



# National Weather Service

## Storm Data and Unusual Weather Phenomena



July 2002

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

### ATLANTIC NORTH

ANZ537 Lewisetta	Tidal Potomac Cobb Is Md To Smith Pt Va 09 1715EST A wind gust of 39 MPH was recorded.	0	0	Marine Tstm Wind (G35)
ANZ535 Rnld Reagan Natl Arpt	Tidal Potomac Key Bridge To Indian Hd Md 09 1913EST A wind gust of 39 MPH was recorded.	0	0	Marine Tstm Wind (G35)
ANZ531 7 W Riviera Beach	Chesapeake Bay Pooles Is To Sandy Pt Md 09 1914EST A wind gust of 48 MPH was recorded at BWI Airport.	0	0	Marine Tstm Wind (G42)
ANZ534 Patuxent River Nas	Chesapeake Bay Drum Pt To Smith Pt Va 09 1934EST A wind gust of 49 MPH was recorded.	0	0	Marine Tstm Wind (G43)
ANZ530 2 N Aberdeen Proving G	Chesapeake Bay N Of Pooles Is Md 09 2000EST Winds strong enough to down trees in Bel Air moved onto the bay.	0	0	Marine Tstm Wind (G35)

### DISTRICT OF COLUMBIA

DCZ001	District Of Columbia 02 1000EST 04 2000EST  High pressure remained stationary off the Delmarva coastline during the 1st week of July. This resulted in a prolonged period of hot and humid weather across the Mid Atlantic region. Between July 2nd and 4th, high temperatures rose into the lower to middle 90s and dew points reached into the lower 70s. This resulted in heat index values reaching 100 to 110 degrees during the afternoon. In addition, heat index value only dropped into the lower 80s overnight on the 4th and 5th, resulting in little relief for people without air conditioning. These conditions led to a number heat related illnesses, especially in people already suffering from pre-existing medical conditions. Thousands of people attended 4th of July activities on the Mall on July 4th. A handful of people on the grounds were overcome by heat during the day. On-site medical staff treated 150 people for heat exhaustion, including 83 people who were transported to area hospitals.	0	0	Excessive Heat
DCZ001	District Of Columbia 22 1000EST 23 2000EST  Another round of hot and humid weather occurred in the Washington D.C. metropolitan area on July 22nd and 23rd. Heat indexes rose to 103 degrees on the 22nd and 105 degrees on the 23rd.	0	0	Excessive Heat
DCZ001	District Of Columbia 28 1000EST 29 2000EST  A large area of high pressure sat off the Mid-Atlantic coast during the last week of July. This caused a warm and moist south wind to blow into the region for several days, resulting in another heat wave. The hottest days were the 28th and 29th of July when temperatures rose into the 90s and heat index values reached 100 to 110 degrees. Local power companies reported record electricity use on the 29th. City officials reported a number of heat-related medical emergency calls during the week.	0	0	Excessive Heat



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July 2002

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

**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**

<b>02</b>	<b>1000EST</b>			<b>21</b>	<b>0</b>				<b>Excessive Heat</b>
<b>04</b>	<b>2000EST</b>								

High pressure remained stationary off the Delmarva coastline during the 1st week of July. This resulted in a prolonged period of hot and humid weather across the Mid Atlantic region. Between July 2nd and 4th, high temperatures rose into the lower to middle 90s and dew points reached into the lower 70s. This resulted in heat index values reaching 100 to 110 degrees during the afternoon. In addition, heat index values only dropped into the middle 80s overnight in downtown Baltimore on the 4th and 5th, resulting in little relief for people without air conditioning. These conditions led to several heat related deaths and illnesses, especially in people already suffering from pre-existing medical conditions.

In Baltimore City, 12 people died in their non air-conditioned homes between July 3rd and 9th. On the 3rd, an 85 year-old man died from heat stroke. On the 4th, two men, age 65 and 72, and one woman who was 90 years old succumbed to the heat. On the 5th, three men, age 52, 56, and 86, and two women, age 53 and 67, died. On the 6th, an 80 year-old man and an 82 year-old woman died. On the 7th, a man of unknown age was found dead in his residence. On the 8th, an 88 year-old man was found dead in his home. On the 9th, an 83 year-old woman and a 53 year-old man died from exposure to the heat. Several other people were treated for heat illnesses in city hospitals during the period. In Baltimore County, a 78 year-old man died in his home on the 4th of July and a 48 year-old man was found dead at a construction site on the 10th. Also on the 4th, ten people were treated for heat exhaustion at a parade in Dundalk.

In Montgomery County, a 55 year-old man died on the 4th and a 74 year-old man died on the 8th. In Harford County, a 69 year-old woman was found dead in her non-air-conditioned Aberdeen home on the 5th. In Frederick County, a 23 year-old firefighter who was participating in a jogging exercise on the morning of the 3rd collapsed and went into cardiac arrest. By the time he arrived at the hospital, his body temperature had reached 107 degrees. He died of heat stroke a short time later. Twenty other people were treated at hospitals for heat illnesses countywide between July 2nd and 4th. In Washington County, a woman in her 60s was treated at a Hagerstown hospital for heat exhaustion. Her body temperature reached 105 degrees and she suffered from dementia. A 67 year-old man was overcome for a time by heat while changing a tire near Hancock. A firefighter was also treated for heat exhaustion on the 3rd after fighting a blaze in Hagerstown. M23OU, M55OT, M74PH, M78PH, M48OU, M85PH, M65PH, M72PH, F90PH, F67PH, M86PH, M56PH, F53PH, M52PH, M80PH, F82PH, M2PH, M88PH, F83PH, M53PH, F69P H

**Washington County**  
**2 NE Smithsburg**

<b>09</b>	<b>1722EST</b>			<b>0</b>	<b>0</b>				<b>Thunderstorm Wind (G53)<sup>M</sup></b>
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A wind gust of 61 MPH was recorded.

**Frederick County**  
**Frederick**

<b>09</b>	<b>1815EST</b>			<b>0</b>	<b>0</b>	<b>2K</b>			<b>Thunderstorm Wind</b>
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Trees were downed.

**Carroll County**  
**Winfield**

<b>09</b>	<b>1830EST</b>			<b>0</b>	<b>10</b>	<b>5K</b>			<b>Tstm Wind/Hail</b>
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Gusty winds and driving rain toppled several tents, resulting in injuries to 10 people

**Anne Arundel County**  
**North Portion**

<b>09</b>	<b>1909EST</b> <b>1940EST</b>			<b>0</b>	<b>0</b>	<b>50K</b>			<b>Thunderstorm Wind</b>
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Numerous trees and wires were downed.



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### MARYLAND, Central

#### **Baltimore County**

<b>Reisterstown to Dundalk</b>	<b>09</b>	<b>1910EST 1940EST</b>			<b>0</b>	<b>0</b>	<b>100K</b>		<b>Thunderstorm Wind</b>
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Hundreds of trees and some power lines were downed.

#### **Baltimore County**

<b>1 S Dundalk</b>	<b>09</b>	<b>1930EST</b>			<b>0</b>	<b>0</b>			<b>Thunderstorm Wind (G54)<sup>M</sup></b>
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Wind gusts of up to 62 MPH forced the closure of the Key Bridge (Interstate 695) for 20 minutes.

#### **Baltimore City (C)**

<b>Baltimore</b>	<b>09</b>	<b>1930EST</b>			<b>0</b>	<b>0</b>	<b>20K</b>		<b>Thunderstorm Wind</b>
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Fifty calls for downed trees were received by county officials

#### **Harford County**

<b>Joppa</b>	<b>09</b>	<b>1955EST</b>			<b>0</b>	<b>0</b>	<b>2K</b>		<b>Thunderstorm Wind</b>
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Trees were downed.

#### **Harford County**

<b>Bel Air</b>	<b>09</b>	<b>2000EST</b>			<b>0</b>	<b>0</b>	<b>2K</b>		<b>Thunderstorm Wind</b>
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Trees were downed.

Thunderstorms with heavy downpours and damaging winds moved through Central Maryland between 6 PM and 9:30 PM EDT on the 9th. In Washington County, a wind gust of 61 MPH was recorded just northeast of Smithsburg. Light tree damage was noted in the vicinity. In Frederick County, trees were downed in Frederick where a wind gust of 48 MPH was recorded. One fallen tree damaged four cars on North Market Street. The communities of Mount Airy, Thurmont, Braddock Heights, and Frederick reported power outages. In Carroll County, gusty winds and driving rain toppled several tents at a community festival in Winfield. Ten people were injured. Wind gusts were estimated between 40 and 50 MPH. In Anne Arundel County, numerous trees and electrical wires were downed in the central and northern portion of the county. Communities affected by the high winds included Maryland City, Glen Burnie, Waugh Chapel, Odenton, Orchard Beach, Annapolis, Linthicum, Marley Park, Harmon's Dorsey, Arnold, Harold Harbor, Riva, Lake Shore, and Crofton. A wind gust of 49 MPH was recorded at the Naval Academy in Annapolis and a gust of 48 MPH was measured at BWI Airport. In Baltimore County, hundreds of trees and some power lines were downed between Reisterstown and Dundalk. Officials in Baltimore City received 50 calls regarding downed trees. A wind gust of 48 MPH was recorded on the University of Maryland's Baltimore Campus. A wind gust of 62 MPH forced a 20 minute closure of the Key Bridge (Interstate 695) as the storms moved through. In the Baltimore metro area, around 70,000 customers lost power as a direct result of the storm. In Harford County, trees were downed in Joppa and Bel Air.

MDZ004>007-009>011-013>014-016>018

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

<b>22</b>	<b>1000EST</b>				<b>3</b>	<b>0</b>			<b>Excessive Heat</b>
<b>23</b>	<b>2000EST</b>								

Another round of hot and humid weather occurred across Central and Southern Maryland on July 22nd and 23rd. Heat indexes rose to between 98 and 105 degrees both days. Three people died from heat related illnesses during this time. In Montgomery County, a 47 year old man died on the 25th. In Baltimore County, a 50 year old man died on the 22nd. In the city of Baltimore, a 60 year old man was found dead in a junkyard on the 20th. Each victim had underlying health conditions which contributed to their death. Allegany Power, serving Central and Western Maryland, recorded record energy usage on the 22nd. M60OU, M50OT, M47OT

#### **Montgomery County**

<b>Countywide</b>	<b>23</b>	<b>1700EST 1800EST</b>			<b>0</b>	<b>0</b>			<b>Heavy Rain</b>
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### MARYLAND, Central

#### Montgomery County

Countywide	23	1745EST 1800EST			0	0	45K		Lightning
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Several lightning fires were reported.

Thunderstorms with very heavy downpours and frequent lightning moved through Central Maryland during the afternoon of the 23rd. In Montgomery County, the roofs of two homes were damaged by lightning fires in Rockville. An observer in Potomac recorded 2.3 inches of rain in one hour. Several trees in the city were also struck by lightning, including a handful that were downed onto power lines. In Gaithersburg, lightning started a shed on fire and the flames spread to an adjoining fence. Pea sized hail was also reported.

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**

28	1000EST				3	0			Excessive Heat
29	2000EST								

A large area of high pressure sat off the Mid-Atlantic coast during the last week of July. This caused a warm and moist south wind to blow into the region for several days, resulting in another heat wave. The hottest days were the 28th and 29th of July when temperatures rose into the 90s and heat index values reached 100 to 110 degrees. Power companies reported record electricity use on the 29th. Excessive heat was believed to have played a part in buckling train tracks that caused a passenger train derailment in the Montgomery County community of Kensington on the afternoon of the 29th. The derailment injured 97 people, including 6 who were critically injured.

At least three people died from heat stroke in Central Maryland during the heat wave. In Prince George's County, a 31 year-old man was found dead in his residence on the 30th. In Baltimore City, a 73 year-old man was found dead in his home on the 30th and an 81 year-old woman was found dead in her home on the 31st. Underlying health conditions contributed to these deaths. A 71 year-old man was also believed to have succumbed to the heat in his Baltimore home where a temperature of 96.5 degrees was measured on the 28th. Several other jurisdictions reported an increase of emergency room visits due to the heat. In Harford County, 12 elderly citizens were treated for heat illness. In Anne Arundel County, 7 people ranging from children to senior citizens were treated for exposure to the heat. In Baltimore County, at least 3 people were treated for heat cramps or heat exhaustion. M73PH, F81PH, M31PH

### VIRGINIA, North

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**

02	1000EST				0	0			Excessive Heat
04	2000EST								

High pressure remained stationary off the Delmarva coastline during the 1st week of July. This resulted in a prolonged period of hot and humid weather across the Mid Atlantic region. Between July 2nd and 4th, high temperatures rose into the lower to middle 90s and dew points reached into the lower 70s. This resulted in heat index values reaching 100 to 110 degrees during the afternoon.

#### Highland County

Mc Dowell	02	1700EST			0	0			Hail(1.75)
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Golfball sized hail covered the ground.

A thunderstorm with large hail moved through Highland County during the evening of the 2nd. Near McDowell, a sheriff reported golfball sized hail covering the road around 6 PM EDT.



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July 2002

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### VIRGINIA, North

#### Frederick County

<b>Gore</b>	<b>05</b>	<b>0143EST</b>			<b>0</b>	<b>0</b>	<b>1K</b>		<b>Thunderstorm Wind</b>
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Trees were downed onto Route 259.

A thunderstorm with high winds moved through Frederick County during the pre-dawn hours of the 5th. The storm downed trees onto Route 259 near Gore.

#### Frederick County

<b>Gore</b>	<b>09</b>	<b>1710EST</b>			<b>0</b>	<b>0</b>	<b>2K</b>		<b>Thunderstorm Wind</b>
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A power line was downed onto Emma Row Lane.

#### Frederick County

<b>Gainesboro</b>	<b>09</b>	<b>1715EST</b>			<b>0</b>	<b>0</b>	<b>0.50K</b>		<b>Thunderstorm Wind</b>
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A tree was downed onto Apple Pie Ridge Road.

#### Frederick County

<b>Clear Brook</b>	<b>09</b>	<b>1730EST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Thunderstorm Wind</b>
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Power lines were downed onto Welltown Road

#### Loudoun County

<b>West Portion</b>	<b>09</b>	<b>1805EST 1815EST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Thunderstorm Wind</b>
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Trees were downed.

#### Loudoun County

<b>Leesburg</b>	<b>09</b>	<b>1815EST</b>			<b>0</b>	<b>0</b>	<b>2K</b>		<b>Thunderstorm Wind</b>
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Power lines were downed.

#### Albemarle County

<b>6 SE Crozet</b>	<b>09</b>	<b>1850EST</b>			<b>0</b>	<b>0</b>	<b>1K</b>		<b>Thunderstorm Wind</b>
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Trees were downed at mile marker 113 on Interstate 64.

#### Augusta County

<b>Countywide</b>	<b>09</b>	<b>1900EST</b>			<b>0</b>	<b>0</b>	<b>5K</b>		<b>Thunderstorm Wind</b>
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Trees were downed.

Scattered thunderstorms moved through Northern and Central Virginia between 5 and 8 PM EDT on the 9th. The strongest storms produced wind gusts in excess of 55 MPH in Augusta, Albemarle, Loudoun, and Frederick counties. In Frederick County, a power line was downed onto Emma Row Lane in Gore. A tree was downed onto Apple Pie Ridge Road in Gainesboro. Power lines were downed onto Welltown Road in Clear Brook. In Loudoun County, trees were downed across the western portion of the county. Power lines and tree branches were downed in Leesburg. In Albemarle County, trees were downed at mile marker 113 on Interstate 64 about 6 miles southeast of Crozet. In Augusta County, scattered trees were downed countywide.

#### Fairfax County

<b>Chantilly</b>	<b>16</b>	<b>2350EST</b>			<b>0</b>	<b>0</b>	<b>100K</b>		<b>Lightning</b>
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A lightning fire severely damaged the attic and roof of a home.

An early morning thunderstorm produced a lightning bolt which struck a home in Chantilly around 12:50 AM EDT on the 17th. A Tulip Tree Court home sustained \$100,000 damage from a fire which was caused by lightning. Electrical wiring, the second story ceiling, and the roof of the home were damaged.

VAZ036>038-040>042-050>057

**Nelson - Albemarle - Greene - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Arlington - Stafford - Spotsylvania - King George**

<b>22</b>	<b>1000EST</b>				<b>0</b>	<b>0</b>		<b>Excessive Heat</b>
<b>23</b>	<b>2000EST</b>							

Another round of hot and humid weather occurred across Northern and Central Virginia on July 22nd and 23rd. Heat indexes rose to between 98 and 105 degrees both days.



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July 2002

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

#### Shenandoah County

Countywide	23	1428EST 1530EST			0	0			Flash Flood
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Water covered a road in Orkney Springs.

#### Shenandoah County

Forestville	23	1448EST			0	0	0.50K		Thunderstorm Wind
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A tree was downed onto South Middle Road.

#### Page County

Rileyville	23	1515EST			0	0			Hail(1.75)
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Golfball sized hail fell.

#### Page County

Rileyville	23	1515EST			0	0	2K		Thunderstorm Wind
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Several trees were downed near Route 340.

#### Winchester (C)

Winchester	23	1645EST 1730EST			0	0			Flash Flood
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Roads were underwater.

#### Albemarle County

Countywide	23	2000EST 2200EST			0	0			Flash Flood
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Several roads were closed by flooding.

Scattered thunderstorms moved through the Shenandoah Valley and the Central Piedmont during the afternoon and evening of the 23rd. In Shenandoah County, heavy downpours flooded a road in Orkney Springs. High winds downed a tree onto South Middle Road in Forestville. In Frederick County, roads were reported underwater in Winchester. A total of 2.1 inches of rain was recorded at Cross Junction. In Page County, a severe storm dumped golfball sized hail and blew down several trees near Route 340 in Rileyville. In Albemarle County, several roads were closed by rushing water, including a few surrounding the University of Virginia campus near Charlottesville.

#### Winchester (C)

Winchester	27	1230EST 1330EST			0	0			Heavy Rain
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#### Clarke County

Boyce	27	1325EST			0	0	5K		Thunderstorm Wind
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Twenty trees were downed.

#### Fauquier County

Broad Run	27	1340EST			0	0	1K		Thunderstorm Wind
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Trees were downed.

#### Fauquier County

Warrenton	27	1347EST			0	0	1K		Thunderstorm Wind
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Wires were downed.

#### Fairfax County

Centreville	27	1407EST			0	0	0.50K		Thunderstorm Wind
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Large tree limbs were downed.

Thunderstorms with damaging winds and heavy rainfall moved through Northern Virginia between 1 and 4 PM EDT on the 27th. In Frederick County, standing water covered roads in Winchester after a heavy downpour. Winds estimated between 40 and 45 MPH were also reported. In Clarke County, twenty trees were downed in Boyce. In Fauquier County, trees were downed in Broad Run and wires were downed in Warrenton. In Fairfax County, large tree branches were downed in Centreville.



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### VIRGINIA, North

**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**

	28	1000EST			0	0			<b>Excessive Heat</b>
	29	2000EST							

A large area of high pressure sat off the Mid-Atlantic coast during the last week of July. This caused a warm and moist south wind to blow into the region for several days, resulting in another heat wave. The hottest days were the 28th and 29th of July when temperatures rose into the 90s and heat index values reached 100 to 110 degrees. Power companies reported record electricity use on the 29th. Several jurisdictions reported an increase of emergency room visits due to the heat.

### WEST VIRGINIA, East

**WVZ048>053-055**      **Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Hardy**

	02	1000EST			0	0			<b>Excessive Heat</b>
	04	2000EST							

High pressure remained stationary off the Delmarva coastline during the 1st week of July. This resulted in a prolonged period of hot and humid weather across the Mid Atlantic region. Between July 2nd and 4th, high temperatures rose into the lower to middle 90s and dew points reached into the lower 70s. This resulted in heat index values reaching 100 to 110 degrees during the afternoon.

**Pendleton County**  
**Harper**

	02	1736EST			0	0			<b>Hail(1.00)</b>
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Quarter sized hail fell.

**Hardy County**  
**Moorefield**

	02	2105EST			0	0			<b>Hail(0.75)</b>
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Dime sized hail fell.

Thunderstorms with large hail moved through Pendleton and Hardy Counties on the evening of the 2nd. In Pendleton County, quarter sized hail was reported in Harper. In Hardy County, dime sized hail fell in Moorefield.

**Hampshire County**  
**Levels**

	09	1650EST			0	0	2K		<b>Thunderstorm Wind</b>
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A tree was downed onto a power line.

**Morgan County**  
**Central Portion**

	09	1654EST			0	0	1K		<b>Thunderstorm Wind</b>
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Tree branches were downed along Route 522.

**Jefferson County**  
**Shepherdstown**

	09	1746EST			0	0	5K		<b>Thunderstorm Wind</b>
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Trees were downed in town and along Route 230.

Thunderstorms with damaging winds moved through the Eastern Panhandle between 5 and 7 PM EDT. In Hampshire County, a tree was downed onto a power line in Levels. In Morgan County, tree branches were downed along Route 522. In Jefferson County, trees were downed in Shepherdstown and along Route 230.

**Hampshire County**  
**Levels**

	23	1618EST 1718EST			0	0			<b>Flash Flood</b>
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Two feet of water covered a road and small creeks overflowed their banks.

Thunderstorms with heavy rainfall moved across Hampshire County during the evening of the 23rd. In Hampshire County, small creeks and streams overflowed their banks after heavy downpours. Two feet of water covered a road in Levels.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



July 2002

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**

**Grant County**

Countywide	27	0730EST 1030EST			0	0			<b>Flash Flood</b>
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Several roads, creeks, and basements were flooded.

Showers and thunderstorm with very heavy rainfall moved through Grant County during the morning of the 27th. Widespread flooding was reported in and around Bayard. Several basements were flooded. Al Brown Road was closed by high water. Buffalo Creek overflowed its banks in several places and rose high enough to touch the bottom of the Route 90 bridge. Rainfall totals included 3.02 inches in Bayard and 2.35 inches in Petersburg.

**WVZ048>053-055**

<b>Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Hardy</b>									
	28	1000EST			0	0			<b>Excessive Heat</b>
	29	2000EST							

A large area of high pressure sat off the Mid-Atlantic coast during the last week of July. This caused a warm and moist south wind to blow into the region for several days, resulting in another heat wave. The hottest days were the 28th and 29th of July when temperatures rose into the 90s and heat index values reached 98 to 110 degrees.