

SC State Climatology Office Team



Hope Mizzell South Carolina State Climatologist



Melissa Griffin Assistant State Climatologist



Elliot Wickham Water Resource Climatologist



Frank Strait Severe Weather Liaison



What Is A State Climatology Office?

Promote climate and weather awareness and knowledge through the development and delivery of science-based climate services and tools on a local and state level.







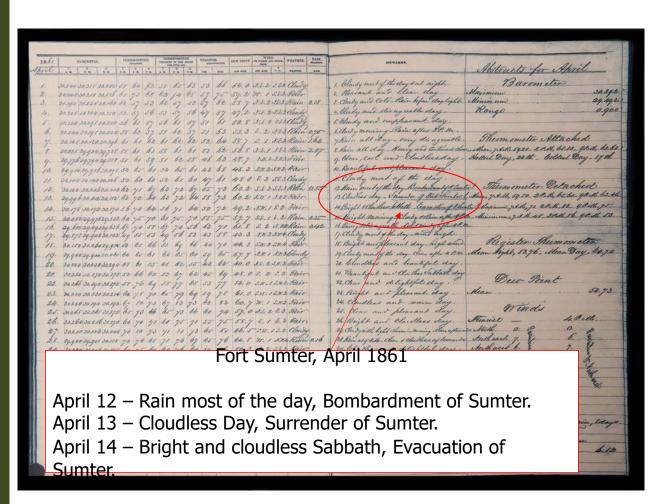








Climatological Data Services







Climatological

Data Services

Rainfall data and radar imagery for reconstruction of an automobile accident.

Low temperatures for North Charleston to determine current chill hours for plants.

Lightning data and strike confirmation for damage to equipment at Columbia Metro Airport.

Media interview about the warmest and coldest Decembers.

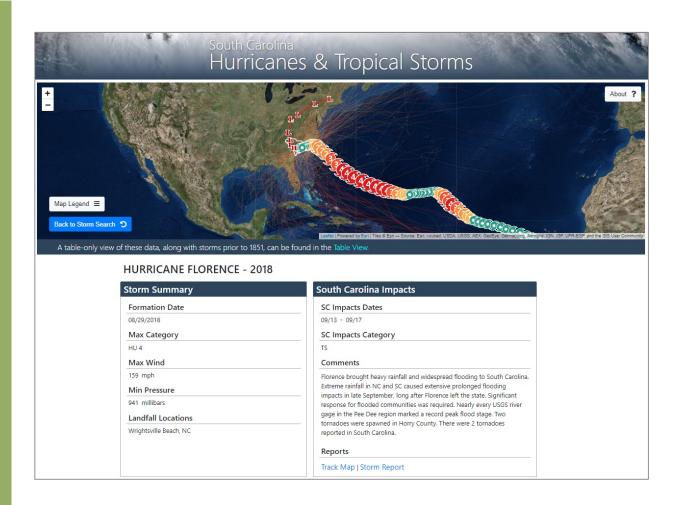
Hourly barometric pressure to verify SCDHEC water level data from ground well sensors.

Appear in court and have been deposed to speak about conditions for litigation purposes.

SCDNR State Climatology Office



Databases and Tools

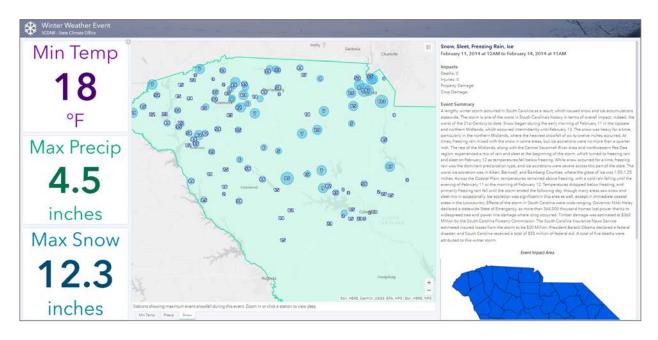


https://www.dnr.sc.gov/climate/sco/hurricanes/





Databases and **Tools**









https://www.dnr.sc.gov/climate/scoscwinterweathe

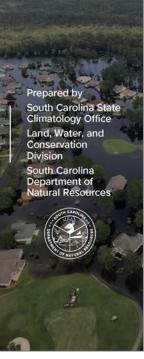




Databases and **Tools**

Keystone
Riverine
Flooding
Events in
South
Carolina

Flooding in Loris, SC from Florence in 2018



THE BAHAMAS HURRICANE SEPTEMBER – OCTOBER 1929

Heavy pre-hurricane rainfall fell over the region from September 23 – 28. This rainfall produced higher than normal river levels and some flooding across portions of the Savannah and Upper Santee river basins.



X
30
1, 1929

The remnants of the Bahamas Hurricane moved from the Gulf northeastward over the Southeast, bringing excessive rains across areas impacted by heavy rains at the end of September. Damaging floods were reported on most streams and rivers, where "previous high-water marks were overtopped twice in one week," and "the Savannah River at Augusta set a record crest of 45.1 feet," 13 feet above flood stage.

Rainfall Totals (Sep 28 – Oct 3)	Station	County	
10.98"	Saluda	Saluda	
10.56*	Edgefield 3 NNE	Edgefield	
10.25*	Newberry	Newberry	
10.17"	Greenwood	Greenwood	
9.70"	Camden 3 W	Kershaw	
8.74"	Aiken 5 SE	Aiken	
8.67"	Fort Mill 4 NW	York	

River and station	Flood	Above	dood date	stages-	Ci	est
	stage	From	-	то-	Stage	thate
ATLANTIC DRAINAGE—continued						
Santee: Rimini, S. C. Fergason, S. C. Jamestown, S. C.	Feet 1 12 12	2	(0) 1 7	8	Feet 31.8 21.0 28.1	11-1
Mount Holly, N. C.	15 12	1	2	2	19.0 18.7	
Wateree Camden, 8, C. Malva, 8, C. Congaree: Columbia, 8, C. Broad: Blairs, 8, C.	24 14 15 15	1 8	2 4 7 1	1 6 5	36.0 16.0 31.1 29.5	
Petzer, S. C	7	(T)	1 22	20 6	11.6 8.6 30.7	2
davannah:		1 3	n	24	17.9	
Calioren Falls, S. C. Augusta, Ga. Pende	32		1	3	10.1 45.1	2-
Cheese, S. C. Maes Bloff, S. C. Poston, S. C. Lynches Effingham, S. C.	27 17 18 14		2 3 6 6	6 14 17 10	39.5 27.3 26.5 19.4	





Outreach and Education



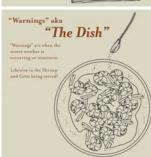














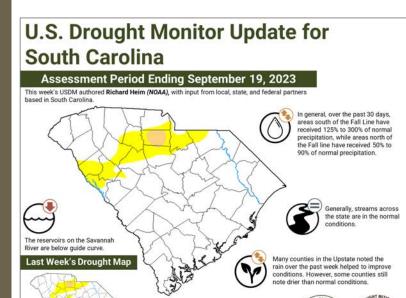


Outreach and Education





Drought Monitoring and Response



please contact Elliot Wickham (wickhame@dnr.sc.gov),
Water Resources Climatologist for the SCDNR

Statewide Condition Summary

What's New? Addition of abnormally dry (D0) conditions in the Savannah River basin and removal of D0 conditions in Lexington and Richland counties.

What's Changed? Over the past week, the state received between 0.00" and 2.00", with localized amounts reaching over 5.00". Lexington and Richland counties received 2.00" or more inches of rain over the last week, allowing D0 conditions to be removed. D0 conditions were added in Abbeville and McCormick counties, where below normal precipitation over the past 2 months has allowed Lake Thurmond water levels to drop to "Drought Level 1" status. The other lakes in the Upper Savannah River basin also have below normal water levels but have higher rain accumulation over the past 2 months.

What's Next? The forecast through Tuesday morning shows that the potential for rain is highest in the Pee Dee Region, particularly along the coast. Totals will range from 0.50" to 3.00". Rain totals for the rest of the state will likely be less than 0.25". Through the period, daytime high temperatures will range from the low 70s to the mid 80s. It is likely for abnormally dry (D0) to expand next week.

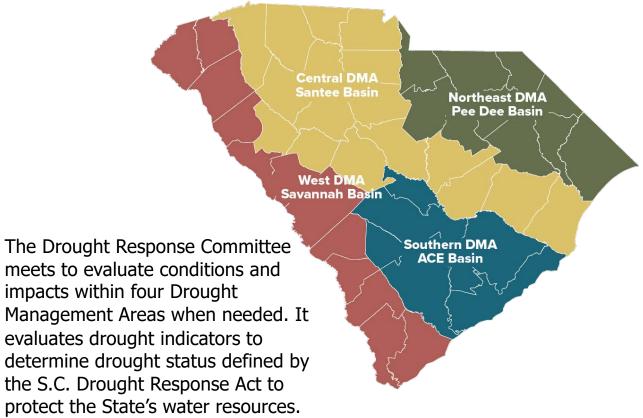
Statewide Coverage By Category

Category	Categorical Coverage This Week	Change Since Last Week
D0: Abnormally Dry	11.57%	+1.63%
D1: Moderate Drought	1.19%	0.00%
D2: Severe Drought	0.00%	0.00%
D3: Extreme Drought	0.00%	0.00%
D4: Exceptional Drought	0.00%	0.00%

"Plus sign on "Change Since Last Week" indicates expansion of category area, minus sign indicates reduction of category area

https://www.scdrought.com









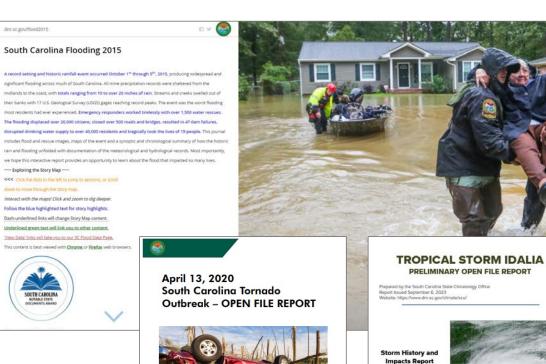
Severe
Weather
Operations
and
Assessments







Severe Weather **Operations** and **Assessments**











Contact Information

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