



National Weather Service

Storm Data and Unusual Weather Phenomena



January 2004

| 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 |
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

MARYLAND, Central

MDZ009-013

Montgomery - Prince Georges

| | | | | |
|-----------|----------------|----------|----------|---------------------------|
| 08 | 1700EST | 0 | 0 | Winter Weather/Mix |
| 09 | 1400EST | | | |

An area of low pressure tracked across Central Virginia on the 8th and 9th. This system produced up to two inches of snow across Northern Virginia and lesser amounts over North Central Maryland and the Baltimore Metropolitan area. The dusting of snow caused widespread traffic problems as a light glaze formed on the roads. Numerous automobile accidents were reported, and schools either closed or opened two hours late on the 9th.

MDZ002>006-011-013>014

Allegany - Washington - Frederick - Carroll - Northern Baltimore - Southern Baltimore - Prince Georges - Anne Arundel

| | | | | |
|-----------|----------------|----------|----------|--------------------------------|
| 10 | 0100EST | 0 | 0 | Extreme Cold/Wind Chill |
| | 1100EST | | | |

Very cold Arctic air settled over Western Maryland, North Central Maryland and the Baltimore Metropolitan area. The minimum temperatures ranged from the single digits to the lower teens, and north winds measured 10 to 15 mph. This produced wind chills on the average of 10 degrees below zero. The City of Baltimore issued a "Code Blue" and opened the Federal Street shelter because of the bitter cold air. There were dozens of cases of broken water mains and pipes.

MDZ002>006-011-013>014

Allegany - Washington - Frederick - Carroll - Northern Baltimore - Southern Baltimore - Prince Georges - Anne Arundel

| | | | | |
|-----------|----------------|----------|----------|--------------------------------|
| 15 | 2300EST | 0 | 0 | Extreme Cold/Wind Chill |
| 16 | 1100EST | | | |

A fast moving storm system brought light snow to the region on the 14th and 15th. Western Maryland counties received one to two inches of snow, while only a trace of snowfall was reported in North Central Maryland, the Baltimore Metropolitan area, and Lower Southern Maryland. There was some very cold air behind this system. Minimum temperatures across the region were in the single digits and teens. Strong northwest and west winds (20 to 25 mph with gusts to 35 mph) produced wind chills of 5 to 10 below zero on the night of the 15th and the early morning of the 16th. On a different note the winds also downed power lines in Baltimore County. Reports from a local power company show 5 thousand customers in the eastern part of Baltimore County were without heat and electricity for about 3 hours during this cold spell.

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

Allegany - Washington - Frederick - Carroll - Northern Baltimore - Harford - Southern Baltimore - Prince Georges - Anne Arundel - Charles - St. Mary'S - Calvert

| | | | | |
|-----------|----------------|----------|----------|---------------------------|
| 17 | 1800EST | 0 | 0 | Winter Weather/Mix |
| 18 | 1600EST | | | |

Two areas of low pressure merged over the region and produced a wintry mix of snow and freezing rain. Snow amounts from one quarter to two inches were recorded across Maryland from Allegany down to St. Mary's County. There were also reports of ice accumulations up to two tenths inch. Law Enforcement officers and Emergency personnel responded to several automobile accidents.

MDZ002>004

Allegany - Washington - Frederick

| | | | | |
|-----------|----------------|----------|----------|--------------------------------|
| 23 | 0500EST | 0 | 0 | Extreme Cold/Wind Chill |
| | 1000EST | | | |

An arctic front ushered more cold air into the area on the 22nd and 23rd. Minimum temperatures were in the lower to mid teens. Strong north winds of 15 to 25 mph with gusts near 30 mph helped to produce wind chills of 5 to 10 below zero.



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|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

MARYLAND, Central

MDZ002

Allegany

| | | | | | | | | | |
|----|---------|--|--|--|---|---|--|--|--------------------------------|
| 23 | 0500EST | | | | 0 | 0 | | | Extreme Cold/Wind Chill |
| | 1000EST | | | | | | | | |

An arctic front ushered more cold air into the area on the 22nd and 23rd. Minimum temperatures were in the lower to mid teens. Strong North winds of 15 to 25 mph with gusts near 30 mph helped to produce wind chills of 5 to 10 below zero.

MDZ002>005

Allegany - Washington - Frederick - Carroll

| | | | | | | | | | |
|----|---------|--|--|--|---|---|--|--|---------------------|
| 23 | 1900EST | | | | 0 | 0 | | | Winter Storm |
| | 1200EST | | | | | | | | |

An area of low pressure developed over the Lower Great Lakes brought more snow to the region on the 23rd and the 24th. The low tracked across West Virginia, Virginia and Maryland. Snowfall totals were highest along the Maryland/Pennsylvania border. Five to six inches of snow was reported across North Central and Western Maryland. Lesser amounts of 2 to 3 inches were recorded in Harford, Northern Baltimore, Southern Baltimore and the City of Baltimore.

MDZ002>007-009>011-013>014

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

| | | | | | | | | | |
|----|---------|--|--|--|---|---|--|--|---------------------|
| 25 | 1200EST | | | | 1 | 0 | | | Winter Storm |
| | 1000EST | | | | | | | | |

An area of low pressure developed off the coast of North Carolina and moved north. This storm produced widespread snow, sleet and freezing drizzle over the region. Six to eight inches of snow fell across Maryland from Allegany to Anne Arundel County. The snow mixed with sleet and finally changed over to freezing drizzle before tapering off. A Harford County man died on the 26th after being struck by an automobile as he cleared his driveway. Several other accidents with minor injuries were reported to Emergency Operations Centers. Many school districts closed due to the inclement weather. M57OU

MDZ016>018

Charles - St. Mary'S - Calvert

| | | | | | | | | | |
|----|---------|--|--|--|---|---|--|--|---------------------------|
| 25 | 1200EST | | | | 0 | 0 | | | Winter Weather/Mix |
| | 1000EST | | | | | | | | |

An area of low pressure developed off the coast of North Carolina and moved north. This system produced widespread snow, sleet and freezing drizzle over the region. Three to four inches of snow fell over Lower Southern Maryland. The snow mixed with sleet and finally changed over to freezing drizzle before tapering off. Several other minor accidents occurred according to Emergency Operations Centers. Most school districts closed.

MDZ002-006

Allegany - Northern Baltimore

| | | | | | | | | | |
|----|---------|--|--|--|---|---|--|--|---------------------|
| 26 | 1530EST | | | | 0 | 0 | | | Winter Storm |
| | 2230EST | | | | | | | | |

An area of low pressure moved across the region on the 26th and 27th. This storm produced a second round of freezing rain and snow. Five additional inches of snow fell across Allegany County in Western Maryland. Further east one quarter inch of ice accumulated in Northern Baltimore. Due to the inclement weather, Federal agencies in the Washington DC Metropolitan area closed three hours early on the 27th. Several minor accidents were blamed on the ice as well as scattered power outages. 70,000 customers in Maryland were without power at some point in the storm. Some schools were closed again on the 27th.

MDZ005-007-009>011

Carroll - Harford - Montgomery - Howard - Southern Baltimore

| | | | | | | | | | |
|----|---------|--|--|--|---|---|--|--|---------------------------|
| 26 | 1530EST | | | | 1 | 0 | | | Winter Weather/Mix |
| | 2230EST | | | | | | | | |

An area of low pressure moved across the region on the 26th and 27th. This system produced a second round of freezing rain and snow. One to two additional inches of snow fell across the Baltimore Metropolitan area as well as one tenth inch of ice. Ice covered



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|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

MARYLAND, Central

sidewalks and roadsides were blamed for the death of a pedestrian near Baltimore City. The man was struck and killed by a vehicle as he walked in the street because the sidewalks were slick and dangerous. Scattered power outages and other minor injuries were also blamed on the ice. Federal agencies in the Washington DC Metropolitan area closed three hours early on the 27th due to the inclement weather. Schools were closed again on the 27th.

M52OU

MDZ007

Harford

| | | | | | | | | | |
|-----------|----------------|--|--|--|----------|----------|-------------|--|---------------------------|
| 28 | 1200EST | | | | 0 | 0 | 7.5K | | Strong Wind (EG35) |
|-----------|----------------|--|--|--|----------|----------|-------------|--|---------------------------|

High winds and ice laden power lines led to wide spread outages across Harford County on the 28th. Nearly 70 thousand customers were without power. Wind gusts up to 40 mph were reported across Northeast Maryland. Emergency shelters were opened, and power was finally restored late in the evening

MDZ002>007

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

| | | | | | | | | | |
|-----------|----------------|--|--|--|----------|----------|--|--|--------------------------------|
| 31 | 0300EST | | | | 0 | 0 | | | Extreme Cold/Wind Chill |
|-----------|----------------|--|--|--|----------|----------|--|--|--------------------------------|

Very cold arctic air combined with strong Northwest winds to produce dangerous wind chills. Minimum temperatures were in the lower teens. Wind speeds averaged 20 mph. Gusts of 30 mph were observed. This produced wind chill values of five to ten degrees below zero.

VIRGINIA, North

VAZ021-025>026-036>038-042-053>055

Highland - Augusta - Rockingham - Nelson - Albemarle - Greene - Loudoun - Fairfax - Arlington - Stafford

| | | | | | | | | | |
|-----------|----------------|--|--|--|----------|----------|--|--|---------------------------|
| 08 | 1700EST | | | | 0 | 0 | | | Winter Weather/Mix |
|-----------|----------------|--|--|--|----------|----------|--|--|---------------------------|

An area of low pressure tracked across Central and Northern Virginia on the 8th and 9th. This system produced one to two inches of snow across the Shenandoah Valley and the Central Foothills of Virginia. Other areas of Northern Virginia reported a half inch or less of snow. This light snow caused widespread traffic problems. Numerous automobile accidents were reported, and schools either closed on Friday the 9th or opened two hours late.

VAZ042-053>055-057

Loudoun - Fairfax - Arlington - Stafford - King George

| | | | | | | | | | |
|-----------|----------------|--|--|--|----------|----------|--|--|--------------------------------|
| 10 | 0100EST | | | | 0 | 0 | | | Extreme Cold/Wind Chill |
|-----------|----------------|--|--|--|----------|----------|--|--|--------------------------------|

Very cold Arctic air settled over the portions of Northern Virginia. The minimum temperatures ranged from the lower teens to the digits, and north winds averaged 10 to 15 mph. This produced wind chills on the average of 10 degrees below zero. There were dozens of cases of broken water mains and water pipes due to the extremely cold temperatures.

VAZ042-053>054

Loudoun - Fairfax - Arlington

| | | | | | | | | | |
|-----------|----------------|--|--|--|----------|----------|--|--|--------------------------------|
| 15 | 2300EST | | | | 0 | 0 | | | Extreme Cold/Wind Chill |
|-----------|----------------|--|--|--|----------|----------|--|--|--------------------------------|

A fast moving storm system brought light snow to the region on the 14th and 15th. Most areas of Northern Virginia only received a trace of snowfall. However, there was some very cold air behind this system. Minimum temperatures across the region were in the single digits and teens. Strong northwest and west winds (20 to 25 mph with gusts to 35 mph) produced wind chills of 5 to 10 below zero on the night of the 15th and the early morning of the 16th

VAZ042-053>054

Loudoun - Fairfax - Arlington

| | | | | | | | | | |
|-----------|----------------|--|--|--|----------|----------|--|--|---------------------------|
| 17 | 1800EST | | | | 0 | 0 | | | Winter Weather/Mix |
|-----------|----------------|--|--|--|----------|----------|--|--|---------------------------|

Two areas of low pressure merged over the region to produce a mix of snow and freezing rain on the 17th and 18th. Snowfall



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January 2004

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

VIRGINIA, North

amounts from one quarter to one inch were recorded in Northern Virginia. Ice accumulations of one tenth inch were also reported. Several automobile accidents occurred when motorists lost control of their vehicles when they encountered glazed pavements.

VAZ028

Frederick

| | | | | | | | | | |
|-----------|----------------|--|--|--|---|---|--|--|---------------------|
| 23 | 1900EST | | | | | | | | |
| 24 | 1200EST | | | | 0 | 0 | | | Winter Storm |

An area of low pressure developed over the Lower Great Lakes and brought more snow to the region on the 23rd and 24th. The low tracked across West Virginia, Virginia and Maryland. Five inches of snow was reported across Northern Frederick County.

VAZ021-025>031-037>038-040>042-053>054

Highland - Augusta - Rockingham - Shenandoah - Frederick - Page - Warren - Clarke - Albemarle - Greene - Rappahannock - Fauquier - Loudoun - Fairfax - Arlington

| | | | | | | | | | |
|-----------|----------------|--|--|--|---|---|--|--|---------------------|
| 25 | 1200EST | | | | | | | | |
| 26 | 1000EST | | | | 1 | 0 | | | Winter Storm |

An area of low pressure developed off the coast of North Carolina and tracked north. This storm produced widespread snow, sleet and freezing drizzle over the region. Five to six inches of snow fell over Northern and Central Virginia. The snow mixed with sleet and finally changed over to freezing drizzle before tapering off. A man died in Fairfax County when his vehicle slammed into the back of a snow plow. Several other minor accidents occurred according to Emergency Operations Centers. Dozens of school districts closed.

M43VE

VAZ036-039-050>051-055>057

Nelson - Madison - Orange - Culpeper - Stafford - Spotsylvania - King George

| | | | | | | | | | |
|-----------|----------------|--|--|--|---|---|--|--|---------------------------|
| 25 | 1200EST | | | | | | | | |
| 26 | 1000EST | | | | 0 | 0 | | | Winter Weather/Mix |

An area of low pressure developed off the coast of North Carolina and tracked north. This storm produced widespread snow, sleet and freezing drizzle over the region. Two to four inches of snow fell over the Central Foothills and the Northern Piedmont of Virginia. The snow mixed with sleet and finally changed over to freezing drizzle before tapering off. Several other minor accidents occurred according to Emergency Operations Centers. Dozens of school districts closed.

VAZ042-053>054

Loudoun - Fairfax - Arlington

| | | | | | | | | | |
|-----------|----------------|--|--|--|---|---|--|--|---------------------------|
| 26 | 1530EST | | | | | | | | |
| 27 | 2230EST | | | | 2 | 0 | | | Winter Weather/Mix |

An area of low pressure moved across the area on the 26th and 27th. This low produced a second round of freezing rain and snow across the region. Due to the inclement weather Federal agencies in the Washington DC Metropolitan area closed three hours early on the 27th. Two fatalities were reported in Loudoun County from separate automobile accidents. The motorists died when their vehicles rear ended snow plows. Other less severe injuries were also blamed on the ice, along with scattered power outages and breaks in natural gas services. Some schools were closed again on the 27th.

M45VE, M38VE

VAZ042

Loudoun

| | | | | | | | | | |
|-----------|----------------|--|--|--|---|---|--|--|--------------------------------|
| 31 | 0300EST | | | | | | | | |
| | 1000EST | | | | 0 | 0 | | | Extreme Cold/Wind Chill |

Very cold arctic air combined with strong Northwest winds to produce dangerous wind chills. Minimum temperatures were in the lower teens. Wind speeds averaged 20 mph. Gusts of 30 mph were observed. This produced wind chill values of five to ten degrees below zero.



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January 2004

| 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 |
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

WEST VIRGINIA, East

| | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------|--|--|----------|----------|--|--|--------------------------------|
| WVZ054 | Pendleton | 08 1700EST 09 1400EST | | | 0 | 0 | | | Winter Weather/Mix |
| <p>An area of low pressure tracked across Southern West Virginia and Central Virginia on the 8th and 9th. This system produced an inch of snow or less across the Panhandle of Eastern West Virginia and one to two inches of snow across portions of Northern Virginia. The small amounts of snow caused widespread traffic problems. Numerous automobile accidents were reported.</p> | | | | | | | | | |
| WVZ051>053 | Morgan - Berkeley - Jefferson | 10 0100EST 1100EST | | | 0 | 0 | | | Extreme Cold/Wind Chill |
| <p>Very cold Arctic air settled over the portions of Northern and Central Virginia. The minimum temperatures were in the lower teens and single digits with North winds averaging 10 to 15 mph. This produced wind chills on the average of 10 degrees below zero. There were dozens of cases of broken water mains and pipes due to the extremely cold temperatures.</p> | | | | | | | | | |
| WVZ051>053 | Morgan - Berkeley - Jefferson | 15 2300EST 16 1100EST | | | 0 | 0 | | | Extreme Cold/Wind Chill |
| <p>A fast moving storm system brought light snow to the region on the 14th and 15th. The Eastern Panhandle of West Virginia only received one half to an inch of snowfall. There was some very cold air behind this system. Minimum temperatures across the region were in the single digits and teens. Strong northwest and west winds (15 to 20 mph with gusts to 30 mph) produced wind chills of 5 to 10 below zero on the night of the 15th and the early morning of the 16th.</p> | | | | | | | | | |
| WVZ051>053 | Morgan - Berkeley - Jefferson | 17 1800EST 18 1600EST | | | 0 | 0 | | | Winter Weather/Mix |
| <p>Two areas of low pressure merged over the region to produce a mix of snow and freezing rain. Snow amounts of two to three inches were recorded over the Panhandle of Eastern West Virginia. There were also reports of ice accumulations up to two tenths incl.</p> | | | | | | | | | |
| WVZ052 | Berkeley | 23 0500EST 1000EST | | | 0 | 0 | | | Extreme Cold/Wind Chill |
| <p>An arctic front ushered more cold air into the area on the 22nd and 23rd. Minimum temperatures were in the lower to mid teens. Strong north winds of 15 to 25 mph with gusts near 30 mph helped to produce wind chills of 5 to 10 degrees below zero.</p> | | | | | | | | | |
| WVZ048>053 | Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson | 23 1900EST 24 1200EST | | | 0 | 0 | | | Winter Storm |
| <p>An area of low pressure developed over the Lower Great Lakes and brought more snow to the region on the 23rd and the 24th. The low tracked across West Virginia, Virginia and Maryland. Snowfall amounts across Eastern West Virginia averaged five to seven inches.</p> | | | | | | | | | |
| WVZ048>055 | Grant - Mineral - Hampshire - Morgan - Berkeley - Jefferson - Pendleton - Hardy | 25 1200EST 26 1000EST | | | 0 | 0 | | | Winter Storm |
| <p>An area of low pressure developed off the coast of North Carolina on the 25th and 26th. This storm produced widespread snow, sleet and freezing drizzle over the region. Five to seven inches of snow fell across Eastern West Virginia. The snow mixed with sleet and finally changed over to freezing drizzle before tapering off. Several accidents with minor injuries were reported to</p> | | | | | | | | | |



National Weather Service

Storm Data and Unusual Weather Phenomena



January 2004

| 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

Emergency Operations Centers. Many school districts closed due to the inclement weather.

WVZ049

Mineral

26 1530EST
27 2230EST

0 0

Winter Storm

A weak area of low pressure moved across the region on the 26th. This low produced a second round of snow and freezing rain on the 27th. An additional five inches of snow fell in Mineral County.

WVZ051>053

Morgan - Berkeley - Jefferson

31 0300EST
1000EST

0 0

Extreme Cold/Wind Chill

Very cold arctic air combined with strong northwest winds to produce dangerous wind chills. Minimum temperatures were in the lower teens. Wind speeds averaged 20 mph. Gusts of 30 mph were observed. This produced wind chill values of five to ten degrees below zero.