



United States Department of Agriculture **Forest Service**

Examples of Tree Canopy Cover Change from the NLCD TCC Layers

The USDA Forest Service (USFS) contributes to the National Land Cover Database (NLCD) by producing the percent tree canopy cover (TCC) data layers for the coterminous United States, coastal Alaska, Hawaii, and Puerto Rico/US Virgin Islands. The four TCC examples include three data layer, a 2016 TCC data layer, a 2016 TCC data layer, and a TCC change data layer. White areas in the 2011 and 2016 data layers represent little to no canopy cover and progressively darker green areas represent increasingly higher canopy cover. The TCC change data layer shows the difference between 2011 and 2016 TCC. Decreasing tree canopy cover is shown using shades of lighter to darker browns indicating a decreasing canopy cover with examples of harvest and fire. Increasing tree canopy cover is shown using shades of lighter to darker teal indicating an increasing canopy cover with examples being post-harvest and wind damage recovery. For more detailed information about all the TCC data products visit the USFS TCC website at https://data.fs.usda.gov/geodata/rastergateway/treecanopycover/.

Arkansas Tree Removal and Regrowth

Forestlands cover 56 percent (19 million acres) of the state of Arkansas. Sixty-nine percent of forestlands are privately held, another 12 percent are owned by the forest industry, and 19 percent are public lands (Arkansas Forestry Commission). Forests are major economic drivers in the State with over ten percent of the population working in wood and paper products industry (U.S. Department of Commerce).









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Percent Tree Canopy Cover

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Change in Tree Canopy Cover

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Minnesota Pagami Creek Wildfire

The 93,000-acre Pagami Creek Wildfire began with a lightning strike on August 18, 2011 approximately 13 miles east of Ely, Minnesota in the Boundary Water Canoe Area Wilderness. After weeks of slow growth, extreme weather conditions in mid-September led to a series of unprecedented crown fires and resulted in the third largest fire in recorded Minnesota history.









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About the USDA-FS TCC Project

The U.S. Forest Service (USFS) builds and maintains TCC datasets. Scientific support is provided by the USFS Research & Development - Forest Inventory and Analysis program and production is provided by USFS National Forest Systems. Funding for the "all lands" TCC project comes from multiple USFS Deputy Area's. These include: National Forest Systems, State and Private Forestry, and Research and Development. | Learn, Share, Recycle 🛟 | USDA is an equal opportunity provider and employer.

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Hawai'i Pu'u 'Ō'ō Lava Flow

The photo and data layers below show what is informally known as the 'June 27th flow' that began on that date in 2014 when new vents opened on the Pu'u 'O'o cone in the Hawai'i Volcanoes National Park. Lava continued to flow intermittently over the next two years until a new vent opened that effectively cut the supply of lava to the June 27th flow.







On June 7, 2007, a long-track tornado touched down in Wisconsin east of Mattoon in Shawano County and continued northeast to the Oconto-Marinette County line. The EF3 tornado, with estimated winds of 140 to 160 mph, was on the ground for at least 40 miles and was over ½-mile wide at times. Over 14,000 acres of trees were impacted by the tornado.









Wisconsin Long-Track Tornado