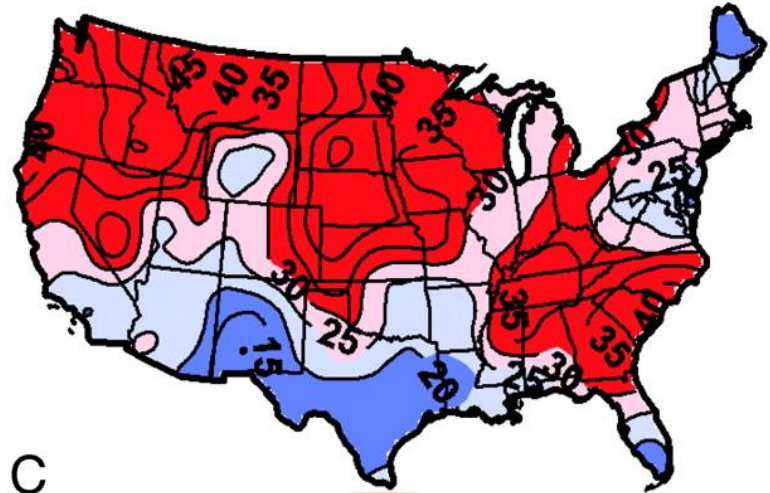
September	3.2
October	2.3
November	3.8

29 Nov 2012	1013.44	1009.30	8.01	3.41	2.99
30 Nov 2012	1014.26	1009.15	14.19	3.79	3.12
1 Dec 2012	1014.35	1009.15	7.68	3.91	3.21
2 Dec 2012	1013.56	1009.40	2.28	3.76	3.33
3 Dec 2012	1013.33	1009.00	3.16	3.60	3.41
4 Dec 2012	1013.24	1008.55	5.03	3.60	3.41
5 Dec 2012	1013.01	1008.05	6.43	3.56	3.33

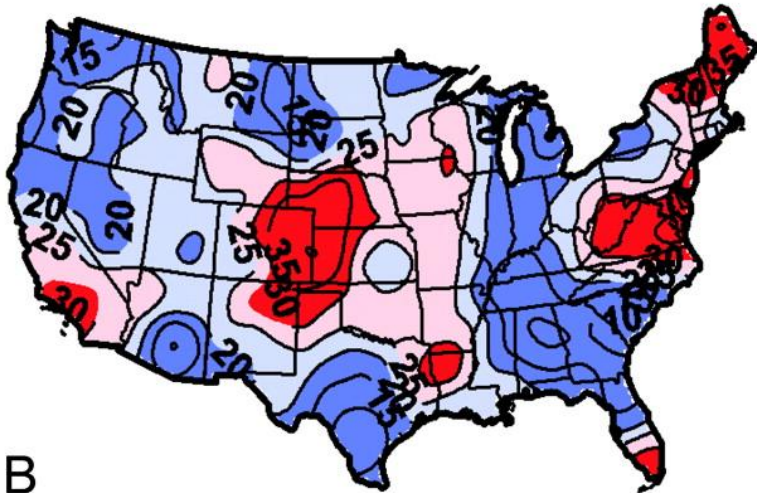
PDO & AMO—and Drought



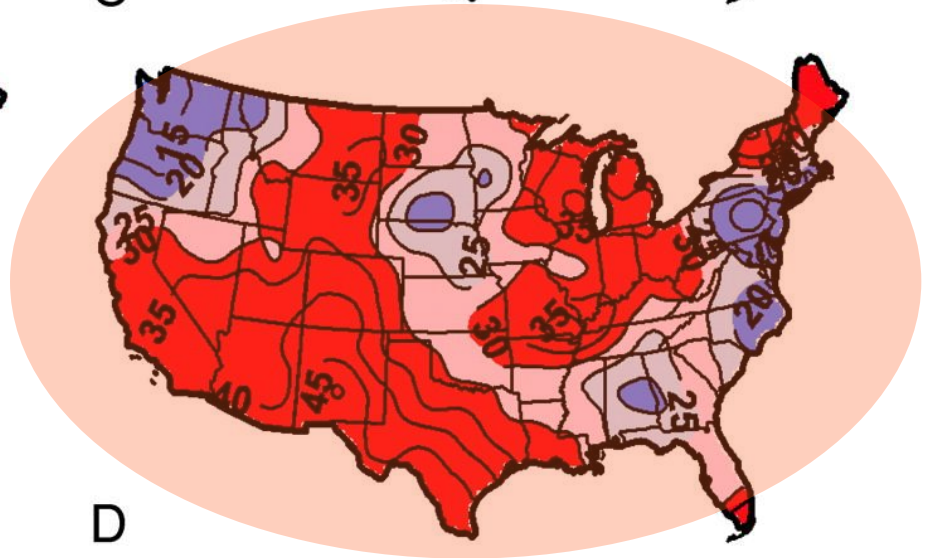
A



C

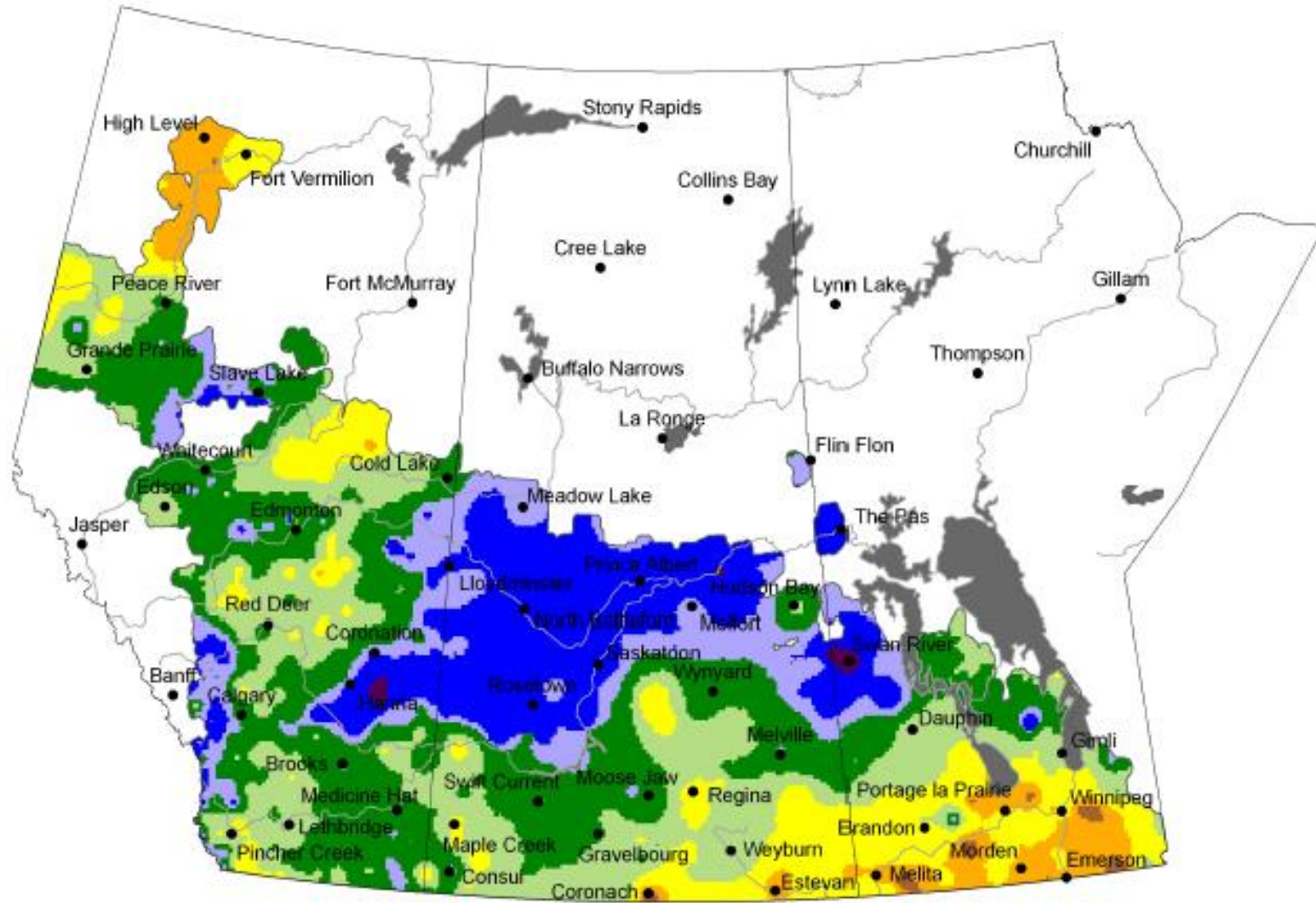


B

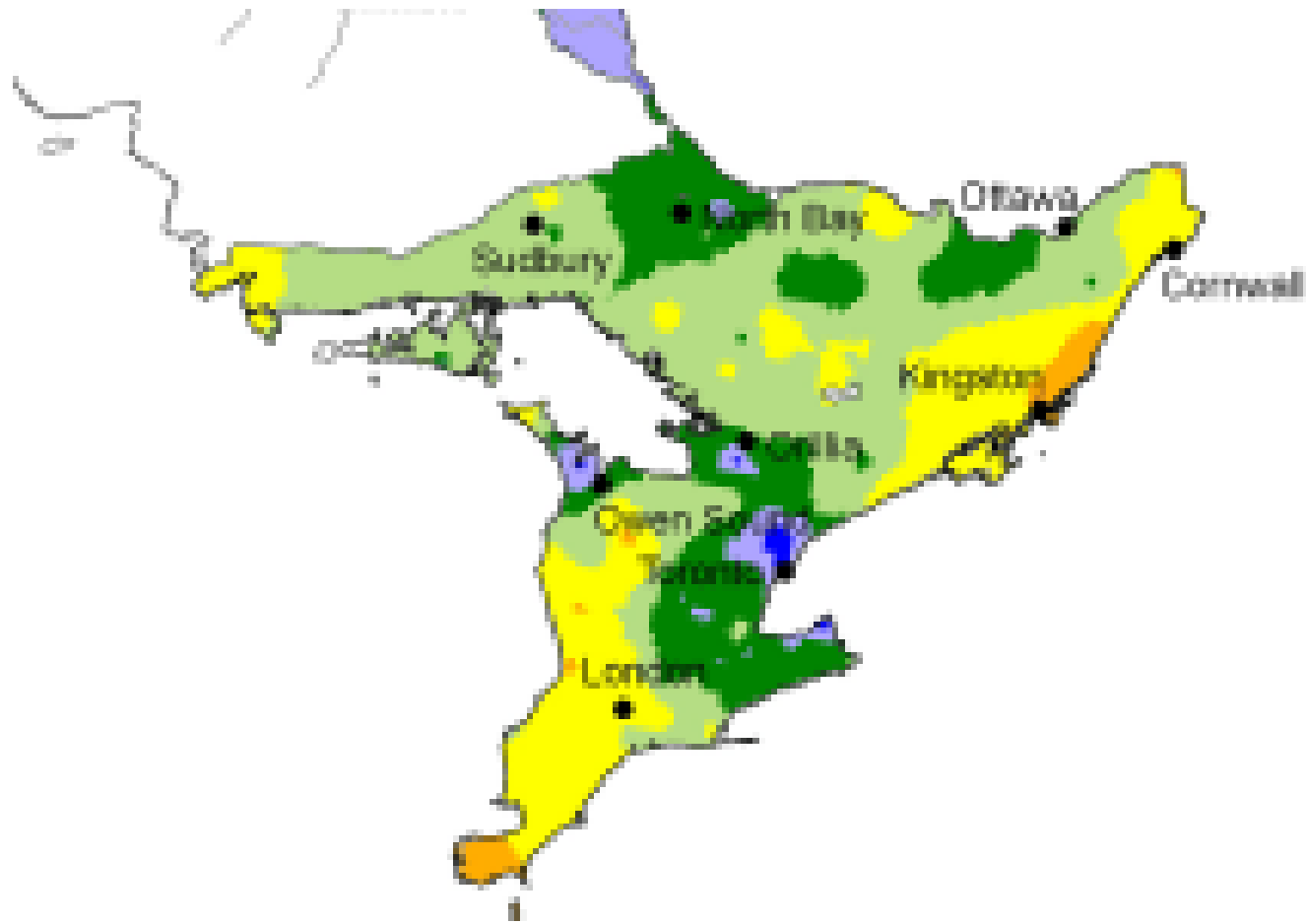


D

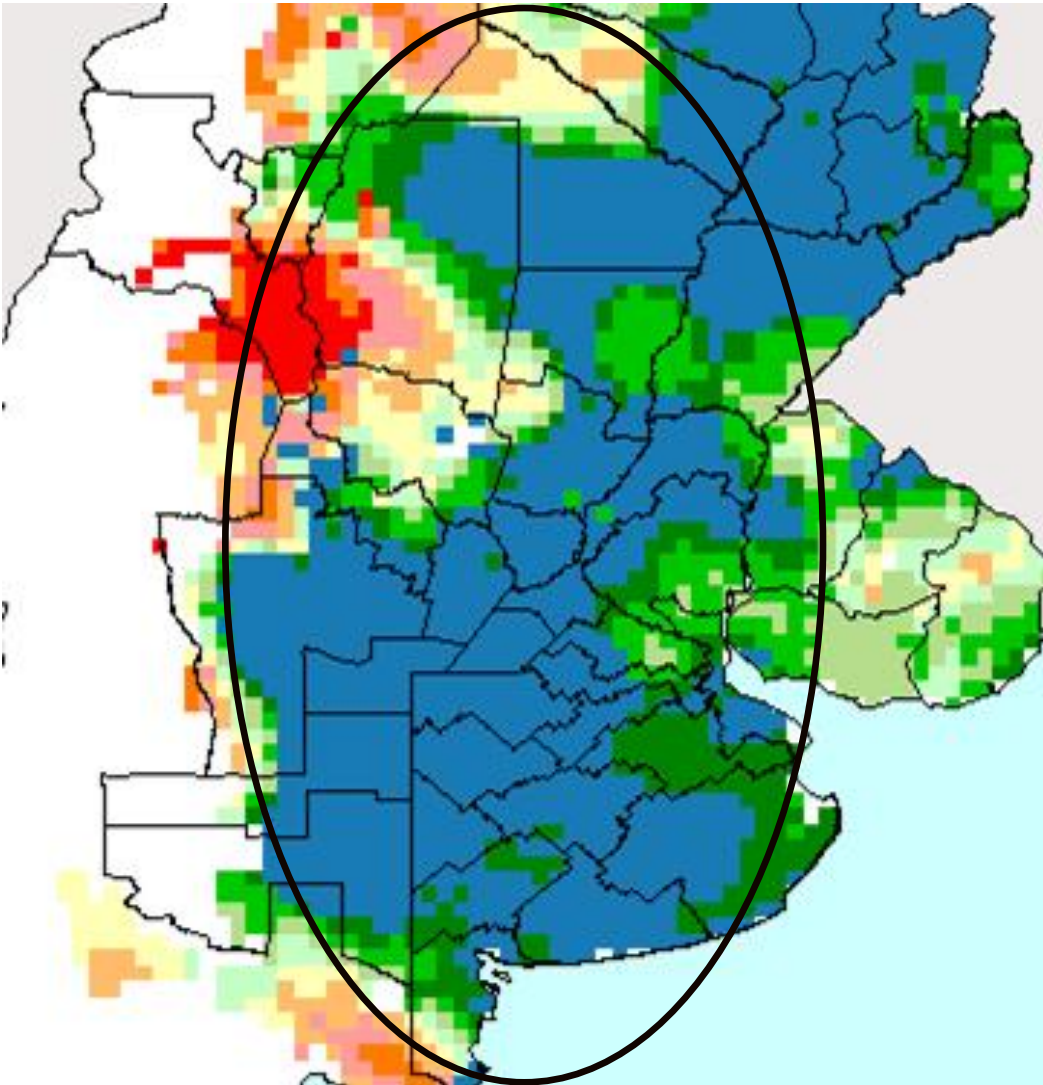
Prairie Moisture



Ontario Moisture

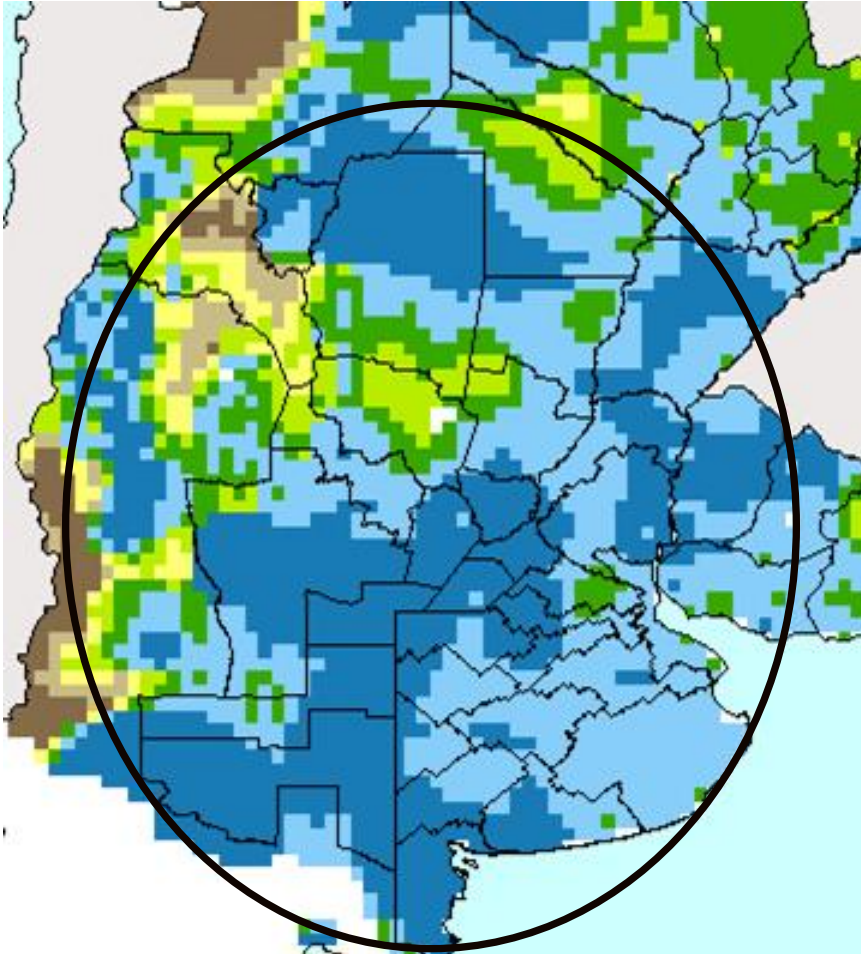


Argentina Soil Moisture

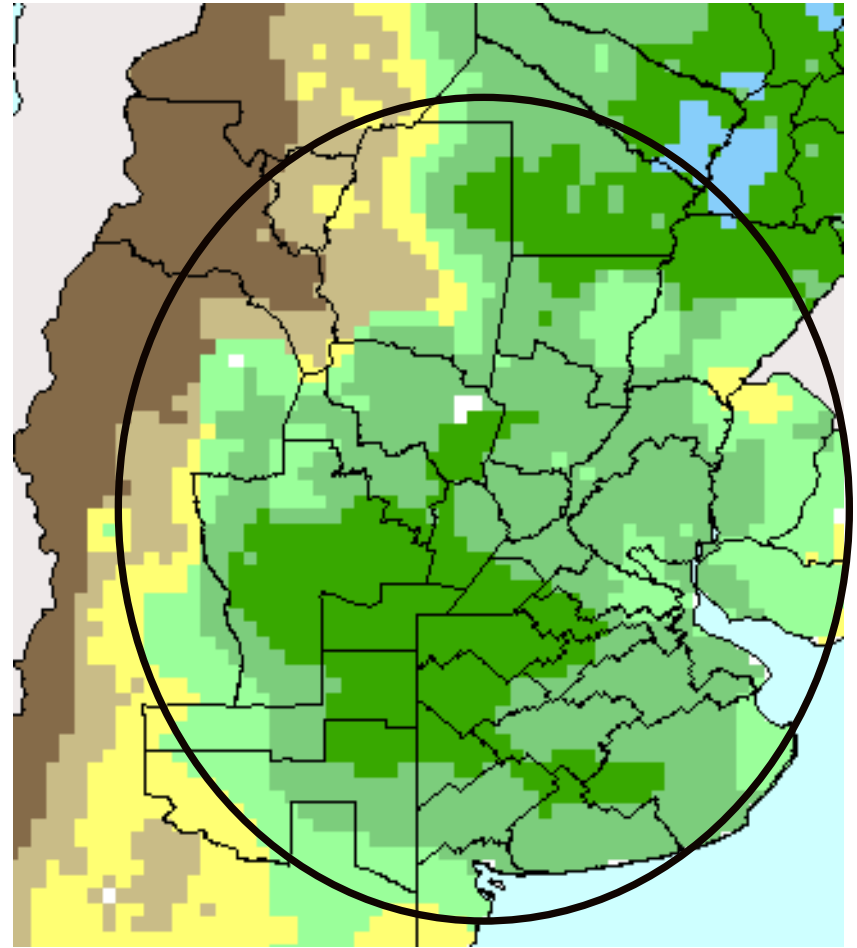


Saturated almost all areas. Corn planting a month late. Weed spraying a huge issue.

Argentina Rainfall

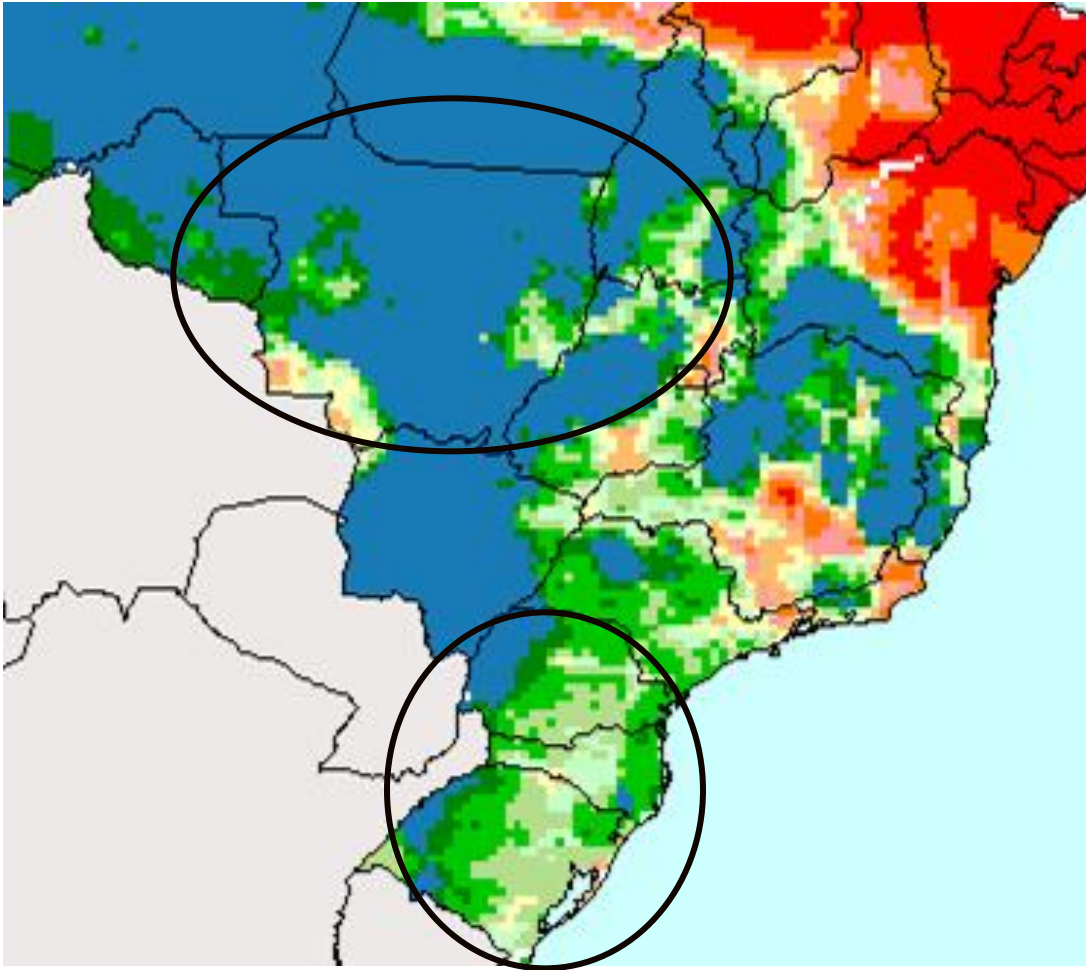


Seasonal



Late Nov

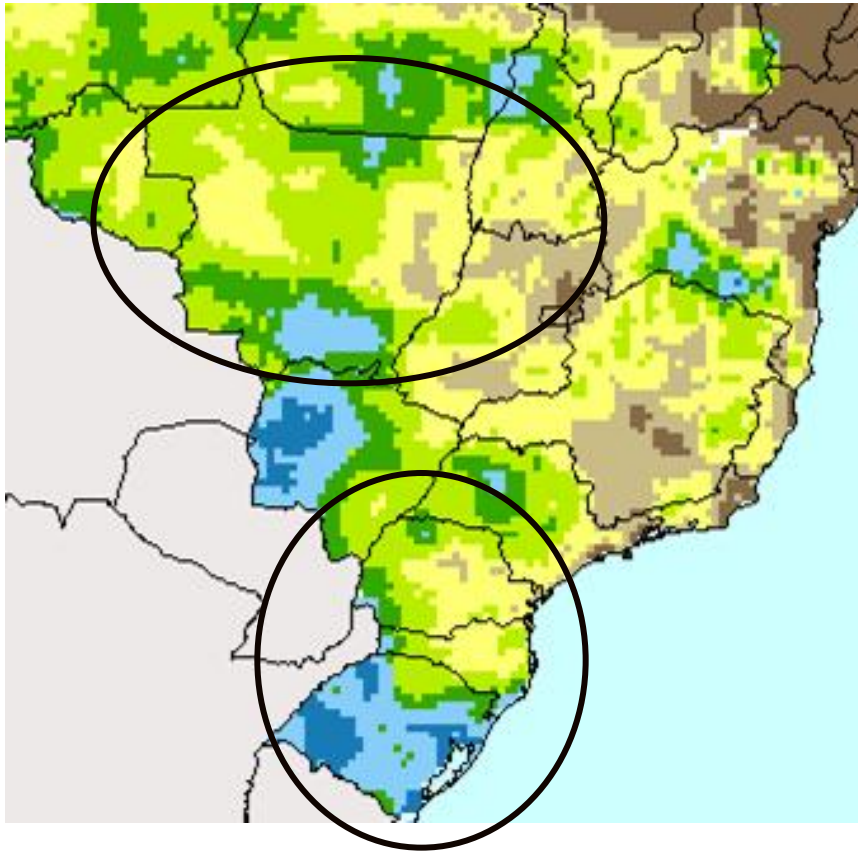
Brazil Soil Moisture



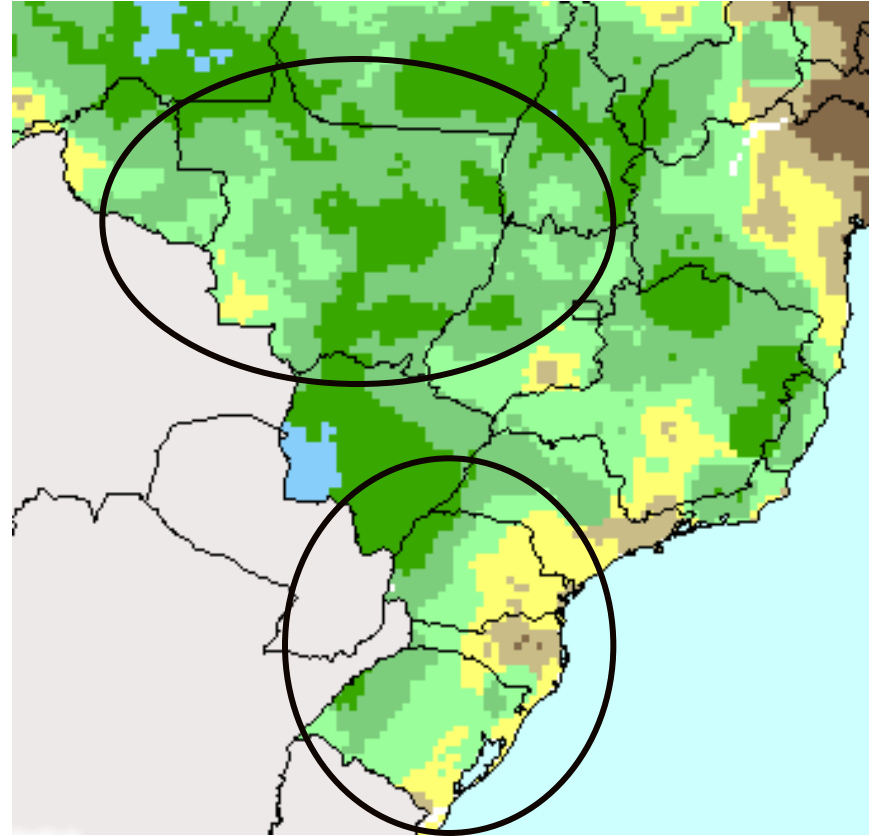
Favorable
supplies
Mato Grosso.

Some short
supplies
Parana &
RGDS.

Brazil Rainfall

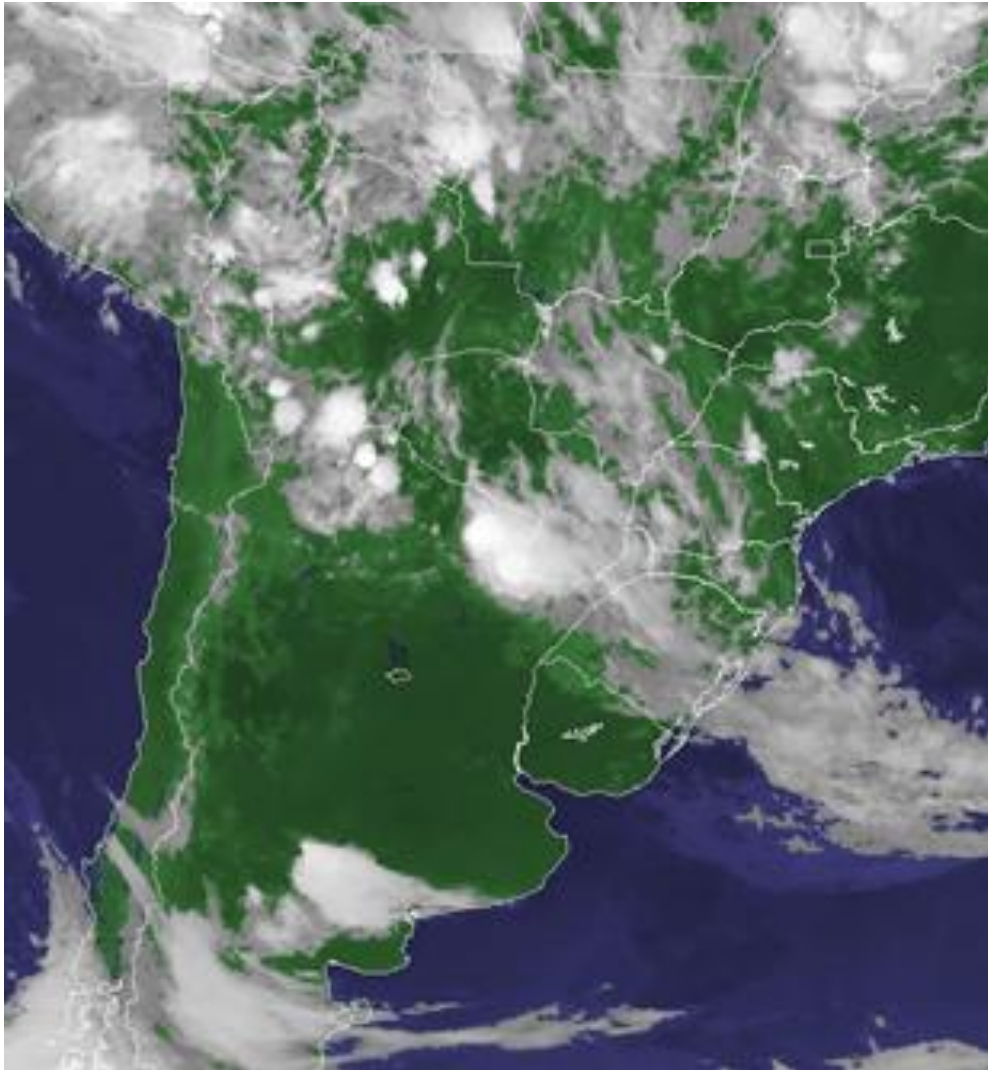


Seasonal

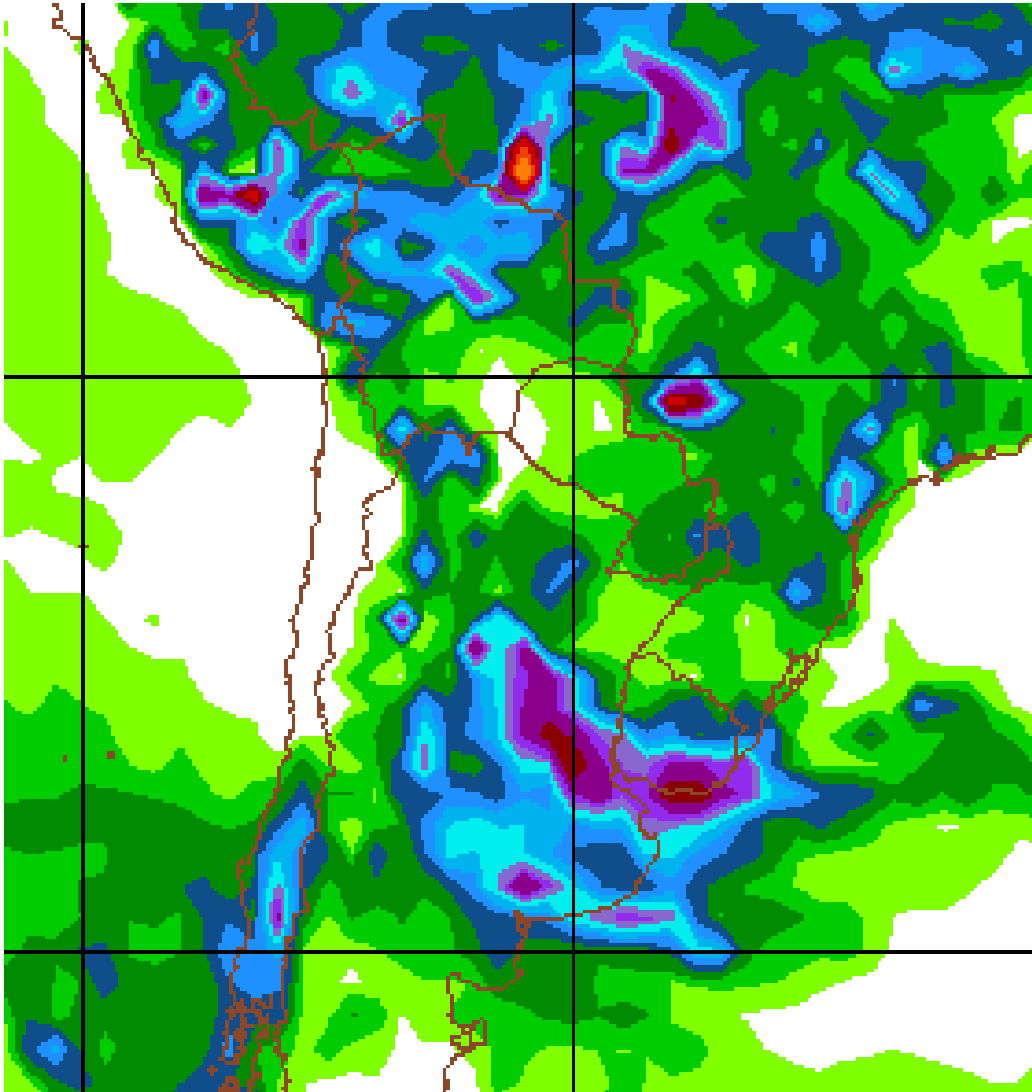


Late Nov

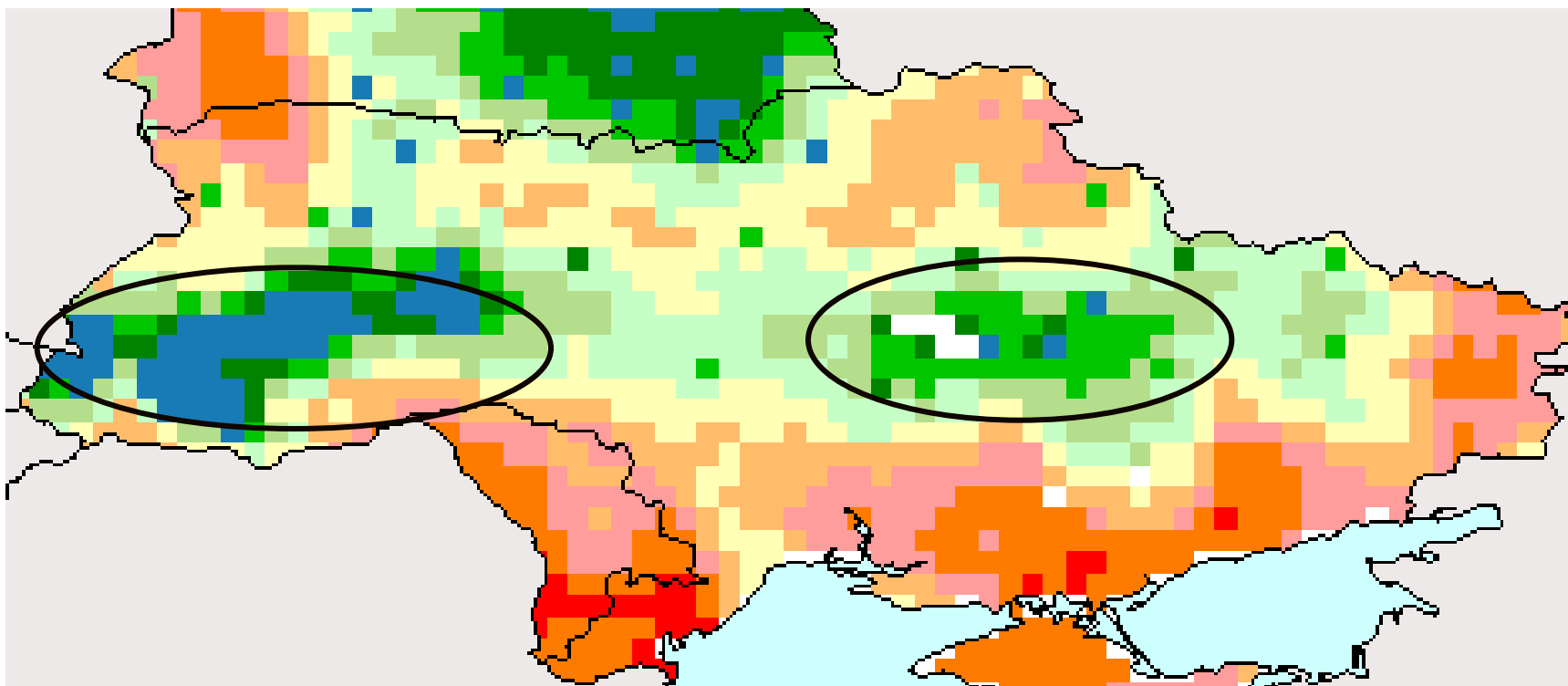
South Am Satellite



South Am Forecast

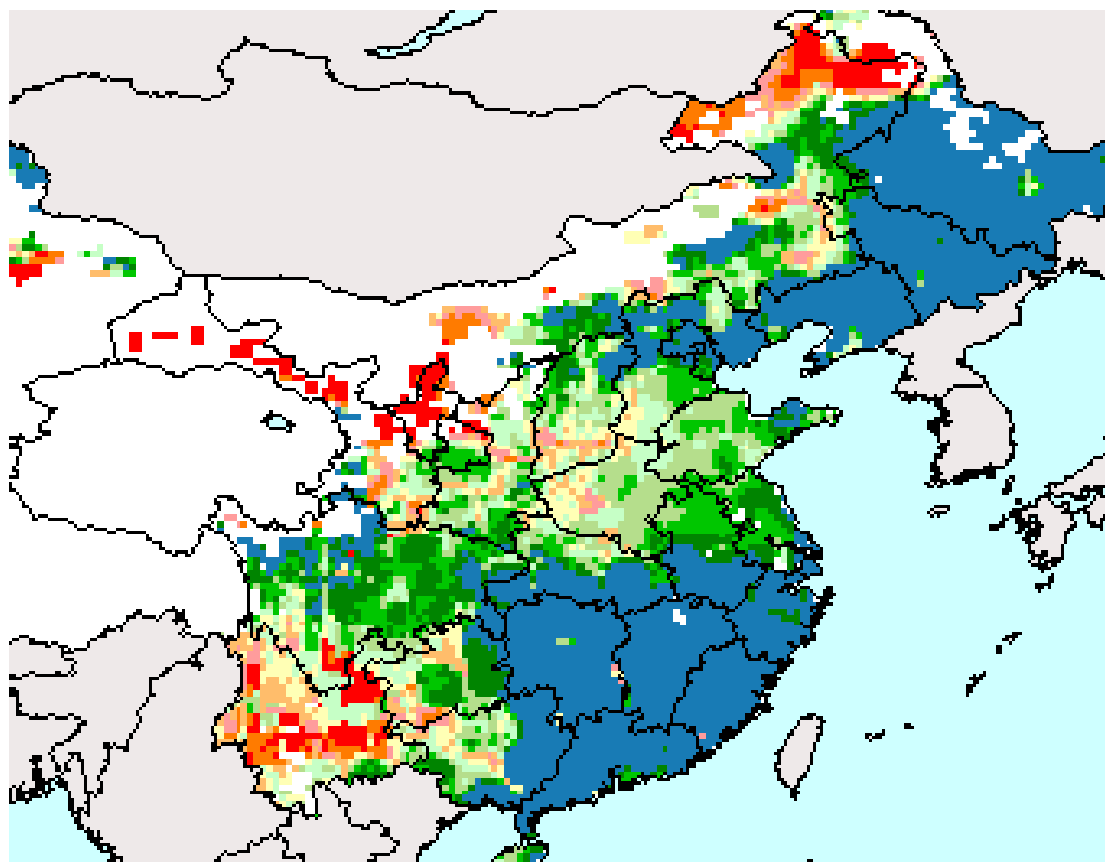


Ukraine Soil Moisture



Limited adequate supplies.

China Soil Moisture



Generally adequate supplies.



For more information:

Visit: <http://www.dtn.com>

Email: bryce.anderson@telventdtn.com

Twitter: <http://twitter.com/BAndersonDTN>

Thank you