

Flood Event of 8/27/2011 - 9/5/2011

Brandywine

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Chadds Ford	9.00	8/28/2011	15.23	18,300	Major	Christina	Brandywine Creek	Delaware	Delaware
Wilmington	16.50	8/28/2011	18.71	16,800	Moderate	Christina	Brandywine Creek	New Castle	New Castle

Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Bridgeville	13.00	8/28/2011	18.02	16,800	Moderate	Delaware	Neversink River	Sullivan	Sullivan
Cooks Falls	10.00	8/28/2011	15.60	30,300	Minor	Delaware	Beaver Kill	Delaware	Delaware
Fishs Eddy	13.00	8/28/2011	16.04	44,400	Moderate	Delaware	Delaware River	Delaware	Delaware
Godeffroy	10.00	8/28/2011	12.05	28,800	Major	Delaware	Neversink River	Orange	Orange
Harvard	10.00	8/29/2011	13.31	13,900	Moderate	Delaware	East Branch Delaware River	Delaware	Delaware
Minisink Hills	10.00	8/29/2011	10.57	15,100	Minor	Brodhead	Brodhead Creek	Monroe	Monroe
Minisink Hills	10.00	8/28/2011	11.42	17,500	Minor	Brodhead	Brodhead Creek	Monroe	Monroe
Pemberton	2.50	8/29/2011	4.91	2,400	Major	Delaware	North Branch Rancocas Creek	Burlington	Burlington
Shoemakers	6.00	8/28/2011	7.35	5,480	Moderate	Bush Kill	Bush Kill	Monroe	Cambria
Trenton	8.50	8/28/2011	15.12	5,820	Major	Delaware	Assunpink Creek	Mercer	Mercer
Walton	9.50	8/29/2011	13.66	16,000	Minor	Delaware	West Branch Delaware River	Delaware	Delaware

Main Stem Delaware

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Callicoon	12.00	8/28/2011	12.90	62,000	Minor	Main Stem Delaware	Delaware River	Wayne	Sullivan
Delaware Water Gap	21.00	8/29/2011	23.21	-9,999	Moderate	Main Stem Delaware	Delaware River	Warren	Monroe
Easton (Phillipsburg, NJ)	22.00	8/29/2011	25.15	-9,999	Minor	Main Stem Delaware	Delaware River	Warren	Northampton
Frenchtown	16.00	8/29/2011	16.68	-9,999	Minor	Main Stem Delaware	Delaware River	Hunterdon	Hunterdon
Riegelsville	22.00	8/29/2011	24.56	-9,999	Minor	Main Stem Delaware	Delaware River	Warren	Bucks
Stockton	18.00	8/29/2011	18.68	-9,999	Minor	Main Stem Delaware	Delaware River	Hunterdon	Hunterdon
Trenton	20.00	8/29/2011	20.49	146,000	Minor	Main Stem Delaware	Delaware River	Mercer	Mercer
Washington Crossing	16.00	8/29/2011	16.06	-9,999	Minor	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
Lancaster	11.00	8/28/2011	12.15	9,370	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	8/28/2011	19.56	23,100	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
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Conklin	12.00	8/28/2011	16.34	38,400	Moderate	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome
Vestal	18.00	8/28/2011	18.90	44,700	Minor	North Branch Susquehanna	North Branch Susquehanna River	Broome	Broome
Waverly	11.00	8/29/2011	11.91	47,900	Minor	North Branch Susquehanna	North Branch Susquehanna River	Bradford	Tioga

Passaic

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Boonton above Reservoir (Old Site)	5.00	8/28/2011	9.31	8,210	Major	Passaic	Rockaway River	Morris	Morris
Boonton below Reservoir	5.00	8/28/2011	9.73	7,390	Major	Passaic	Rockaway River	Morris	Morris
Chatham	6.00	8/29/2011	7.76	2,620	Moderate	Passaic	Passaic River	Morris	Morris
Little Falls	7.00	8/30/2011	14.19	20,800	Major	Passaic	Passaic River	Passaic	Passaic
Lodi	6.00	8/28/2011	13.50	5,320	Major	Passaic	Saddle River	Bergen	Bergen
Macopin Intake Dam	5.50	8/28/2011	7.42	4,360	Moderate	Passaic	Pequannock River	Passaic	Passaic
Mahwah	8.00	8/28/2011	15.77	18,300	Major	Passaic	Ramapo River	Bergen	Bergen
Millington	8.00	8/29/2011	10.26	2,120	Major	Passaic	Passaic River	Somerset	Morris
Pine Brook	19.00	8/30/2011	24.12	7,110	Major	Passaic	Passaic River	Morris	Morris
Pompton Lakes	11.50	8/28/2011	22.61	17,800	Major	Passaic	Ramapo River	Passaic	Passaic
Pompton Plains	16.00	8/29/2011	25.24	25,000	Major	Passaic	Pompton River	Passaic	Morris
Wanaque	5.00	8/29/2011	7.88	3,520	Moderate	Passaic	Wanaque River	Passaic	Passaic

Raritan

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Blackwells Mills	9.00	8/28/2011	21.24	20,700	Major	Raritan	Millstone River	Somerset	Somerset
Bound Brook	28.00	8/28/2011	41.90	80,400	Major	Raritan	Raritan River below Calco Dam	Somerset	Somerset
Manville	14.00	8/28/2011	26.24	53,000	Major	Raritan	Raritan River	Somerset	Somerset
Raritan	10.00	8/28/2011	17.96	27,800	Major	Raritan	North Branch Raritan River	Somerset	Somerset
Stanton	8.00	8/28/2011	13.61	14,100	Major	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	8/28/2011	18.20	39,600	Major	Schuylkill	Perkiomen Creek	Montgomery	Montgomery
Norristown	13.00	8/28/2011	19.76	81,400	Major	Schuylkill	Schuylkill River	Montgomery	Montgomery
Philadelphia	11.00	8/28/2011	13.56	83,900	Moderate	Schuylkill	Schuylkill River	Philadelphia	Philadelphia

Weather Summary

Hurricane Irene brought heavy rains and flooding from the Carolinas to New England from 26-28 August 2011. As the storm underwent extratropical transition, the heavy rainfall shifted to the left of the track. The heaviest rains were experienced just inland from North Carolina to Maine. The storm made landfall over North Carolina, New Jersey, and as tropical storm over New York City crossing central Park around 9 AM 28 August 2011. The tropical force winds extended well inland on the west side of the storm. As with many tropical storms, the heaviest rainfall was observed mainly along and west of the storm track. A 100-200 km swath of heavy rain was observed from the Carolinas to northern New England. Area averaged rainfall from gauge and radar data indicated a broad swath of 75 to 250 mm (3 to 10 inches) of rainfall. Individual rain gages showed locally heavy rainfall amount in excess of 325 mm (13 inches). The rainfall in the mountains of western New England and eastern New York produced devastating flooding. Towns were cut-off as roads flooded and bridges were swept away by flood waters. Portions of Vermont and New experienced the worst flooding in over a century. The surge of high precipitable water along a quasi-north south boundary in the coastal plain and strong winds was good signals for heavy rainfall. Portions taken from Rich Grum NWS WFO-CTP. <http://nws.met.psu.edu/sref/severe/2011/28Aug2011.pdf>.

Source: Grumm NWS WFO CTP

Crest Statistics and Flood Information

Second flood of 2 that occurred in Aug, 2011

Twelfth flood of 18 that occurred in 2011

Number of Floods at MARFC Forecast Points - 46

Number of Floods Cresting in Minor Range - 14

Number of Floods Cresting in Moderate Range - 11

Number of Floods Cresting in Major Range - 21

Number of Floods Cresting in Missing Range - 0