

A vibrant display of fireworks exploding in the night sky over a body of water. The fireworks are in various colors including purple, green, red, and white. The water in the foreground is dark, and there are some faint lights visible on the shore.

July 2020 Climate Review

Presented By:

**National Weather Service
Newport/Morehead City, NC**

July 2020 Highlights



Tropical Storm Fay lifting towards New England on July 10, 2020. Image courtesy of NASA Worldview.

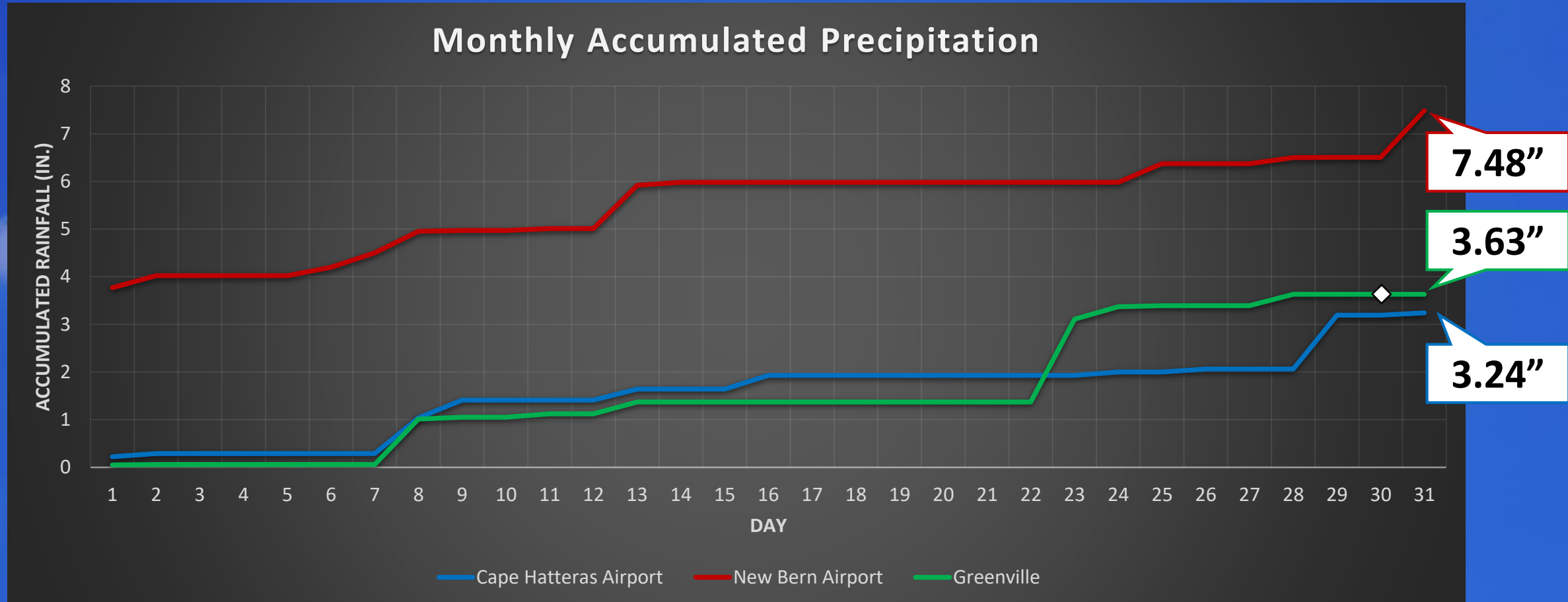
You Don't Say, Fay: An active tropical season continued in July with the development of Tropical Storm Fay just off the coast of the Outer Banks. Impacts were minimal with locally heavy rainfall and wind gusts up to 30 mph at times.

The Heat Is On: Above average temperatures plagued most of eastern North Carolina, and the Outer Banks stood out. Cape Hatteras saw its warmest July on record, over 2°F higher than the prior record.

Monthly Rankings

	Average Temp	Total Rainfall
Hatteras	Warmest	36 th Driest
New Bern	13 th Warmest	39 th Wettest

July 2020 Rainfall

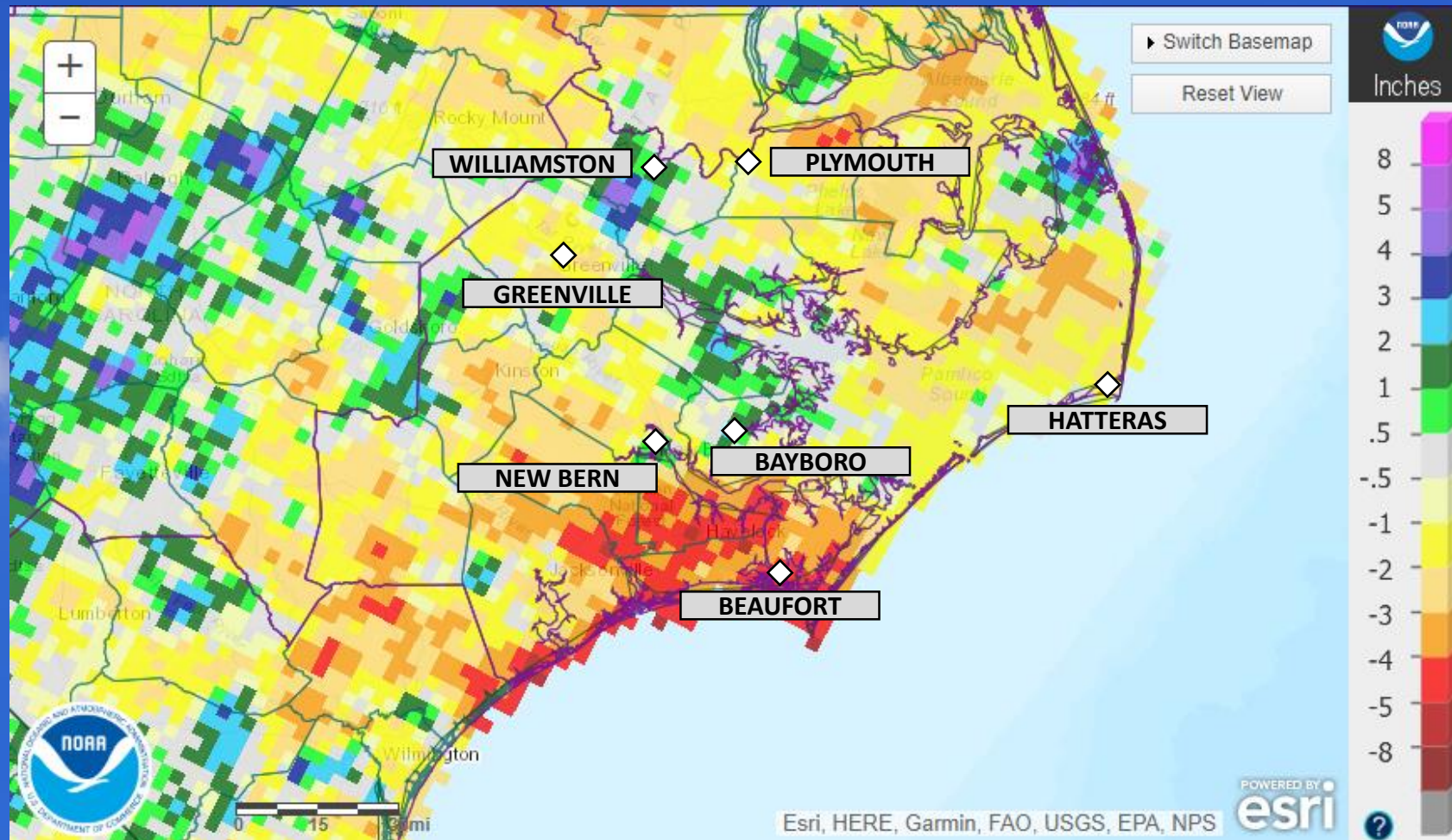


White diamonds denote missing 24-hour precipitation report. Asterisk denotes total with missing data.

July 2020 Rainfall vs. Climate Normal

	Observed (In.)	Normal	Difference
Beaufort	1.63	6.02	▼ 4.39
Hatteras	3.24	4.99	▼ 1.75
New Bern	7.48	6.17	▲ 1.31
Greenville	3.63	5.39	▼ 1.76
Williamston	6.61	5.29	▲ 1.32
Plymouth	2.29	5.34	▼ 3.05
Bayboro	9.72	6.27	▲ 3.45

Red sites have missing data



July 2020 Precipitation: Departure from Normal
 Analysis from the Advanced Hydrologic Prediction Service

Wettest and Driest Julys

	Cape Hatteras	Year Observed	New Bern	Year Observed
Wettest	20.31"	2018	16.05"	1937
2 nd Wettest	17.09"	1946	16.04"	1950
3 rd Wettest	13.59"	1933	13.88"	1975
4 th Wettest	12.50"	1929	12.24"	1963
5 th Wettest	12.10"	1924	12.23"	1946

	Cape Hatteras	Year Observed	New Bern	Year Observed
5 th Driest	1.40"	1942	3.04"	2011
4 th Driest	1.28"	2007	2.97"	2010
3 rd Driest	1.08"	1995	2.90"	1990
2 nd Driest	1.03"	1911	2.29"	1940
Driest	0.45"	1958	0.28"	1953

Average Temperatures: July 2020

	Average High	Normal High	Difference	Average Low	Normal Low	Difference
Beaufort	89.0	85.8	▲ 3.2	77.5	74.2	▲ 3.3
Hatteras	90.5	84.6	▲ 5.9	78.8	73.6	▲ 5.2
New Bern	91.2	89.5	▲ 1.7	72.8	71.6	▲ 1.2
Greenville	93.0	89.9	▲ 3.1	73.0	70.7	▲ 2.3
Kinston	92.4	91.0	▲ 1.4	72.6	71.0	▲ 1.6
Williamston	91.0	88.6	▲ 2.4	72.8	68.9	▲ 3.9
Plymouth	91.1	89.4	▲ 1.7	71.8	70.0	▲ 1.8
Bayboro	89.5	89.3	▲ 0.2	71.6	71.4	▲ 0.2

Red sites have missing data

Warmest and Coolest Julys By Avg. Temp

	Cape Hatteras	Year Observed	New Bern	Year Observed
Warmest	84.7°	2020	83.5°	1993
2 nd Warmest	82.2°	2011	83.1°	1991
3 rd Warmest	82.0°	2012	83.0°	1992
4 th Warmest	81.9°	1993	82.9°	1986, 2012, 2016
5 th Warmest	81.8°	2019	82.7°	2011

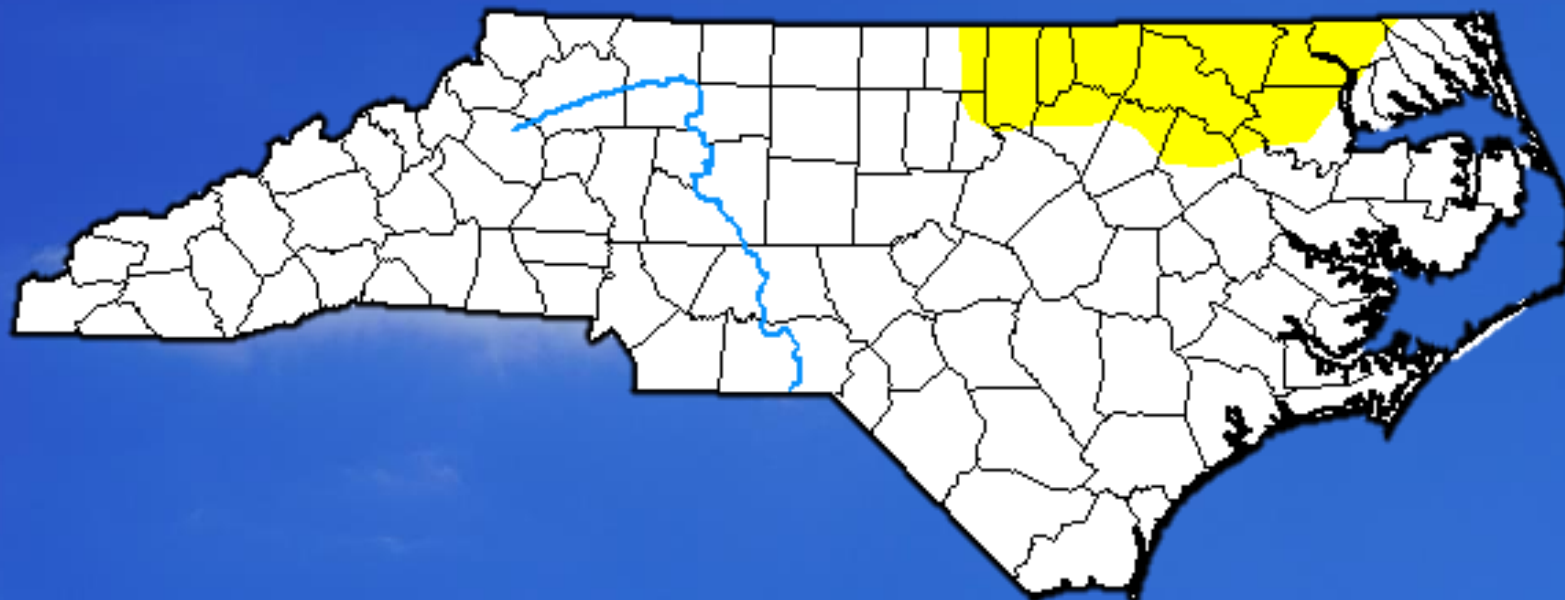
	Cape Hatteras	Year Observed	New Bern	Year Observed
5 th Coolest	76.7°	1909, 1947	77.5°	1964, 1967
4 th Coolest	76.6°	1946	77.3°	1975
3 rd Coolest	76.4°	1933, 1963	76.5°	1963
2 nd Coolest	75.8°	1920	76.3°	1965
Coolest	75.0°	1918	76.2°	2001

Temperature Extremes: July 2020

	Max High	Date Obs.	Min Low	Date Obs.
Beaufort	94	4 th	71	2 nd
Hatteras	94	4 th , 7 th	73	3 rd
New Bern	97	28 th	68	2 nd
Greenville	98	20 th , 22 nd	68	3 rd , 6 th
Kinston	97	21 st , 28 th , 29 th	68	6 th
Williamston	96	21 st , 22 nd , 23 rd	70	2 nd , 14 th , 16 th
Plymouth	96	20 th , 21 st	67	2 nd , 14 th , 16 th
Bayboro	94	21 st	68	2 nd , 3 rd , 6 th , 14 th

Red sites have missing data

Drought Monitor: North Carolina



July 28, 2020

(Released Thursday, Jul. 30, 2020)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	90.39	9.61	0.00	0.00	0.00	0.00
Last Week <i>07-21-2020</i>	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago <i>04-28-2020</i>	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year <i>12-31-2019</i>	93.61	6.39	0.00	0.00	0.00	0.00
Start of Water Year <i>10-01-2019</i>	37.68	62.32	41.69	4.40	0.00	0.00
One Year Ago <i>07-30-2019</i>	77.08	22.92	8.91	0.00	0.00	0.00

Intensity:

- None
- 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. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

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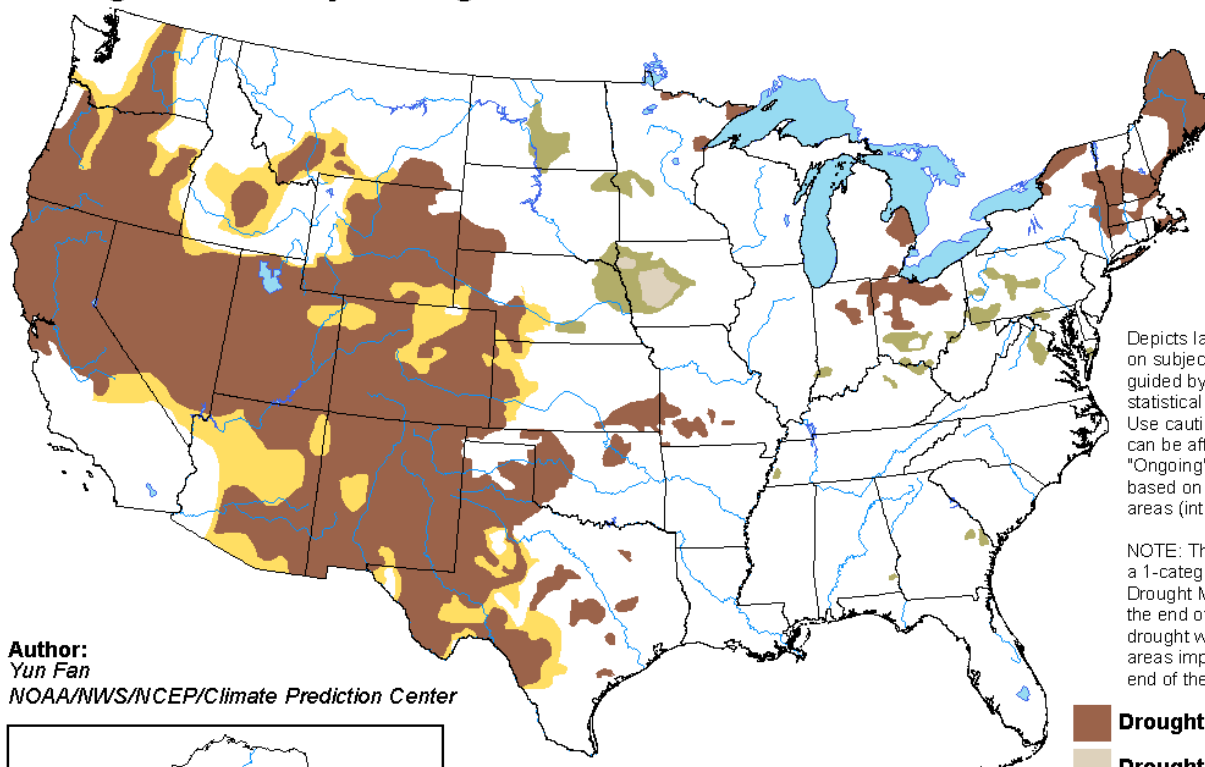


droughtmonitor.unl.edu

Monthly Drought Outlook

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

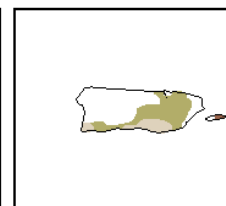
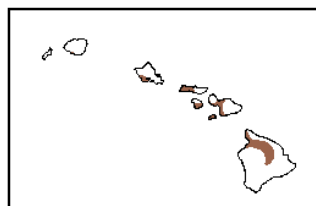
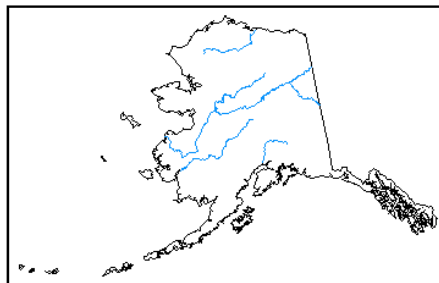
Valid for August 2020
Released July 31, 2020





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).

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



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