

# Drought Task Force Summary

## 15 October 2012

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SDSU Extension/AES/ABE

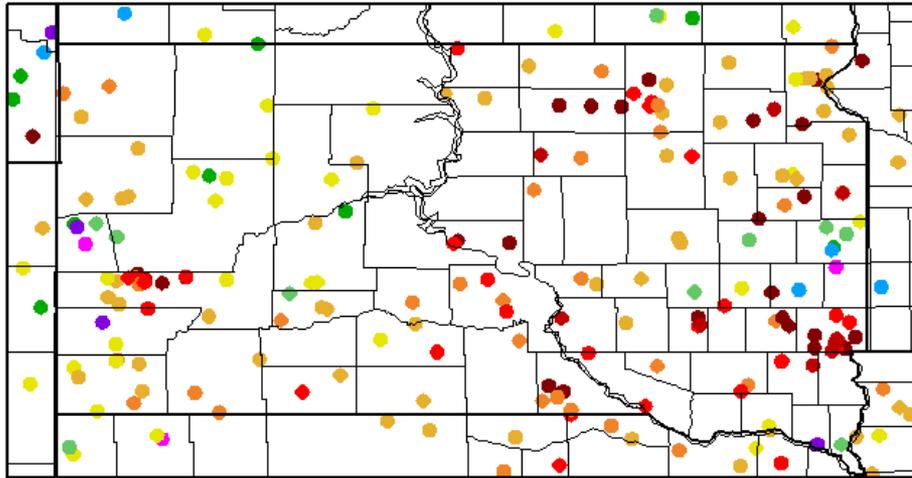


# Drought Issues Summary

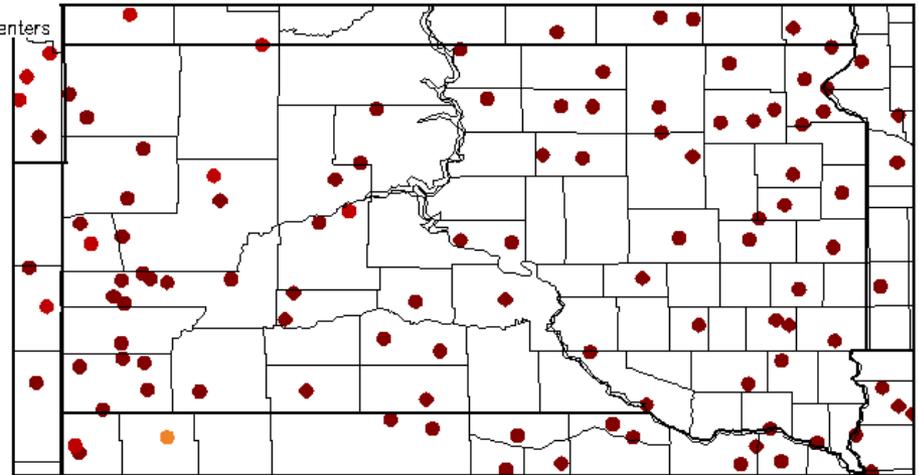
- Conditions
  - Little change
  - DM categories worse statewide
  - No soil moisture recovery
- Outlooks
  - No real significant improvement foreseen
  - Limited fall recovery still possible
  - New outlooks coming Thursday



Precipitation (in)  
9/15/2012 - 10/14/2012



Percent of Normal Precipitation (%)  
9/15/2012 - 10/14/2012



Generated 10/15/2012 at HPRCC using provisional data.

Regional Climate Centers

Many stations with records. Most stations fall in the top 10-15 driest for last 30 days.

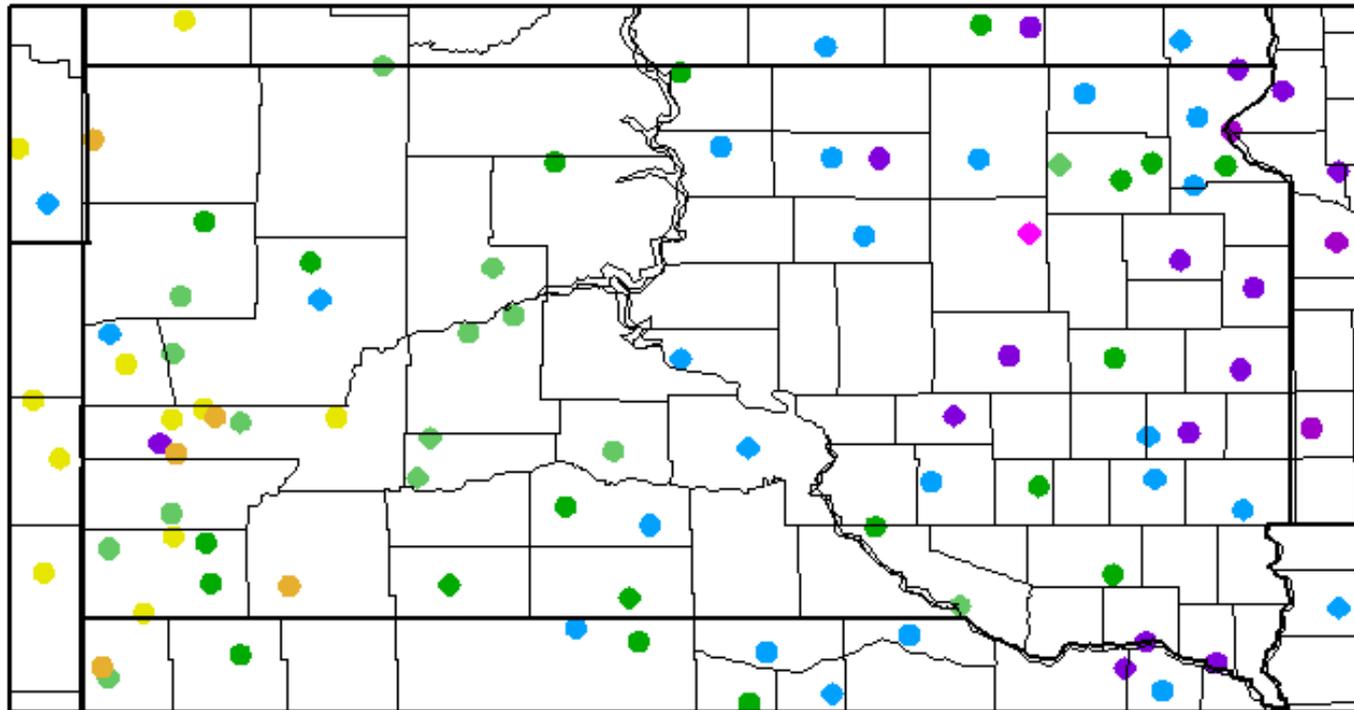
Generated 10/15/2012 at HPRCC using provisional data.

Regional Climate Centers



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

# Departure from Normal Temperature (F) 9/15/2012 - 10/14/2012



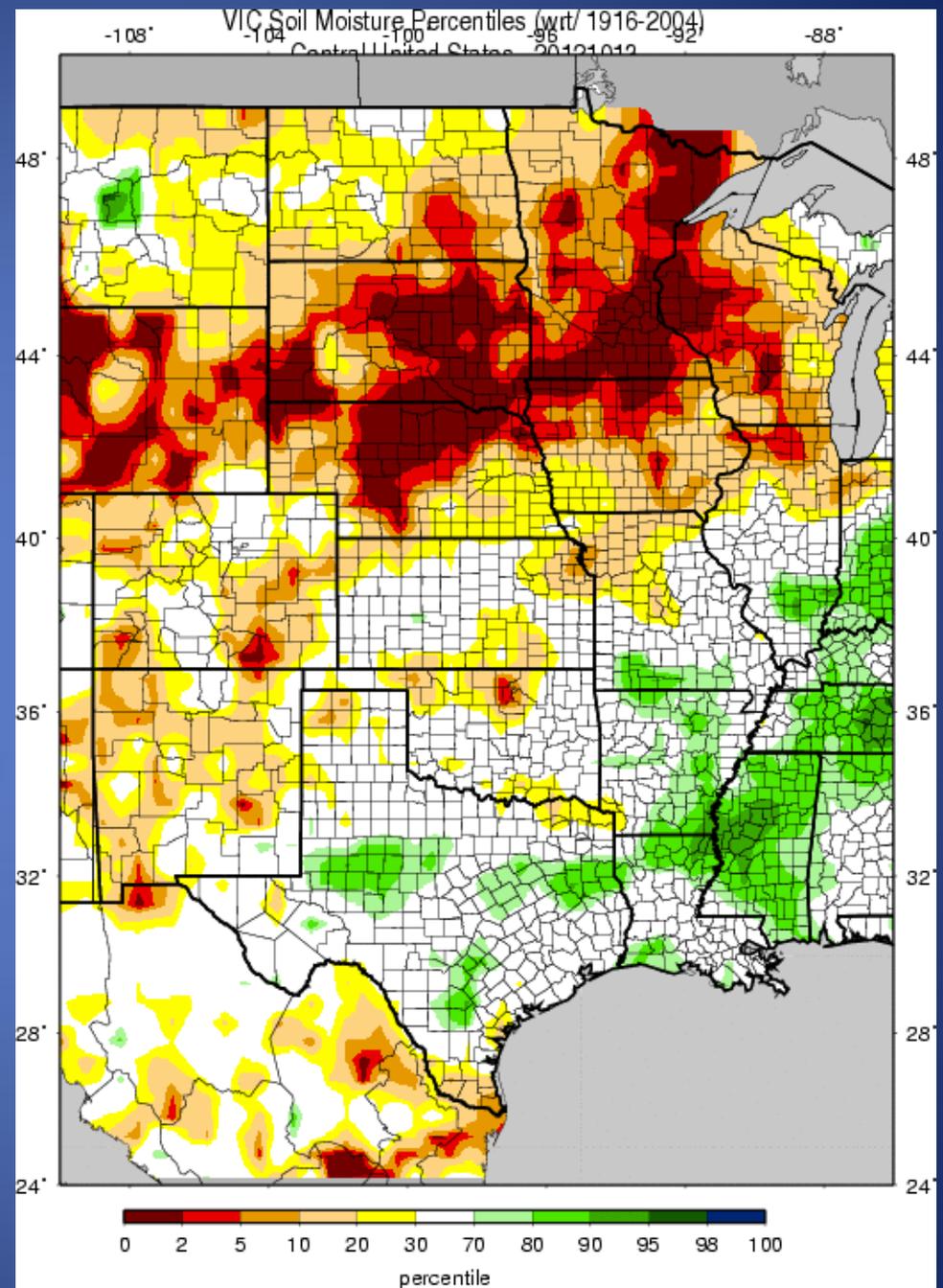
Generated 10/15/2012 at HPRCC using provisional data.

Regional Climate Centers



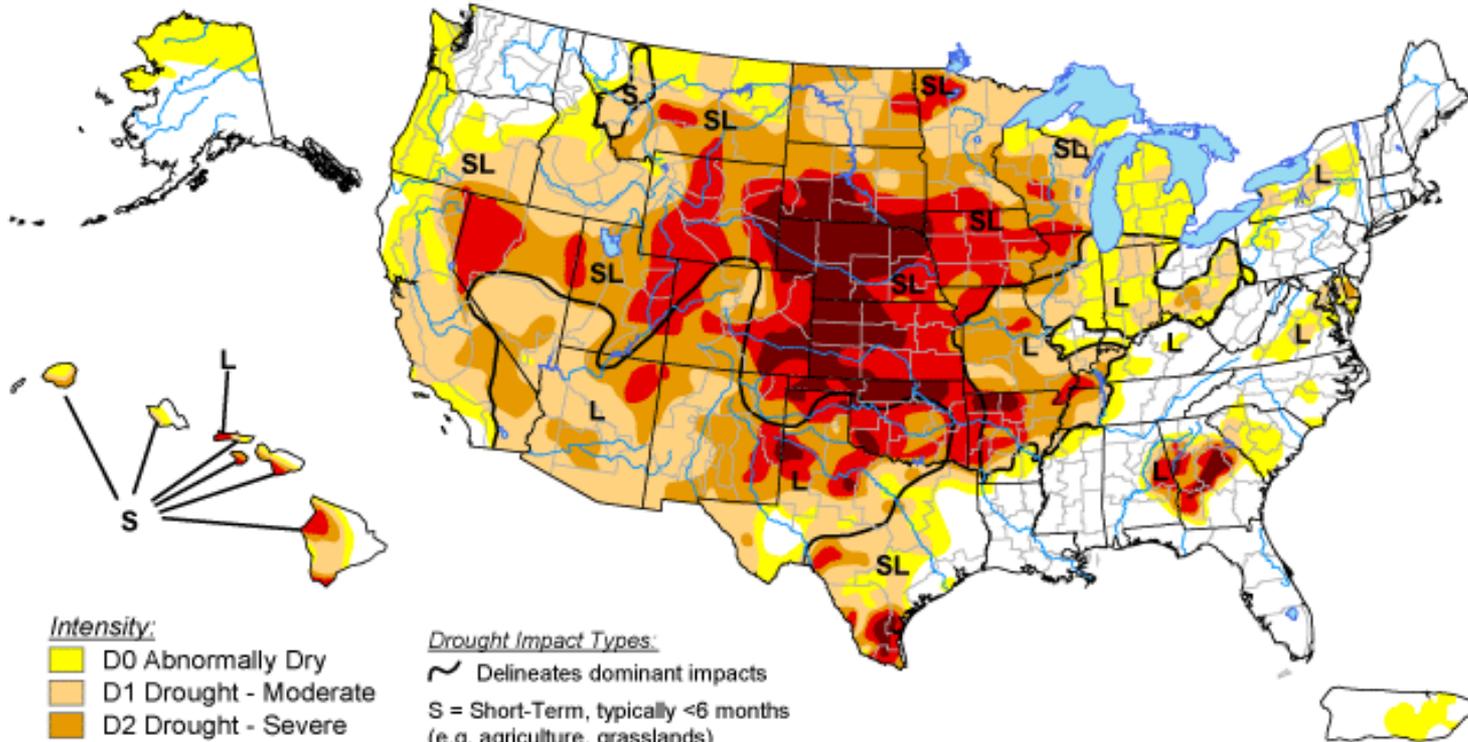
Hard freeze has occurred everywhere  
statewide

# Univ. of Washington Soil Moisture Model



# U.S. Drought Monitor

October 9, 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, October 11, 2012

Author: Matthew Rosencrans, NOAA/NWS/NCEP/CPC



# U.S. Drought Monitor

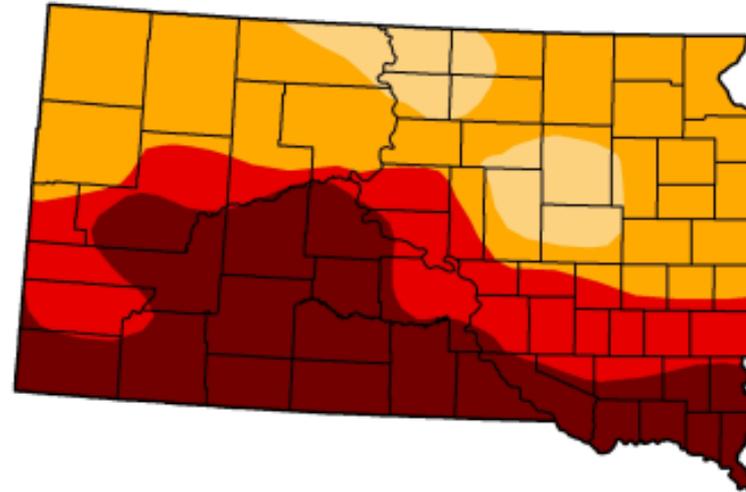
## South Dakota

October 9, 2012

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	100.00	91.39	52.65	32.57
Last Week (10/02/2012 map)	0.00	100.00	100.00	82.30	50.48	27.00
3 Months Ago (07/10/2012 map)	0.00	100.00	77.46	19.37	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 (09/25/2012 map)	0.00	100.00	100.00	74.69	50.53	6.72
One Year Ago (10/04/2011 map)	66.45	33.55	9.24	0.00	0.00	0.00



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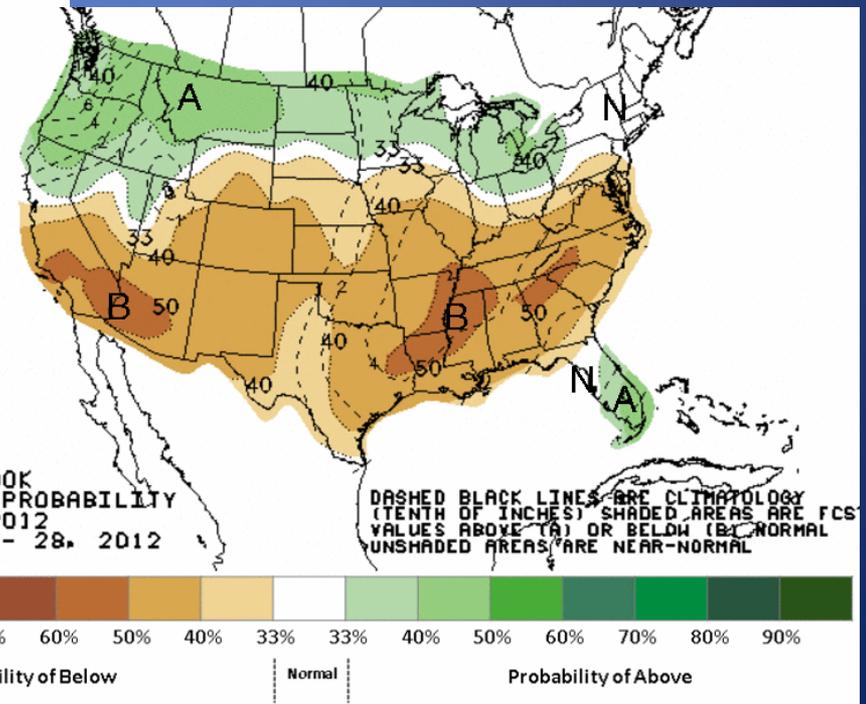
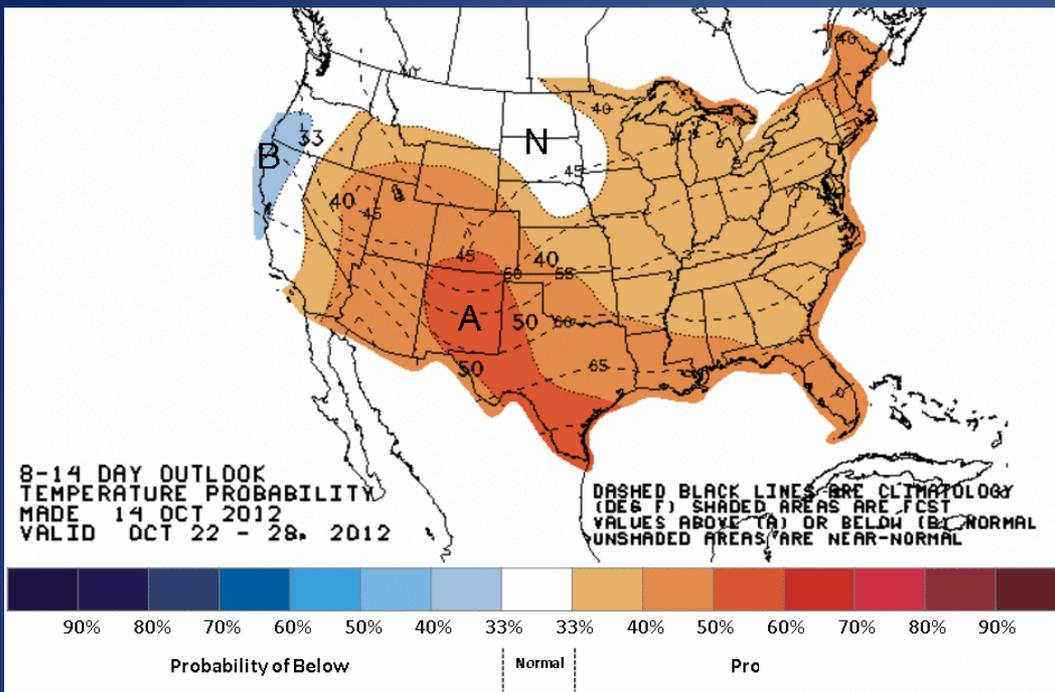


Most D4 we have ever seen in SD in the time of the Drought Monitor. 53% of state in D3-D4.

# 8-14 day

# Temperature

# Precipitation

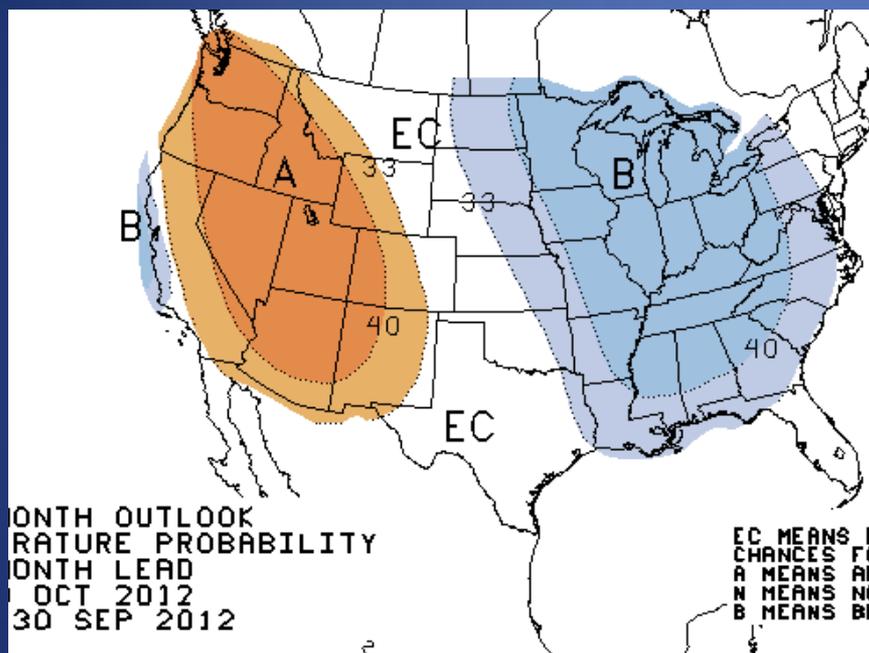


<http://www.cpc.ncep.noaa.gov>

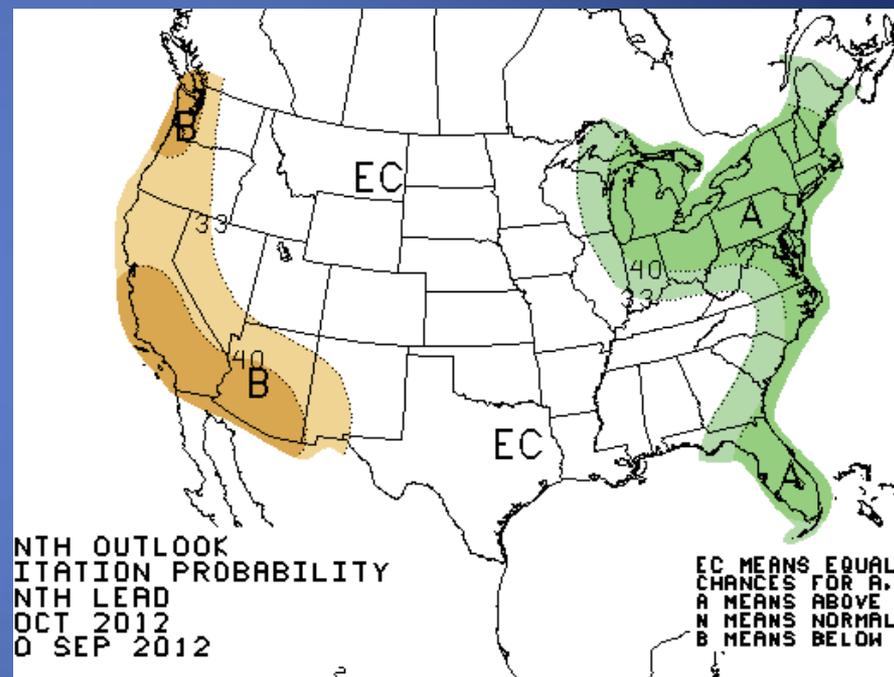
Issued daily

# October Temperature and Precipitation Probabilities

*New ones coming Thursday*



Temperature

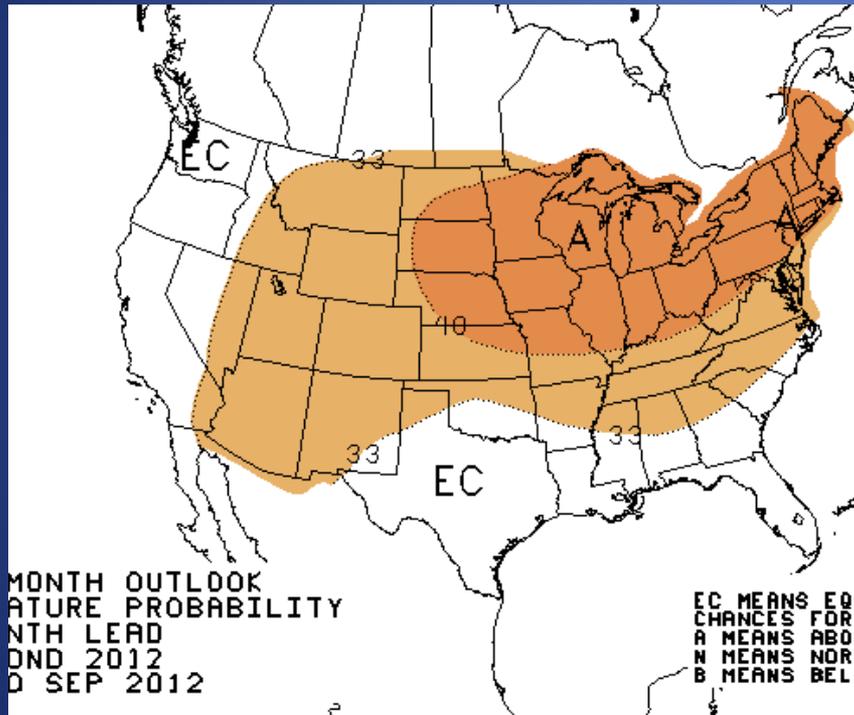


Precipitation

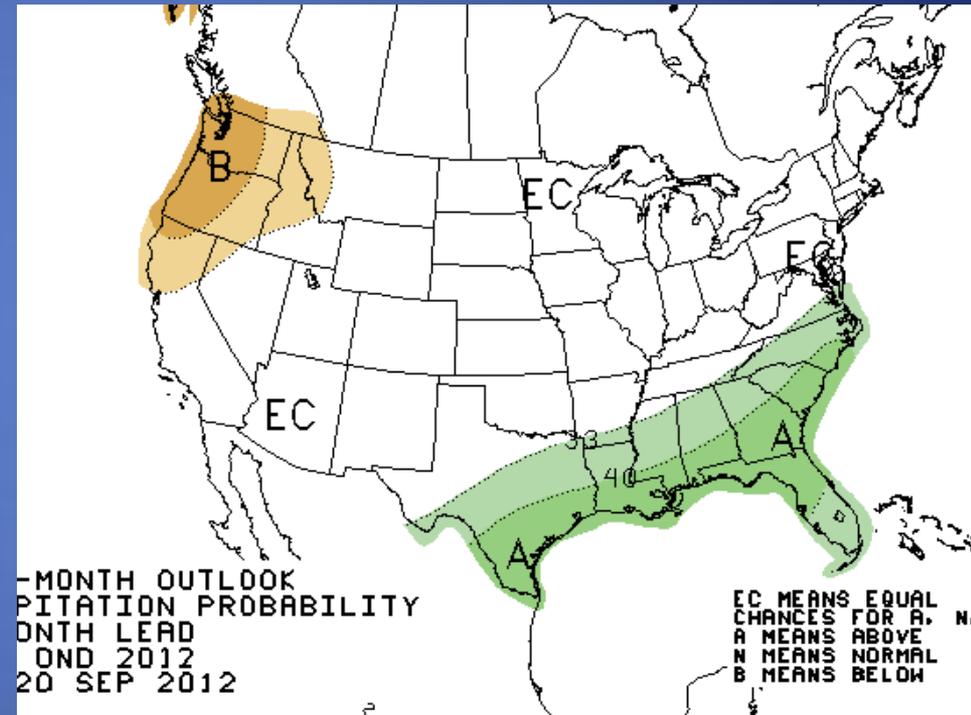
# 3 Month Temperature and Precipitation Probabilities

(September - November)

*New ones coming Thursday*



Temperature



Precipitation

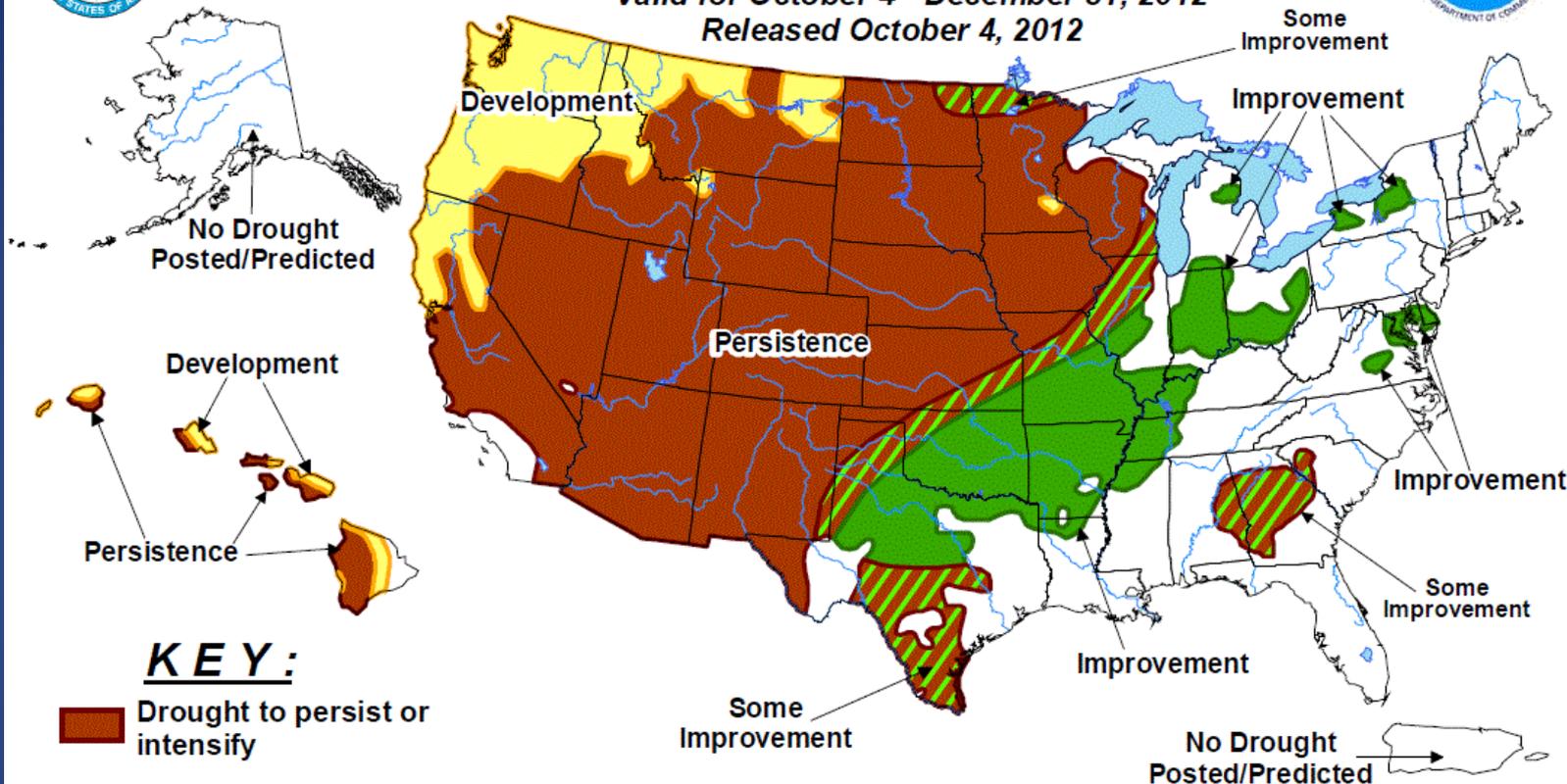
[http://www.cpc.ncep.noaa.gov/products/predictions/long\\_range/seasonal.php?lead=1](http://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=1)



# U.S. Seasonal Drought Outlook

## Drought Tendency During the Valid Period

Valid for October 4 - December 31, 2012  
Released October 4, 2012

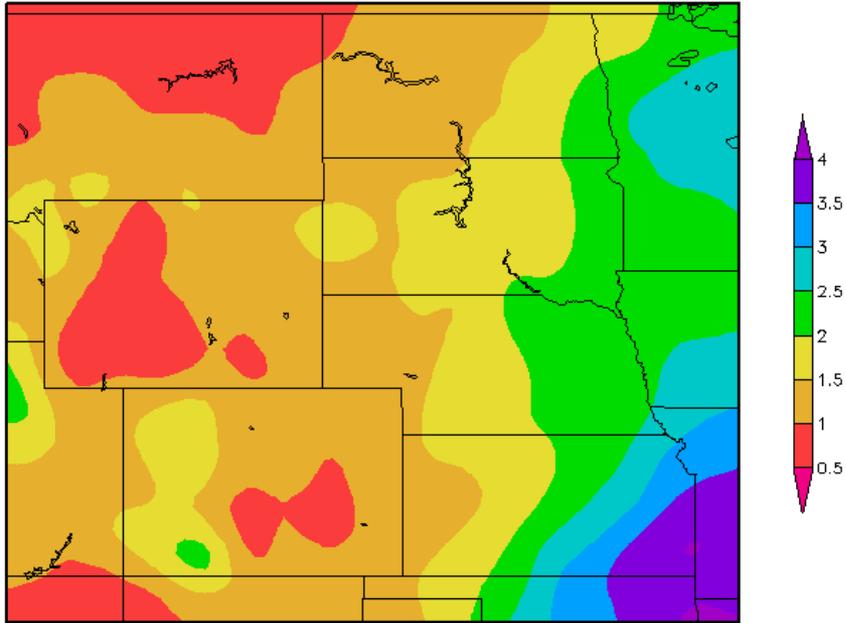


### KEY:

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

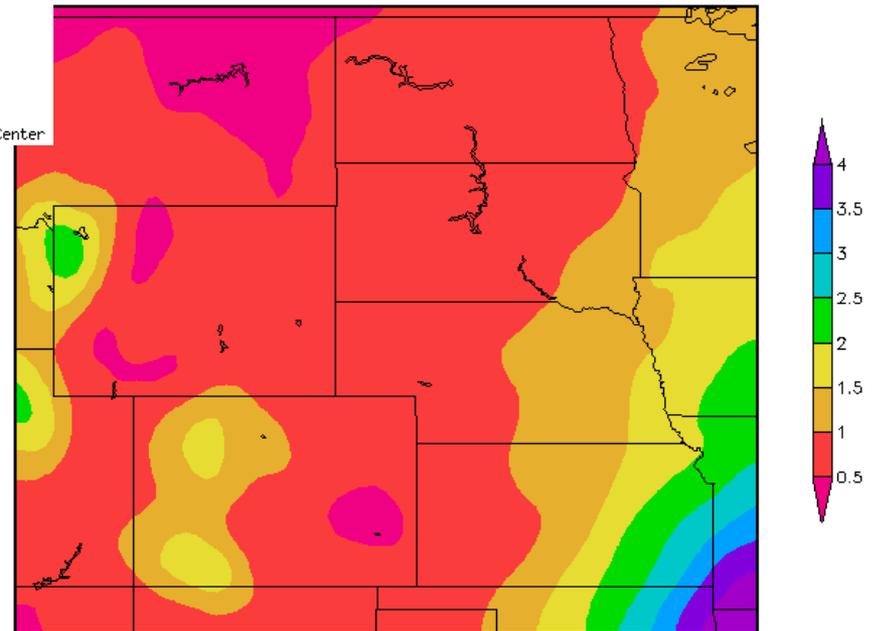
Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- 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.

## October Precipitation (inches)



High Plains Regional Climate Center

## November Precipitation (inches)

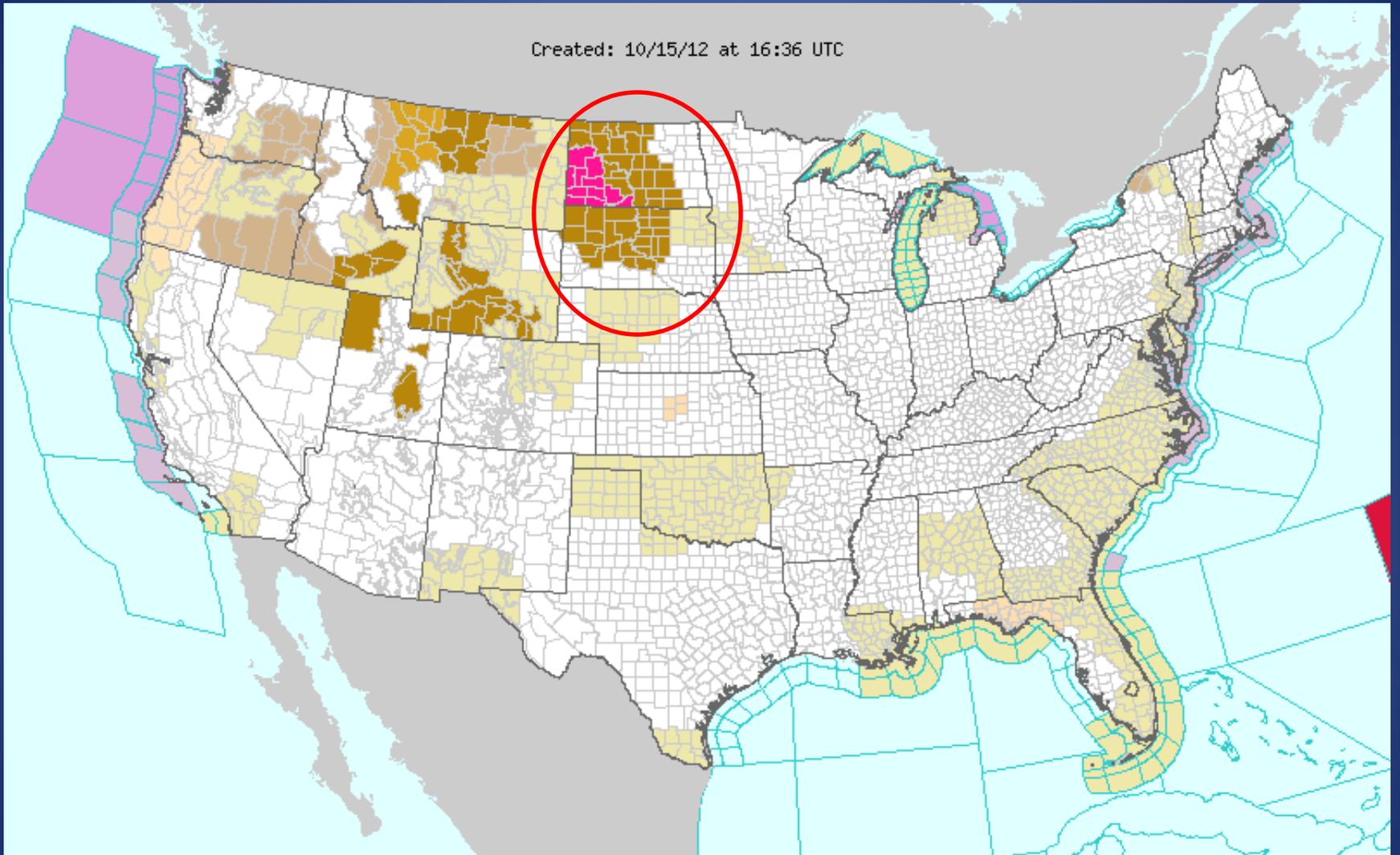


High Plains Regional Climate Center

October and November  
Average Precipitation

Average from now until soil  
freezes is 2" or less generally.

Created: 10/15/12 at 16:36 UTC



High wind watch Wednesday  
Red Flag Warning in ND

# Weather/Fire Outlook

- Red flag warning today – North Dakota
- Cold front passing through Wednesday
- Very strong winds behind front W-Th
- Chance of precip with front. Again not major amounts
- Fairly low RHs again
- Likely to stay in active pattern
  - Lots of systems
  - Not so much moisture



# Drought Outlook Summary

- Still no great chances for precipitation
- Conditions worsening (still)
- Losing opportunity for recovery this fall
- Winter/spring still question marks
- Less chance for El Nino
- Will carry over impacts into next year without question.
- May not see any improvement this fall at this point

