September 2020 Climate Review

Presented By:

National Weather Service

Newport/Morehead City, NC

September 2020 Highlights

Powerful swell flies over weakened dunes along Highway 12 on the Outer Banks of North Carolinas while NCDOT road crews attempt to rebuild.

Prolonged Coastal Flooding: The swell from Hurricane Teddy, combined with strong northerly winds and king tides, led to a prolonged period of coastal flooding along the Inner and Outer Banks to kick off the second half of September.

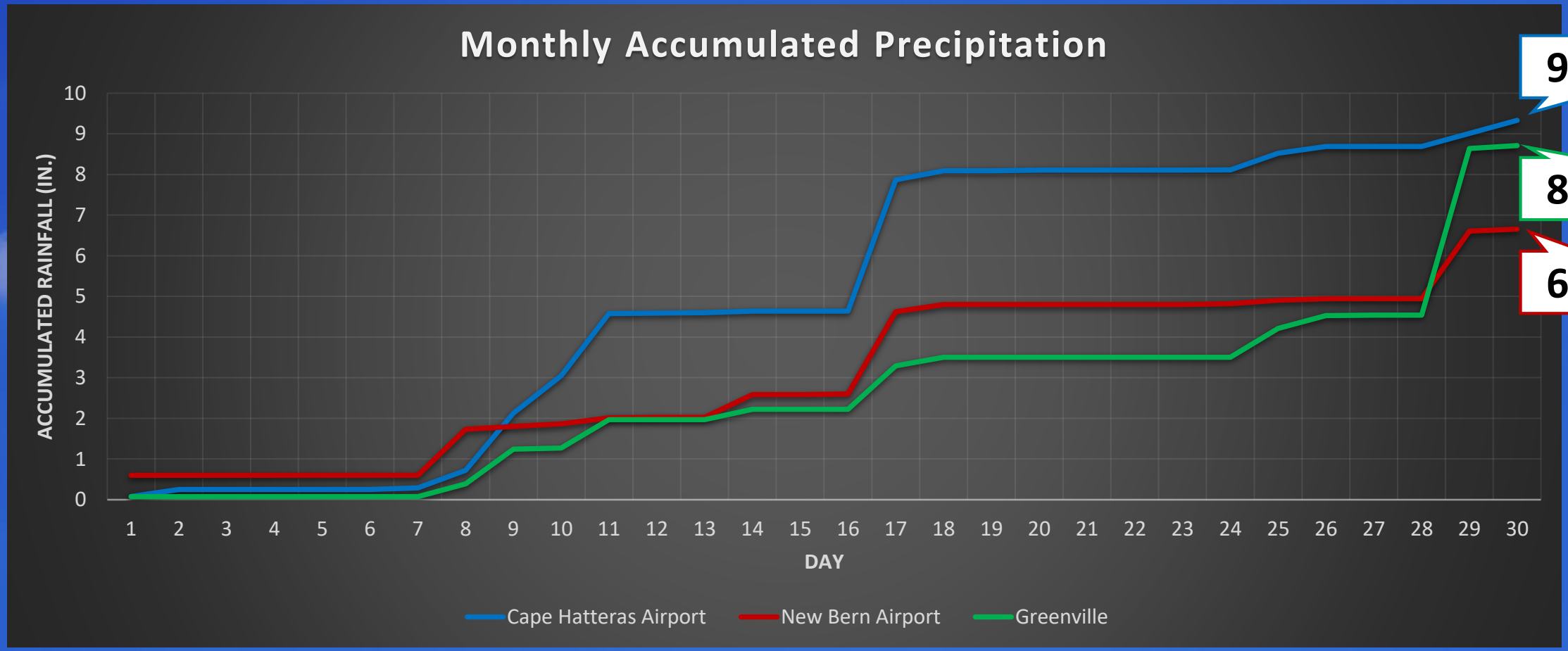
Late Month Severe: The month ended on an unsettled note with multiple reports of fallen trees and power outages across southern counties associated with a line of showers and thunderstorms.

Monthly Rankings

	Average Temp	Total Rainfall
Hatteras	27th Warmest	19th Wettest
New Bern	31st Coolest	32nd Wettest

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

September 2020 Rainfall

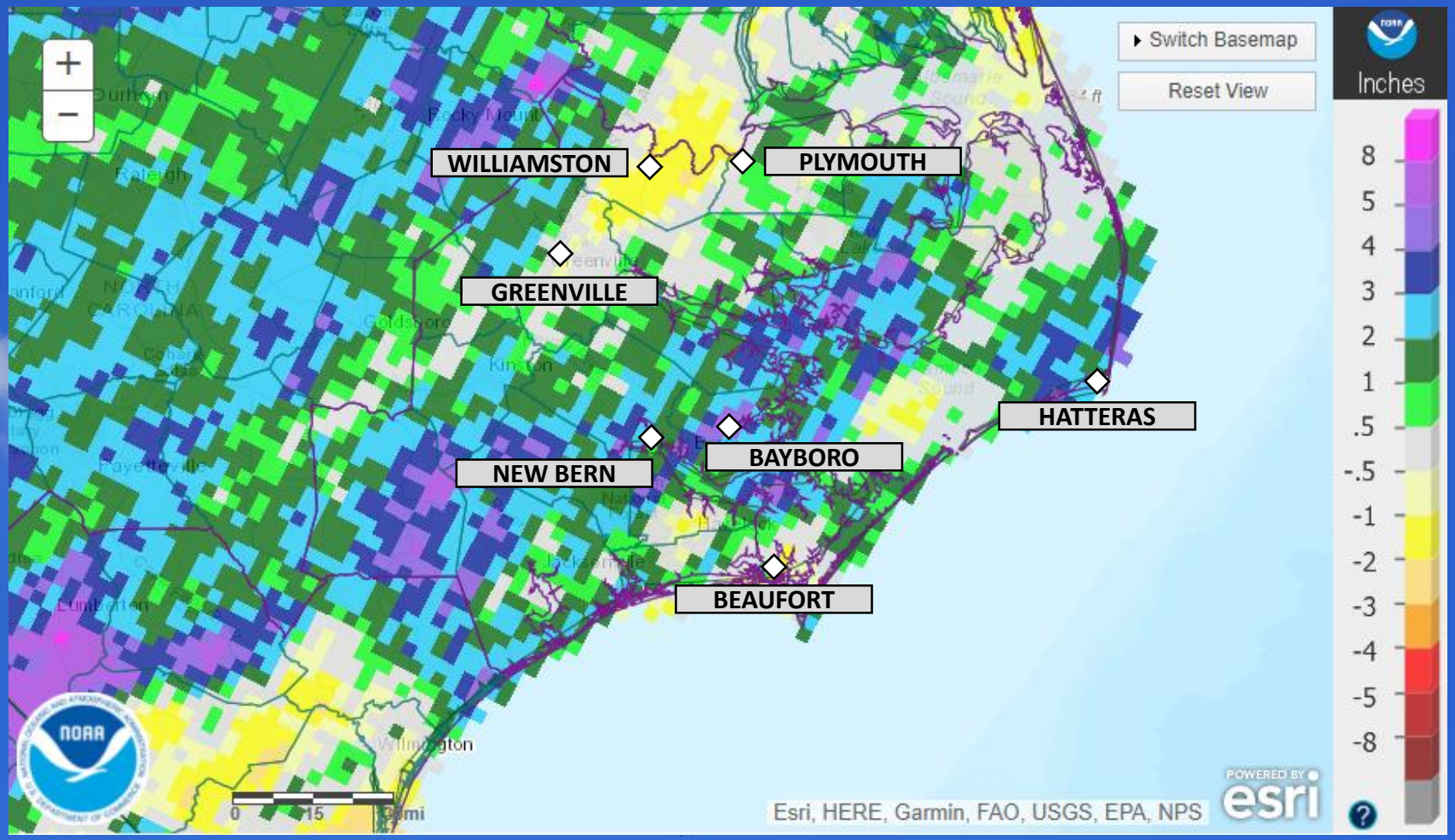


White diamonds denote missing 24-hour precipitation report. Asterisk denotes total with missing data.

September 2020 Rainfall vs. Climate Normal

	Observed (In.)	Normal	Difference
Beaufort	7.08	5.96	▲ 1.12
Hatteras	9.33	6.25	▲ 3.08
New Bern	6.65	5.89	▲ 0.76
Greenville	8.71	5.83	▲ 2.88
Williamston	5.40	6.07	▼ 0.67
Plymouth	5.90	5.39	▲ 0.51
Bayboro	9.70	5.88	▲ 3.82

Red sites have missing data



September 2020 Precipitation: Departure from Normal

Analysis from the Advanced Hydrologic Prediction Service

Wettest and Driest Septembers

	Cape Hatteras	Year Observed	New Bern	Year Observed
Wettest	20.00”	1989	19.43”	1955
2nd Wettest	17.55”	1928	18.39”	2018
3rd Wettest	16.43”	1955	16.79”	2010
4th Wettest	14.96”	1934	14.61”	1947
5th Wettest	14.23”	2011	13.93”	1984

	Cape Hatteras	Year Observed	New Bern	Year Observed
5th Driest	0.73”	1978	1.22”	1951
4th Driest	0.61”	1899	0.98”	1986
3rd Driest	0.59”	1990	0.87”	2001
2nd Driest	0.56”	1900	0.71”	1943
Driest	0.08”	1986	0.27”	1941

Average Temperatures: September 2020

	Average High	Normal High	Difference	Average Low	Normal Low	Difference
Beaufort	82.0	80.9	▲ 1.1	69.4	68.0	▲ 1.4
Hatteras	81.4	79.9	▲ 1.5	71.2	69.0	▲ 2.2
New Bern	81.6	82.9	▼ 1.3	65.7	64.9	▲ 0.8
Greenville	80.8	82.9	▼ 2.1	64.4	62.9	▲ 1.5
Kinston	81.7	84.4	▼ 2.7	63.7	63.6	▲ 0.1
Williamston	81.0	81.8	▼ 0.8	64.1	61.1	▲ 3.0
Plymouth	81.1	82.7	▼ 1.6	65.8	62.9	▲ 2.9
Bayboro	81.5	83.2	▼ 1.7	65.0	63.9	▲ 1.1

Red sites have missing data

Warmest and Coolest Septembers By Avg. Temp

	Cape Hatteras	Year Observed	New Bern	Year Observed
Warmest	81.4°	2018	79.9°	1933
2nd Warmest	79.2°	1933	78.4°	2018
3rd Warmest	78.5°	2016	78.3°	1945
4th Warmest	78.4°	1930	77.6°	1980
5th Warmest	78.3°	1945, 1906	77.5°	1936

	Cape Hatteras	Year Observed	New Bern	Year Observed
5th Coolest	71.8°	1924, 1976	71.0°	1966
4th Coolest	71.6°	1918	70.8°	2006
3rd Coolest	71.5°	1917, 1981	70.7°	2001
2nd Coolest	70.5°	1963	68.2°	1963
Coolest	68.8°	1967	67.4°	1967

Temperature Extremes: September 2020

	Max High	Date Obs.	Min Low	Date Obs.
Beaufort	93	4th	51	23rd
Hatteras	92	4th	55	22nd
New Bern	95	3rd	48	23rd
Greenville	95	3rd	49	23rd
Kinston	96	4th	48	23rd
Williamston	95	4th	49	23rd
Plymouth	93	3rd, 4th	48	23rd
Bayboro	93	3rd, 4th, 5th	46	23rd, 24th

Red sites have missing data

Drought Monitor: North Carolina

September 29, 2020

(Released Thursday, Oct. 1, 2020)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	100.00	0.00	0.00	0.00	0.00	0.00
Last Week *09-22-2020*	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago *06-30-2020*	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year *12-31-2019*	93.61	6.39	0.00	0.00	0.00	0.00
Start of Water Year *10-01-2019*	37.68	62.32	41.69	4.40	0.00	0.00
One Year Ago *10-01-2019*	37.68	62.32	41.69	4.40	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