



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

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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MARYLAND, Central

Prince George's County

North Portion	07	0230EST 0430EST			0	0			Heavy Rain
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MDZ009

Montgomery

07	0700EST 1900EST			0	0			Flood
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The Seneca Creek at Dawsonville crested at 7.95 feet. Bankful level is 7.5 feet.

An area of showers and thunderstorms with very heavy rainfall moved across western and central Maryland during the early morning hours of the 7th. The heaviest rain fell across western Allegany County where flash flooding was reported. The hardest hit area included Westernport, McCoole, Barton, and Rawlings. Streets and low lying areas became makeshift rivers as creeks overflowed their banks. Four homes received major damage and more than 40 basements were flooded. Flooded or damaged roads included Route 220 (McMullen Highway), Llewelyn Avenue, Tri-Towns Plaza Road, and George's Creek Road. A rock slide was reported on Route 135 in Westernport. The following streets in Westernport were damaged by flooding: Lincoln, Main, Central, McKinley, Wood, Poplar, Stoney Run, Potomac Hollow, Walnut, and Hickory. Several bridges leading to private property from McMullen Highway were washed out or damaged. Yard flooding, minor exterior damaged, or erosion was reported on properties along the following roads: Biddle Drive, McMullen Highway, Ketterman Lane, Abbey Lane, Red Rock Lane, McKinley Street, Gordon Street, Wood Street, Church Street, Greene Street, Creekside Drive, Mill Run Road, New George's Creek Road, Mt. Spring Road, and Donna Street. George's Creek near Westernport rose above the flood stage of 8.0 feet at 3:45 AM EDT, crested at 9.19 feet at 4:45 AM, and dropped below food stage by 600 AM. Rainfall totals included 4.9 inches at George's Creek near Westernport, 4.1 inches at McCoole Pumping Station, 3.2 inches at Biers Lane and Savage River Dam, 2.6 inches at the Oldtown Treatment Plant, 2.37 inches in Frostburg, and 2.3 inches at Wrights Crossing Pump Station.

In Washington County, rainfall totals included 3.41 inches in Knoxville and 2.63 inches in Sharpsburg. In Montgomery County, rainfall totals included 2.64 inches in Olney, 2.56 inches in Washington Grove, 2.42 inches in Gaithersburg, 2.22 inches in Potomac, 2.15 inches in Rockville, and 2.12 inches in Damascus. A spotter in Chevy Chase recorded nearly one half inch of rain in 5 minutes. The deluge caused Seneca Creek at Dawsonville to overflow its banks between 715 AM and 700 PM EDT. Bankful stage is 7.5 feet and the river crested at 7.95 feet around 9 AM. In Howard County, 2.60 inches was reported in Laurel and 2.20 inches fell in Columbia. In Anne Arundel County, heavy rain flooded Brock Bridge Road near Laurel, Fontron Drive in Selby on the Bay, King George Street in Annapolis, and Defense Highway near Parole. Rainfall totals included 2.16 inches at Davidsonville, 2.10 inches in Annapolis, and 1.76 inches at Baltimore-Washington International Airport. In Prince George's County, minor flooding was reported in Seat Pleasant and on Martin Luther King Highway. Rainfall totals include 2.22 inches in South Bowie and 2.00 inches in Greenbelt.

MDZ002>007-009>011-
013>014-016>018

Allegany - Washington - Frederick - Carroll - Northern Baltimore - Harford - Montgomery - Howard - Southern Baltimore - Prince Georges - Anne Arundel - Charles - St. Mary'S - Calvert

12	1200EST			0	0			Excessive Heat
13	1800EST							

High pressure in combination with southerly winds brought hot, hazy, and humid conditions to the Mid Atlantic region between June 12th and 13th. High temperatures soared to around 90 degrees and heat indices reached near 100 degrees through the period.

Carroll County

Northeast Portion	12	1845EST			0	0	5K		Thunderstorm Wind
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A microburst estimated between 60 and 70 MPH downed trees and power lines.



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MARYLAND, Central

Carroll County

4 SE Manchester	12	1850EST			0	0			Hail(0.75)
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Dime sized hail fell.

Baltimore County

North Portion	12	1900EST 1930EST			0	0	2K		Thunderstorm Wind
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Trees were downed.

Baltimore County

Countywide	12	1915EST			0	0			Lightning
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Lightning took out a communications tower at Spook Hill.

Thunderstorms with hail, gusty winds, and frequent lightning moved across north central Maryland during the early evening of the 12th. In Carroll County, a microburst estimated at 60 to 70 MPH downed trees and power lines in the Hampstead and Manchester areas. Some residents in this area were without power for two days. A spotter just southeast of Manchester reported marble to dime sized hail. In Baltimore County, high winds downed trees onto Route 30 near the Carroll County line. Trees and power lines were also downed near the Harford County and Pennsylvania borders. In addition, a lightning strike took out a communications tower at Spook Hill.

Calvert County

Countywide	15	1300EST 2100EST			0	0			Heavy Rain
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Charles County

East Portion	15	1300EST 2100EST			0	0			Heavy Rain
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Prince George'S County

Countywide	15	1300EST 2100EST			0	0			Heavy Rain
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St. Mary'S County

Countywide	15	1300EST 2100EST			0	0			Heavy Rain
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The remnants of Tropical Storm Allison brought periods of heavy rainfall to south central Maryland between the afternoon of the 15th and the evening of the 16th. In Prince George's County, 3.05 inches of rain was reported near Brandywine and 2.27 inches fell at Jug Bay Wetlands. In Calvert County, between 1.5 and 3.5 inches of rain was measured. Across Eastern Charles County, 1.5 to 3.7 inches of rain fell. A spotter between Waldorf and Hughesville estimated an inch of rain fell in only 20 minutes during one downpour which flooded the Route 231 and 5 intersection. In St. Mary's County, rainfall totals included 3.72 inches in Ridge, 2.45 inches in Hollywood, and 2.33 inches at Tall Timbers. Several streams and creeks reached bankful across the country, including the St. Mary's River.

Montgomery County

Gaithersburg	20	1900EST			0	0	2M		Lightning
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Eighty people were displaced after a lightning fire severely damaged an apartment complex. The event time was estimated.

Baltimore City (C)

Baltimore	20	1930EST 1945EST			0	0	10K		Thunderstorm Wind
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Power lines and 100 trees were downed.

Howard County

Ellicott City	20	1930EST			0	0	2K		Thunderstorm Wind
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Trees and power lines were downed.

Baltimore County

Catonsville Manor	20	1940EST			0	0			Lightning
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MARYLAND, Central

The roof of a house caught fire after lightning struck the building

Prince George'S County

Lanham	20	2100EST			0	0	0.50K		Thunderstorm Wind
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Two downed trees blocked Cipriano Road.

Scattered thunderstorms that produced damaging winds, heavy rainfall, hail, and frequent lightning moved through the area between 8 and 11 PM EDT on the 20th. In Montgomery County, lightning struck an apartment complex in Gaithersburg and started a fire that displaced 80 people. The complex sustained 2 million dollars in damage. Pea sized hail was reported in Rockville. In Howard County, trees and power lines were downed in Ellicott City. In Baltimore County, high winds downed power lines and 100 trees across the city of Baltimore. Over 15,000 city customers lost power during the storm. In Cantonsville, lightning struck a home and started the roof on fire. In Prince George's County, two trees were downed across Cipriano Road. Marble sized hail was reported in Lanham.

Frederick County

Frederick	21	1515EST			0	0	2K		Thunderstorm Wind
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Many trees were downed onto roads and wires.

Frederick County

Frederick	21	1529EST			0	0			Lightning
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A house was damaged by a lightning strike.

Prince George'S County

Countywide	21	1630EST 1800EST			0	0			Heavy Rain
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Indian Creek was swollen by heavy rains.

Frederick County

New Market	21	1700EST			0	0			Lightning
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Three homes and a garage were damaged by lightning in the New Market and Green Valley areas.

Frederick County

New Market	21	1700EST			0	0	2K		Thunderstorm Wind
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Many trees were downed onto roads and wires.

Prince George'S County

Laurel	21	1710EST			0	0	0.50K		Thunderstorm Wind
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A downed power pole blocked a road.

Prince George'S County

Laurel	21	1717EST			0	0			Hail(1.00)
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Nickel to quarter sized hail fell.

Howard County

West Friendship	21	1720EST			0	0	2K		Thunderstorm Wind
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Trees were downed onto roads.

Thunderstorms that produced damaging winds, frequent lightning, large hail, and heavy downpours moved across central Maryland between 400 PM and 830 PM EDT on the 21st. In Frederick County, homes were damaged by lightning in Frederick, Green Valley, and New Market. High winds downed trees onto wires and roadways in the Frederick, Ballenger Creek, New Market, and Green Valley areas. In Howard County, trees were downed onto roads in West Friendship. In Prince George's County, nickel to quarter sized hail was reported in Laurel. A power pole was downed across the intersection of Cherry Lane and Van Dusen Road just north of Laurel Lake. Heavy rainfall caused Indian Creek to overflow its banks. Route 1 at Indian Creek was flooded. A culvert leading to Laurel Lake was also overwhelmed with runoff and overflowed.



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					Killed	Injured	Property	Crops	

MARYLAND, Central

Washington County

Countywide	22	1500EST 1700EST			0	0			Heavy Rain
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Frederick County

Countywide	22	1515EST 1715EST			0	0			Heavy Rain
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Frederick County

Frederick	22	1525EST			0	0			Hail(0.88)
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Nickel sized hail fell.

Frederick County

5 NW Frederick	22	1610EST			0	0	0.50K		Thunderstorm Wind
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Trees were downed in the Putman Road area.

Allegany County

Southwest Portion	22	1630EST 1830EST			0	0			Flash Flood
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Flooding was reported in Rawlings and on Route 220.

Frederick County

Kemptown	22	1715EST			0	0	20K		Lightning
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A piano shop was damaged by a lightning fire.

Montgomery County

Countywide	22	1800EST 2359EST			0	0			Flash Flood
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Numerous roads were flooded and impassable and 3 swift water rescues were reported.

Montgomery County

Poolesville	22	1800EST			0	0	120K		Lightning
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A lightning fire damaged a home and one person was injured while trying to extinguish the flames.

Carroll County

Mt Airy	22	1900EST			0	0			Lightning
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Lightning started a fire at a garage which contained several vintage cars.

Harford County

East Portion	22	1900EST 2030EST			0	0			Heavy Rain
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Carroll County

Countywide	22	2030EST 2300EST			0	0			Flash Flood
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A few roads and low lying areas were flooded and rushing water downed trees on Gillis Falls Road.

Howard County

Countywide	22	2100EST 2359EST			0	0			Flash Flood
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Roads rapidly flooded and several motorists had to be rescued from their vehicles.

Carroll County

Westminster	23	0030EST			0	0	70K		Lightning
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A garage apartment was damaged by a lightning fire.

During the afternoon of the 22nd, numerous showers and thunderstorms developed just east of the Appalachian Mountains and moved very slowly east across northwest and north central Maryland through the pre-dawn hours of the 23rd. These storms contained very heavy rainfall, frequent lightning, and occasionally produced high winds and large hail. In Allegany County, the heaviest rain fell across the southwestern portion of the county. Several basements were flooded in Rawlings and parts of Route 220 were covered in water. Heavy rainfall downed a tree onto a power line in Frostburg. In Washington County, heavy downpours downed trees in the western portion of the county. In Frederick County, nickel sized hail was reported on Route 40 west of Frederick. In Frederick pea sized hail fell and a wind gust of 50 MPH was estimated. Trees were downed by high winds in the Putman Road area 5 miles north-northwest of Frederick. Pea sized hail was reported in Poolesville. A spotter in Braddock Heights



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MARYLAND, Central

reported 2 inches of rainfall in 20 minutes. At Point of Rocks, the railroad crossing on Route 28 was flooded. A three story mansion was struck by lightning and the resulting fire caused \$300,000 damage. Another lightning fire in Kempton caused \$20,000 damage. In Carroll County, some roads and low lying area were flooded in the Westminster and Melrose areas. Rainfall totals included 4.05 inches in Manchester and 2.41 inches in Westminster. Gunpowder River overflowed west of Linesboro. Rushing water downed power lines in the northern part of the county. Lightning started a garage on fire and \$70,000 damage was reported.

In Montgomery County, heavy rainfall caused roads to flood so quickly that three people had to be rescued from their cars. The hardest hit areas were in the vicinity of Olney, Wheaton, and Brighton Dam. Numerous roads had to be closed until the water subsided including Brighton Dam Road, Emory Lane, Muncaster Mill Road, Route 97, and West Willow Road. Route 97 was closed after the Hawlings River overflowed just north of Brookville. Rainfall totals included 5.00 inches in Brookville, 4.72 inches in Olney, 4.67 inches in Aspen Hill, 4.00 inches at Brighton Dam, 3.27 inches in Layhill, 2.68 inches in Potomac, and 2.46 inches in Bethesda. In Poolesville, a man was burned on his face as he tried to put out a lightning fire in a three story mansion. A garage with several vintage cars also caught fire after lightning hit the structure. In Howard County, high water closed Brighton Dam Road, Guilford Drive, Route 108, Route 216, Sheppards Lane, Green Bridge Road, Woodstream Drive, Old Frederick Road, Carrs Mill Road, Bethany Lane, Cedar Lane, Route 29, and Old Columbia Road. North Trotter Road was washed out by the Middle Patuxent River. Several people had to be rescued from their vehicles after roads quickly flooded. A mudslide closed Marriottsville Road in Ellicott City. Rainfall reports included an estimate of 5 inches just northeast of Clarkesville, 4.10 inches in Clarkesville, and 3.30 inches in Cooksville. In Harford County, heavy rain fell mainly across the far eastern portion of the county. Up to 7 inches of rainfall was reported at the Conowingo Dam on the Susquehanna River. Minor flooding was reported near Havre de Grace.

MDZ002>007-009>011-013>014-016>018

Allegany - Washington - Frederick - Carroll - Northern Baltimore - Harford - Montgomery - Howard - Southern Baltimore - Prince Georges - Anne Arundel - Charles - St. Mary'S - Calvert

27	1200EST								
30	1800EST			1	0				Excessive Heat

High pressure in combination with southerly winds brought hot, hazy, and humid conditions to the Mid Atlantic region between June 27th and 30th. High temperatures soared into the lower 90s and heat indices reached into the lower 100s through the period. Two deaths in Baltimore were related to the heat wave. On the 30th, a 34-year-old man died from a combination of heart problems, cocaine use, and exposure to the heat. On July 1st, when temperatures still reached near 90 degrees, a 51-year-old man died from heat exhaustion and heart problems. M51OT

Anne Arundel County Severna Park

29	1337EST								
				0	0	150K			Thunderstorm Wind

Four homes were damaged by downed trees.

A thunderstorm that produced damaging winds moved through northern Anne Arundel County during the afternoon of the 29th. The storm produced a brief downburst of winds in excess of 60 MPH over the Severn Heights and Belleview Estates area of Severna Park and Arnold. Four homes received a total of \$150,000 damage after large trees were downed onto them. One of the damaged homes was on Hillcrest Lane and the others were on Rio Lane. A 125-foot-tall tree was downed across Hillcrest Lane, blocking the only way out of the development. Other large trees and branches were felled across yards. Power outages plagued these communities for over 24 hours.

Allegany County Countywide

30	1605EST								
	1640EST			0	0	5K			Thunderstorm Wind

Numerous trees were downed.

Prince George'S County 2 SW Oxon Hill

30	1615EST								
				0	2				Lightning

Two men were struck by lightning while on a boat dock

Anne Arundel County Annapolis

30	1640EST								
				0	0				Thunderstorm Wind (G52)

A wind gust of 60 MPH was estimated.

Scattered thunderstorms with damaging wind and dangerous lightning moved across central Maryland between 4 and 6 PM EDT on the 30th. In Prince George's County, two men were hospitalized after being struck by lightning while on a private dock in Fort Washington. They had just come ashore and were securing their boat as the storm hit. Both men, ages 35 and 21, were knocked on their back by the bolt and were momentarily paralyzed. There were holes in their clothing where the electricity passed through.



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					Killed	Injured	Property	Crops	

MARYLAND, Central

They both had reddish streaks resembling sunburn stretching from their left armpit to their right leg. They were treated for 2nd degree burns at a local hospital. One of the victims had been struck by lightning once before in 8th grade while camping. In Anne Arundel County, numerous trees were downed by high wind. Poplar trees were downed by Annapolis Mall and power outages were reported. A wind gust of 60 MPH was estimated in Annapolis where pea sized hail fell. A wind gust of 45 MPH was reported in Rivera Beach where pea sized hail was also spotted. Thomas Point Lighthouse on the Chesapeake Bay recorded a wind gust of 44 MPH.

VIRGINIA, North

Albemarle County

Countywide

**05 1630EST
1800EST 0 0 Heavy Rain**

Route 20 was flooded by heavy downpours.

Nelson County

Countywide

**05 1630EST
1800EST 0 0 Heavy Rain**

A truck hydroplaned on a flooded roadway and landed in a swollen creek.

Waynesboro (C)

Waynesboro

**05 1630EST
1800EST 0 0 Heavy Rain**

Roadway flooding was reported.

Augusta County

Dooms

05 1700EST 0 0 Lightning

Lightning sparked a garage fire.

Augusta County

East Portion

05 1700EST 0 0 Lightning

A power transformer was damaged by lightning.

Waynesboro (C)

Waynesboro

05 1700EST 0 0 0.50K Thunderstorm Wind

A power line was downed.

Nelson County

Countywide

05 1745EST 0 0 0.50K Thunderstorm Wind

A tree was downed onto Wilson Road.

Nelson County

Faber

05 1745EST 0 0 100K Lightning

A lightning fire destroyed a home.

Albemarle County

Keene

**05 1750EST
1800EST 0 0 5K Thunderstorm Wind**

Trees were downed about 10 to 15 miles from Keene.

Thunderstorms with heavy rainfall, gusty winds, and frequent lightning moved through the southern Shenandoah Valley during the evening of the 5th. In Augusta County, a power transformer was damaged by lightning resulting in the loss of power to 4600 residents. Another bolt started a garage fire near Dooms. In Waynesboro, a felled tree branch downed a power line. Heavy downpours flooded city streets. In Albemarle County, high winds downed trees between 10 and 15 miles from Keene. Pea sized hail was reported near Charlottesville. Heavy downpours flooded low lying areas and Route 20 was covered in water. In Nelson County, high winds downed a tree on Wilson Road. Heavy downpours caused small creeks to overflow their banks briefly. A trucker who drove across a flooded roadway hydroplaned and his vehicle flipped into a creek. No injuries were reported. A home in the Faber area was hit by lightning and the ensuing fire burned the structure to the ground.



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VIRGINIA, North

Greene County

Southeast Portion	06	1300EST 1430EST			0	0			Heavy Rain
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Harrisonburg (C)

Harrisonburg	06	1413EST			0	0	2K		Thunderstorm Wind
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Power lines were downed.

Rockingham County

Port Republic	06	1415EST			0	0	2K		Thunderstorm Wind
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Power lines were downed.

Page County

5 E Shenandoah	06	1430EST			0	0	20K		Thunderstorm Wind
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A microburst estimated at 60-70 MPH damaged a home, carport, shed, car, and trees.

Scattered thunderstorms moved across the central Shenandoah Valley between 300 and 530 PM EDT on the 6th. One storm that moved across Rockingham and extreme southern Page County produced winds in excess of 55 MPH. In Rockingham County, power lines were downed in Harrisonburg and Port Republic. In Page County, a microburst of wind estimated between 60 and 70 MPH damaged several buildings in Jollett Hollow about 5 miles east of Shenandoah. The wind damage began at a small clearing adjacent to Jollett Road (Route 759) just south of Naked Creek Baptist Church. The damage path continued northeast onto private property where part of a roof was blown off a home and a car port was removed from its foundation. Pieces of the structure were thrown east about 100 yards onto the roof of a home. Several trees were uprooted and several outbuildings were destroyed nearby. In Greene County, heavy downpours caused low water crossings on Route 616 and 607 to flood in the southeast portion of the county.

VAZ025>031-036>042-050>057

Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Arlington - Stafford - Spotsylvania - King George

12	1200EST				0	0			Excessive Heat
13	1800EST								

High pressure in combination with southerly winds brought hot, hazy, and humid conditions to the Mid Atlantic region between June 12th and 13th. High temperatures soared to around 90 degrees and heat indices reached near 100 degrees through the period. At Arlington National Cemetery, eight 14-year-old tourists were overcome by the heat and humidity during the afternoon of the 12th. Two students had to be treated at an area hospital and six others were treated on-site.

Rockingham County

West Portion	13	1200EST 1430EST			0	0			Heavy Rain
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A thunderstorm with heavy rainfall remained over the western portion of Rockingham County between 100 and 330 PM. A bit of water covered area roads after the downpour. On Dundore Mountain 2.13 inches of rain fell in one hour and by the end of the storm 3.29 inches had accumulated. A total of 2.00 inches was reported at Briery Branch.

Frederick County

Southwest Portion	20	1615EST			0	0			Lightning
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A house caught fire after being hit by lightning.

Frederick County

Middletown	20	1620EST			0	0	0.50K		Thunderstorm Wind
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Electrical wires were downed onto Main Street.

Warren County

Front Royal	20	1640EST			0	0	1K		Thunderstorm Wind
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Several trees were downed.



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VIRGINIA, North

Madison County

2 N Madison	20	1945EST			0	0	0.50K		Thunderstorm Wind
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Two trees were downed onto Route 231.

Greene County

1 E Standardsville	20	2000EST			0	0			Hail(1.00)
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Quarter sized hail fell.

Albemarle County

4 SE Crozet	20	2020EST			0	1			Lightning
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A man talking on a cordless telephone in a basement was struck by lightning.

Albemarle County

West Portion	20	2100EST 2145EST			0	0	5K		Thunderstorm Wind
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Downed trees and utility lines blocked roads.

Charlottesville (C)

Charlottesville	20	2100EST 2145EST			0	0	5K		Thunderstorm Wind
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Trees and power lines were downed.

Scattered thunderstorms that produced damaging winds, hail, and frequent lightning moved through the area between 5 and 11 PM EDT on the 20th. In Frederick County, high winds downed electrical wires onto Main Street in Middletown. Between Middletown and Stephens City, a house on Meeting House Drive caught on fire after being struck by lightning. In Warren County, several trees were downed in Front Royal. A wind gust of 47 MPH was recorded at Catlett Mountain Road just southwest of town. In Madison County, two trees were downed across Route 231. In Greene County, quarter sized hail fell just east of Standardsville.

In Albemarle County, trees and power lines were downed onto roads from the city of Charlottesville westward. The Crozet, White Hall, Ivy Road, and Mount Eagle areas reported power outages. A lightning strike 8 miles west of Charlottesville struck a telephone wire outside a home, traveled inside the structure and struck a young man inside. The man was in his basement talking on a cordless phone when he was struck and was momentarily knocked unconscious. He woke up on the basement floor on his back and his damaged phone was found 5 feet away. The victim had trouble breathing when he regained consciousness and his ear hurt. He suffered short term memory loss up to 3 weeks after the accident. It is believed the victim was struck by the bolt as it passed through pipes in the basement floor.

Augusta County

Countywide	21	1830EST 2100EST			0	0			Heavy Rain
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Nelson County

Countywide	21	1830EST 2100EST			0	0			Heavy Rain
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A total of 2.99 inches of rain fell in one hour at Montebello Fish.

Page County

Countywide	21	1830EST 2100EST			0	0			Heavy Rain
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Shenandoah County

South Portion	21	1925EST 1935EST			0	0	10K		Thunderstorm Wind
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Numerous trees were downed.

Shenandoah County

Countywide	21	1930EST 2230EST			0	0			Flash Flood
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Several roads were flooded.



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

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

Rockingham County

2 N Grottoes	21	2000EST			0	0	20K		Thunderstorm Wind
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Most of the tin roof of a mobile home was ripped off and trees were downed.

Albemarle County

Northeast Portion	21	2030EST			0	0	5K		Thunderstorm Wind
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Utility lines were downed onto Proffit Road.

Warren County

2 SW Front Royal	21	2149EST			0	0	2K		Thunderstorm Wind
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Trees were downed and an aircraft was damaged.

Orange County

Countywide	21	2230EST			0	0			Flash Flood
	22	0100EST							

Roads were flooded in the town of Orange.

Thunderstorms that produced damaging winds and very heavy downpours moved across northern Virginia between 7 PM EDT on the 21st through 2 AM EDT on the 22nd. In Shenandoah County, numerous trees were downed in the southern portion of the county, including the community of Conicville. High winds ripped three quarters of a tin roof off a mobile home on Port Republic Road north of Grottoes. The remains of the tin roof were rolled into a ball and thrown 50 feet from the structure. A few trees were downed near the home but neighbors nearby did not report any damage. Heavy downpours flooded portions of Routes 611, 701, 724, 691, 672, 675, 1419, 667, 663, and 600. The Shenandoah River and Stoney Creek overflowed their banks in a few locations. A total of 3.04 inches of rain was reported at Jerome Gap. In Warren County, a wind gust of 53 MPH was recorded on Catlett Mountain Road. Trees were downed in the vicinity and a plane was damaged at the Warren County Airport nearby. In Page County, 3.67 inches of rain was reported at Rocky Branch, 2.14 inches was reported at Skyland, and 2.05 inches fell at Ida. In Augusta County, a total of 3.94 inches of rain fell at Montebello and 2.86 inches fell at Tom's Branch. In Nelson County, 2.87 inches of rain was recorded at Montebello Fish in 60 minutes. By the end of the storm the total grew to 3.70 inches. In Albemarle County, high winds downed utility lines on Proffit Road near Polo Grounds Road. Power outages were reported in Charlottesville. In Orange County, heavy rainfall flooded roads in the town of Orange. Between the 20th and 22nd, portions of the county received up to 4 inches of rain.

Winchester (C)

Winchester	22	1300EST 1530EST			0	0			Heavy Rain
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Frederick County

Gainesboro	22	1315EST			0	0			Hail(0.75)
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Dime sized hail was reported 6 miles northwest of Winchester.

Frederick County

5 S Gore	22	1315EST			0	0			Lightning
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An emergency services transmitter on North Mountain was knocked off line by lightning.

Frederick County

3 SW Hayfield	22	1330EST			0	0			Lightning
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Two homes were damaged by lightning.

Frederick County

Countywide	22	1430EST 1800EST			0	0	400K		Flash Flood
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Shawneeland's only access road was washed out, numerous roads were flooded, Back Creek and Hogue Creek overflowed, and the Camp Rock Enon area was evacuated.



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

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>									
Clarke County									
Countywide	22	1500EST 1700EST			0	0			Heavy Rain
Culpeper County									
West Portion	22	1530EST			0	0	2K		Thunderstorm Wind
Two trees were downed.									
Shenandoah County									
Countywide	22	1530EST 2300EST			0	0	600K		Flash Flood
Water rose rapidly on several waterways, a propane tank was washed away, a home was washed off its foundation, numerous roads and bridges were flooded or washed out, and 7 people were evacuated.									
Warren County									
Northwest Portion	22	1550EST 1700EST			0	0			Flash Flood
Morgan's Ford Road and Route 55 were closed by flood waters.									
Fauquier County									
Marshall	22	1605EST			0	0	1K		Thunderstorm Wind
Trees were downed.									
Nelson County									
Lovingston	22	1645EST 1800EST			0	0			Flash Flood
Roads near Nelson County High School were flooded.									
Loudoun County									
Countywide	22	1655EST 2359EST			0	0	200K		Flash Flood
Numerous roads and waterways flooded, a roof partially collapsed, and three swift water rescues were reported.									
Loudoun County									
Ashburn	22	1715EST			0	0			Hail(0.80)
Hail greater than dime size was reported.									
Loudoun County									
Arcola	22	1730EST			0	0	75K		Thunderstorm Wind
Hundreds of trees were uprooted or snapped, six houses were damaged, and four barns/machine sheds were severely damaged or destroyed.									
Loudoun County									
4 W Ashburn	22	1730EST			0	0	0.50K		Thunderstorm Wind
Power lines were downed onto Belmont Ridge Road.									
Rockingham County									
North Portion	22 23	1730EST 0100EST			0	0	500K		Flash Flood
The north fork of the Shenandoah River at Cootes Store rose 8 feet in 4 hours. Rapid flooding on Runion Creek and Fulks Run damaged a significant amount of private property, forced 20 evacuations, closed numerous roads, and trapped several people in their homes. Several trees, telephone poles, and power lines were downed along these waterways.									
Falls Church (C)									
Falls Church	22	1900EST 2000EST			0	0			Heavy Rain
Manassas (C)									
Manassas	22	1900EST 2100EST			0	0			Heavy Rain



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

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

Manassas (C)

Manassas	22	1909EST			0	0			Hail(1.00)
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Quarter sized hail was reported.

Fairfax County

Springfield	22	1930EST			0	0			Lightning
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Two homes caught fire after being hit by lightning

Prince William County

Countywide	22	2000EST 2100EST			0	0			Flash Flood
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Many roads were flooded.

Fairfax County

Countywide	22 23	2010EST 0230EST			0	0	25K		Flash Flood
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Two regional parks were damaged by flooding. About 100 campers were threatened by rising water and cars in the campground were damaged by flooding.

Arlington County

Arlington	22	2100EST 2200EST			0	0			Flash Flood
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Glebe Road was flooded.

During the afternoon of the 22nd, numerous showers and thunderstorms developed just east of the Appalachian Mountains. The storms trained to the North-Northeast along the mountain ridges before moving very slowly east through midnight. These storms contained very heavy rainfall, large hail, frequent lightning, and occasionally produced high winds. Widespread flooding was reported in several locations and the storms were responsible for over a million dollars in damage across Northern Virginia. In Frederick County, the worst flash flooding occurred across the western portion of the county. The hardest hit areas were in the Back Creek and Hogue Creek watersheds between Gore and Shawneeland where rainfall estimates were as high as 6 inches. Camp Rock Enon near Gore had to be evacuated when Back Creek started to flood the property and Back Creek Road. Highways closed or damaged by floodwaters included Route 50 between 615 and 614, 600, 613, 612, 704, 603, 679, 608, and 617. The only access road to the Shawneeland development which contains over 600 homes was washed out when Wolf Spring, Keckey, and Bucher Runs overflowed. Boulders weighing as much as 200 pounds and 36-inch culverts were washed more than a quarter mile downstream from the access road. Due to the extent of countywide damage and road closures, a state of emergency was declared. A total of 2.21 inches of rain was reported in Gore. Dime sized hail was reported 6 miles northwest of Winchester on Route 522. In addition, two homes in Shawneeland were damaged by lightning. An emergency communications tower on North Mountain was also struck and disabled by lightning.

In Shenandoah County, severe flooding was reported after as much as an estimated 6 inches of rain fell. Over half a million dollars in damage was reported to roads and bridges across the county. Numerous communities were affected by flooding including Mt. Jackson, Boyce, Orkney, Mt. Clifton, Rinkerton, Macanie, and Woodstock. Waterways including the Shenandoah River, Stoney Creek, Swover Creek, and Mill Creek rose rapidly during and after the heavy rainfall. A house, outbuilding, and shed along Mill Creek near Route 263 were washed away and another house had its front porch removed. Four unoccupied cars were also washed downstream. Several acres of crops along the river were flattened and topsoil was washed away. Seven people in the area were evacuated and several homes reported flood damage. A propane tank was washed 100 yards down Mill Creek west of Mt. Jackson. Roads closed or damaged by floodwaters included Senedo Road, Routes 611, 691, 698, 701, 716-724, 729, and Route 263 between Routes 42 and 725. A total of 3.60 inches of rain was reported in Strasburg.

In Rockingham County, numerous roads and bridges were either flooded or washed out by flash flooding. Hardest hit areas were along Fulks Run between the communities of Bergton and Broadway where 20 evacuations took place. The Hanging Rock, Chimney Rock, and the Runions Creek area were also affected by flooding. Damage reports included one destroyed mobile home, numerous washed out private bridges and roads, parked cars washed into the river, and the bridge on Route 259 across Runions Creek at the North Fork of the Shenandoah River being completely washed away. The pavement was removed on Runions Creek Road (Route 612) isolating over 600 residents. Twenty evacuations took place along Runions Creek. Other flooded or damaged roads included Routes 259 and 42. Rainfall reports included a radar estimate of 6 inches in the Fulks Run basin, 3.50 inches between Burgess and Highview and 2.95 inches at Cootes Store.

In Warren County, Morgan's Ford Road and Freezeland Road were flooded in the northwest portion of the county. A total of 3.77 inches was recorded in Nineveh. In Loudoun County, heavy rain flooded roads so quickly that three people had to be rescued by boat from their cars. Roads affected by flooding included Route 7, Route 663, Route 15 at Route 662, Route 50, Lawson Road, Old Ox Road (Route 606), Goshen Road, Forest Mill Road, Ashburn Road, Waxpool Road, and Belmont Ridge Road (Route 659). Several basements and low lying areas were also flooded. Limestone Branch, Broad Run, and Tuscarora Creek overflowed their



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

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

banks. The rapidly rising water downed trees and flooded property and roads along the waterways. A spotter in Ashburn reported 5.10 inches of rainfall in 90 minutes in addition to pea to dime sized hail. A spotter in Arcola estimated up to 8 inches of rain fell in two hours. Additional totals included 5.94 inches near Ashburn, 4.70 inches in Ashburn Farm, 4.04 inches in Leesburg, 3.78 inches at the National Weather Service in Sterling, 3.25 inches in Sterling Park, and 2.09 inches at Dulles International Airport. Heavy rainfall that collected on the roof of the Sheriff's office in Leesburg was so heavy it caused a portion of the roof to collapse. A 60 MPH wind gust was estimated in Ashburn Farm where a few trees were uprooted or snapped. Near Arcola, winds estimated between 60 and 70 MPH downed power lines and hundreds of trees, damaged 6 homes, and destroyed 4 barns/machine sheds. The hardest hit areas were along Evergreen Mills and Belmont Ridge Roads, but downed trees were found across an area stretching from Route 606 to 621.

In Fairfax County, water covered Route 7 between Reston Parkway and Route 193. Difficult Run overflowed its banks in the Great Falls area. Two parks located in the southwest portion of the county were flooded after Bull Run and Cub Run overflowed. A campground in Bull Run Regional Park on the Prince William county line was inundated with water from Cub Run. Over 70 campers evacuated when they saw the water rising but a group of 25 scouts that were asleep and unaware of the flooding were awakened after water seeped into their tents after midnight. The group moved to higher ground and had to wait a few hours until the water receded enough to make a rescue possible. Five to seven cars in the campground parking lot were damaged by flooding. Rainfall totals included 3.80 inches in Centreville, 3.45 inches in Reston, 3.25 inches in Clifton, 2.40 inches in Herndon, and 2.34 inches in Great Falls. A home in Springfield was damaged by a lightning fire. In Arlington County, Glebe Road was flooded in Arlington. In Falls Church, 2.23 inches of rain was recorded. In Prince William County, several roads were flooded. A total of 2.68 inches fell in Manassas where quarter sized hail was also reported. In Fauquier County, high winds downed trees in the Marshall area. A wind gust of 40 MPH was estimated in Opal. Pea sized hail fell near Warrenton. In Culpeper County, two trees were downed by high winds in the western portion of the county. In Nelson County, roads near Nelson County High School in Lovingston were flooded. Rainfall totals included 4.98 inches at Montebello Fish and 2.85 inches in Lovingston.

VAZ025>031-036>042-050>057

Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Arlington - Stafford - Spotsylvania - King George

27	1200EST	0	0			Excessive Heat
30	1800EST					

High pressure in combination with southerly winds brought hot, hazy, and humid conditions to the Mid Atlantic region between June 27th and 30th. High temperatures soared into the lower 90s and heat indices reached into the lower 100s through the period.

**Fauquier County
Countywide**

30	1440EST	0	0	10K	Thunderstorm Wind
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Trees were downed onto roads and a house.

**Loudoun County
Countywide**

30	1500EST 1630EST	0	0		Heavy Rain
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**Frederick County
Stephens City**

30	1525EST	0	0	0.50K	Thunderstorm Wind
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Two trees were downed.

Scattered thunderstorms with heavy rainfall and damaging winds moved across northern Virginia between 3 and 5 PM EDT on the 30th. In Loudoun County, a 43 MPH wind gust was reported at the Leesburg Airport. A small tree was downed in the northeast part of town. A spotter in Leesburg reported 2.5 inches of rainfall in less than an hour. In Frederick County, two 6 inch diameter trees were downed in Stephens City. In Fauquier County, trees were downed onto a home on Morgansburg Road. Several other trees were downed onto roads nearby. In Rappahannock County, a 43 MPH wind gust was reported in Castleton.

WEST VIRGINIA, East

**Berkeley County
Countywide**

07	0030EST 0300EST	0	0		Heavy Rain
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National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

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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WEST VIRGINIA, East

Hampshire County

Countywide	07	0030EST 0300EST			0	0			Heavy Rain
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Morgan County

Countywide	07	0030EST 0300EST			0	0			Heavy Rain
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Mineral County

Countywide	07	0230EST 0400EST			0	0			Flash Flood
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Several roads were closed by high water.

An area of showers and thunderstorms with very heavy downpours moved across the Eastern Panhandle during the early morning hours of the 7th. The heaviest rain fell across the Fort Ashby and Short Gap areas of Mineral County. A total of 3.41 inches was recorded in Pinto and Routes 46 and 28 were flooded. In Hampshire County, trees were downed across Route 956 and 200 near Purgitsville after saturated soil was unable to support the roots. In Berkeley County, 3.00 inches was measured in Martinsburg. A total of 2.70 inches fell at Inwood in Berkeley County and at Cacapon State Park in Morgan County. In Jefferson County, 2.40 inches was reported in Shepherdstown and 2.14 inches fell in Charles Town.

WVZ048>053-055

Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Hardy

12		1200EST			0	0			Excessive Heat
13		1800EST							

High pressure in combination with southerly winds brought hot, hazy, and humid conditions to the Mid Atlantic region between June 12th and 13th. High temperatures soared to around 90 degrees and heat indices reached near 100 degrees through the period.

Morgan County

Berkeley Spgs	12	1610EST			0	0			Hail(0.75)
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Dime sized hail fell.

Jefferson County

Northeast Portion	12	1750EST			0	0	0.50K		Thunderstorm Wind
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A tree was downed onto Route 230.

Thunderstorms with gusty winds, hail, and heavy downpours moved across the Eastern Panhandle during the late afternoon of the 12th. In Morgan County, dime sized hail was reported by a spotter in Berkeley Springs. In Jefferson County, high winds downed a tree onto Route 230.

Hardy County

Moorefield	20	1335EST 1450EST			0	0			Heavy Rain
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Hampshire County

Romney	20	1445EST			0	0			Hail(0.88)
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Nickel sized hail fell.

Berkeley County

Martinsburg	20	1545EST			0	0	25K		Thunderstorm Wind
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Trees and power lines were downed onto roads, cars, and a fence.

Scattered thunderstorms that produced damaging winds, hail, and heavy rainfall moved through the area between 2 and 5 PM on the 20th. In Hardy County, pea sized hail was reported. A total of 1.9 inches of rain fell in just over an hour in Moorfield. In Hampshire County, nickel sized hail was reported in Romney. In Berkeley County, winds in excess of 60 MPH downed or snapped trees up to 2 feet in diameter and felled power lines in Martinsburg. Twenty trees at War Memorial Park were either snapped at the base or lost several large limbs. Six more trees had to be removed because the storm made them unstable. Other downed trees and power lines were strewn across city driveways, lawns, roads, and a few homes. A partial list of damaged areas included Locust Avenue, Louisiana Avenue, Delaware Street, and Martin Street.



National Weather Service

Storm Data and Unusual Weather Phenomena



June 2001

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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WEST VIRGINIA, East

Hardy County

Countywide	21	1715EST 1845EST			0	0			Heavy Rain
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A thunderstorm with heavy downpours moved across Hardy County during the evening of the 21st. A total of 3.16 inches of rainfall was recorded at Devils Hole.

Grant County

Countywide	22	1530EST 1730EST			0	0			Heavy Rain
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Hampshire County

Countywide	22	1530EST 1730EST			0	0			Heavy Rain
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Pendleton County

Countywide	22	1530EST 1730EST			0	0			Heavy Rain
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Mineral County

Countywide	22	1545EST 1730EST			0	0			Flash Flood
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New Creek overflowed onto Route 972.

Berkeley County

Countywide	22	1600EST 1800EST			0	0			Heavy Rain
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Jefferson County

Countywide	22	1600EST 1800EST			0	0			Heavy Rain
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Morgan County

Countywide	22	1600EST 1800EST			0	0			Heavy Rain
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Hardy County

Countywide	22	1700EST 1900EST			0	0			Flash Flood
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Route 259 was closed by high water between Baker and Broadway.

During the afternoon of the 22nd, numerous showers and thunderstorms with heavy rainfall and frequent lightning developed just east of the Appalachian Mountains. These storms continued to affect the eastern panhandle through the evening hours and some roads, low water crossings, and waterways flooded. In Pendleton County, rainfall totals included 2.42 inches on Middle Mountain and 2.18 inches on Cow Knob Mountain. In Grant County, a total of 3.92 inches of rain fell at Cave Mountain. In Hardy County, high water closed Route 259 between Baker and Broadway. A total of 3.28 inches fell at Devils Hole. In Mineral County, New Creek overflowed onto Route 972. In Jefferson County, 2 inches of rain fell in one hour near Harpers Ferry. A total of 1.83 inches was recorded on Summit Point.

WVZ048>053-055

Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Hardy

27 30	1200EST 1800EST				0	0			Excessive Heat
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High pressure in combination with southerly winds brought hot, hazy, and humid conditions to the Mid Atlantic Region between June 27th and 30th. High temperatures soared into the lower 90s and heat indices reached into the lower 100s through the period.

Jefferson County

Charles Town	30	1624EST			0	0	0.50K		Thunderstorm Wind
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Trees were downed onto Huyett Road.

A thunderstorm with damaging winds moved across Jefferson County during the afternoon of the 30th. A tree was downed onto Huyett Road south of Charles Town.