

Storm Data and Unusual Weather Phenomena

June 2006

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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ATLANTIC OCEAN

ANZ531 Millers Island to Tolchester Beach	Chesapeake Bay Pooles Is To Sandy Pt Md 01	1902EST 1918EST			0	0			Marine Tstm Wind (EG34)
ANZ532 5 SE Annapolis	Chesapeake Bay Sandy Pt To N Beach Md 01	2109EST			0	0			Marine Tstm Wind (MG35) Wind gust measured at Thomas Point Light. A trough of low pressure was draped across the Mid Atlantic on June 1. This feature combined with high moisture content and instability in the atmosphere to promote scattered strong to severe thunderstorms. The thunderstorms first developed across the higher terrain of the Appalachian Mountains, then moved east across the Washington/Baltimore corridor.
ANZ534 Solomons Island	Chesapeake Bay Drum Pt To Smith Pt Va 02	1754EST 1812EST			0	0			Marine Tstm Wind (MG38)
ANZ536 Dahlgren	Tidal Potomac Indian Hd To Cobb Is Md 02	1756EST			0	0			Marine Tstm Wind (MG50) Wind gust was measured at Cuckold Creek.
ANZ533 Cove Pt	Chesapeake Bay N Beach To Drum Pt Md 02	1800EST 1820EST			0	0			Marine Tstm Wind (MG37)
ANZ532 5 SE Annapolis	Chesapeake Bay Sandy Pt To N Beach Md 02	1858EST 1901EST			0	0			Marine Tstm Wind (MG39)
ANZ537 Piney Pt to Lewisetta	Tidal Potomac Cobb Is Md To Smith Pt Va 04	1554EST 1700EST			0	0			Marine Tstm Wind (MG38)
ANZ534 Patuxent River Nas to Smith Island	Chesapeake Bay Drum Pt To Smith Pt Va 04	1605EST 1700EST			0	0			Marine Tstm Wind (MG38)
ANZ535 Rnld Reagan Natl Arpt	Tidal Potomac Key Bridge To Indian Hd Md 09	1453EST			0	0			Marine Tstm Wind (EG34)
ANZ533 Cove Pt	Chesapeake Bay N Beach To Drum Pt Md 09	1630EST 1700EST			0	0			Marine Tstm Wind (MG37)
ANZ535 Rnld Reagan Natl Arpt	Tidal Potomac Key Bridge To Indian Hd Md 09	1751EST			0	0			Marine Tstm Wind (MG36) Daytime heating combined with an unstable lower atmosphere and favorable amounts of moisture contributed to scattered afternoon and evening thunderstorms. A few of these storms reached severe limits with large hail and damaging wind gusts.
ANZ530 6 NW Pooles Island	Chesapeake Bay N Of Pooles Is Md 19	1549EST			0	0			Marine Tstm Wind (MG52)
ANZ535 7 E Wdrow Wilson Mem	Tidal Potomac Key Bridge To Indian Hd Md 19	1559EST			0	0			Marine Tstm Wind (MG55) 55 Knot wind gust measured at Andrews Airforce Base.
ANZ535 7 E Wdrow Wilson Mem	Tidal Potomac Key Bridge To Indian Hd Md 19	1735EST			0	0			Marine Tstm Wind (MG39) 39 Knot wind gust measured at Andrews Airforce Base.
ANZ532 5 SE Annapolis to 4 S Stevensville	Chesapeake Bay Sandy Pt To N Beach Md 19	1818EST 1831EST			0	0			Marine Tstm Wind (MG40) 35 Knot wind gust measured at Thomas Point Lighthouse, and a 40 knot wind gust measured at Kent Island. A strong cold front moved from the Ohio Valley in the early morning of June 19, then across the Mid Atlantic during the late afternoon and evening. This cold front fired strong to severe thunderstorms as it encountered an atmosphere that was rich in moisture and very unstable. In addition to numerous occurrences of damaging wind gusts of around 60 mph across the Baltimore-Washington corridor, there were also several instances of flash flooding. Numerous cars were stuck in flooded roadways across both Northern Virginia and Central and Southern Maryland. Strong winds also occurred on the tidal waters of the Potomac River and Maryland portion of the Chesapeake Bay.

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					Killed	Injured	Property

ATLANTIC OCEAN

ANZ531 3 N Riviera Beach	Chesapeake Bay Pooles Is To Sandy Pt Md 27 1224EST Wind estimated near Francis Scott Key Bridge in Baltimore.	0	0	0	0	0	Marine Tstm Wind (EG34)
ANZ532 5 SE Annapolis	Chesapeake Bay Sandy Pt To N Beach Md 27 1531EST Wind estimated based on reports from Thomas Point Lighthouse.	0	0	0	0	0	Marine Tstm Wind (EG34)
ANZ537 Coltons Pt	Tidal Potomac Cobb Is Md To Smith Pt Va 27 1700EST A waterspout moved across the Tidal Potomac River and moved onshore at Chaptico.	0	0	0	0	0	Waterspout

DISTRICT OF COLUMBIA

District Of Columbia Northwest Portion	19 1720EST 4 trees reported down in the northwest quadrant of Washington, DC.	0	0	0	0	12K	Thunderstorm Wind (EG50)
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A strong cold front moved from the Ohio Valley in the early morning of June 19, then across the Mid Atlantic during the late afternoon and evening. This cold front fired strong to severe thunderstorms as it encountered an atmosphere that was rich in moisture and very unstable. In addition to numerous occurrences of damaging wind gusts of around 60 mph across the Baltimore-Washington corridor, there were also several instances of flash flooding. Numerous cars were stuck in flooded roadways across both Northern Virginia and Central and Southern Maryland. Strong winds also occurred on the tidal waters of the Potomac River and Maryland portion of the Chesapeake Bay.

District Of Columbia Countywide	25 2100EST 27 0000EST	0	0	0	0	10M	Flash Flood
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Extensive damages were caused by prolonged flash flooding in Rock Creek Park in Washington, DC. The National Park Service reported several parked vehicles were swept away by flood waters, including park vehicles. Image credit National Park Service, Rock Creek Park staff.

A weak cold front settled over the forecast area from June 23 until June 27. Waves of low pressure rode northeast along the front. Flow in the atmosphere was parallel to the boundary, producing several rounds of training echoes. As a result, double digit rainfall totals affected parts of the region through the five days. There were also several rounds of severe weather with damaging winds and large hail during the period.

A slow-moving line of thunderstorms fired along a tropical moisture plume and dumped between 4 and 7 inches of rain in Washington DC, causing extensive urban flooding on June 25 and June 26. Washington National Airport recorded more than 10 inches of rain, with new daily records being set both Sunday and Monday. Numerous roadways were flooded and/or closed,

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DISTRICT OF COLUMBIA

including some major arteries like the Capital Beltway near the Woodrow Wilson Bridge due to a mudslide. The IRS Building, National Archives, Department of Justice, and Environmental Protection Agency buildings were closed for the beginning of the workweek. Extensive power outages across the region occurred during this event. Major disruption of transportation was experienced June 26 due to the flooding. MARC Commuter rail experienced disruptions, Virginia Railway Express commuter rail did not operate, and flooding in underground tunnels forced much of the Washington Metro rail to close. At one point, 4 feet of water was reported in the 9th Street tunnel in DC.

Rock Creek flooded, and threw several vehicles up against trees due to the fast flowing high flood waters. The National Park Service reported severe damages at Rock Creek Park at a level more severe than damages sustained during Hurricane Isabel in September, 2003. Severe erosion occurred along park roads and trails. Numerous trees were downed all around the park area. Many roads were closed for several days around the park.

This storm significantly contributed to June 2006 being the wettest ever in Washington DC. The monthly rainfall total reached 14.02 inches at Reagan National Airport, much of that from this late June heavy rainfall event.

Damage estimates for this weather event were estimated using information from the National Park Service, newspaper reports, and local Emergency Management officials.

MARYLAND, Central

Montgomery County

Northwest Portion

01	1745EST								
		0	0	500K					Lightning

Newspaper reports indicated that at least 3 house fires occurred due to intense lightning associated with the strong to severe thunderstorms which moved through the county. The house fires occurred in the northwest portion of Montgomery County.

Montgomery County

Rockville

01	1745EST								
		0	0	15K					Thunderstorm Wind (EG50)

Numerous powerlines were downed.

Howard County

Ellicott City

01	1810EST								
		0	0	100K					Lightning

Lightning associated with severe thunderstorms caused a fire to break out in the roof of a church in Ellicott City.

Howard County

Ellicott City

01	1810EST								
		0	0	25K					Thunderstorm Wind (EG50)

Numerous trees were downed.

Baltimore County

4 NE Fullerton

01	1812EST								
		0	0						Hail(0.88)

A trained spotter reported nickel sized hail on Belair Road near Interstate 695.

Baltimore City (C)

Baltimore

01	1830EST								
		0	0	20K					Thunderstorm Wind (EG50)

Trees downed on the east side of the city.

Baltimore City (C)

5 NE Baltimore

01	1840EST 1940EST								
		0	0						Flash Flood

A trained spotter reported water flowing across Belair Road near Interstate 695.

Baltimore City (C)

Baltimore

01	1930EST 2030EST								
		0	0						Flash Flood

Flash flooding was reported in the eastern portion of the city.

Baltimore County

White Marsh

01	2030EST 2130EST								
		0	0						Flash Flood

Intersection of Route 1 and Philadelphia Road was flooded.

Baltimore County

East Portion

01	2130EST 2200EST								
		0	0	10K					Flash Flood

The Fire Department conducted a water rescue near Stemmers Run.

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MARYLAND, Central

A trough of low pressure was draped across the Mid Atlantic on June 1. This feature combined with high moisture content and instability in the atmosphere to promote scattered strong to severe thunderstorms. The thunderstorms first developed across the higher terrain of the Appalachian Mountains, then moved east across the Washington/Baltimore corridor.

Harford County

**Havre De Grace to
Abingdon**

02	2135EST				0	0	10K		Flash Flood
03	0030EST								

A water rescue occurred in Havre de Grace, and Philadelphia Road was closed in Abingdon near Route 136 due to flash flooding.

Baltimore County

**Fullerton to
White Marsh**

02	2245EST				0	0	25K		Flash Flood
03	0010EST								

Water rescues in Fullerton and White Marsh where cars drove into flooded roads.

Montgomery County

Germantown

02	2315EST				0	0			Flash Flood
03	0015EST								

Roads closed due to flash flooding.

A cold front, along with an area of low pressure, moved across Central and Eastern Maryland late on June 2. The weather system brought moisture from the Atlantic Ocean and spread locally heavy rains across the area. Several instances of flash flooding occurred in the area due to this weather system.

Baltimore County

5 SW Parkton

09	1200EST				0	0			Hail(0.88)
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Nickel sized hail was reported.

Daytime heating combined with an unstable lower atmosphere and favorable amounts of moisture contributed to scattered afternoon and evening thunderstorms. A few of these storms reached severe limits with large hail and damaging wind gusts.

Prince George'S County

(Adw)Andrews Afb Cam

19	1559EST				0	0			Thunderstorm Wind (MG55)
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Wind gust was measured at the automated weather station at Andrews Airforce Base.

Prince George'S County

**Oxon Hill to
1 SE Hillcrest Hgts**

19	1730EST				0	0	10K		Thunderstorm Wind (EG50)
	1735EST								

Large branches and powerlines downed in Oxon Hill and Marlow Heights.

Prince George'S County

Upper Marlboro

19	1930EST				0	0	40K		Flash Flood
	2100EST								

Flooded roads in several areas. Cars stuck in flooded roads.

A strong cold front moved from the Ohio Valley in the early morning of June 19, then across the Mid Atlantic during the late afternoon and evening. This cold front fired strong to severe thunderstorms as it encountered an atmosphere that was rich in moisture and very unstable. In addition to numerous occurrences of damaging wind gusts of around 60 mph across the Baltimore-Washington corridor, there were also several instances of flash flooding. Numerous cars were stuck in flooded roadways across both Northern Virginia and Central and Southern Maryland. Strong winds also occurred on the tidal waters of the Potomac River and Maryland portion of the Chesapeake Bay.

Allegany County

**South Portion to
Bowling Green**

22	2010EST				0	0	22K		Thunderstorm Wind (EG50)
	2020EST								

Strong winds brought several electrical wires down in South Cumberland and Bowling Green. A small brush fire started due to arcing in Bowling Green.

Scattered showers and thunderstorms developed ahead of an approaching cold front. Some of these storms became severe, causing damaging winds and large hail.

Harford County

Countywide

24	1600EST				0	0	50K		Flash Flood
	2300EST								

Numerous road closures and water rescues were reported countywide. Some of the hardest hit areas were near Bel Air and Joppa. In Bel Air, Plum Tree Run overflowed its banks. A water rescue was needed when a vehicle was washed over the embankment on South Tollgate Road. In Joppa, Whitaker Mill Road as well as Bel Air Road between Harford Road and Connolly Road flooded.

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MARYLAND, Central

Baltimore County

**White Hall to
Perry Hall**

24	1640EST 1900EST				0	0	40K		Flash Flood
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Spotter reports deep water across Clifford Road in White Marsh. Two swift water rescues with vehicles occurred in Perry Hall, with officials reporting chest high water in the street.

Washington County

Hagerstown

25	1500EST 1800EST				0	0			Flash Flood
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Numerous roads closed due to flash flooding.

Montgomery County

Germantown

25	1800EST 2100EST				0	0			Flash Flood
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Several water rescues were reported near Germantown due to flash flooding.

Howard County

Countywide

25 26	1830EST 0000EST				0	0	150K		Flash Flood
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Numerous road closures and water rescues reported countywide. Some of the hardest hit areas were Ellicott City, Savage and Columbia. Three families were rescued by boat from flooded homes. Deer Creek came out of its banks along Sandy Hook Road. Part of the Vollmerhausen Road Bridge was washed away. Harriet Tubman Lane was closed due to high water and mud in Simpsonville.

Baltimore County

Countywide

25 26	2000EST 0300EST				0	0	100K		Flash Flood
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Numerous roads were closed countywide due to flash flooding. Water rescues occurred on Route 45/York Rd as well as on Seminary Road in Towson. A basement flooded in Timonium. Baltimore County Fire Department reports that Philadelphia Road between Raphael Road and Jones Road was closed until further notice due to washout in White Marsh. The Patapsco River overflowed its banks on the Baltimore County side of Frederick Road. Annapolis Road in Baltimore Highlands was flooded. The MARC's Brunswick and Camden routes closed, while other routes were disrupted. In some cases, the understructure of the track was washed away.

Baltimore City (C)

Baltimore

25 26	2000EST 0100EST				0	0			Flash Flood
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The Water Treatment Plant reported that streams overflowed their banks across the city. Jones Falls topped its banks, flooding parts of Clipper Mill Road and Union Avenue. Thames Street in the Fells Point neighborhood flooded.

Montgomery County

Countywide

25 26	2100EST 0200EST				0	0	1.6M		Flash Flood
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Numerous county roads closed in the southeastern part of the county near the Washington DC line. There were 147 reports of flooded basements. Twenty five swift water rescues occurred.

In Chevy Chase, firefighters used boats to rescue 30 people trapped inside a recreational center. The Chevy Chase Village area off Wisconsin Ave had knee-deep water. There were 45 individual rescues Meadowbrook Park. Water reached the window of a stalled car on a bridge over great Seneca Creek in upper Montgomery County. A road was washed out at US 29 at New Hampshire Avenue in Silver Spring. Three swift water rescues occurred in Rock Creek Park. About 26 vehicles were recovered after water reached their windows. A driveway collapsed on Colesville Road in Silver Spring. Boats were used to rescue 30 men at a field house in Candy Cane City Park. Colesville received 12.5 inches during the event. Significant damage was reported in Northwest Branch Park when the river topped its banks by approximately 100 yards.

Anne Arundel County

Countywide

25 26	2200EST 1400EST				0	0	40K		Flash Flood
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Numerous flooded roads and water rescues countywide. Some of the hardest hit areas included Maryland City, Jessup, Hanover, and Tipton Airport. Part of Tipton Airfield was cover by more than 3 feet of water. A car was swept off Oak Hill Drive, trapping a 59 year old man inside behind the gates of the Oak Hill Detention Center. The car was submerged above the window sill. He was not injured.

Harford County

Countywide

25 26	2200EST 0800EST				0	0	12K		Flash Flood
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MARYLAND, Central

Numerous road closures and water rescues occurred. Regent Drive in the development of West Riding reported flash flooding. A water rescue occurred on Otter Creek.

Prince George'S County

Countywide	25	2200EST			0	0	2.5M		Flash Flood
	26	1600EST							

Six people in several cars were stranded when they drove through a stream that had backed up in the 10800 block of Lanham-Severn Road in Glen Dale. Numerous road closures and water rescues were reported near Brandywine. In Hyattsville, 15 homes were evacuated due to flash flooding. Water rescue teams helped 46 adults and 23 children. In Edmonston, 34 homes flooded and 60 people were rescued due to flash flooding. There were reports of nearly 5 feet of water in basements. Numerous basements were flooded when the Anacostia River overflowed its banks. Standing water was reported on High Bridge Road in Bowie. Governors Bridge Road at the Anne Arundel County line was closed due to high water.

Calvert County

Chesapeake Beach	26	0100EST			0	0			Flash Flood
		0400EST							

A mudslide occurred on B Street near the boardwalk in Chesapeake Beach.

Montgomery County

Darnestown	26	0700EST			0	0			Flood
	28	1900EST							

Seneca Creek overtopped its banks. Riley's Lock Road was under between 3 and 4 feet of water.

Montgomery County

Countywide	26	1315EST			0	0	100K		Flash Flood
		2300EST							

Four junctures of River Road between Potomac Village and Wilson Lane in Bethesda were closed due to high water. There were 14 water rescues of people stranded in vehicles.

Harford County

Fallston to Abingdon	26	1800EST			0	0	50K		Flash Flood
		2200EST							

Several water rescues reported. One such report was for a 16 year old boy in Fallston. A water rescue occurred in Abingdon when two 18-year olds drove into high water along South Calvary Road (Route 136) and Philadelphia Road (Route 7). Another water rescue occurred on Barksdale Road and Joppa Farm Road.

Prince George'S County

Laurel	26	1830EST			0	0			Flash Flood
	27	0900EST							

Residents in northern Laurel were evacuated when Rocky Gorge Dam opened floodgates around 730 PM. Residents were allowed to return around 10 AM the next morning. Several roads were flooded and closed due to the flooding at Rocky Gorge Dam.

Washington County

Hagerstown to Boonsboro	27	1300EST			0	0	25K		Flash Flood
	28	0100EST							

In Hagerstown, several road closures and flooded basements were reported. Saint Clair Avenue and Northern Avenue had high water. Hamilton Run overflowed, flooding a backyard along Brookline Avenue. Route 66 and Mount Edna Road flooded near Boonsboro.

Charles County

Countywide	27	1400EST			0	0	50K		Flash Flood
		2300EST							

Flooding and downed trees due to saturated grounds were reported countywide. Flash flooding occurred on Middletown Road, Billingsley Road, and Turkey Hill Road in Waldorf and White Plains. Bryans Road and Fenwick Road experienced flash flooding. Bumpy Oak Road and Pomfret Road in Pomfret reported flash flooding.

Carroll County

Countywide	27	1530EST			0	0			Flash Flood
	28	1200EST							

Two people were rescued from a Mount Airy home at the intersection of Twin Arch and Old Frederick Roads after the South Branch of the Patapsco River overflowed it banks. Numerous roads were flooded countywide.

Montgomery County

Rockville	27	1530EST			0	0	100K		Flash Flood
	28	0200EST							

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MARYLAND, Central

Numerous Road closures were reported countywide. In Derwood, a bridge was damaged over a creek between Bowie Mill Road and Redland Middle School. Asphalt was torn up and debris scattered about. Nearly 2000 people in Montgomery County were evacuated when engineers on site determined that the Lake Needwood Dam may fail due to substantially above normal water levels on June 28. Fortunately, this did not occur.

Frederick County

Countywide

27	1600EST				5	1	500K		Flash Flood
28	1100EST								

A mudslide closed a section of Harp Mill Road in Wolfsville. Numerous road closures and water rescues were reported countywide. The Monacacy River overflowed, flooding a parking lot and field along Monocacy Boulevard. Basement flooding occurred in Emmitsburg, Myersville and Middletown. Shank Road was closed indefinitely to repair a washed-out pipe.

Three adults died when they were washed out of the bed of a pickup truck east of Myersville. They evacuated their car when it stalled in high water near Ellerton on Route 17 along the Middle Creek around 830 PM. The driver of the pickup truck gave the three a ride shortly before the three people went missing. It is unsure whether they were swept out or tried to swim.

Additionally, two teenagers died after exploring Little Pipe Creek in New Midway along the Frederick-Carroll County line. They were last seen at 630 PM when they left home to explore Little Pipe Creek in Carroll County. One bicycle and some clothing belonging to the boys was found at the bank of the creek near MD Route 194. Authorities believe the boys went swimming and were washed away. The currents on June 28 were so strong that one of the rescue boats capsized and injured a man who was performing rescue operations.

??VE, ??VE, ??VE, M?IW, M?IW

Harford County

Countywide

27	1600EST				0	0	125K		Flash Flood
28	0300EST								

Between 500 and 800 PM, more than a dozen roads in Bel Air, Abingdon, and Joppa were closed due to high water, including Route 40 at the Baltimore-Harford County Line. There were five incidents of vehicles stuck in flooded roadways. Water rose above the guardrails of a bridge and swept a car 20 ft downstream at the Plum Tree and South Tollgate roads intersection. Overall, at least 3 dozen flooded roads in the county, several water rescues occurred, and numerous trees were downed due to excessive water. There were voluntary evacuations of weekend cabins near Broad Creek in the Darlington area.

Anne Arundel County

Annapolis to Laurel Suburban Arp

27	1800EST				0	0	30K		Flash Flood
28	0100EST								

Secondary roads near Annapolis were flooded. The entrance to Laurel Park Racetrack was under several inches of water. A foot of water flooded a basement in Annapolis. Route 450 east of Crofton was closed due to high water.

Baltimore County

Countywide

27	1900EST				0	0	50K		Flash Flood
28	0300EST								

Street flooding was reported throughout the county. Trees were downed due to excessive water and saturated grounds.

A weak cold front settled over the forecast area from June 23 until June 27. Waves of low pressure rode northeast along the front. Flow in the atmosphere was parallel to the boundary, producing several rounds of training echoes. As a result, double digit rainfall totals affected parts of the region through the five days.

Scattered areas of flash flooding began on June 23 and continued into June 24. Then, flooding began to take on a more serious nature since the ground had become saturated in so many spots.

A slow-moving line of thunderstorms fired along a tropical moisture plume and dumped between 4 and 7 inches across the Baltimore Metro, causing extensive urban flooding on June 25 and June 26. Major disruption of transportation was experienced June 26 due to the flooding. MARC Commuter rail experienced disruptions, flooding in underground tunnels forced much of the Washington Metro rail to close, and numerous roads were closed due to high water or mudslides.

Nearly 2000 people in Montgomery County were evacuated when engineers on site determined that the Lake Needwood Dam may fail due to substantially above normal water levels on June 28. Fortunately, this did not occur.

Unfortunately however, 5 people lost their lives due to flooding. Three adults died when they were washed out of the bed of a pickup truck east of Myersville in Frederick County Maryland. They evacuated their car when it stalled in high water near Ellerton on Route 17 along the Middle Creek around 8:30 PM. The driver of the pickup truck gave the three a ride shortly before the three people went missing. It is unsure whether they were swept out or tried to swim. Additionally, two teenagers died after exploring Little Pipe Creek in New Midway, MD, along the Frederick-Carroll County line. They were last seen at 6:30 PM when they left home to explore Little Pipe Creek in Carroll County. One bicycle and some clothing belonging to the boys were found at the bank

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MARYLAND, Central

of the creek near Route 194. Authorities believe the boys went swimming and were washed away. The currents June 28 were so strong that one of the rescue boats capsized and injured a man.

St. Mary'S County

Chaptico to 3 W Chaptico	27	1655EST 1700EST	3	50	0	0	1M		Tornado (F0)
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A waterspout came onshore from the Chesapeake Bay near Chaptico as a tornado, and caused structural damage to several properties in addition to extensive tree damage. The storm destroyed six barns and a carport at two farms along Hurry Road, and also destroyed a barn off Beavan Lane. Several homes and commercial buildings were also damaged. Since an official damage survey was not conducted, the path length, width and F scale rating were estimated based on reports from Emergency Management and newspapers.

MDZ011-011-014

Southern Baltimore - Anne Arundel

	27	2100EST 0500EST			0	0	20K		Coastal Flood
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Baltimore County Citizen Core Program reported tidal flooding near Bowley Bar with two roads along Middle River under water and impassable. Water was up on properties near Middle River and Bowley Bar.

A weak cold front settled over the forecast area from June 23 until June 27. Waves of low pressure rode northeast along the front. Flow in the atmosphere was parallel to the boundary, producing several rounds of training echoes. As a result, double digit rainfall totals affected parts of the region through the five days. The area of low pressure and stalled frontal boundary contributed to a weather pattern conducive for strong and prolonged onshore winds. These winds caused abnormally high tidal departures in the Chesapeake Bay and Tidal Potomac River.

VIRGINIA, North

Shenandoah County

Woodstock to Mt Jackson	01	1515EST			0	0	15K		Thunderstorm Wind (EG50)
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Trees were downed.

A trough of low pressure was draped across the Mid Atlantic on June 1. This feature combined with high moisture content and instability in the atmosphere to promote scattered strong to severe thunderstorms. The thunderstorms first developed across the higher terrain of the Appalachian Mountains, then moved east across the Washington/Baltimore corridor.

Arlington County

Arlington	09	1803EST			0	0	20K		Thunderstorm Wind (EG50)
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Trees downed at intersection of Columbia Pike and Columbus Street.

Daytime heating combined with an unstable lower atmosphere and favorable amounts of moisture contributed to scattered afternoon and evening thunderstorms. A few of these storms reached severe limits with large hail and damaging wind gusts.

Fauquier County

3 NNE Cassanova	19	1435EST			0	0	40K		Thunderstorm Wind (EG50)
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An area of extensive tree damage was reported by the public. Many trees were snapped off with unsecured outdoor property being picked up and thrown around by the winds.

Fairfax (C)

Fairfax	19	1650EST			0	0	10K		Thunderstorm Wind (EG50)
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A tree fell on a car along Bob Court in Fairfax.

Fairfax County

Franconia to Springfield	19	1705EST 1710EST			0	0	50K		Thunderstorm Wind (EG55)
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A tree fell on a car on Franconia Road at Van Dorn Street. Numerous trees and powerlines downed in the Franconia and Springfield areas. Extensive tree damage occurred in Springfield near Springfield Plaza.

Arlington County

Arlington	19	1715EST			0	0	5K		Thunderstorm Wind (EG50)
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Tree downed at the intersection of North Glebe and Chesterbrook Roads.

Fairfax County

1 W Annandale	19	1720EST 1820EST			0	0	10K		Flash Flood
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Water was across Route 236 at Wakefield Chapel Road. Water also flooded into a building in the 5500 block of Backlick Road.

Storm Data and Unusual Weather Phenomena

June 2006

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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VIRGINIA, North

A strong cold front moved from the Ohio Valley in the early morning of June 19, then across the Mid Atlantic during the late afternoon and evening. This cold front fired strong to severe thunderstorms as it encountered an atmosphere that was rich in moisture and very unstable. In addition to numerous occurrences of damaging wind gusts of around 60 mph across the Baltimore-Washington corridor, there were also several instances of flash flooding. Numerous cars were stuck in flooded roadways across both Northern Virginia and Central and Southern Maryland. Strong winds also occurred on the tidal waters of the Potomac River and Maryland portion of the Chesapeake Bay.

Augusta County

Mt Sidney

22	1730EST 1733EST				0	0			Hail(1.75)
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Golfball sized hail occurred with a severe thunderstorm just southwest of Shenandoah Valley Regional Airport.

Augusta County

Mt Sidney

22	1730EST				0	0	125K		Thunderstorm Wind (EG60)
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Severe winds hit an area just southwest of the Shenandoah Valley Regional Airport. Numerous trees were downed, minor property damage occurred to a few buildings and homes, and one tree fell on a parked car.

Scattered showers and thunderstorms developed ahead of an approaching cold front. Some of these storms became severe, causing damaging winds and large hail.

Prince William County

Gainesville

22	2124EST 2128EST				0	0	12K		Thunderstorm Wind (EG50)
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Several trees were downed in Gainesville.

Prince William County

Nokesville

22	2125EST				0	0	40K		Thunderstorm Wind (EG50)
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A 100 year old tree fell and damaged a roof of a home in Nokesville.

Manassas (C)

Manassas

22	2130EST				0	0	20K		Thunderstorm Wind (EG50)
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Thunderstorms brought several trees and large limbs down across the city.

Fairfax County

Countywide

22	2145EST 2150EST				0	0	35K		Thunderstorm Wind (EG50)
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Numerous trees were downed across Burke, West Springfield, Centreville, and Clifton.

Loudoun County

Aldie

22	2230EST				0	0	20K		Thunderstorm Wind (EG50)
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Trees were downed across Route 15 South.

Augusta County

New Hope

23	1720EST				0	0			Hail(1.75)
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Golf ball-sized hail was reported in New Hope.

Augusta County

New Hope to Crimora

23	1720EST				0	0	20K		Thunderstorm Wind (EG50)
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Strong winds brought several trees down, blocking several roads in New Hope and Crimora.

Harrisonburg (C)

Harrisonburg

23	1730EST				0	0			Hail(1.75)
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Hail to the size of golfballs occurred.

Harrisonburg (C)

Harrisonburg

23	1730EST				0	0	50K		Thunderstorm Wind (EG50)
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Strong winds brought several trees down, which ended up damaging a deck, roof and gutters of a house as well as a nearby parked car.

Scattered showers and thunderstorms developed ahead of an approaching cold front. Some of these storms became severe, causing damaging winds and large hail.

Augusta County

Weyers Cave

23	1825EST 1840EST				0	0			Hail(1.75)
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Hail to the size of golfballs occurred near Weyers Cave.

Storm Data and Unusual Weather Phenomena

June 2006

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

VIRGINIA, North

Augusta County

Weyers Cave	23	1825EST 1840EST			0	0	500K	Thunderstorm Wind (EG60)
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Multiple trees were downed across roads. Fifteen to twenty homes and six barns and silos were damaged by severe thunderstorm winds. One silo and one 2 and a half story barn were destroyed.

Albemarle County

Keene to Esmont	23	2000EST 2200EST			0	0		Flash Flood
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Numerous roads were closed across Keene, Scottsville, and Esmont due to high water and debris.

Nelson County

6 SE Nellysford	23 24	2100EST 0000EST			0	0		Flash Flood
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County Road 617 was closed due to flash flooding from Buck Creek.

A weak cold front settled over the Mid Atlantic between June 23 and June 27. Waves of low pressure rode northeast along the front. Flow in the atmosphere was parallel to the boundary, producing several rounds of persistent showers and thunderstorms. As a result, double digit rainfall totals affected parts of the region through the five day period.

Scattered areas of flash flooding began on June 23 and continued into June 24. Then, flooding began to take on an even more serious nature since the ground had become saturated in so many spots. A slow-moving line of thunderstorms fired along a tropical moisture plume and dumped between 4 and 7 inches of rain across Northern Virginia, causing extensive urban flooding on June 25 and June 26. Extensive power outages across the region occurred during this event. Major disruption of transportation was experienced June 26 due to the flooding. MARC Commuter rail experienced disruptions, Virginia Railway Express commuter rail did not operate, flooding in underground tunnels forced much of the Washington Metro rail to close, and numerous roadways were flooded and closed due to high water or mudslides. Numerous water rescues were needed for the people who were stranded in their cars. In one neighborhood in Huntington, Virginia, 158 homes were declared uninhabitable by building inspectors due to contamination and lack of utilities. Another two homes and one business were condemned.

Culpeper County

Brandy	24	1900EST 2000EST			0	0		Flash Flood
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Routes 684 near the intersection of Route 663 impassable due to flash flooding.

Prince William County

Countywide	24	1900EST 2100EST			0	0	20K	Flash Flood
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Prince William County officials reported numerous roads closed with flash flooding near Manassas, including Route 28. There were also reports of flooded basements in the same area.

Fairfax County

Centreville	24 25	1905EST 0000EST			0	0		Flash Flood
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A water rescue was performed by emergency responders when a father and two children were stranded in their car, which was stalled out in a flooded parking lot.

Fairfax County

Reston to Vienna	25	0800EST 1300EST			0	0		Flash Flood
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Fairfax County police reported numerous road closures due to high water. Some roadways included are Old Courthouse Road at Besley Road, Stuart Mill Road at Birdfoot Lane, and Hunter Mill Road at Cedar Pond Drive.

Fauquier County

Catlett	25	1300EST 1600EST			0	0		Flash Flood
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Burwell Road one half mile north of Route 605 was flooded when Kettle Run went out of its banks.

Albemarle County

Southeast Portion	25	1600EST 1900EST			0	0		Flash Flood
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Officials reported multiple road closures in southeast part of county due to flash flooding.

Augusta County

Sangerville to Mt Solon	25	1600EST 2030EST			0	0		Flash Flood
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Storm Data and Unusual Weather Phenomena

June 2006

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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VIRGINIA, North

Gum Spring Branch in Gypsy Hill Park overflowed its banks and flooded several baseball fields. High water near Sangerville and Mount Solomon closed four roads.

Staunton (C)

Staunton	25	1600EST 1800EST			0	0	10K		Flash Flood
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Water and mud infiltrated a basement on Tyler Street. Mason Street was flooded.

Waynesboro (C)

Waynesboro	25	1600EST 1800EST			0	0			Flash Flood
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An alley behind King Avenue was flooded. There was also a flooded section of 13th Street between Magnolia and Linden Avenues.

Culpeper County

Culpeper	25	1745EST 1945EST			0	0			Flash Flood
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A secondary road was closed due to high water.

Loudoun County

Countywide	25	1830EST 2100EST			0	0			Flash Flood
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Washington Dulles Airport reported water rescues on access roads and commercial parking lots around the airport. Some of the major roads that were closed included U.S. Route 50, Evergreen Mills, and Cedar Green Road due to flash flooding.

Prince William County

Countywide	25	1830EST 2300EST			0	0	55K		Flash Flood
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Flash flooding occurred at the intersection of I-66 and US Route 29 in Gainesville. Wellington Road was closed due to flash flooding and Hayden Elementary School reported flooding. The Linton Hall Road corridor between Balls Fords Road and Nissan Pavilion were blocked due to high water. More than 25 roads across the county were under water. Up to 100 trees were downed due to saturated grounds. Twelve homes flooded in Yorkshire, near Manassas Park. Damage estimates \$55,000.

Fairfax County

Chantilly	25	1845EST 2200EST			0	0	15K		Flash Flood
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A car was submerged. Several other roads in the area closed due to flash flooding.

Fairfax (C)

Fairfax	25 26	1930EST 0000EST			0	0			Flash Flood
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City officials reported nearly all major roads were closed throughout the city due to flash flooding.

Fredericksburg (C)

Fredericksburg	25 26	2000EST 0100EST			0	0			Flash Flood
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A secondary county road was closed due to high water.

Fairfax County

Huntington	25 26	2045EST 0500EST			0	0	11M		Flash Flood
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Flash flooding occurred when Cameron Run came out of its banks. 158 homes were declared uninhabitable by building inspectors due to contamination and/or lack of utilities. Another two homes and one business were condemned. Estimated damage \$11 million.

Alexandria (C)

Alexandria	25 26	2100EST 0600EST			0	0	35K		Flash Flood
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I-495 at Telegraph Rd was closed due to high water. Two parking garages on Eisenhower Avenue were flooded, which damaged several parked cars.

Arlington County

Arlington	25 26	2100EST 0600EST			0	0	3M		Flash Flood
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More than 10 heavily traveled roads were closed, including I-395, Route 110, and Washington Blvd. I-395 was closed at the Glebe Rd exit due to high water. Several cars were submerged up to their hoods. The George Washington Memorial Parkway South at the Washington National Airport exit was closed.

Storm Data and Unusual Weather Phenomena

June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>VIRGINIA, North</u>									
Fairfax County									
Ft Belvoir	25 26	2100EST 0500EST			0 0	0 0	15K		Flash Flood
			A car was flooded near Ft. Belvoir.						
Stanton (C)									
Stanton	25 26	2300EST 0200EST			0 0	0 0			Flash Flood
			Several primary and secondary roads were closed due to flash flooding.						
Augusta County									
Craigsville	26 28	0845EST 1100EST			0 0	0 0			Flash Flood
			Numerous roads along and near Route 687 and Route 42 were closed due to high water in Craigsville.						
Augusta County									
Sangerville	26 28	0930EST 1100EST			0 0	0 0			Flash Flood
			Numerous roads were closed in Sangerville. Some of these roads included Route 764 from Route 730 to Route 766, Route 766 from Route 727 to Route 764, and Route 727 from Route 766 to Route 731.						
Fairfax County									
Countywide	26	1130EST 2300EST			0	0			Flash Flood
			VDOT and Fairfax County reported numerous roads closed countywide. Rock Hill Road near Old Ox Road closed due to high water. Holmes Run Creek overflowed its banks and a bridge crossing it washed out.						
Fredericksburg (C)									
Fredericksburg	26	1200EST 1800EST			0	0	10K		Flash Flood
			The Rappahannock River was out of its banks near the Falmouth Bridge on US 1. A pickup truck with a woman and several children stalled in water in Alum Spring Park.						
Spotsylvania County									
Countywide	26	1200EST 1800EST			0	0			Flash Flood
			Numerous reports of roads with high water countywide.						
Manassas (C)									
Manassas	26 27	1300EST 0700EST			0 0	0 0			Flash Flood
			Heavy rainfall caused flash flooding to continue through the overnight hours. County Emergency Management officials reported dozens of roads that remained closed, and dozens more with high water.						
Manassas Park (C)									
Manassas Park	26 27	1300EST 0700EST			0 0	0 0			Flash Flood
			Heavy rain and flash flooding continued through the overnight hours. A swift water crossing on Compton Road and Old Centerville Road in Manassas Park had 6 inches of water flowing across the roadway. Emergency Management officials reported dozens of roads closed, and dozens more with high water.						
Prince William County									
Countywide	26 27	1300EST 0700EST			0 0	0 0			Flash Flood
			Heavy rain and flash flooding continued through the overnight hours. Emergency Management officials reported dozens of roads closed, and dozens more with high water.						
Augusta County									
2 W Barren Ridge to Fishersville	27 28	0930EST 1100EST			0 0	0 0			Flash Flood
			Numerous roads were closed from just east of the City of Staunton to Fishersville due to high water. Between 50 and 75 people were evacuated from a flooded trailer park in Brands Flat. High water covered a bridge spanning Christians Creek on Jericho Road. A mudslide was reported on Richmond Road. A car was half submerged near Jericho Road.						
Highland County									
Countywide	27	1130EST 1500EST			0	0			Flash Flood
			Several low water crossings flooded countywide.						

Storm Data and Unusual Weather Phenomena

June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>VIRGINIA, North</u>									
Spotsylvania County									
Spotsylvania	27	1145EST 1300EST			0	0			Flash Flood
Debris was reported over the road near Jefferson Davis Highway and Spotsylvania Parkway due to receded flood waters.									
Albemarle County									
Crozet	27	1330EST 2200EST			0	0			Flash Flood
Flash flooding was reported in Crozet.									
Greene County									
Countywide	27	1330EST 2300EST			0	0	100K		Flash Flood
Saturated grounds due to heavy rains brought down trees countywide. Streams and rivers lifted out of their banks and flooded several roads.									
Clarke County									
Countywide	27	1400EST 2300EST			0	0			Flash Flood
Numerous roads were closed countywide due to flash flooding.									
Frederick County									
East Portion	27	1400EST 2300EST			0	0			Flash Flood
Numerous roads were closed, including east bound Virginia Route 7 near Greenwood Road and parts of Valley Mills Road due to high water.									
Warren County									
Front Royal	27	1400EST 2200EST			0	0	65K		Flash Flood
Water covered Happy Creek Road east of Front Royal near the Bing Crosby Stadium. Property adjacent to the stadium suffered damages when the fence was washed out. Morgan Ford Road was also flooded.									
Shenandoah County									
Countywide	27	1500EST 2100EST			0	0			Flash Flood
Numerous reports of roads flooded across the county.									
A weak cold front settled over the Mid Atlantic between June 23 and June 27. Waves of low pressure rode northeast along the front. Flow in the atmosphere was parallel to the boundary, producing several rounds of persistent showers and thunderstorms. As a result, double digit rainfall totals affected parts of the region through the five day period.									
Scattered areas of flash flooding began on June 23 and continued into June 24. Then, flooding began to take on an even more serious nature since the ground had become saturated in so many spots. A slow-moving line of thunderstorms fired along a tropical moisture plume and dumped between 4 and 7 inches of rain across Northern Virginia, causing extensive urban flooding on June 25 and June 26. Extensive power outages across the region occurred during this event. Major disruption of transportation was experienced June 26 due to the flooding. MARC Commuter rail experienced disruptions, Virginia Railway Express commuter rail did not operate, flooding in underground tunnels forced much of the Washington Metro rail to close, and numerous roadways were flooded and closed due to high water or mudslides. Numerous water rescues were needed for the people who were stranded in their cars. In one neighborhood in Huntington, Virginia, 158 homes were declared uninhabitable by building inspectors due to contamination and lack of utilities. Another two homes and one business were condemned.									
Orange County									
Barboursville	29	1530EST			0	0	5K		Thunderstorm Wind (EG50)
Several tree limbs were downed.									
Fauquier County									
3 SE Warrenton	29	1545EST			0	0			Hail(0.75)
Penny sized hail was reported.									
Fauquier County									
3 SE Warrenton	29	1545EST			0	0	10K		Thunderstorm Wind (EG50)
Several tree limbs were downed.									
A strong upper level disturbance swinging across the area encountered a warm and humid air mass across northern and central Virginia on June 29. Scattered showers and thunderstorms developed during the early afternoon hours, producing isolated reports of strong winds and hail.									

Storm Data and Unusual Weather Phenomena

June 2006

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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WEST VIRGINIA, East

Mineral County

Short Gap

01	1441EST				0	0	5K		Thunderstorm Wind (EG50)
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Tree downed with debris reported along Dirtyfoot Road and Knobley Road in the town of Short Gap.

Jefferson County

Charles Town to Bolivar

01	1600EST 1630EST				0	0	300K		Lightning
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Intense lightning occurred with a batch of strong thunderstorms as they moved across the Eastern Panhandle of West Virginia. Newspaper reports indicated several house fires in Jefferson County, with extensive property damage. A few trees were also damaged due to the intense lightning strikes. The times listed are estimated.

A trough of low pressure was draped across the Mid Atlantic on June 1. This feature combined with high moisture content and instability in the atmosphere to promote scattered strong to severe thunderstorms. The thunderstorms first developed across the higher terrain of the Appalachian Mountains, then moved east across the Washington/Baltimore corridor.

Jefferson County

5 SSE Shenandoah Jct

22	2130EST				0	0	10K		Thunderstorm Wind (EG50)
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Several trees were downed across roadways.

Scattered showers and thunderstorms developed ahead of an approaching cold front. Some of these storms became severe, causing damaging winds and large hail.

Berkeley County

Inwood

27	1400EST 2300EST				0	0	12K		Flash Flood
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Between 9 and 12 inches of water was reported at the intersection of US 11 and Route 51 in Inwood. A truck with two men was stuck in waist deep water at the intersection of Winchester Avenue and Gerrardstown Road. Douglas Grove Road was flooded.

Jefferson County

Millville to Harpers Ferry

27	1400EST 2200EST				0	0	25K		Flash Flood
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High water caused a vehicle accident on Highway 230 near Covenant Baptist Church. Spruce Street flooded. Water went into the Bolivar-Harpers Ferry Public Library. Basement flooding in homes in Bolivar.

Morgan County

Countywide

27	1600EST 2200EST				0	0	8K		Flash Flood
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Heavy rains and saturated grounds brought a couple trees down across roadways, including Quaint Acres Lane and along Route 9 near Largent. Water was reported over Mesner Road, New Hope Road, parts of Valley Road, and Packing Shed Road. A minor rockslide impeded traffic on Route 9 west of the scenic panorama.

A weak cold front settled over the forecast area from June 23 until June 27. Waves of low pressure rode northeast along the front. Flow in the atmosphere was parallel to the boundary, producing several rounds of training echoes. As the front retrograded northwest, several West Virginia counties experienced flash flooding.

Scattered areas of flash flooding began late on June 27 and continued into June 28. Numerous road closures and several water rescues were reported across the eastern Pan Handle of West Virginia.