

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ATLANTIC NORTH				
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY				
12.0 N RIVIERA BEACH	08/03/07 15:03 EST		0	Marine Thunderstorm Wind (MG 50 kt)
3.0 N RIVIERA BEACH	08/03/07 15:36 EST		0	39.2935N, 76.52W ~ 39.1634N, 76.52W
A Trained Spotter measured a 50 knots wind gust and half inch hail in Rosedale, MD. The buoy at Francis Scott Key Bridge measured a wind gust of 34 knots.				
Widely scattered showers and thunderstorms developed in a hot and humid air mass on the afternoon of August 3rd across northern Virginia and central Maryland. Some of these storms became severe as they approached the Tidal Potomac River and Maryland Chesapeake Bay, producing wind gusts in excess of 30 knots.				
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY				
9.0 NE PATUXENT RIVER NAS	08/05/07 15:15 EST		0	Marine Thunderstorm Wind (MG 47 kt)
	08/05/07 15:20 EST		0	38.372N, 76.3127W
A Trained Spotter measure a wind gust of 47 knots in Hollywood, MD.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY				
5.0 SE ANNAPOLIS	08/05/07 17:45 EST		0	Marine Thunderstorm Wind (MG 35 kt)
ANNAPOLIS	08/05/07 18:12 EST		0	38.9189N, 76.4343W ~ 38.97N, 76.5W
A buoy at Thomas Point Light measured a wind gust of 35 knots. An Automated Surface Observation at the US Naval Academy measured a wind gust of 34 knots.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY				
5.0 SE ANNAPOLIS	08/05/07 17:45 EST		0	Marine Thunderstorm Wind (MG 39 kt)
ANNAPOLIS	08/05/07 18:12 EST		0	38.9189N, 76.4343W ~ 38.97N, 76.5W
An Automated Surface Observation at the Patuxent River Naval Air Station measured a wind gust up to 39 knots. A buoy at Solomons Island measured a wind gust of 30 knots.				
A cold front stalled over the Mid Atlantic kept moisture and unsettled conditions across the region. Scattered showers and thunderstorms developed across central Maryland and northern Virginia. Some of these storms became severe as they approached the Tidal Potomac River and Maryland Chesapeake Bay, producing wind gusts in excess of 30 knots.				
CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY				
10.0 W RIVIERA BEACH	08/09/07 12:05 EST		0	Marine Thunderstorm Wind (MG 40 kt)
TOLCHESTER BEACH	08/09/07 12:42 EST		0	39.12N, 76.7063W ~ 39.17N, 76.18W
Automated Surface Observations and buoys reported several wind gusts between 30 and 40 knots from Pooles Island to Sandy Point.				
CHESAPEAKE BAY N OF POOLES IS MD COUNTY				
6.0 NW POOLES ISLAND	08/09/07 12:18 EST		0	Marine Thunderstorm Wind (MG 35 kt)
15.0 E HAVRE DE GRACE	08/09/07 13:00 EST		0	39.3913N, 76.1593W ~ 39.55N, 75.8188W
Automated Surface Observations at Gunpowder and Chesapeake City reported wind gusts up to 35 knots.				
TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY				
RNLD REAGAN NATL ARPT	08/09/07 12:35 EST		0	Marine Thunderstorm Wind (MG 35 kt)
7.0 E WDROW WLSN MEM BRDGE	08/09/07 12:44 EST		0	38.87N, 77.07W ~ 38.88N, 76.92W
Automated Surface Observations at Ronald Reagan National Airport and Andrews Air Force Based reported wind gusts in excess of 34 knots.				
CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY				
5.0 SE ANNAPOLIS	08/09/07 12:53 EST		0	Marine Thunderstorm Wind (MG 35 kt)
4.0 S STEVENSVILLE	08/09/07 12:54 EST		0	38.9189N, 76.4343W ~ 38.9222N, 76.32W
The buoy at Thomas Point light measured a wind gust of 35 knots. The buoy at Kent Island measured a wind gust of 30 knots.				
TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY				

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
QUANTICO	08/09/07 13:36 EST		0	Marine Thunderstorm Wind (EG 34 kt)
10.0 NNW QUANTICO	08/09/07 14:14 EST		0	38.37N, 75.73W ~ 38.5036N, 75.8006W

Automated Surface Observations at Quantico Marine Corps Airfield measured a wind gust of 30 knots. Prince William County Emergency Management reported trees down near Dale City, VA.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY

4.0 NNW QUANTICO	08/09/07 13:56 EST		0	Marine Hail (0.75 in)
	08/09/07 14:00 EST		0	38.4234N, 75.7582W

Penny size hail was reported in Dumphries, VA.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY

PINEY PT	08/09/07 21:06 EST		0	Marine Thunderstorm Wind (MG 41 kt)
	08/09/07 21:07 EST		0	38.15N, 76.52W

The buoy at Piney Point measured a wind gust of 41 knots.

A strong cold front combined with a humid and unstable air mass across the Mid Atlantic on August 9th. Scattered showers and thunderstorms developed across northern Virginia and central Maryland during the late morning and spread east into the early and mid afternoon. Many of these storms became severe, producing wind gusts in excess of 30 knots and large hail over the Tidal Potomac River and Maryland Chesapeake Bay.

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY

RNLD REAGAN NATL ARPT	08/16/07 08:45 EST		0	Marine Thunderstorm Wind (MG 35 kt)
7.0 E WDROW WLSON MEM BRDGE	08/16/07 08:53 EST		0	38.87N, 77.07W ~ 38.88N, 76.92W

An Automated Surface Observation at Ronald Reagan National Airport measured a wind gust of 35 knots. Andrews Air Force Base measured a wind gust of 32 knots.

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY

10.0 W RIVIERA BEACH	08/16/07 09:02 EST		0	Marine Thunderstorm Wind (EG 34 kt)
TOLCHESTER BEACH	08/16/07 09:30 EST		0	39.12N, 76.7063W ~ 39.17N, 76.18W

Several buoys and Automated Surface Observations reported wind gusts in excess of 30 knots.

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY

5.0 SE ANNAPOLIS	08/16/07 09:24 EST		0	Marine Thunderstorm Wind (MG 38 kt)
3.0 NNW ANNAPOLIS	08/16/07 09:25 EST		0	38.9189N, 76.4343W ~ 39.0101N, 76.5214W

A wind gust of 38 knots was reported by a Maryland Department of Transportation sensor at the intersection of US Route 50 and MD Route 2 north of Annapolis. A wind gust of 34 knots was reported at Thomas Point Light.

A very warm and humid air mass over the Mid Atlantic combined with an upper level disturbance during the mid morning hours of August 16th. Scattered showers and thunderstorms developed over north central Maryland and moved east towards the Baltimore metro. Some of these storms became severe, producing winds in excess of 30 knots across the Tidal Potomac River and Maryland Chesapeake Bay.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY

PINEY PT	08/20/07 02:00 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/20/07 02:00 EST		0	38.15N, 76.52W

A Buoy at Piney Point measured a wind gust near 34 knots.

A stalled frontal boundary over the region combined with a series of weak upper level disturbances to trigger scattered showers and thunderstorms during the early morning hours of August 20th. A storm that moved over the southern Tidal Potomac River became severe, producing wind gusts in excess of 30 knots.

TIDAL POTOMAC KEY BRIDGE TO INDIAN HD MD COUNTY

12.0 SW RNLD REAGAN NATL ARPT	08/25/07 17:55 EST		0	Marine Thunderstorm Wind (MG 38 kt)
RNLD REAGAN NATL ARPT	08/25/07 18:38 EST		0	38.7473N, 77.2274W ~ 38.87N, 77.07W

Automated Surface Observations at Ronald Reagan National Airport and Fort Belvoir reported wind gusts between 32 and 38 knots.

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
10.0 W RIVIERA BEACH	08/25/07 18:09 EST		0	Marine Thunderstorm Wind (MG 45 kt)
TOLCHESTER BEACH	08/25/07 18:48 EST		0	39.12N, 76.7063W ~ 39.17N, 76.18W

Automated Surface Observations and buoys reported wind gusts between 32 and 45 knots.

CHESAPEAKE BAY SANDY PT TO N BEACH MD COUNTY

ANNAPOLIS	08/25/07 19:26 EST		0	Marine Thunderstorm Wind (MG 48 kt)
5.0 ENE ANNAPOLIS	08/25/07 19:54 EST		0	38.97N, 76.5W ~ 38.9977N, 76.4141W

Automated Surface Observations and buoys reported wind gusts between 31 and 48 knots.

CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY

12.0 SE RIVIERA BEACH	08/25/07 19:38 EST		0	Marine Thunderstorm Wind (MG 43 kt)
TOLCHESTER BEACH	08/25/07 20:18 EST		0	38.9973N, 76.362W ~ 39.17N, 76.18W

Buoys reported wind gusts between 34 and 43 knots.

TIDAL POTOMAC INDIAN HD TO COBB IS MD COUNTY

QUANTICO	08/25/07 22:55 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/25/07 22:55 EST		0	38.37N, 75.73W

An Automated Surface Observation from Quantico Marine Corps Airfield measured wind gusts in excess of 30 knots.

TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY

PINEY PT	08/25/07 23:00 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/25/07 23:18 EST		0	38.15N, 76.52W

A buoy from Piney Point measured wind gusts in excess of 30 knots.

A hot and humid air mass developed over the Mid Atlantic ahead of a cold front on August 25th. Showers and thunderstorms developed across northern Virginia and central Maryland during the late afternoon and pushed east towards the Tidal Potomac River and Maryland Chesapeake Bay during the evening and overnight hours. Some of these storms became severe, producing wind gusts in excess of 30 knots.

DISTRICT OF COLUMBIA

(DC-Z001) DISTRICT OF COLUMBIA

	08/01/07 00:00 EST		0	Drought
	08/21/07 23:59 EST		0	

Washington DC experienced severe agricultural drought conditions from August 1st through August 21st. Using a combination of rainfall measurements and radar precipitation estimates, some locations averaged rainfall totals as high as 6 inches below normal. This led to some jurisdictions restricting water use. Damage estimates were not available. Several locations were included in primary natural disaster areas due to reductions in farm production. Sources of information included the National Drought Monitor.

(DC-Z001) DISTRICT OF COLUMBIA

	08/25/07 11:00 EST		0	Heat
	08/25/07 17:00 EST		0	

DISTRICT OF COLUMBIA COUNTY

BENNING	08/25/07 22:06 EST		2K	Thunderstorm Wind (EG 50 kt)
	08/25/07 22:10 EST		0	38.88N, 76.95W

Washington DC Emergency Management reported trees down on Central Avenue NE and Dubois Street SE.

A hot and humid air mass developed over the Mid Atlantic ahead of a strong cold front on August 25th. Temperatures climbed into the mid 90s by noon. These temperatures combined with high humidity created heat index values around 105. Showers and thunderstorms developed during the late afternoon as the cold front approached the region. Some of these storms became severe, producing damaging winds that downed trees and power lines.

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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MARYLAND, Central

(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z009) MONTGOMERY, (MD-Z010) HOWARD, (MD-Z014) ANNE ARUNDEL, (MD-Z018) CALVERT

08/01/07 00:00 EST	0	Drought
08/14/07 23:59 EST	0	

A portion of the Mid Atlantic hydrologic service area experienced severe agricultural drought conditions from mid July through August 14th. This area extended from Washington County south east across the southern Baltimore metro into Calvert County. Using a combination of rainfall measurements and radar precipitation estimates, some locations averaged rainfall totals as high as 6 inches below normal. This led to some jurisdictions restricting water use. Damage estimates were not available. Several locations were included in primary natural disaster areas due to reductions in farm production. Sources of information included the Maryland Farm Service Agency and the National Drought Monitor.

(MD-Z016) CHARLES, (MD-Z017) ST. MARY'S

08/01/07 00:00 EST	0	Drought
08/28/07 23:59 EST	0	

A portion of the Mid Atlantic hydrologic service area experienced severe agricultural drought conditions from mid July through August 28th. This area included Charles and St Mary's Counties in lower southern Maryland. Using a combination of rainfall measurements and radar precipitation estimates, some locations averaged rainfall totals as high as 6 inches below normal. This led to some jurisdictions restricting water use. Damage estimates were not available. Several locations were included in primary natural disaster areas due to reductions in farm production. Sources of information included the Maryland Farm Service Agency and the National Drought Monitor.

BALTIMORE COUNTY

WHITE MARSH	08/03/07 14:34 EST	0	Thunderstorm Wind (EG 50 kt)
	08/03/07 14:35 EST	0	39.38N, 76.43W

Baltimore County officials reported a tree down in White Marsh.

BALTIMORE COUNTY

ROSEDALE	08/03/07 15:03 EST	0	Thunderstorm Wind (MG 50 kt)
ESSEX	08/03/07 15:07 EST	0	39.33N, 76.52W ~ 39.32N, 76.48W

A Trained Spotter measured a wind gust of 58 mph, as well as half inch hail, in Rosedale. A Baltimore County official reported a tree down on Crafton Road in Essex.

Widely scattered showers and thunderstorms developed in a hot and humid air mass on the afternoon of August 3rd. A storm in Baltimore County became severe, downing trees and producing small hail.

PRINCE GEORGE'S COUNTY

LARGO	08/05/07 17:30 EST	5K	Thunderstorm Wind (EG 50 kt)
	08/05/07 17:35 EST	0	38.9N, 76.83W

Prince Georges Emergency Management had multiple reports of downed trees and power lines in central Prince Georges County near Largo, MD.

A cold front stalled over the Mid Atlantic kept moisture and unsettled conditions across the region. Scattered showers and thunderstorms developed across central Maryland, including near the Baltimore and Washington DC suburbs. A storm in Prince Georges County became severe, downing several trees and power lines near Largo.

(MD-Z501) EXTREME WESTERN ALLEGANY, (MD-Z502) CENTRAL AND EASTERN ALLEGANY

08/07/07 01:00 EST	0	Dense Fog
08/07/07 08:00 EST	0	

A warm and humid air mass over the region allowed dense fog to develop along the Allegheny Front in western Maryland. Automated Surface Observations reported dense fog, reducing visibilities to a quarter mile or less during the early morning hours of August 7th.

WASHINGTON COUNTY

HALFWAY	08/09/07 10:30 EST	1K	Thunderstorm Wind (EG 50 kt)
	08/09/07 10:30 EST	0	39.62N, 77.73W

Washington County Emergency Management reported a power line down in Halfway, MD.

FREDERICK COUNTY

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FREDERICK	08/09/07 11:00 EST		0	Thunderstorm Wind (EG 50 kt)
	08/09/07 11:00 EST		0	39.42N, 77.42W

A newspaper reported trees down on West Second Street near Upper College Terrace in downtown Frederick, MD.

CARROLL COUNTY

NEW WINDSOR	08/09/07 11:07 EST		5K	Thunderstorm Wind (EG 50 kt)
WESTMINSTER	08/09/07 11:10 EST		0	39.55N, 77.1W ~ 39.58N, 77W

Carroll County Emergency Management reported trees down on Clear Ridge Road in New Windsor. Law Enforcement reported trees and power lines down on Little Town Pike and Gorsuch Road in Westminster.

ST. MARY'S COUNTY

MECHANICSVILLE	08/09/07 14:04 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/09/07 14:04 EST		0	38.43N, 76.73W

St. Mary's County Emergency Management reported trees down on Baptist Church Road in Mechanicsville, MD.

FREDERICK COUNTY

1.0 W ROCKY RIDGE	08/09/07 17:55 EST		2K	Thunderstorm Wind (EG 50 kt)
	08/09/07 17:55 EST		0	39.6N, 77.3388W

The Fire and Rescue Department reported trees down on power lines on Route 77 and Old Mill Road west of Rocky Ridge, MD.

CARROLL COUNTY

WESTMINSTER	08/09/07 18:10 EST		0	Thunderstorm Wind (EG 50 kt)
	08/09/07 18:10 EST		0	39.58N, 77W

The local Fire and Rescue reported trees and wires down in Westminster, MD.

A strong cold front combined with a humid and unstable air mass across the Mid Atlantic on August 9th. Scattered showers and thunderstorms developed across western and central Maryland during the late morning and spread east towards the Baltimore metro and into lower southern Maryland during the early and mid afternoon. Several of these storms became severe, producing large hail and damaging winds that downed trees and power lines.

FREDERICK COUNTY

1.0 N PARK MILLS	08/16/07 08:05 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/16/07 08:05 EST		0	39.3145N, 77.42W

Law Enforcement reported trees down on Park Mills Road.

A very warm and humid air mass over the Mid Atlantic combined with an upper level disturbance during the mid morning hours of August 16th. Scattered showers and thunderstorms developed over north central Maryland and moved east towards the Baltimore metro. One of these storms became severe, downing trees in Frederick County.

(MD-Z004) FREDERICK, (MD-Z005) CARROLL, (MD-Z006) NORTHERN BALTIMORE, (MD-Z009) MONTGOMERY, (MD-Z010) HOWARD, (MD-Z011) SOUTHERN BALTIMORE / BALTIMORE (C), (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL

	08/25/07 11:00 EST		0	Heat
	08/25/07 17:00 EST		0	

FREDERICK COUNTY

BRUNSWICK	08/25/07 16:18 EST		15K	Thunderstorm Wind (EG 50 kt)
	08/25/07 16:20 EST		0	39.32N, 77.63W

Frederick County Emergency Management reported trees down in Brunswick. Local newspapers reported numerous trees down, including trees down on fences, power lines and even on vehicles. Nearly 3,000 households were left without power.

WASHINGTON COUNTY

SMITHSBURG	08/25/07 16:32 EST		0	Hail (0.75 in)
	08/25/07 16:32 EST		0	39.65N, 77.58W

A Trained Spotter reported penny size hail at the intersection of Routes 77 and 64 near Smithsburg, MD.

WASHINGTON COUNTY

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WEVERTON	08/25/07 16:38 EST		0	Lightning
	08/25/07 16:38 EST	1	0	39.33N, 77.68W

Washington County Emergency Management and local newspapers reported that a woman was injured when struck by lightning while tubing on the C&O Canal in southern Washington County. A 27 year old woman was struck by lightning while in the water near the intersection of Keep Tryst Road at Weverton Road.

MONTGOMERY COUNTY

DAMASCUS	08/25/07 17:00 EST		0	Thunderstorm Wind (EG 50 kt)
	08/25/07 17:00 EST		0	39.28N, 77.2W

A Cooperative Observer reported a tree measuring two feet in diameter down in Damascus, MD.

CARROLL COUNTY

MT AIRY	08/25/07 17:15 EST		5K	Thunderstorm Wind (EG 50 kt)
WINFIELD	08/25/07 17:25 EST		0	39.38N, 77.15W ~ 39.45N, 77.05W

Carroll County Emergency Management reported trees down throughout the county, including between Mount Airy and Winfield.

HOWARD COUNTY

SAVAGE	08/25/07 17:49 EST		5K	Thunderstorm Wind (EG 50 kt)
	08/25/07 17:55 EST		0	39.13N, 76.83W

Emergency Management reports trees down across the county.

BALTIMORE COUNTY

REISTERSTOWN	08/25/07 18:25 EST		2K	Thunderstorm Wind (EG 50 kt)
	08/25/07 18:30 EST		0	39.47N, 76.83W

Baltimore County Emergency Management reported power lines down in Reisterstown, MD.

BALTIMORE CITY (C) COUNTY

BALTIMORE	08/25/07 18:35 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/25/07 18:35 EST		0	39.3N, 76.62W

Baltimore Emergency Management reported trees down in the City of Baltimore.

ANNE ARUNDEL COUNTY

PASADENA	08/25/07 19:37 EST		0	Thunderstorm Wind (EG 50 kt)
	08/25/07 19:40 EST		0	39.1N, 76.57W

A Trained Spotter reported wind damage near Edwin Raynor Road and Mountain Road in Pasadena, MD.

A hot and humid air mass developed over the Mid Atlantic ahead of a strong cold front on August 25th. Temperatures climbed into the mid 90s by noon. These temperatures combined with high humidity created heat index values around 105. Showers and thunderstorms developed during the late afternoon as the cold front approached the region. Some of these storms became severe, producing large hail and damaging winds that downed trees and power lines.

VIRGINIA, North

(VA-Z028) FREDERICK / WINCHESTER, (VA-Z030) WARREN, (VA-Z031) CLARKE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z042) LOUDOUN, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM / MANASSAS, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON / ALEXANDRIA / FALLS CHURCH

	08/01/07 00:00 EST		0	Drought
	08/21/07 23:59 EST		0	

A portion of the Mid Atlantic hydrologic service area experienced severe agricultural drought conditions from mid July through August 21st. This area included Frederick and Clarke Counties south to Orange County and east to the Washington DC metro area. Using a combination of rainfall measurements and radar precipitation estimates, some locations averaged rainfall totals as high as 6 inches below normal. This led to some jurisdictions restricting water use. Damage estimates were not available. Several locations were included in primary natural disaster areas due to reductions in farm production. Sources of information included the Virginia Farm Service Agency and the National Drought Monitor.

(VA-Z041) FAUQUIER, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA / FREDERICKSBURG, (VA-Z057) KING GEORGE

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(VA-Z041) FAUQUIER, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA / FREDERICKSBURG, (VA-Z057) KING GEORGE				
	08/01/07 00:00 EST		0	Drought
	08/28/07 23:59 EST		0	

A portion of the Mid Atlantic hydrologic service area experienced severe agricultural drought conditions from mid July through August 28th. This area included Fauquier, King George, Spotsylvania and Stafford Counties in east central Virginia. Using a combination of rainfall measurements and radar precipitation estimates, some locations averaged rainfall totals as high as 6 inches below normal. This led to some jurisdictions restricting water use. Damage estimates were not available. Several locations were included in primary natural disaster areas due to reductions in farm production. Sources of information included the Virginia Farm Service Agency and the National Drought Monitor.

PRINCE WILLIAM COUNTY

GAINESVILLE	08/03/07 15:00 EST		0	Hail (1.50 in)
	08/03/07 15:01 EST		0	38.8N, 77.6W

Ping Pong ball size hail was reported in Gainesville, VA.

PRINCE WILLIAM COUNTY

GAINESVILLE	08/03/07 15:00 EST		0	Thunderstorm Wind (EG 50 kt)
	08/03/07 15:05 EST		0	38.8N, 77.6W

Downed trees were reported along Route 29 to Catharpin Road in Gainesville.

Widely scattered showers and thunderstorms developed in a hot and humid air mass on the afternoon of August 3rd. A storm in Prince William County became severe, downing trees and producing large hail in Gainesville.

PAGE COUNTY

LURAY	08/09/07 12:52 EST		0	Thunderstorm Wind (EG 50 kt)
	08/09/07 12:52 EST		0	38.67N, 78.47W

A Trained Spotter reported a tree down at Hawksbill Road and Route 211 in Luray.

PRINCE WILLIAM COUNTY

INDEPENDENT HILL	08/09/07 13:35 EST		3K	Thunderstorm Wind (EG 50 kt)
DALE CITY	08/09/07 13:40 EST		0	38.63N, 77.43W ~ 38.62N, 77.3W

The local Fire and Rescue Department reported trees and power lines down near along Route 234 from Independent Hill to Dale City.

PRINCE WILLIAM COUNTY

DUMFRIES	08/09/07 13:56 EST		0	Hail (0.75 in)
	08/09/07 13:56 EST		0	38.57N, 77.33W

Penny size hail was reported in Dumfries, VA.

FREDERICKSBURG (C) COUNTY

FREDERICKSBURG	08/09/07 15:30 EST		0	Hail (0.88 in)
	08/09/07 15:30 EST		0	38.3N, 77.47W

An Amateur Radio Operator reported dime to nickel size hail at Route 1 and Route 3 in the City of Fredericksburg.

ALBEMARLE COUNTY

CISMONT	08/09/07 16:15 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/09/07 16:15 EST		0	38.07N, 78.32W

An Albemarle County Official reported trees down at Gordonsville Road and Cismont Road in Cismont, VA.

A strong cold front combined with a humid and unstable air mass across the Mid Atlantic on August 9th. Scattered showers and thunderstorms developed across western and northern Virginia during the late morning and spread east towards the Washington DC metro and into the northern Piedmont region during the early and mid afternoon. Several of these storms became severe, producing large hail and damaging winds that downed trees and power lines.

PAGE COUNTY

1.0 E SHENANDOAH	08/16/07 15:40 EST		30K	Thunderstorm Wind (EG 50 kt)
2.0 SW JOLLETT	08/16/07 15:50 EST		0	38.48N, 78.6115W ~ 38.4496N, 78.5561W

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>Law Enforcement reported several trees down in the southern part of Page County. A tree was reported down on a vehicle on Fleesburg Road. Emergency Management reported numerous trees and power lines down along Naked Creek near Furnace. There were also reports of trees down on a few houses.</p>				
ROCKINGHAM COUNTY				
ELKTON	08/16/07 15:54 EST		5K	Thunderstorm Wind (EG 50 kt)
PORT REPUBLIC	08/16/07 15:55 EST		0	38.42N, 78.62W ~ 38.3N, 78.82W
<p>A Trained Spotter reported large trees down in Elkton. Law Enforcement reported power lines down in Port Republic.</p>				
ALBEMARLE COUNTY				
2.0 E EARLYSVILLE	08/16/07 16:19 EST		0	Thunderstorm Wind (EG 50 kt)
	08/16/07 16:20 EST		0	38.17N, 78.4432W
<p>Law Enforcement reported trees down east of Earlysville, VA.</p>				
MADISON COUNTY				
AYLOR	08/16/07 16:30 EST		0	Thunderstorm Wind (EG 50 kt)
	08/16/07 16:30 EST		0	38.43N, 78.3W
<p>Law Enforcement reported a tree down in Aylor, VA.</p>				
GREENE COUNTY				
RUCKERSVILLE	08/16/07 16:55 EST		5K	Thunderstorm Wind (EG 50 kt)
	08/16/07 16:59 EST		0	38.23N, 78.37W
<p>Law Enforcement reported numerous trees and power lines down along Route 29 in Ruckersville, VA.</p>				
ALBEMARLE COUNTY				
FREE UNION	08/16/07 17:00 EST		2K	Thunderstorm Wind (EG 50 kt)
1.0 N STONY PT	08/16/07 17:05 EST		0	38.17N, 78.57W ~ 38.1345N, 78.38W
<p>Law Enforcement reported numerous trees down from Free Union to north of Stony Point.</p>				
ORANGE COUNTY				
EHEART	08/16/07 17:05 EST		2K	Thunderstorm Wind (EG 50 kt)
	08/16/07 17:15 EST		0	38.2N, 78.32W
<p>Law Enforcement reported several trees down across western parts of Orange County.</p>				
GREENE COUNTY				
2.0 SW RUCKERSVILLE	08/16/07 17:20 EST		0	Thunderstorm Wind (EG 50 kt)
	08/16/07 17:23 EST		0	38.2096N, 78.396W
<p>Law Enforcement reported trees down southwest of Ruckersville, VA.</p>				
ALBEMARLE COUNTY				
2.0 E ADVANCE MILLS	08/16/07 17:25 EST		0	Thunderstorm Wind (EG 50 kt)
	08/16/07 17:25 EST		0	38.18N, 78.4132W
<p>Law Enforcement reported trees down along US Route 29 east of Advance Mills, VA.</p>				
ROCKINGHAM COUNTY				
CHERRY GROVE	08/16/07 21:30 EST		5K	Thunderstorm Wind (EG 50 kt)
	08/16/07 21:40 EST		0	38.58N, 78.87W
<p>Rockingham County Emergency Management reported trees and power lines down throughout the county.</p>				
ROCKINGHAM COUNTY				
ELKTON	08/16/07 21:35 EST		0	Hail (0.75 in)
	08/16/07 21:35 EST		0	38.42N, 78.62W
<p>A Trained Spotter reported penny size hail in Elkton, VA.</p>				

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SHENANDOAH COUNTY				
2.0 S SOUTH JACKSON	08/16/07 21:45 EST		1K	Thunderstorm Wind (EG 50 kt) 38.7011N, 78.65W
	08/16/07 21:48 EST		0	
Emergency Management reported trees down south of Mount Jackson, VA.				
PAGE COUNTY				
LURAY	08/16/07 22:00 EST		5K	Thunderstorm Wind (EG 50 kt) 38.67N, 78.47W
	08/16/07 22:10 EST		0	
Page County Emergency Management reported trees and power lines down throughout the county.				
MADISON COUNTY				
4.9 W NETHERS	08/16/07 22:02 EST		0	Thunderstorm Wind (EG 50 kt) 38.58N, 78.37W
	08/16/07 22:02 EST		0	
Madison County Emergency Management reported a tree down northeast of Big Meadows, VA.				
RAPPAHANNOCK COUNTY				
SPERRYVILLE	08/16/07 22:10 EST		3K	Thunderstorm Wind (EG 50 kt) 38.67N, 78.25W
	08/16/07 22:15 EST		0	
Law Enforcement reported trees down throughout the county.				
CULPEPER COUNTY				
JEFFERSONTON	08/16/07 22:39 EST		2K	Thunderstorm Wind (EG 50 kt) 38.63N, 77.9W
	08/16/07 22:45 EST		0	
Emergency Management reported numerous trees down in Jeffersonton, VA.				
FAUQUIER COUNTY				
WARRENTON	08/16/07 22:45 EST		0	Thunderstorm Wind (EG 50 kt) 38.72N, 77.78W
	08/16/07 22:50 EST		0	
Fauquier County Emergency Management reported trees down in Warrenton, VA.				
A cold front moving through the region during the late afternoon and evening on August 16th combined with a moist and unstable air mass to produce numerous showers and thunderstorms across central and northern Virginia. Many of these storms became severe, producing large hail and damaging winds that downed trees and power lines.				
NELSON COUNTY				
TYE RIVER	08/21/07 13:45 EST		0	Hail (1.75 in) 37.65N, 78.97W
	08/21/07 13:45 EST		0	
Nelson County Emergency Management reported golf ball size hail southwest of Tye River, VA.				
NELSON COUNTY				
2.0 ESE SHIPMAN	08/21/07 15:31 EST		1K	Thunderstorm Wind (EG 50 kt) 37.7089N, 78.8162W
	08/21/07 15:35 EST		0	
Nelson County Emergency Management reported trees down on Eagle Mountain Drive and Route 56 near Shipman, VA.				
A stalled frontal boundary over the region combined with a series of weak upper level disturbances to trigger widely scattered showers and thunderstorms across the central foothills of Virginia during the afternoon of August 21st. Two storms over Nelson County became severe, producing damaging winds and large hail.				
ROCKINGHAM COUNTY				
HINTON	08/24/07 14:00 EST		5K	Thunderstorm Wind (EG 50 kt) 38.47N, 78.97W
	08/24/07 14:15 EST		0	
A Trained Spotter reported power lines down in Hinton, VA. A shed was blown onto the road at Route 33 and Muddy Creek Road.				
STAUNTON (C) COUNTY				

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
STAUNTON	08/24/07 15:20 EST		0	Hail (0.75 in)
	08/24/07 15:20 EST		0	38.15N, 79.07W

Law Enforcement reported penny size hail along North Augusta Street in the City of Staunton.

AUGUSTA COUNTY

3.0 NW WAYNESBORO ARPT	08/24/07 15:40 EST		0	Hail (0.75 in)
	08/24/07 15:40 EST		0	38.1107N, 78.969W

A Trained Spotter reported penny size hail northwest of Waynesboro.

ALBEMARLE COUNTY

IVY	08/24/07 16:23 EST		0	Thunderstorm Wind (EG 50 kt)
	08/24/07 16:28 EST		0	38.05N, 78.6W ~ 38.07N, 78.7W

Law Enforcement reported numerous trees and power lines down between Crozet and Ivy.

A weak front extending from southwest Pennsylvania through eastern West Virginia and into central North Carolina lifted north as a warm front to bring a hot and humid air mass to the region on August 24th. As this front moved north, scattered showers and thunderstorms developed across the Shenandoah Valley of central Virginia. Several of these storms became severe, producing damaging winds and large hail across Rockingham, Augusta and Albemarle Counties.

(VA-Z025) AUGUSTA / STAUNTON / WAYNESBORO, (VA-Z042) LOUDOUN, (VA-Z050) ORANGE, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM / MANASSAS, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON / ALEXANDRIA / FALLS CHURCH, (VA-Z055) STAFFORD, (VA-Z056) SPOTSYLVANIA / FREDERICKSBURG

	08/25/07 11:00 EST		0	Heat
	08/25/07 17:00 EST		0	

SHENANDOAH COUNTY

STRASBURG	08/25/07 13:40 EST		0	Thunderstorm Wind (EG 50 kt)
	08/25/07 13:45 EST		0	38.98N, 78.37W

Shenandoah County Emergency Management reported trees down in Strasburg, VA.

ROCKINGHAM COUNTY

DALE ENTERPRISE	08/25/07 14:49 EST		0	Hail (1.75 in)
	08/25/07 14:50 EST		0	38.45N, 78.93W

A Cooperative Observer reported golf ball size hail in Dale Enterprise, VA.

WINCHESTER (C) COUNTY

WINCHESTER	08/25/07 15:01 EST		2K	Thunderstorm Wind (EG 50 kt)
	08/25/07 15:05 EST		0	39.13N, 78.17W

The Fire and Rescue Department reported trees down on power lines along Millwood Avenue in the City of Winchester.

FREDERICK COUNTY

STEPHENS CITY	08/25/07 15:08 EST		0	Hail (0.75 in)
	08/25/07 15:08 EST		0	39.08N, 78.22W

A Trained Spotter reported penny size hail in Stephens City, VA. Frederick County Emergency Management also reported hail in the same area.

FREDERICK COUNTY

STEPHENS CITY	08/25/07 15:08 EST		0	Thunderstorm Wind (MG 52 kt)
	08/25/07 15:10 EST		0	39.08N, 78.22W

A Trained Spotter measured winds at 60 mph. The Frederick Emergency Operations Center reported trees down in Stephens City.

PAGE COUNTY

STANLEY	08/25/07 15:25 EST		0.18M	Thunderstorm Wind (EG 50 kt)
	08/25/07 15:30 EST		0	38.58N, 78.52W

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<p>Page County Emergency Management reported numerous trees down at the intersection of Old Stanley Road and Forest Drive and Old Stanley Road as well as Pond Avenue. Ten homes were damaged by trees and one storage facility was destroyed. A trailer camper was blown over. Power lines were also downed.</p>				
CLARKE COUNTY				
BOYCE	08/25/07 15:30 EST		0	Thunderstorm Wind (EG 50 kt)
	08/25/07 15:30 EST		0	39.1N, 78.05W
<p>Clarke County Emergency Management reported trees down in Boyce, VA.</p>				
MADISON COUNTY				
ROCHELLE	08/25/07 16:05 EST		0	Thunderstorm Wind (EG 50 kt)
	08/25/07 16:05 EST		0	38.28N, 78.27W
<p>Madison County Emergency Management reported trees down in Rochelle, VA.</p>				
FAUQUIER COUNTY				
HUME	08/25/07 16:08 EST		3K	Thunderstorm Wind (EG 50 kt)
WARRENTON	08/25/07 16:15 EST		0	38.83N, 78W ~ 38.72N, 77.78W
<p>Fauquier County Emergency Management reported trees down in the central and western parts of the county.</p>				
LOUDOUN COUNTY				
LOVETTSVILLE	08/25/07 16:14 EST		0	Thunderstorm Wind (MG 57 kt)
	08/25/07 16:18 EST		0	39.27N, 77.63W
<p>A Trained Spotter measured wind gusts of 59 and 66 mph in Lovettsville, VA.</p>				
RAPPAHANNOCK COUNTY				
CASTLETON	08/25/07 16:30 EST		0	Thunderstorm Wind (EG 50 kt)
	08/25/07 16:30 EST		0	38.6N, 78.12W
<p>Rappahannock County Emergency Management reported trees down in Castleton, VA.</p>				
FAUQUIER COUNTY				
MARKHAM	08/25/07 16:57 EST		0	Thunderstorm Wind (EG 50 kt)
	08/25/07 16:57 EST		0	38.9N, 78W
<p>Fauquier County Emergency Management reported trees down in Markham, VA.</p>				
CULPEPER COUNTY				
GRIFFINSBURG	08/25/07 17:00 EST		0	Thunderstorm Wind (EG 50 kt)
	08/25/07 17:00 EST		0	38.52N, 78.1W
<p>Culpeper County Emergency Management reported trees down in Griffinsburg, VA.</p>				
STAUNTON (C) COUNTY				
STAUNTON	08/25/07 17:30 EST		2K	Thunderstorm Wind (EG 50 kt)
	08/25/07 17:30 EST		0	38.15N, 79.07W
<p>A Trained Spotter reported trees and power lines down in the City of Staunton.</p>				
PRINCE WILLIAM COUNTY				
DUMFRIES	08/25/07 17:54 EST		0	Thunderstorm Wind (EG 50 kt)
	08/25/07 17:54 EST		0	38.57N, 77.33W
<p>Prince William County Emergency Management reported trees down in Dumfries, VA.</p>				
ALBEMARLE COUNTY				
4.0 NE (CHO)CHARLOTTESVILLE	08/25/07 18:07 EST		0	Hail (0.75 in)
	08/25/07 18:07 EST		0	38.1909N, 78.398W
<p>A Trained Spotter reported penny size hail northeast of Charlottesville, VA.</p>				

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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MADISON COUNTY

HAYWOOD	08/25/07 18:35 EST	0	Hail (0.75 in)
	08/25/07 18:35 EST	0	38.45N, 78.27W

A Trained Spotter reported penny size hail in Haywood, VA.

GREENE COUNTY

4.0 N RUCKERSVILLE	08/25/07 19:10 EST	2K	Thunderstorm Wind (EG 50 kt)
	08/25/07 19:15 EST	0	38.2878N, 78.37W

Broadcast media contact reported trees down north of Ruckersville, VA. Route 29 was closed north of Route 33 due to downed trees on the road.

FAIRFAX COUNTY

BURKE	08/25/07 21:36 EST	10K	Thunderstorm Wind (EG 50 kt)
	08/25/07 21:36 EST	0	38.8N, 77.27W

A Trained Spotter reported a tree down on a house near the intersection of Burke Road and Burke Lake Road.

FAIRFAX COUNTY

SPRINGFIELD	08/25/07 21:53 EST	10K	Thunderstorm Wind (EG 50 kt)
	08/25/07 21:53 EST	0	38.78N, 77.18W

Fairfax County Emergency Management reported a tree down on a house on Hamlet Street in Springfield, VA.

A hot and humid air mass developed over the Mid Atlantic ahead of a strong cold front on August 25th. Temperatures climbed into the mid 90s by noon. These temperatures combined with high humidity created heat index values around 105. Showers and thunderstorms developed during the late afternoon as the cold front approached the region. Some of these storms became severe, producing large hail and damaging winds that downed trees and power lines.

WEST VIRGINIA, East

(WV-Z052) BERKELEY, (WV-Z053) JEFFERSON

08/01/07 00:00 EST	0	Drought
08/21/07 23:59 EST	0	

A portion of the Mid Atlantic hydrologic service area experienced severe agricultural drought conditions from July 24th through August 21st. This area included Berkeley and Jefferson Counties in the eastern pan handle of West Virginia. Using a combination of rainfall measurements and radar precipitation estimates, some locations averaged rainfall totals as high as 6 inches below normal. This led to some jurisdictions restricting water use. Damage estimates were not available.

(WV-Z501) WESTERN GRANT, (WV-Z502) EASTERN GRANT, (WV-Z503) WESTERN MINERAL, (WV-Z504) EASTERN MINERAL

08/07/07 01:00 EST	0	Dense Fog
08/07/07 08:00 EST	0	

A warm and humid air mass over the region allowed dense fog to develop along the Allegheny Front in the eastern pan handle of West Virginia. Automated Surface Observations reported dense fog, reducing visibilities to a quarter mile or less, during the early morning hours of August 7th.

HARDY COUNTY

4.0 SW MOOREFIELD	08/09/07 18:30 EST	1K	Thunderstorm Wind (EG 50 kt)
	08/09/07 18:30 EST	0	39.0291N, 79.0827W

A Hardy County official reported trees down on South Fork Road southwest of Moorefield, WV.

A strong cold front combined with a humid and unstable air mass across the Mid Atlantic on August 9th. Scattered showers and thunderstorms developed across the eastern pan handle of West Virginia during the late morning and spread east to the Blue Ridge during the early and mid afternoon. A storm moving over Hardy County became severe, producing damaging winds southwest of Moorefield.

BERKELEY COUNTY

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MARTINSBURG	08/16/07 07:30 EST		0	Thunderstorm Wind (EG 50 kt)
	08/16/07 07:30 EST		0	39.45N, 77.97W

An NWS Employee reported a statue toppled near Martinsburg, WV.

A very warm and humid air mass over the Mid Atlantic combined with an upper level disturbance during the mid morning hours of August 16th. Scattered showers and thunderstorms developed over the eastern pan handle of West Virginia. One of these storms became severe, producing wind damage in Berkeley County.

JEFFERSON COUNTY

SUMMIT PT	08/25/07 15:30 EST		0	Hail (1.00 in)
	08/25/07 15:35 EST		0	39.25N, 77.78W

A Trained Spotter reported penny and quarter size hail reported at Summit Point Raceway west of Charles Town, WV.

A hot and humid air mass developed over the Mid Atlantic ahead of a strong cold front on August 25th. Showers and thunderstorms developed during the late afternoon as the cold front approached the region. Some of these storms became severe, producing large hail and damaging winds that downed trees and power lines.