

Summary

A few dry months in the spring and summer of 2015 were enough to kick-start a flash drought in the western Piedmont. Although brief — drought was gone by early October — it did cause lake levels to drop and water conservation measures to be implemented.

Statistics For the Charlotte Douglas Airport				DM	
2015	Feb	-7.1°	-0.3"	none	
	Mar	+2.3°	-1.8"	none	
	Apr	+2.2°	+3.1"	DO	
	May	+3.7°	-2.9"	none	
	Jun	+4.1°	-0.8"	DO	
	Jul	+2.8°	-2.5"	DI	
	Aug	+1.5°	-0.4"	DI	
	Sep	+1.5°	-0.5"	DI	
	Oct	-0.6°	+2.2"	none	
	Nov	+3.1°	+6.9"	none	

Narrative

The spring weather was highly variable. March was warm and dry, then April saw an active jet stream bring regular rainfall, which eliminated any emerging dryness in western NC.



Clark's Creek in Charlotte runs low, from John Simmons (Charlotte Observer) The large-scale pattern again reversed in May, with jet stream ridging over the Southeast US causing a month of bone-dry weather. Charlotte had 6.14" of rain in April but just 0.32" in May.

With **ongoing ridging and 100°F heat** in June, Moderate Drought (D1) emerged in the western Piedmont as streamflows rapidly declined.

Increased evaporation and demand during a hot July escalated the Catawba-Wateree basin to Stage 1 of the Low Inflow Protocol, with **voluntary conservation recommended**.

Amid the state's 8th-warmest summer on record, Severe Drought (D2) expanded across the western Piedmont by late August, with reservoirs along the Catawba River **3 to 4 feet below targets** — the lowest levels since 2007.



US Drought Monitor, Sep. 22, 2015

In late September and early October, tropical moisture poured in to fuel a week of heavy rainfall. With 4 to 8 inches of precipitation especially upstream, **lakes and streams were topped off**, and the drought was ended, by this one event.

Monthly Temperature Rankings:

Record Coolest	Coolest 10%	Coolest 33%	Near Normal	Warmest 33%	Warmest 10%	Record Warmest
Monthly Dr	ocinitation	Donkings				

Monthly Precipitation Rankings:

Record Driest	Driest 10%	Driest 33%	Near Normal	Wettest 33%	Wettest 10%	Record Wettest
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US Drought Monitor Categories:

DM

Timeline Legend

Most common US Drought Monitor category in **Charlotte**, by area covered.

Temp. and precip. departures from 1901-2000 normal for the **Charlotte Douglas Airport**,

from the National Centers for Environmental Information.