



# National Weather Service

## Storm Data and Unusual Weather Phenomena



January 2000

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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### DISTRICT OF COLUMBIA

DCZ001	District Of Columbia	02 04	0800EST 1800EST		0	0			Unusually Warm
<p>High pressure off the coast of the southeast U.S. turned winds southerly over the Mid-Atlantic region on the 2nd, starting a conveyor belt of warm air that would remain over the region through the 4th. With ample sunshine, high temperatures reached the upper 60s to lower 70s. The normal high temperature during the first week of January at Washington Reagan National Airport is 43 degrees. On the 2nd, the high temperature at National Airport and at the National Arboretum in D.C. reached 69 degrees. On the 3rd, National Airport reached 68 degrees and the National Arboretum reached 69 degrees. On the 4th, a new record high temperature of 68 degrees was set at National Airport. The National Arboretum reported a high temperature of 71 degrees. During the evening of the 4th, a strong cold front moved across the region, bringing an end to the unseasonably warm weather.</p>									
DCZ001	District Of Columbia	11	1030EST		0	0	10K		High Wind
<p>A strong cold front with damaging winds moved across the Washington D.C. metropolitan area during the morning of the 11th. High winds downed trees in Northwest D.C. and several parked cars were damaged. A wind gust of 44 MPH was reported at Washington Reagan National Airport.</p>									
DCZ001	District Of Columbia	13	1100EST 2000EST		0	0	10K		High Wind
<p>A vigorous cold front moved across the Washington D.C. metropolitan area around midday on the 13th. Winds in excess of 55 MPH reached the ground after the front moved through. High winds downed a tree onto a car and a home in the District, resulting in significant damage. Over 4300 customers lost power during the afternoon after tree limbs fell onto power lines. A wind gust of 55 MPH was recorded at Washington Reagan National Airport and a spotter estimated winds of over 50 MPH in the District.</p>									
DCZ001	District Of Columbia	20	0300EST 2000EST		0	0			Winter Weather
<p>An area of low pressure moved from west to east across the Mid-Atlantic region on the 20th, dropping light snow between midnight and mid-afternoon. Gusty winds of 35 to 45 MPH developed during the afternoon causing the snow to drift across roadways and reduce visibilities. The first snowstorm of the season forced Washington Reagan National Airport to cancel one third of morning flights. Several minor traffic accidents were reported across the metropolitan area. National Airport reported a snowfall total of 3.6 inches, observers at the National Arboretum and Dupont Circle reported 3.0 inches, and an observer in Northwest recorded 4.3 inches.</p>									
DCZ001	District Of Columbia	21	0000EST 1000EST		0	0			Extreme Windchill
<p>During the morning of the 21st, northwest winds were blowing at 15 to 30 MPH. Temperatures in the District were in the teens. This resulted in wind chill readings from 10 to 25 degrees below zero between midnight and 10 AM. The winds also caused snow that had fallen in the past 24 hours to drift back onto roads, resulting in a difficult morning commute.</p>									
DCZ001	District Of Columbia	25	0300EST 2359EST		0	0			Winter Storm
<p>Low pressure off Cape Hatteras rapidly intensified late on the 24th and developed into a nor'easter which tracked northward along the Eastern Seaboard on the 25th. Very heavy snow and near-blizzard conditions were seen across the District throughout the day, resulting in extremely hazardous travel conditions. Wind gusts of up to 45 MPH were recorded and some secondary roads were drifted shut by blowing snow. Numerous traffic accidents were reported across the metropolitan area. Washington Reagan</p>									



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### DISTRICT OF COLUMBIA

National Airport, commuter trains, and many bus routes were shut down. A new daily snowfall record of 9.3 inches was set at Washington Reagan National Airport. A storm total snowfall of 9.0 inches was recorded at the National Arboretum and at Dupont Circle, and an observer in Northwest recorded 11.0 inches.

**DCZ001**

**District Of Columbia**

<b>30</b>	<b>0500EST</b>				<b>0</b>	<b>0</b>			<b>Winter Storm</b>
	<b>1800EST</b>								

Cold air was in place east of the Blue Ridge Mountains on the 29th and 30th, keeping surface temperatures below freezing. Low pressure moved from the Lower Mississippi Valley northeastward to the Mid-Atlantic region early on the 30th, creating perfect conditions for a mix of sleet, freezing rain, and snow across the District. The mixed bag of precipitation resulted in several traffic accidents across the metropolitan area and travel delays at Washington Reagan National Airport and on commuter rail and bus lines. Storm total snow/sleet accumulations included 1.2 inches at National Airport, 1.8 inches at Dupont Circle, and 1.5 inches at the National Arboretum. Ice accumulations were less than one quarter inch.

### 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>0800EST</b>				<b>0</b>	<b>0</b>			<b>Unusually Warm</b>
<b>04</b>	<b>1800EST</b>								

High pressure off the Southeast U.S. coast turned winds southerly over the Mid-Atlantic region on the 2nd, starting a conveyor belt of warm air that would remain over the region through the 4th. With ample sunshine, high temperatures reached the middle 60s to lower 70s. Normal high temperatures for the first week of January are in the lower 40s. On the 2nd, high temperatures included 68 degrees at Baltimore/Washington International Airport (BWI) and downtown Baltimore, 70 degrees in Waldorf, 66 degrees in Frederick, 67 degrees at Hagerstown, and 69 degrees in Cumberland. On the 3rd, a new record high of 68 degrees was set at BWI Airport. Other high temperatures included downtown Baltimore at 66 degrees, Waldorf at 72 degrees, Frederick at 65 degrees, Hagerstown at 67 degrees, and Cumberland at 62 degrees. On the 4th, the record high of 70 degrees was tied at BWI Airport. Other high temperatures included downtown Baltimore at 70 degrees, Waldorf at 73 degrees, Frederick at 62 degrees, Hagerstown at 67 degrees and Cumberland at 65 degrees. During the evening of the 4th, a strong cold front moved across the region, bringing an end to the unseasonably warm weather.

**Montgomery County  
Countywide**

<b>11</b>	<b>1015EST</b>				<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
	<b>1045EST</b>								

Trees and power lines downed.

**MDZ003>004-007**

**Washington - Frederick - Harford**

<b>11</b>	<b>1030EST</b>				<b>0</b>	<b>1</b>	<b>22K</b>		<b>High Wind</b>
	<b>1100EST</b>								

Trees downed in Hagerstown.

**Howard County  
Columbia**

<b>11</b>	<b>1045EST</b>				<b>0</b>	<b>0</b>	<b>5K</b>		<b>Thunderstorm Wind</b>
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Trees downed onto roads.

A strong cold front moved across Maryland during the morning of the 11th. As the front moved through, winds in excess of 55 MPH were reported in some locations. In Washington County, high winds downed trees and wires in Hagerstown where a wind gust of 45 MPH was recorded. In Frederick County, trees were downed onto roads in Emmitsburg, Middletown, and New Market and over 1000 power outages were reported. In Montgomery County, wind gusts included 50 MPH at Damascus, 51 MPH at Clarksburg, and 46 MPH at Germantown. Trees and power lines were downed in Potomac, Rockville, Gaithersburg, and Germantown. In Howard County, trees were downed onto Forsythe, Ten Oaks, and Nickel Roads in Columbia. A wind gust of 44 MPH was recorded in Ellicott City and Clarksville. In Harford County, several trees and power lines were downed in Bel Air, Abingdon, Norrisville, and Forest Hill. One tree toppled onto a car on Emmorton Road in Bel Air, seriously injuring a 28-year-old



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### MARYLAND, Central

woman. A wind gust of 47 MPH was recorded in Hickory and a 52 MPH wind gust was recorded at Aberdeen Proving Ground. Nearly 2500 customers were without power by noon. Other recorded wind gusts included 55 MPH at Manchester and 40 MPH at Finksburg in Carroll County, 50 MPH at Laurel and 40 MPH at Andrews Air Force Base in Prince George's County, 57 MPH at Rivera Beach and 47 MPH at BWI Airport in Anne Arundel County, and 45 MPH at Hollywood in St. Mary's County.

#### **MDZ009-013>014-016-018 Montgomery - Prince Georges - Anne Arundel - Charles - Calvert**

<b>13</b>	<b>1200EST 2000EST</b>	<b>0</b>	<b>1</b>	<b>33K</b>	<b>High Wind (G56)<sup>M</sup></b>
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Home damaged by fallen tree in Kensington.

A vigorous cold front moved across the area from west to east around midday on the 13th. Winds in excess of 55 MPH reached the ground after the front moved across Central Maryland. In Montgomery County, a tree was downed onto a home in Kensington and 1000 customers lost power. A wind gust of 42 MPH was recorded in Forest Glen and a wind gust of 53 MPH was recorded in Silver Spring and Glenmont. In Prince Georges County, an awning blew off a restaurant an injured a 42-year-old woman in Greenbelt. Several trees and power lines were downed across the county, resulting in 10,000 power outages. Winds gusted to 53 MPH at Andrews Air Force Base and 48 MPH in South Bowie. In Charles County, a wind gust of 65 MPH was recorded at Bryans Road. In Calvert County, a few trees were downed. In Anne Arundel County, winds gusted to 50 MPH in Annapolis, 48 MPH at Baltimore/Washington International Airport and Rivera Beach, and 47 MPH at Millersville. Trees and power lines were downed in Arnold, Annapolis, and Glen Burnie, and 2000 customers lost power. Other notable wind gusts across Maryland included 57 MPH at Westminster in Carroll County and Oraville in St. Mary's County, 54 MPH at Morganza in St. Mary's County, 53 MPH at Hagerstown in Washington County, and 51MPH at Laurel in Howard County. In addition, blowout tides were reported on the west side of the Chesapeake Bay due to the length of time gusty northwest winds were observed. Baltimore Harbor reported water levels 3 feet below normal by the morning of the 14th.

#### **MDZ002**

##### **Allegany**

<b>16</b>	<b>1159EST</b>	<b>0</b>	<b>0</b>	<b>80K</b>	<b>High Wind (G57)<sup>M</sup></b>
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66 MPH wind gust; Roof blown off a home and shed and trees downed.

A strong cold front moved across Western Maryland midday on the 16th, producing winds in excess of 55 MPH. At the Cumberland Airport, a wind gust of 66 MPH was recorded at 11:59 AM. Near Cumberland, a roof was blown off a home and a garage. Several trees were downed in the vicinity, including one that fell onto a car. In Cumberland, roofing material blew off a 3rd Street business, damaging a car and closing the road for several hours. An awning was blown off a Cumberland home and another resident reported a damaged shed. Near Artemus, a tree on Moore's Hollow Road was downed onto a power line and sparked a brush fire.

#### **MDZ002>007-009>011-013>014-017>018**

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

<b>20</b>	<b>0000EST 1800EST</b>	<b>0</b>	<b>1</b>		<b>Winter Storm</b>
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#### **MDZ016**

##### **Charles**

<b>20</b>	<b>0000EST 1800EST</b>	<b>0</b>	<b>0</b>		<b>Winter Weather</b>
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Low pressure moved from west to east across the Mid-Atlantic region on the 20th, dropping 3 to 8 inches of snow between midnight and mid-afternoon. Gusty winds of 35 to 45 MPH developed during the afternoon causing the snow to drift across roadways and reduce visibilities in open areas. The first snowstorm of the season led to flight delays at Baltimore Washington International Airport (BWI) and resulted in several minor traffic accidents. One person was treated for hypothermia at North Anne Arundel Hospital near Annapolis. Snowfall totals included 4.7 inches in Westminster, 7.0 inches in Bel Air, 5.0 inches in Baltimore, 7.5 inches in Annapolis, 5.7 inches at BWI, 4.8 inches at Andrews Air Force Base, 3.0 inches at Patuxent River Naval Air Station, 4.0 inches in La Plata, 6.2 inches in Damascus, 8.0 inches in Emmitsburg, 4.1 inches in Hagerstown, 6.5 inches in Cumberland, and 7.7 inches in Frostburg.



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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>21</b>	<b>0000EST 2000EST</b>				<b>0</b>	<b>0</b>			<b>Extreme Windchill</b>
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During the morning of the 21st, northwest winds were blowing at 15 to 30 MPH. Temperatures across the region were in the teens. This resulted in wind chill readings from 10 to 25 degrees below zero between midnight and 10 AM. The winds also caused snow that had fallen in the past 24 hours to drift back onto roads, resulting in a difficult morning commute.

**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>22</b>	<b>0000EST 1000EST</b>				<b>0</b>	<b>0</b>			<b>Extreme Cold</b>
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High pressure built into the Mid-Atlantic region on January 21st. A combination of clear skies, calm winds, and a fresh snowpack led to extremely cold overnight temperatures. On the morning of the 22nd, the mercury dropped into the single digits above and below zero. Low temperatures included 9 degrees at Baltimore/Washington International Airport, 7 degrees at Damascus, 8 degrees in Mechanicsville, 9 degrees in Frederick, -1 degrees in Sharpsburg, 5 degrees in Hagerstown, and 2 degrees in Frostburg. The low temperature in downtown Baltimore only fell to 13 degrees because of its metropolitan location.

**MDZ003>007-009>011-013>014-016>018**     **Washington - Frederick - Carroll - Northern Baltimore - Harford - Montgomery - Howard - Southern Baltimore - Prince Georges - Anne Arundel - Charles - St. Mary'S - Calvert**

<b>25</b>	<b>0300EST 2359EST</b>				<b>1</b>	<b>0</b>			<b>Winter Storm</b>
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Low pressure off Cape Hatteras rapidly intensified late on the 24th and developed into a nor'easter which tracked northward along the Eastern Seaboard on the 25th. Very heavy snow and near-blizzard conditions were seen throughout the day east of the Blue Ridge Mountains, resulting in extremely hazardous travel conditions. Wind gusts of up to 45 MPH were recorded and several roads were drifted shut by blowing snow. Snow drifts of 4 to 5 feet were common. Numerous traffic accidents were reported and most airports and transit systems were shut down. A 74-year-old man found sitting next to a building in Annapolis died from hypothermia. Another man in Prince George's County died of a heart attack after shoveling snow. In Anne Arundel County, at least 5 people died from heart attacks after shoveling snow and 20 people were treated for back injuries. A pedestrian was killed in Baltimore County after slipping under a tow truck. One man in Howard County was treated for lacerations from a snow blower accident. Several people were treated for injuries sustained in car accidents and broken bones and sprains from slips and falls. The governor of Maryland declared a state of emergency as the storm battered the area. Snowfall totals ranged from about 1 inch in Central Washington County to 20 inches near the Chesapeake Bay. A new daily snowfall total of 10.3 inches was set at Baltimore/Washington International Airport (BWI) on the 25th. Storm total snowfall included 14.9 inches at BWI, 17.0 inches in Annapolis, 16.5 inches in Hollywood, 14.0 inches in Westminster, 13.5 inches in Oxon Hill, 11.5 inches in Gaithersburg, 12.0 inches in Waldorf, 17.0 inches in Baltimore, 11.5 inches in Columbia, 14.0 inches in Bel Air, 9.0 inches in Frederick, 13.5 inches in Hagerstown, and less than 1 inch in Frostburg and Cumberland. M74OU

**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>27 29</b>	<b>1200EST 1000EST</b>				<b>0</b>	<b>0</b>			<b>Extreme Cold</b>
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High pressure was centered directly over the Mid-Atlantic region on the 28th and 29th. The combination of clear skies, calm winds, and a snowpack led to unusually cold temperatures. On the morning of the 28th and 29th, the mercury dropped into the single digits above and below zero in many locations. Low temperatures on the 28th included 9 degrees at Baltimore/Washington International Airport, 11 degrees in Mechanicsville, 7 degrees in Frederick, -1 degree in Sharpsburg, 8 degrees in Hagerstown, and 4 degrees in Frostburg. The low temperature in downtown Baltimore only fell to 16 degrees because of its metropolitan location. On the 29th, low temperatures included 8 degrees at Baltimore/Washington International Airport, 6 degrees in Mechanicsville, 12



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### MARYLAND, Central

degrees in Frederick, -2 degrees in Sharpsburg, 4 degrees in Hagerstown, and 7 degrees in Frostburg. The low temperature in downtown Baltimore only fell to 20 degrees because of its metropolitan location.

**MDZ002>007-009>011-013>014**

**Allegany - Washington - Frederick - Carroll - Northern Baltimore - Harford - Montgomery - Howard - Southern Baltimore - Prince Georges - Anne Arundel**

<b>30</b>	<b>0300EST 2000EST</b>			<b>0</b>	<b>0</b>			<b>Winter Storm</b>
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**MDZ016>018**

**Charles - St. Mary'S - Calvert**

<b>30</b>	<b>0300EST 2000EST</b>			<b>0</b>	<b>0</b>			<b>Ice Storm</b>
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Cold air was in place east of the Blue Ridge Mountains on the 29th and 30th, keeping surface temperatures below freezing. Low pressure moved from the Lower Mississippi Valley northeastward to the Mid-Atlantic region early on the 30th, creating the perfect conditions for freezing rain across South Central Maryland, a mix of sleet and snow in North Central Maryland, and moderate snowfall from Carroll County westward. Ice accumulations between 1/4 and 1 inch coated roads, trees, and power lines in St. Mary's, Charles, and Calvert Counties. Electrical outages were reported as trees and branches weighed down by ice fell onto power lines. Disruptions affected 1700 customers in Prince George's and Charles Counties, 4000 customers in Anne Arundel County, 600 customers in Baltimore, 2200 customers in Calvert County, and 4100 customers in St. Mary's County. St. Mary's County officials had to remove 60 downed trees after the storm. A mix of sleet, freezing rain, and snow fell across Prince George's and Anne Arundel Counties. Snow and sleet accumulations in this area ranged from 1 to 3 inches. Elsewhere 3 to 10 inches of snow and sleet fell. Storm total snow/sleet accumulations included 4.0 inches in Baltimore and Bel Air, 2 to 3 inches at Baltimore/Washington International Airport (BWI), 1 to 2 inches in Annapolis, 7.0 inches in Gaithersburg, 1.0 inch in Oxon Hill, 9.3 inches in Westminster, 10.0 inches in Frederick, 7.9 inches in Hagerstown, 5.0 inches in Cumberland, and 5.1 inches in Frostburg. Several traffic accidents were reported across the area, including one wreck which claimed the life of a 45-year-old woman on the Baltimore-Washington Parkway. One hospital in Anne Arundel County treated 25 people for car accident related injuries, 12 patients for slip and fall injuries, and 20 patients reporting heart-related problems, most likely due to shoveling snow. Passengers at both BWI and on commuter trains reported travel delays.

### VIRGINIA, North

**VAZ021-025>031-036>042-050>057**

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

<b>02 04</b>	<b>0800EST 1800EST</b>			<b>0</b>	<b>0</b>			<b>Unusually Warm</b>
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High pressure off the Southeast U.S. coast turned winds southerly over the Mid-Atlantic region on the 2nd, starting a conveyor belt of warm air that would remain over the region through the 4th. With ample sunshine, high temperatures reached the mid 60s to low 70s. Normal high temperatures during the 1st week of January are in the lower 40s. On the 2nd, the high temperature at Washington Reagan National Airport reached 69 degrees. Other high temperatures included Dulles International Airport at 67 degrees, Fredericksburg at 69 degrees, Winchester at 68 degrees, Charlottesville at 66 degrees, and Staunton at 63 degrees. On the 3rd, National Airport reached a high of 68 degrees. Other high temperatures included Dulles Airport at 68 degrees, Fredericksburg at 71 degrees, Winchester at 67 degrees, Charlottesville at 68 degrees, and Staunton at 66 degrees. On the 4th, a new record high temperature of 68 degrees was set at National Airport. Other reports included Dulles Airport at 69 degrees, Fredericksburg at 71 degrees, Winchester at 69 degrees, Waynesboro at 65 degrees, and Staunton at 62 degrees. During the evening of the 4th, a strong cold front moved across the region, bringing an end to the unseasonably warm weather.



# National Weather Service

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January 2000

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					Killed	Injured	Property	Crops	

### VIRGINIA, North

**VAZ025**

**Augusta**

<b>11</b>	<b>0900EST 1100EST</b>				<b>0</b>	<b>0</b>	<b>6K</b>		<b>High Wind</b>
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Roof blown off mobile home.

**Loudoun County**

**Ashburn**

<b>11</b>	<b>1015EST</b>				<b>0</b>	<b>0</b>	<b>2K</b>		<b>Thunderstorm Wind</b>
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Trees downed.

A strong cold front moved across Virginia during the morning of the 11th. As the front moved through, winds in excess of 55 MPH were reported in a few locations. Loudoun County officials reported high winds during a shower downed trees at 10:15 AM in Ashburn. In Augusta County, a high wind gust blew a roof off of a mobile home in the community of Verona. Damage was estimated at \$6,000. Recorded wind gusts across Northern Virginia included 42 MPH in Leesburg, 38 MPH at Dulles International Airport, 44 MPH at Washington Reagan National Airport, 47 MPH in New Market, 57 MPH in Luray, and 40 MPH in Winchester.

**VAZ021-025-025>031-036>042-042-050>053-053>054-054**

**Highland - Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Arlington**

<b>13</b>	<b>1100EST 2000EST</b>				<b>0</b>	<b>2</b>	<b>229K</b>		<b>High Wind (G73)<sup>M</sup></b>
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Trees downed.

A vigorous cold front moved across Northern Virginia from west to east midday on the 13th. Winds in excess of 55 MPH reached the surface after the front moved through. Fire fighters across the region were kept very busy by several brush fires that were started by downed power lines and spread quickly because of the gusty winds. In Frederick County, trees and power lines were downed in Stephens City and downed trees blocked Middle Road, Stoney Hill Road, and Morgan's Hill Road. A carport was blown off a home in Berryville. In Winchester, a house lost a portion of its roof and a wind gust of 52 MPH was recorded. In Clarke County, downed trees and power lines blocked Bishop Mead Road, Route 255 near Millwood, and 6 other secondary roads. In Loudoun County, a 75 MPH wind gust was recorded on Mt. Weather, and nearly 200 customers lost power in Leesburg. Damage was reported to the roof of a grocery store in South Riding. The National Weather Service in Sterling recorded a wind gust of 56 MPH. A wind gust of 52 MPH was recorded at Dulles International Airport and in Leesburg. Two of the three runways at Dulles Airport had to be closed between 1:00 and 5:00 PM because of dangerous cross winds.

In Fairfax County, 3600 customers lost power after several trees and power lines were downed. Several roads including Georgetown Pike were closed by fallen trees. A wind gust of 64 MPH was recorded in Annandale, a 53 MPH gust was measured at Fort Belvoir, a 50 MPH gust was reported in Centreville and Springfield, and a gust of 43 MPH was measured in Herndon. The roof of a classroom trailer at Rocky Run Middle School in Chantilly was blown off around 1:10 PM. Downed trees damaged cars in Mt. Vernon and Vienna, and a plate glass window was blown out at a bank in Clarendon. Roofing material which blew off a building in Fairfax injured one person. Four highway signs on Interstate 395 and 495 were blown onto the roadway. In Alexandria, trees, a lamp pole, and stop signs were downed. Nearly 3000 customers lost power during the afternoon. At a construction site on Mt. Vernon Avenue, a 19-year-old worker was seriously injured after a 30-foot-high brick wall fell on him. In Falls Church, a wind gust of 64 MPH was recorded at 1:56 PM. In Arlington County, trees and power lines were downed. One fallen tree significantly damaged a home. Siding and wood were also blown off buildings. North 15th Street near Courthouse Road had to be closed after plywood blew off a high-rise under construction. Winds gusted to 55 MPH at Washington Reagan National Airport and 49 MPH at Seven Corners.

In Prince William County, winds gusted to 51 MPH at Quantico Marine Base and 43 MPH at Manassas. Trees and power lines were downed across the county and 3000 power outages were reported. Route 234 at Spriggs Road and Yates Ford Road were blocked by downed trees and power lines. Trees blocked the intersections of Grant Avenue and Wier Street and Stonewall Jackson Road and Jackson Avenue, and one tree was downed on Manassas Drive in Manassas Park. Six property owners in Manassas reported damage to their homes from downed trees, branches, and missing shingles. Oak Grove Cemetery in Manassas reported damage to several headstones from fallen trees. In Fauquier County, an 84 MPH gust was reported at Warrenton and nearly 200 customers lost power. Signs were downed on a bridge nearby. In Culpeper County, a wind gust of 54 MPH was recorded at Boston and a gust of 45 MPH was measured in Culpeper. Several trees and power lines were downed onto homes, vehicles, farm buildings, and fences. A vending machine was toppled, shingles blew off roofs, a business sign was blown down, and sheds were blown over in Culpeper. A 24-foot-tall south wall on a home blew in and a portion of the roof on Culpeper Commons blew off. Over 3500 customers lost power across the country. Scattered pine trees and power lines were downed in Orange County. In Albemarle County and the city of Charlottesville, 3000 customers lost electricity after power lines were downed.

In Rappahannock County, several trees were downed onto roadways. A store in Sperryville reported \$27,000 in damage after



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### VIRGINIA, North

storm windows were blown off and high winds damaged merchandise. In Warren County, a few trees and power lines were downed, knocking out power to 1500 residents. High winds brought down a large pine tree onto a school lawn near Front Royal. In Shenandoah County, a 64 MPH wind gust was recorded at New Market and a 51 MPH gust was measured at Edinburg. In Rockingham County, a modular home on a truck overturned north of Mauzy on Interstate 81, closing the highway for 30 minutes. Another tractor trailer heading south near Harrisonburg was overturned by high wind, closing one lane of the interstate. Several trees and power lines were downed, resulting in 5000 power outages. A large tree was downed onto a home in Harrisonburg, where a wind gust of 50 MPH was recorded. In Augusta County, 2000 customers lost power after trees and power lines were downed. A window blew out on Ware Elementary School in Waynesboro, where a 60 MPH gust was recorded. A tractor-trailer carrying 80,000 pounds of cargo overturned on Interstate 81 near Greenville, closing an exit ramp. A wind gust of 43 MPH was recorded at Staunton. Officials in Highland County reported scattered downed trees and isolated power outages. In Nelson County, two trees were downed in Arrington.

**VAZ021-025>029-036>038-040>042-050>051-053>055**

**Highland - Augusta - Rockingham - Shenandoah - Frederick - Page - Nelson - Albemarle - Greene - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Fairfax - Arlington - Stafford**

20	0300EST 2000EST			0	0		<b>Winter Storm</b>
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**VAZ030>031-039-052-056>057**

**Warren - Clarke - Madison - Prince William - Spotsylvania - King George**

20	0300EST 2000EST			0	0		<b>Winter Weather</b>
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An area of low pressure moved from west to east across the Mid-Atlantic region on the 20th, dropping 2 to 6 inches of snow between midnight and mid-afternoon. Gusty winds of 35 to 45 MPH developed during the afternoon causing the snow to drift across roadways and reduce visibilities in open areas. The first snowstorm of the season forced Washington National and Dulles International Airports to cancel one third of their morning flights. Several minor traffic accidents were reported across the region. In addition, three tractor trailers jackknifed on Interstate 81 during separate incidents in Rockingham and Augusta Counties. Snowfall totals included 3.6 inches at Washington Reagan National Airport, 5.5 inches in Warrenton, 6.0 inches in Winchester, 3.1 inches in Fredericksburg, 4.7 inches in Charlottesville, 5 to 6 inches in Monterey, 4 to 5 inches in Staunton, 4.7 inches in Boston, 4.5 inches in Stanley, 5.0 inches in Lovingson, and 4.0 inches in Harrisonburg.

**VAZ021-025>031-036>042-050>057**

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

21	0000EST 1000EST			0	0		<b>Extreme Windchill</b>
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During the morning of the 21st, northwest winds were blowing at 15 to 30 MPH. Temperatures across the region were in the teens. This resulted in wind chill readings from 10 to 25 degrees below zero between midnight and 10 AM. The winds also caused snow that had fallen in the past 24 hours to drift back onto roads, resulting in a difficult morning commute.

**VAZ021-025>031-036>042-050>057**

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

22	0000EST 1000EST			0	0		<b>Extreme Cold</b>
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High pressure built into the Mid-Atlantic region on January 21st. A combination of clear skies, calm winds, and a fresh snowpack led to extremely cold overnight temperatures. On the morning of the 22nd, the mercury dropped into the single digits above and below zero. Low temperatures included 7 degrees at Dulles International Airport and in Fredericksburg, -4 degrees in Culpeper, 3 degrees in Winchester, -1 degrees in Luray, 4 degrees in Waynesboro, and -3 degrees in Mustoe. Washington National Airport only dropped to 14 degrees because of its metropolitan location.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



January 2000

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

VAZ025>031-036>042-050>057	<b>Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Arlington - Stafford - Spotsylvania - King George</b>	25	0300EST 2359EST	0	0				<b>Winter Storm</b>
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Low pressure off Cape Hatteras rapidly intensified late on the 24th and developed into a nor'easter which tracked northward along the Eastern Seaboard on the 25th. Very heavy snow and near-blizzard conditions were seen throughout the day east of the Blue Ridge Mountains, resulting in extremely hazardous travel conditions. Wind gusts of up to 45 MPH were recorded and several roads were drifted shut by blowing snow. Numerous traffic accidents were reported and most airports and transit systems were shut down. A few people were treated for slip and fall injuries in Fairfax County. One man in Winchester was treated for heart problems after shoveling snow. Scattered power outages were reported in Loudoun County and Alexandria. The governor of Virginia declared a state of emergency as the storm battered the eastern part of the state. Snowfall totals ranged from 1 inch near the Blue Ridge Mountains to 15 inches near the Potomac River. New daily snowfall records were set at Washington Reagan National and Dulles International Airports. Snowfall totals included 9.3 inches at National Airport, 10.3 inches at Dulles Airport, 15.0 inches in Warrenton, 12.0 inches in Fredericksburg, 5 to 6 inches in Winchester, 6.0 inches in Stanley 8.5 inches in Front Royal, 6.5 inches in Charlottesville, 5.5 inches in Waynesboro, 4.6 inches in Somerset, 7.0 inches in New Market, 4.0 inches in Sperryville, and less than 1 inch in Staunton and Harrisonburg.

VAZ021-025>031-036>042-050>057	<b>Highland - Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Arlington - Stafford - Spotsylvania - King George</b>	27 29	1200EST 1000EST	1	0				<b>Extreme Cold</b>
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High pressure was located directly over the Mid-Atlantic region between the 27th and 29th. The combination of clear skies, calm winds, and a snowpack led to extremely cold temperatures. On the 27th, a 59-year-old woman was found dead in the parking lot of a shopping center in Fairfax, and apparent victim of hypothermia. Temperatures were in the teens at dawn on the 27th and only reached the low 20s by early afternoon. On the morning of the 28th and 29th, the mercury dropped into the single digits above and below zero in many locations. Low temperatures from the 28th included 13 degrees at Dulles International Airport, 0 degrees in Fredericksburg and Waynesboro, 5 degrees in Culpeper, 7 degrees in Harrisonburg, 14 degrees in Winchester and Washington Reagan National Airport, 10 degrees in Staunton, -7 degrees in Elkton, and -3 degrees in Mustoe. Low temperatures from the 29th included 8 degrees at Dulles International Airport, 1 degree in Fredericksburg and Luray, 9 degrees in Front Royal, -1 degree in Waynesboro, 6 degrees in Culpeper, 11 degrees in Winchester, 12 degrees at National Airport, 8 degrees in Staunton, -4 degrees in Tye River, and -2 degrees in Mustoe. F59OU

VAZ021-025>031-036>042-050>054	<b>Highland - Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Arlington</b>	30	0300EST 2000EST	0	0				<b>Winter Storm</b>
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VAZ055>057	<b>Stafford - Spotsylvania - King George</b>	30	0600EST 2000EST	0	0				<b>Ice Storm</b>
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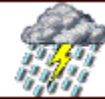
Cold air was in place east of the Blue Ridge Mountains on the 29th and 30th, keeping surface temperatures below freezing. Low pressure moved from the Lower Mississippi Valley northeastward to the Mid-Atlantic region early on the 30th, creating the perfect conditions for freezing rain around the Fredericksburg area, a mix of sleet and snow east of Skyline Drive, and moderate snowfall in the mountains. Ice accumulations between 1/4 and 3/4 of an inch coated roads, trees, and power lines in Fredericksburg and Stafford, Spotsylvania, and King George Counties. Electrical outages were reported as trees and branches weighed down by ice fell onto power lines. Disruptions affected 1000 power customers in Albemarle County, 125 customers in Orange County, and 3000 customers in Fredericksburg and Spotsylvania and King George Counties. A mix of sleet, freezing rain, and snow fell east of





# National Weather Service

## Storm Data and Unusual Weather Phenomena



January 2000

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

a line from Charlottesville to Arlington. Snow and sleet accumulations in this area ranged from 1 to 3 inches. West of this line, 3 to 7 inches of snow and sleet fell. Storm total accumulations included 1.2 inches at Washington Reagan National Airport, 6.4 inches at Dulles International Airport, 6.0 inches in Winchester, 9.0 inches in Luray, 6.5 inches in Warrenton, 2.5 inches in Manassas, 4.7 inches in Orange, 6.4 inches in Culpeper, 3.0 inches in Charlottesville, 6.5 inches in Staunton, and 7.0 inches in Monterey. Over 70 auto accidents were contributed to the storm, including two separate crashes in Loudoun County which killed a 59-year-old man and an 18-year-old woman. Significant flight delays were reported at National, Dulles, and Charlottesville-Albemarle Airports. Several train and bus routes were canceled or delayed. In Culpeper County, three horses suffering from hypothermia were rescued from a pond during the storm after falling through the ice.

### WEST VIRGINIA, East

**WVZ048>055**

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

<b>02</b>	<b>0800EST</b>								
<b>04</b>	<b>1800EST</b>			<b>0</b>	<b>0</b>				<b>Unusually Warm</b>

High pressure off the Southeast U.S. coast turned winds southerly over the Mid-Atlantic region on the 2nd, starting a conveyor belt of warm air that would remain over the region through the 4th. With ample sunshine, high temperatures reached the lower 60s to lower 70s. Normal high temperatures for the first week of January are in the lower 40s. On the 2nd, high temperatures included 69 degrees in Martinsburg, 71 degrees in Romney, 67 degrees in Keyser, 70 degrees in Petersburg, and 64 degrees at Sugar Grove. On the 3rd, high temperatures included 64 degrees in Martinsburg, 65 degrees in Romney, 63 degrees in Keyser, 68 degrees in Petersburg, and 58 degrees in Sugar Grove. On the 4th, high temperatures included 69 degrees in Martinsburg, 67 degrees in Romney, 65 degrees in Keyser, 67 degrees in Petersburg, and 62 degrees in Sugar Grove. During the evening of the 4th, a strong cold front moved across the region, bringing an end to the unseasonably warm weather.

**WVZ052-052**

**Berkeley**

<b>11</b>	<b>1433EST</b>								
	<b>1522EST</b>			<b>0</b>	<b>0</b>	<b>25K</b>			<b>High Wind (G50)<sup>M</sup></b>

58 MPH wind gust; Several trees downed and siding blown off home near Falling Waters

A strong cold front moved across the Eastern Panhandle during the morning of the 11th. As the front moved through, damaging winds were reported in some locations. A large billboard with a 100 foot tall metal pole supporting two tiers of billboards was downed onto a parking lot just off Interstate 81. Debris from the billboard damaged two parked cars. Scattered power outages were also reported in Berkeley County from trees falling onto power lines. The airport in Martinsburg recorded a wind gust of 42 MPH. A wind gust of 58 MPH was reported in Falling Waters at the top of a 35 foot tower. Several trees were downed in the vicinity and one home lost 6 feet of siding.

**WVZ050**

**Hampshire**

<b>13</b>	<b>1430EST</b>								
				<b>0</b>	<b>0</b>				<b>High Wind (G52)</b>

60 MPH gust downed trees.

A vigorous cold front moved across the Eastern Panhandle around midday on the 13th. Winds in excess of 55 MPH mixed down after the front moved through. A wind gust of 60 MPH was reported near Highview and trees were downed one mile south of town. A wind gust of 53 MPH was recorded in Martinsburg, and a 45 MPH gust was reported in Petersburg.

**WVZ049-051**

**Mineral - Morgan**

<b>16</b>	<b>1145EST</b>								
	<b>1215EST</b>			<b>0</b>	<b>0</b>	<b>30K</b>			<b>High Wind</b>

Trees and power lines downed.

A strong cold front moved across the Eastern Panhandle during the early afternoon of the 16th, producing wind gusts in excess of 55 MPH. Several trees were downed in Morgan County, and one home reported significant roof and shingle damage. Officials in Mineral County reported downed trees in Fort Ashby, Wiley Ford, and the Cross area near Elk Garden. Fire officials had to respond to several brush fires sparked by downed power lines throughout the afternoon.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



January 2000

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

<b>WVZ048&gt;049-052-054</b>	<b>Grant - Mineral - Berkeley - Pendleton</b>								
	<b>20</b>	<b>0000EST</b>			<b>0</b>	<b>0</b>			<b>Winter Storm</b>
		<b>1800EST</b>							

<b>WVZ050&gt;051-053-055</b>	<b>Hampshire - Morgan - Jefferson - Hardy</b>								
	<b>20</b>	<b>0000EST</b>			<b>0</b>	<b>0</b>			<b>Winter Weather</b>
		<b>1800EST</b>							

Low pressure moved from west to east across the Mid-Atlantic region on the 20th, dropping 3 to 7 inches of snow between midnight and mid-afternoon. Gusty winds of 35 to 45 MPH developed during the afternoon causing the snow to drift across roadways and reduce visibilities in open areas. The first snowstorm of the season resulted in a few minor traffic accidents. Snowfall totals included 3.5 inches in Berkeley Springs, 4.0 inches in Cacapon Bridge, 5.0 inches in Martinsburg, 4.5 inches in Franklin, 6.0 inches in Keyser, 4.0 inches in Moorefield, and 6.0 inches in Petersburg.

<b>WVZ048&gt;055</b>	<b>Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Pendleton - Hardy</b>								
	<b>21</b>	<b>0000EST</b>			<b>0</b>	<b>0</b>			<b>Extreme Windchill</b>
		<b>1000EST</b>							

During the morning of the 21st, northwest winds were blowing at 15 to 30 MPH. Temperatures across the region were in the low teens. This resulted in wind chill readings from 15 to 25 degrees below zero between midnight and 10 AM. The winds also caused snow that had fallen in the previous 24 hours to drift back onto roads, resulting in difficult driving conditions.

<b>WVZ048&gt;055</b>	<b>Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Pendleton - Hardy</b>								
	<b>22</b>	<b>0000EST</b>			<b>0</b>	<b>0</b>			<b>Extreme Cold</b>
		<b>1000EST</b>							

High pressure built into the Mid-Atlantic region on January 21st. A combination of clear skies, calm winds, and a fresh snowpack led to extremely cold overnight temperatures. On the morning of the 22nd, the mercury dropped into the single digits above and below zero. Low temperatures included 1 degree at Martinsburg, 10 degrees at Romney, 9 degrees at Keyser, -6 degrees in Bayard and Mathias, 3 degrees in Petersburg, -1 degree in Moorfield, and -2 degrees in Sugar Grove.

<b>WVZ051&gt;053</b>	<b>Morgan - Berkeley - Jefferson</b>								
	<b>25</b>	<b>0600EST</b>			<b>0</b>	<b>0</b>			<b>Winter Storm</b>
		<b>2359EST</b>							

Low pressure off Cape Hatteras rapidly intensified late on the 24th and developed into a nor'easter which tracked northward along the Eastern Seaboard on the 25th. Heavy snow and near-blizzard conditions were seen throughout the day east of the Appalachian Mountain ridges, resulting in hazardous travel conditions. Morgan, Berkeley, and Jefferson Counties were the only areas in the Eastern Panhandle to be greatly affected by the storm. Wind gusts of up to 45 MPH were recorded in these areas and some roads were drifted shut by blowing snow. Storm total snowfall included 10.0 inches in Falling Waters, 12.5 inches in Shenandoah Junction, 5.5 inches at Cacapon State Park, 6.0 inches in Bunker Hill, 7.0 inches in Martinsburg, 9.0 inches in Charles Town, and less than an inch in Berkeley Springs.

<b>WVZ048&gt;055</b>	<b>Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Pendleton - Hardy</b>								
	<b>27</b>	<b>1200EST</b>			<b>0</b>	<b>0</b>			<b>Extreme Cold</b>
	<b>29</b>	<b>1000EST</b>							

High pressure was centered directly over the Mid-Atlantic region on the 28th and 29th. The combination of clear skies, calm winds, and a snowpack led to unusually cold temperatures. On the morning of the 28th and 29th, readings dipped into the single digits above and below zero in many locations. Low temperatures on the 28th included 13 degrees at Martinsburg, 14 degrees at Romney, 12 degrees at Keyser, 0 degrees at Bayard, 5 degrees at Petersburg, 2 degrees at Moorefield, and 1 degree at Sugar Grove. On the 29th, low temperatures included 7 degrees at Martinsburg, 3 degrees at Charles Town, 7 degrees at Romney, 5 degrees at Keyser, -9 degrees at Bayard, 2 degrees at Petersburg and Mathias, and 1 degree at Sugar Grove.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



January 2000

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

**WEST VIRGINIA, East**

<b>WVZ048&gt;049-051&gt;054</b>	<b>Grant - Mineral - Morgan - Berkeley - Jefferson - Pendleton</b>								
	<b>30</b>	<b>0300EST</b>			<b>0</b>	<b>0</b>			<b>Winter Storm</b>
		<b>2000EST</b>							
<b>WVZ050-055</b>	<b>Hampshire - Hardy</b>								
	<b>30</b>	<b>0300EST</b>			<b>0</b>	<b>0</b>			<b>Winter Weather</b>
		<b>2000EST</b>							

Low pressure moved from the Lower Mississippi Valley northeast to the Mid-Atlantic region early on the 30th. The storm system tracked just southeast of the area, producing 3 to 8 inches of snowfall across the Eastern Panhandle. Storm total snowfall amounts included 7.0 inches in Martinsburg, 5.5 inches in Berkeley Springs, 7.0 inches in Charlesburg, 5.8 inches in Keyser, 4.0 inches in Moorefield, 3.5 inches in Romney, 3.8 inches in Petersburg, and 6.2 inches in Bayard.