

## Storm Data and Unusual Weather Phenomena - November 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>MARYLAND, Central</b>				
<b>(MD-Z004) FREDERICK, (MD-Z009) MONTGOMERY</b>				
	11/07/11 05:36 EST	0		Dense Fog
	11/07/11 09:47 EST	0		
High pressure over the region allowed for radiational cooling during the early morning hours of the 7th. Radiational cooling allowed for areas of dense fog to develop during this time.				
<b>(MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT</b>				
	11/09/11 04:00 EST	0		Dense Fog
	11/09/11 10:39 EST	0		
High pressure provided mainly clear skies along with light winds. Radiational cooling led to the development of fog across portions of lower southern Maryland.				
<b>(MD-Z006) NORTHERN BALTIMORE, (MD-Z011) SOUTHERN BALTIMORE, (MD-Z013) PRINCE GEORGES, (MD-Z014) ANNE ARUNDEL, (MD-Z016) CHARLES, (MD-Z017) ST. MARY'S, (MD-Z018) CALVERT</b>				
	11/10/11 00:00 EST	0		Dense Fog
	11/10/11 09:56 EST	0		
High pressure provided a good setup for radiational cooling during the early morning hours of the 10th. The combination of radiational cooling and relatively high amounts of low-level moisture caused areas of dense fog to develop.				
<b>(MD-Z003) WASHINGTON, (MD-Z004) FREDERICK, (MD-Z005) CARROLL</b>				
	11/21/11 01:23 EST	0		Dense Fog
	11/21/11 07:59 EST	0		
High pressure to the south caused a light southerly flow during the evening of the 20th. High amounts of low-level moisture were able to move into the area due to the southerly flow. Radiational cooling during the early morning hours of the 21st combined with the high amounts of low-level moisture for areas of dense fog to develop.				
<b>CARROLL COUNTY --- 1.7 WNW SAMS CREEK [39.51, -77.13], 1.6 WNW SAMS CREEK [39.51, -77.13], 0.8 W SAMS CREEK [39.50, -77.11], 1.0 W SAMS CREEK [39.50, -77.12]</b>				
	11/23/11 01:45 EST	0		Flood (due to Heavy Rain)
	11/23/11 07:45 EST	0		Source: Fire Department/Rescue
Sams Creek Road was closed between Route 31 and Oak Orchard Road due to earlier rainfall. A nearby observer reported 3.04 inches of rain.				
<b>FREDERICK COUNTY --- 1.2 SSW MT PLEASANT [39.43, -77.34], 1.5 SSW MT PLEASANT [39.43, -77.34], 1.4 SSW MT PLEASANT [39.43, -77.34], 1.2 SSW MT PLEASANT [39.43, -77.34]</b>				
	11/23/11 01:45 EST	0		Flood (due to Heavy Rain)
	11/23/11 07:45 EST	0		Source: Fire Department/Rescue
Linganore Road was closed near Gas House Pike due to flooding from earlier rainfall. A nearby observer recorded 2.49 inches of rain.				
<b>FREDERICK COUNTY --- 1.3 N EMMITSBURG [39.72, -77.33], 1.3 N EMMITSBURG [39.72, -77.33], 1.3 N EMMITSBURG [39.72, -77.33], 1.3 N EMMITSBURG [39.72, -77.33]</b>				
	11/23/11 01:45 EST	0		Flood (due to Heavy Rain)
	11/23/11 07:45 EST	0		Source: Fire Department/Rescue
Irishtown Road was closed due to flooding from earlier rainfall. A nearby observer recorded 2.51 inches of rain.				
<b>FREDERICK COUNTY --- 1.8 ESE LE GORE [39.54, -77.29], 1.9 ESE LE GORE [39.54, -77.29], 1.9 ESE LE GORE [39.54, -77.29], 1.8 ESE LE GORE [39.54, -77.29]</b>				
	11/23/11 01:45 EST	0		Flood (due to Heavy Rain)
	11/23/11 07:45 EST	0		Source: Fire Department/Rescue
Hill Road was closed due to flooding on Israel Creek. A nearby observer measured 2.67 inches of rain.				

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<b>FREDERICK COUNTY --- 2.3 ESE LADIESBURG [39.57, -77.23], 2.2 ESE LADIESBURG [39.57, -77.23], 2.9 NNE JOHNSVILLE [39.57, -77.21], 2.8 NNE JOHNSVILLE [39.57, -77.21], 2.6 N JOHNSVILLE [39.57, -77.22]</b>				
	11/23/11 01:45 EST		0	Flood (due to Heavy Rain)
	11/23/11 07:45 EST		0	Source: Fire Department/Rescue

Good Intent Road was closed near Simpsons Mill road due to flooding from earlier rainfall. A nearby observer reported 2.79 inches of rain.

<b>FREDERICK COUNTY --- 2.5 E LADIESBURG [39.58, -77.22], 2.2 E LADIESBURG [39.58, -77.23], 2.2 E LADIESBURG [39.58, -77.23], 2.5 E LADIESBURG [39.58, -77.22]</b>				
	11/23/11 01:45 EST		0	Flood (due to Heavy Rain)
	11/23/11 07:45 EST		0	Source: Fire Department/Rescue

Claybaugh Road was closed at Johnsville road due to flooding from earlier rainfall. A nearby observed recorded 2.77 inches of rain.

<b>CARROLL COUNTY --- 0.9 SW NEW WINDSOR [39.54, -77.11], 1.4 NNE GIST [39.47, -76.99], 0.9 SE BRUMMEL [39.59, -76.92], 0.4 ENE TYRONE [39.62, -77.09]</b>				
	11/23/11 02:00 EST		0	Flood (due to Heavy Rain)
	11/23/11 08:00 EST		0	Source: State Official

Twenty to twenty-five county roads and 3 to 4 state roads were closed due to high water in Carroll County. A rainfall observer near Taneytown recorded 3.04 inches.

<b>FREDERICK COUNTY --- 0.3 WNW LOYS [39.60, -77.36], 0.2 WNW LOYS [39.60, -77.35], 0.5 N LOYS [39.61, -77.35], 0.6 NNW LOYS [39.61, -77.35]</b>				
	11/23/11 02:00 EST		0	Flood (due to Heavy Rain)
	11/23/11 08:00 EST		0	Source: Fire Department/Rescue

Numerous roadways were closed across Frederick County, including Old Frederick Road at Old Mill Road. An observer near this intersection reported 2.10 inches of rain.

<b>CARROLL COUNTY --- 1.5 E FRIZZELLBURG [39.60, -77.04], 0.5 N MEXICO [39.61, -76.95], 0.5 W REESE [39.55, -76.96], 0.9 NNE MEDFORD [39.56, -77.04]</b>				
	11/23/11 05:00 EST		0	Flood (due to Heavy Rain)
	11/23/11 07:00 EST		0	Source: Fire Department/Rescue

A swift-water rescue was performed in Westminster. The rainfall that caused the event happened a number of hours before the event. An observer in Westminster tallied 2.99 inches of rain.

<b>CARROLL COUNTY --- 0.9 NW KEYMAR [39.61, -77.24], 0.6 NNW KEYMAR [39.61, -77.23], 0.9 N KEYMAR [39.61, -77.23], 1.3 NNW KEYMAR [39.62, -77.24]</b>				
	11/23/11 06:00 EST		0	Flood (due to Heavy Rain)
	11/23/11 12:00 EST		0	Source: State Official

Keysville-Bruceville Road was closed at Route 194 due to flooding. A nearby observer recorded 2.85 inches of rain.

**A low pressure passed north of the region during the morning. It's associated warm front lifted through Maryland early in the morning, producing widespread light to moderate rain and saturating ground. When a band of moderate to heavy rain moved across as a cold front pushed east, flooding resulted in Carroll and Frederick counties. Rainfall amounts were measured as high as 3.43 near Libertyown.**

### VIRGINIA, North

<b>(VA-Z042) LOUDOUN, (VA-Z051) CULPEPER, (VA-Z052) PRINCE WILLIAM, (VA-Z053) FAIRFAX, (VA-Z502) SOUTHERN FAUQUIER</b>				
	11/07/11 03:15 EST		0	Dense Fog
	11/07/11 10:35 EST		0	

High pressure over the region allowed for radiational cooling during the early morning hours of the 7th. Radiational cooling allowed for areas of dense fog to develop during this time.

<b>(VA-Z057) KING GEORGE</b>				
	11/09/11 04:15 EST		0	Dense Fog
	11/09/11 10:39 EST		0	

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High pressure provided mainly clear skies along with light winds. Radiational cooling led to the development of fog across portions of the Virginia Piedmont.

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**(VA-Z057) KING GEORGE**

	11/10/11 06:00 EST	0		Dense Fog
	11/10/11 08:52 EST	0		

High pressure provided a good setup for radiational cooling during the early morning hours of the 10th. The combination of radiational cooling and relatively high amounts of low-level moisture caused areas of dense fog to develop across the Virginia Piedmont.

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**NELSON COUNTY --- 1.8 SE MONTEBELLO [37.85, -79.13], 2.0 SE MONTEBELLO [37.85, -79.13], 2.2 SSE MONTEBELLO [37.84, -79.14], 2.0 SSE MONTEBELLO [37.84, -79.14]**

	11/29/11 07:00 EST	0		Flood (due to Heavy Rain)
	11/29/11 13:00 EST	0		Source: Department of Highways

Seaman Lane was impassible due to flooding.

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**ALBEMARLE COUNTY --- 3.3 WSW GREENWOOD [38.04, -78.83], 3.3 WSW GREENWOOD [38.04, -78.83], 3.3 WSW GREENWOOD [38.04, -78.83], 3.4 WSW GREENWOOD [38.04, -78.83]**

	11/29/11 08:00 EST	0		Flood (due to Heavy Rain)
	11/29/11 14:00 EST	0		Source: Department of Highways

Rockfish Gap Turnpike was impassible due to flooding along a small stream just west of Little Rock Lane.

A plume of moisture on the east side of a broad low pressure centered over the Ohio Valley combined with ample lift enhanced by terrain across the central Virginia foothills to produce widespread moderate to heavy rain during the morning. Rainfall amounts, reported as high as 1.70 near Advance Mills, caused a couple of flood events in Nelson and Albemarle Counties.

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**WEST VIRGINIA, East**

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**(WV-Z052) BERKELEY, (WV-Z053) JEFFERSON**

	11/21/11 03:07 EST	0		Dense Fog
	11/21/11 09:13 EST	0		

High pressure to the south caused a light southerly flow during the evening of the 20th. High amounts of low-level moisture were able to move into the area due to the southerly flow. Radiational cooling during the early morning hours of the 21st combined with the high amounts of low-level moisture for areas of dense fog to develop.