

Flood Event of 9/19/2003 - 9/24/2003

Appomattox

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Farmville	16.00	9/23/2003	17.68	7,000	Minor	Appomattox	Appomattox River	Cumberland	Prince Edward
Farmville	16.00	9/19/2003	19.58	9,800	Minor	Appomattox	Appomattox River	Cumberland	Prince Edward
Matoaca	10.00	9/20/2003	12.87	16,875	Minor	Appomattox	Appomattox River	Chesterfield	Chesterfield
Mattoax	21.00	9/23/2003	27.33	13,500	Moderate	Appomattox	Appomattox River	Amelia	Amelia

Brandywine

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Chadds Ford	9.00	9/23/2003	9.15	5,529	Minor	Christina	Brandywine Creek	Delaware	Delaware

James

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Cartersville	20.00	9/20/2003	22.89	89,825	Minor	James	James River	Goochland	Cumberland
Palmyra	17.00	9/19/2003	25.91	30,000	Moderate	James	Rivanna River	Fluvanna	Fluvanna

Lehigh

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Walnutport	8.00	9/23/2003	8.40	19,800	Minor	Lehigh	Lehigh River	Northampton	Northampton

Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Camp Hill	7.00	9/23/2003	8.43	3,350	Minor	Yellow Breeches	Yellow Breeches Creek	Cumberland	Cumberland
Lancaster	11.00	9/23/2003	12.74	10,400	Minor	Conestoga	Conestoga River	Lancaster	Lancaster
Penns Creek	8.00	9/23/2003	8.44	6,270	Minor	Penns Creek	Penns Creek	Snyder	Snyder

North Branch Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Kitzmiller	9.00	9/19/2003	12.51	29,200	Moderate	North Branch Potomac	Potomac River	Garret	Garret

Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Dawsonville	7.50	9/23/2003	10.52	7,130	Minor	Potomac	Seneca Creek	Montgomery	Montgomery
Frederick	15.00	9/24/2003	19.71	24,100	Moderate	Potomac	Monocacy River at Jug Bridge	Frederick	Frederick
Great Cacapon	9.00	9/20/2003	19.17	33,800	Moderate	Potomac	Cacapon River	Morgan	Morgan
Harpers Ferry	18.00	9/20/2003	19.84	-9,999	Minor	Potomac	Potomac River	Jefferson	Jefferson
Leesburg	12.00	9/23/2003	23.32	36,900	Major	Potomac	Goose Creek	Loudoun	Loudoun
Little Falls (Washington DC)	10.00	9/21/2003	11.44	167,000	Minor	Potomac	Potomac River	Montgomery	Montgomery
Martinsburg	10.00	9/20/2003	10.36	-9,999	Minor	Potomac	Opequon Creek	Berkeley	Berkeley
Paw Paw	25.00	9/20/2003	27.91	60,500	Minor	Potomac	Potomac River	Allegany	Morgan

Point of Rocks	16.00	9/21/2003	23.12	150,000	Moderate	Potomac	Potomac River	Frederick	Frederick
Shepherdstown	15.00	9/20/2003	19.83	-9,999	Moderate	Potomac	Potomac River	Jefferson	Jefferson
Wisconsin Ave, Washington, DC	6.00	9/23/2003	7.13	-9,999	Moderate	Potomac	Potomac River	Dist. of Columbia	Dist. of Columbia

Rappahannock

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Culpeper	14.00	9/19/2003	18.51	20,700	Moderate	Rappahannock	Rapidan River	Culpeper	Culpeper
Remington	15.00	9/24/2003	17.93	15,900	Minor	Rappahannock	Rappahannock River	Fauquier	Fauquier

Shenandoah

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Cootes Store	15.00	9/19/2003	15.22	20,400	Minor	Shenandoah	Shenandoah River	Rockingham	Rockingham
Front Royal	12.00	9/23/2003	13.78	30,690	Minor	Shenandoah	Shenandoah River	Warren	Warren
Front Royal	12.00	9/19/2003	18.07	47,500	Major	Shenandoah	Shenandoah River	Warren	Warren
Luray	14.00	9/20/2003	19.11	50,600	Minor	Shenandoah	South Fork Shenandoah River	Page	Page
Lynnwood	16.00	9/19/2003	22.40	48,400	Major	Shenandoah	Shenandoah River	Rockingham	Rockingham
Millville	13.50	9/20/2003	17.31	66,100	Major	Shenandoah	Shenandoah River	Jefferson	Jefferson
Strasburg	17.00	9/20/2003	19.27	21,800	Minor	Shenandoah	North Fork Shenandoah River	Warren	Shenandoah
Waynesboro	9.50	9/19/2003	13.95	13,800	Major	Shenandoah	South River	Augusta	Independent City

South Branch Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Franklin	7.00	9/19/2003	12.14	16,500	Major	South Branch Potomac	South Branch Potomac River	Pendleton	Pendleton
Moorefield	10.00	9/19/2003	10.94	15,000	Minor	South Branch Potomac	South Fork South Branch Potomac River	Hardy	Hardy
Petersburg	10.00	9/19/2003	13.96	37,700	Moderate	South Branch Potomac	South Branch Potomac River	Grant	Grant
Springfield	15.00	9/20/2003	24.70	67,500	Moderate	South Branch Potomac	South Branch Potomac River	Hampshire	Hampshire

Weather Summary

Hurricane Isabel made landfall as a Category 2 hurricane at about 1700Z near Drum Inlet, North Carolina. The heavy rain associated with Hurricane Isabel moved over the Mid-Atlantic States on the 19th as Isabel moved to the northwest. Isabel continued through western Pennsylvania before it finally became extratropical on the 19th. The remnants of Isabel continued into Canada where it was absorbed by another system. Isabel dumped very heavy rain across much of the Northeast from the 18th through the 21st. Most of Maryland, Pennsylvania, Delaware, and West Virginia also received at least an inch of rain; however, there were some areas in those states that received more than 3.00 inches. Much of Virginia saw upwards of 3.00 inches with a few areas reporting upwards of 10.00 inches. This widespread and heavy rainfall caused flooding across many of the regions river basins. High pressure settled in on the 21st after Isabel had moved on which allowed for a temporary clearing. However, before all of the basins could drop below flood stages, another low and its associated cold front pushed through the region. This system dumped an additional couple of inches across the region. The already saturated ground coupled with this precipitation lead to additional flooding on basins across Virginia, Pennsylvania, and Maryland.

Crest Statistics and Flood Information

Third flood of 3 that occurred in Sep, 2003
 Nineteenth flood of 24 that occurred in 2003
 Number of Floods at MARFC Forecast Points - 37

Number of Floods Cresting in Minor Range - 20
 Number of Floods Cresting in Moderate Range - 11
 Number of Floods Cresting in Major Range - 6
 Number of Floods Cresting in Missing Range - 0