



Subcommittee on Disaster Reduction

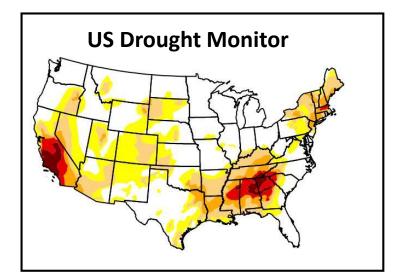
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USDA Forest Service R&D



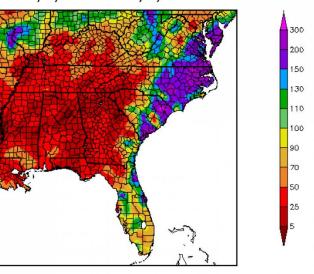


- To-date wildfires have burned 1.5 m acres in the Southeast U.S. in 2016.
- In late October, an area of exceptional drought developed in southern TN & KY, NC, SC, and northern AL & GA.



November 8, 2016

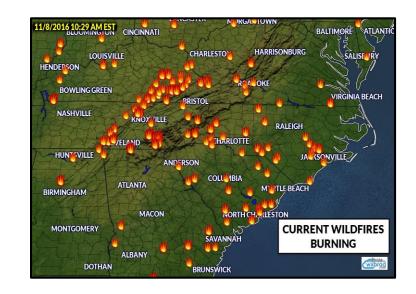
Percent of Normal Precipitation (%) 9/9/2016 - 11/7/2016





Generated 11/8/2016 at HPRCC using provisional data

- By the first week of November, dozens of wildfires were burning across the southeastern states, centered on the southern Appalachians.
- The vast majority of these fires were human caused, with arson as the cause of most.
- Air quality was extremely low in the region, as fires tended to have extended smoldering periods due to deep organic soil layers.





MODIS – Nov. 2016





- By the middle of Nov. the US Forest Service was tracking 33 large fires that had burned over 90,000 acres.
- In NC, the Tellico and Party Rock fires caused thousands to evacuate and burned 22,000 acres
- In GA the Rough Ridge Fire in the Couhutta Wilderness bunred 28,000 acres



Tellico Fire, NC, 2016



Party Rock Fire, NC, 2016



Rough Ridge Fire, GA, 2016







- By Nov. 21 64 fires had burned nearly 23,000 acres in TN with well over half arson-caused.
- On Nov. 28 the Chimney Tops 2 and Cobbly Knob fires started in Great Smoky Mountains National Park.
- With the aid of strong winds, the fires spotted across ridges and burned throughout the mountains surrounding Gatlinburg.

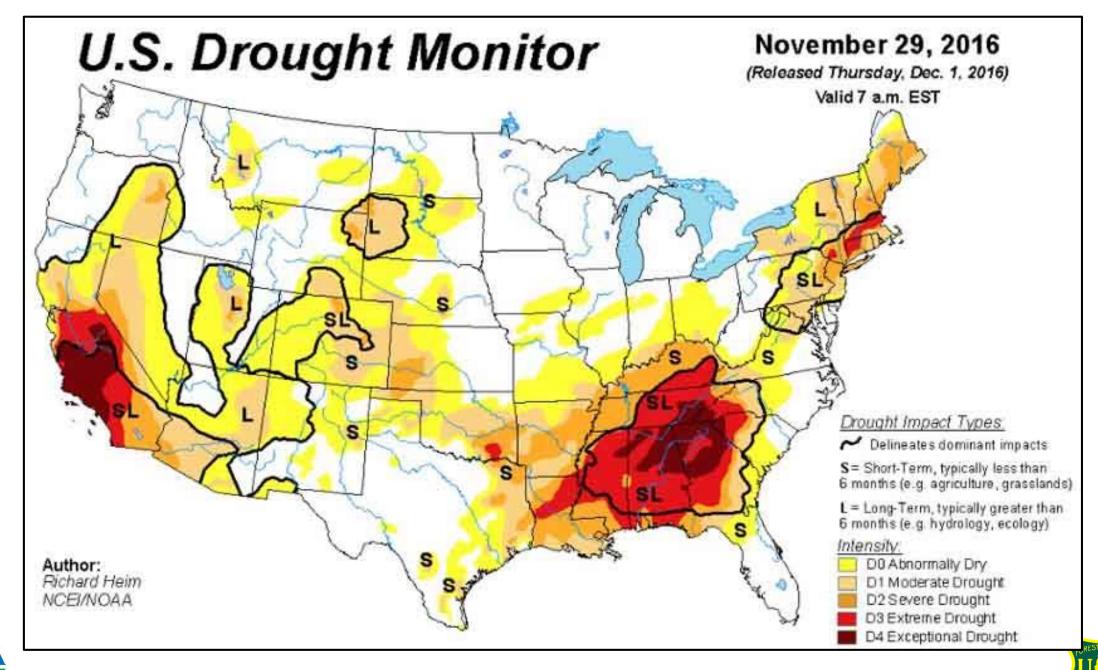


Great Smoky Mountains NP



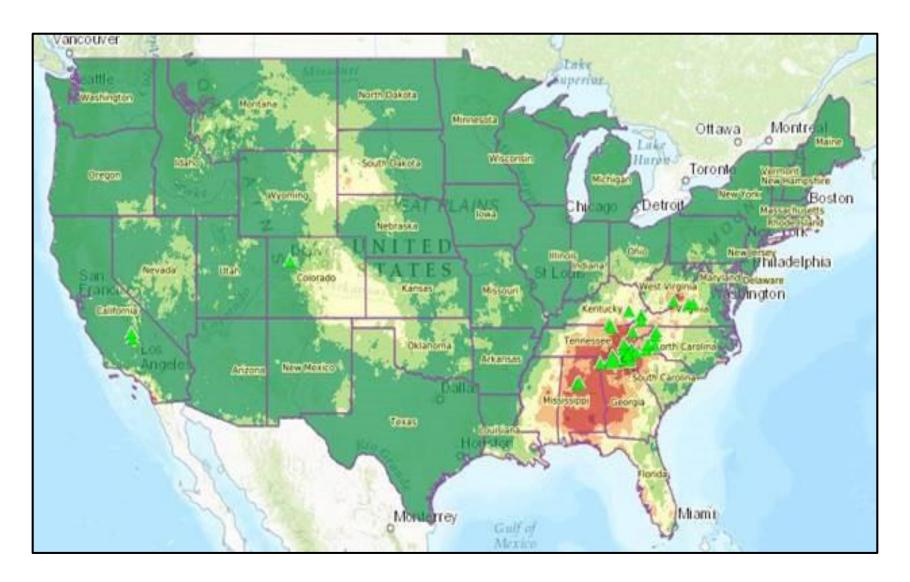
Chimney Tops 2 Fire, TN, 2016







National Fire Danger Rating System – Nov. 26, 2016







Gatlinburg, TN, 2016







- The Chimney Tops 2 fire, caused by arson, burned 18,000 acres.
- Overall, the effects of the fire were caused by extended, exceptional drought and strong, sustained winds.
- 14 fatalities, 1,700 structures damaged or destroyed, and 14,000 residents originally forced to evacuate.





Chimney Tops 2 Fire, TN, 2016





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- http://wildfiretoday.com/2016/12/05/analyzing-the-fire-that-burned-into-gatlinburg

Chimney Tops 2 Fire, TN, 2016







Chimney Tops 2 Fire, TN, 2016







- Nearly 7,000 Firefighters from 21 states responded to the fire situation in the SE.
- National Guard units were mobilized across the region to provide firefighting, logistics, aerial, and medical support
- The cost in GA alone, to date, has been over \$10m.









Chimney Tops 2 Fire, TN – Dec. 12 2016

