



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

March 1999

Killed Injured Property Crops Character of Storm

DISTRICT OF COLUMBIA

DCZ001 District Of Columbia

An area of low pressure moved from the Ohio Valley to North Carolina from late on the 8th through the evening of the 9th. The storm produced an unusual band of heavy snow that fell directly over the nation's capital and the western suburbs. Snowfall rates were occasionally in excess of 1 1/2 inches per hour during the morning and afternoon of the 9th. By evening, the snow depth reached 11.5 inches on North Capitol Street downtown. Washington Reagan National Airport reported 8.4 inches. The rapid accumulation of snow made travelling treacherous. The Federal Government was forced to shut down at midday. The House of Representatives had to postpone voting because many representatives were unable to get to work. Hundreds of accidents and a handful of injuries occurred on area roads as commuters struggled to get home from work and school. Virginia State Police responded to 250 accidents and towed 200 vehicles in the western suburbs alone. Adding to the travel nightmare, numerous flights were cancelled at Washington Reagan National Airport between 7:00 am and midnight. This storm produced more snow in one 24 hour period than had fallen in Washington D.C. over the last two years.

MARYLAND, Central

Frederick County Frederick	03	1845EST	0	0	2K		Thunderstorm Wind	
	Power	r lines downed						
Washington County								
Hagerstown	03	1855EST	0	0	5K		Thunderstorm Wind	
	Trees	and power lines downed						
MDZ002>005	Allega	ny - Washington - Frederick - Carroll						
	$\begin{array}{c} 03 \\ 04 \end{array}$	1900EST 1200EST	0	0			Winter Storm	
Washington County								
Hancock	03	1900EST	0	0		1K	Lightning	
	Horse	struck by lightning						
Carroll County								
Taneytown	03	1940EST	0	0	8K		Thunderstorm Wind	
	Trees and power lines downed, roof of barn damaged							
Baltimore County								
Owings Mills	03	1945EST	0	0	2K		Thunderstorm Wind	
	Power	r lines downed on Route 140						
Anne Arundel County								
Arnold	03	2000EST	0	0	7K		Thunderstorm Wind	
	Churc	h facing and shingles blown off, trees and pow	er lines do	owned				
MDZ006>007-009		ern Baltimore - Harford - Montgomery						
	04	0300EST 1200EST	0	0			Winter Weather	

A low pressure system moved from West Virginia to Pennsylvania on the evening of the 3rd. This system produced sustained winds of 25 to 40 mph from the afternoon of the 3rd through the morning of the 4th. The strong wind forced the closure of the Bowie Freeway Airport and required officials to post high wind warning signs on Chesapeake Bay bridges. A cold front associated with the system moved through during the early evening and produced a line of thunderstorms that brought heavy rain, small hail, and wind gusts in excess of 55 mph. Washington County reported downed trees and power lines, and 2,000 power outages. In addition, a horse was struck by lightning near Hancock. Frederick County reported downed power lines and 1,600 power outages. Carroll County reported numerous branches and some trees down near Taneytown. Loose lumber was blown off a deck, sheet metal roof panels on a barn were torn off, and a chimney cap was blown off near Owings Mills in Southern Baltimore County. A church near Glen Burnie in Anne Arundel County reported shingles and facing blown off and a few trees and power lines downed, disrupting power for nearly 1,000 residents. After the cold front passed, temperatures dropped rapidly and rain turned to snow across Western and North Central Maryland. Allegany County received between 2 and 9 inches of snow, Washington County received 2 to 6 inches, Frederick County received 2 to 6 inches, Carroll County received 5 to 6 inches, Northern Baltimore County received 2 to 5 inches, Harford County received 2 to 3 inches, and Montgomery County recorded 1 to 4 inches. The combination of winds and snowfall in excess of one inch per hour across Western Maryland led to nearly blizzard conditions. Several road had to be closed temporarily, including Interstate 68 from Frostburg to the West Virginia border and





Time Path Path Number of Estimated March 1999
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

MARYLAND, Central

Interstate 81 near Hagerstown. The significant snowfall also led to several traffic accidents during the morning of the 4th, including two collisions that closed Route 15 north of Thurmont, a 20 vehicle collision at the intersection of U.S. Route 340 and Maryland Route 17 near Brunswick which closed the road for 2 hours, and an overturned tractor trailer on Interstate 70 near the State Police barracks. In addition, several tractor trailers became disabled on Interstate 68 and 81, and several cars became disabled on Braddock Mountain along Interstate 70.

MDZ002>003 Allegany - Washington

A fast moving storm system travelled across the Appalachian Mountains and tracked along the Mason-Dixon line on the morning of the 6th. This disturbance produced snow across Western Maryland from early morning to midday. The snow came down at a rate of 1 to 1 1/2 inch an hour around 9:00 am in Western Washington County, and the town of Hancock ended up with almost 5 inches of accumulation. Frostburg and Cumberland reported 3 inches.

MDZ002>004-009>010-013>014-016>018 Allegany - Washington - Frederick - Montgomery - Howard - Prince Georges - Anne Arundel - Charles - St. Mary'S - Calvert

09 0200ES

0 0 Winter Storm

MDZ005>006-011

Carroll - Northern Baltimore - Southern Baltimore

09 0600EST 0 0 Winter Weather 2359EST

An area of low pressure moved from the Ohio Valley to North Carolina from late on the 8th through the evening of the 9th. Heavy snow fell across Western and Central Maryland as the storm system moved through. Snowfall rates were in excess of 1 1/2 inches per hour in some locations during the storm. By the evening of the 9th, 6 to 10 inches had fallen in Prince Georges, Montgomery, and Allegany County; 4 to 8 inches had fallen across Washington, Southern Frederick, Howard, Anne Arundel, Charles and Calvert County; 2 to 5 inches had fallen across St. Mary's, Northern Frederick, Carroll, and Southern Baltimore County, including Baltimore City; and 2 inches or less had fallen across Northern Baltimore County. Travel was treacherous across the region on the 9th. The Maryland State Police received 70 accident reports between 11:00 am and 3:00 pm. Over 275 accidents occurred in Anne Arundel County during the storm, resulting in 16 injuries. Whiteout conditions were reported on Route 27 in Carroll County. Two buses were in accidents in Frederick County. A motorist was killed in a car accident on Route 107 in Montgomery County. Another motorist was killed on Branch Avenue in Prince Georges County when she was hit by a car while inspecting damage to her car from a separate collision. Charles County reported 120 accidents in 6 hours, including one crash involving a school bus. Calvert County reported 91 crashes with 9 injuries, including a 6 car pileup near Lusby. After the snow ended, one man died from a heart attack in Prince Georges County after shovelling snow, and two others were admitted to hospitals suffering from chest pains.

MDZ002>007-009-011

Allegany - Washington - Frederick - Carroll - Northern Baltimore - Harford - Montgomery - Southern Baltimore

14 0500EST 0 0 Winter Storm

15 1400EST

MDZ010-013>014-016 Howard - Prince Georges - Anne Arundel - Charles

14 0800EST 0 0 Winter Weather

An area of low pressure over the Southeast U.S. produced snow across Western and Central Maryland on the 14th. Snowfall amounts were heaviest near the Pennsylvania border. Rain mixed with snow southeast of a line from Baltimore to Washington, D. C. The low pressure system redeveloped off the coast of North Carolina and moved up the Eastern Seaboard on the morning of the 15th, resulting in another period of snowfall. Total accumulations included 10 to 12 inches in Allegany County, 6 to 15 inches in Washington County, 6 to 12 inches in Frederick County, 5 to 10 inches in Carroll County, 4 inches in Howard County, and 2 to 3 inches in Southern Baltimore County, Northern Anne Arundel County, Prince Georges, and Northern Charles County. The snow was very wet and heavy and accumulations resulted in over 30,000 power outages across North Central Maryland; 15,000 in Baltimore County, 6,300 in Harford County, and 1,600 in Anne Arundel County. Driving was also difficult, especially in Western Maryland. Over 200 travellers were stranded in Washington County on the 14th after a 36 car pileup occurred around 2:00 pm on Interstate 70 near Clear Spring. 18 people were hurt in the accident, and 5 received serious injuries. The westbound lanes of 1-70 were closed for 3 1/2 hours and the eastbound lanes were closed for 6 hours. There were several accidents reported on Interstate 68 as well during the storm. The heavy snowfall also closed the airport in Hagerstown.

VIRGINIA, North

Prince William County

Haymarket 03 1700EST 0 0 1K Thunderstorm Wind

Winshield blown out by wind

Prince William County

Dale City 03 1710EST 0 0 1K Thunderstorm Wind





		Time	Path	Path	Numb	er of	Estimate	March 1999
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed		Damag	
VIRGINIA, North								
	Pine tre	ees downed						
Greene County	Time tre	cs downed						
Countywide	03 Trees a	1720EST 1730EST nd power lines	s downed		0	0	4K	Thunderstorm Wind
Rappahannock County		•						
Countywide	03 Trees d	1755EST 1810EST lowned			0	0	2K	Thunderstorm Wind
Shenandoah County								
Countywide	03	1800EST			0	0	5K	Thunderstorm Wind
	Trees a	nd power lines	s downed					
Shenandoah County	02	10000000			0	0	0.5017	
Woodstock	03	1800EST			0	0	0.50K	Thunderstorm Wind
T 1 11 C 4	Roof bl	lown off outbu	ııldıng					
Frederick County Winchester Arpt	03	1810EST			0	0	20K	Thunderstorm Wind
,, menegoer raipe		vall damaged	at warehouse		v	v		
Frederick County	Eurge v	van damagea (at warehouse					
Winchester Arpt	03	1810EST			0	0	2K	Thunderstorm Wind
	Trees a	nd signs down	ned					
Shenandoah County								
Strasburg	03	1810EST			0	0	1K	Thunderstorm Wind
	Top of	automated tell	ler machine blov	wn off				
VAZ028	Frederi							
	04	0000EST 1000EST			0	0		Winter Storm
VAZ031-042	Clarke	- Loudoun						
	04	0000EST 1000EST			0	0		Winter Weather
	winds of moved in excereporter machin Rubber custom across t reachin windsh cold fro or less of receive	pressure syster of 25 to 40 mp through during ss of 55 mph. d power outage at the Strasb maid Commer ers reported pethe county and g bankful arouield of a vehic ont passed, ten of snow overn d 3 inches.	h from the after g the early even In Shenandoah es. A roof was urg Shopping C rcial Products R ower outages. T I downed electri and 6:00 pm. R le on Interstate aperatures dropj ight, however F	rnoon of the 3 ing and prod County, dow blown off an Center was als ceceiving Wa he peak gust c poles near appahannock 66 was blow ped rapidly a frederick Cou	Brd through uced a line wheel trees at outbuilding so blown of rehouse in V at the Winc Eheart. Alt a County als n out by high nd rain turninty receive	the morniof thundered power g in Fairviff. Frederi Wincheste Chester Ai bemarle Co reported wind. I ded to snow d 2 to 5 in	ing of the 4th. rstorms that br lines were rep iew near Wooc ick County rep r. The wind a rport was 42 m ounty reported d trees down. In Dale City, so w across North nches and a loc	the 3rd. This system produced sustained A cold front associated with the system rought heavy rain, small hail, and wind gusts orted across the county. 1,375 customers istock, and the top of an automated teller orted substantial damage to a large wall at the lso levelled several trees and signs. 6,000 nph. Greene County reported trees down I power outages and small creeks and streams Prince William County reported the everal pine trees were also downed. After the tern Virginia. Most locations received an incheration on the Clark and Loudoun County line
VAZ026>031-038>042- 050>057								ison - Rappahannock - Fauquier - Spotsylvania - King George
	09	0300EST 2359EST			0	0		Winter Storm
VAZ036>037	Nelson	- Albemarle						
	09	0400EST 2359EST			0	0		Winter Weather
	An area	a of low pressu	ire moved from					the 8th through the evening of the 9th. Heavy

An area of low pressure moved from the Ohio Valley to North Carolina from late on the 8th through the evening of the 9th. Heavy snow fell across the Appalachian Mountains and the eastern foothills as the storm system moved through. In addition, the storm produced an unusual band of heavy snow that stretched in a west to east line from Frederick County to Fairfax County. This band was about 50 miles wide from north to south, and storm total snowfall was as high as one foot in this area. Snowfall rates were in excess of 1 1/2 inches per hour in many locations during the storm. By evening on the 9th Frederick, Clarke, Loudoun,





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

VIRGINIA, North

Shenandoah, and Fairfax County received between 8 and 12 inches. Warren, Page, Northern Rockingham, Rappahannock, Prince William, and northern Fauquier County received between 6 and 10 inches. Southern Rockingham, Greene, Madison, Culpeper, Southern Fauquier, and Stafford County received between 4 to 8 inches. Highland, Augusta, Albemarle, Spotsylvania, and King George County received between 2 and 6 inches. Travel became treacherous across Northern Virginia on the 9th. Washington Reagan National Airport and Dulles International Airport reported numerous flight cancellations between 7:00 am and midnight. Hundreds of car accidents occurred on area roads. Loudoun County reported 53 vehicle collisions and 18 injuries. 24 school buses became stuck on rural routes. Route 7 near Highway 601 was closed. A fallen tree and power line also closed U.S. Highway 15 north of Leesburg. In Warren County, one person was killed in a car accident on Strasburg Road. The Winchester Airport in Frederick County was closed. In Shenandoah County, and early afternoon accident involving four tractor trailers closed part of Interstate 81 for four hours. Highland County reported several cars slipping off snow covered roads. Greene County reported several accidents on Route 29, including one jackknifed tractor trailer. Fauquier County reported an accident near Midland Road where 5 students and a bus driver were injured. At least 200 cars had to be towed off Interstate 95 and 66 during the storm. King George County reported two school buses in accidents and six others slipping off roadways. The city of Fredericksburg reported over 100 accidents. On Interstate 95 in Spotsylvania County, a woman was killed in a morning car accident. Another man was killed in an accident near Fort Belvoir in Fairfax County. Over 500 disabled vehicles and 30 injuries occurred across the county from 7:00 am to 1:00 pm. Hunter Mill Road was closed after 40 vehicles became disabled in the snow. Virginia State Police responded to 250 accidents and towed 200 vehicles during the storm in the Washington D.C. suburbs.

VAZ021-025>031-036-042-053 Highland - Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson - Loudoun - Fairfax

14 0500EST 15 1200EST Winter Storm

VAZ037>041-050>052

Albemarle - Greene - Madison - Rappahannock - Fauquier - Orange - Culpeper - Prince William

14 0500EST

0 0 Winter Weather

An area of low pressure over the Southeast U.S. produced snow across much of Northern Virginia on the 14th. Snowfall amounts were heaviest near the West Virginia border. Rain mixed with snow southeast of a line from Fairfax to Orange County. The low pressure system redeveloped off the coast of North Carolina and moved up the Eastern Seaboard on the morning of the 15th, resulting in another period of snowfall. Total accumulations included 8 inches in Highland County, 5 to 10 inches in Augusta County, 4 to 10 inches across Nelson County, 9.5 inches in Rockingham County, 7 to 12 inches in Page County, 5 to 10 inches in Shenandoah County, 5 inches in Warren and Clarke County, 5 to 8 inches in Frederick County, 3 to 9 inches in Loudoun County, 2 to 6 inches in Western Fairfax County, 3 to 5 inches in Northern Fauquier County, 2 to 3 inches in Rappahannock County, 2 inches in Madison and Greene County, and less than 2 inches elsewhere. The snowfall led to several car accidents and three deaths in the Washington D.C. suburbs. Two people were killed in a car accident on Route 28 near Dulles Airport in Loudoun County and a motorist was hit by a car while clearing snow from his vehicle in Arlington. Several wrecks were reported on Interstate 81 in Shenandoah County. Over 40 accidents occurred in Augusta County during the storm.

WEST VIRGINIA, East

D --- l -- l --- C ----- 4--

Berkeley County Martinsburg	03	1741EST	0	0	10K	Lightning
iviai viiisvai g		ning strike disabled Berkeley County 911			1411	2-19
Berkeley County	Zigii.	ining state districted 2 states of 3 states of 11		711 10 11 01		
Tablers	03	1831EST	0	0	5K	Thunderstorm Wind
	Power	r lines downed on U.S. 11 South near Tab	lers Station Ro	oad		
Berkeley County						
Martinsburg	03	1835EST	0	0	10K	Thunderstorm Wind
	Power	r lines and transformers downed				
Berkeley County						
Falling Waters	03	1842EST	0	0		Thunderstorm Wind (G51)
Jefferson County Charles Town	03	1850EST	0	0	3K	Thunderstorm Wind
	Power	r lines downed and chimney on house blo	wn over			
WVZ048>049-051>052	Grant 03 04	- Mineral - Morgan - Berkeley 1900EST 0800EST	0	0		Winter Storm





Time Local/ Length Width Persons Damage

Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

March 1999

Killed Injured Property Crops Character of Storm

WEST VIRGINIA, East

Lightning strike ruptured gas line and exposed electrical wires at a home

A low pressure system moved from West Virginia to Pennsylvania on the evening of the 3rd. This system produced sustained winds of 25 to 40 MPH from the afternoon of the 3rd through the morning of the 4th. A cold front associated with the system moved through during the early evening and produced a line of thunderstorms that brought heavy rain, small hail, and wind gusts in excess of 55 mph to the Eastern Panhandle. In Berkeley County, lightning struck the 911 Central Dispatch communication tower in Martinsburg, resulting in a service disruption. A lightning strike also ruptured a gas line and exposed electrical wires at a home east of Martinsburg. Power lines were downed on U.S. Highway 11 South near Tabler Station Road, and 1,200 customers lost power as a result. A wind gust of 59 MPH was recorded in Falling Waters. Jefferson County reported downed power lines and the chimney of a home blown over on South Childs Road. After the cold front passed, temperatures dropped rapidly and rain turned to snow. Pendleton and Jefferson County reported 2 inches of accumulation, Grant County reported 15 inches in the highest elevations to only 1 inch near the Hardy County border, Hardy County reported 1 to 3 inches, Mineral and Morgan County reported 5 inches, and Hampshire County reported 1 inch. The combination of winds and snowfall made travel difficult during the early morning of the 4th.

WVZ048 Grant

06 0200EST 0 0 Winter Weather

A fast moving storm system travelled across the Appalachian Mountains and tracked along the Mason-Dixon line on the morning of the 6th. This disturbance produced light to moderate snow across the Eastern Panhandle from early morning through midday. The town of Bayard received 3.5 inches of accumulation, and Keyser received 2.2 inches.

WVZ048>055 Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Pendleton - Hardy

An area of low pressure moved from the Ohio Valley to North Carolina from late on the 8th through the evening of the 9th. Heavy snow fell across much of the Eastern Panhandle as the storm system moved through. Snowfall rates were occasionally in excess of 11/2 inch per hour. By the evening of the 9th, between 8 and 12 inches of snow had accumulated in Mineral, Hampshire, Grant, and Hardy County; 6 to 10 inches fell across Jefferson and Southern Berkeley County; and 4 to 8 inches fell across Morgan, Northern Berkeley, and Pendleton County. Travel was treacherous across the region. Several accidents occurred on Interstate 81 in Berkeley County, including one fatal crash near Falling Waters around noon. Jefferson County reported 5 accidents and difficult driving conditions on Blue Ridge Mountain.

WVZ048>055 Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Pendleton - Hardy

4 0500EST 0 0 Winter Storm

An area of low pressure over the Southeast U.S. produced snow across the Eastern Panhandle on the 14th. The low pressure system redeveloped off the coast of North Carolina and moved up the Eastern Seaboard on the morning of the 15th, resulting in another period of snowfall. Total accumulations included 12 to 14 inches in Mineral County, 9 to 15 inches in Berkeley County, 9 to 11 inches in Hampshire County, 8 to 11 inches in Grant County, around 8 to 10 inches in Morgan County, 5 to 7 inches in Hardy County, 6 to 8 inches in Pendleton County, and around 6 inches in Jefferson County. The heavy snow made travelling difficult. Seven accidents were reported in rapid succession on Interstate 81 in Berkeley County during a 30 minute period on the 14th. Another accident in Berkeley County on West Virginia Route 9 and Rock Cliff Drive involved six cars and left two injured.