Storm Data and Unusual Weather Phenomena - February 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
DISTRICT OF COLUMBIA					
(DC-2001) DISTRICT OF COLUMBIA	02/01/19 07:00 EST		0	Winter Weather	
	02/01/19 18:00 EST		0		
High pressure overhead of the region I boundary was positioned south of the Ohio Valley on the morning of the 1st. associated with this frontal wave led to	ate on January 31st shifted eastward region across southern Virginia, and This then moved eastward to the Virg o 1 to 1.5 inches of accumulating sno	l and offshore in t a wave of low pro ginia Tidewater by w in the District o	he early morning essure developed / the evening hou of Columbia.	of February 1st. A frontal along the boundary in the rs. Warm air advection	
(DC-Z001) DISTRICT OF COLUMBIA					
	02/10/19 21:00 EST		0	Winter Weather	
	02/12/19 10:00 EST		0		
Surface high pressure was located over that moved near the region from the ev the District of Columbia during this tim	er the region on the morning of Febru rening of the 10th and through the 12 ne, resulting in a light snow accumula	iary 10th. This gav 2th. Several perioc ation.	ve way to several Is of rain and mix	waves of low pressure ed precipitation affected	
(DC-2001) DISTRICT OF COLUMBIA	12/20/10 DE:00 EST		0	Winter Weather	
	02/20/19 23:59 FST		0		
20th. (DC-Z001) DISTRICT OF COLUMBIA	02/24/40 20:00 EST			High Wind (MAY 52 Lt)	
	02/24/19 20:00 EST		0	High Wind (MAX 52 kt)	
An area of low pressure rapidly intensi evening of February 24th and into the remainder of the 25th. A secondary are Strong winds associated with the syste MARYLAND, Central	ified as it moved from the Mid-Missis morning hours of February 25th. The ea of low pressure also developed ald em led to high wind gusts across the GANY 02/01/19 02:00 EST	sippi Valley north low then tracked ong the Mid-Atlant District of Colum	ward into the Gre northeastward im tic coastline and r bia.	at Lakes from late in the to Canada during the noved into New England.	
	02/01/19 18:00 EST		0		
		ID-Z006) NORTHE			

	Date/Time	Deaths &	Property &	Event Type and Details
	Date/Time	Injuries	Crop Dmg	
MD-Z501) EXTREME WESTERN ALLEGANY,	MD-Z502) CENTRAL AND EAS	TERN ALLEGAN	Y	
	02/06/19 18:00 EST		0	Dense Fog
	02/07/19 10:20 EST		0	
varm, moist air aloft overrunning colder surfa ense fog across portions of the region.	ice air combined with lingering	low level moistu	ire to produce lov	w clouds and widespread
MD-Z013) PRINCE GEORGES, (MD-Z014) ANN	LE ARUNDEL, (MD-Z016) CHAR	LES, (MD-Z017)	ST. MARY'S, (MD	-Z018) CALVERT, (MD-Z505)
NORTHWEST HOWARD, (MD-Z506) CENTRAL	AND SOUTHEAST HOWARD			
	02/07/19 20:56 EST		0	Dense Fog
	02/08/19 09:24 EST		0	
Varm, moist air aloft overrunning colder surfa ense fog across portions of the region.	ice air combined with abundan	t low level moist	ure to produce lo	w clouds and widespread
MD-Z003) WASHINGTON, (MD-Z004) FREDER	ICK, (MD-Z005) CARROLL, (MD	-Z006) NORTHEI	RN BALTIMORE,	(MD-Z501) EXTREME WESTERN
LLEGANY, (MD-Z502) CENTRAL AND EASTE	RN ALLEGANY, (MD-Z503) NO	RTHWEST MON	rgomery, (MD-Z	2505) NORTHWEST HOWARD,
MD-2307) NORTHWEST HARFURD	02/10/19 19:00 EST		0	Winter Storm
	02/12/19 19:00 EST		0	
MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014	4) ANNE ARUND	EL, (MD-Z504) CE	ENTRAL AND SOUTHEAST
MONTGOMERY, (MD-Z506) CENTRAL AND SC	UTHEAST HOWARD, (MD-Z508	3) SOUTHEAST H		Minter Meether
	02/10/19 21:00 EST		U	winter weather
MD-Z003) WASHINGTON, (MD-Z004) FREDER MD-Z013) PRINCE GEORGES, (MD-Z014) ANN ALLEGANY, (MD-Z503) NORTHWEST MONTG	ICK, (MD-Z005) CARROLL, (MD IE ARUNDEL, (MD-Z501) EXTRI OMERY, (MD-Z504) CENTRAL A	-Z006) NORTHEI EME WESTERN / AND SOUTHEAS	RN BALTIMORE, ALLEGANY, (MD- T MONTGOMERY	(MD-Z011) SOUTHERN BALTIMORE, Z502) CENTRAL AND EASTERN /, (MD-Z505) NORTHWEST HOWARD, T HAREORD
MD-2500) CENTRAL AND SOUTHEAST HOW	02/17/19 16:00 EST	IARFORD, (WID-2	0	Winter Weather
	02/17/19 23:59 EST		0	
A ridge of high pressure was in place over the time, low pressure was tracking northeastwar	northeastern United States in d from the lower Mississippi Va advection occurring aloft over	the early mornin alley. By the after the Mid-Atlantic	g hours of Febru moon the area of states, while col	ary 17th. At the same low pressure had d surface temperatures
progressed into the Ohio Valley with warm air remained. This led to areas of freezing rain an and north and west of the Baltimore metropol then changed to rain during the overnight hou	d sleet during the afternoon an itan area. Ice accumulations we ırs.	ere light and arou	of the 17th for lo Ind a tenth of an	inch or less. Precipitation
progressed into the Ohio Valley with warm air remained. This led to areas of freezing rain an and north and west of the Baltimore metropol then changed to rain during the overnight hou (MD-Z003) WASHINGTON, (MD-Z004) FREDER	d sleet during the afternoon an itan area. Ice accumulations we irs. 	e evening nours re light and arou -Z006) NORTHEI	of the 17th for lo ind a tenth of an RN BALTIMORE,	(MD-Z011) SOUTHERN BALTIMORE,
progressed into the Ohio Valley with warm air remained. This led to areas of freezing rain an and north and west of the Baltimore metropol then changed to rain during the overnight hou (MD-Z003) WASHINGTON, (MD-Z004) FREDER (MD-Z501) EXTREME WESTERN ALLEGANY, (d sleet during the afternoon an itan area. Ice accumulations we irs. ICK, (MD-Z005) CARROLL, (MD MD-Z502) CENTRAL AND EAS	o evening nours are light and arou -Z006) NORTHEI TERN ALLEGAN	of the 17th for lo ind a tenth of an RN BALTIMORE, Y, (MD-Z503) NOF	(MD-Z011) SOUTHERN BALTIMORE, RTHWEST MONTGOMERY, (MD-Z504)
progressed into the Ohio Valley with warm air remained. This led to areas of freezing rain an and north and west of the Baltimore metropol then changed to rain during the overnight hou (MD-Z003) WASHINGTON, (MD-Z004) FREDER (MD-Z501) EXTREME WESTERN ALLEGANY, (CENTRAL AND SOUTHEAST MONTGOMERY,	d sleet during the afternoon an itan area. Ice accumulations we irs. ICK, (MD-Z005) CARROLL, (MD MD-Z502) CENTRAL AND EAS (MD-Z505) NORTHWEST HOW/ 02/20/19 05:00 EST	o evening nours are light and arou -Z006) NORTHEI TERN ALLEGAN ARD, (MD-Z506) (of the 17th for lo ind a tenth of an RN BALTIMORE, Y, (MD-Z503) NOP CENTRAL AND S 0	(MD-Z011) SOUTHERN BALTIMORE, RTHWEST MONTGOMERY, (MD-Z504) OUTHEAST HOWARD Winter Storm
progressed into the Ohio Valley with warm air remained. This led to areas of freezing rain an and north and west of the Baltimore metropol then changed to rain during the overnight hou MD-Z003) WASHINGTON, (MD-Z004) FREDER MD-Z501) EXTREME WESTERN ALLEGANY, CENTRAL AND SOUTHEAST MONTGOMERY,	d sleet during the afternoon an itan area. Ice accumulations we irs. ICK, (MD-Z005) CARROLL, (MD MD-Z502) CENTRAL AND EAS (MD-Z505) NORTHWEST HOW/ 02/20/19 05:00 EST 02/20/19 23:59 EST	e evening nours are light and arou -Z006) NORTHEI TERN ALLEGAN ARD, (MD-Z506) (of the 17th for lo ind a tenth of an RN BALTIMORE, Y, (MD-Z503) NOF CENTRAL AND S 0 0	(MD-Z011) SOUTHERN BALTIMORE, RTHWEST MONTGOMERY, (MD-Z504) OUTHEAST HOWARD Winter Storm
progressed into the Ohio Valley with warm air remained. This led to areas of freezing rain an and north and west of the Baltimore metropol then changed to rain during the overnight hou (MD-Z003) WASHINGTON, (MD-Z004) FREDER (MD-Z501) EXTREME WESTERN ALLEGANY, CENTRAL AND SOUTHEAST MONTGOMERY,	d sleet during the afternoon an itan area. Ice accumulations we irs. ICK, (MD-Z005) CARROLL, (MD MD-Z502) CENTRAL AND EAS ³ (MD-Z505) NORTHWEST HOW 02/20/19 05:00 EST 02/20/19 23:59 EST	o evening nours are light and arou -2006) NORTHEI TERN ALLEGAN ARD, (MD-2506) (of the 17th for lo ind a tenth of an RN BALTIMORE, Y, (MD-Z503) NOF CENTRAL AND S 0 0	(MD-Z011) SOUTHERN BALTIMORE, RTHWEST MONTGOMERY, (MD-Z504) OUTHEAST HOWARD Winter Storm
progressed into the Ohio Valley with warm air remained. This led to areas of freezing rain an and north and west of the Baltimore metropol then changed to rain during the overnight hou (MD-Z003) WASHINGTON, (MD-Z004) FREDER (MD-Z501) EXTREME WESTERN ALLEGANY, CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANN	d sleet during the afternoon an itan area. Ice accumulations we irs. ICK, (MD-Z005) CARROLL, (MD MD-Z502) CENTRAL AND EAS (MD-Z505) NORTHWEST HOW/ 02/20/19 05:00 EST 02/20/19 23:59 EST IE ARUNDEL, (MD-Z016) CHAR	Devening nours ere light and arou D-Z006) NORTHEI TERN ALLEGAN ARD, (MD-Z506) (LES, (MD-Z017) ;	of the 17th for lo ind a tenth of an RN BALTIMORE, Y, (MD-Z503) NOF CENTRAL AND S 0 0 ST. MARY'S, (MD	(MD-Z011) SOUTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, RTHWEST MONTGOMERY, (MD-Z504) OUTHEAST HOWARD Winter Storm
rogressed into the Ohio Valley with warm air remained. This led to areas of freezing rain an and north and west of the Baltimore metropol then changed to rain during the overnight hou (MD-Z003) WASHINGTON, (MD-Z004) FREDER (MD-Z501) EXTREME WESTERN ALLEGANY, CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANN NORTHWEST HARFORD, (MD-Z508) SOUTHE	d sleet during the afternoon an itan area. Ice accumulations we irs. ICK, (MD-Z005) CARROLL, (MD (MD-Z502) CENTRAL AND EAS (MD-Z505) NORTHWEST HOW/ 02/20/19 05:00 EST 02/20/19 23:59 EST IE ARUNDEL, (MD-Z016) CHAR AST HARFORD	P-Z006) NORTHEI TERN ALLEGAN ARD, (MD-Z506) (LES, (MD-Z017) :	of the 17th for lo ind a tenth of an RN BALTIMORE, Y, (MD-Z503) NOF CENTRAL AND S 0 0 ST. MARY'S, (MD	(MD-Z011) SOUTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, RTHWEST MONTGOMERY, (MD-Z504) OUTHEAST HOWARD Winter Storm
Progressed into the Ohio Valley with warm air remained. This led to areas of freezing rain an and north and west of the Baltimore metropol then changed to rain during the overnight hou MD-Z003) WASHINGTON, (MD-Z004) FREDER MD-Z501) EXTREME WESTERN ALLEGANY, CENTRAL AND SOUTHEAST MONTGOMERY, MD-Z013) PRINCE GEORGES, (MD-Z014) ANN NORTHWEST HARFORD, (MD-Z508) SOUTHE	d sleet during the afternoon an itan area. Ice accumulations we irs. ICK, (MD-Z005) CARROLL, (MD (MD-Z502) CENTRAL AND EAS" (MD-Z505) NORTHWEST HOW, 02/20/19 05:00 EST IE ARUNDEL, (MD-Z016) CHAR AST HARFORD 02/20/19 05:00 EST	Devening nours ere light and arou D-Z006) NORTHEI TERN ALLEGAN ARD, (MD-Z506) (LES, (MD-Z017) :	of the 17th for lo ind a tenth of an RN BALTIMORE, Y, (MD-Z503) NOF CENTRAL AND S 0 0 ST. MARY'S, (MD 0	(MD-Z011) SOUTHERN BALTIMORE, RTHWEST MONTGOMERY, (MD-Z504) OUTHEAST HOWARD Winter Storm -Z018) CALVERT, (MD-Z507) Winter Weather
progressed into the Ohio Valley with warm air remained. This led to areas of freezing rain an and north and west of the Baltimore metropol then changed to rain during the overnight hou (MD-Z003) WASHINGTON, (MD-Z004) FREDER (MD-Z501) EXTREME WESTERN ALLEGANY, CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANN NORTHWEST HARFORD, (MD-Z508) SOUTHEA	d sleet during the afternoon an itan area. Ice accumulations we irs. ICK, (MD-Z005) CARROLL, (MD (MD-Z502) CENTRAL AND EAS (MD-Z505) NORTHWEST HOW, 02/20/19 05:00 EST 02/20/19 23:59 EST IE ARUNDEL, (MD-Z016) CHAR AST HARFORD 02/20/19 05:00 EST 02/20/19 23:59 EST	-Z006) NORTHEI -Z006) NORTHEI TERN ALLEGAN ARD, (MD-Z506) (of the 17th for lo ind a tenth of an RN BALTIMORE, Y, (MD-Z503) NOF CENTRAL AND S 0 0 ST. MARY'S, (MD 0 0	(MD-Z011) SOUTHERN BALTIMORE, RTHWEST MONTGOMERY, (MD-Z504) OUTHEAST HOWARD Winter Storm -Z018) CALVERT, (MD-Z507) Winter Weather
progressed into the Ohio Valley with warm air remained. This led to areas of freezing rain an and north and west of the Baltimore metropol then changed to rain during the overnight hou (MD-Z003) WASHINGTON, (MD-Z004) FREDER (MD-Z501) EXTREME WESTERN ALLEGANY, CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANN NORTHWEST HARFORD, (MD-Z508) SOUTHEAST Surface bigh pressure was in place over the p	d sleet during the afternoon an itan area. Ice accumulations we irs. ICK, (MD-Z005) CARROLL, (MD (MD-Z502) CENTRAL AND EAS (MD-Z505) NORTHWEST HOW/ 02/20/19 05:00 EST 02/20/19 23:59 EST IE ARUNDEL, (MD-Z016) CHAR AST HARFORD 02/20/19 05:00 EST 02/20/19 05:00 EST 02/20/19 23:59 EST	-2006) NORTHEI -2006) NORTHEI TERN ALLEGAN ARD, (MD-2506) (LES, (MD-2017) :	of the 17th for lo ind a tenth of an RN BALTIMORE, Y, (MD-Z503) NOF CENTRAL AND S 0 0 ST. MARY'S, (MD 0 0	(MD-Z011) SOUTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, RTHWEST MONTGOMERY, (MD-Z504) OUTHEAST HOWARD Winter Storm -Z018) CALVERT, (MD-Z507) Winter Weather 2019th At the same time
progressed into the Ohio Valley with warm air remained. This led to areas of freezing rain an and north and west of the Baltimore metropol then changed to rain during the overnight hou (MD-Z003) WASHINGTON, (MD-Z004) FREDER (MD-Z501) EXTREME WESTERN ALLEGANY, (CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANN NORTHWEST HARFORD, (MD-Z508) SOUTHE, Surface high pressure was in place over the n	d sleet during the afternoon an itan area. Ice accumulations we irs. ICK, (MD-Z005) CARROLL, (MD (MD-Z502) CENTRAL AND EAS (MD-Z505) NORTHWEST HOW/ 02/20/19 05:00 EST 02/20/19 23:59 EST IE ARUNDEL, (MD-Z016) CHAR AST HARFORD 02/20/19 05:00 EST 02/20/19 23:59 EST ortheastern United States durin 1 the south central US_Strong V	-2006) NORTHEI TERN ALLEGAN ARD, (MD-2506) (LES, (MD-2017) :	of the 17th for lo ind a tenth of an RN BALTIMORE, Y, (MD-Z503) NOF CENTRAL AND S 0 0 ST. MARY'S, (MD 0 0 hours of Februar	(MD-Z011) SOUTHERN BALTIMORE, RTHWEST MONTGOMERY, (MD-Z504) OUTHEAST HOWARD Winter Storm -Z018) CALVERT, (MD-Z507) Winter Weather y 19th. At the same time, d frontogenetical forcing
progressed into the Ohio Valley with warm air remained. This led to areas of freezing rain an and north and west of the Baltimore metropol then changed to rain during the overnight hou (MD-Z003) WASHINGTON, (MD-Z004) FREDER (MD-Z501) EXTREME WESTERN ALLEGANY, (CENTRAL AND SOUTHEAST MONTGOMERY, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANN NORTHWEST HARFORD, (MD-Z508) SOUTHEAST Surface high pressure was in place over the n low pressure was tracking northeastward from led to a period of moderate to heavy snow that	d sleet during the afternoon an itan area. Ice accumulations we irs. ICK, (MD-Z005) CARROLL, (MD (MD-Z502) CENTRAL AND EAS (MD-Z505) NORTHWEST HOW/ 02/20/19 05:00 EST 02/20/19 03:59 EST IE ARUNDEL, (MD-Z016) CHAR AST HARFORD 02/20/19 05:00 EST 02/20/19 05:00 EST 02/20/19 23:59 EST ortheastern United States durin the south central US. Strong v t spread northeastward across	A evening nours are light and arou D-Z006) NORTHEI TERN ALLEGAN ARD, (MD-Z506) (LES, (MD-Z017) : hg the overnight warm air advection the state of Man	of the 17th for lo ind a tenth of an RN BALTIMORE, Y, (MD-Z503) NOF CENTRAL AND S 0 0 ST. MARY'S, (MD 0 0 hours of Februar on and associate yland, especially	(MD-Z011) SOUTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, RTHWEST MONTGOMERY, (MD-Z504) OUTHEAST HOWARD Winter Storm -Z018) CALVERT, (MD-Z507) Winter Weather y 19th. At the same time, d frontogenetical forcing along and northwest of

then freezing rain during the afternoon hours. By later that evening, the primary low was moving through the Great Lakes region as a secondary low moved along the Mid-Atlantic coastline. Eventually enough warm air moved into the region, changing all precipitation over

Storm Data and Unusual Weather Phenomena - February 2019					
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
o rain during the overnight hours on the 20th.					
MD-Z501) EXTREME WESTERN ALLEGANY					
	02/23/19 09:00 EST		0	Winter Weather	
	02/23/19 23:59 EST		0		
Surface high pressure was located over New E issociated with a developing system in the so Maryland temperatures at elevations between glazing of ice up to about a tenth of an inch.	ingland through the day on F uthern plains led to rain over 1500 and 4000 feet were belo	ebruary 23rd. Over spreading portion w freezing for mu	errunning warm an is of the state of N ch of the day and	nd moist air advection Iaryland. In western evening, which led to a	
MD-Z003) WASHINGTON, (MD-Z004) FREDERI MD-Z013) PRINCE GEORGES, (MD-Z014) ANN ALLEGANY, (MD-Z503) NORTHWEST MONTGC MD-Z506) CENTRAL AND SOUTHEAST HOWA	CK, (MD-Z005) CARROLL, (M E ARUNDEL, (MD-Z501) EXTI DMERY, (MD-Z504) CENTRAL RD, (MD-Z507) NORTHWEST 02/24/19 10:00 EST 02/25/19 11:06 EST	ID-Z006) NORTHE REME WESTERN . AND SOUTHEAS ⁻ HARFORD, (MD-	RN BALTIMORE, (ALLEGANY, (MD-2 T MONTGOMERY, Z508) SOUTHEAS 0 0	MD-Z011) SOUTHERN BALTIMORE, Z502) CENTRAL AND EASTERN (MD-Z505) NORTHWEST HOWARD, T HARFORD High Wind (MAX 56 kt)	
An area of low pressure rapidly intensified as i evening of February 24th and into the morning emainder of the 25th. A secondary area of low Strong winds associated with the system led to	t moved from the Mid-Missis hours of February 25th. The pressure also developed alc high wind gusts across the	sippi Valley north low then tracked ong the Mid-Atlan majority of Maryl	ward into the Grea northeastward int tic coastline and n and north and wes	at Lakes from late in the o Canada during the noved into New England. st of Interstate 95.	
/IRGINIA, North					
VA-Z028) FREDERICK, (VA-Z053) FAIRFAX, (V	A-Z054) ARLINGTON, (VA-Z5	503) WESTERN HI	GHLAND, (VA-Z50	5) WESTERN LOUDOUN, (VA-Z506)	
ASTERN LOUDOUN	02/01/19 02:00 FST		0	Winter Weather	
	02/01/19 18:00 EST		0		
High pressure overhead of the region late on J boundary was positioned south of the region a Dhio Valley on the morning of the 1st. This the Issociated with this frontal wave led to light to VA-Z036) NELSON, (VA-Z037) ALBEMARLE, (V VA-Z051) CULPEPER, (VA-Z052) PRINCE WILI NORTHERN FAUQUIER, (VA-Z502) SOUTHERN	anuary 31st shifted eastward across southern Virginia, and in moved eastward to the Virg moderate accumulating sno /A-Z038) GREENE, (VA-Z039) LIAM, (VA-Z055) STAFFORD, I FAUQUIER. (VA-Z555) WFS	and offshore in f a wave of low pr ginia Tidewater by w for portions of MADISON, (VA-Z (VA-Z056) SPOTS TERN LOUDQIN	he early morning of essure developed r the evening hour northern and west (040) RAPPAHANN YLVANIA, (VA-Z06) (VA-Z506) FASTE	of February 1st. A frontal along the boundary in the s. Warm air advection tern Virginia. IOCK, (VA-Z050) ORANGE, 57) KING GEORGE, (VA-Z501) RN LOUDOUN	
WALLEN AUGULIN, (VA-2002) SOUTHERN	02/07/19 18:30 EST	LINE LOUDOUN,	0	Dense Fog	
	02/08/19 09:24 EST		0		
Narm, moist air aloft overrunning colder surfa Jense fog across portions of the region.	ce air combined with abunda	int low level mois	ture to produce lo	w clouds and widespread	
VA-Z508) CENTRAL VIRGINIA BLUE RIDGE					
···· /	02/08/10 05:00 EST		0	High Wind (MAX 52 kt)	
,	02/06/19 05:00 EST			e v v	
	02/08/19 06:00 EST		0		

(VA-2029) AUGUSTA, (VA-2029) ROCKINGHAM, (VA-2027) SHENANDOAH, (VA-2028) FREDERICK, (VA-2029) FAGE, (VA-2031) CLARKE, (VA-2036) NELSON, (VA-Z037) ALBEMARLE, (VA-Z038) GREENE, (VA-Z039) MADISON, (VA-Z040) RAPPAHANNOCK, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z054) ARLINGTON, (VA-Z501) NORTHERN FAUQUIER, (VA-Z502) SOUTHERN FAUQUIER, (VA-Z503) WESTERN HIGHLAND, (VA-Z504) EASTERN HIGHLAND, (VA-Z505) WESTERN LOUDOUN, (VA-Z506) EASTERN LOUDOUN, (VA-Z508) CENTRAL VIRGINIA BLUE RIDGE

02/10/19 19:00 EST	1	0	Winter Weather
02/12/19 10:00 EST		0	

Storm Data and Unusual Weather Phenomena - February 2019

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Direct Fatalities: F52UT				
(VA-Z030) WARREN, (VA-Z507) NORTHERN	VIRGINIA BLUE RIDGE			
	02/10/19 19:00 EST		0	Winter Storm
	02/12/19 19:00 EST		0	
Surface high pressure was located over the that moved near the region from the evenin affected northern and western Virginia duri generally between 0.10 and 0.20 inches but	region on the morning of Februa g of the 10th and through the 12th ng this time, with snow accumula as high as 0.50 to 1.0 inch across	ry 10th. This gav n. Several period tions up to aroun the higher eleva	re way to several v s of rain and mixe nd one inch and ic ations.	vaves of low pressure d wintry precipitation e accumulations
(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGH (VA-Z031) CLARKE, (VA-Z503) WESTERN H VIRGINIA BLUE RIDGE. (VA-Z508) CENTRA	IAM, (VA-Z027) SHENANDOAH, (V IGHLAND, (VA-Z504) EASTERN H L VIRGINIA BLUE RIDGE	/A-Z028) FREDE IGHLAND, (VA-Z	RICK, (VA-Z029) P 505) WESTERN L	AGE, (VA-Z030) WARREN, DUDOUN, (VA-Z507) NORTHERN
	02/17/19 14:00 EST		0	Winter Weather
	02/17/19 23:59 EST		0	
time, low pressure was tracking northeastw progressed into the Ohio Valley with warm remained. This led to areas of freezing rain the Blue Ridge in northern and western Virg overnight hours.	vard from the lower Mississippi Va air advection occurring aloft over and sleet during the afternoon an ginia. Trace amounts of ice were c	alley. By the after the Mid-Atlantic d evening hours observed. Precip	moon the area of states, while cold of the 17th for loc itation then chang	low pressure had surface temperatures cations near and west of led to rain during the
(VA-Z025) AUGUSTA, (VA-Z026) ROCKINGH MADISON, (VA-Z050) ORANGE, (VA-Z051) C GEORGE, (VA-Z502) SOUTHERN FAUQUIEI RIDGE	IAM, (VA-Z029) PAGE, (VA-Z036) I CULPEPER, (VA-Z054) ARLINGTO R, (VA-Z503) WESTERN HIGHLAN	NELSON, (VA-Z0 N, (VA-Z055) STA D, (VA-Z504) EA	37) ALBEMARLE, AFFORD, (VA-Z056 STERN HIGHLAND	(VA-Z038) GREENE, (VA-Z039) 5) SPOTSYLVANIA, (VA-Z057) KING 0, (VA-Z508) CENTRAL VIRGINIA BLUE
	02/20/19 03:00 EST		0	winter weather
	02/20/13 20:03 201		0	
(VA-Z027) SHENANDOAH, (VA-Z028) FRED WILLIAM, (VA-Z053) FAIRFAX, (VA-Z501) N NORTHERN VIRGINIA BLUE RIDGE	ERICK, (VA-Z030) WARREN, (VA-Z DRTHERN FAUQUIER, (VA-Z505) '	2031) CLARKE, (WESTERN LOUE	VA-Z040) RAPPAH OOUN, (VA-Z506) E	IANNOCK, (VA-Z052) PRINCE ASTERN LOUDOUN, (VA-Z507)
	02/20/19 03:00 EST		0	Winter Storm
	02/20/19 23:59 EST		0	
Surface high pressure was in place over the low pressure was tracking northeastward fi led to a period of moderate to heavy snow to Interstate 66. As warmer air continued to m afternoon hours. By later that evening, the Mid-Atlantic coastline. Eventually enough w hours on the 20th.	e northeastern United States durir rom the south central US. Strong w that spread northeastward across ove in aloft, precipitation then tran primary low was moving through w varm air moved into the region, ch	ng the overnight warm air advecti central and nort nsitioned over to the Great Lakes nanging all preci	hours of February on and associated hern Virginia, esp o sleet and then fro region as a secon oitation over to rai	y 19th. At the same time, I frontogenetical forcing ecially along and north of eezing rain during the dary low moved along the in during the overnight
(VA-Z503) WESTERN HIGHLAND, (VA-Z504) BLUE RIDGE	EASTERN HIGHLAND, (VA-Z507)	NORTHERN VIF	RGINIA BLUE RIDO	GE, (VA-Z508) CENTRAL VIRGINIA
	02/23/19 05:00 EST		0	Winter Weather
Surface high pressure was located over Ne associated with a developing system in the and near the Allegheny Front and the Blue of the day and evening, which led to a glazi	w England through the day on Fel southern plains led to rain overs Ridge, temperatures at elevations ng of ice up to about a tenth of an	bruary 23rd. Ove preading portion between 1500 a hinch.	rrunning warm an s of central and w nd 4000 feet were	d moist air advection estern Virginia. Along below freezing for much
(VA-Z023) FREDERICK, (VA-Z031) CLARKE FAUQUIER, (VA-Z503) WESTERN HIGHLAN (VA-Z507) NORTHERN VIRGINIA BLUE RIDO	, (VA-2052) PRINCE WILLIAM, (VA D, (VA-2504) EASTERN HIGHLAN GE, (VA-2508) CENTRAL VIRGINIA 02/24/19 10:00 EST 02/25/19 11:06 EST	-2053) FAIRFAX D, (VA-Z505) WE A BLUE RIDGE	, (va-2054) ARLIN STERN LOUDOU! 0 0	High Wind (MAX 70 kt)

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
An area of low pressure rapidly intensified as in evening of February 24th and into the morning remainder of the 25th. A secondary area of low Strong winds associated with the system led to	t moved from the Mid-Mississip hours of February 25th. The lo pressure also developed along high wind gusts across north	ppi Valley northw w then tracked n g the Mid-Atlantic ern and western	ard into the Great L ortheastward into C : coastline and mov Virginia.	Lakes from late in the Canada during the ved into New England.
WEST VIRGINIA, East				
(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (WV-Z052) BERKELEY, (WV-Z0	53) JEFFERSON,	(WV-Z055) HARDY	, (WV-Z505) WESTERN
FENDLETON, (WV-2500) EASTERN FENDLETO	02/01/19 02:00 EST		0	Winter Weather
	02/01/19 18:00 EST		0	
(WV-Z501) WESTERN GRANT, (WV-Z502) EAST	ERN GRANT, (WV-Z503) WEST	ERN MINERAL, (WV-Z504) EASTER	N MINERAL
	02/01/19 02:00 EST		0	Winter Storm
	02/01/19 18:00 EST		0	
boundary was positioned south of the region a Ohio Valley on the morning of the 1st. This the associated with this frontal wave led to widesp across the lower elevations of the far eastern V the Allegheny Front.	cross southern Virginia, and a n moved eastward to the Virgin read accumulating snow for th Vest Virginia panhandle, and 6	wave of low pres iia Tidewater by t e eastern West V to 12 inches acro	sure developed alc he evening hours. irginia, with genera ss the higher eleva	ong the boundary in the Warm air advection Illy 2 to 4 inches ations near and along
(WV-Z050) HAMPSHIRE, (WV-Z055) HARDY, (W EASTERN MINERAL	V-Z501) WESTERN GRANT, (W	V-Z502) EASTER	N GRANT, (WV-Z50	03) WESTERN MINERAL, (WV-Z504)
	02/07/19 04:30 EST		0	Dense Fog
	02/07/19 06:55 EST		0	
Warm, moist air aloft overrunning colder surface dense fog across portions of the region. (WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, (MINERAL (WV-Z504) EASTERN MINERAL (WV	WV-Z055) HARDY, (WV-Z501) V	low level moistur	e to produce low c T, (WV-Z502) EAST	louds and widespread ERN GRANT, (WV-Z503) WESTERN
	02/10/19 19:00 EST	•	0	Winter Storm
	02/12/19 19:00 EST		0	
(WV-Z052) BERKELEY, (WV-Z053) JEFFERSON	, (WV-Z506) EASTERN PENDLE	ETON		
	02/10/19 19:00 EST		0	Winter Weather
	02/12/19 10:00 EST		0	
Surface high pressure was located over the reg that moved near the region from the evening of eastern West Virginia during this time, with a lig	jion on the morning of Februar f the 10th and through the 12th ght snow accumulation and ice	y 10th. This gave . Several periods e accumulations (way to several way of mixed wintry pro- of up to a quarter o	ves of low pressure ecipitation affected f an inch.
VANCLEVESVILLE [39.42, -77.94]	VILLE [39.42, -77.94], 0.5 WSW	BLAIRTON [39.4	5, -77.93], 0.4 SSW	BLAIRTON [39.45, -77.92], 2.1 WSW
	02/13/19 00:08 EST		0	Flood (due to Heavy Rain)
	02/13/19 10:45 EST		0	Source: River/Stream Gage
The USGS stream gage on Opequon Creek near occurred at 5:15am. Golf Course Road and Doug	Martinsburg exceeded the 10 fo glas Grove Road were flooded.	oot flood stage du	ring the indicated pe	priod. The peak level of 10.74 feet
Moderate rain in the Opequon Creek basin cause	sed minor flooding on Februar	y 13th.		
(WV-Z050) HAMPSHIRE, (WV-Z051) MORGAN, ((WV-Z502) EASTERN GRANT, (WV-Z503) WEST EASTERN PENDLETON	WV-Z052) BERKELEY, (WV-Z0 ERN MINERAL, (WV-Z504) EAS	53) JEFFERSON, STERN MINERAL	(WV-Z055) HARDY , (WV-Z505) WESTE	, (WV-Z501) WESTERN GRANT, ERN PENDLETON, (WV-Z506)
	02/17/19 14:00 EST		0	Winter Weather
	02/17/19 23:59 EST		0	

Storm Data and Unusual Weather Phenomena - February 2019

	Storm Data and Unusua	l Weather Pl	nenomena -	February 2019	
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
A ridge of high pressure was in place time, low pressure was tracking north progressed into the Ohio Valley with v remained. This led to areas of freezing Virginia. Trace amounts of ice were ob	over the northeastern United States in eastward from the lower Mississippi V varm air advection occurring aloft ove grain and sleet during the afternoon a pserved. Precipitation then changed to	the early morning falley. By the aftern r the Mid-Atlantic s nd evening hours o rain during the ov	hours of Februan noon the area of le states, while cold of the 17th for loc vernight hours.	ry 17th. At the same ow pressure had surface temperatures ations in eastern West	
(WV-Z050) HAMPSHIRE, (WV-Z051) M (WV-Z502) EASTERN GRANT, (WV-Z50	ORGAN, (WV-Z052) BERKELEY, (WV-z 03) WESTERN MINERAL, (WV-Z504) E.	2053) JEFFERSON, ASTERN MINERAL	(WV-Z055) HARD , (WV-Z505) WES ⁻	Y, (WV-Z501) WESTERN GRANT, FERN PENDLETON, (WV-Z506)	
EASTERN PENDLETON			0		
	02/20/19 03:00 EST		0	winter Storm	
	02/20/19 23:59 EST		0		
low pressure was tracking northeastw led to a period of moderate to heavy s warmer air continued to move in aloft, later that evening, the primary low was coastline. Eventually enough warm ain 20th.	rard from the south central US. Strong now that spread northeastward acros precipitation then transitioned over to s moving through the Great Lakes reg r moved into the region, changing all p	warm air advectio s eastern West Vin o sleet and then fre ion as a secondary precipitation over t	n and associated ginia on the morn ezing rain during / low moved along o rain during the	frontogenetical forcing ing of February 20th. As the afternoon hours. By g the Mid-Atlantic overnight hours on the	
(WV-Z501) WESTERN GRANT, (WV-Z5	03) WESTERN MINERAL, (WV-Z505) V	ESTERN PENDLE	TON, (WV-Z506) E	ASTERN PENDLETON	
	02/23/19 05:00 EST		0	Winter Weather	
	02/23/19 23:59 EST		0		
Surface high pressure was located ov associated with a developing system i the Allegheny Front, temperatures at e which led to a glazing of ice up to abo	er New England through the day on Fo in the southern plains led to rain overs elevations between 1500 and 4000 feel ut a tenth of an inch.	ebruary 23rd. Over spreading portions were below freezi	running warm and of eastern West ng for much of th	d moist air advection Virginia. Along and near e day and evening,	
(WV-Z050) HAMPSHIRE, (WV-Z051) M (WV-Z502) EASTERN GRANT, (WV-Z50	DRGAN, (WV-Z052) BERKELEY, (WV-Z 03) WESTERN MINERAL, (WV-Z504) E	2053) JEFFERSON, ASTERN MINERAL	(WV-Z055) HARD ., (WV-Z505) WES ⁻	Y, (WV-Z501) WESTERN GRANT, FERN PENDLETON, (WV-Z506)	
EASTERN PENDLETON					
	02/24/19 10:00 EST		0	High Wind (MAX 65 kt)	
	02/25/19 11:06 EST		0		
An area of low pressure rapidly intens evening of February 24th and into the remainder of the 25th. A secondary an Strong winds associated with the syst	ified as it moved from the Mid-Mississ morning hours of February 25th. The ea of low pressure also developed alo tem led to high wind gusts across eas	sippi Valley northw low then tracked n ng the Mid-Atlantic tern West Virginia.	vard into the Grea ortheastward into c coastline and m	t Lakes from late in the) Canada during the oved into New England.	
MINERAL COUNTY 1.6 SW FT ASH	BY [39.48, -78.79], 1.6 SW FT ASHBY [39.49, -78.79], 2.0 S	W FT ASHBY [39	.48, -78.80], 1.6 NNE CHAMPWOOD	
[39.47, -78.81], 1.2 NE CHAMPWOOD [39.46, -78.81], 1.3 NE CHAMPWOOD [3	89.46, -78.81]		_	
	02/24/19 14:21 EST		0	Flood (due to Heavy Rain)	
	02/25/19 01:19 EST		0	Source: River/Stream Gage	

The stream gage on Patterson Creek exceeded the 9 foot flood stage during the indicated period. The peak level of 9.28 feet occurred at 5:45pm EST on February 24th. Flooding occurred on Foreback Road and Georges Run Road.

Steady rain on February 24th caused rises on many streams. One stream, Patterson Creek, was already running high from prior rain and exceeded flood stage.