

# Flood Event of 1/30/2013 - 2/3/2013

## Brandywine

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Chadds Ford	9.00	1/31/2013	9.20	5,670	Minor	Christina	Brandywine Creek	Delaware	Delaware

## James

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bremo Bluff	19.00	2/1/2013	22.90	-9,999	Minor	James	James River	Fluvanna	Fluvanna
Buchanan	17.00	1/31/2013	17.50	34,100	Minor	James	James River	Botetourt	Botetourt
Lick Run	16.00	1/31/2013	16.53	27,400	Minor	James	James River	Botetourt	Botetourt
Palmyra	17.00	1/31/2013	19.33	13,900	Minor	James	Rivanna River	Fluvanna	Fluvanna
Richmond	12.00	2/2/2013	14.95	53,100	Minor	James	James River	Henrico	Independent City

## Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Harper Tavern	9.00	1/31/2013	9.01	7,190	Minor	Swatara	Swatara Creek	Lebanon	Lebanon
Lancaster	11.00	1/31/2013	12.77	11,000	Minor	Conestoga	Conestoga River	Lancaster	Lancaster

## North Branch Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Cortland	8.00	2/1/2013	8.36	4,020	Minor	North Branch Susquehanna	Tioughnioga River	Cortland	Cortland

## Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Dawsonville	7.50	1/31/2013	11.35	8,280	Moderate	Potomac	Seneca Creek	Montgomery	Montgomery
Edwards Ferry	15.00	2/1/2013	16.63	-9,999	Minor	Potomac	Potomac River	Montgomery	Montgomery
Frederick	15.00	1/31/2013	17.57	19,900	Moderate	Potomac	Monocacy River at Jug Bridge	Frederick	Frederick
Great Cacapon	9.00	1/31/2013	10.89	10,400	Minor	Potomac	Cacapon River	Morgan	Morgan
Leesburg	12.00	1/31/2013	18.47	15,800	Major	Potomac	Goose Creek	Loudoun	Loudoun
Martinsburg	10.00	1/31/2013	12.04	5,060	Minor	Potomac	Opequon Creek	Berkeley	Berkeley

## Rappahannock

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Culpeper	13.00	1/31/2013	13.49	13,100	Minor	Rappahannock	Rapidan River	Culpeper	Culpeper
Remington	15.00	1/31/2013	17.01	14,800	Minor	Rappahannock	Rappahannock River	Fauquier	Fauquier

## Schuylkill

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Graterford	11.00	1/31/2013	12.51	18,100	Minor	Schuylkill	Perkiomen Creek	Montgomery	Montgomery
Norristown	13.00	1/31/2013	13.99	36,200	Minor	Schuylkill	Schuylkill River	Montgomery	Montgomery

## Shenandoah

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
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## Weather Summary

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A warm front gave our upper northern basins  $\frac{1}{4}$  to  $\frac{3}{4}$  inches of rain on the 29th. Intensifying low pressure moved up the Ohio Valley and through the lower Great Lakes on the 30th and into Southeastern Canada early on the 31st. A vigorous mid-upper level trough and associated height falls shifted eastward across the region. A 60-80KT southerly low level jet preceded the H5 trough and an associated strong cold front. A very strong moisture flux with precipitable water (PWAT) values generally +3-5 standard deviation (STD) accompanied this system. The highly anomalous PWATS/moisture flux along with strong large scale forcing and frontal convergence/lift supported significant rainfall along and ahead of the cold front. The heavy rain combined with enhanced runoff due to cold season hydro effects and moist antecedent conditions to produce widespread minor to moderate flooding across mainly the southern half of the MARFC service area.

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## Crest Statistics and Flood Information

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Second flood of 2 that occurred in Jan, 2013

Second flood of 17 that occurred in 2013

Number of Floods at MARFC Forecast Points - 20

Number of Floods Cresting in Minor Range - 17

Number of Floods Cresting in Moderate Range - 2

Number of Floods Cresting in Major Range - 1

Number of Floods Cresting in Missing Range - 0