

# Flood Event of 4/30/2014 - 5/6/2014

## Appomattox

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Farmville	16.00	5/1/2014	17.43	6,640	Minor	Appomattox	Appomattox River	Cumberland	Prince Edward
Mattoax	21.00	5/4/2014	23.50	7,990	Minor	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	5/1/2014	16.06	22,200	Major	Christina	Brandywine Creek	Delaware	Delaware
Wilmington	16.50	5/1/2014	20.43	22,800	Major	Christina	Brandywine Creek	New Castle	New Castle

## Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Pemberton	2.50	5/1/2014	2.98	1,020	Minor	Delaware	North Branch Rancocas Creek	Burlington	Burlington
Trenton	8.50	5/1/2014	11.62	3,710	Major	Delaware	Assunpink Creek	Mercer	Mercer

## James

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bremo Bluff	19.00	5/1/2014	19.00	-9,999	Minor	James	James River	Fluvanna	Fluvanna
Palmyra	17.00	5/1/2014	21.50	18,400	Minor	James	Rivanna River	Fluvanna	Fluvanna
Richmond	12.00	5/1/2014	14.92	65,800	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
Hershey	7.00	5/1/2014	7.08	8,760	Minor	Swatara	Swatara Creek	Dauphin	Dauphin
Lancaster	11.00	5/1/2014	11.86	9,410	Minor	Conestoga	Conestoga River	Lancaster	Lancaster

## Neshaminy

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Langhorne	9.00	5/1/2014	14.64	14,700	Major	Neshaminy	Neshaminy Creek	Bucks	Bucks

## Passaic

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Boonton below Reservoir	5.00	5/1/2014	6.62	2,710	Minor	Passaic	Rockaway River	Morris	Morris
Chatham	6.00	4/30/2014	6.46	1,660	Minor	Passaic	Passaic River	Morris	Morris
Little Falls	7.00	5/3/2014	7.86	8,030	Moderate	Passaic	Passaic River	Passaic	Passaic
Lodi	6.00	5/1/2014	7.02	2,370	Moderate	Passaic	Saddle River	Bergen	Bergen
Macopin Intake Dam	5.50	5/1/2014	6.07	1,880	Minor	Passaic	Pequannock River	Passaic	Passaic
Mahwah	8.00	5/1/2014	8.15	2,910	Minor	Passaic	Ramapo River	Bergen	Bergen
Millington	8.00	5/1/2014	8.24	1,070	Minor	Passaic	Passaic River	Somerset	Morris
Pine Brook	19.00	5/2/2014	20.23	3,990	Moderate	Passaic	Passaic River	Morris	Morris
Wanaque	5.00	5/2/2014	5.21	1,250	Minor	Passaic	Wanaque River	Passaic	Passaic

## Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Dawsonville	7.50	4/30/2014	10.61	6,220	Minor	Potomac	Seneca Creek	Montgomery	Montgomery
Frederick	15.00	5/1/2014	19.21	23,500	Moderate	Potomac	Monocacy River at Jug Bridge	Frederick	Frederick
Leesburg	12.00	4/30/2014	14.07	9,320	Minor	Potomac	Goose Creek	Loudoun	Loudoun

## Rappahannock

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Culpeper	13.00	4/30/2014	14.75	15,200	Minor	Rappahannock	Rapidan River	Culpeper	Culpeper
Fredericksburg (New site)	13.00	5/1/2014	15.43	57,300	Minor	Rappahannock	Rappahannock River	Spotsylvania	Independent City
Remington	15.00	5/1/2014	18.36	18,100	Minor	Rappahannock	Rappahannock River	Fauquier	Fauquier

## Raritan

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Blackwells Mills	9.00	5/1/2014	15.87	11,800	Major	Raritan	Millstone River	Somerset	Somerset
Bound Brook	28.00	5/1/2014	34.65	38,800	Major	Raritan	Raritan River below Calco Dam	Somerset	Somerset
Manville	14.00	5/1/2014	20.25	25,300	Major	Raritan	Raritan River	Somerset	Somerset
Raritan	10.00	5/1/2014	13.29	12,700	Moderate	Raritan	North Branch Raritan River	Somerset	Somerset
Stanton	8.00	5/1/2014	8.71	4,830	Minor	Raritan	South Branch Raritan River	Hunterdon	Hunterdon

## Schuylkill

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Graterford	11.00	5/1/2014	16.20	30,200	Major	Schuylkill	Perkiomen Creek	Montgomery	Montgomery
Norristown	13.00	5/1/2014	20.81	90,400	Major	Schuylkill	Schuylkill River	Montgomery	Montgomery
Philadelphia	11.00	5/1/2014	13.91	88,300	Moderate	Schuylkill	Schuylkill River	Philadelphia	Philadelphia
Pottstown	12.50	5/1/2014	12.90	23,400	Minor	Schuylkill	Schuylkill River	Montgomery	Montgomery

## Weather Summary

Over a 3-day period extreme weather was experienced across the United States including extremely heavy rainfall (Fig. 1) and flooding over western Florida (AP 2014) which produced over 20 inches of rainfall in portions of the Florida panhandle. The weather during the period was the result of a strong short-wave which at 500 hPa moved over the Pacific Northwest on 26 April and rapidly moved eastward. As the trough moved eastward a ridge developed over the western Atlantic allowing moisture from the Gulf of moisture to move into the central United States. The high heights over eastern North America produced a cold air damming situation over the northeastern United States. The deep moisture and strong low-level winds produced a severe weather event over the eastern Plains and Mississippi Valleys on 27-28 April. The severe weather diminished as the system moved eastward and encountered relatively cold low-level air. The boundary between the cold air and the warm moist air produced heavy rainfall and flooding from northern Virginia into southern New York. The surge of high PW air and strong winds over the frontal boundary in the northeast had the appearance of a Maddox synoptic type event. Portions taken from Rich Grumm NWS WFO-CTP.

<http://cms.met.psu.edu/sref/severe/2014/30Apr2014.pdf>

Source: Grumm NWS WFO CTP

## Crest Statistics and Flood Information

First flood of 1 that occurred in Apr, 2014

Sixth flood of 8 that occurred in 2014

Number of Floods at MARFC Forecast Points - 36

Number of Floods Cresting in Minor Range - 21

Number of Floods Cresting in Moderate Range - 6

Number of Floods Cresting in Major Range - 9

Number of Floods Cresting in Missing Range - 0