

# Climate Review for the month of December 2013 and 2013 Quick Summary

Presented by:  
National Weather Service  
Newport/Morehead City

# Summary

Overall, December was a warm and somewhat wet month. During the month, high pressure once again dominated the area with several cold front passages and upper level ridging aloft. Average max temperature ranged in the upper 50s to low 60s while average lows were in the mid-upper 30s to low 40s. This month several locations (ASOS and COOP Stations) have broken max temperature records on both December 6 and/or 23, some of our stations have records going back to the 1890s.

Generally, the area received 2 to 5 inches of rain in December. Most of the rain fell across the inland counties with the least amount along the coastal areas. Due to the several location receiving a good amount of rain, our coverage of D0 (Abnormally Dry) decreased to just Onslow, Carteret and Jones county.

*DISCLAIMER : The climate data provided are preliminary and have not undergone final quality control by NCDC. Therefore...this data is subject to revision.*

# Average Temperatures within our CWA

	Avg_Max	Avg_Max Normal	Avg_Min	Avg_Min Normal
Beaufort	61.0	na	42.7	na
Cape Hatteras	60.3	57.3	44.8	42.6
New Bern	63.1	57.7	40.4	36.3
Greenville	59.2	55.4	37.3	33.8
Kinston AG	61.0	59.3	39.5	36.1
Williamston	57.2	55.5	35.1	34.4
Plymouth	58.9	57.5	37.6	36.0
Bayboro	62.1	58.9	40.3	36.1

Average temperatures were up to 5 degrees above normal.

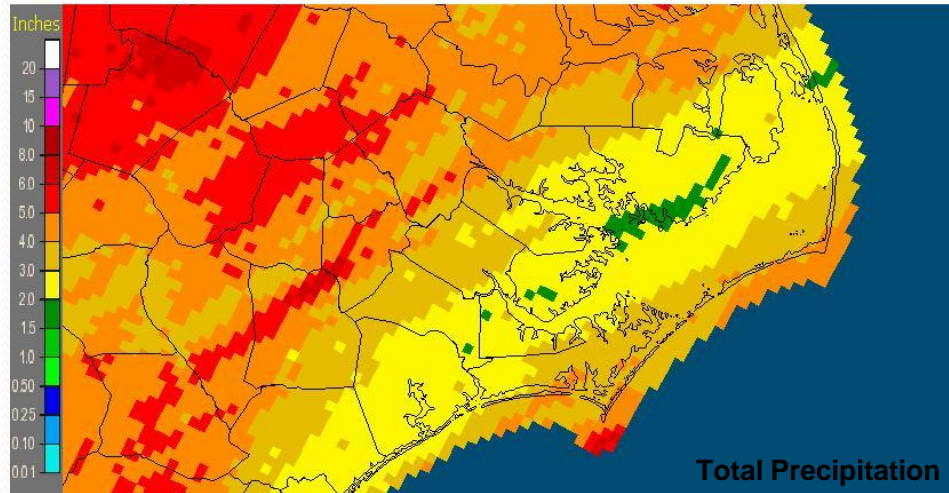
# Max and Min Temperature within our CWA

	MAX	MIN
Beaufort	74	28
Cape Hatteras	73	27
New Bern	82	26
Greenville	81	21
Kinston AG	80	24
Williamston	81	25
Plymouth	80	25
Bayboro	79	29

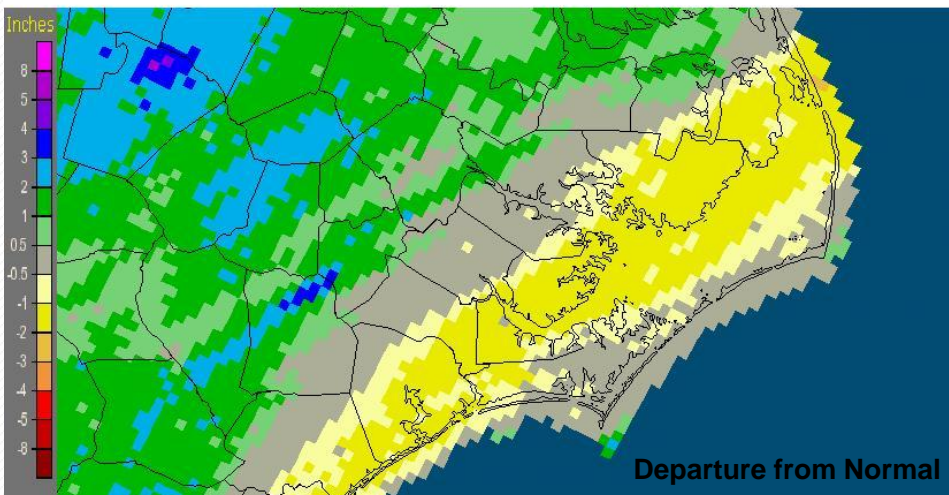
# December's Rain versus Normal

	Precipitation (inches)	Normal	Differences
Beaufort	4.03	na	na
Cape Hatteras	3.9	4.27	-0.37
New Bern	2.39	3.4	-1.01
Greenville	5.27	3.25	2.02
Kinston AG	4.23	3.08	1.15
Williamston	5.27	3.24	2.03
Plymouth	4.9	3.29	1.61
Bayboro	2.36	3.75	-1.39

Newport/Morehead City, NC (MHX): December, 2013 Monthly Observed Precipitation  
Valid at 1/1/2014 1200 UTC- Created 1/10/14 18:44 UTC



Newport/Morehead City, NC (MHX): December, 2013 Monthly Departure from Normal Precipitation  
Valid at 1/1/2014 1200 UTC- Created 1/10/14 18:49 UTC

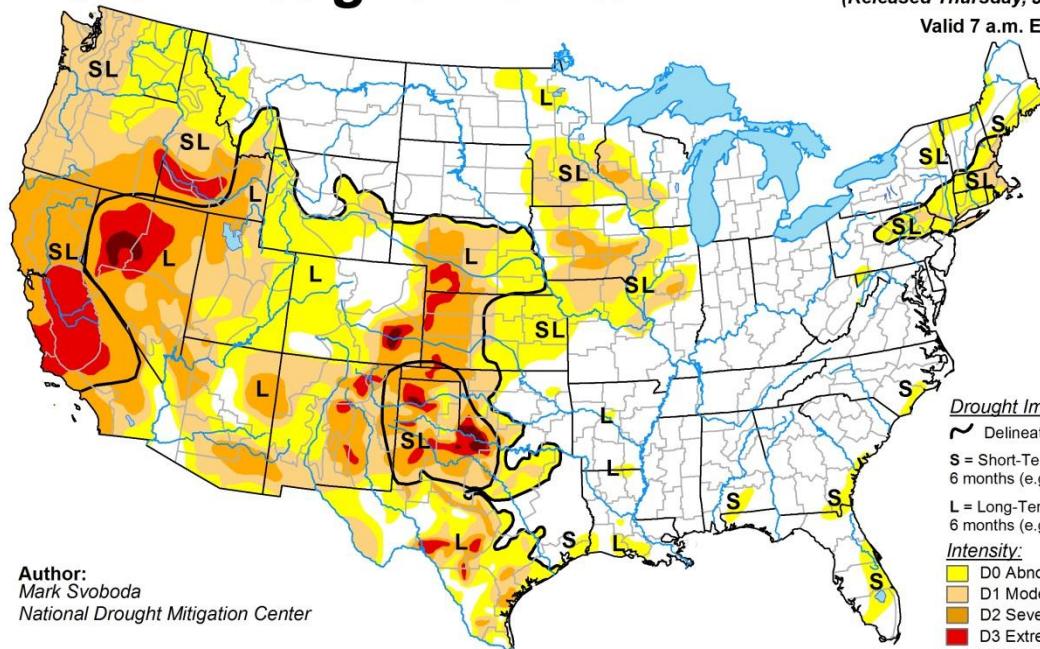


Most of the rainfall has fallen inland compared the last few months. Rainfall amounts range between 2 to 6 inches with the greatest amount inland and less amount counties adjacent to the sounds.



# U.S. Drought Monitor

January 7, 2014  
 (Released Thursday, Jan. 9, 2014)  
 Valid 7 a.m. EST



Author:  
 Mark Svoboda  
 National Drought Mitigation Center

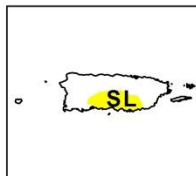
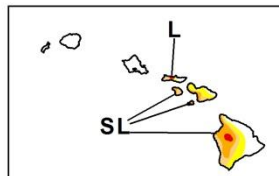
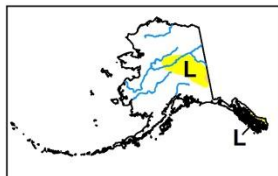
**Drought Impact Types:**

- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

**Intensity:**

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

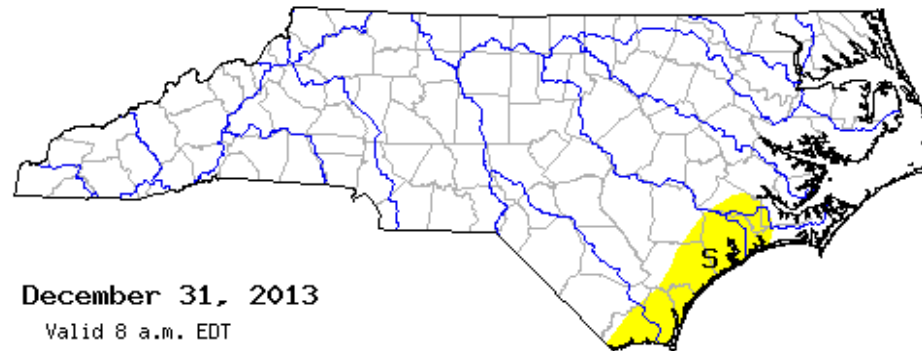
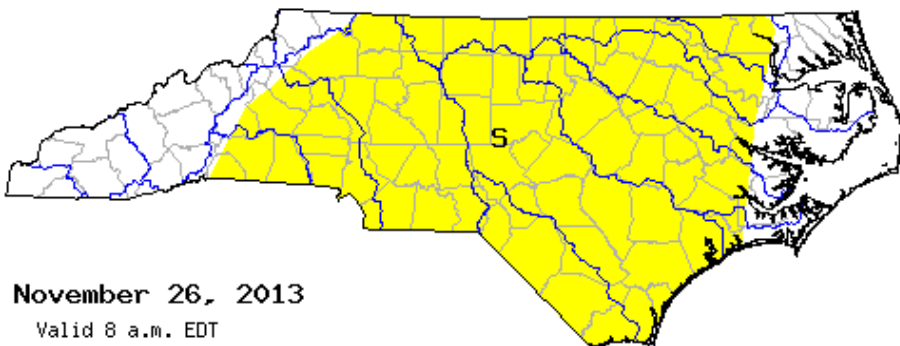
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



<http://droughtmonitor.unl.edu/>

Before

Now



November 26, 2013  
 Valid 8 a.m. EDT

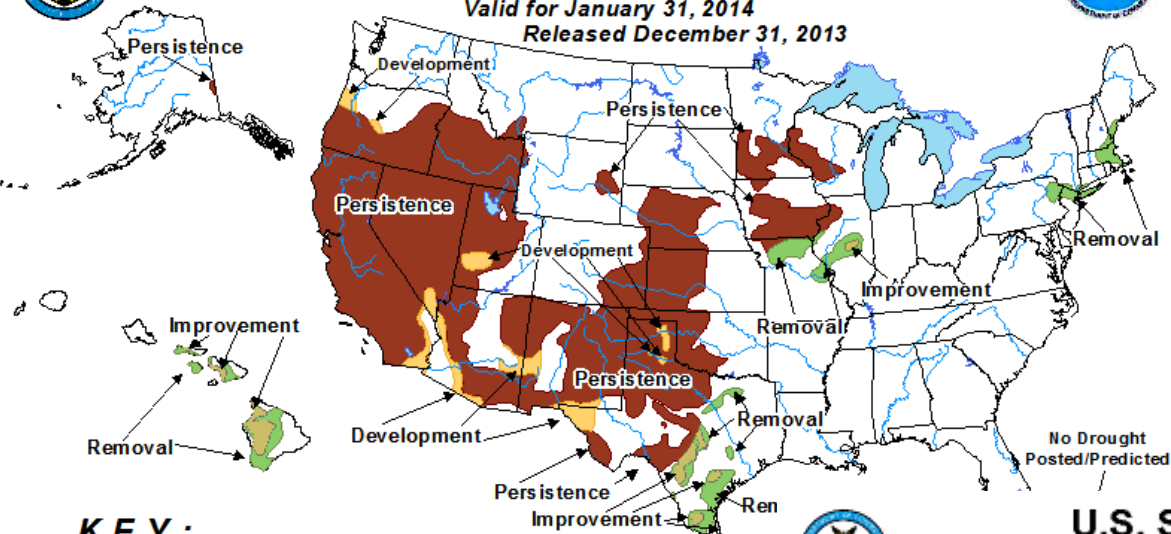
December 31, 2013  
 Valid 8 a.m. EDT



# U.S. Monthly Drought Outlook

## Drought Tendency During the Valid Period

Valid for January 31, 2014  
Released December 31, 2013



### KEY:

- Drought persists or intensifies
- Drought remains but improves
- Drought removal likely
- Drought development likely

Author: Rich Tinker, Climate Prediction Center  
[http://www.cpc.ncep.noaa.gov/products/expert\\_assessr](http://www.cpc.ncep.noaa.gov/products/expert_assessr)

Depicts large-scale trends based on subjectively derived long-range statistical and dynamical forecasts. Short-term cannot be accurately forecast more than a few days in advance – such as crops – that can be affected by such events. approximated from the Drought Monitor (D1 to D4 intensity) see the latest U.S. Drought Monitor.

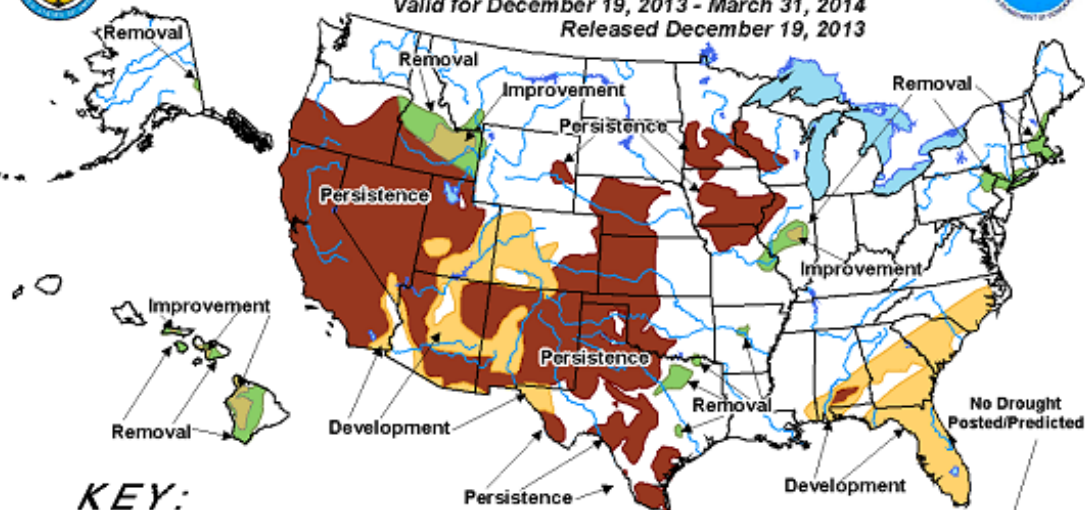
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period. The green areas imply drought removal by the end of the period.



# U.S. Seasonal Drought Outlook

## Drought Tendency During the Valid Period

Valid for December 19, 2013 - March 31, 2014  
Released December 19, 2013



### KEY:

- Drought persists or intensifies
- Drought remains but improves
- Drought removal likely
- Drought development likely

Author: Rich Tinker, Climate Prediction Center, NOAA  
[http://www.cpc.ncep.noaa.gov/products/expert\\_assessment/season\\_drought.html](http://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.html)

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 tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period although drought will remain. The Green areas imply drought removal by the end of the period (D0 or none)

# 2013 Summary

Quick review of the highest and lowest temps with average max/mins and total precipitation of the year.

	<u>Max</u>	<u>Min</u>	<u>Avg_Max</u>	<u>Avg_Min</u>	<u>Avg Temp</u>	<u>Total Precip (inches)</u>
<b>Beaufort</b>	92	23	70	55	63	50.31
<b>Cape Hatteras</b>	91	27	70	57	64	53.24
<b>New Bern</b>	98	20	73	53	63	42.44
<b>Greenville</b>	97	18	71	51	61	50.78
<b>Kinston AG</b>	96	20	73	52	63	54.42
<b>Williamston</b>	95	21	70	50	60	56.46
<b>Plymouth</b>	97	17	71	51	61	50.44
<b>Bayboro</b>	93	25	74	53	63	45.66