

## Summary

A broader drought across the Southeast US expanded into western North Carolina during summer 2016. Fueled by the ongoing hot, dry weather persisting unusually late into the year, the fall fire season was especially active and intense in the southern Appalachians.

Stati For the sou Mountain	uthern			DM
2016	Aug	+3.2°	+0.2"	DO
	Sep	+4.3°	-2.4"	DI
	Oct	+3.8°	-3.3"	D2
	Nov	+4.1°	-2.1"	D3
	Dec	+3.2°	-0.5"	D2
2017	Jan	+6.0°	-0.4"	D2
	Feb	+7.2°	-3.2"	DI
	Mar	+1.0°	-0.0"	D2
	Apr	+5.2°	+2.5"	DI
	May	+0.5°	+2.7"	none

## Narrative

Driven by **sustained high pressure over the Southeast US**, the severe drought centered on northern Georgia reached far western North Carolina by mid-summer 2016, but near-normal rainfall in August slowed its eastward expansion.

After **three weeks of limited precipitation** to start September, Moderate Drought (D1) expanded across the southern Mountains.

While parts of eastern NC were flooded by Hurricane Matthew, Asheville recorded just 0.01 inches of rain from Oct. 9 to Nov. 27.

Dead grasses and other vegetation **increased the fuel load** that could be easily ignited by a spark. Between lightning, campfires, and arson, the first sparks began in mid-October.

At least 26 wildfires consumed more than 62,000 acres in NC, with their spread aided by the ongoing dry weather and several windy days.

A series of cold fronts beginning in late November brought needed rainfall, and the ongoing fires were largely contained by mid-December.



The Party Rock fire burns near Lake Lure. (Photo from NCFS)



US Drought Monitor, Nov. 29, 2016

Drought remained throughout the 2016-17 winter and briefly reintensified after a dry February, leading to **spotty fires in March**.

A southward-sagging jet stream by late April meant **more storm** systems crossing the state, heavy rain, and the end of drought.

## **Monthly Temperature Rankings:**

		•							
	Record Coolest	Coolest 10%	Coolest 33%	Near Normal	Warmest 33%	Warmest 10%	Record Warmest		
Monthly Precipitation Rankings:									
	Record Driest	Driest 10%	Driest 33%	Near Normal	Wettest 33%	Wettest 10%	Record Wettest		

## **US Drought Monitor Categories:**

D0: Abnormally Dry D1: Moderate Drought D2: Severe Drought D3: Extreme Drought D4: Exceptional Drought

DM

**Timeline Legend** 

Most common US Drought Monitor category in the **southern Mountains**, by area covered.

Temp. and precip. departures from 1901-2000 normal in the **southern Mountains**, from the National Centers for Environmental Information.