

Flood Event of 9/16/1934 - 9/17/1934

James

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Palmyra	17.00	9/17/1934	24.75	24,000	Minor	James	Rivanna River	Fluvanna	Fluvanna

Lower Main Stem Susquehanna

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Hogestown	8.00	9/17/1934	8.97	8,200	Minor	Conodoguinet	Conodoguinet Creek	Cumberland	Cumberland
Penns Creek	8.00	9/16/1934	13.00	19,800	Major	Susquehanna	Penns Creek	Union	Snyder
Shermans Dale	9.00	9/17/1934	9.06	8,060	Minor	Main Stem Susquehanna	Sherman Creek	Perry	Perry

Potomac

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Fairview	10.00	9/17/1934	11.60	10,700	Minor	Potomac	Conococheague Creek	Washington	Washington
Frederick	15.00	9/17/1934	21.60	33,500	Major	Potomac	Monocacy River at Jug Bridge	Frederick	Frederick

Rappahannock

Site	Flood Stage	Date	Crest	Flow	Category	Basin	Stream	County of Gage	County of Forecast Point
Culpeper	14.00	9/17/1934	19.53	21,900	Moderate	Rappahannock	Rapidan River	Culpeper	Culpeper

Weather Summary

Maddox Synoptic with TS so a hybrid - A late season heat wave affected the western United States with a massive 5940 m high over the west and a split in the ridge over the central United States. This set-up a north-south frontal boundary over the central United States with above normal PW. A tropical wave moved into the Gulf then propagated up the frontal boundary as it moved eastward. A plume of 4sigma PW and 4-5 sigma 850 hPa winds moved up the frontal boundary as it arrived along the East Coast. Thus heavy rains had the combined impact of the M-Synoptic frontal system with the enhanced winds and moisture associated with a tropical system. This rainfall type is one of the more effective heavy rainfall types in the eastern United States. – (Rich Grumm National Weather Service State College, PA)

Source: Grumm NWS WFO CTP

Crest Statistics and Flood Information

Second flood of 3 that occurred in Sep, 1934

Sixth flood of 8 that occurred in 1934

Number of Floods at MARFC Forecast Points - 7

Number of Floods Cresting in Minor Range - 4

Number of Floods Cresting in Moderate Range - 1

Number of Floods Cresting in Major Range - 2

Number of Floods Cresting in Missing Range - 0