



July 2019 Climate Review

Presented By:

National Weather Service
Newport/Morehead City, NC

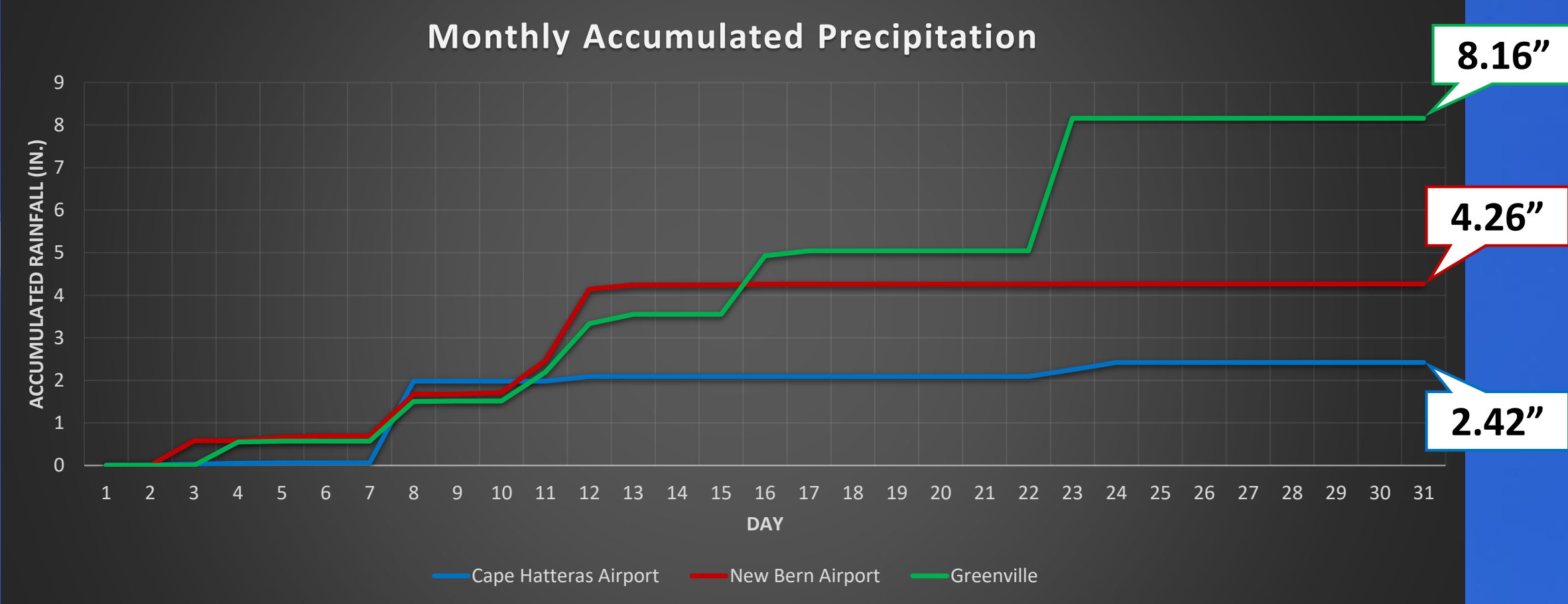
July 2019 Summary



Mammatus clouds, commonly associated with severe weather, seen over the WFO office in Newport on July 9, 2019.

July 2019 was a month of extremes in every way possible with most of coastal NC, particularly the Crystal Coast, suffering drought and some inland locations getting nearly 3 inches above their average rainfall. July, on average, was about 1 to 2 degrees above normal but featured both blistering highs early in the month and near record lows at its end.

July 2019 Rainfall

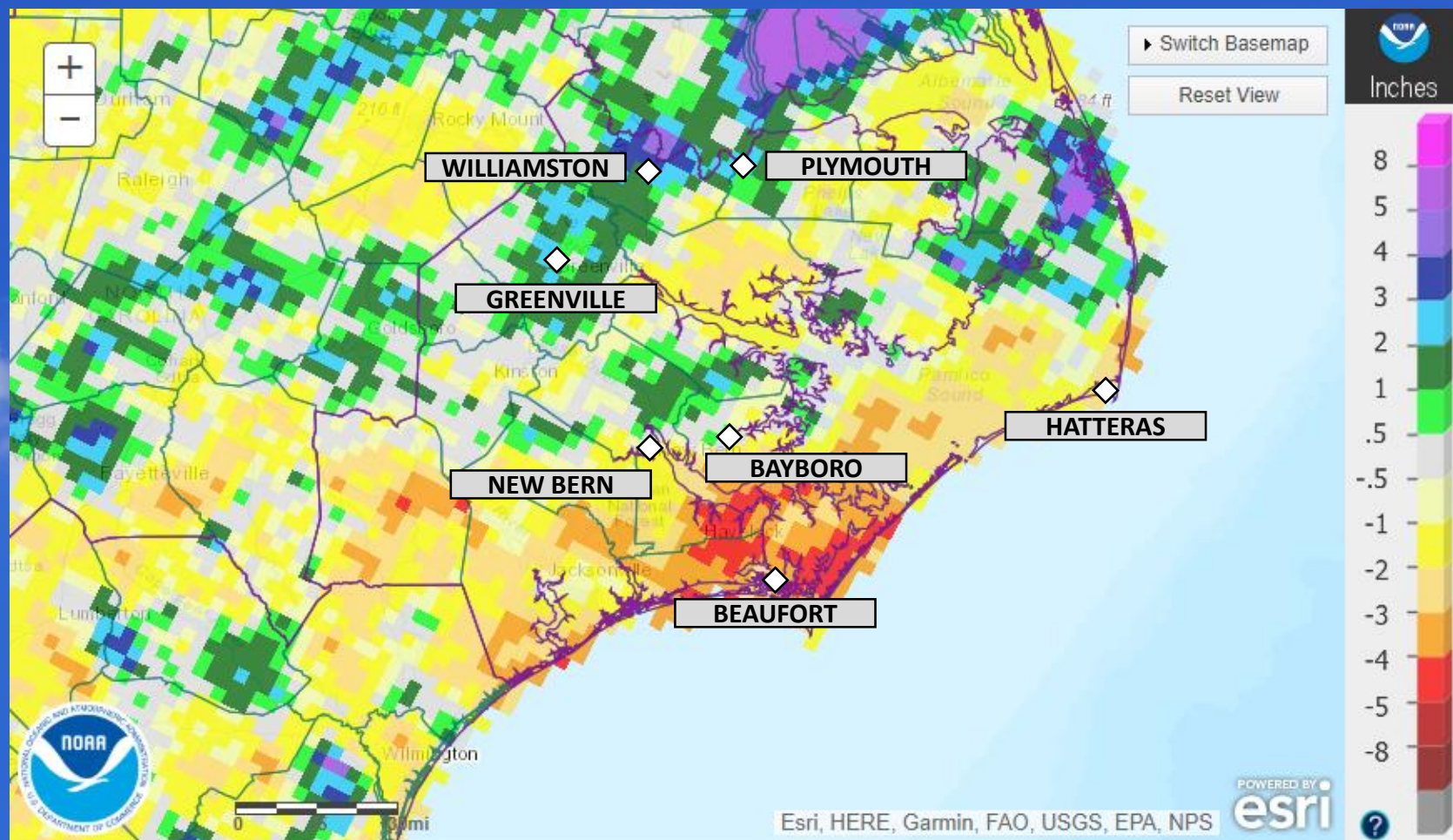


White diamonds denote missing 24-hour precipitation report. Asterisk denotes total with missing data.

July 2019 Rainfall vs. Climate Normal

	Observed (In.)	Normal	Difference
Beaufort	2.43	6.02	▼ 3.59
Hatteras	2.42	4.99	▼ 2.57
New Bern	4.26	6.17	▼ 1.91
Greenville	8.16	5.39	▲ 2.77
Williamston	7.32	5.29	▲ 2.03
Plymouth	6.34	5.34	▲ 1.00
Bayboro	7.53	6.27	▲ 1.26

Red sites have missing data



July 2019 Precipitation: Departure from Normal
Analysis from the Advanced Hydrologic Prediction Service

Average Temperatures: July 2019

	Average High	Normal High	Difference	Average Low	Normal Low	Difference
Beaufort	88.3	85.8	▲ 2.5	74.9	74.2	▲ 0.7
Hatteras	87.9	84.6	▲ 3.3	75.7	73.6	▲ 2.1
New Bern	92.0	89.5	▲ 2.5	71.5	71.6	▼ 0.1
Greenville	92.7	89.9	▲ 2.8	71.5	70.7	▲ 0.8
Kinston	93.3	91.0	▲ 2.3	71.5	71.0	▲ 0.5
Williamston	90.3	88.6	▲ 1.7	72.1	68.9	▲ 3.2
Plymouth	90.7	89.4	▲ 1.3	70.7	70.0	▲ 0.7
Bayboro	90.2	89.3	▲ 0.9	69.8	71.4	▼ 1.6

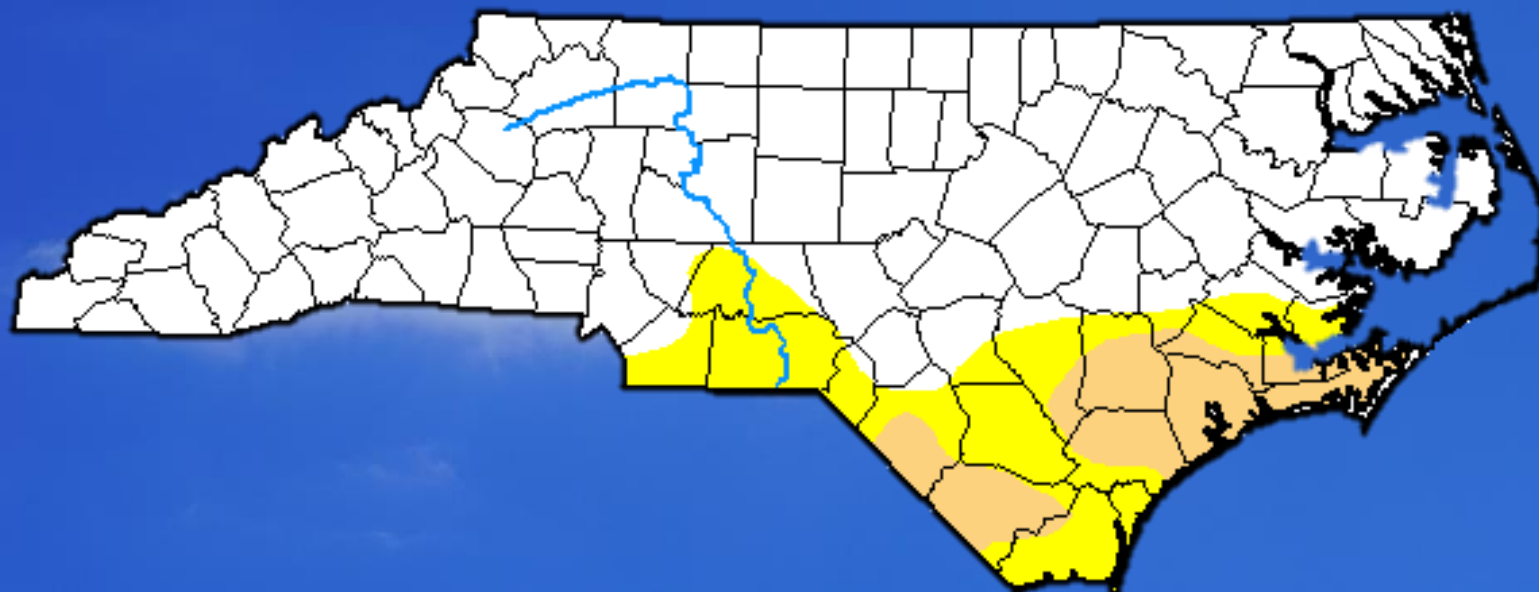
Red sites have missing data

Temperature Extremes: July 2019

	Max High	Date Obs.	Min Low	Date Obs.
Beaufort	94	1 st	64	28 th
Hatteras	92	16 th , 31 st	63	2 nd
New Bern	97	21 st	63	27 th , 29 th , 30 th
Greenville	100	3 rd	64	25 th , 27 th
Kinston	99	4 th	63	25 th , 27 th , 29 th
Williamston	95	4 th	65	25 th , 28 th
Plymouth	96	3 rd , 22 nd	62	27 th , 28 th
Bayboro	96	1 st , 22 nd	59	28 th , 29 th , 30 th

Red sites have missing data

Drought Monitor: North Carolina



July 30, 2019

(Released Thursday, Aug. 1, 2019)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	77.08	22.92	8.91	0.00	0.00	0.00
Last Week <i>07-23-2019</i>	63.29	36.71	8.71	0.00	0.00	0.00
3 Months Ago <i>04-30-2019</i>	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year <i>01-01-2019</i>	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year <i>09-25-2018</i>	100.00	0.00	0.00	0.00	0.00	0.00
One Year Ago <i>07-31-2018</i>	91.22	8.78	0.00	0.00	0.00	0.00

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

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

Author:

Curtis Riganti
National Drought Mitigation Center

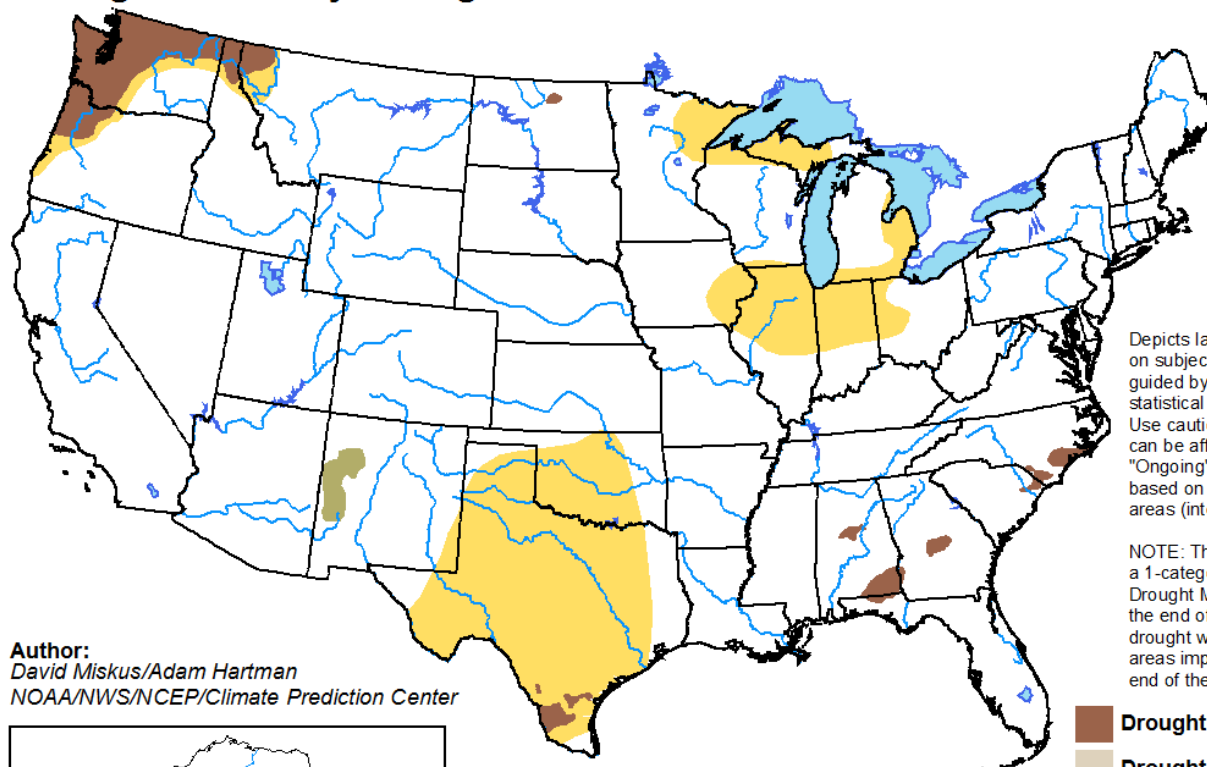


droughtmonitor.unl.edu

Monthly Drought Outlook

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

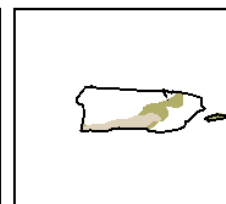
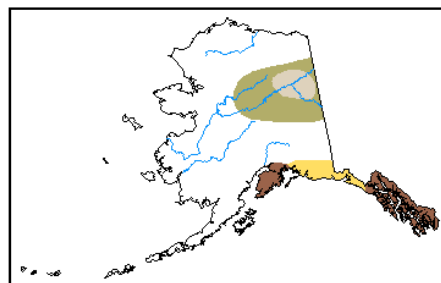
Valid for August 2019
Released July 31, 2019







Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

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).

Author:
David Miskus/Adam Hartman
NOAA/NWS/NCEP/Climate Prediction Center



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



<http://go.usa.gov/3eZGd>