Deaths &

Property &

Event Type and Details

Date/Time

Location

	Injuries	Crop Dmg	
ATLANTIC NORTH			
CHESAPEAKE BAY N OF POOLES IS MD COUNTY 1.8 ENE S	• '	-	M : TI M M M M M M M M M
08/02/09 09:2		0	Marine Thunderstorm Wind (EG 40 kt)
08/02/09 09:2	20 EST	0	Source: Trained Spotter
A wind gust of 40 knots was estimated just southeast of Perryville.			
TIDAL POTOMAC COBB IS MD TO SMITH PT VA COUNTY 5.6	S ESE PINEY POINT [38.11, -	76.43]	
08/02/09 11:	18 EST	0	Marine Thunderstorm Wind (MG 40 kt)
08/02/09 11:	18 EST	0	Source: Mesonet
A wind gust was estimated around 40 knots.			
CHESAPEAKE BAY DRUM PT TO SMITH PT VA COUNTY 0.2	SSE LOWER HOOPERS ISL	AND [38.26, -76.18]	
08/02/09 11:4	46 EST	0	Marine Thunderstorm Wind (EG 34 kt)
08/02/09 11:4	46 EST	0	Source: Mesonet
A wind gust in excess of 30 knots was measured at Lower Hooper	Island.		
TANGIER SOUND AND THE INLAND WATERS SURROUNDING E	BLOODSWORTH ISLAND CO	OUNTY 0.3 SSE C	RISFIELD [37.97, -75.88]
08/02/09 19:2		0	Marine Thunderstorm Wind (EG 34 kt)
08/02/09 19:2	24 EST	0	Source: Mesonet
A wind gust in excess of 30 knots was measured at Crisfield.			
TANGIER SOUND AND THE INLAND WATERS SURROUNDING I	BLOODSWORTH ISLAND CO	OUNTY 0.1 NE BIS	SHOPS HEAD [38.22, -76.041
08/02/09 21:5		0	Marine Thunderstorm Wind (MG 34 kt)
08/02/09 21:5	59 FST	0	Source: Mesonet
•		•	
A cold front passed through the waters on the 2nd of August. A Scattered showers and thunderstorms developed over the wate	southwest flow ahead of th	e front provided an	unstable atmosphere.
A cold front passed through the waters on the 2nd of August. A Scattered showers and thunderstorms developed over the wate Chesapeake Bay.	southwest flow ahead of th	e front provided an	unstable atmosphere.
A cold front passed through the waters on the 2nd of August. A Scattered showers and thunderstorms developed over the wate Chesapeake Bay.	southwest flow ahead of the season solutions, and isolated thunderstor sQUEHANNA [39.54, -76.08]	e front provided an	unstable atmosphere.
A cold front passed through the waters on the 2nd of August. A Scattered showers and thunderstorms developed over the wate Chesapeake Bay. CHESAPEAKE BAY N OF POOLES IS MD COUNTY 0.5 W SUS	southwest flow ahead of the sea, and isolated thunderstor squehanna [39.54, -76.08]	e front provided an ms did produce gu	unstable atmosphere. sty winds over the
A cold front passed through the waters on the 2nd of August. A Scattered showers and thunderstorms developed over the wate Chesapeake Bay. CHESAPEAKE BAY N OF POOLES IS MD COUNTY 0.5 W SUS 08/09/09 17:4	southwest flow ahead of the ser, and isolated thunderstor squehanna [39.54, -76.08] 44 EST	e front provided an ms did produce gus	unstable atmosphere. sty winds over the Marine Thunderstorm Wind (EG 40 kt)
A cold front passed through the waters on the 2nd of August. A Scattered showers and thunderstorms developed over the wate Chesapeake Bay. CHESAPEAKE BAY N OF POOLES IS MD COUNTY 0.5 W SUS 08/09/09 17:4 08/09/09 17:4 A wind gust of 40 knots was estimated just southeast of Havre De	southwest flow ahead of the ser, and isolated thunderstor squehanna [39.54, -76.08] 44 EST 44 EST Grace.	e front provided an ms did produce gus	unstable atmosphere. sty winds over the Marine Thunderstorm Wind (EG 40 kt)
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A cold front passed through the waters on the 2nd of August. A Scattered showers and thunderstorms developed over the water Chesapeake Bay. CHESAPEAKE BAY N OF POOLES IS MD COUNTY 0.5 W SUS 08/09/09 17:4 08/09/09 17:4 A wind gust of 40 knots was estimated just southeast of Havre De 08/09/09 17:4 08/09/09 17:4 A wind gust of 40 knots was measured at Havre de Grace. CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY 08/09/09 18:4 08/09/09 18:4 08/09/09 18:5 08/09/09/09 18:5 08/09/09/09 18:5 08/09/09/09 18:5 08/09/09/09/09/09/09/09/09/09/09/09/09/09/	southwest flow ahead of the series, and isolated thunderstor sequences. SQUEHANNA [39.54, -76.08] 44 EST 44 EST Grace. E GRACE [39.55, -76.10] 44 EST 44 EST 45 EST 46 EST 47 EST 47 EST 48 EST 48 EST 49 EST	e front provided an ms did produce gus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	unstable atmosphere. sty winds over the Marine Thunderstorm Wind (EG 40 kt) Source: Fire Department/Rescue Marine Thunderstorm Wind (MG 40 kt) Source: Mesonet Marine Thunderstorm Wind (MG 36 kt) Source: Mesonet
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A cold front passed through the waters on the 2nd of August. A Scattered showers and thunderstorms developed over the water Chesapeake Bay. CHESAPEAKE BAY N OF POOLES IS MD COUNTY 0.5 W SUS 08/09/09 17:4 08/09/09 17:4 A wind gust of 40 knots was estimated just southeast of Havre De 08/09/09 17:4 08/09/09 17:4 A wind gust of 40 knots was measured at Havre de Grace. CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY 08/09/09 18:4 08/09/09 18:5 A wind gust of 36 knots was measured at Miller Island. Strong surface heating triggered an unstable atmosphere on the thunderstorms developed due to the instability. Isolated thunden CHESAPEAKE BAY POOLES IS TO SANDY PT MD COUNTY E	SQUEHANNA [39.54, -76.08] 44 EST 44 EST Grace. E GRACE [39.55, -76.10] 44 EST 44 EST 45 EST 46 EST 46 EST 47 EST 48 EST 49 EST 40 EST 40 EST 40 EST 41 EST 41 EST 41 EST 42 EST 43 EST 44 EST 45 EST 46 EST 47 EST 48 EST 49 EST 49 EST 40 EST 41 EST	e front provided an ms did produce gus 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	unstable atmosphere. sty winds over the Marine Thunderstorm Wind (EG 40 kt) Source: Fire Department/Rescue Marine Thunderstorm Wind (MG 40 kt) Source: Mesonet Marine Thunderstorm Wind (MG 36 kt) Source: Mesonet

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
HESAPEAKE BAY POOLES IS TO SA	ANDY PT MD COUNTY 0.2 NNW MIL	LER ISLAND [39.2	25, -76.37]	
	08/10/09 20:28 EST		0	Marine Thunderstorm Wind (MG 46 kt)
	08/10/09 20:50 EST		0	Source: Mesonet
find gusts of 45 to 46 knots were mea	sured at Miller Island.			
	nstable atmosphere on the 10th. Desp instability. Isolated thunderstorms did		= -	
CHESAPEAKE BAY SANDY PT TO N I	BEACH MD COUNTY 10.4 S KENT IS	SLAND [38.77, -76	-	Marina Thunderstorm Wind (FC 40 kt)
	08/11/09 19:15 EST 08/11/09 19:15 EST		0	Marine Thunderstorm Wind (EG 40 kt) Source: Mariner
wind quat of 40 knots was estimated			Ü	Godree. Wallie
wind gust of 40 knots was estimated	near wicDanier.			
	nstable atmosphere on the 11th. Desp instability. An isolated thunderstorm d		= -	attered showers and
TIDAL POTOMAC COBB IS MD TO SM	IITH PT VA COUNTY PINEY POINT [38.13, -76.53]		
	08/19/09 16:06 EST		0	Marine Thunderstorm Wind (EG 34 kt)
	08/19/09 16:06 EST		0	Source: Buoy
A wind gust in excess of 30 knots was i	measured at Piney Point.			
TIDAL BOTOMAC CORR IS MD TO SM	NITH PT VA COUNTY 0.2 WNW POIN	T LOOKOUT [38.0	04, -76.32]	
IIDAL FOTOWIAC COBB IS WID TO SW			•	Marino Thundaratorm Wind (EC 24 kt)
TIDAL FOTOMIAC COBB IS MID TO SW	08/19/09 16:45 EST		0	Marine Thunderstorm Wind (EG 34 kt)
wind gust in excess of 30 knots was r	08/19/09 16:45 EST	n plenty of low-lev	0	Source: Mesonet
A wind gust in excess of 30 knots was n A southwest flow around high pressu moisture combined with strong surfac instability, and some of the thunderst	08/19/09 16:45 EST measured at Point Lookout. re over the western Atlantic ushered in the heating for an unstable atmosphere orms gusty winds.	. Showers and the	0 vel moisture acros understorms deve	Source: Mesonet ss the waters. The eloped due to the
A wind gust in excess of 30 knots was n A southwest flow around high pressu moisture combined with strong surfac instability, and some of the thunderst	08/19/09 16:45 EST measured at Point Lookout. re over the western Atlantic ushered in the heating for an unstable atmosphere orms gusty winds. DIAN HD MD COUNTY 0.2 NE (DCA)	. Showers and the	0 vel moisture acros understorms deve	Source: Mesonet ss the waters. The eloped due to the
A wind gust in excess of 30 knots was n A southwest flow around high pressu moisture combined with strong surfac nstability, and some of the thunderst	08/19/09 16:45 EST measured at Point Lookout. re over the western Atlantic ushered in the heating for an unstable atmosphere orms gusty winds. DIAN HD MD COUNTY 0.2 NE (DCA) 08/21/09 13:39 EST	. Showers and the	0 vel moisture acros understorms deve NAL AIRPORT [38.	Source: Mesonet ss the waters. The eloped due to the .85, -77.04] Marine Thunderstorm Wind (EG 34 kt)
A wind gust in excess of 30 knots was a A southwest flow around high pressu moisture combined with strong surfac nstability, and some of the thunderst	08/19/09 16:45 EST measured at Point Lookout. re over the western Atlantic ushered it ce heating for an unstable atmosphere orms gusty winds. DIAN HD MD COUNTY 0.2 NE (DCA) 08/21/09 13:39 EST 08/21/09 13:39 EST	. Showers and the	0 vel moisture acros understorms deve	Source: Mesonet ss the waters. The eloped due to the
A wind gust in excess of 30 knots was a southwest flow around high pressu moisture combined with strong surfacenstability, and some of the thunderst	08/19/09 16:45 EST measured at Point Lookout. re over the western Atlantic ushered it ce heating for an unstable atmosphere orms gusty winds. DIAN HD MD COUNTY 0.2 NE (DCA) 08/21/09 13:39 EST 08/21/09 13:39 EST	. Showers and the	0 vel moisture acros understorms deve NAL AIRPORT [38.	Source: Mesonet ss the waters. The eloped due to the .85, -77.04] Marine Thunderstorm Wind (EG 34 kt)
A wind gust in excess of 30 knots was not a southwest flow around high pressum in the combined with strong surfainstability, and some of the thunderst FIDAL POTOMAC KEY BRIDGE TO IN A wind gust in excess of 30 knots was not a wind gust in e	08/19/09 16:45 EST measured at Point Lookout. re over the western Atlantic ushered it ce heating for an unstable atmosphere orms gusty winds. DIAN HD MD COUNTY 0.2 NE (DCA) 08/21/09 13:39 EST 08/21/09 13:39 EST	. Showers and the	0 vel moisture acros understorms deve NAL AIRPORT [38.	Source: Mesonet ss the waters. The eloped due to the .85, -77.04] Marine Thunderstorm Wind (EG 34 kt)
A wind gust in excess of 30 knots was not a southwest flow around high pressum in the combined with strong surfainstability, and some of the thunderst FIDAL POTOMAC KEY BRIDGE TO IN A wind gust in excess of 30 knots was not a wind gust in e	08/19/09 16:45 EST measured at Point Lookout. re over the western Atlantic ushered in the heating for an unstable atmosphere orms gusty winds. DIAN HD MD COUNTY 0.2 NE (DCA) 08/21/09 13:39 EST 08/21/09 13:39 EST measured at Reagan National Airport.	. Showers and the	0 vel moisture acros understorms deve NAL AIRPORT [38.	Source: Mesonet ss the waters. The eloped due to the .85, -77.04] Marine Thunderstorm Wind (EG 34 kt)
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A wind gust in excess of 30 knots was not a southwest flow around high pressum in the combined with strong surfact instability, and some of the thunderst fidal potomac key bridge to in a wind gust in excess of 30 knots was not be combined with strong surfact in the combined with sur	08/19/09 16:45 EST measured at Point Lookout. re over the western Atlantic ushered in the centre of the eating for an unstable atmosphere orms gusty winds. DIAN HD MD COUNTY 0.2 NE (DCA) 08/21/09 13:39 EST 08/21/09 13:39 EST measured at Reagan National Airport. JM PT MD COUNTY COVE POINT [3 08/21/09 14:30 EST 08/21/09 14:30 EST	. Showers and the	ovel moisture acrossunderstorms development [38.0]	Source: Mesonet se the waters. The eloped due to the 1.85, -77.04] Marine Thunderstorm Wind (EG 34 kt) Source: ASOS Marine Thunderstorm Wind (EG 34 kt)
A wind gust in excess of 30 knots was a southwest flow around high pressum instability, and some of the thunderst TIDAL POTOMAC KEY BRIDGE TO IN A wind gust in excess of 30 knots was a CHESAPEAKE BAY N BEACH TO DRIVEN A wind gust in excess of 30 knots was a wi	08/19/09 16:45 EST measured at Point Lookout. re over the western Atlantic ushered in the centre of the eating for an unstable atmosphere orms gusty winds. DIAN HD MD COUNTY 0.2 NE (DCA) 08/21/09 13:39 EST 08/21/09 13:39 EST measured at Reagan National Airport. JM PT MD COUNTY COVE POINT [3 08/21/09 14:30 EST 08/21/09 14:30 EST	REAGAN NATION	vel moisture acros understorms deve NAL AIRPORT [38. 0 0	Source: Mesonet se the waters. The eloped due to the 1.85, -77.04] Marine Thunderstorm Wind (EG 34 kt) Source: ASOS Marine Thunderstorm Wind (EG 34 kt)
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A wind gust in excess of 30 knots was a southwest flow around high pressumoisture combined with strong surfactinistability, and some of the thunderst TIDAL POTOMAC KEY BRIDGE TO IN A wind gust in excess of 30 knots was a CHESAPEAKE BAY N BEACH TO DRIVE A wind gust in excess of 30 knots was a CHESAPEAKE BAY POOLES IS TO SA A wind gust in excess of 30 knots was a A southwest flow between an upper-lamoisture from the Gulf of Mexico. The	08/19/09 16:45 EST measured at Point Lookout. re over the western Atlantic ushered in the heating for an unstable atmosphere orms gusty winds. DIAN HD MD COUNTY 0.2 NE (DCA) 08/21/09 13:39 EST 08/21/09 13:39 EST measured at Reagan National Airport. UM PT MD COUNTY COVE POINT [3 08/21/09 14:30 EST 08/21/09 14:30 EST measured at Cove Point. ANDY PT MD COUNTY 0.2 NNW MIL 08/21/09 20:46 EST 08/21/09 20:46 EST	REAGAN NATION 8.43, -76.39] LER ISLAND [39.2]	vel moisture acros understorms deve NAL AIRPORT [38. 0 0 0 0 0 0 0 understorms deve	Source: Mesonet set the waters. The eloped due to the 1.85, -77.04] Marine Thunderstorm Wind (EG 34 kt) Source: ASOS Marine Thunderstorm Wind (EG 34 kt) Source: Buoy Marine Thunderstorm Wind (EG 34 kt) Source: Mesonet
A wind gust in excess of 30 knots was a southwest flow around high pressum instability, and some of the thunderst instability, and some of the thunderst TIDAL POTOMAC KEY BRIDGE TO IN A wind gust in excess of 30 knots was a CHESAPEAKE BAY N BEACH TO DRIVE A wind gust in excess of 30 knots was a check the control of the	08/19/09 16:45 EST measured at Point Lookout. re over the western Atlantic ushered in the heating for an unstable atmosphere orms gusty winds. DIAN HD MD COUNTY 0.2 NE (DCA) 08/21/09 13:39 EST 08/21/09 13:39 EST measured at Reagan National Airport. UM PT MD COUNTY COVE POINT [3 08/21/09 14:30 EST 08/21/09 14:30 EST measured at Cove Point. ANDY PT MD COUNTY 0.2 NNW MIL 08/21/09 20:46 EST 08/21/09 20:46 EST 08/21/09 20:46 EST measured at Miller Island. evel low over the Great Lakes and higher moisture combined with strong surface	REAGAN NATION 8.43, -76.39] LER ISLAND [39.2] In pressure over the ce heating to produnderstorms produinderstorms produinderstorms	vel moisture acros understorms deve NAL AIRPORT [38. 0 0 0 0 0 0 0 understorms deve	Source: Mesonet set the waters. The eloped due to the 1.85, -77.04] Marine Thunderstorm Wind (EG 34 kt) Source: ASOS Marine Thunderstorm Wind (EG 34 kt) Source: Buoy Marine Thunderstorm Wind (EG 34 kt) Source: Mesonet
A wind gust in excess of 30 knots was a southwest flow around high pressum instability, and some of the thunderst instability, and some of the thunderst TIDAL POTOMAC KEY BRIDGE TO IN A wind gust in excess of 30 knots was a CHESAPEAKE BAY N BEACH TO DRIVE A wind gust in excess of 30 knots was a check the control of the	08/19/09 16:45 EST measured at Point Lookout. re over the western Atlantic ushered in the heating for an unstable atmosphere forms gusty winds. DIAN HD MD COUNTY 0.2 NE (DCA) 08/21/09 13:39 EST 08/21/09 13:39 EST measured at Reagan National Airport. UM PT MD COUNTY COVE POINT [3 08/21/09 14:30 EST 08/21/09 14:30 EST 08/21/09 20:46 EST 08/21/	REAGAN NATION 8.43, -76.39] LER ISLAND [39.2] In pressure over the ce heating to produnderstorms produinderstorms produinderstorms	vel moisture acros understorms deve NAL AIRPORT [38. 0 0 0 0 0 0 0 understorms deve	Source: Mesonet set the waters. The eloped due to the 1.85, -77.04] Marine Thunderstorm Wind (EG 34 kt) Source: ASOS Marine Thunderstorm Wind (EG 34 kt) Source: Buoy Marine Thunderstorm Wind (EG 34 kt) Source: Mesonet

A wind gust of 41 knots was measured at Lewisetta.

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Deaths &

Property &

Event Type and Details

Date/Time

Location

	Duto, Time	Injuries	Crop Dmg	Evolit Type and Betaile
TIDAL POTOMAC COBB IS MD TO SMITH P		Y POINT [38.11, -76	-	Marina Thundaratarm Wind (FC F2 lt)
	08/24/09 04:12 EST		0	Marine Thunderstorm Wind (EG 52 kt)
	08/24/09 04:12 EST		0	Source: Trained Spotter
A wind gust was estimated around 60 mph ne	ear Piney Point.			
TANGIER SOUND AND THE INLAND WATER		ORTH ISLAND COL		
	08/24/09 05:51 EST		0	Marine Thunderstorm Wind (MG 35 kt)
	08/24/09 05:51 EST		0	Source: Mesonet
A wind gust of 35 knots was measured at Cris	sfield.			
A trough of low pressure provided cooler ai atmosphere. Scattered showers and thunde Chesapeake Bay and Potomac River.		-	=	
MARYLAND, Central				
FREDERICK COUNTY 0.7 S WOLFSVILLE	E [39.57, -77.55]			
	08/02/09 06:12 EST		0	Thunderstorm Wind (EG 61 kt)
	08/02/09 06:12 EST		0	Source: Emergency Manager
Numerous trees and power lines were down f	rom thunderstorm winds in Wolfs	sville.		
DEDEDICK COUNTY AS E THURMONT	39.6277.411			
FREDERICK COUNTY 0.5 E THURMONT	-		•	TI 1 () () () () () () () () () (
	08/02/09 06:23 EST 08/02/09 06:23 EST	unty. Most of the rep	0 0 ports came from the	Thunderstorm Wind (EG 61 kt) Source: Emergency Manager e Thurmont area.
Numerous reports of trees down were receive	08/02/09 06:23 EST 08/02/09 06:23 EST ad across northern Frederick Cou ORT [39.68, -77.23] 08/02/09 06:36 EST	unty. Most of the rep	0 ports came from the	Source: Emergency Manager e Thurmont area. Thunderstorm Wind (EG 50 kt)
Numerous reports of trees down were receive	08/02/09 06:23 EST 08/02/09 06:23 EST and across northern Frederick Cou	unty. Most of the rep	0 ports came from the	Source: Emergency Manager e Thurmont area.
Numerous reports of trees down were receive CARROLL COUNTY 0.3 WNW BRIDGEPO	08/02/09 06:23 EST 08/02/09 06:23 EST ad across northern Frederick Cou ORT [39.68, -77.23] 08/02/09 06:36 EST 08/02/09 06:36 EST	unty. Most of the rep	0 ports came from the	Source: Emergency Manager e Thurmont area. Thunderstorm Wind (EG 50 kt)
Numerous reports of trees down were receive CARROLL COUNTY 0.3 WNW BRIDGEPO A tree was down at Bull Frog Road and McMu	08/02/09 06:23 EST 08/02/09 06:23 EST od across northern Frederick Cou PRT [39.68, -77.23] 08/02/09 06:36 EST 08/02/09 06:36 EST ullen Road.	unty. Most of the rep	Oports came from the	Source: Emergency Manager e Thurmont area. Thunderstorm Wind (EG 50 kt) Source: Emergency Manager
Numerous reports of trees down were receive CARROLL COUNTY 0.3 WNW BRIDGEPO A tree was down at Bull Frog Road and McMu	08/02/09 06:23 EST 08/02/09 06:23 EST od across northern Frederick Cou ORT [39.68, -77.23] 08/02/09 06:36 EST 08/02/09 06:36 EST ullen Road. 0.63, -77.25] 08/02/09 06:46 EST	unty. Most of the rep	Oports came from the	Source: Emergency Manager e Thurmont area. Thunderstorm Wind (EG 50 kt) Source: Emergency Manager Hail (0.75 in)
Numerous reports of trees down were receive CARROLL COUNTY 0.3 WNW BRIDGEPO A tree was down at Bull Frog Road and McMu	08/02/09 06:23 EST 08/02/09 06:23 EST od across northern Frederick Cou PRT [39.68, -77.23] 08/02/09 06:36 EST 08/02/09 06:36 EST ullen Road.	unty. Most of the rep	Oports came from the	Source: Emergency Manager e Thurmont area. Thunderstorm Wind (EG 50 kt) Source: Emergency Manager
Numerous reports of trees down were receive CARROLL COUNTY 0.3 WNW BRIDGEPO A tree was down at Bull Frog Road and McMu	08/02/09 06:23 EST 08/02/09 06:23 EST od across northern Frederick Cou ORT [39.68, -77.23] 08/02/09 06:36 EST 08/02/09 06:36 EST ullen Road. 0.63, -77.25] 08/02/09 06:46 EST 08/02/09 06:46 EST	unty. Most of the rep	Oports came from the	Source: Emergency Manager e Thurmont area. Thunderstorm Wind (EG 50 kt) Source: Emergency Manager Hail (0.75 in)
Numerous reports of trees down were received CARROLL COUNTY 0.3 WNW BRIDGEPO A tree was down at Bull Frog Road and McMu CARROLL COUNTY 1.1 E KEYSVILLE [39] Hail up to the size of pennies was reported new	08/02/09 06:23 EST 08/02/09 06:23 EST od across northern Frederick Cou ORT [39.68, -77.23] 08/02/09 06:36 EST 08/02/09 06:36 EST ullen Road. 0.63, -77.25] 08/02/09 06:46 EST 08/02/09 06:46 EST ear Keysville.	flow ahead of the	oorts came from the	Source: Emergency Manager e Thurmont area. Thunderstorm Wind (EG 50 kt) Source: Emergency Manager Hail (0.75 in) Source: Trained Spotter
Numerous reports of trees down were received CARROLL COUNTY 0.3 WNW BRIDGEPO A tree was down at Bull Frog Road and McMu CARROLL COUNTY 1.1 E KEYSVILLE [39] Hail up to the size of pennies was reported new A cold front passed through the region on the comment of the comment of the cold front passed through the region on the comment of the cold front passed through the region on the cold front passed through the region of the cold front passed through the	08/02/09 06:23 EST 08/02/09 06:23 EST old across northern Frederick Country ORT [39.68, -77.23] 08/02/09 06:36 EST 08/02/09 06:36 EST ullen Road. 1.63, -77.25] 08/02/09 06:46 EST 08/02/09 06:46 EST ear Keysville. The 2nd of August. A southwest old front did become severe due ACE [39.56, -76.10]	flow ahead of the	Oports came from the Oports came from the Oports of Opor	Source: Emergency Manager Thurmont area. Thunderstorm Wind (EG 50 kt) Source: Emergency Manager Hail (0.75 in) Source: Trained Spotter unstable atmosphere. aloft.
Numerous reports of trees down were received CARROLL COUNTY 0.3 WNW BRIDGEPO A tree was down at Bull Frog Road and McMu CARROLL COUNTY 1.1 E KEYSVILLE [39] Hail up to the size of pennies was reported new a cold front passed through the region on the come thunderstorms associated with the colors.	08/02/09 06:23 EST 08/02/09 06:23 EST old across northern Frederick Coulors ORT [39.68, -77.23] 08/02/09 06:36 EST 08/02/09 06:36 EST ullen Road. 0.63, -77.25] 08/02/09 06:46 EST 08/02/09 06:46 EST ear Keysville. the 2nd of August. A southwest old front did become severe due ACE [39.56, -76.10] 08/09/09 17:40 EST	flow ahead of the	Oports came from the Oports came from the Oports of Opor	Source: Emergency Manager Thurmont area. Thunderstorm Wind (EG 50 kt) Source: Emergency Manager Hail (0.75 in) Source: Trained Spotter unstable atmosphere. aloft. Thunderstorm Wind (EG 50 kt)
Numerous reports of trees down were received CARROLL COUNTY 0.3 WNW BRIDGEPO A tree was down at Bull Frog Road and McMu CARROLL COUNTY 1.1 E KEYSVILLE [39] Hail up to the size of pennies was reported new a cold front passed through the region on the come thunderstorms associated with the colors.	08/02/09 06:23 EST 08/02/09 06:23 EST old across northern Frederick Country ORT [39.68, -77.23] 08/02/09 06:36 EST 08/02/09 06:36 EST ullen Road. 1.63, -77.25] 08/02/09 06:46 EST 08/02/09 06:46 EST ear Keysville. The 2nd of August. A southwest old front did become severe due ACE [39.56, -76.10]	flow ahead of the	Oports came from the Oports came from the Oports of Opor	Source: Emergency Manager Thurmont area. Thunderstorm Wind (EG 50 kt) Source: Emergency Manager Hail (0.75 in) Source: Trained Spotter unstable atmosphere. aloft.
Numerous reports of trees down were received CARROLL COUNTY 0.3 WNW BRIDGEPO A tree was down at Bull Frog Road and McMu CARROLL COUNTY 1.1 E KEYSVILLE [39] Hail up to the size of pennies was reported new A cold front passed through the region on the Some thunderstorms associated with the collaboration of the col	08/02/09 06:23 EST 08/02/09 06:23 EST old across northern Frederick Coulors ORT [39.68, -77.23] 08/02/09 06:36 EST 08/02/09 06:36 EST ullen Road. 0.63, -77.25] 08/02/09 06:46 EST 08/02/09 06:46 EST ear Keysville. the 2nd of August. A southwest old front did become severe due ACE [39.56, -76.10] 08/09/09 17:40 EST 08/09/09 17:40 EST	flow ahead of the	Oports came from the Oports came from the Oports of Opor	Source: Emergency Manager Thurmont area. Thunderstorm Wind (EG 50 kt) Source: Emergency Manager Hail (0.75 in) Source: Trained Spotter unstable atmosphere. aloft. Thunderstorm Wind (EG 50 kt)
Numerous reports of trees down were received CARROLL COUNTY 0.3 WNW BRIDGEPO A tree was down at Bull Frog Road and McMu CARROLL COUNTY 1.1 E KEYSVILLE [39] Hail up to the size of pennies was reported new A cold front passed through the region on the Some thunderstorms associated with the collaboration of the col	08/02/09 06:23 EST 08/02/09 06:23 EST od across northern Frederick Coulor ORT [39.68, -77.23] 08/02/09 06:36 EST 08/02/09 06:36 EST ullen Road. 1.63, -77.25] 08/02/09 06:46 EST 08/02/09 06:46 EST ear Keysville. the 2nd of August. A southwest old front did become severe dud ACE [39.56, -76.10] 08/09/09 17:40 EST 08/09/09 17:40 EST Grace. the atmosphere on the 9th. Desp	flow ahead of the e to the instability	oorts came from the 0 0 0 0 front provided and and strong winds and 0 0 0	Source: Emergency Manager Thurmont area. Thunderstorm Wind (EG 50 kt) Source: Emergency Manager Hail (0.75 in) Source: Trained Spotter unstable atmosphere. aloft. Thunderstorm Wind (EG 50 kt) Source: Fire Department/Rescue
Numerous reports of trees down were received CARROLL COUNTY 0.3 WNW BRIDGEPO A tree was down at Bull Frog Road and McMu CARROLL COUNTY 1.1 E KEYSVILLE [39] Hail up to the size of pennies was reported new A cold front passed through the region on the Some thunderstorms associated with the collaboration of the size of pennies was reported around Havre De GR Tree damage was reported around Havre De Strong surface heating triggered an unstable thunderstorms developed due to the instability of the country 0.5 W PASADE	08/02/09 06:23 EST 08/02/09 06:23 EST old across northern Frederick Coulors ORT [39.68, -77.23] 08/02/09 06:36 EST 08/02/09 06:36 EST ullen Road. 0.63, -77.25] 08/02/09 06:46 EST 08/02/09 06:46 EST ear Keysville. the 2nd of August. A southwest old front did become severe due ACE [39.56, -76.10] 08/09/09 17:40 EST 08/09/09 17:40 EST Grace. the atmosphere on the 9th. Desp tility. An isolated thunderstorm of	flow ahead of the e to the instability	oorts came from the 0 0 0 0 front provided and and strong winds and 0 0 0	Source: Emergency Manager Thurmont area. Thunderstorm Wind (EG 50 kt) Source: Emergency Manager Hail (0.75 in) Source: Trained Spotter unstable atmosphere. aloft. Thunderstorm Wind (EG 50 kt) Source: Fire Department/Rescue
Numerous reports of trees down were received CARROLL COUNTY 0.3 WNW BRIDGEPO A tree was down at Bull Frog Road and McMu CARROLL COUNTY 1.1 E KEYSVILLE [39] Hail up to the size of pennies was reported new A cold front passed through the region on the Some thunderstorms associated with the collaboration of the col	08/02/09 06:23 EST 08/02/09 06:23 EST old across northern Frederick Coulors ORT [39.68, -77.23] 08/02/09 06:36 EST 08/02/09 06:36 EST ullen Road. 0.63, -77.25] 08/02/09 06:46 EST 08/02/09 06:46 EST ear Keysville. the 2nd of August. A southwest old front did become severe due ACE [39.56, -76.10] 08/09/09 17:40 EST 08/09/09 17:40 EST Grace. the atmosphere on the 9th. Desp tility. An isolated thunderstorm of	flow ahead of the e to the instability	oorts came from the 0 0 0 0 front provided and and strong winds and 0 0 0	Source: Emergency Manager Thurmont area. Thunderstorm Wind (EG 50 kt) Source: Emergency Manager Hail (0.75 in) Source: Trained Spotter unstable atmosphere. aloft. Thunderstorm Wind (EG 50 kt) Source: Fire Department/Rescue

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	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ANNE ARUNDEL COUNTY 0.9 SE EARLEIGH				
	08/18/09 16:18 EST		0	Hail (0.75 in)
	08/18/09 16:18 EST		0	Source: Trained Spotter
Penny size hail was reported near Riverdale.				
BALTIMORE COUNTY 0.9 SW CARNEY [39.3	•			
	08/18/09 16:33 EST		0	Thunderstorm Wind (EG 50 kt)
	08/18/09 16:33 EST		0	Source: Fire Department/Rescue
tree was down near the intersection of Harford	Road and Putty Hill Avenue.			
ALTIMORE COUNTY 0.8 SSE CUB HILL [39				
	08/18/09 16:42 EST		0	Thunderstorm Wind (EG 50 kt)
	08/18/09 16:42 EST		0	Source: Fire Department/Rescue
tree was down on Harford Road and Cub Hill F	Road.			
IARFORD COUNTY 0.4 WSW GLENWOOD				
	08/18/09 16:56 EST		0	Thunderstorm Wind (EG 50 kt)
	08/18/09 16:56 EST		0	Source: Emergency Manager
A tree was down on Forest Drive.				
HARFORD COUNTY 1.5 NNW FOREST HILL	[39.60, -76.39]			
	08/18/09 17:22 EST		0	Thunderstorm Wind (EG 50 kt)
	08/18/09 17:22 EST		0	Source: Emergency Manager
A tree was down near the intersection of Walters	Mill Road and Grier Nursery F	Road. This resulted	d in a vehicular coll	ision.
HARFORD COUNTY 1.3 WSW LAPIDUM [39.	59, -76.15]			
	08/18/09 17:23 EST		0	Thunderstorm Wind (EG 50 kt)
	08/18/09 17:23 EST		0	Source: Emergency Manager
Frees were down in the Lapidum area.				
HARFORD COUNTY 1.1 E WHITEFORD [39.7	70, -76.33]			
	08/18/09 17:33 EST		0	Thunderstorm Wind (EG 50 kt)
	08/18/09 17:33 EST		0	Source: Emergency Manager
A tree was down on Ridge Road near Whiteford	Road.			
-				
A southwest flow around high pressure over the moisture combined with strong surface heatinnessability, and some of the thunderstorms were	g for an unstable atmosphere			-
A southwest flow around high pressure over the moisture combined with strong surface heating instability, and some of the thunderstorms were	g for an unstable atmosphere re severe. 		understorms deve	loped due to the
A southwest flow around high pressure over the moisture combined with strong surface heating instability, and some of the thunderstorms were	g for an unstable atmosphere re severe. .28, -76.69] 08/19/09 15:39 EST		understorms deve	Hail (1.00 in)
A southwest flow around high pressure over the noisture combined with strong surface heating instability, and some of the thunderstorms were strong to the strong surface heating in the strong surface heating in the strong surface heating is some of the surface heating is sufficient to the strong surface heating is sufficient to the strong surface heating is sufficient to the	g for an unstable atmosphere re severe. 		understorms deve	loped due to the
A southwest flow around high pressure over the moisture combined with strong surface heating instability, and some of the thunderstorms were strong to the strong surface heating in the strong surface heating in the strong surface has been surfaced by the surfaced by the surface has been surfaced by the surfac	g for an unstable atmosphere re severe. .28, -76.69] 08/19/09 15:39 EST		understorms deve	Hail (1.00 in)
A southwest flow around high pressure over the noisture combined with strong surface heating instability, and some of the thunderstorms were strong surface heating instability, and some of the thunderstorms were strong in the strong surface heating in the strong surface heating is a southwest strong surface heating in the strong surface heating is a southwest surface heating in the strong surface heating is a southwest surface heating in the strong surface heating is a southwest surface heating in the strong surface heating is a southwest surface heating in the strong surface heating is a southwest surface heatin	g for an unstable atmosphere re severe. 28, -76.69] 08/19/09 15:39 EST 08/19/09 15:39 EST		understorms deve	Hail (1.00 in) Source: Trained Spotter
A southwest flow around high pressure over the moisture combined with strong surface heating instability, and some of the thunderstorms were strong surface heating instability, and some of the thunderstorms were strong in the strong surface heating in the strong surface heating is a south of the strong surface heating in the strong surface heating is a south of the strong surface heating in the strong surface heating is a south of the strong surface heating in the strong surface heating is a south of the strong surface heating in the strong surface heating is a surface heating in the strong surface heating is a surface heating in the strong surface heating is a surface heating in the strong surface heating is a surface heating in the strong surface heating is a surface heating in the strong surface heating is a surface heating in the strong surface heating is a surface heating in the strong surface heating is a surface heating in the strong surface heating is a surface heating in the strong surface heating is a surface heating in the strong surface heating is a surface heating in the strong surface heating is a surface heating in the surface heating in the surface heating is a surface heating in the surface heating in the surface heating is a surface heating in the surface heating in the surface heating is a surface heating in the surface heating in the surface heating is a surface heating in the surface heating in the surface heating is a surface heating in the surface heating in the surface heating is a surface heating in the surface heating in the surface heating in the surfac	g for an unstable atmosphere re severe. 28, -76.69] 08/19/09 15:39 EST 08/19/09 15:39 EST		understorms deve	Hail (1.00 in)
A southwest flow around high pressure over the moisture combined with strong surface heating instability, and some of the thunderstorms were strong surface heating instability, and some of the thunderstorms were strong in the strong surface heating is a surface of the thunderstorms were strong in the strong in the strong in the strong is a surface of the strong in	g for an unstable atmosphere re severe. 28, -76.69] 08/19/09 15:39 EST 08/19/09 15:39 EST F [38.27, -76.66] 08/19/09 15:42 EST 08/19/09 15:42 EST		0 0	Hail (2.75 in)
A southwest flow around high pressure over the noisture combined with strong surface heating instability, and some of the thunderstorms were str. MARY'S COUNTY 0.9 NE COMPTON [38.] Quarter size hail was reported near Compton. Str. MARY'S COUNTY 0.5 W ABELLS WHAR Ping pong to baseball size hail was reported near	g for an unstable atmosphere re severe. 28, -76.69]		0 0	Hail (2.75 in)
A southwest flow around high pressure over the noisture combined with strong surface heating	g for an unstable atmosphere re severe. 28, -76.69]		0 0	Hail (2.75 in)

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Solf ball size hail was reported near Leor	nardtown.		-	
southwest flow around high pressure noisture combined with strong surface nstability, and some of the thunderstor	heating for an unstable atmosphe	· -		
CALVERT COUNTY 1.5 NNW ISLAND				
	08/21/09 14:00 EST 08/21/09 14:00 EST		0 0	Thunderstorm Wind (EG 56 kt) Source: Trained Spotter
Numerous limbs were down and several		causing significant d		Source. Trained Spotter
ST. MARY'S COUNTY 0.2 E MECHAN	1CSVILLE [38.43, -76.73] 08/21/09 17:44 EST		0	Thunderstorm Wind (EG 61 kt)
	08/21/09 17:44 EST		0	Source: Fire Department/Rescue
wo trees were down over Old Village Ro	oad. A chimney was also blown off a	roof.		
REDERICK COUNTY 1.1 SSW DOUB	3S [39.29, -77.53]			
	08/21/09 17:45 EST		0	Thunderstorm Wind (EG 52 kt)
	08/21/09 17:45 EST		0	Source: Fire Department/Rescue
A tree was down at Route 464 and Route	15.			
REDERICK COUNTY 0.5 SSE PLEAS	• •			
	08/21/09 17:50 EST		0	Thunderstorm Wind (EG 52 kt)
	08/21/09 17:50 EST		0	Source: NWS Employee
Several one to two inch branches were de	own along Tuscarora Road.			
REDERICK COUNTY 1.9 ENE TUSC				Thursday May 1/50 5010
	08/21/09 17:56 EST 08/21/09 17:56 EST		0	Thunderstorm Wind (EG 52 kt) Source: NWS Employee
Several six to eight inch trees were down		s one to two inch bra		• •
AONTO MEDIVO QUINTY A ONE DIO	VEDOON 100 00 TT 441			
MONTGOMERY COUNTY 1.2 NE DIC	08/21/09 18:00 EST		0	Thunderstorm Wind (EG 56 kt)
	08/21/09 18:00 EST		0	Source: NWS Employee
One eight inch tree was snapped off abou		ount Ephraim Road	. Twig and leaf deb	
REDERICK COUNTY 1.9 SSW URBA	ANA [39.31, -77.37]			
	08/21/09 18:02 EST		0	Thunderstorm Wind (EG 52 kt)
	08/21/09 18:02 EST		0	Source: NWS Employee
rees and power lines were down along	Thurston Road from Dixon Road to E	Burnt Hickory Circle		
REDERICK COUNTY 3.8 SSE PARK	MILLS [39.25, -77.39] 08/21/09 18:02 EST		0	Thunderstorm Wind (EG 61 kt)
	08/21/09 18:02 EST		0	Source: NWS Employee
six to eight inch diameter tree was snap		inch branches were		• •
REDERICK COUNTY 0.7 N FOUNTA	IN MILLS [39 3477 25]			
REDERIOR COURT I U./ N FOUNTA	08/21/09 18:20 EST		0	Hail (0.75 in)
	08/21/09 18:20 EST		0	Source: NWS Employee
Penny size hail was reported in Green Va	alley.			
	•			

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/21/09 18:30 EST		0	Thunderstorm Wind (EG 50 kt)
	08/21/09 18:30 EST		0	Source: Fire Department/Rescue
tree was down near Daisy.				
HOWARD COUNTY 0.9 ESE WATERSVILL				Thursday Love West (50 50 Lt)
	08/21/09 18:32 EST 08/21/09 18:32 EST		0	Thunderstorm Wind (EG 50 kt) Source: Fire Department/Rescue
	00/21/09 10:32 E31		O	Source. The Department/Nescue
A tree was down along Watersville Road.				
HOWARD COUNTY 1.4 ENE DAISY [39.31,	-77.05] 08/21/09 18:35 EST		0	Thunderstorm Wind (EG 50 kt)
	08/21/09 18:35 EST		0	Source: Fire Department/Rescue
A tree was down along Cars Mill Road.				
BALTIMORE COUNTY 0.9 SE GLYNDON [3	39.46, -76.81]			
	08/21/09 19:13 EST		0	Hail (0.75 in)
	08/21/09 19:13 EST		0	Source: Amateur Radio
Penny size hail was reported in Reisterstown.				
BALTIMORE COUNTY 0.8 WSW BOWLEYS				
	08/21/09 20:45 EST		0	Hail (0.75 in)
	08/21/09 20:45 EST		0	Source: Storm Chaser
A southwest flow between an upper-level low moisture from the Gulf of Mexico. The moist	v over the Great Lakes and hig ure combined with strong surfa	ace heating to pro	duce an unstable	-
A southwest flow between an upper-level lov moisture from the Gulf of Mexico. The moist and thunderstorms developed due to the uns	v over the Great Lakes and hig ure combined with strong surfa stable atmosphere and some th	ace heating to pro nunderstorms wer	duce an unstable a e severe.	atmosphere. Showers
A southwest flow between an upper-level lov moisture from the Gulf of Mexico. The moist and thunderstorms developed due to the uns	v over the Great Lakes and hig ure combined with strong surfa stable atmosphere and some th	ace heating to pro nunderstorms wer	duce an unstable a e severe.	atmosphere. Showers PLAINS [38.59, -76.98], 1.9 W WHITE
A southwest flow between an upper-level lov moisture from the Gulf of Mexico. The moist and thunderstorms developed due to the uns	v over the Great Lakes and hig ure combined with strong surfa stable atmosphere and some th [38.58, -76.99], 2.0 W WHITE PI 08/22/09 16:15 EST	ace heating to pro nunderstorms wer	duce an unstable are severe. 99], 1.8 W WHITE F	atmosphere. Showers
A southwest flow between an upper-level lov moisture from the Gulf of Mexico. The moist and thunderstorms developed due to the uns	w over the Great Lakes and hig ure combined with strong surfa stable atmosphere and some th [38.58, -76.99], 2.0 W WHITE PI	ace heating to pro nunderstorms wer	duce an unstable are severe.	atmosphere. Showers PLAINS [38.59, -76.98], 1.9 W WHITE
A southwest flow between an upper-level lov moisture from the Gulf of Mexico. The moisti and thunderstorms developed due to the uns CHARLES COUNTY 2.2 W WHITE PLAINS PLAINS [38.58, -76.98]	v over the Great Lakes and hig ure combined with strong surfa stable atmosphere and some th [38.58, -76.99], 2.0 W WHITE PI 08/22/09 16:15 EST 08/22/09 18:15 EST	ace heating to pronunderstorms wer	duce an unstable are severe. 99], 1.8 W WHITE F	PLAINS [38.59, -76.98], 1.9 W WHITE Flash Flood (due to Heavy Rain) Source: Emergency Manager
A southwest flow between an upper-level low moisture from the Gulf of Mexico. The moisture and thunderstorms developed due to the unsured that the country 2.2 W WHITE PLAINS PLAINS [38.58, -76.98] Turkey Hill Road was closed due to water flow and a Rundel Country 1.1 ENE SUDLE	v over the Great Lakes and hig ure combined with strong surfa- stable atmosphere and some th [38.58, -76.99], 2.0 W WHITE PI 08/22/09 16:15 EST 08/22/09 18:15 EST ing over the roadway. Spotter in	ace heating to pronunderstorms wer LAINS [38.59, -76.5] the area reported	duce an unstable of severe. 99], 1.8 W WHITE F 0 0 rainfall total of 3.74	PLAINS [38.59, -76.98], 1.9 W WHITE Flash Flood (due to Heavy Rain) Source: Emergency Manager
A southwest flow between an upper-level low moisture from the Gulf of Mexico. The moisture and thunderstorms developed due to the unsured that the country 2.2 W WHITE PLAINS PLAINS [38.58, -76.98] Turkey Hill Road was closed due to water flow and a Rundel Country 1.1 ENE SUDLE	v over the Great Lakes and hig ure combined with strong surfa- stable atmosphere and some th [38.58, -76.99], 2.0 W WHITE PI 08/22/09 16:15 EST 08/22/09 18:15 EST ing over the roadway. Spotter in	ace heating to pronunderstorms wer LAINS [38.59, -76.5] the area reported	duce an unstable of severe. 99], 1.8 W WHITE F 0 0 rainfall total of 3.74	PLAINS [38.59, -76.98], 1.9 W WHITE Flash Flood (due to Heavy Rain) Source: Emergency Manager
Penny size hail was reported near Bowleys Qu A southwest flow between an upper-level low moisture from the Gulf of Mexico. The moistur and thunderstorms developed due to the uns CHARLES COUNTY 2.2 W WHITE PLAINS PLAINS [38.58, -76.98] Turkey Hill Road was closed due to water flowing ANNE ARUNDEL COUNTY 1.1 ENE SUDLE CUMBERSTONE [38.84, -76.56]	v over the Great Lakes and hig ure combined with strong surfa- stable atmosphere and some th [38.58, -76.99], 2.0 W WHITE PI 08/22/09 16:15 EST 08/22/09 18:15 EST ing over the roadway. Spotter in	ace heating to pronunderstorms wer LAINS [38.59, -76.5] the area reported	duce an unstable of severe. 99], 1.8 W WHITE F 0 0 rainfall total of 3.74	PLAINS [38.59, -76.98], 1.9 W WHITE Flash Flood (due to Heavy Rain) Source: Emergency Manager Finches. RSTONE [38.84, -76.56], 1.2 SSW
A southwest flow between an upper-level low moisture from the Gulf of Mexico. The moisture and thunderstorms developed due to the unsured that the country 2.2 W WHITE PLAINS PLAINS [38.58, -76.98] Turkey Hill Road was closed due to water flow and the country 1.1 ENE SUDLE	v over the Great Lakes and higher combined with strong surfactable atmosphere and some the [38.58, -76.99], 2.0 W WHITE PI 08/22/09 16:15 EST 08/22/09 18:15 EST ing over the roadway. Spotter in EY [38.83, -76.56], 1.0 ENE SUD 08/22/09 17:00 EST 08/22/09 20:15 EST	the area reported	duce an unstable of severe. 99], 1.8 W WHITE F 0 0 rainfall total of 3.74 0 1, 1.3 SW CUMBER 0 0	PLAINS [38.59, -76.98], 1.9 W WHITE Flash Flood (due to Heavy Rain) Source: Emergency Manager Finches. RSTONE [38.84, -76.56], 1.2 SSW Flash Flood (due to Heavy Rain) Source: Emergency Manager
A southwest flow between an upper-level low moisture from the Gulf of Mexico. The moists and thunderstorms developed due to the unsured that the state of the second secon	v over the Great Lakes and higher combined with strong surfactable atmosphere and some the [38.58, -76.99], 2.0 W WHITE PI 08/22/09 16:15 EST 08/22/09 18:15 EST ing over the roadway. Spotter in EY [38.83, -76.56], 1.0 ENE SUD 08/22/09 17:00 EST 08/22/09 20:15 EST olly Landing was closed due to find	the area reported LEY [38.83, -76.56 ash flooding. Rainf	duce an unstable of severe. 99], 1.8 W WHITE F 0 0 rainfall total of 3.74 1], 1.3 SW CUMBER 0 0 call measurement of	PLAINS [38.59, -76.98], 1.9 W WHITE Flash Flood (due to Heavy Rain) Source: Emergency Manager Finches. RSTONE [38.84, -76.56], 1.2 SSW Flash Flood (due to Heavy Rain) Source: Emergency Manager f 4.25 inches near the event reported by
A southwest flow between an upper-level low moisture from the Gulf of Mexico. The moistnand thunderstorms developed due to the unsured that the country 2.2 W WHITE PLAINS PLAINS [38.58, -76.98] Turkey Hill Road was closed due to water flow that the country 1.1 ENE SUDLE CUMBERSTONE [38.84, -76.56] The intersection of Muddy Creek Road and Ho COCORAHS network.	v over the Great Lakes and higher combined with strong surfactable atmosphere and some the [38.58, -76.99], 2.0 W WHITE PI 08/22/09 16:15 EST 08/22/09 18:15 EST ing over the roadway. Spotter in EY [38.83, -76.56], 1.0 ENE SUD 08/22/09 17:00 EST 08/22/09 20:15 EST olly Landing was closed due to find the combined of th	the area reported LEY [38.83, -76.56 ash flooding. Rainf	duce an unstable of severe. 99], 1.8 W WHITE F 0 0 rainfall total of 3.74 1], 1.3 SW CUMBER 0 0 fall measurement of 5.76.53], 0.2 WNW	PLAINS [38.59, -76.98], 1.9 W WHITE Flash Flood (due to Heavy Rain) Source: Emergency Manager inches. RSTONE [38.84, -76.56], 1.2 SSW Flash Flood (due to Heavy Rain) Source: Emergency Manager f 4.25 inches near the event reported by CHESAPEAKE BEACH [38.68, -76.53],
A southwest flow between an upper-level low moisture from the Gulf of Mexico. The moisting and thunderstorms developed due to the unstand thunderstorms developed due to the unstanding the country 2.2 W WHITE PLAINS PLAINS [38.58, -76.98] Turkey Hill Road was closed due to water flow and ANNE ARUNDEL COUNTY 1.1 ENE SUDLE CUMBERSTONE [38.84, -76.56] The intersection of Muddy Creek Road and Hococorahs network.	v over the Great Lakes and higher combined with strong surfastable atmosphere and some the [38.58, -76.99], 2.0 W WHITE PI 08/22/09 16:15 EST 08/22/09 18:15 EST ing over the roadway. Spotter in EY [38.83, -76.56], 1.0 ENE SUD 08/22/09 17:00 EST 08/22/09 20:15 EST oldy Landing was closed due to flat the combined by the combined with strong surface with the combined with strong surface with the combined wit	the area reported LEY [38.83, -76.56 ash flooding. Rainf	duce an unstable at e severe. 99], 1.8 W WHITE F 0 0 rainfall total of 3.74 1], 1.3 SW CUMBEF 0 0 all measurement of 5.76.53], 0.2 WNW	PLAINS [38.59, -76.98], 1.9 W WHITE Flash Flood (due to Heavy Rain) Source: Emergency Manager Finches. RSTONE [38.84, -76.56], 1.2 SSW Flash Flood (due to Heavy Rain) Source: Emergency Manager f 4.25 inches near the event reported by CHESAPEAKE BEACH [38.68, -76.53], Flash Flood (due to Heavy Rain)
A southwest flow between an upper-level low moisture from the Gulf of Mexico. The moisture and thunderstorms developed due to the unstand the county 2.2 W WHITE PLAINS PLAINS [38.58, -76.98] Turkey Hill Road was closed due to water flow anne Arundel County 1.1 ENE SUDLE CUMBERSTONE [38.84, -76.56] The intersection of Muddy Creek Road and Hococorahs network. CALVERT COUNTY 0.7 SW NORTH BEACT 0.6 W CHESAPEAKE BEACH [38.68, -76.54]	w over the Great Lakes and high are combined with strong surfactable atmosphere and some the [38.58, -76.99], 2.0 W WHITE PI 08/22/09 16:15 EST 08/22/09 18:15 EST ing over the roadway. Spotter in EY [38.83, -76.56], 1.0 ENE SUD 08/22/09 17:00 EST 08/22/09 20:15 EST olly Landing was closed due to find the company of the	the area reported LEY [38.83, -76.56 ash flooding. Rainf	duce an unstable at e severe. 99], 1.8 W WHITE F 0 0 rainfall total of 3.74 6], 1.3 SW CUMBER 0 0 call measurement of 5, -76.53], 0.2 WNW 0 0	PLAINS [38.59, -76.98], 1.9 W WHITE Flash Flood (due to Heavy Rain) Source: Emergency Manager Finches. RSTONE [38.84, -76.56], 1.2 SSW Flash Flood (due to Heavy Rain) Source: Emergency Manager f 4.25 inches near the event reported by CHESAPEAKE BEACH [38.68, -76.53], Flash Flood (due to Heavy Rain) Source: Emergency Manager
A southwest flow between an upper-level low moisture from the Gulf of Mexico. The moisture and thunderstorms developed due to the unstand the county 2.2 W WHITE PLAINS PLAINS [38.58, -76.98] Turkey Hill Road was closed due to water flow anne ARUNDEL COUNTY 1.1 ENE SUDLE CUMBERSTONE [38.84, -76.56] The intersection of Muddy Creek Road and Hococorahs network. CALVERT COUNTY 0.7 SW NORTH BEACT 0.6 W CHESAPEAKE BEACH [38.68, -76.54]	w over the Great Lakes and high are combined with strong surfactable atmosphere and some the [38.58, -76.99], 2.0 W WHITE PI 08/22/09 16:15 EST 08/22/09 18:15 EST ing over the roadway. Spotter in EY [38.83, -76.56], 1.0 ENE SUD 08/22/09 17:00 EST 08/22/09 20:15 EST olly Landing was closed due to find the company of the	the area reported LEY [38.83, -76.56 ash flooding. Rainf	duce an unstable at e severe. 99], 1.8 W WHITE F 0 0 rainfall total of 3.74 6], 1.3 SW CUMBER 0 0 call measurement of 5, -76.53], 0.2 WNW 0 0	PLAINS [38.59, -76.98], 1.9 W WHITE Flash Flood (due to Heavy Rain) Source: Emergency Manager Finches. RSTONE [38.84, -76.56], 1.2 SSW Flash Flood (due to Heavy Rain) Source: Emergency Manager f 4.25 inches near the event reported by CHESAPEAKE BEACH [38.68, -76.53], Flash Flood (due to Heavy Rain) Source: Emergency Manager
A southwest flow between an upper-level low moisture from the Gulf of Mexico. The moistuand thunderstorms developed due to the unsured that the country 2.2 W WHITE PLAINS PLAINS [38.58, -76.98] Turkey Hill Road was closed due to water flow the country 1.1 ENE SUDLE CUMBERSTONE [38.84, -76.56] The intersection of Muddy Creek Road and Hococorahus network. CALVERT COUNTY 0.7 SW NORTH BEACT [0.6 W CHESAPEAKE BEACH [38.68, -76.54] Numerous roads closed in Chesapeake Beach CALVERT COUNTY 0.9 WSW OWINGS [38.58]	v over the Great Lakes and high ure combined with strong surfactable atmosphere and some the [38.58, -76.99], 2.0 W WHITE PI 08/22/09 16:15 EST 08/22/09 18:15 EST ing over the roadway. Spotter in EY [38.83, -76.56], 1.0 ENE SUD 08/22/09 17:00 EST 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 17:00 EST 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 17:00 EST 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 17:00 EST 08/22/09 17:00 EST 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 17:00 EST 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 17:00 EST 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08	the area reported LEY [38.83, -76.56 ash flooding. Rainf TH BEACH [38.69.	duce an unstable are severe. 99], 1.8 W WHITE F 0 0 rainfall total of 3.74 1], 1.3 SW CUMBEF 0 0 raill measurement of 5.76.53], 0.2 WNW 0 0 tes reported by CO	PLAINS [38.59, -76.98], 1.9 W WHITE Flash Flood (due to Heavy Rain) Source: Emergency Manager Finches. RSTONE [38.84, -76.56], 1.2 SSW Flash Flood (due to Heavy Rain) Source: Emergency Manager f 4.25 inches near the event reported by CHESAPEAKE BEACH [38.68, -76.53], Flash Flood (due to Heavy Rain) Source: Emergency Manager CORAHS observer.
A southwest flow between an upper-level low moisture from the Gulf of Mexico. The moisting and thunderstorms developed due to the unstand thunderstorms developed due to the unstanding the country 2.2 W WHITE PLAINS PLAINS [38.58, -76.98] Turkey Hill Road was closed due to water flow and ANNE ARUNDEL COUNTY 1.1 ENE SUDLE CUMBERSTONE [38.84, -76.56] The intersection of Muddy Creek Road and Hococorahs network.	v over the Great Lakes and high ure combined with strong surfactable atmosphere and some the [38.58, -76.99], 2.0 W WHITE PI 08/22/09 16:15 EST 08/22/09 18:15 EST ing over the roadway. Spotter in EY [38.83, -76.56], 1.0 ENE SUD 08/22/09 17:00 EST 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 17:00 EST 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 17:00 EST 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 17:00 EST 08/22/09 17:00 EST 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 17:00 EST 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08/22/09 17:00 EST 08/22/09 20:15 EST on [38.69, -76.54], 0.5 SSW NOR 08	the area reported LEY [38.83, -76.56 ash flooding. Rainf TH BEACH [38.69.	duce an unstable are severe. 99], 1.8 W WHITE F 0 0 rainfall total of 3.74 1], 1.3 SW CUMBEF 0 0 raill measurement of 5.76.53], 0.2 WNW 0 0 tes reported by CO	PLAINS [38.59, -76.98], 1.9 W WHITE Flash Flood (due to Heavy Rain) Source: Emergency Manager Finches. RSTONE [38.84, -76.56], 1.2 SSW Flash Flood (due to Heavy Rain) Source: Emergency Manager f 4.25 inches near the event reported by CHESAPEAKE BEACH [38.68, -76.53], Flash Flood (due to Heavy Rain) Source: Emergency Manager CORAHS observer.

Numerous roads south of Owings closed due to flash flooding. Spotter report of 4.32 inches of rain just to the west of the event.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CALVERT COUNTY 1.0 NW NORTH BEA	CH [38.71, -76.55], 0.5 NNW NOF	RTH BEACH [38.71	l, -76.53], 0.5 NNW	NORTH BEACH [38.71, -76.53], 0.9
WNW NORTH BEACH [38.71, -76.55]	00/00/00 47:00 FOT		•	Florit Florid (due to House Baire)
	08/22/09 17:00 EST 08/22/09 20:15 EST		0	Flash Flood (due to Heavy Rain) Source: Emergency Manager
				, ,
Several roads between 3rd Street and 6th St	treet were closed in North Beach.	Spotter reported 6	.35 inches of rain in	n North Beach.
ANNE ARUNDEL COUNTY 1.5 SSE CRO	WNSVILLE [39.01, -76.59], 1.8 SE	CROWNSVILLE	[39.01, -76.58], 1.8	NNE LUSBY XRDS [39.00, -76.58], 1.6
NNE LUSBY XRDS [39.00, -76.59]	08/22/09 17:18 EST		0	Flash Flood (due to Heavy Rain)
	08/22/09 19:00 EST		0	Source: Emergency Manager
The intersection of Crownsville Road and Ho	oneysuckle Lane was closed due t	o flash flooding.		
ANNE ARUNDEL COUNTY 0.5 N PAROL	E [38.99, -76.53], 0.5 N PAROLE	[38.99, -76.53], 0.3	NW PAROLE [38.	98, -76.53], 0.4 NW PAROLE [38.98,
-76.53]	08/22/09 17:45 EST		0	Flash Flood (due to Heavy Rain)
	08/22/09 17:43 EST		0	Source: Law Enforcement
Flash flooding reported on Hudson Street. S	potter reported 5.25 inches of rain	just east of event.		
ANNE ARUNDEL COUNTY 1.2 WNW LUS	SBY XRDS [38.99, -76.62], 0.7 NN	E LUSBY XRDS [38.99, -76.60], 0.3 N	NNE LUSBY XRDS [38.98, -76.60], 0.9
NNE RUTLAND [30.30, -/ 0.02]	08/22/09 17:45 EST		0	Flash Flood (due to Heavy Rain)
	08/22/09 20:15 EST		0	Source: Law Enforcement
SOUTH RIVER [38.92, -76.60]	08/22/09 17:45 EST		0	Flash Flood (due to Heavy Rain)
	08/22/09 20:15 EST		0	Source: Law Enforcement
Road near the intersection of Route 214 and	Beard's Point was closed due to	flash flooding. Spo	tter reported 2.96 i	nches of rain near the event.
With the Mid-Atlantic States sandwiched by offshore, an extremely moist atmosphere is east-northeastward toward lower southern thunderstorms that produced heavy rain as 6.35 inches in North Beach.	n place. A mesoscale area of low Maryland during the late afterno	v pressure formed oon and evening o	over central Virgi of the 22nd, produc	inia and worked ce a wide area of rain and
ST. MARY'S COUNTY 1.0 SE ST GEORG				
	08/24/09 04:12 EST		0	Thunderstorm Wind (EG 52 kt)
A wind gust was estimated ground 60 mph	08/24/09 04:12 EST		0	Source: Trained Spotter
A wind gust was estimated around 60 mph.				
A trough of low pressure provided cooler a atmosphere. Scattered showers and thund unstable atmosphere.		_	_	•
CARROLL COUNTY 1.0 E BARRETT [39.	.40, -77.00], 0.8 SW FLOHRVILLE	[39.41, -76.99], 0.	7 SW FLOHRVILLI	E [39.41, -76.99], 1.1 E BARRETT
[39.40, -77.00]	08/27/09 23:45 EST		0	Flash Flood (due to Heavy Rain)
	08/28/09 00:45 EST		0	Source: Emergency Manager
Flash flooding reported on White Rock Road	as well as report of flooded base	ment. Piney Run If	FLOWS gauge mea	asured 2.72 inches of rainfall.
BALTIMORE COUNTY 0.2 NNE ST GEOF	RGES [39.45, -76.80], 0.5 NNE ST	GEORGES [39.46	, -76.80], 0.6 NNE	ST GEORGES [39.46, -76.80], 0.3 NE ST
GEORGES [39.45, -76.80]	09/29/00 00:05 FST	L		Flood (due to Llegay Pain)

08/28/09 00:05 EST

08/28/09 01:30 EST

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Flash Flood (due to Heavy Rain)

Source: Emergency Manager

0

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Flash flooding reported at Timber Grove Ro	ad near Owings Mills Blvd. Spotter	reported 2.71 inch	es of rain near the	event.
BALTIMORE COUNTY 1.0 N DELIGHT [39.44, -76.82], 0.9 WSW ST GEOR	GES [39.45, -76.82], 0.9 WSW ST GE	ORGES [39.45, -76.81], 0.8 N DELIGHT
[39.44, -76.82]	08/28/09 00:05 EST		0	Flash Flood (due to Heavy Rain)
	08/28/09 01:30 EST		0	Source: Emergency Manager
A vehicle was stranded in 4 feet of water on		Road.	v	Course. Emergency manager
HARFORD COUNTY 0.5 ENE ABERDEE ABERDEEN ARPT [39.50, -76.17]	N ARPT [39.50, -76.17], 0.6 E ABE	RDEEN ARPT [39	.50, -76.17], 0.6 E	ABERDEEN ARPT [39.50, -76.17], 0.4 E
ADERIO ELIVARIA 1 [00:00, -70:17]	08/28/09 00:30 EST		0	Flash Flood (due to Heavy Rain)
	08/28/09 04:30 EST		0	Source: Law Enforcement
Three people rescued and two cars pulled for eported on Aberdeen Proving Ground.	rom flood waters flowing over the ir	ntersection of U.S.	Hwy. 40 and Route	e 7. Rainfall total of 7.25 inches
HARFORD COUNTY 0.2 SSW STEPNEY	[39.48, -76.20], 0.7 NE STEPNEY	[39.49, -76.19], 0.8	NE STEPNEY [39	.49, -76.19], 0.3 SSE STEPNEY [39.48,
76.20]	08/28/09 00:35 EST		0	Flash Flood (due to Heavy Rain)
	08/28/09 04:30 EST		0	Source: Emergency Manager
			U	Course. Emergency manager
Route 159 near Cranberry Road closed due	to swift water over the roadway.			
HARFORD COUNTY BELCAMP [39.47,	76.23], 0.4 WSW BELCAMP [39.47	7, -76.24], 0.4 W BI	ELCAMP [39.47, -7	76.24], 0.3 NNW BELCAMP [39.47,
76.23]			•	Floor Floor (due to Lloon, Doin)
10.20]	08/28/00 00:45 EST			
·	08/28/09 00:45 EST 08/28/09 04:30 EST ntersection of U.S. Hwy. 40 and Ro	oute 543.	0	Flash Flood (due to Heavy Rain) Source: Law Enforcement
Nater was flowing over the roadway at the i	08/28/09 04:30 EST Intersection of U.S. Hwy. 40 and Ro I [39.46, -76.28], 0.6 SW ABINGDO		0 D.9 SW ABINGDON	Source: Law Enforcement N [39.46, -76.28], 0.9 SW ABINGDON
Nater was flowing over the roadway at the i	08/28/09 04:30 EST Intersection of U.S. Hwy. 40 and Ro 1 [39.46, -76.28], 0.6 SW ABINGDO 08/28/09 01:15 EST		0 0.9 SW ABINGDON	Source: Law Enforcement N [39.46, -76.28], 0.9 SW ABINGDON Flash Flood (due to Heavy Rain)
Nater was flowing over the roadway at the i	08/28/09 04:30 EST Intersection of U.S. Hwy. 40 and Ro I [39.46, -76.28], 0.6 SW ABINGDO		0 D.9 SW ABINGDON	Source: Law Enforcement N [39.46, -76.28], 0.9 SW ABINGDON
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Water was flowing over the roadway at the in HARFORD COUNTY 0.7 SW ABINGDON [39.46, -76.28] Route 7 near Abingdon Road closed due to CARROLL COUNTY 1.8 SE GUNPOWDE	08/28/09 04:30 EST Intersection of U.S. Hwy. 40 and Ro [39.46, -76.28], 0.6 SW ABINGDO 08/28/09 01:15 EST 08/28/09 04:30 EST high water. ER [39.70, -76.81], 1.9 SE GUNPOV 08/28/09 20:40 EST	N [39.46, -76.28], (0 0.9 SW ABINGDON 0 0 0 0 0 0 0 0 0 0 0 0 0	Source: Law Enforcement N [39.46, -76.28], 0.9 SW ABINGDON Flash Flood (due to Heavy Rain) Source: Emergency Manager IA [39.69, -76.80], 1.4 NE ALESIA [39.69, Flash Flood (due to Heavy Rain)
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Water was flowing over the roadway at the in HARFORD COUNTY 0.7 SW ABINGDON [39.46, -76.28] Route 7 near Abingdon Road closed due to CARROLL COUNTY 1.8 SE GUNPOWDE76.81] Gunpowder River out of it banks onto Grave	08/28/09 04:30 EST Intersection of U.S. Hwy. 40 and Ro [39.46, -76.28], 0.6 SW ABINGDO 08/28/09 01:15 EST 08/28/09 04:30 EST high water. ER [39.70, -76.81], 1.9 SE GUNPOV 08/28/09 20:40 EST 08/28/09 23:30 EST	N [39.46, -76.28], (VDER [39.70, -76.8	0 0.9 SW ABINGDON 0 0 0 0 0 0 0 0 0 0 0 0 0	Source: Law Enforcement N [39.46, -76.28], 0.9 SW ABINGDON Flash Flood (due to Heavy Rain) Source: Emergency Manager IA [39.69, -76.80], 1.4 NE ALESIA [39.69, Flash Flood (due to Heavy Rain) Source: COOP Observer
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Water was flowing over the roadway at the interpretation of the roadway at the roadway at the interpretation of the roadway at	08/28/09 04:30 EST Intersection of U.S. Hwy. 40 and Roll [39.46, -76.28], 0.6 SW ABINGDO 08/28/09 01:15 EST 08/28/09 04:30 EST high water. ER [39.70, -76.81], 1.9 SE GUNPOV 08/28/09 20:40 EST 08/28/09 23:30 EST ER Run Road around River Road Rail Spotter reported rainfall total of 6.46	N [39.46, -76.28], 0 VDER [39.70, -76.8 nch. River Road Road	0 D.9 SW ABINGDON 0 0 0 0 0 0.20M 0 anch inundated, wi	Source: Law Enforcement N [39.46, -76.28], 0.9 SW ABINGDON Flash Flood (due to Heavy Rain) Source: Emergency Manager IA [39.69, -76.80], 1.4 NE ALESIA [39.69, Flash Flood (due to Heavy Rain) Source: COOP Observer Ith damage to buildings. Vehicles washed OWDER [39.71, -76.86], 2.0 WSW
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Water was flowing over the roadway at the in HARFORD COUNTY 0.7 SW ABINGDON (39.46, -76.28) Route 7 near Abingdon Road closed due to CARROLL COUNTY 1.8 SE GUNPOWDE (76.81) Gunpowder River out of it banks onto Grave into and down the river from flash flooding. (CARROLL COUNTY 2.3 W GUNPOWDE GUNPOWDER [39.71, -76.86] Water up to 40 inches high on Black Rock F	08/28/09 04:30 EST Intersection of U.S. Hwy. 40 and Roll [39.46, -76.28], 0.6 SW ABINGDO 08/28/09 01:15 EST 08/28/09 04:30 EST high water. ER [39.70, -76.81], 1.9 SE GUNPOV 08/28/09 20:40 EST 08/28/09 23:30 EST ER Run Road around River Road Rail Spotter reported rainfall total of 6.40 ER [39.72, -76.87], 1.8 W GUNPOWI 08/28/09 21:05 EST 08/28/09 23:30 EST	N [39.46, -76.28], 0 VDER [39.70, -76.86] nch. River Road R: 3.	0 0.9 SW ABINGDON 0 0 0 0 0 0 0 0 1.7 ENE ALES 0.20M 0 anch inundated, wi	Source: Law Enforcement N [39.46, -76.28], 0.9 SW ABINGDON Flash Flood (due to Heavy Rain) Source: Emergency Manager IA [39.69, -76.80], 1.4 NE ALESIA [39.69, Flash Flood (due to Heavy Rain) Source: COOP Observer Ith damage to buildings. Vehicles washed OWDER [39.71, -76.86], 2.0 WSW Flash Flood (due to Heavy Rain) Source: Trained Spotter
Water was flowing over the roadway at the in HARFORD COUNTY 0.7 SW ABINGDON (39.46, -76.28) Route 7 near Abingdon Road closed due to CARROLL COUNTY 1.8 SE GUNPOWDE (76.81) Gunpowder River out of it banks onto Grave into and down the river from flash flooding. (CARROLL COUNTY 2.3 W GUNPOWDE GUNPOWDER [39.71, -76.86] Water up to 40 inches high on Black Rock F	08/28/09 04:30 EST Intersection of U.S. Hwy. 40 and Roll [39.46, -76.28], 0.6 SW ABINGDO 08/28/09 01:15 EST 08/28/09 04:30 EST high water. ER [39.70, -76.81], 1.9 SE GUNPOW 08/28/09 20:40 EST 08/28/09 23:30 EST R Run Road around River Road Rail Spotter reported rainfall total of 6.40 ER [39.72, -76.87], 1.8 W GUNPOWI 08/28/09 21:05 EST 08/28/09 23:30 EST Road. ER [39.71, -76.85], 0.7 SSW GUNPOWI	N [39.46, -76.28], 0 VDER [39.70, -76.86] nch. River Road R: 3.	0 0.9 SW ABINGDON 0 0 0 0 0 0 0 1.7 ENE ALES 0.20M 0 anch inundated, wi	Source: Law Enforcement N [39.46, -76.28], 0.9 SW ABINGDON Flash Flood (due to Heavy Rain) Source: Emergency Manager IA [39.69, -76.80], 1.4 NE ALESIA [39.69, Flash Flood (due to Heavy Rain) Source: COOP Observer Ith damage to buildings. Vehicles washed OWDER [39.71, -76.86], 2.0 WSW Flash Flood (due to Heavy Rain) Source: Trained Spotter

Moisture streaming northeastward from an upper low over the Deep South with additional moisture from Tropical Storm Danny off the North Carolina coast pooled up against a stationary boundary near the Mason-Dixon Line. Several Rounds of heavy rain-producing showers and thunderstorms pushed eastward along this boundary from the early morning hours through the evening of the 28th. This

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Location Date/Time Deaths & Property & Event Type and Details

Injuries Crop Dmg

produced flash flooding over northeast Maryland. Numerous reports of rainfall totals of 3 to 5 inches, with isolated reports of over 7 inches in southeastern Harford and north central Carroll counties.

VIRGINIA, North

SHENANDOAH COUNTY --- 1.5 SSE CALVARY [38.85, -78.54], 1.8 SW SAUMSVILLE [38.91, -78.52], 2.2 S MAURERTOWN [38.90, -78.45], 3.0 ESE WOODSTOCK [38.86, -78.47]

 08/17/09 20:25 EST
 0
 Flash Flood (due to Heavy Rain)

 08/17/09 23:55 EST
 0
 Source: Law Enforcement

Many roads were closed in Woodstock as a result of high water or debris from flash flooding. At least 6 basements were flooded and had to be pumped. IFLOWS gauge at Burnshire Dam reported 5.24 inches of rain in 3 hour period.

Daytime heating combined with a typical summertime moist and unstable air mass to allow for isolated late afternoon convection to develop over the higher elevations of northwest Virginia. Easterly flow at the low levels helped raised precipitable water values and lower storm motion enough to produce isolated flash flooding over the central Shenandoah Valley during the evening as the thunderstorms drifted eastward over lower elevations.

EDEDEDICK COLINTY	0.5 W BURNING KNOLLS	120 17 79 1/1
FREDERICK COUNT I	U.3 W BURNING KNULLS	139.17, -70.14

08/21/09 16:28 EST 0 Hail (0.88 in) 08/21/09 16:28 EST 0 Source: Amateur Radio

Nickel size hail was reported near Winchester.

LOUDOUN COUNTY --- 0.7 SSW NEERSVILLE [39.26, -77.73]

08/21/09 17:20 EST 0 Thunderstorm Wind (EG 50 kt) 08/21/09 17:20 EST 0 Source: Fire Department/Rescue

Power lines were down along Harpers Ferry Road in Neersville.

LOUDOUN COUNTY --- 1.5 WNW LINCOLN [39.13, -77.70]

08/21/09 17:26 EST 0 Thunderstorm Wind (EG 50 kt) 08/21/09 17:26 EST 0 Source: NWS Employee

A large tree was down at the intersection of 9th Street and Maple Avenue.

LOUDOUN COUNTY --- 0.2 WSW LUCKETTS [39.22, -77.53]

 08/21/09 17:47 EST
 0
 Thunderstorm Wind (EG 52 kt)

 08/21/09 17:47 EST
 0
 Source: NWS Employee

A tree was down just north of Lucketts along US Highway 15.

A southwest flow between an upper-level low over the Great Lakes and high pressure over the western Atlantic ushered in plenty of moisture from the Gulf of Mexico. The moisture combined with strong surface heating to produce an unstable atmosphere. Showers and thunderstorms developed due to the unstable atmosphere and a few thunderstorms were severe.

WEST VIRGINIA, East

BERKELEY COUNTY --- 0.5 W JONES SPGS [39.48, -78.11]

 08/02/09 05:11 EST
 0
 Thunderstorm Wind (EG 61 kt)

 08/02/09 05:11 EST
 0
 Source: Trained Spotter

Several trees were uprooted from thunderstorm winds in the Jones Springs area.

A cold front passed through the region on the morning of the 2nd. A southwest flow ahead of the front provided an unstable atmosphere. An isolated thunderstorm associated with the cold front did become severe due to the instability and strong winds aloft.

JEFFERSON COUNTY --- 0.5 E KABLETOWN [39.22, -77.84]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/21/09 17:00 EST		0	Thunderstorm Wind (EG 52 kt)
	08/21/09 17:00 EST		0	Source: Trained Spotter

A wind gust was estimated around 60 mph.

A southwest flow between an upper-level low over the Great Lakes and high pressure over the western Atlantic ushered in plenty of moisture from the Gulf of Mexico. The moisture combined with strong surface heating to produce an unstable atmosphere. Showers and thunderstorms developed due to the unstable atmosphere and an isolated thunderstorm did produce damaging winds.

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