

Storm Data and Unusual Weather Phenomena

September 2004

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

ANZ533 Cove Pt			Chesapeake Bay N Beach To Drum Pt Md						
	11	1312EST			0	0			Waterspout
	The U.S. Coast Guard and Calvert County Emergency Officials reported sightings of waterspouts just northeast of Cove Point.								
ANZ537 Lewisetta			Tidal Potomac Cobb Is Md To Smith Pt Va						
	17	2224EST			0	0			Marine Tstm Wind (MG35)
ANZ534 Solomons Island			Chesapeake Bay Drum Pt To Smith Pt Va						
	28	1454EST			0	0			Marine Tstm Wind (MG35)
ANZ533 1 W Drum Pt			Chesapeake Bay N Beach To Drum Pt Md						
	28	1500EST			0	0			Waterspout
ANZ534 16 SE Patuxent River Na			Chesapeake Bay Drum Pt To Smith Pt Va						
	28	1615EST			0	0			Marine Tstm Wind (EG35)

MARYLAND, Central

Charles County

6 SW La Plata to 2.5 S Indian Head	08	1158EST 1207EST	5	150	0	0	65K		Tornado (F1)
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A tornado touched down about 1 mile south of Garden Estates (about 6 miles sw of La Plata) on Biggs Farm Road. Several shelters and storage facilities were damaged or destroyed. Numerous trees, up to 2 feet in diameter, were either uprooted or topped. A large recreational van parked in front of a log-style home was overturned and at least 3 other automobiles were damaged from falling trees and debris. Then several homes sustained damage from felled trees, lost shingles, or suffered torn siding. A second touch down of the tornado brought damage to the Indian Head area, in west Charles County. 20 to 30 large trees, up to 3 feet in diameter, were uprooted. The total track length of the combined touchdowns was about 5 miles.

Montgomery County

Bethesda	08	1345EST 1355EST			0	0	5K		Thunderstorm Wind (EG60)
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Trees and wires down in Bethesda, Silver Spring, Rockville, Kensington, and Laytonsville.

Allegany County

Westernport	08	1635EST 2030EST			0	0			Flash Flood
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Roads closed due to high water.

Washington County

Forest Park	08	1930EST 2230EST			0	0	25K		Flash Flood
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McFarland road washed out.

MDZ002

Allegany	08	2030EST 2330EST			0	0	100K		Flood
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The remnants of Hurricane Frances produced damaging winds, tornadoes and flooding in the Mid Atlantic Region on the 8th. The region was troubled with felled trees, downed power lines, washed out roads, and streams/creeks that overflowed their banks. Allegany and Washington Counties were especially hard hit according to emergency personnel. 7 inches of rain fell in the western Panhandle of Maryland. In Allegany County Georges Creek rose out of its bank between Frostburg and Western Port. Route 135 was closed for buckling due to high water. Several bridges were under water and around 20 basements were flooded. Students were held in schools for an extra 1 1/2 hours due to inclement weather on the 8th and some schools were closed on the 9th. In Washington County a mudslide washed out a section of west bound Maryland road MD-144.

Harford County

Pylesville	17	0300EST			0	0	10K		Thunderstorm Wind (EG70)
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Thunderstorm winds downed trees and power lines in Harford County. The thunderstorm also produced a tornado in this area early on the morning on the 18th.

Frederick County

.5 NW Brunswick to Burkittsville	17	1710EST 1717EST	3	150	0	0	200K		Tornado (F1)
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An F1 tornado produced structural damage to a couple of homes near Brunswick. A few buildings and out buildings were destroyed. Other structures sustained roof damage, and some trees were downed or stripped. The tornado damage continued to the north along Route 17 for approximately 3 miles before lifting at Burkittsville.

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MARYLAND, Central

Washington County

Boonsboro	17	1725EST 1728EST	1	75	0	0	120K		Tornado (F0)
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A thunderstorm moved out of Frederick County into Washington County. This thunderstorm produced an F0 tornado near Boonsboro. The storm felled trees in Boonsboro, and the trees damaged five homes.

Montgomery County

2 WSW Poolesville to Beallsville	17	1735EST 1739EST	1	200	0	0	120K		Tornado (F1)
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A thunderstorm moved north out of Loudoun County, Virginia into Montgomery County, Maryland. A tornado touched down and damaged a few structures in the Poolesville area and snapped and uprooted trees in the wooded area and farm land leading to Beallsville.

Charles County

Maryland Pt to 3 N Maryland Pt	17	1742EST 1747EST	3	100	0	0	10K		Tornado (F0)
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A weak tornado touched down in southwest Charles County Maryland near Maryland Point. The tornado downed numerous trees near the Merrick 4-H Campground. It traveled north and downed trees along Williams Farm Place and American Beauty Place. The tornado dissipated shortly after uprooting trees near the intersection of Maryland Point and Smith Point Roads.

Frederick County

1 E Adamstown to Frederick	17	1754EST 1805EST	7	100	0	0	50K		Tornado (F1)
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An F1 tornado touched down in south central Frederick County, just east of Adamstown. The storm traveled north and produced minor structural damage. It blew out windows, tore shingles off a couple of roofs, and caused a chimney to collapse. The tornado also uprooted and sheared several large softwood and hardwood trees.

Frederick County

6 N Catoctin to 7.5 NW Catoctin	17	1850EST 1857EST	3	200	0	0	5K		Tornado (F2)
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An F2 tornado touched down in far northwest Frederick County, on the northwest edge of Catoctin Mountain Park. A thickly forested stand of hardwood trees was snapped off above the bases.

Washington County

Hancock	17	1937EST 1939EST	0.5	100	0	0	5K		Tornado (F0)
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A weak tornado moved out of Morgan County, West Virginia. The tornado downed trees in remote areas just east of Hancock.

Harford County

Joppa	18	0240EST 0243EST	1	100	0	0	100K		Tornado (F1)
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Trees fell on a single story house causing extensive damage to the roof. The windows were also blown out of this residence in the Greenspring Hills Subdivision. Just before the storm lifted, it peeled some siding off a few homes and blew down a few more trees.

Harford County

Pylesville to 2 N Pylesville	18	0300EST 0310EST	2	125	0	0	350K		Tornado (F2)
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A tornado touched down near a residence off Grier Nursery Road. The storm destroyed two mobile homes, the side of a barn was blown out, structural damage to two homes were noted, and numerous large healthy trees were twisted off near the bases.

Allegany County

Countywide	17 18	2140EST 0200EST			0	0			Flash Flood
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Small streams and creeks overflowing their banks.

Washington County

Countywide	17 18	2140EST 0200EST			0	0			Flash Flood
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The remnants of Hurricane Ivan affected the Mid Atlantic Region on the 17th and 18th. Numerous tornadic thunderstorms produced widespread damage across most of Maryland, from the western panhandle to the lower southern counties. Frederick County was hardest hit by tornadoes with around 40 structures damaged. Washington and Allegany Counties once again bore the brunt of the flooding as small streams and creeks rose out of their banks.

Frederick County

Wolfsville	28	1330EST 1630EST			0	0			Flash Flood
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MARYLAND, Central

U.S. Route 17 under water.

Washington County

Hagerstown	28	1330EST 1630EST			0	0			Flash Flood
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Roads flooded.

Baltimore County

Cockeysville	28	1630EST 2130EST			0	0			Flash Flood
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Numerous roads closed in the northern portion of the county.

Baltimore City (C)

Baltimore	28	1630EST 2130EST			0	0			Flash Flood
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A few roads closed due to high water.

Carroll County

Westminster	28	1630EST 2130EST			0	0			Flash Flood
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Numerous roads closed across the county.

MDZ003>004

Washington - Frederick

28	1630EST 2030EST			0	0			Flood
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Many county roads flooded.

Anne Arundel County

3 S Crownsville	28	1745EST 2015EST			0	0			Flash Flood
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Car stranded in high water near the intersection of Route 450 and Crownsville Road.

Calvert County

1 N Solomons	28	1500EST 1502EST	0.3	50	0	0	40K		Tornado (F0)
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A waterspout moved on shore on the 28th. The small tornado briefly touched down near Solomon. No injuries were reported and maximum winds ranged from 45 to 65 mph.

The remnants of Hurricane Jeanne brought flooding to much of Maryland on the 28th. Rainfall amounts ranged from 3 to 6 inches. Numerous reports of stranded vehicles flooded Emergency Operations Command Centers. In Carroll county a group of inmates were rescued from the roof of a security van after it became submerged in a swollen creek. A total of 50 roads were closed in Maryland. Residents of the Mt. Savage Area in Cumberland, Allegany County were hard hit again as the stream wall was compromised and needed to be rebuilt, roads and basements were flooded. The remnant low pressure even spawned a waterspout on the Chesapeake Bay. The storm moved ashore and produced a weak tornado in Solomon, Calvert County. The tornado damaged the Solomon's Visitor Center, taking part of the roof and hurling it onto Route 2. The storm also toppled an old barn in the vicinity of the visitor's center.

VIRGINIA, North

Fauquier County

2 S Bealeton to .5 S Bealeton	08	1320EST 1325EST	1.5	200	0	0	500K		Tornado (F2)
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A tornado touched down 2 miles south of Bealeton and lifted a half mile south of Bealeton. The storm was 200 yards wide. The initial touchdown was near Morgansburg Road. The storm tracked north for 1.5 miles and produced significant damage to at least 2 homes. A roof was peeled off one home and some of the outside walls showed signs of bowing. At another dwelling, a garage door was blown into the garage and out of the sidewall. Several projectiles were lodged in the south side of the house. Three large green houses and some portable outhouses were also damaged. Two Ryder trucks were overturned. One truck fell on a small pickup, which sustained considerable damage. Maximum wind speeds were 115 to 130 mph.

Fauquier County

5.5 S Warrenton to 4.3 S Warrenton	08	1330EST 1333EST	0.8	100	0	0	7K		Tornado (F1)
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					Killed	Injured	Property	Crops	

VIRGINIA, North

A tornado touched down a half mile south of Hurlesville or almost 6 miles south of Warrenton. The storm was on the ground for three-quarters of a mile. Not structural damage was observed, but 20 to 30 mature trees were uprooted or snapped. Maximum winds were 60 to 70 mph.

Culpeper County

**Elkwood to
.3 N Elkwood**

08	1357EST 1400EST	0.3	100	0	0	50K			Tornado (F1)
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A tornado briefly touched down in Elkwood. The tornado caused damage to the Willow Run Growers Greenhouse Complex. A 20 foot square building with a sturdy metal roof was completely destroyed. Two cars in a parking lot were moved and a pickup truck was tipped over. Estimated winds were 75 to 90 mph.

King George County

**1.5 S Sealston to
.8 N Sealston**

08	1451EST 1500EST	2.3	200	0	0	7K			Tornado (F1)
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A tornado moved from Caroline County along the Stafford-King George County line. Numerous large trees (up to 3 feet in diameter) were uprooted and topped along Route 3 near Sealston. The storm was rated an F1 due to the extensive tree damage observed. The tornado crossed into Stafford County.

Stafford County

**3.5 NE White Oak to
5 S Aquia**

08	1500EST 1514EST	5.5	100	0	0	10K			Tornado (F0)
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The thunderstorm which produced the tornado near Sealston in King George County, continued into east Stafford County. A brief touch down occurred near Belle Plain (almost 4 miles NE of White Oak). Minor tree damage was noted and later the same tornado cycled and another brief touch down occurred near Aquia Bay Marina at the end of Aquia Creek Road (about 5 miles S of Aquia). Minor tree damage was noted there and 3 boats in dry dock were displaced.

Stafford County

**2 SE Garrisonville to
3 NNE Garrisonville**

08	1518EST 1536EST	5	150	0	0	50K			Tornado (F0)
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A tornado touched down in north Stafford County near Boswells Corner (near the intersection of U.S. Route 1 and Telegraph Road). Initially the storm produced minor damage to trees, and siding and shingles were torn from a few homes. Minutes later the storm produced extensive tree damage to the Crystal Lakes neighborhood. This tornado later crossed into Prince William County.

Prince William County

**2.5 S Triangle to
2 S Triangle**

08	1536EST 1538EST	0.5	75	0	0	25K			Tornado (F0)
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A tornado crossed into Prince William County from Stafford County. Damage was limited to a large, healthy stand of trees.

Fauquier County

**2 N Delaplane to
4 N Delaplane**

08	1605EST 1607EST	0.3	100	0	0	2K			Tornado (F0)
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A tornado touched down briefly in a rural area 2 miles north of Delaplane. Several trees were topped or uprooted. The storm produced intermittent damage as it tracked northeast toward Route 17. Maximum winds were estimated at 60 to 70 mph.

Charlottesville (C)

Charlottesville

08	1625EST			0	0	6K			Thunderstorm Wind (EG60)
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Trees down across the city.

Clarke County

**2 N Berryville to
2.3 N Berryville**

08	1630EST 1632EST	0.3	50	0	0	1K			Tornado (F0)
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A weak tornado touched down briefly just north of Berryville and the intersection of Route 7 and U.S. Highway 340. A few trees were snapped off with a lot of shredded leaves on the ground. Maximum winds were around 65 mph.

Albemarle County

Crozet

08	1700EST 2330EST			0	0				Flash Flood
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U.S. Route 810 under water.

Greene County

Ruckersville

08	1700EST			0	0	5K			Thunderstorm Wind (EG60)
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Trees down across the area.

Shenandoah County

5 E Orkney Spgs

08	1700EST 2200EST			0	0				Flash Flood
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U.S. Route 42 under water.

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VIRGINIA, North

Orange County

Montpelier to .3 E Montpelier	08	1740EST 1742EST	0.3	50	0	0	5K		Tornado (F0)
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A tornado touched down near Montpelier Station in central Orange County. Damage was limited to a few trees and downed wires. The storm was on the ground for less than 1 minute, and maximum winds were 50 mph.

Augusta County

Deerfield	08	1800EST 2330EST			0	0			Flash Flood
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Numerous roads closed in southwest Augusta County due to water covering the roads.

Madison County

Madison	08	1800EST 2230EST			0	0			Flash Flood
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Multiple road closures due to high water.

Rockingham County

Mc Gaheysville	08	1800EST 2330EST			0	0			Flash Flood
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Numerous roads closed due to standing water.

Greene County

Standardsville	08	1800EST 2200EST			0	0			Flash Flood
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Water over bridges.

Frederick County

Gore	08	1910EST 2100EST			0	0			Flash Flood
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Multiple roads closed throughout the county.

The remnants of Hurricane Frances brought flooding and tornadoes to portions of northern Virginia on the 8th. The track of the storm kept most of the flooding and tornadic activity in the Central Foothills, the Northern Piedmont, and northern Virginia counties from Loudoun southward to Culpeper. Emergency personnel reported numerous car accidents in Augusta and Rockingham counties. Augusta County schools cancelled school sporting events due to the conditions of the roads. Rescue workers also performed a few evacuations/water rescues. Flights were delayed at Dulles International Airport.

Albemarle County

Earlsville	17	1444EST 1446EST	0.3	50	0	0			Tornado (F0)
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Brief touch down of a weak tornado recorded and reported by broadcast media.

Fauquier County

1 S Remington to 2 NW Opal	17	1502EST 1515EST	9	200	0	2	250K		Tornado (F3)
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A strong tornado touched down in southern Fauquier County, near Remington. A home was pushed off its foundation. A new pickup truck was lifted and hurled 75 yards over trees and power lines. It crashed upside down in a field.

Greene County

1 S Standardsville to 3.5 S Standardsville	17	1505EST 1512EST	5	100	0	3	3M		Tornado (F2)
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A tornadic thunderstorm touched down near Standardsville. A roof was torn off a building just south of U.S. Highway 33. The roof was also torn off a house just north of U.S. Highway 33. The most extensive damage occurred around Highway 621. Four dwellings and a mobile home were destroyed. Approximately 50 other structures were damaged, including a nearby country club and a concrete block building. A trailer filled with cattle gates was also destroyed.

Warren County

2 N Front Royal to Front Royal	17	1510EST 1512EST	0.5	50	0	0			Tornado (F0)
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A weak tornado produced minor damage to some large trees near Front Royal. Debris was thrown across several roads.

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<u>VIRGINIA, North</u>									
Fauquier County									
.5 E Opal to 1 NW Warrenton	17	1512EST 1526EST	8	150	0	0	500K		Tornado (F2)
An F2 tornado touched down near Opal and tracked north. The tornado produced severe tree damage and some structural damage to several dwellings before dissipating near Warrenton. This is the second tornado of three tornadoes in Fauquier County associated with the remnants of Hurricane Ivan.									
Madison County									
.5 W Hood to 5.5 NW Graves Mill	17	1512EST 1522EST	8	400	0	0	200K		Tornado (F2)
A thunderstorm that moved into Madison County from Greene County produced tornado damage near Hood. A number of homes were damaged. One aluminum garage was destroyed and a rock chimney was topped off. The tornado remained on the ground for several miles and tracked northward into the higher terrain of western Madison County. Several large areas of mature mixed forest were almost completely leveled in the Rapidan Wildlife Management Area and the Shenandoah National Park.									
Fauquier County									
2 SE Warrenton to 2 NE The Plains	17	1524EST 1552EST	13	200	0	0	750K		Tornado (F2)
An F2 tornado produced widespread structural damage to two subdivisions in northern Fauquier County. Some small items were turned into projectiles by this tornado and landed in trees and the sides of homes and some vehicles. There was substantial tree damage. Numerous large, healthy trees were uprooted and snapped. This is the third tornado of this event in Fauquier.									
Spotsylvania County									
1 NE Massaponax to 6 N Massaponax	17	1529EST 1531EST	2	75	0	0			Tornado (F0)
A weak tornado moved across eastern Spotsylvania County, Virginia on the 19th. Emergency personnel witnessed a tornado in the New Crest Area. Minor damage to trees and a few homes were reported.									
Fredericksburg (C)									
Fredericksburg to 2 NW Fredericksburg	17	1536EST 1537EST	0.5	50	0	0			Tornado (F0)
A thunderstorm moved from Spotsylvania County into the eastern portion of the City of Fredericksburg. No property damage was reported, with debris scattered along Dixon Street.									
Frederick County									
1 NW Winchester Arpt to 4 N Winchester Arpt	17	1539EST 1544EST	5	125	0	0	250K		Tornado (F2)
An F2 tornado produced a nearly continuous path of damage for 5 miles in eastern Frederick County. It touched down west of Millwood Pike near the Winchester Airport. Three homes suffered roof damage, a detached two car garage was destroyed, a platform deck was blown away, an office trailer was overturned, and numerous trees along the track of the storm were uprooted or topped.									
Stafford County									
2.5 N White Oak to 1 W Stafford	17	1542EST 1610EST	6	100	0	0	10K		Tornado (F1)
A tornado touched down in central Stafford County near Stones Corner. The storm tracked north northeast and lifted near Stafford. The damage was mostly limited to mature trees and large limbs. The tornado had a 6 mile intermittent track, and the storm continued on into Prince William County Virginia.									
Spotsylvania County									
Holladay	17	1605EST 1606EST	0.1	50	0	0			Tornado (F0)
A brief tornado touchdown was video taped by a fire fighter. No damage or injuries were reported.									
Orange County									
3.1 SE Lahore to 2 E Lahore	17	1615EST 1620EST	3	100	0	0	150K		Tornado (F1)
A tornado touched down in a heavily forested area near the western end of Lake Anna, southeast of Lahore. Several trees were topped or uprooted and the tornado significantly damaged two homes.									
Loudoun County									
3 S Hamilton to Lovettsville	17	1620EST 1650EST	12	200	0	0	500K		Tornado (F1)

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VIRGINIA, North

A tornado touched down in western Loudoun County. This storm was a continuation of a track of the storm that moved through Fauquier County Virginia. The storm first touched down south of Hamilton and, intermittent damage was noted from Hamilton to Lovettsville. A farm near Hamilton suffered severe damage. The farmhouse, horse barn and outbuildings were severely damaged or demolished. Two thoroughbred horses were cut by flying debris. The tornado produced damage along a 12 mile track. This storm continued to travel north into Maryland and produced damage in extreme southwest Frederick and eastern Washington Counties.

Prince William County

6 W Dale City to
3 S Manassas Afs

17	1626EST 1635EST	4	250	0	0	1M			Tornado (F2)
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A tornadic thunderstorm moved through central Prince William County. This is the same storm that produced damage earlier in Stafford County. The initial touchdown in Prince William County was west of Dale City, near Independent Hill and Dumfries Road. The storm snapped or uprooted many large hardwood trees. Some of the trees fell on houses and other structures. The storm lifted and then reformed for the second touchdown in Manassas. Several homes suffered roof and shingle damage. An automobile was moved several feet. Damaged also occurred in Manassas Park and in Yorkshire Village. This tornado continued north into Fairfax County.

Orange County

Rhodesville to
3 NW Burr Hill

17	1628EST 1638EST	7	100	0	0	75K			Tornado (F2)
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A thunderstorm produced a second tornado in Rhodesville along Route 20 in eastern Orange County. A shed, a horse trailer, and a two silos were destroyed on one farm. A tree was thrown onto a house and a mobile home was demolished. The storm continued its northward and produced sporadic and less significant damage.

Culpeper County

Mitchells to
.5 N Mitchells

17	1636EST 1638EST	0.5	75	0	0	850K			Tornado (F1)
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A tornado touched down in Mitchells along Route 615. The tornado moved over several out buildings and homes. At least 12 homes sustained moderate to severe damage. Numerous trees were uprooted, and a shed was picked up off its foundation by the storm.

Frederick County

1 E Middletown to
1 E Opequon

17	1637EST 1650EST	9	250	0	2	1M			Tornado (F1)
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A tornado touched down in western Frederick County, Virginia on the 17th. The path of the storm was 9 miles long. It touched down about one mile east of Middletown and Interstate 81. Roof damage was noted to many barns and outbuildings. A large two story brick garage was nearly destroyed when its roof was blown off from strong F1 tornado winds. In the western end of the Stonebrook Farm Subdivision, an estimated 100 oak and other hardwood trees ranging from 18 to 36 inches in diameter topped or snapped 20 to 50 feet up from the base in roughly a 2 block area. One home was completely destroyed and over 100 others damaged due to falling trees.

Culpeper County

2 E Catalpa to
2.1 NE Catalpa

17	1650EST 1651EST	0.1	75	0	0	150K			Tornado (F1)
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A tornado touched down north of Culpeper near Catalpa. The tornado blew down branches from several trees. It blew in a garage door and the roof was blown off the garage and off part of the house.

Fairfax County

3 SSW Centerville to
5 NNW Centerville

17	1655EST 1705EST	7	150	0	1	2.5M			Tornado (F2)
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A tornadic thunderstorm entered western Fairfax County from Prince William County. The storm had a path of about 7 miles. Beginning on Old Centerville Road, the storm produced scattered tree damage along its path and minor roofing damage to structures in the London Town Area. A line of damage was carved from Lee Highway northward into the Centerville and Chantilly areas. The tornado destroyed one estate and damaged about 50 other dwellings. The storm was also responsible for downed trees and power lines. The tornado lifted as it crossed Route 50.

Loudoun County

Dulles Intl Arpt to
3 NE Ashburn

17	1712EST 1728EST	8	150	0	0	3M			Tornado (F2)
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A thunderstorm moved into eastern Loudoun County from Fairfax County near the Dulles International Airport. The storm produced a tornado which touched down at Dulles International Airport and passed within one half mile of the National Weather Service Forecast Office in Sterling. This prompted the staff on duty to seek shelter in the office constructed safe room. As the storm traveled north from the Dulles International Airport, it produced minor tree damage. More extensive damage occurred north of Waxpool Road at the Beaumede Corporate Park. Seven buildings were damaged. A wall collapsed in one of the buildings. A tractor trailer was overturned. The tornado also pushed two cars into the side of a building. The tornado weakened as it traveled north. The last damage in Loudoun County was reported just north of Route 7.

Storm Data and Unusual Weather Phenomena

September 2004

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

King George County

2 SW Comorn to Fairview Beach	17	1725EST 1736EST	7	250	0	0	500K		Tornado (F1)
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An F1 tornado crossed central King George County on the 17th. The initial touch down was near the intersection of Route 3 and 607, near Popcastle. Frame homes in the Lake Jefferson Subdivision and nearby Igo Road areas were damaged by topped or felled trees. Windy Hill Farm also reported extensive damage to the barn and two other out buildings. The storm then jogged to the right and crossed Comorn Road, just south of Osso. The storm continued to produce damage as it entered the Potomac River at the end of Route 641. Trees fell on a house at the end of Route 641.

Manassas (C)

1.8 SE Manassas to 1.6 ENE Manassas	17	1640EST 1645EST	1.6	75	0	0			Tornado (F1)
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A tornado touched down on the east side of the City of Manassas. It produced structural damage and tree damage and then continued on to Manassas Park. The tornado damaged several dwellings before lifting in the Yorkshire Subdivision. This complex track left Manassas City, crossed into Prince William County, then crossed into Manassas Park City, crossing back into Prince William County, then finally crossing into Fairfax County.

Prince William County

1.7 S Yorkshire to 1.4 S Yorkshire	17	1645EST 1646EST	0.3	75	0	0			Tornado (F1)
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A tornado touched down on the east side of the City of Manassas. It produced structural damage and tree damage and then continued on to Manassas Park. The tornado damaged several dwellings before lifting in the Yorkshire Subdivision. This complex track left Manassas City, crossed into Prince William County, then crossed into Manassas Park City, crossing back into Prince William County, then finally crossing into Fairfax County.

Manassas Park (C)

.3 S Manassas Park to Manassas Park	17	1646EST 1647EST	0.3	75	0	0			Tornado (F1)
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A tornado touched down on the east side of the City of Manassas. It produced structural damage and tree damage and then continued on to Manassas Park. The tornado damaged several dwellings before lifting in the Yorkshire Subdivision. This complex track left Manassas City, crossed into Prince William County, then crossed into Manassas Park City, crossing back into Prince William County, then finally crossing into Fairfax County.

Prince William County

1.1 S Yorkshire to .7 N Yorkshire	17	1647EST 1655EST	1.8	75	0	0			Tornado (F1)
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A tornado touched down on the east side of the City of Manassas. It produced structural damage and tree damage and then continued on to Manassas Park. The tornado damaged several dwellings before lifting in the Yorkshire Subdivision. This complex track left Manassas City, crossed into Prince William County, then crossed into Manassas Park City, crossing back into Prince William County, then finally crossing into Fairfax County.

Albemarle County

Crozet	17	1721EST 2012EST			0	0			Flash Flood
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Several low lying roads under water.

Frederick County

Stephens City	17	1900EST 2030EST			0	0			Flash Flood
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A few roads impassable due to high water in Stephens City and Middletown.

Warren County

Front Royal	17	1915EST 2115EST			0	0			Flash Flood
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County Officials reported numerous roads closed due to high water.

Fauquier County

Warrenton	17	1930EST 2115EST			0	0			Flash Flood
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Several roads closed across the county due to high water.

Prince William County

Dumfries to Woodbridge	17	2059EST 2300EST			0	0			Flash Flood
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High water reported on roads in Dumfries and Woodbridge.

Storm Data and Unusual Weather Phenomena

September 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>VIRGINIA, North</u>									
Loudoun County									
Leesburg	17	2100EST 2300EST			0	0			Flash Flood
Several roads across the county flooded due to high water.									
Fairfax County									
Annandale to Fairfax Park	17	2140EST 2300EST			0	0			Flash Flood
High water on roads in west Annandale and west Fairfax. The remnants of Hurricane Ivan affected the Mid Atlantic States on the 17th and 18th. Tornadoic thunderstorms produced widespread, significant damage across Northern Virginia. Flooding of small streams, creeks, primary and secondary roads were reported by emergency and rescue personnel. In response, many roads were closed through the late evening hours as flood waters were slow to recede. At least 10 homes were destroyed and around 300 sustained damage. Communities in Culpeper, Frederick, Greene, Orange Counties and Manassas Park City also reported some agricultural damage.									
Harrisonburg (C)									
Harrisonburg	28	1045EST 1645EST			0	0			Flash Flood
Several roads flooded.									
Staunton (C)									
Staunton	28	1045EST 1645EST			0	0			Flash Flood
Several roads flooded.									
Waynesboro (C)									
Waynesboro	28	1045EST 1645EST			0	0			Flash Flood
Several roads flooded.									
Page County									
Luray	28	1120EST 1720EST			0	0			Flash Flood
A few back roads under water.									
Winchester (C)									
Winchester	28	1120EST 1720EST			0	0			Flash Flood
Several roads flooded. 3.18 inches of rain reported.									
Loudoun County									
Middleburg	28	1230EST 1830EST			0	0			Flash Flood
U.S. Route 50 closed due to flooding along the Middleburg to Aldie corridor. Many secondary roads in the area area partially flooded and reduced to one lane or less.									
Clarke County									
Berryville	28	1400EST 2000EST			0	0			Flash Flood
Roads closed due to flooding.									
Frederick County									
Gore	28	1400EST 1700EST			0	0			Flash Flood
U.S. Route 50 west of Winchester closed, 3 to 4 feet of standing water on the road. Interstate 81 was also blocked by high water.									
Winchester (C)									
Winchester	28	1400EST 1700EST			0	0			Flash Flood
Water covered the roads in several locations around the city.									
Fauquier County									
Bealeton	28	1430EST 2000EST			0	0			Flash Flood
Numerous primary and secondary roads closed due to high water. Two secondary roads washed out.									
Shenandoah County									
Woodstock	28	1445EST 1945EST			0	0			Flash Flood
Several roads covered by water.									

Storm Data and Unusual Weather Phenomena

September 2004

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

Warren County

Front Royal	28	1445EST 1945EST			0	0			Flash Flood
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Roads and side streets under water.

Greene County

Standardsville	28	1500EST 2000EST			0	0			Flash Flood
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Numerous roads closed due to high water.

Madison County

Madison	28	1500EST 2000EST			0	0			Flash Flood
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Many roads closures throughout the county due to flooding.

Rappahannock County

Sperryville	28	1500EST 2000EST			0	0			Flash Flood
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Several roads closed due to high water.

Prince William County

Gainesville	28	1530EST 2000EST			0	0			Flash Flood
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Numerous roads closed in the west and central sections of the county.

Fairfax County

Vienna	28	1600EST 2000EST			0	0			Flash Flood
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Roads closed due to high water, including three intersections along Lee Highway.

Manassas (C)

Manassas	28	1600EST 1930EST			0	0			Flash Flood
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Roads covered by water.

VAZ025>026-028>029-042 Augusta - Rockingham - Frederick - Page - Loudoun

	28	1645EST 2230EST			0	0			Flood
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Several primary and secondary roads under water.

The remnants of Hurricane Jeanne brought flooding to Northern Virginia on the 28th. The flooding lasted from mid morning at some sites through the late evening hours. Numerous primary and secondary roads were washed out. Three to four feet of standing water was observed by law enforcement personnel in inundated areas. Augusta and Fauquier Counties reported the highest rainfall totals, 7 inches and 6 to 8 inches respectively.

Albemarle County

1 E Howardsville	30	2215EST 2330EST			0	0			Flash Flood
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Water covering the roadway at the intersection of Route 602 and Route 626.

WEST VIRGINIA, East

Pendleton County

Central Portion	08	1535EST 2130EST			0	0			Flash Flood
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Several side roads covered by water.

Hampshire County

Southeast Portion	08	1825EST 2300EST			0	0			Flash Flood
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Many roads closed throughout the county.

Hampshire County

Romney	08	1835EST 2330EST			0	0			Flash Flood
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Multiple road closed due to high water.

Storm Data and Unusual Weather Phenomena

September 2004

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

WEST VIRGINIA, East

Morgan County

Berkeley Spgs	08	1900EST 2330EST			0	0			Flash Flood
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Roads under water in Berkeley Springs.

The remnants of Hurricane Frances brought flooding to the Panhandle of West Virginia on the 8th. Several roads in Pendleton, Hampshire, and Morgan counties were under water.

Jefferson County

Middleway to 2 N Middleway	17	1840EST 1845EST	2	100	0	0	250K		Tornado (F1)
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An F1 tornado touched down in western Jefferson County. The tornado produced intermittent damage on a 2 mile stretch. Home owners reported moderate roof and siding damage and several large, healthy trees felled.

Berkeley County

Darkesville to 1.5 N Darkesville	17	1850EST 1855EST	2	100	0	6	25K		Tornado (F2)
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A tornado touched down in Darkesville in southern Berkeley County. The F2 tornado produced extensive structural damage to homes and businesses in the area. The storm traveled north and toppled tractor trailers and vehicles on Interstate-81. At least 6 people were injured from the automobile accidents.

Morgan County

Sleepy Creek to 1 N Sleepy Creek	17	1934EST 1937EST	0.5	100	0	0	25K		Tornado (F0)
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A brief tornado touched down in the Sleepy Creek area of northeast Morgan County. Trees were downed and a tree fell on a residence. The storm was on the ground for one half mile. This tornado moved into Washington County, MD.

Berkeley County

Martinsburg	17	1900EST 2200EST			0	0			Flash Flood
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Back Creek rose out of its bank. Several roads closed due to water covering the roads.

Hampshire County

Capon Bridge	17	1900EST 2030EST			0	0			Flash Flood
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Roads reported washed out in the eastern sections of Hampshire.

Morgan County

Berkeley Spgs	17	1900EST 2200EST			0	0			Flash Flood
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Several roads under water.

WVZ051>052

Morgan - Berkeley	17	2200EST			0	0			Flood
	18	0500EST							

Several roads closed due to high water.

The remains of Hurricane Ivan brought tornadoes across Jefferson, Berkeley, and Morgan Counties. Widespread flooding of small creeks/streams and primary and secondary roads were reported by emergency personnel for most of the West Virginia Panhandle. In response, many roads were closed through the late evening hours.

Berkeley County

Inwood	28	1415EST 1930EST			0	0			Flash Flood
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Numerous roads flooded, including U.S. Route 51 and U.S. Route 11.

Morgan County

Berkeley Spgs	28	1415EST 1930EST			0	0			Flash Flood
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Minor flooding of roadways.

Jefferson County

Charles Town	28	1430EST 1830EST			0	0			Flash Flood
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A few secondary roads flooded.

Storm Data and Unusual Weather Phenomena

September 2004

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

WEST VIRGINIA, East

Hampshire County

Romney	28	1500EST 1800EST			0	0			Flash Flood
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Standing water on some secondary roads.

Hardy County

Moorefield	28	1500EST 1945EST			0	0			Flash Flood
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Several roads under water.

The remnants of Hurricane Jeanne brought widespread flooding to Eastern West Virginia on the 28th. The flooding lasted from mid morning at some sites through late evening. Many secondary and primary roads, including US Routes 51 and 11, were under water.