



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### DISTRICT OF COLUMBIA

<b>District Of Columbia N Portion</b>	<b>18</b>	<b>0030EST 0200EST</b>			<b>0</b>	<b>0</b>			<b>Flash Flood</b>
Intense thunderstorms moved through the northeast half of Washington, causing a few road closures when low-lying areas flooded. Most notably, flooding was reported on 16th street N.W. at 0030EST, and a bit later on South Capitol St.									
<b>District Of Columbia Northwest</b>	<b>19</b>	<b>1738EST</b>			<b>0</b>	<b>1</b>			<b>Lightning</b>
A 22 year-old man was reported in critical condition after being struck by lightning during the early evening of the 19th.									
<b>District Of Columbia Northwest Portion</b>	<b>20</b>	<b>2155EST 2200EST</b>			<b>0</b>	<b>0</b>	<b>50K</b>		<b>Thunderstorm Wind</b>
<b>District Of Columbia Northwest</b>	<b>20</b>	<b>2200EST 2300EST</b>			<b>0</b>	<b>0</b>	<b>30K</b>		<b>Flash Flood</b>
A rapidly developing thunderstorm knocked down numerous trees and large limbs in upper Northwest. Some of the trees fell onto automobiles. The associated torrential rains flooded Rock Creek and other low-lying areas in Northwest. Portions of the adjacent parkway were closed for up to 24 hours following the storm, snarling the next morning's and evening's rush. Potomac Electric Power Co. reported 4500 residents in the District and adjacent Maryland suburbs without power.									
<b>District Of Columbia Northwest</b>	<b>20</b>	<b>2200EST</b>			<b>0</b>	<b>0</b>	<b>25K</b>		<b>Lightning</b>
Lightning reportedly struck several homes in Northwest, sparking small fires.									
<b>District Of Columbia Citywide</b>	<b>24</b>	<b>1612EST 1622EST</b>			<b>0</b>	<b>0</b>	<b>150K</b>		<b>Thunderstorm Wind (G51)</b>
An accelerating heavy-precipitation supercell caused damage over both Southeast and upper Northwest Washington. Trees and wires were down in the Anacostia section, as well as a few downtown, in association with the core of the mesocyclone. Several trees and wires were knocked down in upper Northwest, a continuation of the downburst which earlier affected the Potomac-Bethesda area of Montgomery Co Maryland. Across the entire metropolitan region, this storm was the hardest hitting since June 14th, 1989. At least 270,000 Virginia Power and Potomac Electric Power Co customers were without power immediately after the storm. Some residents didn't receive power until 3 days after the storm.									
One person perished indirectly from the storm. A 38 year old female utility worker, attempting to restore power in Northwest, was electrocuted by a live wire and died moments later.									

### MARYLAND, Central

<b>Washington County Smithsburg</b>	<b>04</b>	<b>1425EST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
One-inch diameter hail was reported in Smithsburg.									
<b>Washington County 1 E Hancock</b>	<b>04</b>	<b>1545EST</b>			<b>0</b>	<b>0</b>			<b>Hail (1.00)</b>
Another pulse-severe thunderstorm dropped one-inch diameter hail near Hancock.									
<b>Harford County East Portion</b>	<b>04</b>	<b>1805EST</b>			<b>0</b>	<b>0</b>	<b>3K</b>		<b>Hail (0.88)</b>
Estimated penny- to nickel-sized hail fell in Bel Air, Churchville, Abingdon, and Port Deposit. A few vehicles in Port Deposit sustained minor damage from hail dents.									
<b>Montgomery County Dickerson</b>	<b>04</b>	<b>1835EST</b>			<b>0</b>	<b>0</b>	<b>25K</b>		<b>Thunderstorm Wind</b>
Thunderstorm winds blew 3/8 inch hail stones into the siding of a residence in Dickerson, peeling much of it off. Damage from the wind-blown hail was estimated at \$9,000. A barn nearby had a sheet metal roof blown off, and damage was sustained to it's doors.									
<b>Montgomery County Damascus</b>	<b>04</b>	<b>1855EST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
Thunderstorm winds knocked down several trees and large limbs along Clarksburg Road.									
<b>Frederick County 10 SW Mt Airy</b>	<b>04</b>	<b>1900EST</b>			<b>0</b>	<b>0</b>	<b>50K</b>		<b>Thunderstorm Wind</b>



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### MARYLAND, Central

#### Carroll County

Mt Airy	04	1905EST			0	0	5K		Thunderstorm Wind
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#### Frederick County

4 W Mt Airy to 3 W Mt Airy	04	1905EST 1907EST	1	65	0	0	150K		Tornado (F1)
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A severe thunderstorm produced wind damage along a 10-mile swath from eastern Frederick Co into extreme southern Carroll Co. Downburst wind damage, in the form of 100 snapped or blown down trees, was noted along Green Valley Road (state route 75) near Green Hills. An eyewitness in the area observed hail between 1 and 1 1/2 inches in diameter. As the storm moved northeast towards Mt Airy, scattered tree damage and damage to trim on homes was also noted. One home had it's carport blown off, and 3 others sustained fence damage.

Approximately 4 miles southwest of Mt Airy a gustnado touched down in the Molesworth Hills subdivision, causing extensive damage to trees, moderate damage to five homes, and minor damage to about 10 other residences. One home had a garage wall blown out. A new home had a garage door blown inward, siding and roofing torn away, and a picture window blown in. Two sheds were also damaged. Three homes sustained roof damage from fallen trees, which also damaged two automobiles. The tornado also totalled a late-model pickup truck, and blew out the windshield of a van.

An eyewitness noted the gustnado, "between 100 and 200 feet in width," heading towards him. He took cover in a nearby ditch and escaped unharmed.

In Mt. Airy (Carroll Co), straight-line winds blew down three large maple trees (1-2 feet in diameter), parts of which landed up to 20 feet away. A few more trees were felled near the library.

#### Carroll County

Manchester	04	1925EST			0	1			Lightning
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Lightning struck and injured a woman in Manchester.

#### Montgomery County

Comus to Dickerson	10	1930EST 2100EST			0	0	40K		Flash Flood
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#### Frederick County

Brunswick to Point Of Rocks	10	1930EST 2100EST			0	0	30K		Flash Flood
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Training thunderstorms, containing torrential rains, dumped an estimated 3 to 4 inches in a thin swath over extreme southern Frederick Co and northwestern Montgomery Co. In Dickerson, 2 feet of water was noted at the intersection of Dickerson Road (state route 28) and Nicholson Farm Road. A portion of Dickerson Road shifted due to the severe erosion. In addition, a resident reported 4 inches of flowing water "on the level" of his property. In Comus, a creek flooded a bridge of state route 109, with 2 1/2 feet of water otop. Minor flooding was also reported at the Comus Inn restaurant; several residences' basements were flooded in the Comus/Barnesville area.

#### Montgomery County

Comus	10	2000EST			0	0	2K		Lightning
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Lightning struck and killed two cows at a farm in Comus.

#### Allegany County

W Portion	11	1600EST 1700EST			0	0	50K		Flash Flood
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A continued feed of tropical moisture, combined with a stationary upper-level trough, produced scattered torrential-rain producing thunderstorms across the Potomac Highlands. One of these storms ravaged western Allegany Co, flooding roads in and near Frostburg and Cumberland. Substantial damage was reported in Mt. Savage, where mud slides closed roads and runoff from higher terrain flooded several homes.

#### Allegany County

Frostburg	11	1605EST			0	0			Hail (0.75)
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Penny-sized hail fell in western Allegany Co.

#### Montgomery County

Central Portion	11	1620EST 1645EST			0	0	2K		Flash Flood
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A concentrated area of thunderstorms dumped copious rainfall on southern and central Montgomery Co, producing scattered flash flooding. High standing water was noted at the intersection of state route 355 and Montrose Road in Rockville. In Norbeck (6 E Rockville), the Northwest Branch came out of it's banks, causing minor flooding and temporary road closures of state route 28 and Layhill Road.



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June 1996

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### MARYLAND, Central

#### Harford County

<b>Upper Crossroads</b>	<b>11</b>	<b>1630EST 1715EST</b>			<b>0</b>	<b>0</b>	<b>2K</b>		<b>Flash Flood</b>
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Street flooding was reported at the intersection of state routes 165 and 152 in Upper Crossroads. A small mud slide was also reported along route 165, and another along Morse Road in Jarrettsville.

#### Montgomery County

<b>Derwood</b>	<b>14</b>	<b>1935EST 1940EST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Thunderstorm Wind</b>
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A small microburst knocked down several small to medium sized trees and limbs in a Derwood subdivision.

#### Frederick County

<b>S Portion</b>	<b>17</b>	<b>2030EST 2200EST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Flash Flood</b>
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Intense thunderstorms dumped an estimated 2 1/2 inches of rain in about two hours onto rather saturated soil in southern Frederick Co, flooding some areas. In the city of Frederick, portions of the town center were flooded. Farther south, along state route 28 near the Monocacy River, minor flooding was reported.

#### Baltimore County

<b>S Portion</b>	<b>17</b>	<b>2100EST 2300EST</b>			<b>0</b>	<b>0</b>	<b>50K</b>		<b>Flash Flood</b>
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Intense thunderstorms dumped torrential rainfall over the northern and eastern suburbs of Baltimore City. Storm totals were estimated between 3.5 and 4 inches in less than 2 hours in the hardest hit areas. In Randallstown, the parking lot of a strip mall was under water. Numerous basements and underpasses were flooded from Pikesville to Essex. The combination of high water, gusty winds, and copious lightning knocked out power to at least 6000 county residents. A freight train derailed in Reisterstown when the track was partially washed out.

#### Baltimore City (C)

<b>Ne Portion</b>	<b>17</b>	<b>2100EST 2300EST</b>			<b>0</b>	<b>0</b>	<b>100K</b>		<b>Flash Flood</b>
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Intense thunderstorms, dumping between 3 1/2 and 4 inches of rain within 2 hours, produced widespread flash flooding in the eastern portion of Baltimore City. At last 20 persons were rescued from stranded automobiles. Many of the trapped motorists were on Loch Raven Blvd. and along federal highway 40. No injuries or deaths were reported. Hundreds of low-lying intersections and underpasses were flooded, including one on the Jones Falls Expressway. Numerous basements and ground floors were flooded by a combination of the heavy rainfall and clogged storm drains. The combination of high water, gusty winds, and prodigious lightning knocked out power to nearly 14 thousand city residents.

#### Montgomery County

<b>Extreme Nw Portion</b>	<b>17 18</b>	<b>2300EST 0200EST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Flash Flood</b>
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Thunderstorms, containing torrential rains, produced flash flooding and a few road closures in extreme northwest Montgomery Co. For the second time in 8 days, state route 109 was closed between Barnesville and Comus when a creek overflowed it's banks.

#### Montgomery County

<b>Central Portion</b>	<b>18</b>	<b>0000EST 0300EST</b>			<b>0</b>	<b>0</b>	<b>30K</b>		<b>Flash Flood</b>
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Intense "training" thunderstorms dumped rainfall of 3 to 4 inches within 3 hours in the Darnestown-Germantown-N. Gaithersburg area, causing Seneca Creek to overflow it's banks. The flooding closed numerous thoroughfares, including state route 28 just north of Darnestown and Riffle Ford Road. An automobile was trapped in the flood waters along route 28 around 0230EST, and one occupant had to be rescued. These and other roadways remained closed into the morning rush on the 18th. On state route 109 west of Interstate 270, a 50 x 24 section of pavement was eroded by a swollen brach of Little Bennett Creek.

#### Washington County

<b>E Portion</b>	<b>18 19</b>	<b>2330EST 0830EST</b>			<b>0</b>	<b>0</b>	<b>1M</b>		<b>Flash Flood</b>
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#### Frederick County

<b>N Portion</b>	<b>19</b>	<b>0000EST 0900EST</b>			<b>1</b>	<b>0</b>	<b>5M</b>		<b>Flash Flood</b>
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#### Carroll County

<b>W Portion</b>	<b>19</b>	<b>0030EST 0930EST</b>			<b>0</b>	<b>0</b>	<b>1M</b>		<b>Flash Flood</b>
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Torrential convective rainfall moved across the northern tier of central Maryland during the early morning hours on the 19th, producing widespread and in some cases catastrophic flooding across the area. Rainfall of over 5.5 inches fell in Emmitsburg, with up to 13 inches in nearby Gettysburg, Pennsylvania, during the late night hours. The worst damage was in Emmitsburg, where numerous residences, businesses, and farms were flooded. Nearly all roads leading into town, including the main



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### MARYLAND, Central

thoroughfare (state route 140), were flooded and/or damaged. Fifty evacuations occurred in Frederick Co, and 21 in Washington Co. Several persons were rescued, including three volunteer fire fighters and four local women (Frederick Co). An 18-foot mobile camper was destroyed near Emmitsburg after it was swept away by flood waters.

There was one fatality approximately 3 miles southwest of Emmitsburg. At 0000EST, a woman exited her van along Little Owens Creek and was promptly swept away by the floodwaters, which at the time were 3 feet over top of Eylers Valley Road. The woman was found at noon the following day, approximately 1/4 mile downstream.

In Washington Co, an overflowed creek near downtown Hagerstown punched a large hole into a cinder block wall at the municipal stadium, causing an estimated \$100,000 in damage and cancelling an eight-game baseball home stand. A home in Hagerstown was swept off it's foundation. Numerous roads were submerged overnight through the following morning. In Carroll Co, many roads were also flooded, including state route 140 at the Monocacy River bridge. Damage along route 140 closed the highway for more than one week. The Monocacy, which traverses Carroll and Frederick Cos, has a rapid flood response; in this event, flood stage was quickly surpassed on the 19th. In fact, the crest of 25.5 feet was a flood of record.

#### Montgomery County

##### Nw Portion

19	0500EST 0900EST								
		0	0	30K					Flash Flood

#### Howard County

##### Nw Portion

19	0600EST 0900EST								
		0	0	20K					Flash Flood

Areas which received flash flooding on the 18th were inundated with additional heavy rainfall during the morning of the 19th, causing a repeat performance. Once again, several creeks and streams overflowed their banks, including Seneca Creek. Closed state highways included route 28 near Dawsonville, route 109 near Barnesville, and route 121. High standing water snarled traffic along interstate 270 in a construction zone between routes 118 and 121. Other flooding was noted along Bennett Creek near the northern tip of Montgomery Co. High standing water temporarily closed Wightman/Brink Road near the state route 27/355 interchange in Germantown.

In Howard Co, some creeks overflowed their banks near the Montgomery/Frederick line, flooding area roads.

#### Howard County

##### Ne Portion

19	1115EST 1500EST								
		0	0	10K					Flash Flood

#### Baltimore County

##### S Portion

19	1115EST 1500EST								
		2	0	25K					Flash Flood

M29IW, F29IW

#### Baltimore City (C)

##### Citywide

19	1200EST 1500EST								
		0	0	100K					Flash Flood

#### Anne Arundel County

##### N Portion

19	1300EST 1600EST								
		0	0	25K					Flash Flood

More storms continued to develop during the mid and late morning hours in east-central Maryland. Heavy rains from these storms, combined with runoff from earlier events upstream, pushed the Patapsco River out of it's banks along the Howard/Baltimore Co line shortly after noon. For the second time in three days, portions of Baltimore City were flooded, including up to 15 businesses in the Canton district, a low-lying area in the eastern portion of town. Much of the flooding was exacerbated by a poorly filtered storm drainage system. Dozens of people were evacuated. Jones Falls rose 12 feet, but no damage was reported to the Mt. Washington bridge.

The most notable problems were along the Patapsco River, where 2 fatalities occurred. The deceased, a young man and woman, were rafting on the river (despite the fact that the area was under a flash flood watch and warning) at approximately 1545EST when the fast current washed them over an earthen dam which catapulted them out of the raft. Other evacuations/rescues were necessary in the Gwynns Falls area along the river between 1200 and 1300EST. Six occupants in a van became trapped in flood waters near the Baltimore Beltway (interstate 695), requiring another rescue.

Other roads closed in southern Baltimore Co included the intersection of River and Frederick Road (state route 144), and Cromwell Bridge Road and Manor Road. In Anne Arundel Co, Defense Highway (near Annapolis) was closed due to high standing water. Numerous basements were flooded, as were low-lying neighborhoods especially in Arnold near the Magothy River. Five other county roads were closed as well.

#### Baltimore City (C)

##### Downtown

19	1630EST								
		1	0						Lightning



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### MARYLAND, Central

Lightning struck and killed a construction worker on a roof in downtown Baltimore. The worker died from cardiac arrest. M28OU

#### **Baltimore County**

<b>S Portion</b>	19 20	2245EST 0100EST					25K		<b>Flash Flood</b>
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#### **Baltimore City (C)**

<b>Citywide</b>	19 20	2245EST 0100EST					25K		<b>Flash Flood</b>
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#### **Carroll County**

<b>S Portion</b>	19 20	2245EST 0100EST					40K		<b>Flash Flood</b>
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#### **Howard County**

<b>Nw Portion</b>	19 20	2245EST 0100EST					30K		<b>Flash Flood</b>
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#### **Frederick County**

<b>Countywide</b>	19 20	2300EST 0100EST					75K		<b>Flash Flood</b>
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#### **Montgomery County**

<b>N Portion</b>	19 20	2300EST 0100EST					40K		<b>Flash Flood</b>
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Yet another round of tropical convection developed over flood-weary north central Maryland during the late evening of the 19th. Additional rainfall totals generally between 1 and 2 inches renewed flash flooding, closing hundreds of roads once again, including several main thoroughfares, from Baltimore City to Frederick Co. No additional evacuations were necessary.

Dozens of homes in Frederick Co had flooded basements once again, but flood waters were slowly receding on county farms. Numerous roads were closed once again.

#### **St. Mary'S County**

<b>Lexington Park</b>	20	1130EST 1230EST					5K		<b>Flash Flood</b>
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High standing water was reported on several roadways in the area. Over three inches of rain fell in less than 2 hours just over the line in neighboring Calvert Co.

#### **Prince George'S County**

<b>Bowie</b>	20	1220EST 1250EST					10K		<b>Flash Flood</b>
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High standing water was reported along state route 450, especially at the main intersections of Martha's Choice Circle, Bell Station Road, and state route 193. A foot of water flooded the highway near the Free State and Market Place shopping centers. Low-lying neighborhood streets reportedly had water, wood, and gravel running along them during the height of the storm.

#### **Calvert County**

<b>Prince Frederick</b>	20	1250EST 1330EST							<b>Flash Flood</b>
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High standing water flooded the intersection of Sandy Point and Norwood Road in Prince Frederick. A postal van became trapped, and a local resident had to rescue the driver.

#### **Washington County**

<b>4 W Hagerstown</b>	20	1815EST 1845EST							<b>Flash Flood</b>
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Federal highway 40 was closed due to high water from earlier torrential rains.

#### **Montgomery County**

<b>Glen Echo</b>	20	2150EST					5K		<b>Thunderstorm Wind</b>
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A rapidly developing thunderstorm knocked down several trees and large limbs in Glen Echo.

#### **Montgomery County**

<b>Glen Echo</b>	20	2200EST 2245EST					15K		<b>Flash Flood</b>
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Associated torrential rains with a rapidly developing thunderstorm flooded the intersection of Goldsboro Road and Massachusetts Ave, washing out a portion of the intersection.

#### **Allegany County**

<b>Countywide</b>	24	1145EST 1200EST					20K		<b>Thunderstorm Wind</b>
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Thunderstorm winds blew down trees and limbs across the county.



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### MARYLAND, Central

#### Carroll County

<b>Taneytown</b>	24	1315EST			0	0	5K		<b>Thunderstorm Wind</b>
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A localized severe thunderstorm blew down scattered trees and large limbs in and north of Taneytown.

#### Montgomery County

<b>Potomac to Bethesda</b>	24	1555EST 1610EST			0	0	350K		<b>Thunderstorm Wind</b>
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Along the northeastern portion of a heavy precipitation supercell which as simultaneously producing a tornado in Fairfax Co Virginia, downburst winds knocked down hundreds of trees, limbs, and power lines from Potomac through Bethesda. Dozens of tree-lined streets in Bethesda were closed for removal of downed large limbs and snapped trees, some which fell onto homes and vehicles. An automobile dealership in Bethesda had a portion of it's roof ripped off.

#### Washington County

<b>Hancock to Clear Spg</b>	24	1605EST 1615EST			0	0	20K		<b>Thunderstorm Wind</b>
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A second line of strong to severe thunderstorms formed along a surface trough. In western Washington Co, thunderstorm winds blew down trees from Hancock to Clear Spring.

#### Montgomery County

<b>Bethesda to Silver Spg</b>	24	1610EST 1625EST			0	0	150K		<b>Thunderstorm Wind</b>
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The downburst which ripped Bethesda moments earlier continued through the southeastern quarter of the county. The damage lessened as the storm moved through Kensington and near the Silver Spring business district. County officials estimated a total of \$250 thousand damage to trees and power lines alone during the event from Potomac to Silver Spring.

#### Prince George'S County

<b>Oxon Hill to Andrews Afb</b>	24	1620EST 1625EST			0	0	1.3M		<b>Thunderstorm Wind (G66)</b>
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A rapidly moving bow-echo produced widespread tree, power line, and minor structural damage from Oxon Hill through Andrews AFB. A wind gust of 79 mph struck the base at 1622EST. Several trees fell onto homes and vehicles; at least one home was split in half by fallen large oaks. Other homes had roof damage from fallen trees, and a few cyclone fences were damaged or destroyed. The winds also caused minor structural damage, mainly to shingles, gutters, and siding.

#### Prince George'S County

<b>2 E Andrews Afb to 3 E Andrews Afb</b>	24	1623EST 1624EST	1	50	0	0	200K		<b>Tornado (F0)</b>
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The same bow-echo that struck Oxon Hill moments earlier spawned a gustnado in a residential area just east of Andrews AFB. Damage included 30 uprooted or snapped trees, including two onto homes and two others onto automobiles.

#### Prince George'S County

<b>Bowie</b>	24	1631EST 1636EST			0	0	40K		<b>Thunderstorm Wind</b>
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Downburst damage also occurred in Bowie, where several trees and power lines were knocked down, with at least one onto a vehicle and one onto a home. Passengers in the vehicle were taken to the hospital for evaluation, but no injuries were reported. Lightning also struck several trees in the area.

#### Prince George'S County

<b>1 NW Upper Marlboro to 2 SE Upper Marlboro</b>	24	1634EST 1639EST	4	200	0	0	500K		<b>Tornado (F1)</b>
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#### Anne Arundel County

<b>2 SE Upper Marlboro to Waysons Corner</b>	24	1639EST 1640EST	1	100	0	0	100K		<b>Tornado (F1)</b>
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Another tornado touched down in the Fox Chase subdivision, one mile northwest of Upper Marlboro, and tracked east-southeast across federal highway 301 before exiting the county near state route 4. The tornado continued into Waysons Corner in extreme southwestern Anne Arundel Co. Along its track, dozens of trees were uprooted. Damage in the residential areas included ripped siding and blown down chimneys. The storm tore the roof from the Triangle Tobacco Whse. in Waysons Corner, forcing condemnation of the building. A large tree fell onto a mobile home there as well.

#### Washington County

<b>Hagerstown</b>	24	1637EST 1650EST			0	0	120K		<b>Thunderstorm Wind</b>
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Thunderstorm winds associated with a second line of thunderstorms knocked down numerous trees and wires throughout Hagerstown. Several trees fell onto automobiles, residences, and yards. Two empty truck cargo trailers were flipped over downtown.

#### Calvert County

<b>North Portion</b>	24	1642EST 1647EST			0	0	20K		<b>Thunderstorm Wind</b>
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The severe thunderstorm which produced a swath of damage over southern Anne Arundel Co and eastern Prince Georges Co



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed    Injured		Estimated Damage Property    Crops		Character of Storm
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### MARYLAND, Central

knocked down several trees and power lines in northern Calvert Co.

**Anne Arundel County**  
**Arnold**

24	1650EST								
		0	0	40K	<b>Lightning</b>				

Lightning struck a residence in Arnold, igniting a two-alarm blaze which produced substantial damage to the tune of \$40 thousand.

**Anne Arundel County**  
**Glen Burnie**

24	1650EST 1655EST								
		0	0	20K	<b>Lightning</b>				

Several lightning strikes ignited fires in the Glen Burnie area. One small fire caused \$15 thousand in damage to a home whose roof was burned.

**Anne Arundel County**  
**Edgewater**

24	1652EST								
		0	0	15K	<b>Thunderstorm Wind</b>				

The northern edge of the bow-echo produced peripheral damage in the northern half of Anne Arundel Co. In the Glen Burnie/Edgewater area, a 100-foot tall snapped tree fell into a home, destroying the kitchen. Baltimore Gas and Electric reported 38,000 customers without power immediately after the storm.

**Charles County**  
**2 W La Plata**

24	1700EST 1715EST								
		0	0	50K	<b>Thunderstorm Wind</b>				

Continuation of a severe thunderstorm through Charles Co knocked down numerous trees and power lines in the La Plata area.

**Charles County**  
**S Portion**

24	1715EST 1730EST								
		0	0	20K	<b>Lightning</b>				

Lightning struck 5 homes near the Cobb Island/Governor Nice Bridge area.

**Carroll County**  
**North Portion**

24	1715EST 1730EST								
		0	0	5K	<b>Thunderstorm Wind</b>				

The same line of thunderstorms which had caused damage in Washington Co less than an hour earlier knocked down several trees in northern Carroll Co near the Pennsylvania line.

**St. Mary'S County**  
**Hollywood to  
Patuxent River Nas**

24	1800EST 1815EST								
		0	0	85K	<b>Thunderstorm Wind (G70)</b>				

Three buildings sustained considerable damage as a severe thunderstorm raced towards the central Chesapeake Bay.

**Calvert County**  
**S Portion**

24	1800EST 1830EST								
		0	0	10K	<b>Lightning</b>				

Two homes reported minimal damage to internal electrical systems after lightning strikes in the extreme southern portion of the county.

**St. Mary'S County**  
**Oraville**

24	1815EST 1830EST								
		0	0	20K	<b>Lightning</b>				

Lightning struck a barn and a home in Oraville.

**Calvert County**  
**Drum Point**

24	1815EST								
		0	0	25K	<b>Thunderstorm Wind</b>				

Straight-line winds from a severe thunderstorm knocked down numerous trees and power lines near Drum Point.

### VIRGINIA, North

**Rappahannock County**  
**Washington**

04	1450EST								
		0	0	<b>Hail (0.88)</b>					

**Clarke County**  
**Countywide**

04	1615EST 1625EST								
		0	0	15K	<b>Hail (1.00)</b>				

Several areas received three-quarter to one inch diameter hail across the county.

**Prince William County**  
**Independent Hill**

04	1617EST								
		0	0	<b>Hail (1.00)</b>					

Three-quarter to one inch diameter hail fell in the town of Independent Hill.









# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1996

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### VIRGINIA, North

#### Prince William County

Manassas City	14	2120EST 2125EST			0	0	50K		<b>Thunderstorm Wind</b>
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Thunderstorm winds estimated at around 80 mph knocked down 18 trees, large limbs, and power lines in and around Manassas City. Downed trees were up to 1 foot in diameter. One tree crushed a fence, and two picnic tables were crushed. One fallen tree pushed a natural gas line into a house, and minor damage to other buildings was reported. In addition, traffic lights were blown off their lines, and trees fell onto power lines causing one-third of the city to lose electricity.

#### Prince William County

2 E Aden	14	2140EST 2145EST			0	0	40K		<b>Thunderstorm Wind</b>
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The same microburst which struck Manassas City moments earlier destroyed between 50 and 75 trees in a relatively large area of southern Prince William Co near Aden. The trees were a mixture of hard and soft wood deciduous and evergreen. No other property was reported damaged.

#### Shenandoah County

3 N Woodstock	16	1930EST 2030EST			0	0	150K		<b>Flash Flood</b>
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An intense thunderstorm dumped 3.44 inches of rain at Fetzer's Gap along North Mountain. The runoff caused Pugh's Run to overflow it's banks, as it rose 2 feet in less than an hour. The flash flood washed away sheds and claimed 3 automobiles. Eight individuals had to be rescued from homes along the creek. A restaurant in Woodstock had minor flooding when a small stream spilled over its banks, and a farmer had a fence washed away by high waters. The level of water in one basement rose to 4 feet. A large section of asphalt washed away from local route 642 underneath interstate 81. Several low-water bridges were damaged by flood waters; total cost of highway damage alone was \$90,000.

#### Rockingham County

Harrisonburg	17	1945EST			0	0	8K		<b>Lightning</b>
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A strong thunderstorm produced a lightning strike which damaged an air conditioning unit at a chain restaurant on Carlton St. Elsewhere in town, a well pump and relay system were destroyed by lightning.

#### Rockingham County

E Portion	18	1400EST 1515EST			0	0			<b>Flash Flood</b>
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A slow-moving thunderstorm, dumping rain at the rate of 1 inch per hour, flooded several roads in eastern Rockingham Co.

#### Shenandoah County

New Market	18	1515EST 1615EST			0	0			<b>Flash Flood</b>
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A small but intense thunderstorm dumped nearly 2 inches of rain in two hours along Smith Creek. In nearby New Market, the heavy rains flooded some roads, with one in particular having standing water 1.5 feet deep.

#### Orange County

6 SE Somerset	18	1545EST 1700EST			0	0	10K		<b>Flash Flood</b>
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A nearly stationary thunderstorm dumped between 2.5 and 3.5 inches of rain in a 2-hour period onto extreme western Orange Co, producing localized flash flooding. At the Sleepy Hollow Inn, an overflowing creek flooded a bridge. A nearby farm field had 2 inches of water nearly covering the grass. Several trees were knocked down by the raging flood waters along Blue Run.

#### Spotsylvania County

2 SE Spotsylvania	18	1730EST 1800EST			0	0	10K		<b>Flash Flood</b>
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Merging thunderstorms in Spotsylvania Co produced residential and small stream flooding in the central portion of the county. In the Spots Lee subdivision, water was reported at least 2 feet high. Some small streams were out of their banks a bit farther west.

#### Rockingham County

W Portion	19	1430EST 1800EST			0	0	15K		<b>Flash Flood</b>
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#### Augusta County

Countywide	19	1630EST 1800EST			0	0	10K		<b>Flash Flood</b>
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#### Albemarle County

Sw Portion	19	1800EST 2100EST			0	0	10K		<b>Flash Flood</b>
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#### Orange County

W Portion	19	1800EST 2100EST			0	0	5K		<b>Flash Flood</b>
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# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1996

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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### VIRGINIA, North

#### **Fauquier County N Portion**

24	1500EST 1530EST				0	0	25K		<b>Lightning</b>
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Lightning struck 20 homes, several trees, and a few utility poles in the north portion of the county, including the city of Warrenton.

#### **Loudoun County 3 W Middleburg to 2 W Middleburg**

24	1510EST 1511EST	1	100		0	0	5K		<b>Tornado (F0)</b>
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A small tornado uprooted a few small trees along federal highway 50 on the Loudoun/Fauquier Co line between Upperville and Middleburg. No other damage was reported.

#### **Rappahannock County Northeast Portion**

24	1511EST 1525EST				0	0	5K		<b>Thunderstorm Wind</b>
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Scattered trees were knocked down in northeast Rappahannock Co.

#### **Loudoun County W Portion**

24	1515EST 1530EST				0	0	50K		<b>Lightning</b>
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Lightning struck between 7 and 10 homes outside of Hamilton. Lightning also struck a barn, setting it ablaze.

#### **Loudoun County Extreme Se Portion**

24	1540EST 1541EST	1	100		0	0	15K		<b>Tornado (F0)</b>
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#### **Fairfax County 5 W Centreville to 1.5 W Annandale**

24	1541EST 1557EST	19	200		0	1	4M		<b>Tornado (F2)</b>
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A tornado, associated with the mesocyclone of a heavy-precipitation supercell, touched down in extreme southeastern Loudoun Co near the Bull Run, then proceeded east-southeast for 20 miles, knocking down over 1000 trees and causing substantial property damage, especially in western Fairfax County, before lifting along the Capital Beltway at the Braddock Road interchange less than 2 miles west of Annandale.

While moving over rural terrain in extreme southeastern Loudoun and extreme western Fairfax Cos, the tornado uprooted or snapped tens of trees. The storm rapidly intensified over western Fairfax Co, where it produced F2 damage. The storm uprooted or snapped hundreds of trees along Pleasant Valley Road (local route 621) before moving into the Sully Station area of Centreville, where it produced estimated winds of over 130 mph. The most impressive damage occurred along Tree Line Drive, where 11 of 17 homes incurred moderate to major damage. Eight homes were condemned due to major damage or total destruction, including one which lost its entire roof and back wall. Dozens more homes sustained moderate damage, including shingle, siding, chimney, roof, and window damage.

After passing through Sully Station, the twister weakened somewhat, producing F1-rated damage until just south of Fairfax City (near Burke), then weakened to F0 intensity before it was overwhelmed by straight-line winds near the Capital Beltway.

The storm accelerated on an east-southeast track roughly paralleling Braddock Road. Additional damage was incurred to residences and trees from subdivisions west of Fairfax City to just north of Burke (south of Fairfax City), continuing to the Annandale area. The combined efforts of several agencies produced property damage estimates along the track (not including flora) to be \$2.99 million. Included in that total are 323 homes which sustained minor damage. An estimated 80 thousand homes lost power along the track of the tornado in Fairfax Co, with some homes not receiving juice until several days after the event.

#### **Loudoun County 2 SW Leesburg**

24	1540EST 1610EST				0	0	8K		<b>Flash Flood</b>
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Downpours on previously saturated soil produced flash flooding in the Leesburg area, where two and one-half inches of rain fell in 45 minutes. One motorist was trapped in his automobile just off federal highway 15 along local route 704; a rescue ensued. The Town Branch in Leesburg overflowed its banks, flooding a parking lot and washing away a portable swimming pool. Several basements were also flooded.

#### **Fairfax County Southwest Portion**

24	1541EST 1555EST				0	0	1M		<b>Thunderstorm Wind</b>
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Hundreds of trees and power lines were knocked down, and numerous structures incurred minor damage, as downburst winds associated with a heavy precipitation supercell (and embedded tornado) raced through. The damaging winds were associated with the rear-flank downdraft portion of the storm.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1996

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### VIRGINIA, North

#### Prince William County

Manassas City	24	1545EST 1600EST			0	0	50K		Thunderstorm Wind
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A microburst associated with the rear flank downdraft of the same heavy precipitation supercell which was simultaneously producing a tornado in central Fairfax Co knocked down tens of trees, limbs, and power lines in northern Prince William Co. One thousand customers were without power.

#### Fairfax County

Great Falls	24	1545EST 1555EST			0	0	10K		Thunderstorm Wind
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Several trees were uprooted and snapped, and power lines were knocked down along Walker Road and Beach Mill Road in Great Falls.

#### Fairfax County

Fairfax City	24	1548EST			0	0	2K		Hail (1.75)
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Hail the size of golfballs fell along the track of a heavy-precipitation supercell, mainly in and near Fairfax City.

#### Fairfax County

1.5 W Annandale to Alexandria	24	1555EST 1610EST			0	0	500K		Thunderstorm Wind
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The tornado which had moved through western and central Fairfax Co became absorbed into the downburst portion of the accelerating supercell, which showed classic bow-echo characteristics as it entered the southeastern quarter of the county. The downburst affected a larger area, including Franconia, as it raced into Alexandria. Substantial damage, in the form of dozens more felled trees and power lines and structural damage (especially in Alexandria) was reported. Debris had to be removed from the above ground portion of Metro between the King Street and Van Dorn stations.

#### Culpeper County

Countywide	24	1600EST 1615EST			0	0	25K		Lightning
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The flanking line of storms southwest of the main supercell produced gusty winds enough to knock down numerous trees and limbs across much of Culpeper Co.

#### Prince William County

Lake Ridge	24	1605EST			0	0	3K		Lightning
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Lightning damaged a chimney on Manchester Lane in Lake Ridge.

#### Fairfax County

Alexandria	24	1610EST 1615EST			0	0	100K		Thunderstorm Wind
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Thunderstorm wind gusts caused excessive roof damage to an apartment complex. Nine families were forced to temporarily relocate.

#### Arlington County

National Airport	24	1610EST 1621EST			0	0	50K		Thunderstorm Wind (G51)
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A downburst struck extreme southeastern Arlington Co, producing sustained winds of 46 mph with a measured gust to 59 mph at Washington/National Airport (DCA). A USAir shuttle inexplicably departed from the airport at approximately 1615EST, just as the downburst was nearing full strength. One of the plane's wings struck a runway light, causing minor damage. No injuries were reported on the flight. Additional tree and power line damage was noted in the Shirlington/Crystal City area.

#### Stafford County

Countywide	24	1630EST 1645EST			0	0	5K		Thunderstorm Wind
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Thunderstorm winds knocked down scattered trees and limbs throughout the county.

#### Spotsylvania County

Wilderness	24	1650EST			0	1	10K		Lightning
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A woman was checking the circuit breaker box in her garage when lightning struck. The ensuing power surge slammed the woman against a vehicle, knocking her unconscious for a short period of time.

#### Spotsylvania County

Spotsylvania to Lake Anna	24	1650EST 1700EST			0	0	90K		Thunderstorm Wind
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Thunderstorm winds knocked down trees and power lines across southern Spotsylvania Co. Several trees fell onto homes. At Robert E. Lee Elementary school near Spotsylvania, the wind ripped four 12-ton air conditioning units from their bases and tossed them across the roof. The winds also damaged a wall and blew three trash dumpsters through a fence. A roof was blown off a house near Lake Anna.



# National Weather Service

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### VIRGINIA, North

#### Rockingham County

Timberville to 2 S New Market	24	1800EST 1810EST			0	0	30K		Thunderstorm Wind
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Another line of strong to severe thunderstorms developed along the surface pressure trough during the evening, stretching from Washington Co Maryland through Augusta Co Virginia. A few of the storms became severe, including one in northeastern Rockingham Co. In Timberville, gusty winds caused damage to at least one home and dozens of trees. One resident reported hail the size of "aggie" marbles (about 1 inch in diameter). Farther east, along interstate 81, an eighteen-wheeler and its two empty trailers were flipped.

#### Rockingham County

Broadway	24	1803EST 1805EST	0.5	100	0	0	40K		Tornado (F1)
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A brief tornado, with estimated winds in excess of 72 mph, caused a variety of damage in a small area near Broadway. Several chimneys were blown off homes, and wrought-iron furniture was tossed into a swimming pool. Two homes and two poultry houses lost their roofs. Downed trees and wires were also noted around Broadway and just south of New Market.

### WEST VIRGINIA, East

#### Jefferson County

Shepherdstown	04	1837EST			0	0	30K		Lightning
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Lightning struck a home in Shepherdstown, setting it ablaze.

#### Pendleton County

W Portion	19	1230EST 1330EST			0	0	45K		Flash Flood
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Torrential thunderstorms rains produced widespread flash flooding over western Pendleton Co, particularly in the Cherry Grove and Mouth of Seneca area. A bridge near Buffalo Hills washed out, and the Friends Run overflowed it's banks. State route 33 closed for a period of time as well.

#### Hampshire County

Green Spring	19	1550EST 1600EST			0	0	75K		Thunderstorm Wind
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A severe thunderstorm knocked down numerous trees in Green Spring, including a few which blocked area roadways. One tree damaged a trailer. Partial damage was noted to several buildings at a local farm.

#### Hampshire County

Sw Portion	19	1630EST 1730EST			0	0	15K		Flash Flood
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#### Hardy County

2 SE Moorfield	19	1630EST 1730EST			0	0	25K		Flash Flood
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Torrential thunderstorm rains produced scattered flash flooding in the Potomac Highlands during the late afternoon and evening of the 19th. Some roads were closed in southwestern Hampshire Co, and basement flooding was prevalent in the Moorfield area.