

# Weather Update: Will the Drought Persist

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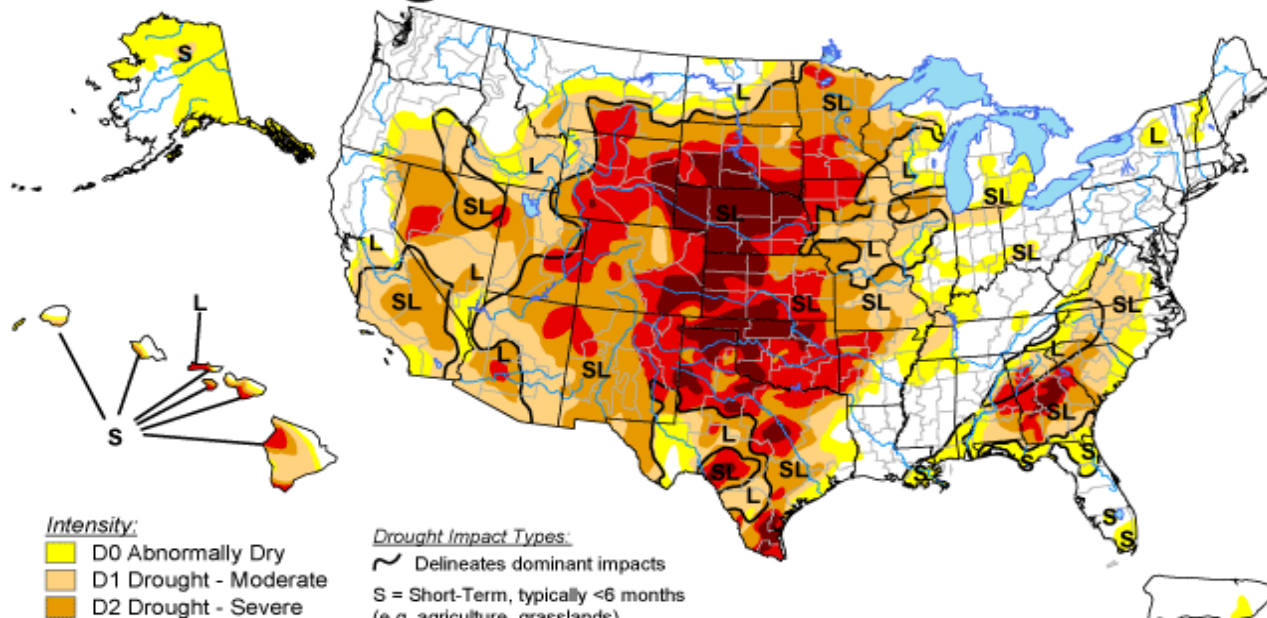
402-472-5206



# Current Drought Monitor

## U.S. Drought Monitor

January 8, 2013  
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, January 10, 2013

Author: David Simeral, Western Regional Climate Center

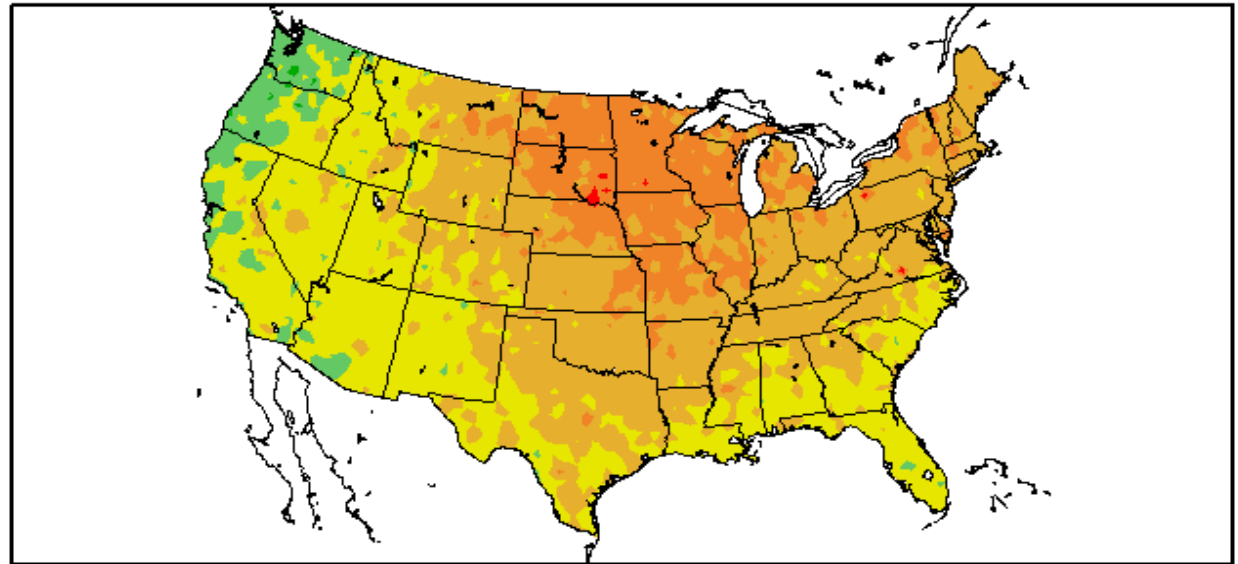


# Temperature Trends



# Average Temperature Departure Warm Season Crops

Departure from Normal Temperature (F)  
10/1/2011 – 9/30/2012



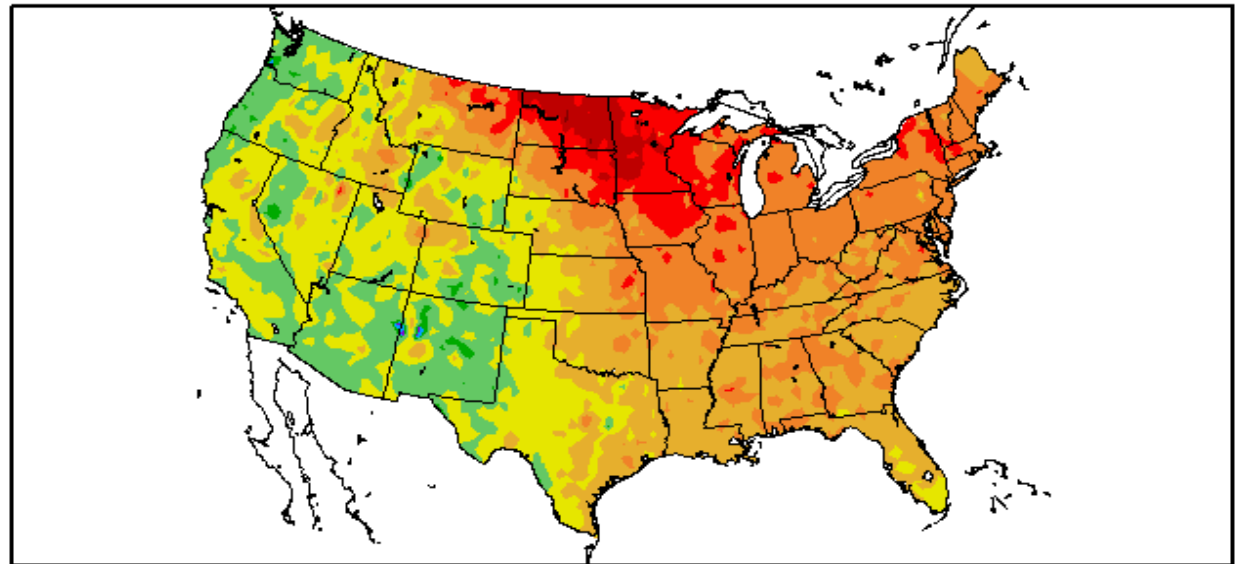
Generated 10/11/2012 at HPRCC using provisional data.

Regional Climate Centers



# Average Temperature Departure Winter 2011-2012

Departure from Normal Temperature (F)  
12/1/2011 – 2/29/2012



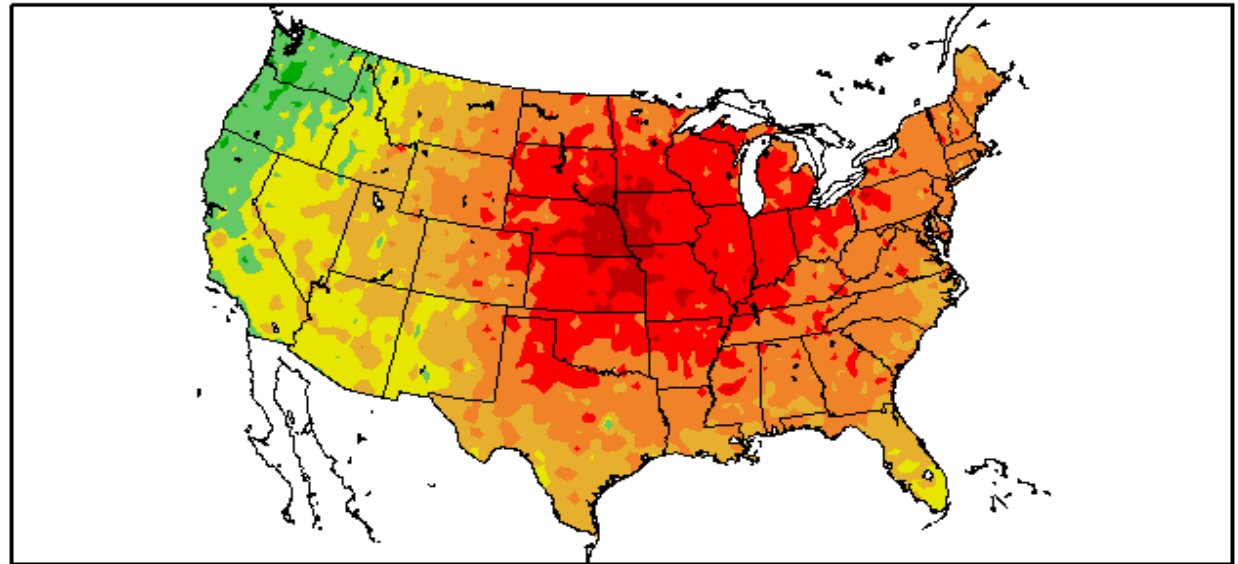
Generated 6/22/2012 at HPRCC using provisional data.

Regional Climate Centers



# Average Temperature Departure Spring 2012

Departure from Normal Temperature (F)  
3/1/2012 – 5/31/2012



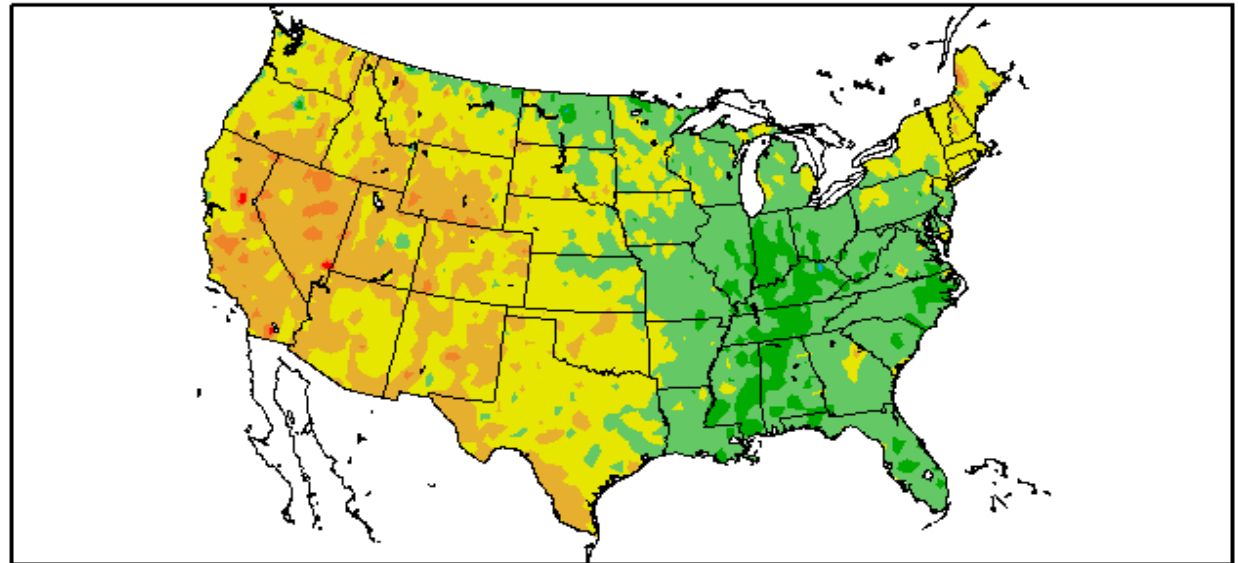
Generated 6/11/2012 at HPRCC using provisional data.

Regional Climate Centers



# Average Temperature Departure Fall 2012

Departure from Normal Temperature (F)  
9/1/2012 – 11/30/2012



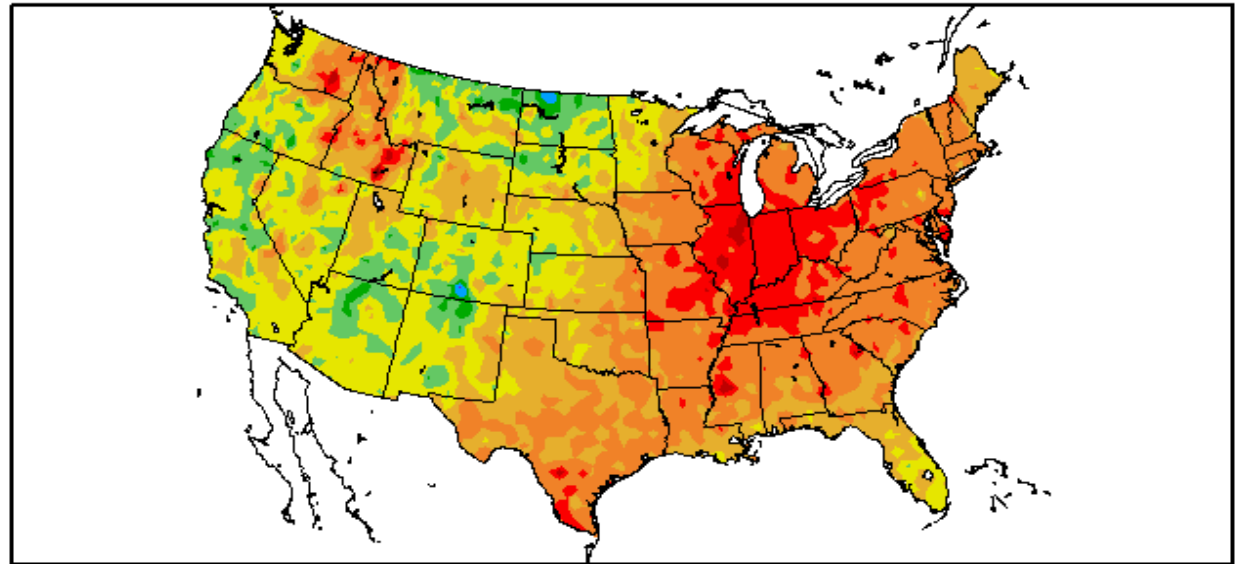
Generated 12/11/2012 at HPRCC using provisional data.

Regional Climate Centers



# December 2012 Temperature Trend

Departure from Normal Temperature (F)  
12/1/2012 – 12/31/2012



Generated 1/11/2013 at HPRCC using provisional data.

Regional Climate Centers



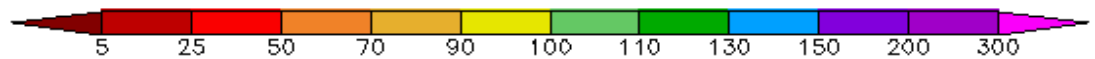
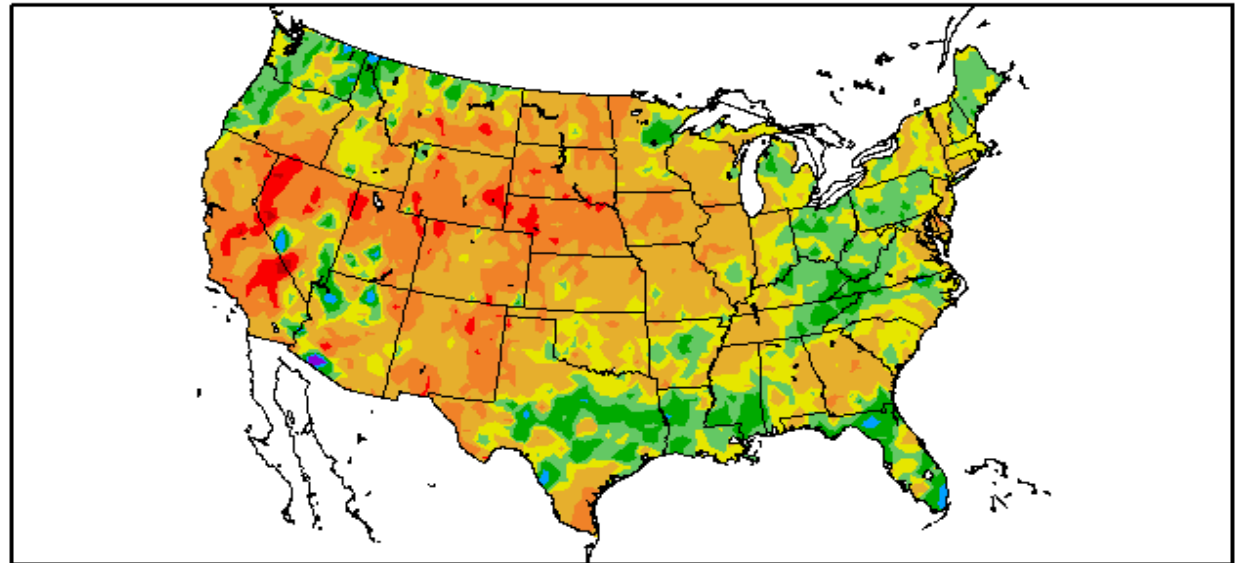


# Precipitation Trends



# Annual Percent of Normal Precipitation Warm Season Crops

Percent of Normal Precipitation (%)  
10/1/2011 – 9/30/2012



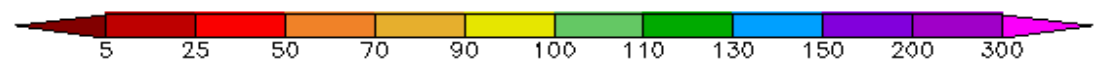
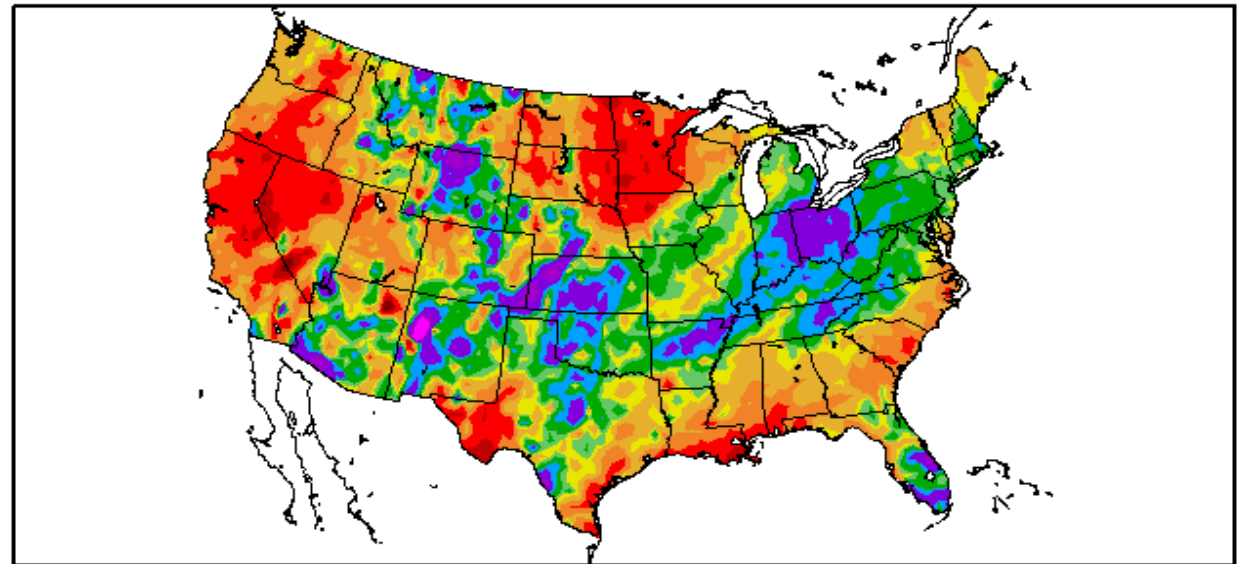
Generated 10/11/2012 at HPRCC using provisional data.

Regional Climate Centers



# 2012 Water Year Trend First 3 Months

Percent of Normal Precipitation (%)  
10/1/2011 – 12/31/2011



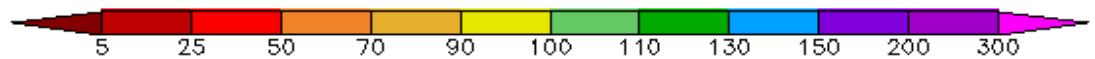
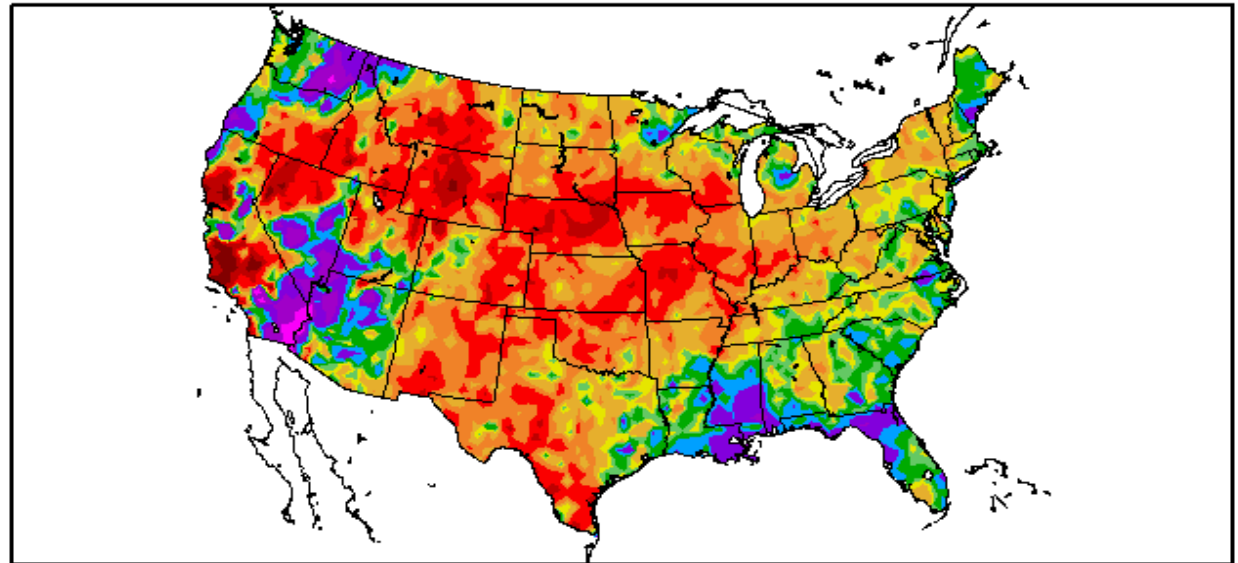
Generated 6/15/2012 at HPRCC using provisional data.

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# Annual Percent of Normal Precipitation Summer 2012

Percent of Normal Precipitation (%)  
6/1/2012 – 8/31/2012



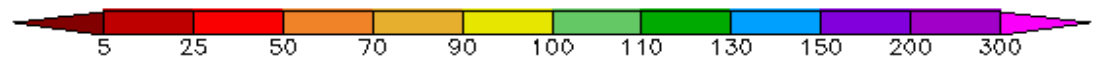
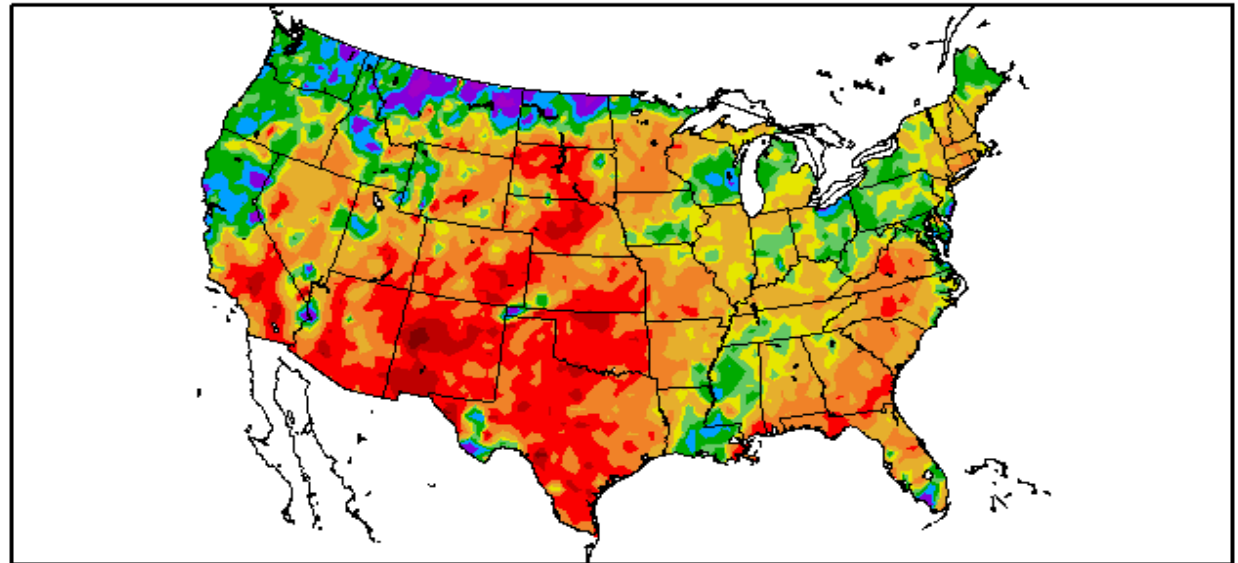
Generated 9/18/2012 at HPRCC using provisional data.

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# Annual Percent of Normal Precipitation Water Year 2013

Percent of Normal Precipitation (%)  
10/1/2012 – 1/13/2013



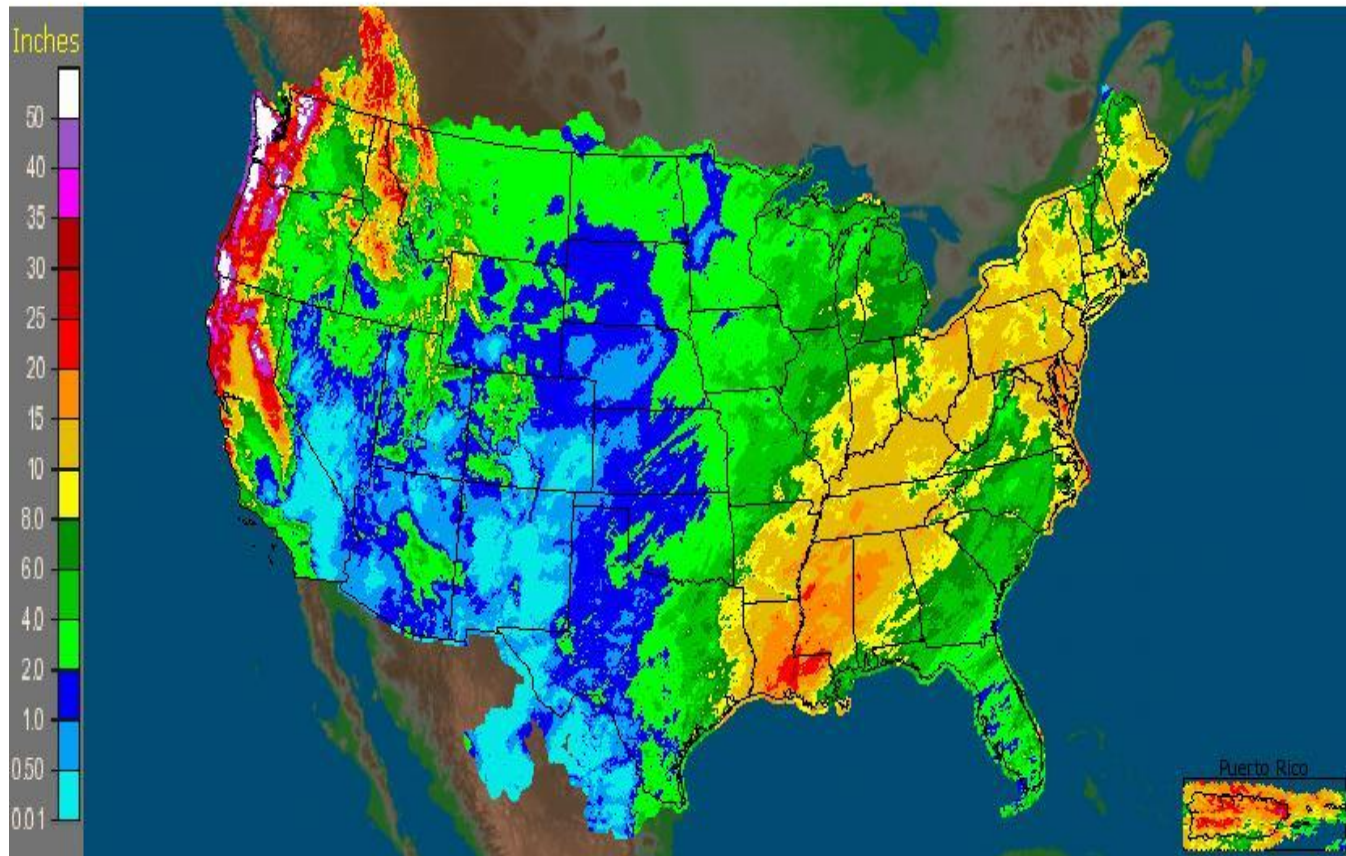
Generated 1/14/2013 at HPRCC using provisional data.

Regional Climate Centers



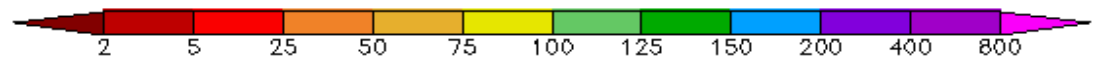
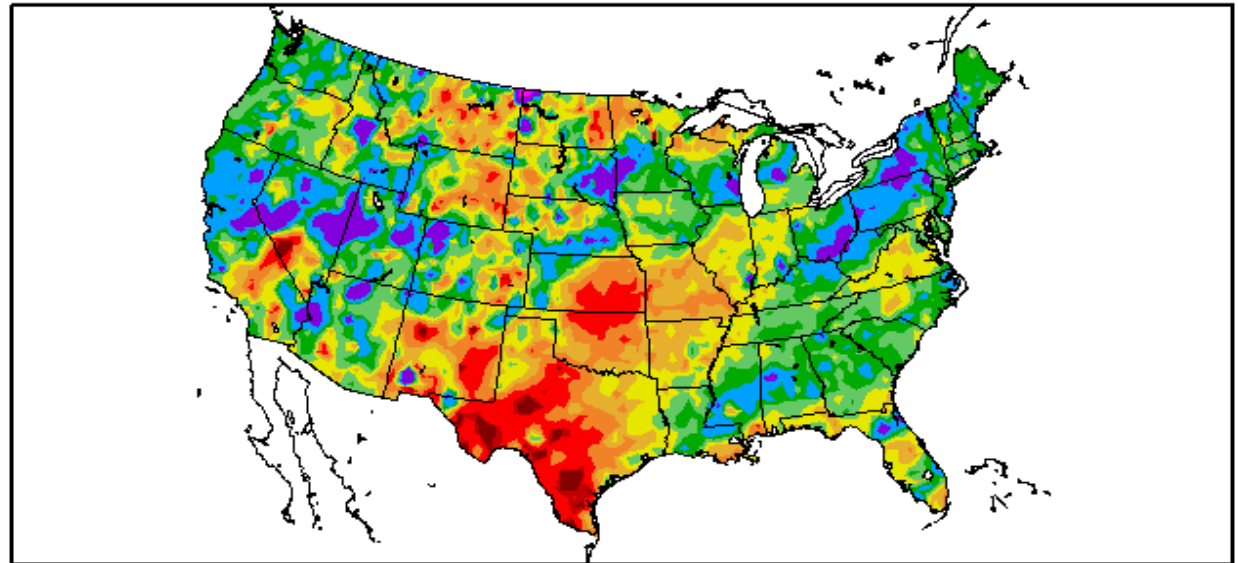
# NWS 90-Day Precipitation

CONUS + Puerto Rico: Current 90-Day Observed Precipitation  
Valid at 1/15/2013 1200 UTC- Created 1/15/13 23:38 UTC



# December 2013 Moisture Trend

Percent of Normal Precipitation (%)  
12/1/2012 – 12/31/2012



Generated 1/11/2013 at HPRCC using provisional data.

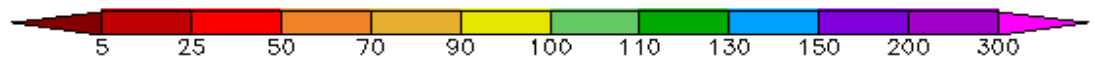
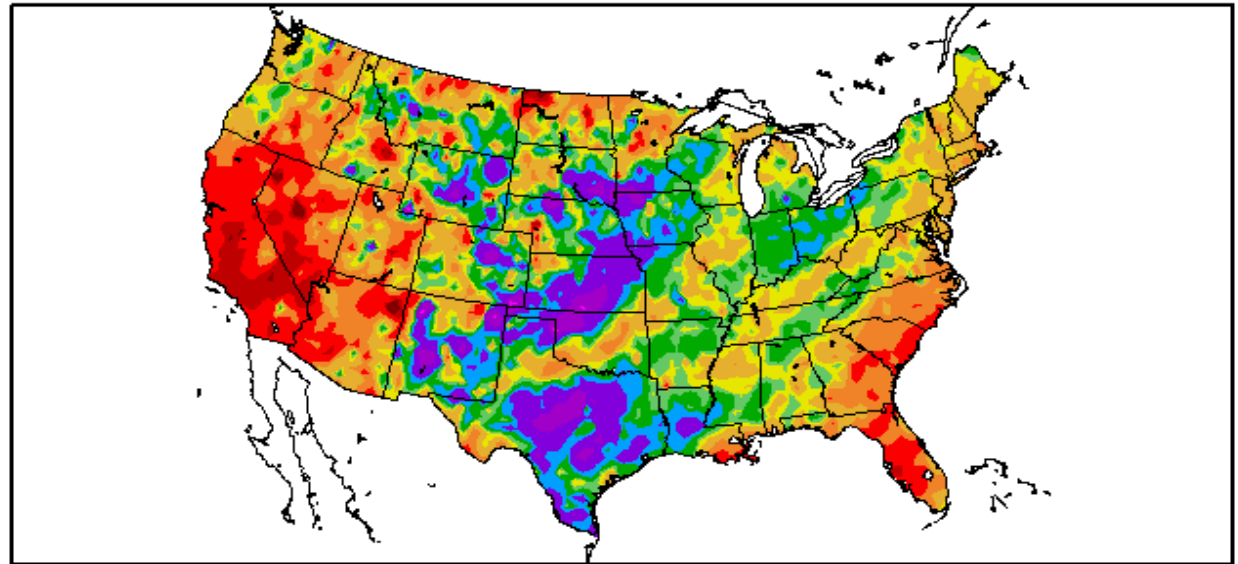
Regional Climate Centers





# Annual Percent of Normal Precipitation Winter 2011-2012

Percent of Normal Precipitation (%)  
12/1/2011 – 2/29/2012



Generated 6/22/2012 at HPRCC using provisional data.

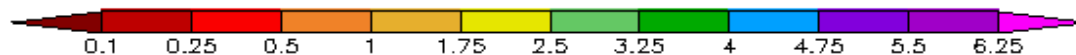
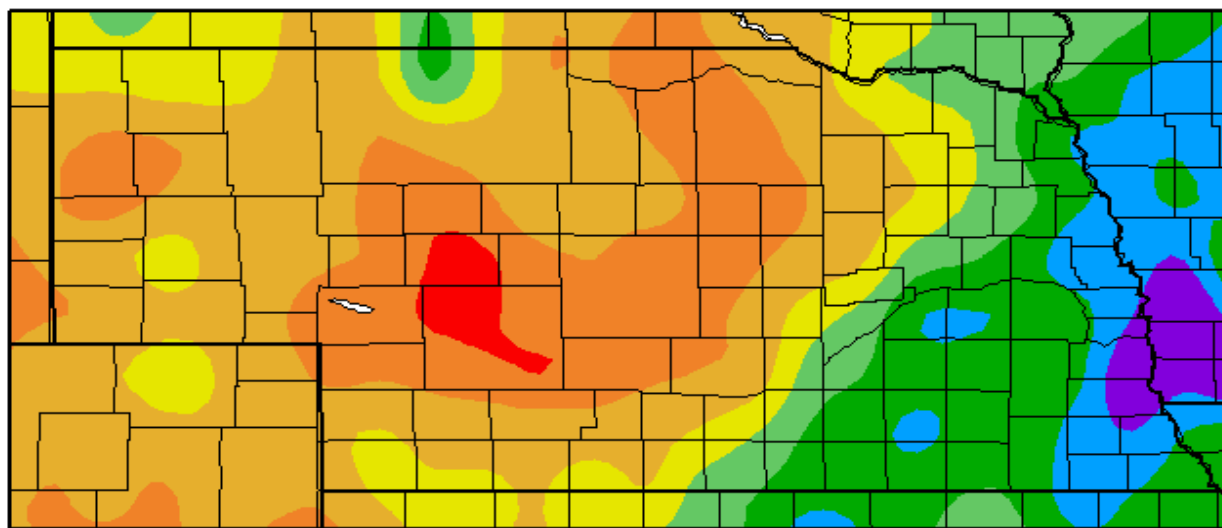
Regional Climate Centers





# Water Year 2013 Accumulated Moisture

Precipitation (in)  
10/1/2012 – 1/13/2013



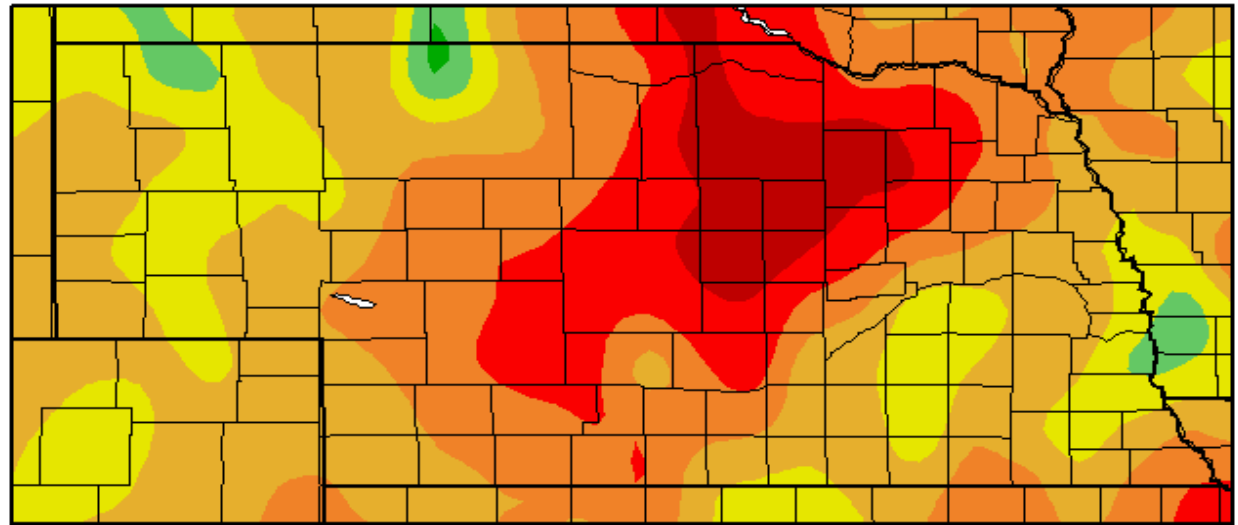
Generated 1/14/2013 at HPRCC using provisional data.

Regional Climate Centers



# Water Year 2013 Precipitation Deviations

Departure from Normal Precipitation (in)  
10/1/2012 – 1/13/2013



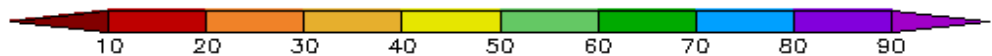
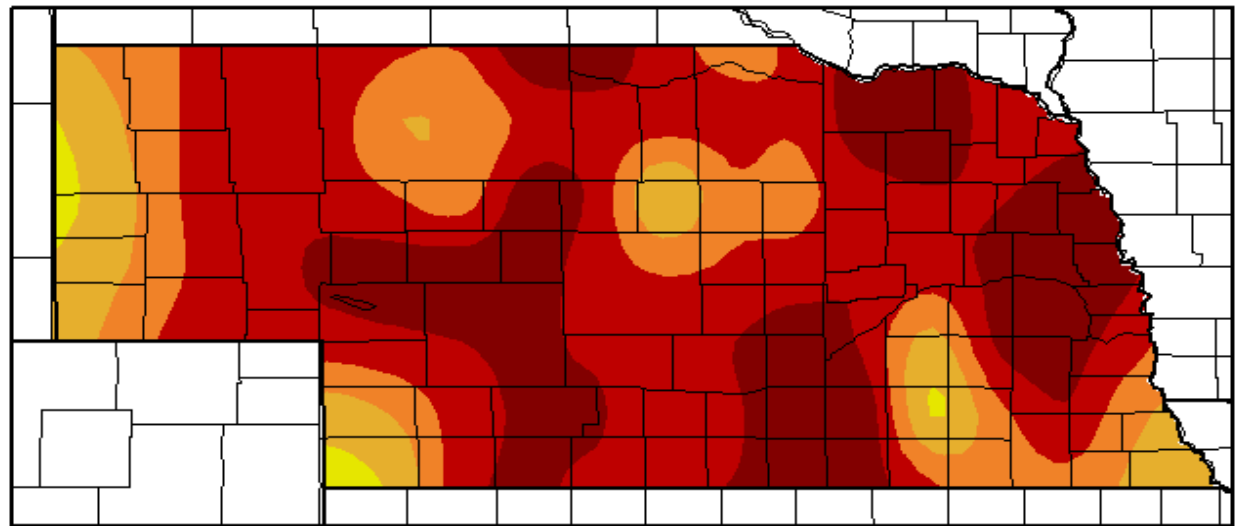
Generated 1/14/2013 at HPRCC using provisional data.

Regional Climate Centers



# HPRCC Current Soil Moisture Data

Percent of Max Available Water in Column (%)  
1/7/2013 - 1/13/2013



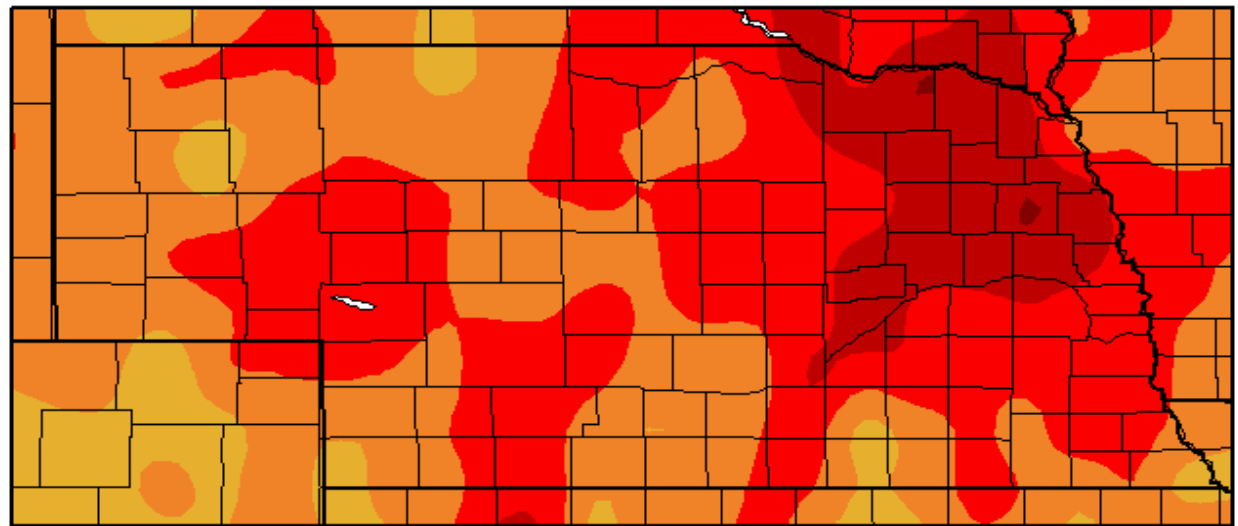
Generated 1/14/2013

High Plains Regional Climate Center



# Water Year 2012 Precipitation Departures

Departure from Normal Precipitation (in)  
10/1/2011 – 9/30/2012



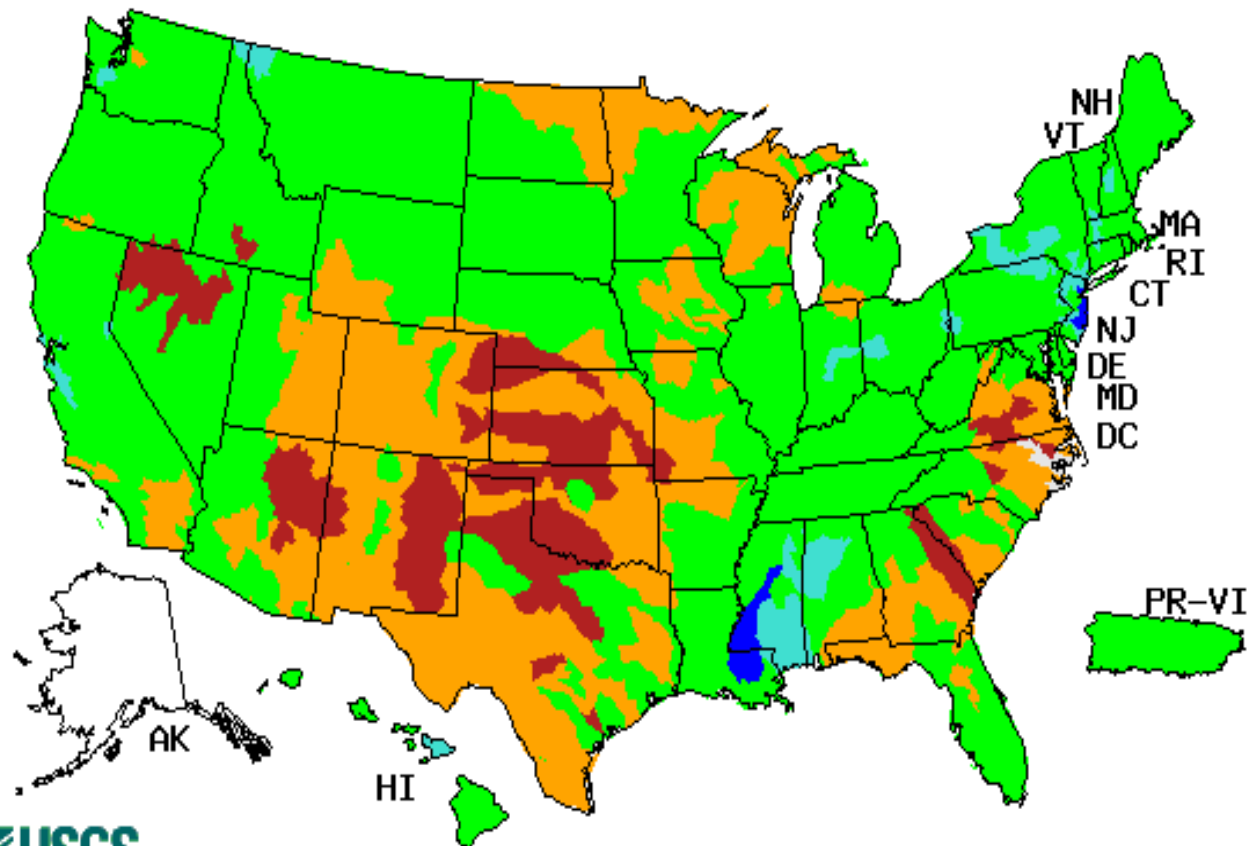
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Regional Climate Centers



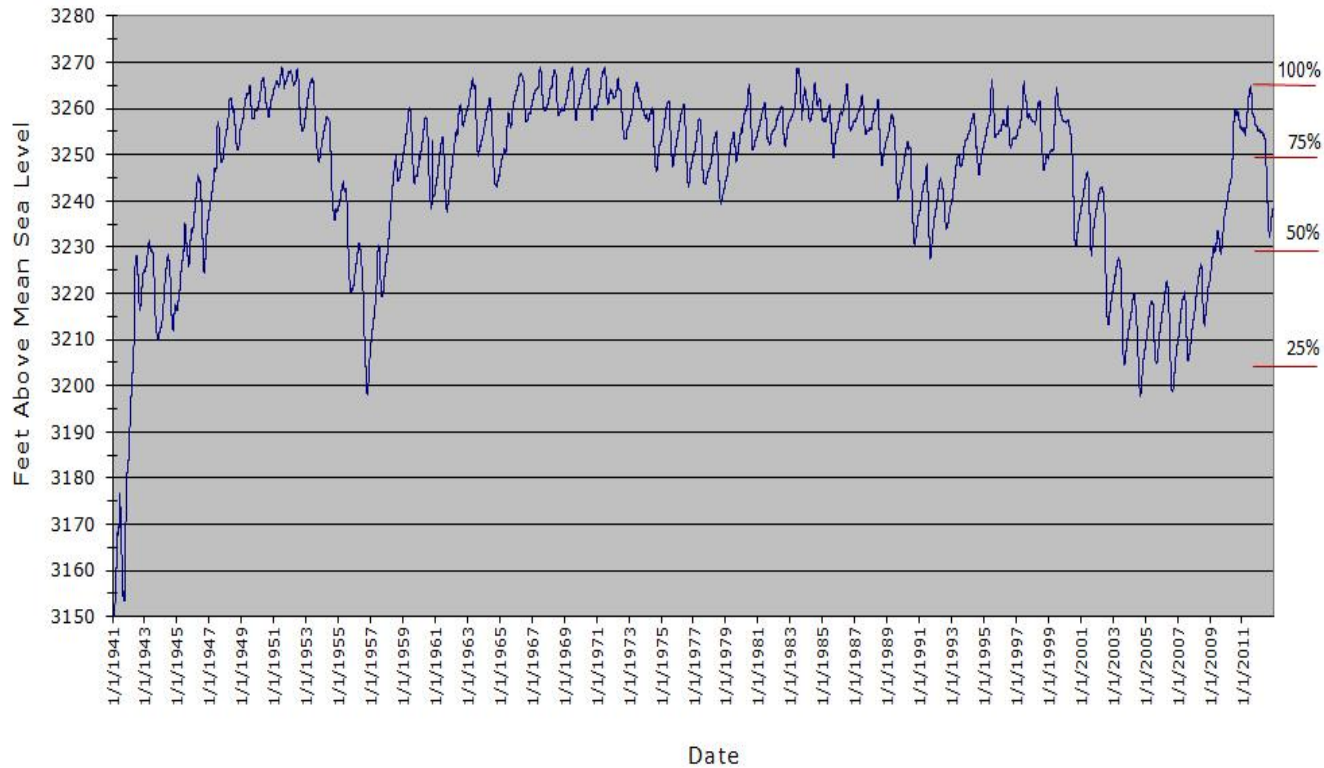
# One Month Average Streamflow Classification

Sunday, January 13, 2013



# Lake McConaughy Storage

Lake McConaughy Elevation  
1941 to Present

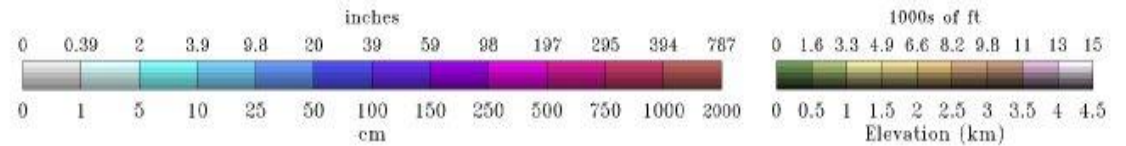
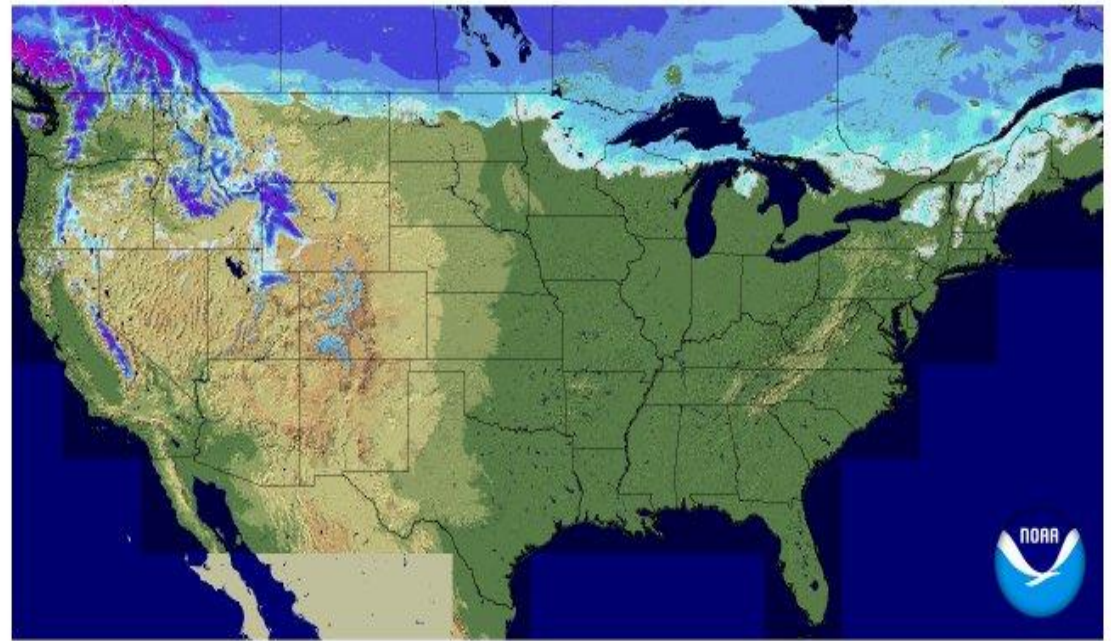


# Snow Depth 12/3/2013

NATIONAL SNOW 2012-  
ANALYSIS 2013  
NOAA

Snow Depth

2012-12-03 06



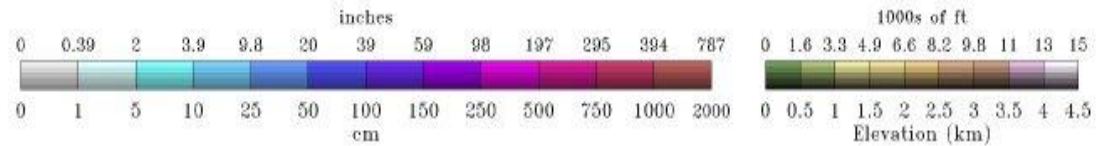
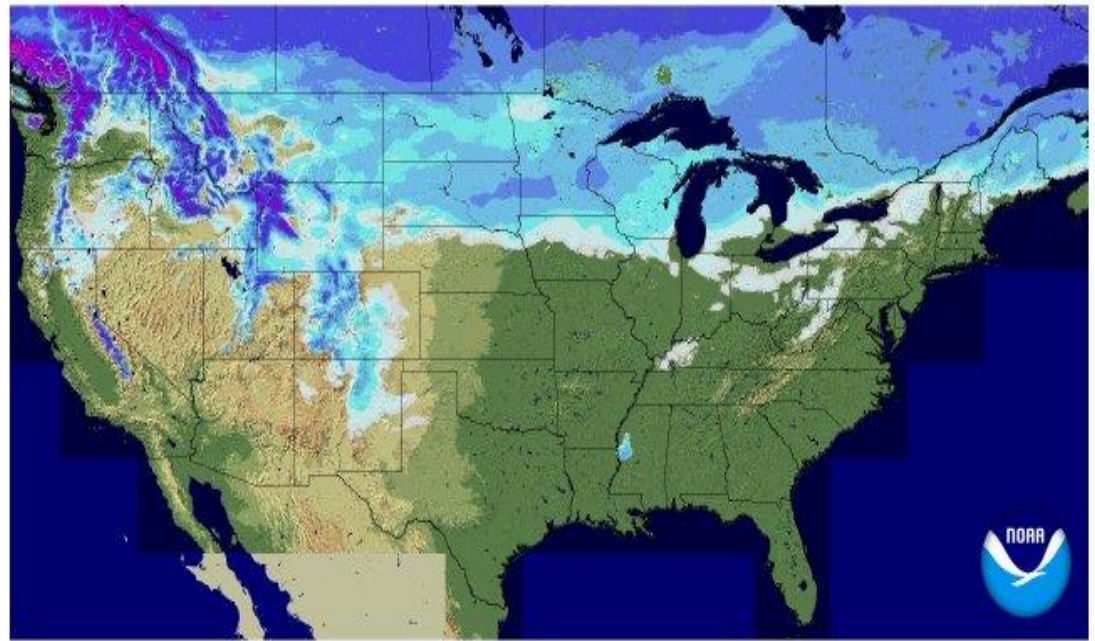


# Snow Depth 12/12/2012

NATIONAL SNOW 2012-  
ANALYSIS 2013  
NOAA

Snow Depth

2012-12-12 06



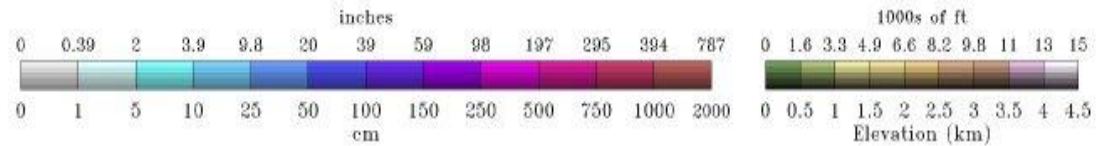
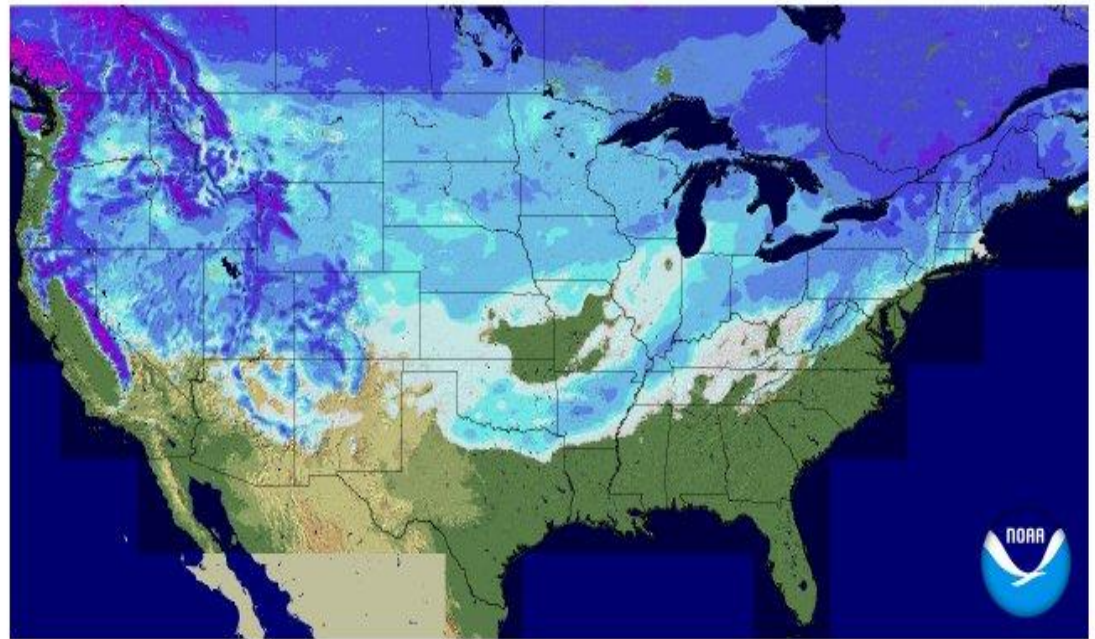


# Snow Depth 12/28/2012

NATIONAL SNOW 2012-  
ANALYSIS 2013  
NOAA

Snow Depth

2012-12-28 06

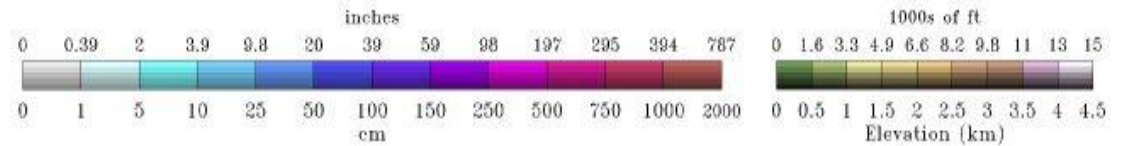
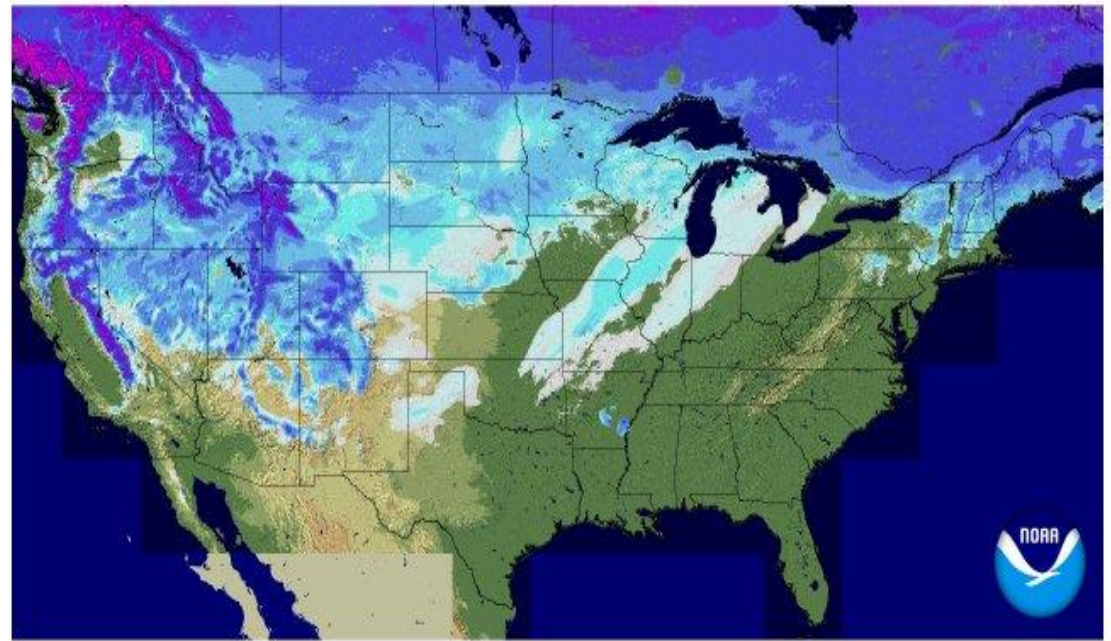


# Snow Depth 1/14/2013

NATIONAL SNOW 2012-  
ANALYSIS 2013  
NOAA

Snow Depth

2013-01-14 06

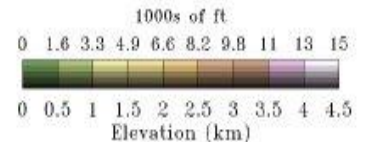
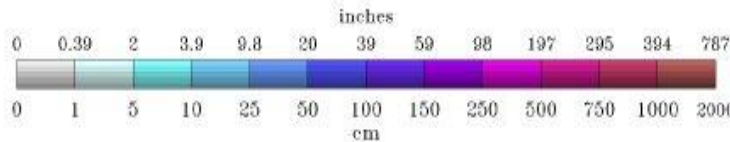
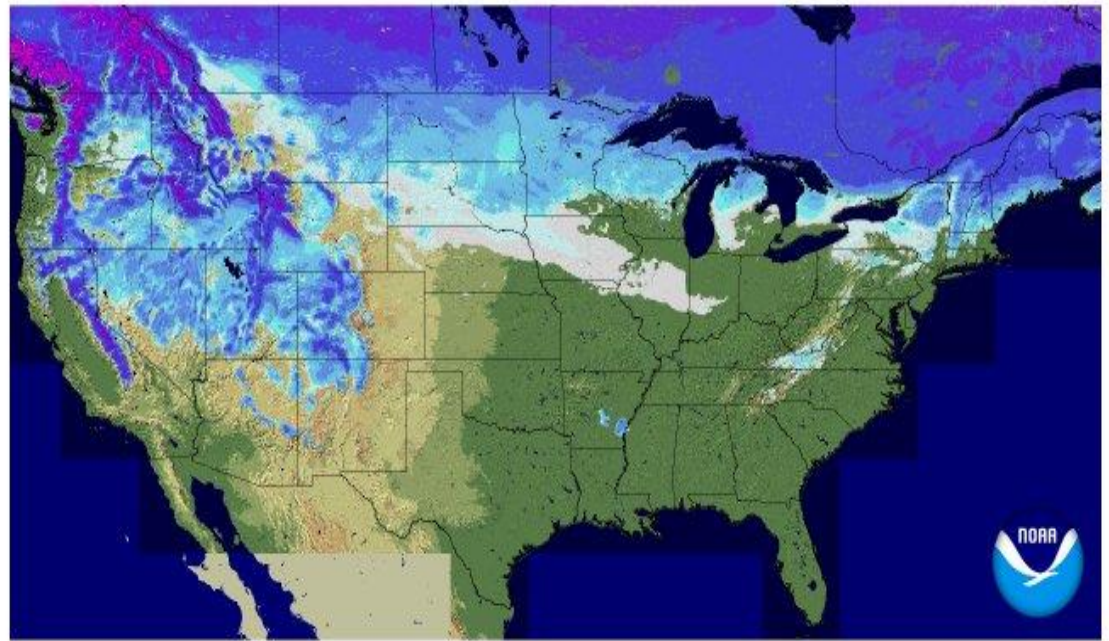


# Current Snow Depth 1/21/2013

NATIONAL SNOW 2012-  
ANALYSIS 2013  
NOAA

Snow Depth

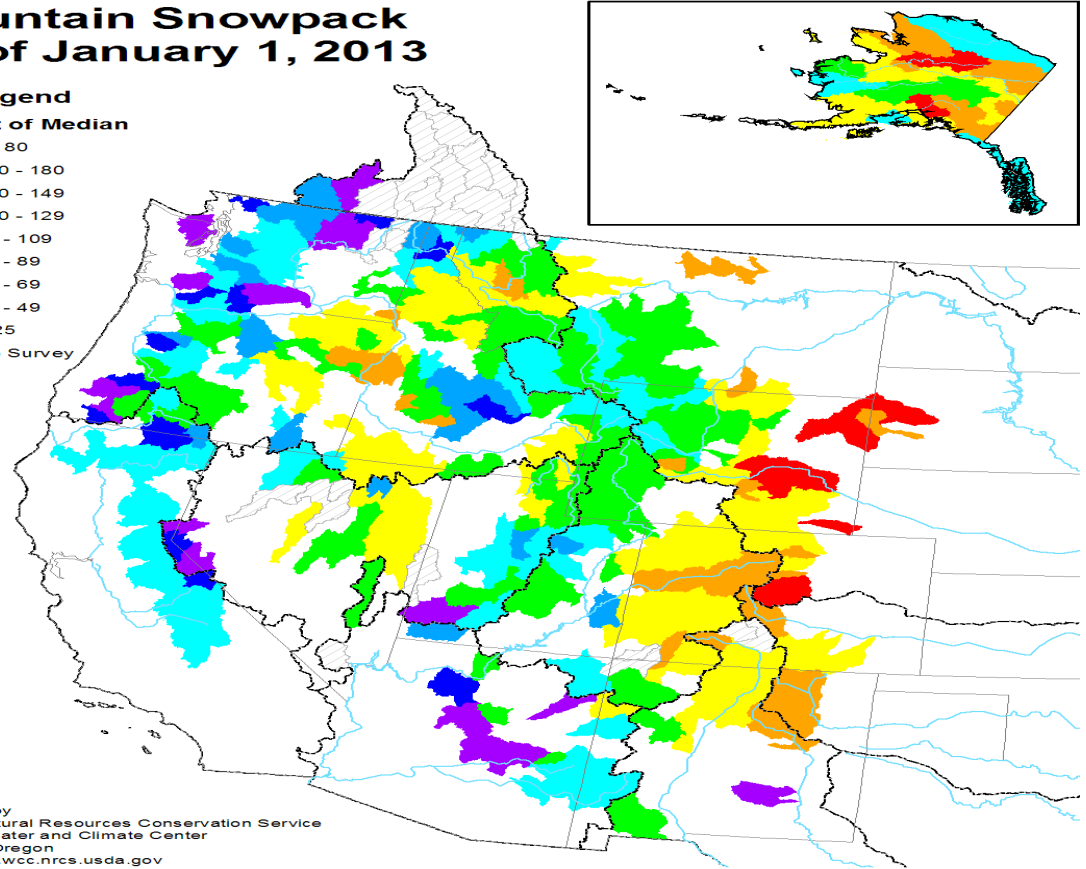
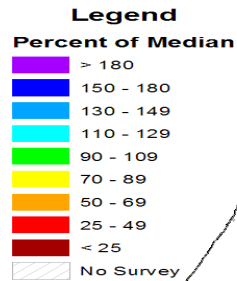
2013-01-21 06





# NRCS Snowpack Estimates by Watershed

## Mountain Snowpack as of January 1, 2013

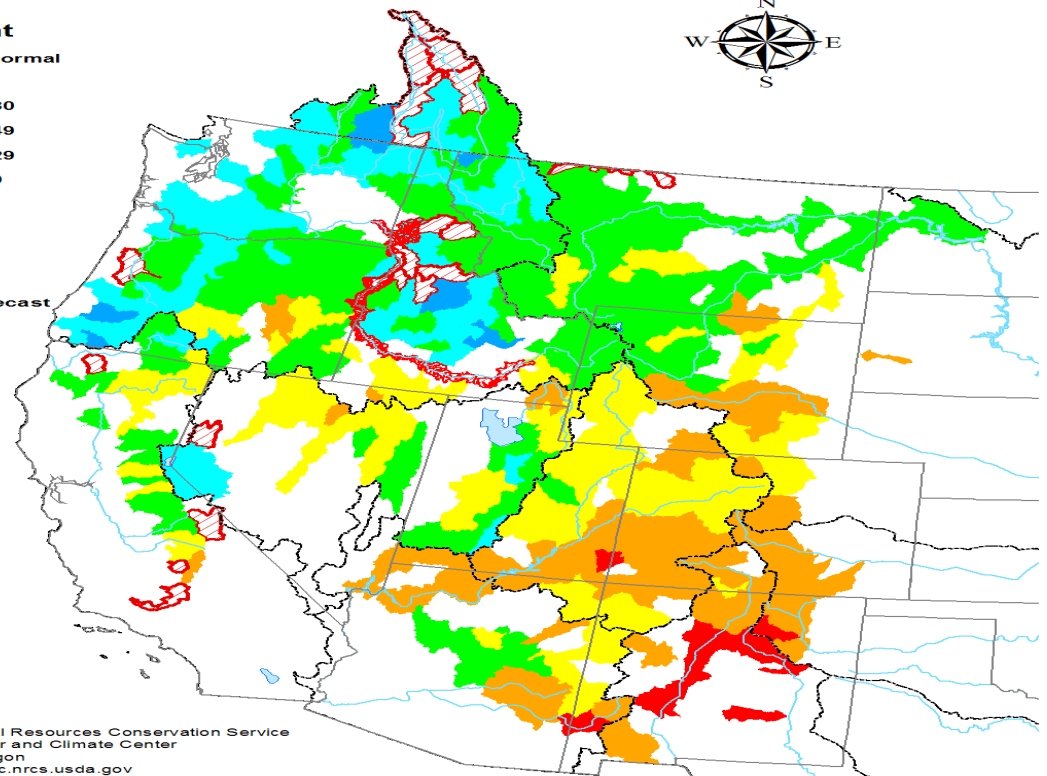
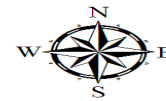
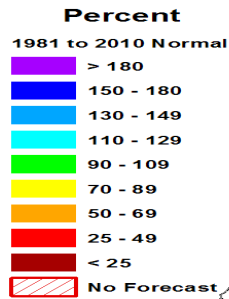


Prepared by  
USDA, Natural Resources Conservation Service  
National Water and Climate Center  
Portland, Oregon  
<http://www.wcc.nrcs.usda.gov>



# NRCS Streamflow Projections

## Spring and Summer Streamflow Forecasts as of January 1, 2013

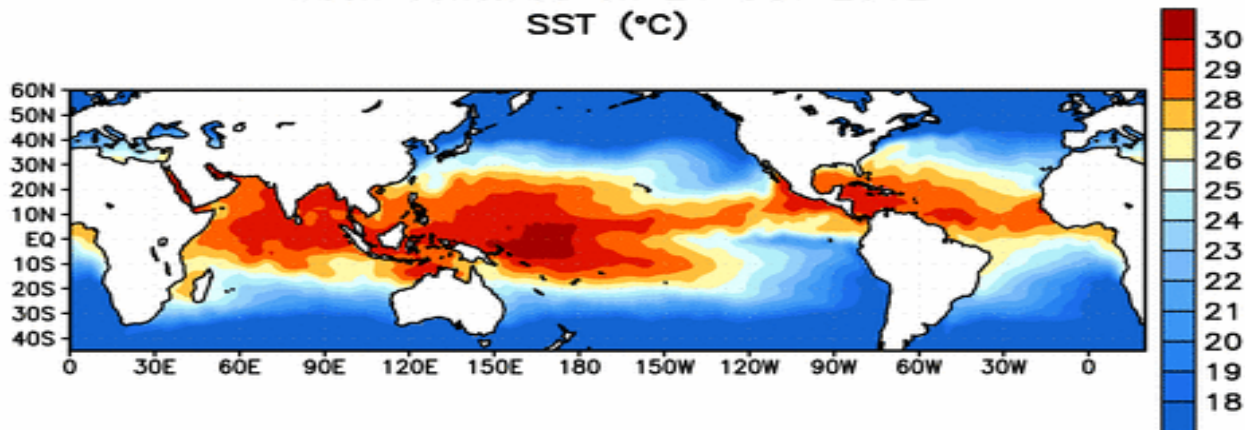


Prepared by  
USDA, Natural Resources Conservation Service  
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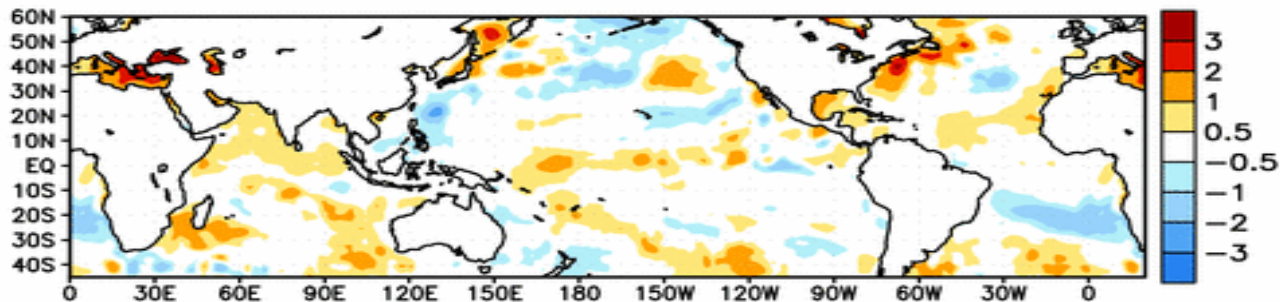


# Sea Surface Temperature Deviations

Week centered on 24 OCT 2012  
SST (°C)



Anomalies (°C)



# Drought Outlook

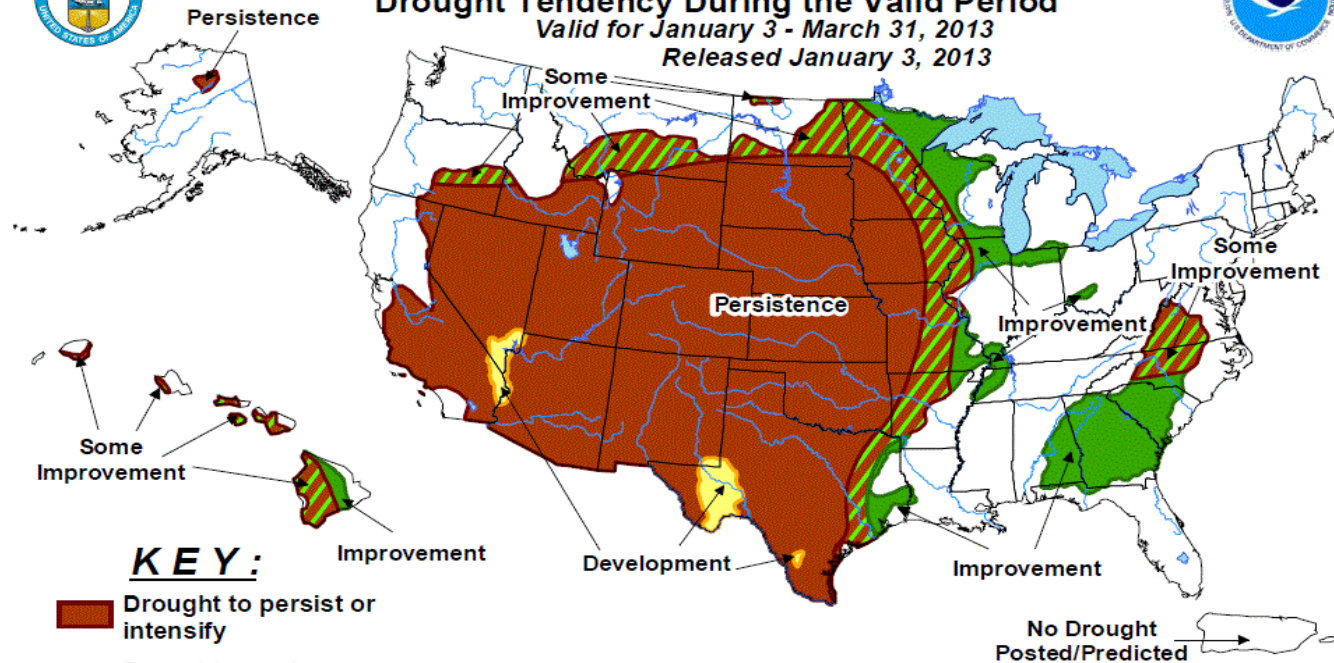
## January 3, 2013 Release



### U.S. Seasonal Drought Outlook

#### Drought Tendency During the Valid Period

*Valid for January 3 - March 31, 2013*  
*Released January 3, 2013*

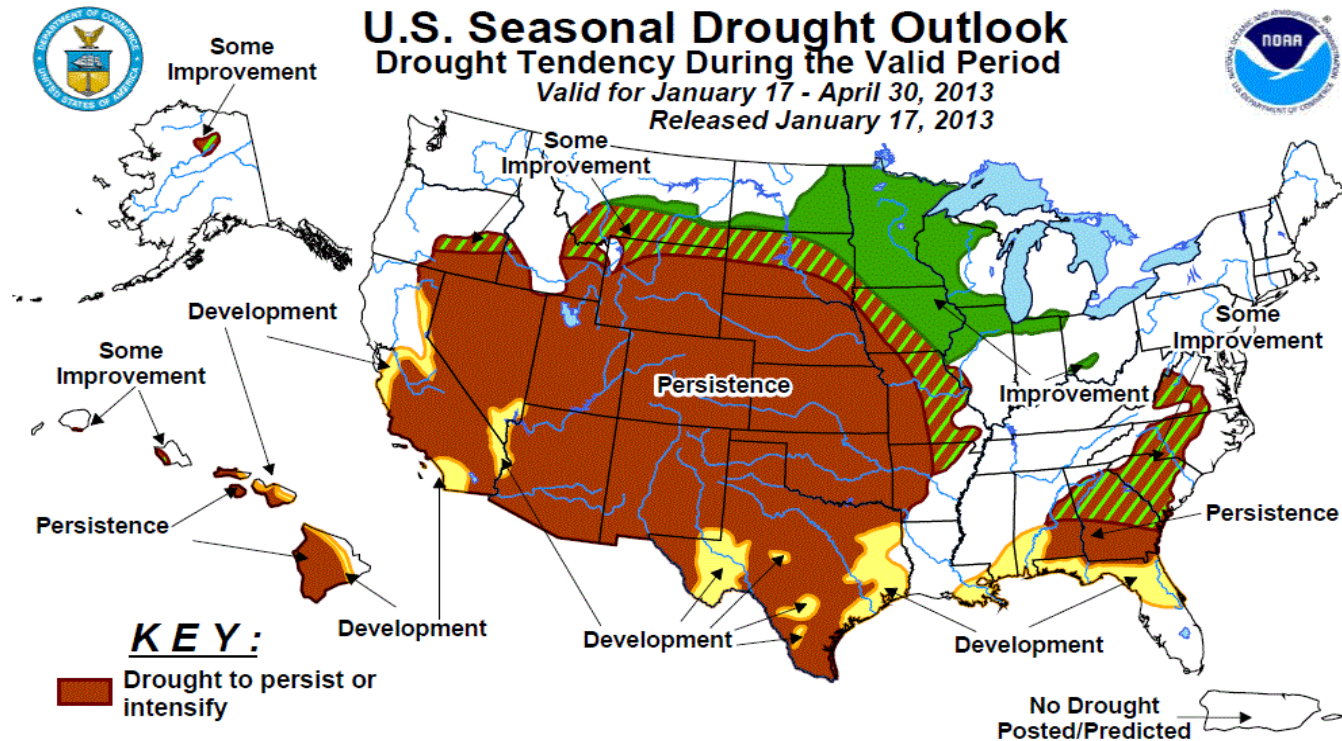


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops --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





# Latest Drought Outlook January 17 Release

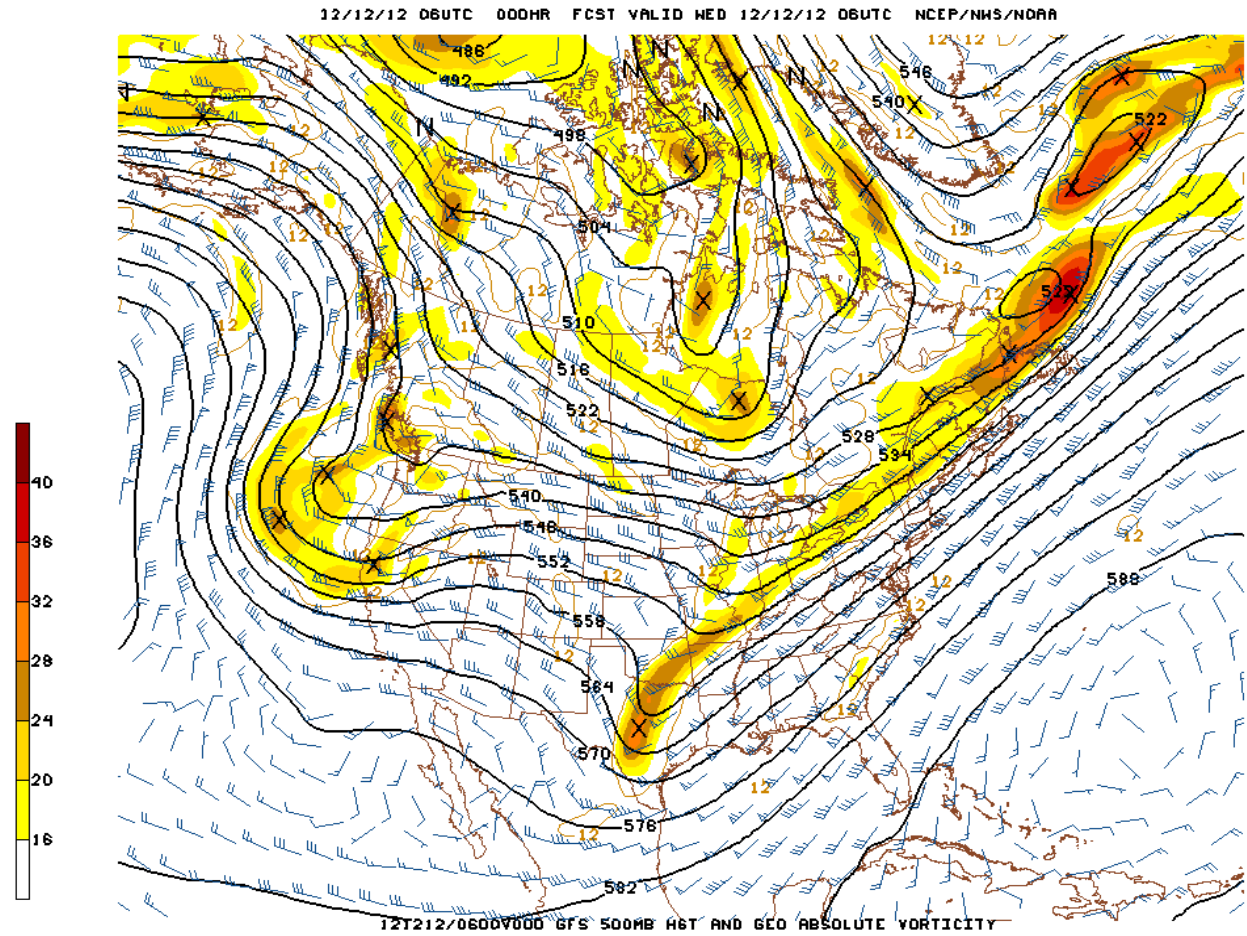


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops --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

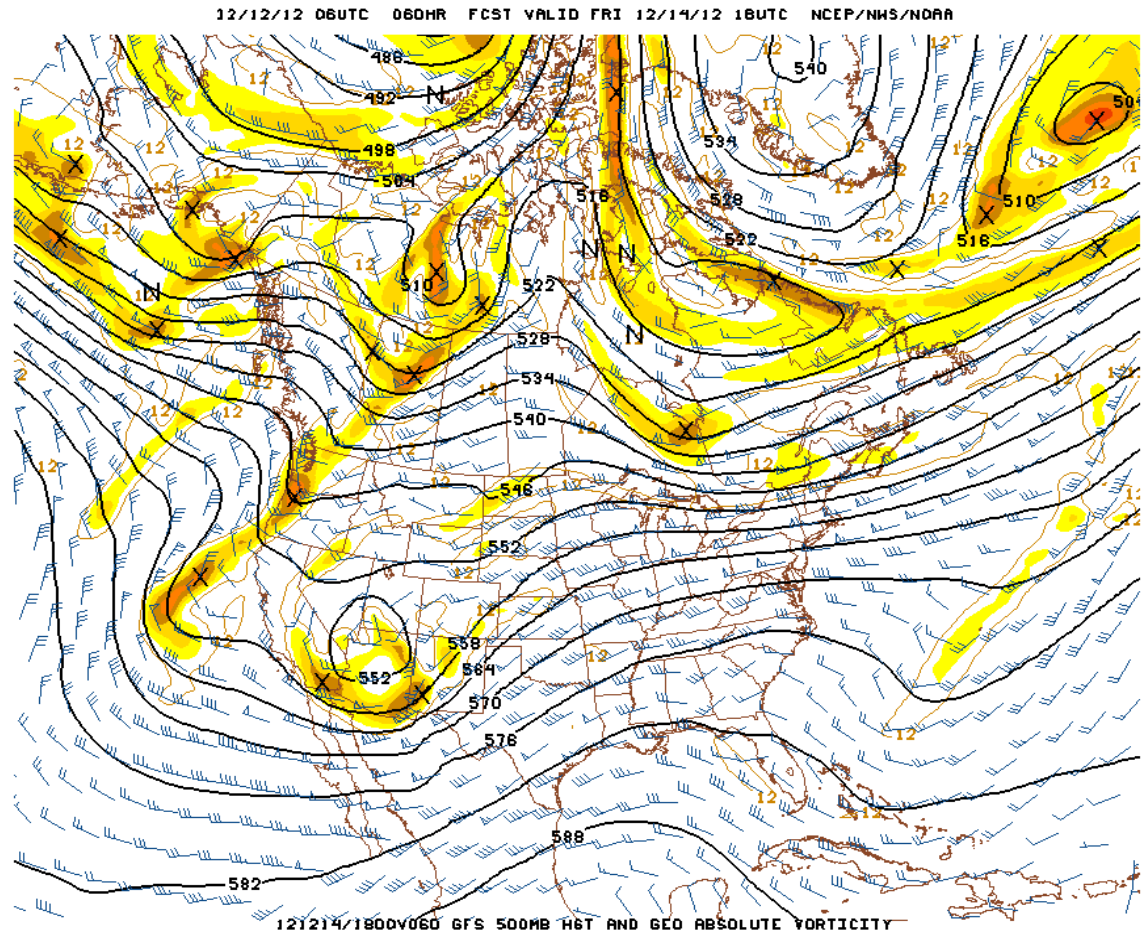




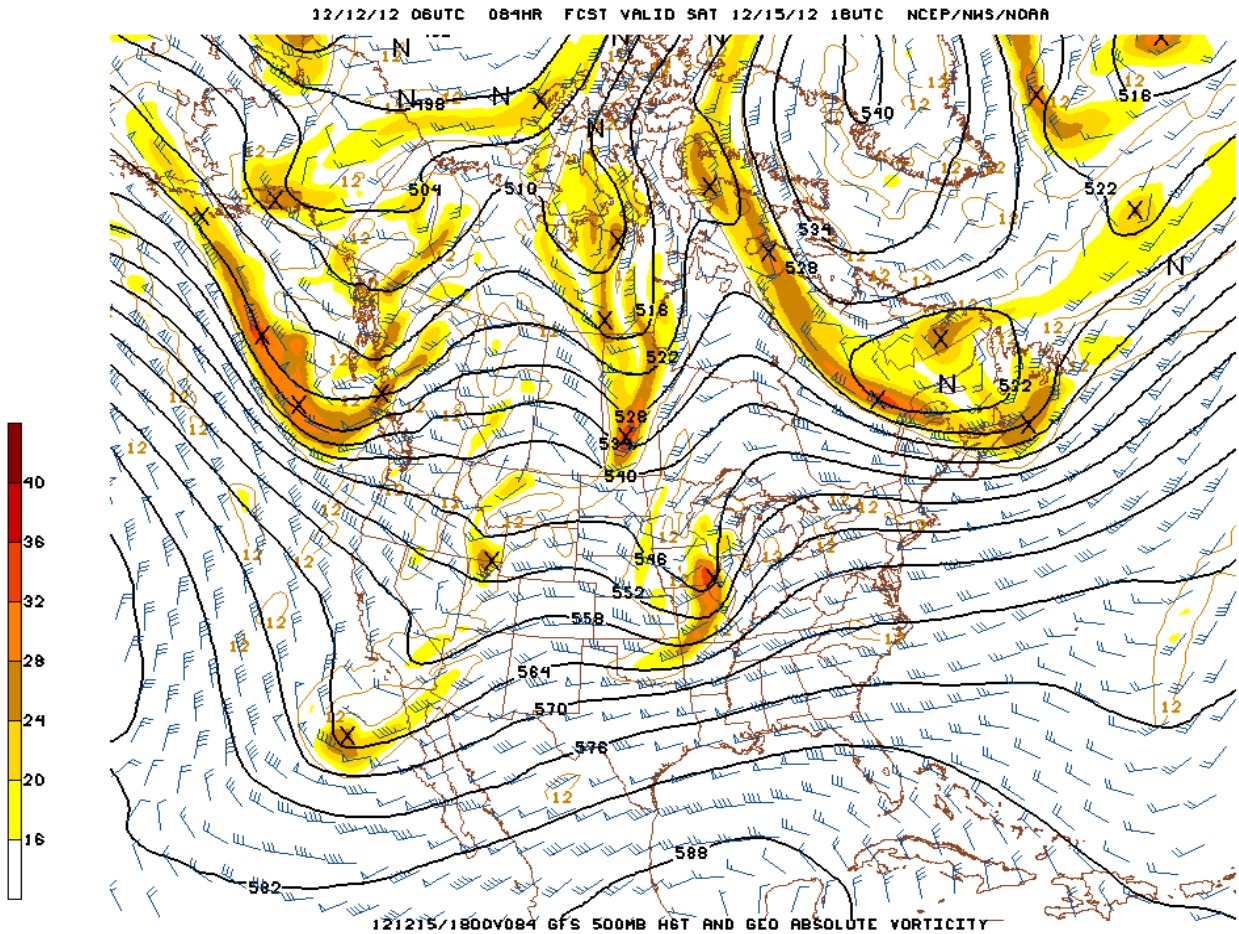
# Upper Air – Example 1



# Upper Air – Example 2

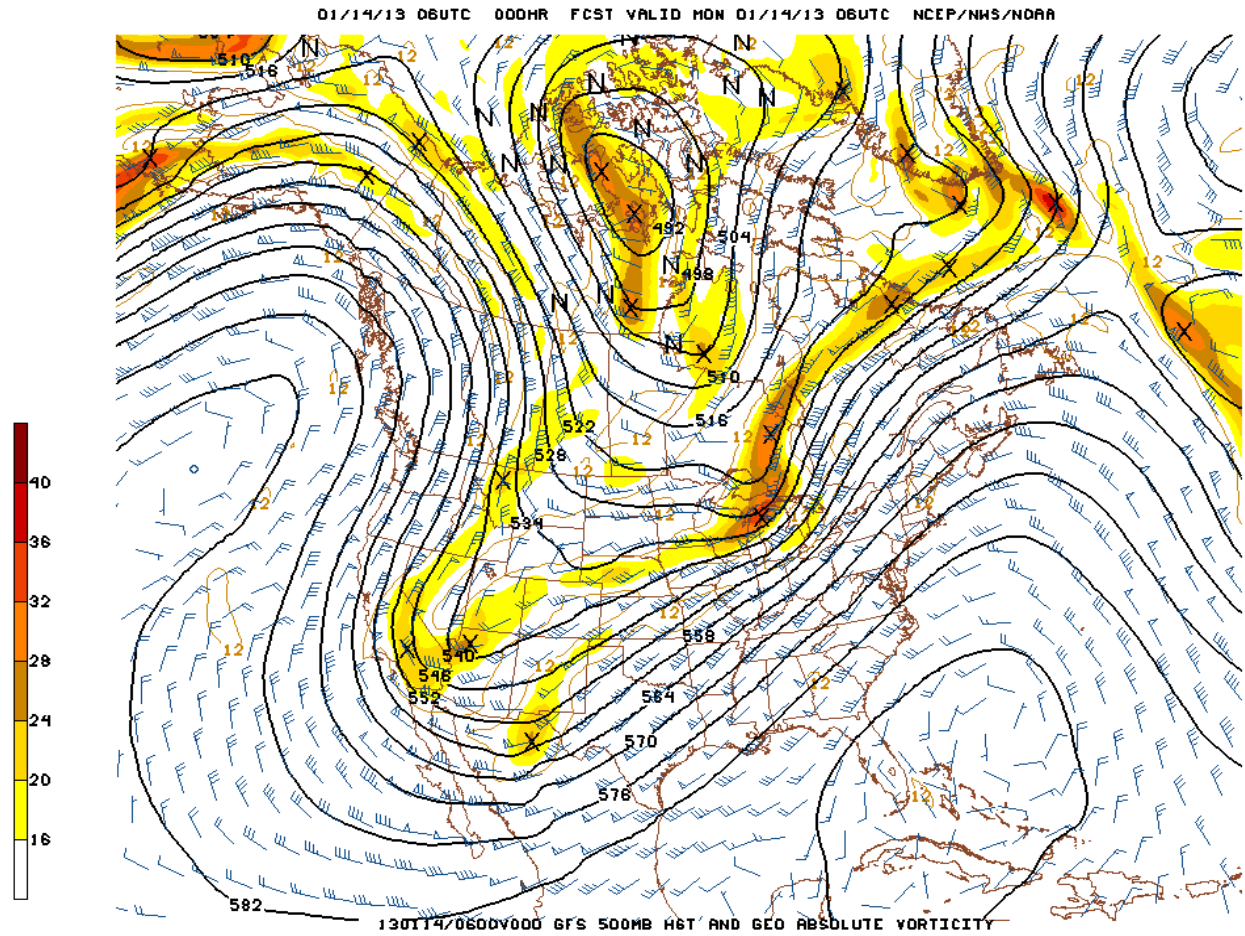


# Upper Air – Example 3





# Upper Air – Example 4



# Upper Air – Example 5

