

Flood Event of 4/1/2005 - 4/4/2005

Brandywine

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Chadds Ford	9.00	4/3/2005	9.80	7,270	Minor	Christina	Brandywine Creek	Delaware	Delaware

Chemung

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Chemung	16.00	4/3/2005	17.40	58,600	Minor	Chemung	Chemung River	Chemung	Chemung
Elmira	12.00	4/3/2005	13.17	42,600	Minor	Chemung	Chemung River	Chemung	Chemung
Mansfield	12.00	4/2/2005	12.30	13,000	Minor	Chemung	Tioga River	Tioga	Tioga

Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bridgeville	13.00	4/3/2005	21.25	25,900	Major	Delaware	Neversink River	Sullivan	Sullivan
Cooks Falls	10.00	4/3/2005	18.98	50,800	Major	Delaware	Beaver Kill	Delaware	Delaware
Fishs Eddy	13.00	4/3/2005	19.47	65,100	Major	Delaware	Delaware River	Delaware	Delaware
Godeffroy	10.00	4/3/2005	12.40	325,005	Major	Delaware	Neversink River	Orange	Orange
Harvard	10.00	4/3/2005	16.32	21,300	Major	Delaware	East Branch Delaware River	Delaware	Delaware
Hawley	11.00	4/3/2005	15.24	19,600	Moderate	Lackawaxen	Lackawaxen River	Wayne	Wayne
Minisink Hills	10.00	4/4/2005	20.99	48,500	Major	Brodhead	Brodhead Creek	Monroe	Monroe

Shoemakers	6.00	4/3/2005	7.51	5,670	Moderate	Bush Kill	Bush Kill	Monroe	Cambria
Trenton	8.50	4/2/2005	8.62	1,670	Minor	Delaware	Assunpink Creek	Mercer	Mercer
Walton	9.50	4/3/2005	14.45	18,400	Moderate	Delaware	West Branch Delaware River	Delaware	Delaware

Lehigh

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bethlehem	16.00	4/3/2005	16.06	42,600	Minor	Lehigh	Lehigh River	Lehigh	Northampton
Walnutport	8.00	4/3/2005	10.49	30,000	Minor	Lehigh	Lehigh River	Northampton	Northampton

Main Stem Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Barryville	17.00	4/3/2005	24.80	118,000	Moderate	Main Stem Delaware	Delaware River	Sullivan	Sullivan
Belvidere	22.00	4/4/2005	27.22	226,000	Major	Main Stem Delaware	Delaware River	Warren	Warren
Callicoon	12.00	4/3/2005	17.98	114,000	Major	Main Stem Delaware	Delaware River	Wayne	Sullivan
Delaware Water Gap	21.00	4/3/2005	33.25	215,000	Major	Main Stem Delaware	Delaware River	Warren	Monroe
Easton (Phillipsburg, NJ)	22.00	4/4/2005	37.20	-9,999	Major	Main Stem Delaware	Delaware River	Warren	Northampton
Frenchtown	16.00	4/4/2005	23.60	-9,999	Major	Main Stem Delaware	Delaware River	Hunterdon	Hunterdon
Hale Eddy	11.00	4/3/2005	14.12	21,500	Moderate	Main Stem Delaware	West Branch Delaware River	Delaware	Delaware
Montague	25.00	4/3/2005	31.69	206,000	Moderate	Main Stem Delaware	Delaware River	Pike	Sussex
New Hope (Lambertville, NJ)	13.00	4/4/2005	19.60	-9,999	Major	Main Stem Delaware	Delaware River	Hunterdon	Bucks

Port Jervis	18.00	4/3/2005	20.52	166,000	Minor	Main Stem Delaware	Delaware River	Pike	Orange
Riegelsville	22.00	4/4/2005	34.07	262,000	Major	Main Stem Delaware	Delaware River	Warren	Bucks
Stockton	18.00	4/4/2005	26.00	-9,999	Major	Main Stem Delaware	Delaware River	Hunterdon	Hunterdon
Trenton	20.00	4/4/2005	25.33	242,000	Major	Main Stem Delaware	Delaware River	Mercer	Mercer
Washington Crossing	20.00	4/4/2005	23.10	-9,999	Moderate	Main Stem Delaware	Delaware River	Mercer	Bucks

Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bloomsburg	19.00	4/4/2005	25.08	-9,999	Moderate	Upper Main Stem Susquehanna	Susquehanna River	Columbia	Columbia
Camp Hill	7.00	4/3/2005	8.27	3,250	Minor	Yellow Breeches	Yellow Breeches Creek	Cumberland	Cumberland
Conowingo	23.50	4/4/2005	26.70	430,000	Moderate	Lower Main Stem Susquehanna	Susquehanna River	Harford	Cecil
Danville	20.00	4/4/2005	24.28	202,000	Moderate	Upper Main Stem Susquehanna	Susquehanna River	Montour	Montour
Harper Tavern	9.00	4/3/2005	11.58	11,000	Minor	Swatara	Swatara Creek	Lebanon	Lebanon
Harrisburg	17.00	4/4/2005	18.87	360,000	Minor	Lower Main Stem Susquehanna	Susquehanna River	Dauphin	Dauphin
Hershey	7.00	4/3/2005	8.01	11,100	Minor	Swatara	Swatara Creek	Dauphin	Dauphin
Hogestown	8.00	4/3/2005	8.42	6,670	Minor	Conodoguinet	Conodoguinet Creek	Cumberland	Cumberland
Marietta	49.00	4/4/2005	51.71	391,000	Minor	Lower Main Stem Susquehanna	Susquehanna River	Lancaster	Lancaster
Meshoppen	27.00	4/4/2005	34.06	175,000	Moderate	Upper Main Stem Susquehanna	Susquehanna River	Wyoming	Wyoming
Monroeton	14.00	4/2/2005	15.81	11,800	Minor	Upper Main Stem Susquehanna	Towanda Creek	Bradford	Bradford

Old Forge	11.00	4/3/2005	11.76	14,000	Minor	Lackawanna	Lackawaxen River	Lackawanna	Lackawanna
Shermans Dale	9.00	4/2/2005	9.36	6,730	Minor	Lower Main Stem Susquehanna	Sherman Creek	Perry	Perry
Sunbury	24.00	4/4/2005	26.15	312,000	Moderate	Lower Main Stem Susquehanna	Susquehanna River	Snyder	Northumberland
Towanda	16.00	4/4/2005	23.05	162,000	Moderate	Upper Main Stem Susquehanna	Susquehanna River	Bradford	Bradford
Tunkhannock	11.00	4/3/2005	14.44	22,000	Moderate	Upper Main Stem Susquehanna	Tunkhannock Creek	Wyoming	Wyoming
Wilkes-Barre	22.00	4/4/2005	30.88	189,000	Major	Upper Main Stem Susquehanna	Susquehanna River	Luzerne	Luzerne

Neshaminy

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Langhorne	9.00	4/3/2005	12.87	14,000	Major	Neshaminy	Neshaminy Creek	Bucks	Bucks

North Branch Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bainbridge	13.00	4/4/2005	20.47	37,500	Moderate	North Branch Susquehanna	North Branch Susquehanna River	Chenango	Chenango
Chenango Forks	10.00	4/3/2005	14.34	45,400	Moderate	North Branch Susquehanna	Chenango River	Broome	Broome
Cincinnatus	9.00	4/3/2005	10.55	7,700	Minor	North Branch Susquehanna	Otselic River	Cortland	Cortland
Conklin	11.00	4/3/2005	18.08	49,400	Moderate	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome
Cortland	8.00	4/3/2005	14.07	14,200	Major	North Branch Susquehanna	Tioughnioga River	Cortland	Cortland
Greene	13.00	4/3/2005	18.67	20,800	Moderate	North Branch Susquehanna	Chenango River	Chenango	Chenango
Owego	30.00	4/3/2005	33.15	106,000	Moderate	North Branch Susquehanna	North Branch Susquehanna River	Tioga	Tioga

Rockdale	11.00	4/3/2005	11.83	13,900	Minor	North Branch Susquehanna	Unadilla River	Chenango	Chenango
Sherburne	8.00	4/1/2005	8.31	3,290	Minor	North Branch Susquehanna	Chenango River	Chenango	Chenango
Sherburne	8.00	4/3/2005	10.78	9,330	Major	North Branch Susquehanna	Chenango River	Chenango	Chenango
Sherburne	8.00	4/2/2005	8.07	2,900	Minor	North Branch Susquehanna	Chenango River	Chenango	Chenango
Unadilla	11.00	4/3/2005	13.68	20,500	Moderate	North Branch Susquehanna	North Branch Susquehanna River	Otsego	Otsego
Vestal	18.00	4/3/2005	29.14	97,000	Major	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome
Waverly	11.00	4/3/2005	20.88	105,000	Major	North Branch Susquehanna	North Branch Susquehanna River	Bradford	Tioga
Windsor	17.00	4/4/2005	19.09	35,200	Moderate	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome

Passaic

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Boonton above Reservoir (Old Site)	5.00	4/3/2005	6.33	3,640	Moderate	Passaic	Rockaway River	Morris	Morris
Boonton below Reservoir	5.00	4/3/2005	7.19	3,210	Moderate	Passaic	Rockaway River	Morris	Morris
Chatham	6.00	4/2/2005	6.07	1,240	Minor	Passaic	Passaic River	Morris	Morris
Little Falls	7.00	4/4/2005	10.11	12,100	Major	Passaic	Passaic River	Passaic	Passaic
Lodi	6.00	4/3/2005	6.54	2,070	Minor	Passaic	Saddle River	Bergen	Bergen
Macopin Intake Dam	5.50	4/3/2005	6.12	1,760	Minor	Passaic	Pequannock River	Passaic	Passaic
Mahwah	8.00	4/3/2005	9.87	6,220	Moderate	Passaic	Ramapo River	Bergen	Bergen
Pine Brook	19.00	4/4/2005	20.76	4,790	Moderate	Passaic	Passaic River	Morris	Morris

Pompton Lakes	9.00	4/3/2005	14.22	6,360	Major	Passaic	Ramapo River	Passaic	Passaic
Pompton Plains	16.00	4/3/2005	20.42	15,300	Major	Passaic	Pompton River	Passaic	Morris
Wanaque	5.00	4/3/2005	7.59	3,180	Moderate	Passaic	Wanaque River	Passaic	Passaic

Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Frederick	15.00	4/3/2005	17.43	18,600	Moderate	Potomac	Monocacy River at Jug Bridge	Frederick	Frederick

Raritan

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Blackwells Mills	9.00	4/3/2005	11.41	6,530	Moderate	Raritan	Millstone River	Somerset	Somerset
Bound Brook	28.00	4/3/2005	30.54	24,700	Moderate	Raritan	Raritan River below Calco Dam	Somerset	Somerset
Manville	14.00	4/3/2005	16.90	19,300	Minor	Raritan	Raritan River	Somerset	Somerset
Raritan	10.00	4/3/2005	10.34	6,250	Minor	Raritan	North Branch Raritan River	Somerset	Somerset
Stanton	8.00	4/2/2005	10.10	7,010	Moderate	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	4/3/2005	14.17	24,400	Moderate	Schuylkill	Perkiomen Creek	Montgomery	Montgomery
Philadelphia	11.00	4/3/2005	11.74	56,800	Minor	Schuylkill	Schuylkill River	Philadelphia	Philadelphia
Pottstown	13.00	4/3/2005	13.35	24,200	Minor	Schuylkill	Schuylkill River	Montgomery	Montgomery

West Branch Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Lewisburg	18.00	4/3/2005	18.79	113,000	Minor	West Branch Susquehanna	West Branch Susquehanna River	Northumberland	Union
Milton	19.00	4/3/2005	20.11	-9,999	Minor	West Branch Susquehanna	West Branch Susquehanna River	Union	Northumberland
Montgomery	20.00	4/3/2005	20.30	-9,999	Minor	West Branch Susquehanna	West Branch Susquehanna River	Lycoming	Lycoming
Muncy	20.00	4/3/2005	20.30	-9,999	Minor	West Branch Susquehanna	West Branch Susquehanna River	Lycoming	Lycoming

Weather Summary

After the passage of a heavy rain producing system only days before, a new system developed in the Gulf South and strengthened as it moved northward into the Mid-Atlantic region brought even heavier rain to MARFC Basins. The trajectory of the new low, although similar to the previous system, took the center of the low over western Pennsylvania. However, upon entering the Mid-Atlantic region, the low continued to deepen over central New York before moving northeastward into Canada. The distinct arrangement of precipitation bands, time of year and upper level synoptic characteristics distinguished this as a Maddox Synoptic Type system. As typical with such systems, the bulk of the moisture associates itself with the warm frontal passage, hitting the same areas with more and more rain. Again characteristic of Maddox types, the system slowed upon reaching the northeast, further soaking the region and creating an extended timeline for the flooding situation. Between April 1 and 3, the North Branch Susquehanna, Lower Potomac received 1-2.5 inches while the Raritan, Passaic, Delaware, Upper Main Stem and Lower Main Stem received between 2 and 4 inches.

Crest Statistics and Flood Information

First flood of 1 that occurred in Apr, 2005
 Third flood of 8 that occurred in 2005
 Number of Floods at MARFC Forecast Points - 87

Number of Floods Cresting in Minor Range - 32
 Number of Floods Cresting in Moderate Range - 31
 Number of Floods Cresting in Major Range - 24
 Number of Floods Cresting in Missing Range - 0