



Time Path Path Number of Estimated December 2000

Local/ Length Width Persons Damage

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

DISTRICT OF COLUMBIA

DCZ001 District Of Columbia

2 0500EST 0 0 Strong Wind

A vigorous cold front crossed the metropolitan area between 6 and 8 AM on the 12th. As the front passed, northwest winds gusted to 45 MPH at Washington Reagan National Airport and didn't begin to subside until midday.

DCZ001 District Of Columbia

13 2000EST 0 0 Winter Weather 14 0800EST

A strong cold front brought chilly air into the region on the 12th. By the afternoon of the 13th, an upper level disturbance brought warm air into the mid levels of the atmosphere and caused snow that fell from the system to melt to rain on its way down. When the rain hit the ground where temperatures were at or just below freezing it formed ice on contact. However, since temperature in downtown Washington D.C. remained close to the freezing mark, ice accumulations were less than one quarter of an inch and only caused minor inconveniences such as slick roads and downed tree branches.

District Of Columbia

Countywide 16 2100EST 0 0 Heavy Rain 17 0300EST

DCZ001 District Of Columbia

17 1000EST 0 0 Strong Wind

A strong cold front moved across the region around midday on the 17th. Ahead of the front, heavy rain fell from showers and thunderstorms. Washington Reagan National Airport reported 1.06 inches of rainfall. Rainfall totals recorded by spotters across the District ranged from 1.18 to 2.64 inches. Behind the front, northwest winds increased to 30 to 40 MPH. National Airport recorded a wind gust of 45 MPH.

DCZ001 District Of Columbia

Low pressure moved across the region on the 19th and produced periods of light snow between 11 AM and 8 PM. A total of 2 inches of snow was reported at Washington Reagan National Airport and 1.5 inches was reported at the National Arboretum. Several fender benders were reported during the evening commute after roads became snow covered. After the snow ended, northwest winds gusted up to 30 MPH which caused some of the snow to drift back onto plowed roads overnight.

DCZ001 District Of Columbia

After a cold front moved across the region during the afternoon of the 22nd, northwest winds picked up to 20 to 30 MPH. Temperatures dropped into the teens which created wind chills between -10 and -20 degrees. The winds finally subsided during the early morning hours of the 23rd.

MARYLAND, Central

MDZ007 Harford

10 1300EST 0 0 Winter Weather

A weak low pressure system moved across the area during the afternoon and evening of the 10th. Light freezing rain and sleet fell across the county. Roads became slippery and several traffic accidents were reported during the morning commute on the 11th. A few slippery roads were also reported in Carroll and Baltimore Counties.





Time Path Path Number of Estimated December 2000
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

MARYLAND, Central

MDZ002>003-005-014

Allegany - Washington - Carroll - Anne Arundel

12 0400EST

0 0 120K

High Wind (G55)

MDZ004-006>007-009>011-013-016>018 ${\bf Frederick - Northern\ Baltimore - Harford - Montgomery - Howard - Southern\ Baltimore - Prince\ Georges - Charles - St.\ Mary'S - Calvert$

12 0400EST 0 0 35K Strong Wind

A vigorous cold front crossed the region between 4 AM and 9 AM on the 12th. As the front passed, northwest winds gusted to between 40 and 60 MPH and didn't begin to subside until midday. In Allegany County, a wind gust of 54 MPH was recorded in Cumberland and a gust of 52 MPH was recorded in Frostburg. Trees and power lines were downed and windows were blown out across the county. In Cumberland, a handful of trees and power lines were downed and roofing material blew off a building. In Frostburg, a metal shed was blown off its foundation into a parked car, light pole globes were broken, and vent slats on city hall were damaged. A 70-foot-tall communications tower on the peak of Dan's Mountain near Frostburg was blown over. The gusts that blew over the structure were so powerful that the guide wires securing the tower pulled concrete blocks out of the building to which they were anchored. In Washington County, winds gusted to 47 MPH in Hagerstown, 52 MPH in Sharpsburg, and 59 MPH in Williamsport. A directional sign was blown onto Interstate 70. Trees and wires were reported downed on Oreback Road, Dam No. 4 Road and in Fairplay.

In Frederick County, large tree limbs were downed onto Route 15 at Point of Rocks. A wind gust of 44 MPH was recorded at the Frederick Airport. In Montgomery County, trees were downed near Barnesville and Dickerson Roads and on Monocacy Road. In Prince George's County, wind gusts included 53 MPH at Andrews AFB and 40 MPH at South Bowie. A total of 3000 customers lost power in the Maryland suburbs of Washington D.C. In Carroll County, a gust of 63 MPH was recorded at Manchester and a gust of 57 MPH was recorded at Millers. Over 3000 customers lost power after power lines were damaged. In Howard County, winds gusted to 46 MPH in Laurel.

In Baltimore County, Key Bridge was closed to large trucks and motorcycles due to the high winds. A wind gust of 52 MPH was recorded at Martin State Airport and a gust of 45 MPH was reported in Parkton. In Owings Mills, winds gusting to up to 48 MPH damaged a building under construction and downed many trees. Nearly 12,000 customers in the Baltimore metropolitan area lost power. In Anne Arundel County, measured wind gusts included 60 MPH at Rivera Beach, 54 MPH at Baltimore/Washington International Airport, and 41 MPH at Millersville. In Harford County, Aberdeen Proving Grounds reported a wind gust of 43 MPH. Fallen trees knocked out power to a Havre de Grace school and almost 5000 other customers across the county. Several roads across the county including Route 543 and Boggs Road were closed by fallen trees. In Calvert County, utility poles were downed along Route 260, closing the highway in both directions. In St. Mary's County, winds gusted to 40 MPH at Patuxent Naval Station.

MDZ002-006>007-010-

Allegany - Northern Baltimore - Harford - Howard - Prince Georges - Charles

013-016

13 1800EST 0 0 Winter Weather 14 0800EST

MDZ003>005-009

Washington - Frederick - Carroll - Montgomery

13 1800EST 0 0 Ice Storm

A strong cold front brought chilly air into the region on the 12th. By the afternoon of the 13th, an upper level disturbance brought warm air into the mid levels of the atmosphere and caused snow that fell from the system to melt to rain on its way down. When the rain hit the ground where temperatures were below freezing, ice accumulated. From Carroll and Montgomery Counties westward, the ice accumulated to between one quarter and one half inch. The wight of the ice brought down some trees, branches, telephone lines, and power lines. A few road were also closed by downed trees. At least 26,000 Central Maryland customers lost power as a





		Time		Path	Number of		Estimated		December 2000	
		Local/	Length	Width	Persons		Damage			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

MARYLAND, Central

direct result of the storm. Roads were turned into sheets of ice and several traffic accidents were reported. East of this area temperatures remained close to the freezing mark so ice accumulations were less than one quarter of an inch and only caused minor inconveniences. Because of slightly cooler air, Allegany County received mainly sleet and light snow with very little ice

Anne Arundel County						
Countywide	16 17	2100EST 0300EST		0	0	Heavy Rain
Baltimore County						
Countywide	16 17	2100EST 0300EST		0	0	Heavy Rain
Baltimore City (C)						
Countywide	16 17	2100EST 0300EST		0	0	Heavy Rain
Carroll County						
Countywide	16 17	2100EST 0300EST		0	0	Heavy Rain
Carroll County						
Countywide	16 17	2100EST 0300EST		0	0	Heavy Rain
Charles County						
Countywide	16 17	2100EST 0300EST		0	0	Heavy Rain
Frederick County						
Countywide	16 17	2100EST 0300EST		0	0	Heavy Rain
Howard County						
Countywide	16 17	2100EST 0300EST		0	0	Heavy Rain
Prince George'S County						
Countywide	16 17	2100EST 0300EST		0	0	Heavy Rain
St. Mary'S County						
Countywide	16 17	2100EST 0300EST		0	0	Heavy Rain
MDZ004	Frederick					
	17 18	0615EST 0600EST		0	0	Flood
	The N	Aonocacy River ne	ear Frederick crested at 15.8	K9 teet		

The Monocacy River near Frederick crested at 15.89 feet.

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

A strong cold front moved across the region around midday on the 17th. Ahead of the front, heavy rain fell from showers and thunderstorms. In St. Mary's County, 2.28 inches fell in Morganza and 2.22 inches fell in Oraville. In Charles County, 2.50 inches fell in Waldorf and 2.26 inches was recorded in Bryan's Road. In Calvert County, between 2.5 and 3.5 inches was recorded across the northwest portion of the county. In Prince George's County 2.55 inches fell at Andrews AFB, 1.71 inches fell in South Bowie, and 1.55 inches fell in Oxon Hill. In Anne Arundel County, 2.50 inches fell in Annapolis, 3.30 inches fell at Park West, 2.20 inches fell in Jessup, 1.87 inches fell in Rivera Beach, and 1.69 inches fell at Jug Bay Wetlands. In Howard County, 3.81 inches fell in Ora, 2.34 inches fell in Columbia, and 2.26 inches fell in Laurel. Flooding was reported along Hammond's Branch

In Baltimore County, 2.32 inches fell at Parkton, 2.20 inches fell at Baptist Home, 2.15 inches fell in Owings Mills, and 1.60 inches fell in Freeland. Spotters reported that both Gwynns Falls and Jones Falls overflowed their banks temporarily. Sections of Route 140 (Reisterstown Road) and Owings Mills Boulevard were closed by high water. In Carroll County, 1.81 inches fell in Westminster. In Frederick County, 1.60 inches fell in Thurmont. Because of the heavy downpours, the Monocacy River near Frederick rose above its flood stage of 15 feet between 6 PM on the 17th and 6 AM on the 18th. The river crested at 15.89 feet at 1:30 AM on the 18th. Water began to inundate Lillypond Fish Hatchery and the sewage treatment plant. Backwater flooding occurred along Carroll Creek which sent water onto Gashouse Pike. Israel Creek also overflowed onto Stauffer Road.





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

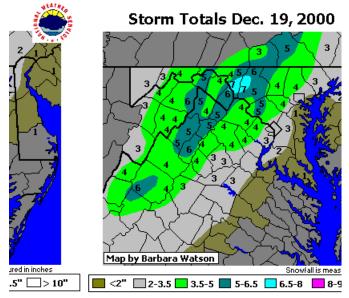
MARYLAND, Central

Behind the front, northwest winds increased to 30 to 45 MPH. Measured wind gusts included 51 MPH at Andrews AFB, 48 MPH at Martin State Airport just east of Baltimore, 46 MPH at Hagerstown, 45 MPH at Damascus in Montgomery County, 44 MPH at Oraville in St. Mary's County, 43 MPH at Bryan's Road and St. Indigoes in Charles County and at Baltimore/Washington International Airport, 41 MPH at Hollywood and Ridge in St. Mary's County, 40 MPH at Frederick and Cumberland, and 39 MPH at Westminster

MDZ002-006>007-010>011-013-016 Allegany - Northern Baltimore - Harford - Howard - Southern Baltimore - Prince Georges - Charles

MDZ003>005-009

Washington - Frederick - Carroll - Montgomery



Regional Storm Total Snowfall Map from December 19, 2000 (in inches).

Low pressure moved across the region on the 19th and produced periods of light to moderate snow between 4 AM and 8 PM. Snowfall totals ranged from 1 to 7 inches with the highest amounts falling across Frederick and Washington Counties and the smallest accumulations right along the Chesapeake Bay. Several traffic accidents were reported during the evening commute after roads became snow covered. After the snow ended, northwest winds gusted up to 30 MPH which caused some of the snow to drift back onto plowed roads overnight.

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

22 1500EST 0 0 Extreme Windchill 23 0600EST

After a cold front moved across the region during the afternoon of the 22nd, northwest winds picked up to 20 to 30 MPH. Temperatures dropped into the teens which created wind chills between -10 and -20 degrees. As the winds subsided during the early morning hours of the 23rd, temperatures ranged from the single digits above zero to the lower teens.





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

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

A vigorous cold front crossed the region between 4 AM and 8 AM on the 12th. As the front passed, northwest winds gusted up to 45 MPH and didn't begin to subside until midday. In Loudoun County, gusty winds downed power lines north of Leesburg. A wind gust of 45 MPH was recorded at Dulles International Airport. In Prince William County, tree limbs were downed onto power lines and 3000 customers lost power. Winds also blew over a hot grill and started a deck fire in Lake Ridge. In Arlington, a wind gust of 45 MPH was reported at Washington Reagan National Airport. In Fairfax County, a wind gust of 46 MPH was recorded. In Frederick County, numerous power line failures were reported. Downed trees caused power outages in 10 different areas, including Winchester. A wind gust of 46 MPH was recorded at the Winchester Airport. In Warren County, 6 trees were blown down at Massanutten Mountain Drive and High Knob Road. One downed power line sparked a brush fire. In Greene County, three utility poles were downed along Route 33 in Ruckersville.

VAZ021-036-054>055-057 Highland - Nelson - Arlington - Stafford - King George

13 1800EST 0 0 Winter Weather 14 0800EST

VAZ025>031-037>042-050>053-056 Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Spotsylvania

13 1800EST 0 0 Ice Storm

14 0800EST

A strong cold front brought chilly air into the region on the 12th. By the afternoon of the 13th, an upper level disturbance brought warm air into the mid levels of the atmosphere and caused snow that fell from the system to melt to rain on its way down. When the rain hit the ground where temperatures were below freezing, ice accumulated. Across the Shenandoah Valley and much of Northern Virginia, the ice accumulated to between one quarter and three quarters of an inch. The weight of the ice brought down some trees, branches, telephone lines, and power lines. Nearly 50,000 customers lost power across Northern Virginia for a short time. Roads were turned into sheets of ice and several traffic accidents were reported. Along the Interstate 81 corridor, law enforcement advised drivers to remain at home overnight after road conditions rapidly deteriorated. Near the Potomac River south of Washington D.C. and across the Central Piedmont, temperatures remained closed to the freezing mark so ice accumulations were less than one quarter of an inch and only caused minor inconveniences.

Culpeper County Countywide	16 17	2100EST 0300EST	0	0	Heavy Rain
Fauquier County Countywide	16 17	2100EST 0300EST	0	0	Heavy Rain
Loudoun County Countywide	16 17	2100EST 0300EST	0	0	Heavy Rain
Nelson County Countywide	16 17	2100EST 0300EST	0	0	Heavy Rain
Orange County Countywide	16 17	2100EST 0300EST	0	0	Heavy Rain
Rappahannock County Countywide	16 17	2100EST 0300EST	0	0	Heavy Rain





Time Path Path Number of Estimated December 2000
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

VIRGINIA, North

VAZ028-031-042-053>054 Frederick - Clarke - Loudoun - Fairfax - Arlington

A strong cold front moved across the region around midday on the 17th. Ahead of the front, heavy rain fell from showers and thunderstorms. In Loudoun County, rainfall totals included 2.00 inches in Lincoln and 1.98 inches in Leesburg. In Fauquier County, 1.70 inches fell in Remington. In Rappahannock County, 1.90 inches fell in Castleton. In Culpeper County, 2.47 inches fell at Culpeper and 2.00 inches fell at Boston. In Orange County, 1.87 inches was reported in Somerset. In Nelson County, 1.56 inches was reported at Devils Knob.

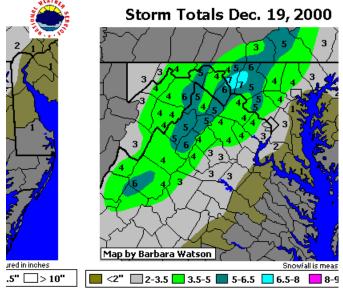
Behind the front, northwest winds increased to 25 to 40 MPH. Measured wind gusts across northern Virginia included 46 MPH at Winchester, 45 MPH at Washington Reagan National Airport, 44 MPH at Dulles International Airport, 40 MPH at Ft. Belvoir, 39 MPH at Quantico Marine Base, and 36 MPH at Fredericksburg. Wind gusts were lower across the Central Piedmont and Southern Shenandoah Valley.

VAZ021-026-036>042-050>056 Highland - Rockingham - Nelson - Albemarle - Greene - Madison - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Arlington - Stafford - Spotsylvania

VAZ025-027>031

Augusta - Shenandoah - Frederick - Page - Warren - Clarke

Winter Storm



Regional Storm Total Snowfall Map for Dec. 19, 2000 (in inches)

Low pressure moved across the region on the 19th and produced periods of light to moderate snow between 4 AM and 8 PM. Snowfall totals ranged from 2 to 6 inches with the highest amounts falling along the Blue Ridge Mountains and across the Shenandoah Valley. Several traffic accidents were reported during the evening commute after roads became snow covered. After the snow ended, northwest winds gusted up to 30 MPH which caused some of the snow to drift back onto plowed roads overnight.





December 2000 Time Local/ Path Length Path Number of Estimated Width Damage Persons VIRGINIA, North VAZ021-025>031-Highland - Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Nelson - Albemarle - Greene -036>042-050>057 Madison - Rappahannock - Fauquier - Loudoun - Orange - Culpeper - Prince William - Fairfax - Arlington - Stafford -Spotsylvania - King George 1500EST 22 23 **Extreme Windchill** 0600EST After a cold front moved across the region during the afternoon of the 22nd, northwest winds picked up to 20 to 30 MPH. Temperatures dropped into the teens which created wind chills between -10 and -20 degrees. As the winds subsided during the early morning hours of the 23rd, temperatures ranged from the single digits above zero to the low teens. WEST VIRGINIA, East WVZ048>049-052 Grant - Mineral - Berkeley 0300EST 1200EST High Wind (G72)^M WVZ050>051-053>055 Hampshire - Morgan - Jefferson - Pendleton - Hardy Strong Wind 1200EST A vigorous cold front crossed the region between 3 and 6 AM on the 12th. As the front passed, northwest winds gusted to between 45 and 65 MPH and didn't begin to subside until midday. One anemometer positioned 75 feet above the ground in Keyser recorded a wind gust of 83 MPH at 4 AM. A total of 31,000 customers across the Eastern Panhandle lost power after trees and power lines were downed. In Grant County, a wind gust of 64 MPH was recorded at the Petersburg Airport. In Hardy County, a weather observer noted high wind damage near Moorfield. In Berkeley County, a wind gust of 66 MPH was recorded in Falling Waters and a gust of 55 MPH was reported at the Martinsburg Airport. WVZ048-054 **Grant - Pendleton** 1800EST 0500EST Winter Weather WVZ049>053-055 Mineral - Hampshire - Morgan - Berkeley - Jefferson - Hardy Ice Storm A strong cold front brought chilly air into the region on the 12th. By the afternoon of the 13th, an upper level disturbance brought warm air into the mid levels of the atmosphere and caused snow that fell from the system to melt to rain on its way down in all but the highest elevations. In the higher elevations, most of the precipitation fell as sleet or light snow with accumulations of 2 inches or less. When the liquid precipitation hit the cold ground east of the ridges it turned to ice on impact and accumulated to between one quarter and three quarters of an inch. The weight of the ice brought down some trees, branches, and power lines. Roads turned to sheets of ice and several traffic accidents were reported. WVZ048>053 Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson 1000EST 1900EST Strong Wind A strong cold front crossed the region during the late morning hours of the 17th. This caused northwest winds to gust to between 30 and 45 MPH. Measured wind gusts included 45 MPH at Petersburg in Grant County and 41 MPH at Martinsburg in Berkeley County. In addition, a total of 3.1 inches of lake effect snow fell at Bayard in Grant County right atop the Allegany Front between 10 AM on the 17th and 6 AM on the 18th. WVZ048>049-054>055 Grant - Mineral - Pendleton - Hardy 0400EST Winter Weather

0

Winter Storm

1500EST

0400EST

1500EST

Hampshire - Morgan - Berkeley - Jefferson

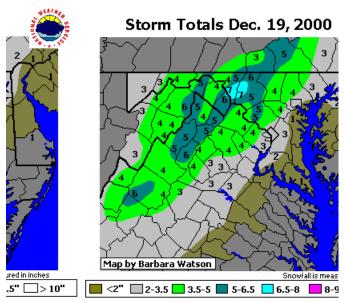
WVZ050>053





Time Path Path Number of Estimated December 2000 Local/ Length Width Persons Damage

WEST VIRGINIA, East



Regional Storm Total Snowfall Reports from December 19th, 2000 (in inches).

Low pressure moved across the region on the 19th and produced periods of light to moderate snow between 4 AM and 8 PM. Snowfall totals ranged from 3 to 6 inches with the highest amounts falling across the eastern tip of the panhandle. Several traffic accidents were reported during the evening commute after roads became snow covered. After the snow ended, northwest winds gusted up to 30 MPH which caused some of the snow to drift back onto plowed roads overnight.

WVZ048>055

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

22 1500EST 0 0 Extreme Windchill 23 0600EST

After a cold front moved across the region during the afternoon of the 22nd, northwest winds picked up to 20 to 30 MPH. Temperatures dropped into the teens which created wind chills between -10 and -20 degrees. As the winds subsided during the early morning hours of the 23rd, temperatures dropped into the single digits above zero.

WVZ048

Grant

30 2100EST 0 0 Winter Storm 31 2359EST

Up to 9 inches of snow fell along the Allegany Front.

Northwest winds blowing off of Lake Erie caused late effect snow to fall along the Allegany Front in Western Grant County from the evening of the 30th through midnight on the 31st. A total of 9.2 inches of snow accumulated in Bayard. Snow totals were much less in Mt. Storm and no snow fell as far east as Petersburg.