Climate Overview

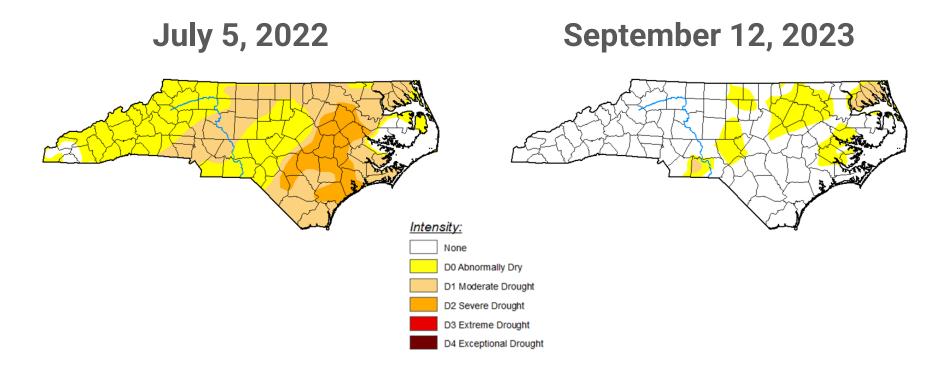
Since July 2022

Corey Davis

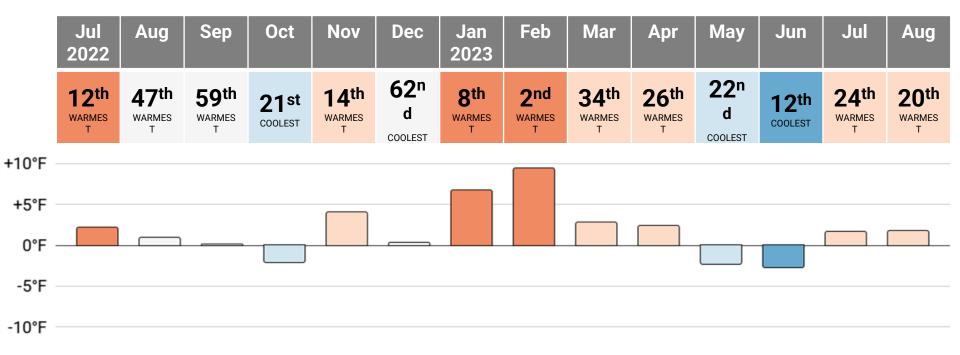
Assistant State Climatologist
State Climate Office



Our Drought Status, Then and Now



Monthly Statewide Temperatures

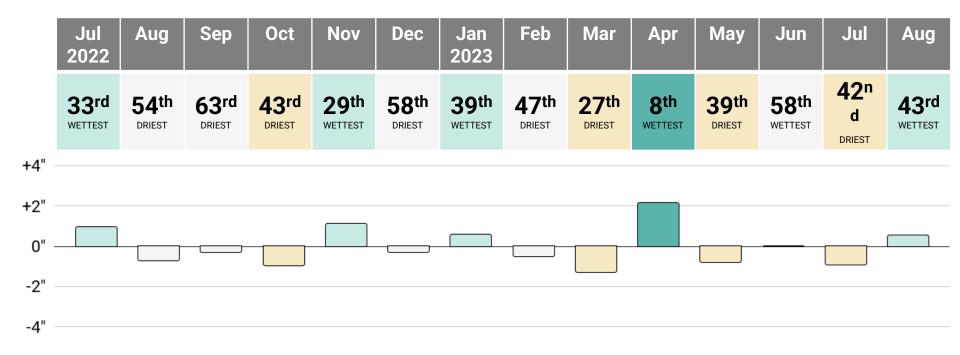


Departures compared to 1901 to 2000

Rankings based on data since 1895



Monthly Statewide Precipitation



Departures compared to 1901 to 2000

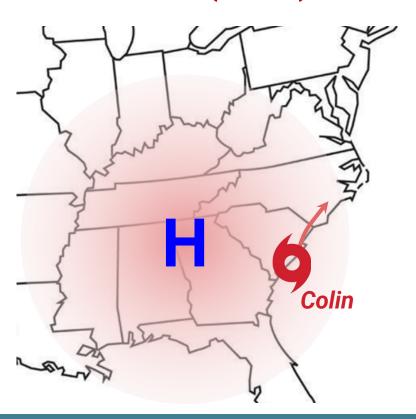
Rankings based on data since 1895

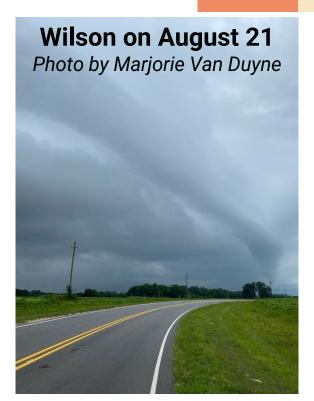


Summer (JJA) 2022

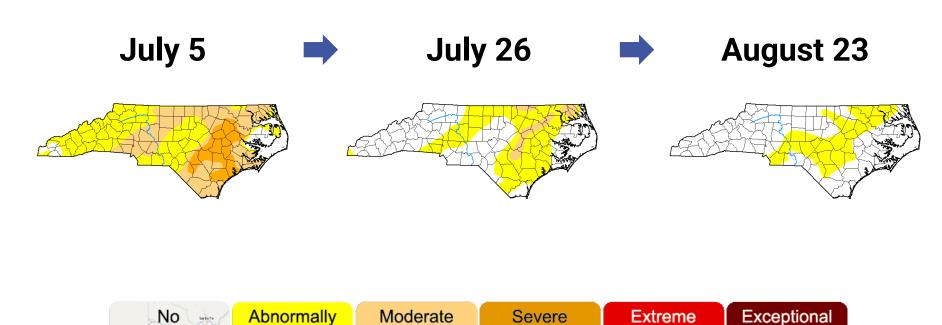
13th WARMEST

35th





Summer Drought Improvement



Drought

Drought

Drought

Drought

U.S. Drought Monitor

Dry

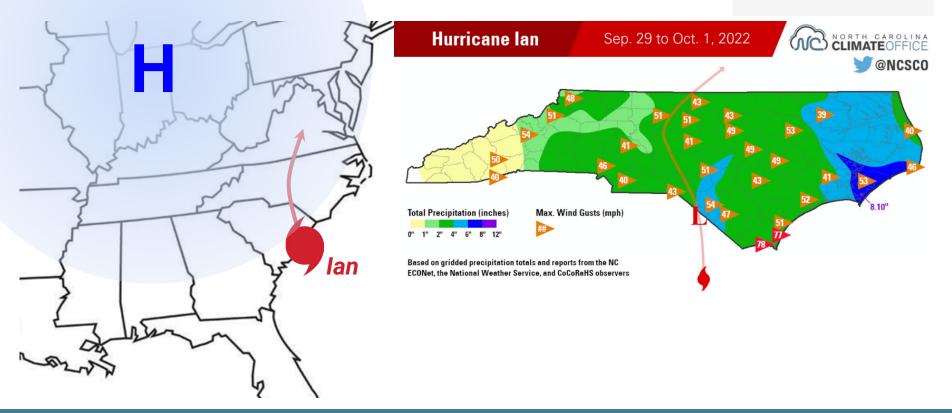
Drought

Fall (SON) 2022

48th

60th **DRIEST**

WARMEST



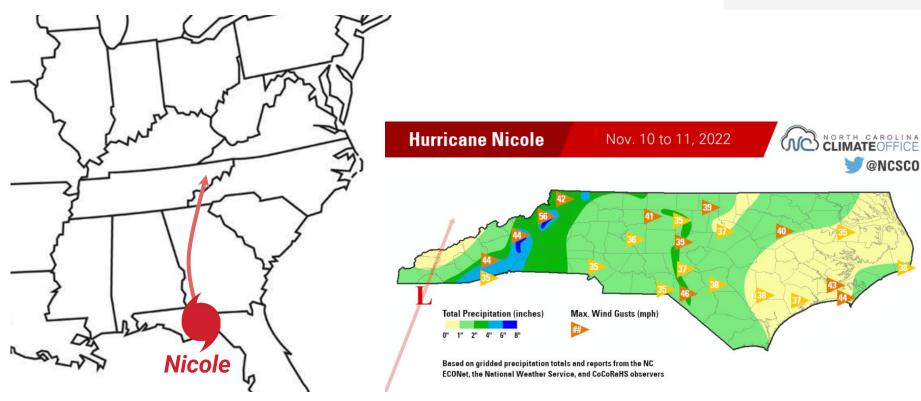
Fall (SON) 2022

48th

60th

WARMEST

DRIEST



Drought During the Fall

September 27 October 25 November 29

No state
Drought

Abnormally Dry

Moderate Drought Severe Drought Extreme Drought

Exceptional Drought

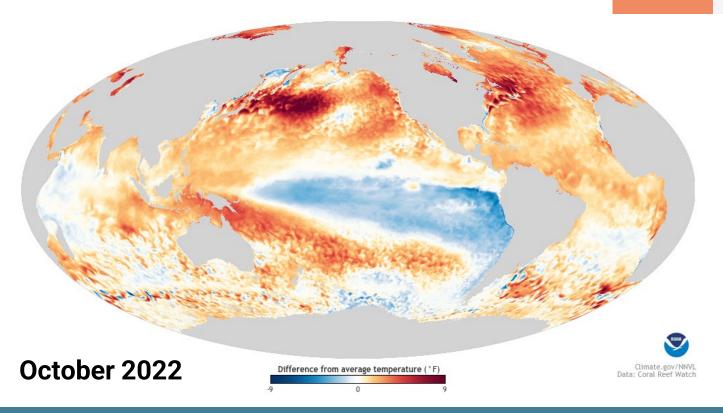
U.S. Drought Monitor



Winter (DJF) 2022-23

5th WARMEST

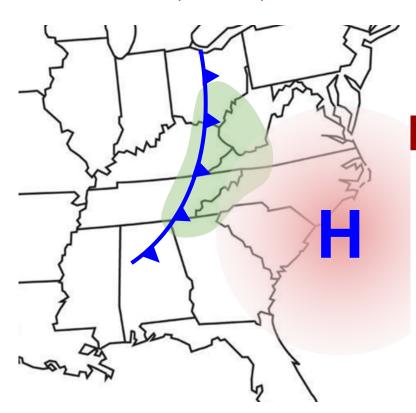
63rd WETTEST



Winter (DJF) 2022-23

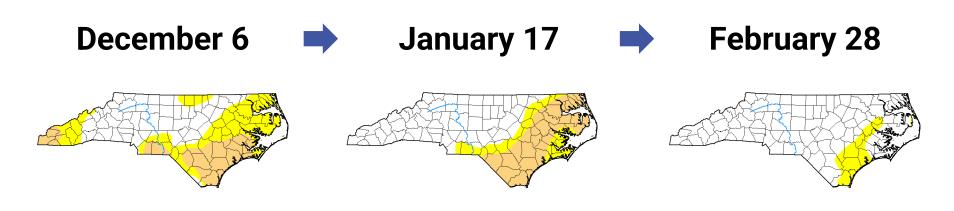
5th WARMEST

63rd WETTEST





Winter Drought Dormancy



No Drought

Abnormally Dry

Moderate Drought Severe Drought

Extreme Drought

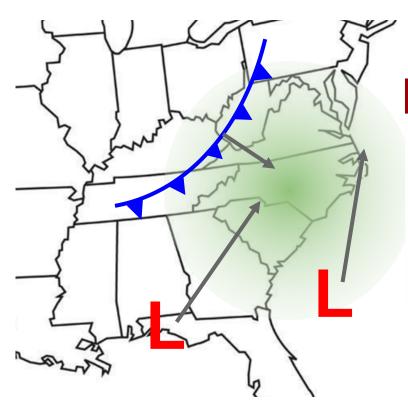
Exceptional Drought

U.S. Drought Monitor



Spring (MAM) 2023

43rd WARMEST 60th



Weekend Precipitation Totals

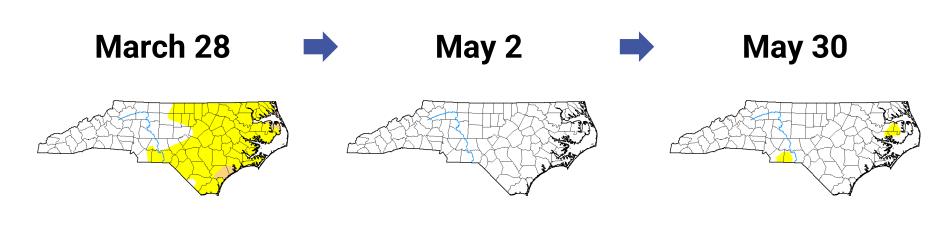
Jan. to Apr. 2023



Location	Jan. 7-8	Jan. 14-15	Jan. 21-22	Jan. 28-29	Feb. 4-5	Feb. 11-12	Feb. 18-19	Feb. 25-26	Mar. 4-5	Mar. 11-12	Mar. 18-19	Mar. 25-26	Apr. 1-2	Apr. 8-9	Apr. 15-16	Apr. 22-23	Apr. 29-30
Asheville	0.33	Trace	0.40	0.07	0	0.89	0	0.09	0	0.51	0	0.24	0.29	1.05	0.03	0.59	0.31
Charlotte	0.26	0	1.11	0.19	0	1.76	0	0.05	0	0.46	0.06	0.25	0.13	1.35	0.01	0.33	0.21
Greensboro	0.18	Trace	0.78	0.12	0	1.29	0	0.02	0	0.30	0.03	0.28	0.25	0.59	Trace	0.20	0.57
Raleigh	0.12	0.01	0.71	0.04	Trace	1.34	0.01	0.12	0	0.57	0.20	0.28	0.02	1.44	Trace	0.66	1.36
Wilmington	0	0	1.79	0.02	0.23	2.19	0	0.08	Trace	0.42	0.20	0.59	0	2.14	Trace	0.82	0.82
Hatteras	0.16	0.02	1.17	0	0.08	2.33	0.02	0.14	0	0.11	0.22	0.59	Trace	1.77	0.49	0.45	2.83

No Precipitation Trace 0.01 to 0.25" 0.25 to 1.00" 1.00"+

April Shower Improvements



No State Drought

Abnormally Dry Moderate Drought Severe Drought

Extreme Drought

Exceptional Drought

U.S. Drought Monitor



Summer (JJA) 2023

61st

59th DRIEST

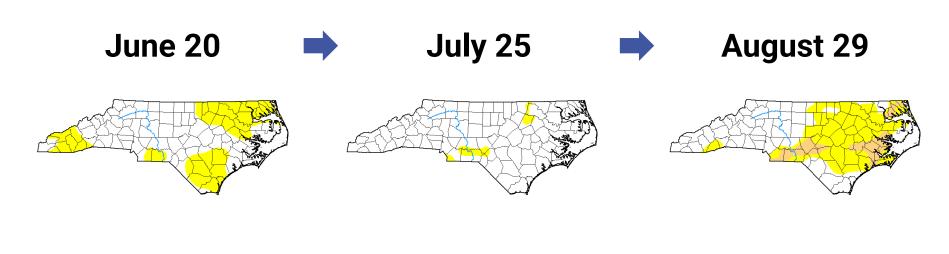
COOLEST





Nash/Edgecombe tornado, July 19

Spotty Summer Dryness



No Store Drought

Abnormally Dry Moderate Drought Severe Drought

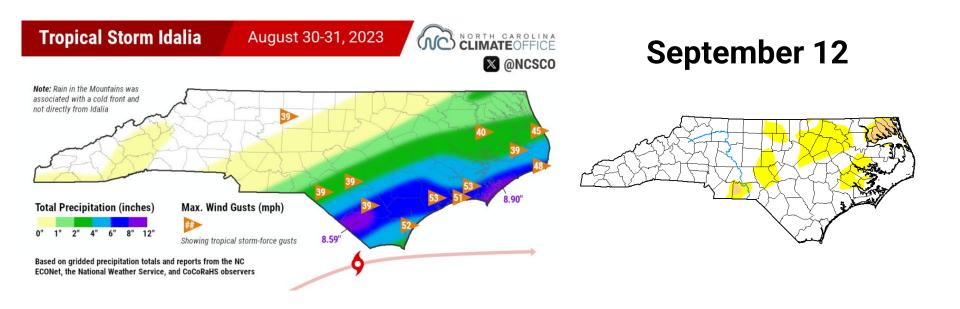
Extreme Drought

Exceptional Drought

U.S. Drought Monitor



Recent Improvements



Past 30 Days (Aug. 21 to Sep. 19)

O Wettest Spot:

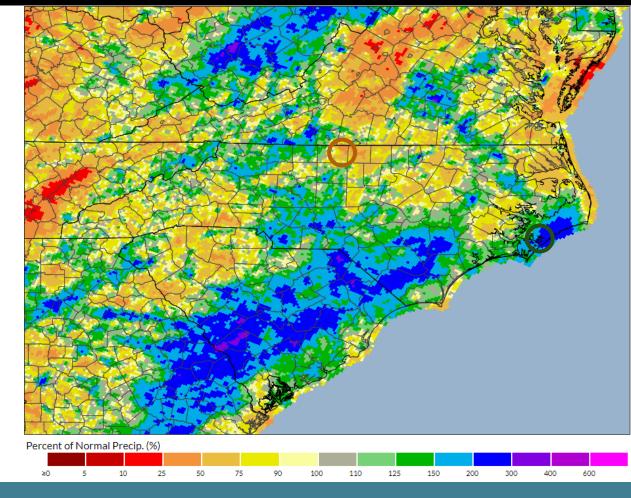
Cedar Island: 14.84"

(217% of normal)

O Driest Spot:

Reidsville: 1.96"

(53% of normal)



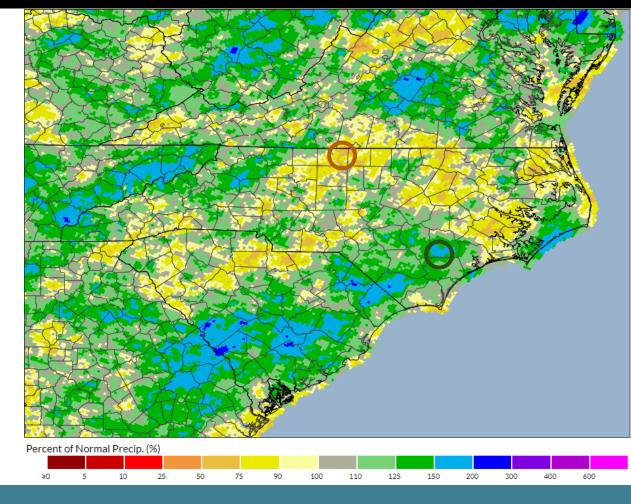
Past 90 Days (Jun. 22 to Sep. 19)

O Wettest Spot:

Wallace: 25.58" (145% of normal)

O Driest Spot:

Reidsville: 7.71" (77% of normal)



Past 6 Months (Mar. 24 to Sep. 19)

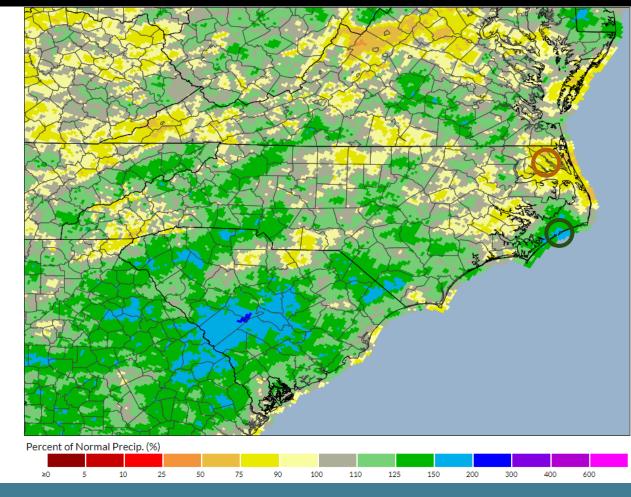
O Wettest Spot:

Ocracoke: 43.97" (151% of normal)

O Driest Spot:

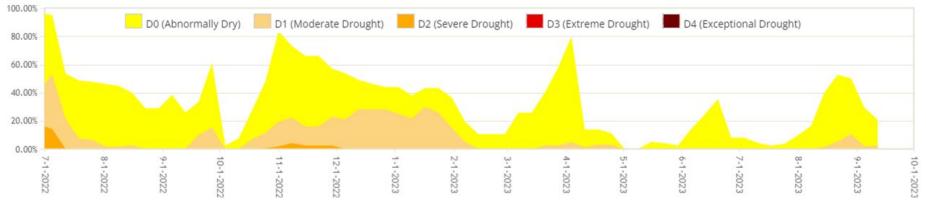
Elizabeth City: 16.77"

(62% of normal)



In Summary

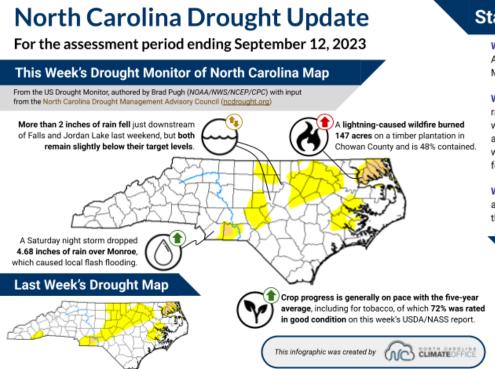




- Statewide, few prolonged wet or dry periods
- Timely rainfall (especially tropical systems) helped
- Limited drought even in La Niña winter and hot summer



Weekly Drought Updates



Statewide Condition Summary

What's Changed? Locally heavy rainfall improved some Abnormally Dry (D0) areas, including the Triangle, but Moderate Drought (D1) expanded in the northeast.

What's New? Last weekend's showers brought an inch of rain or more to many Piedmont and Mountain locations, with some areas seeing up to 5 inches. In the east, it was a drier week in the wake of Tropical Storm Idalia, which was good for farmers to get in the fields but not so great for the dry soils and groundwater wells in the northeast.

What's Next? High pressure to our north will bring cooler and less humid weather this weekend, but rainfall over the next week will be limited to light showers on Sunday.

Statewide Coverage By Category

Category	Coverage This Week	Change Since Last Week			
DO: Abnormally Dry	18.39%	-9.04%			
D1: Moderate Drought	2.31%	+0.34%			
D2: Severe Drought	0.00%	0.00%			
D3: Extreme Drought	0.00%	0.00%			
D4: Exceptional Drought	0.00%	0.00%			

Questions?

Contact me:

cndavis@ncsu.edu

