Extreme Weather Events in Fairfax County

Over the past 20 years, Fairfax County and the surrounding region have experienced several extreme weather events, such as tropical storms, hurricanes, derechos and nor'easters. Many of these events have individually cost the county, its residents and businesses millions of dollars in damages. Climate change is expected to increase the frequency, severity and costs of extreme weather. Already, the intensity of events, such as the July 9, 2019 rainfall, which resulted in \$14.8 million in damages to Fairfax County, have been attributed to a warming climate. Included below are highlights from the extreme weather events the county has experienced in the twenty-first century thus far; this list is not comprehensive. The financial impact is provided for those events where supporting data was readily available, as are a list of other impacts and whether the event resulted in an emergency declaration at the federal, state or local level.

Year	Event	Emergency Declaration	Impacts	County-wide Financial Impact
2019	July 8 rainfall and flooding event	Local emergency	Damage to county property, residences, and businessesRoads wiped out	\$14.8 million (includes \$2 million worth of damages to Fairfax County Government)
2019	Nor'easter ("bomb cyclone")		Widespread power outagesDamaged buildings and residencesSchool closures	
2018	August 1 rainfall and flooding event*		Swift water rescuesDowned treesDamaged roadways	
2018	March 2 windstorm	Virginia state of emergency	 Widespread power outages Downed trees Personal property and residential damages School closures 	
2016	Winter Storm Jonas		 School closures Increased emergency management response to vehicle crashes and other incidents 	
2012	Hurricane Sandy	Virginia state of emergency	 Multi-day power outages Flooded roads Downed trees damaged 50+ residences School closures 	\$1.5 million+ (includes costs to Fairfax County Government; community-wide costs unknown)

^{*}The August rainfall and flooding event was one of several heavy precipitation events in 2018, which was the wettest year on record for the Washington metropolitan area.

Year	Event	Emergency Declaration	Impacts	County-wide Financial Impact
2012	Derecho	Virginia state of emergency	 Loss of life Multi-day power outages Downed trees damaged 100+ residences Drinking water advisories 	
2011	Tropical Storm Lee	Virginia state of emergency	 Loss of life Downed trees Flooding damage to schools, residences, personal property Roads and bridges wiped out 	\$10 million to bridges and roads (costs to greater community, Fairfax County Government unknown)
2011	Hurricane Irene	Virginia state of emergency	Downed treesResidential damage	
2010	February 5-6 North American Blizzard ("Snowmaggedon")		Record snowfallsDowned treesSupply shortagesSchool closures	\$2 million
2008	Tropical Storm Hanna		Power outagesResidential evacuationsFlooded roads and properties	
2003	Hurricane Isabel	Federal disaster area	 Flooding damaged and/or wiped out 2000+ residential units Widespread tree damage Multi-day power outages Drinking water shortages 	\$18 million