

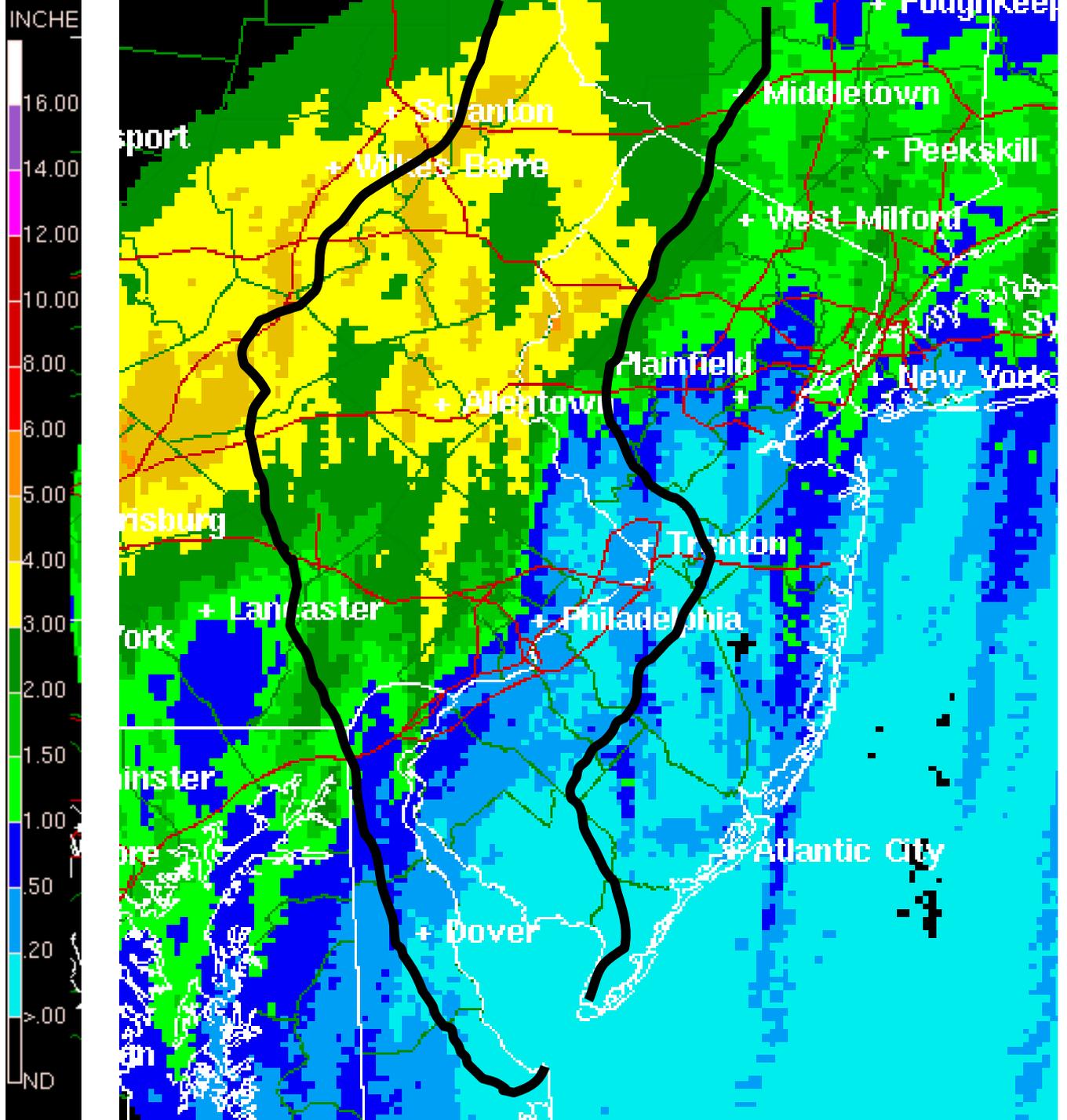
Delaware River Flooding from Tropical Storm Ivan – September 18-20, 2004



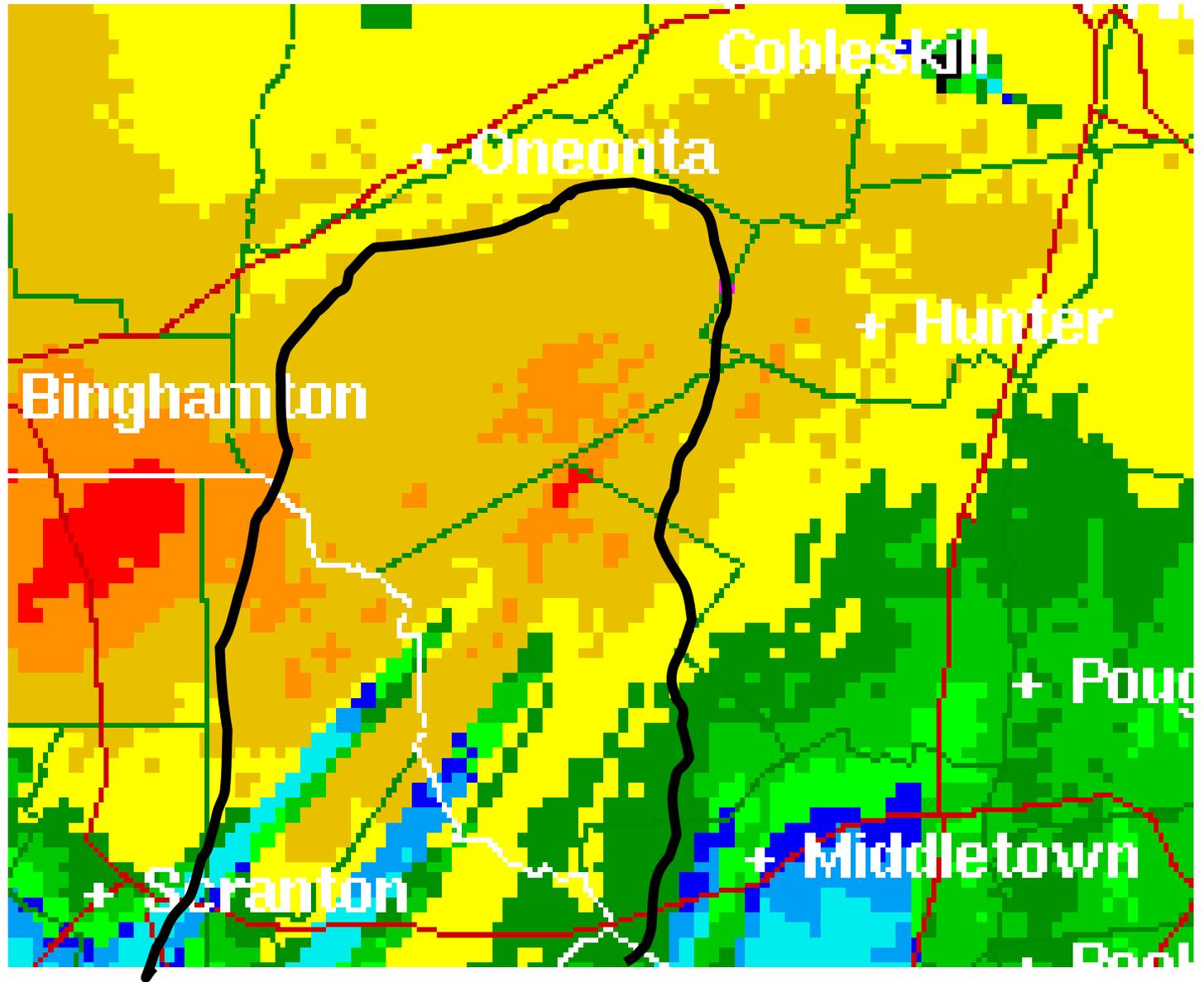
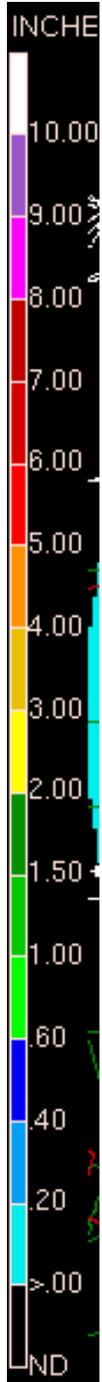
On September 17 and early on September 18, 2004, most of the Delaware River Basin upstream of Trenton received 3 to 5 inches of rain from Tropical Storm Ivan in a 12-hour period. Much of the heavier rain occurred in the mountainous sections of the basin in the Poconos and Catskills.

This rain fell on soils already saturated by rain from tropical storm Frances and previous storms

Based on this rainfall and runoff modeling results, the National Weather Service predicted major flooding along the full non-tidal reach of the Delaware River. Major flooding did occur on September 18-20.



September 17-18 Rainfall in Upper Delaware Basin

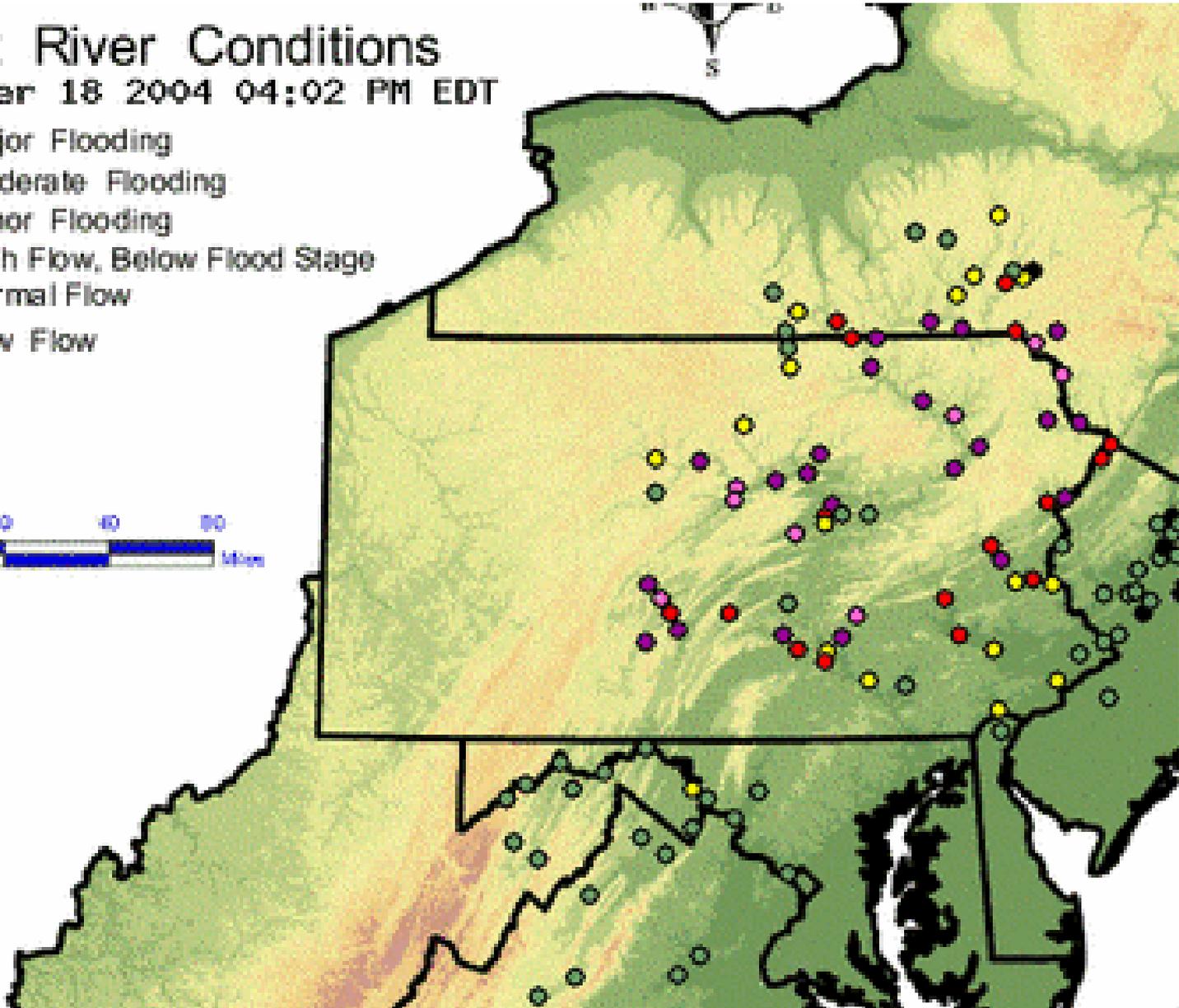


By afternoon on September 18, USGS stream gages indicated that major flooding was occurring in the upper Delaware River and tributaries.

Current River Conditions

September 18 2004 04:02 PM EDT

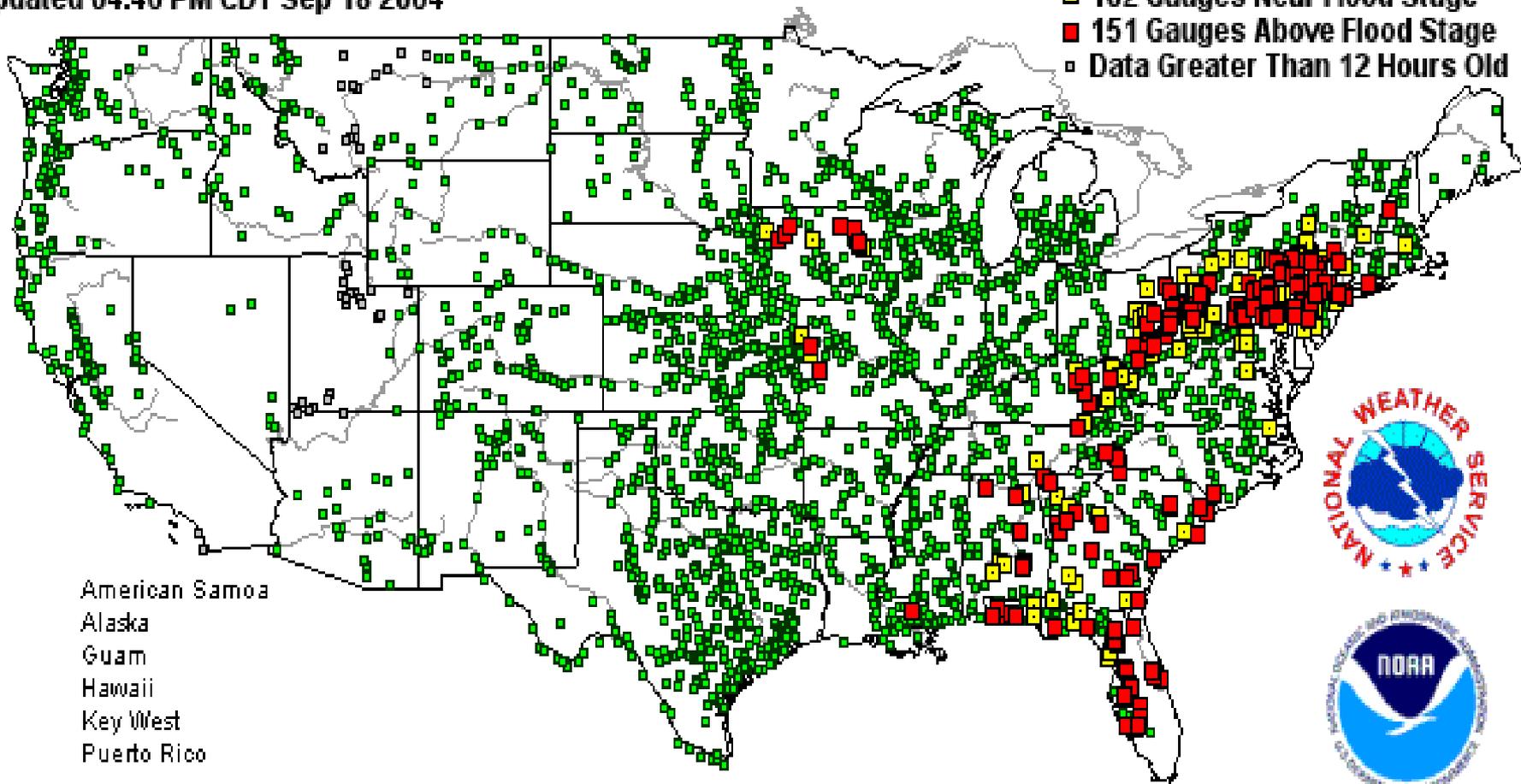
- Major Flooding
- Moderate Flooding
- Minor Flooding
- High Flow, Below Flood Stage
- Normal Flow
- Low Flow



By the afternoon of September 18, approximately 250 stream gages included in the National Weather Service's AHPS prediction network were above or near flood stage in the Eastern United States.

Advanced Hydrologic Prediction Service
Updated 04:40 PM CDT Sep 18 2004

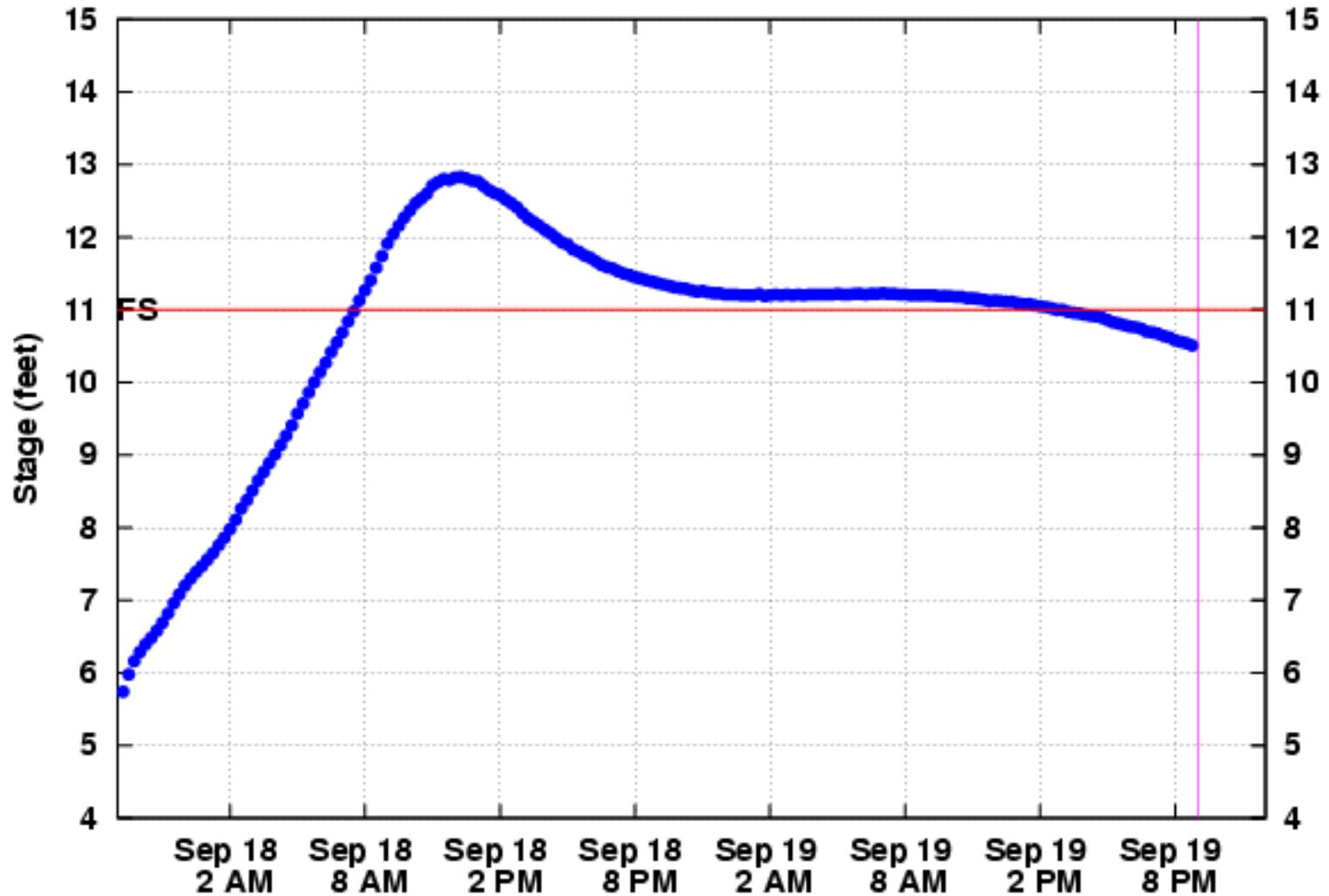
- 2464 Gauges Below Flood Stage
- 102 Gauges Near Flood Stage
- 151 Gauges Above Flood Stage
- Data Greater Than 12 Hours Old



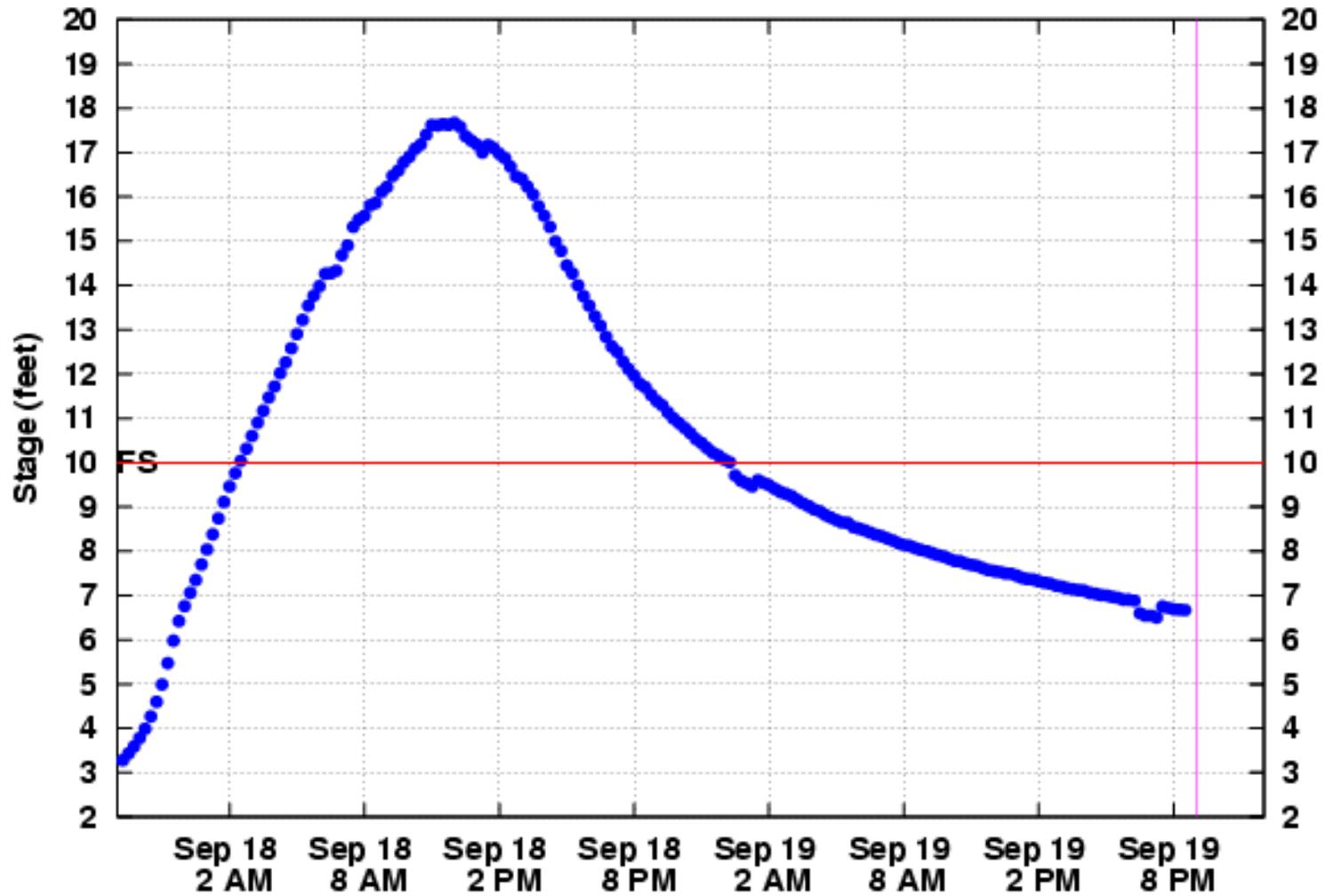
American Samoa
Alaska
Guam
Hawaii
Key West
Puerto Rico



Observed Stages for Hale Eddy, NY on W. Br. Delaware R.

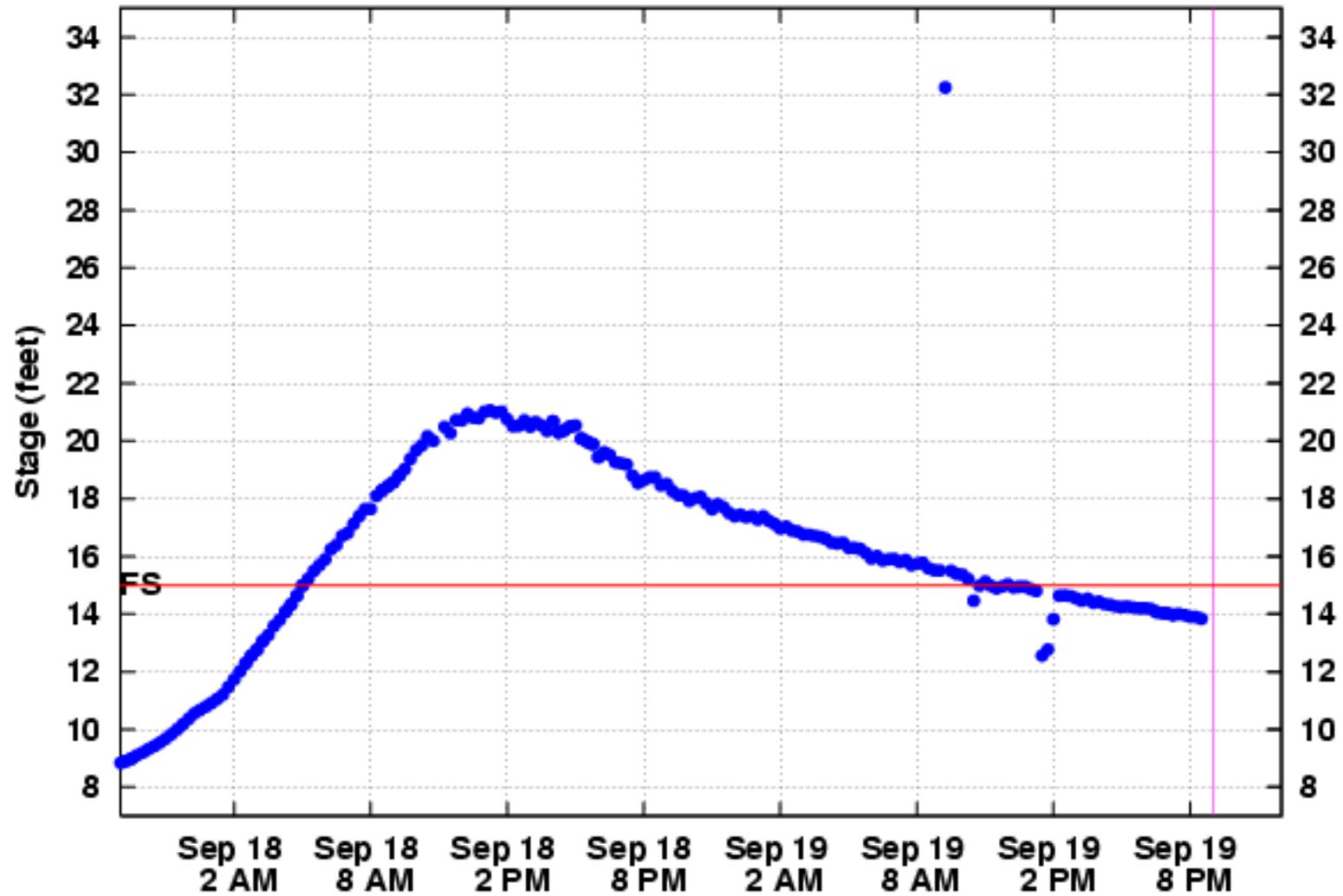


Observed Stages for Cooks Falls, NY on Beaver Kill



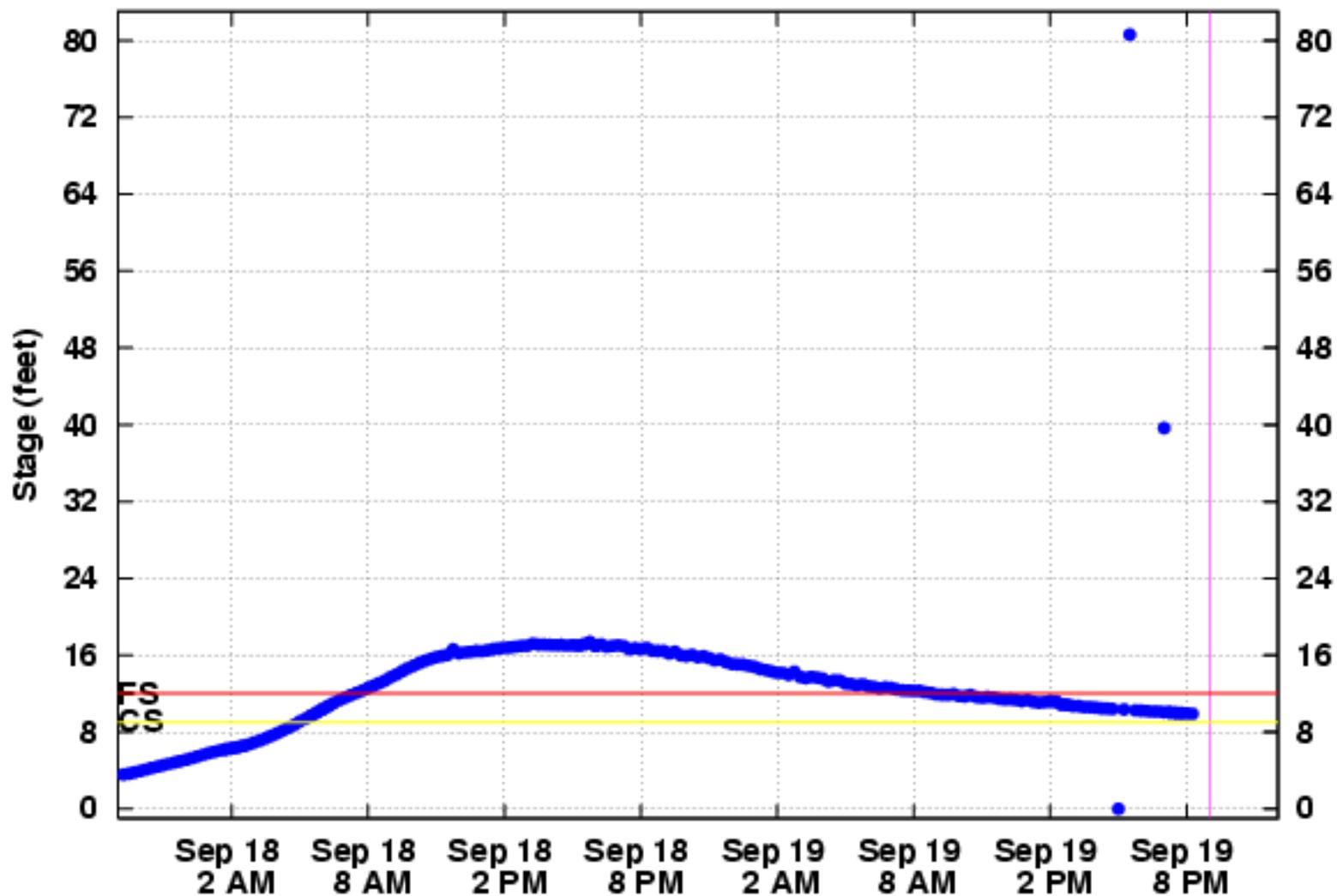
Date / Time (Local Time)
Middle Atlantic River Forecast Center, State College PA

Observed Stages for Fishs Eddy, NY on E. Br. Delaware R.



Date / Time (Local Time)
Middle Atlantic River Forecast Center, State College PA

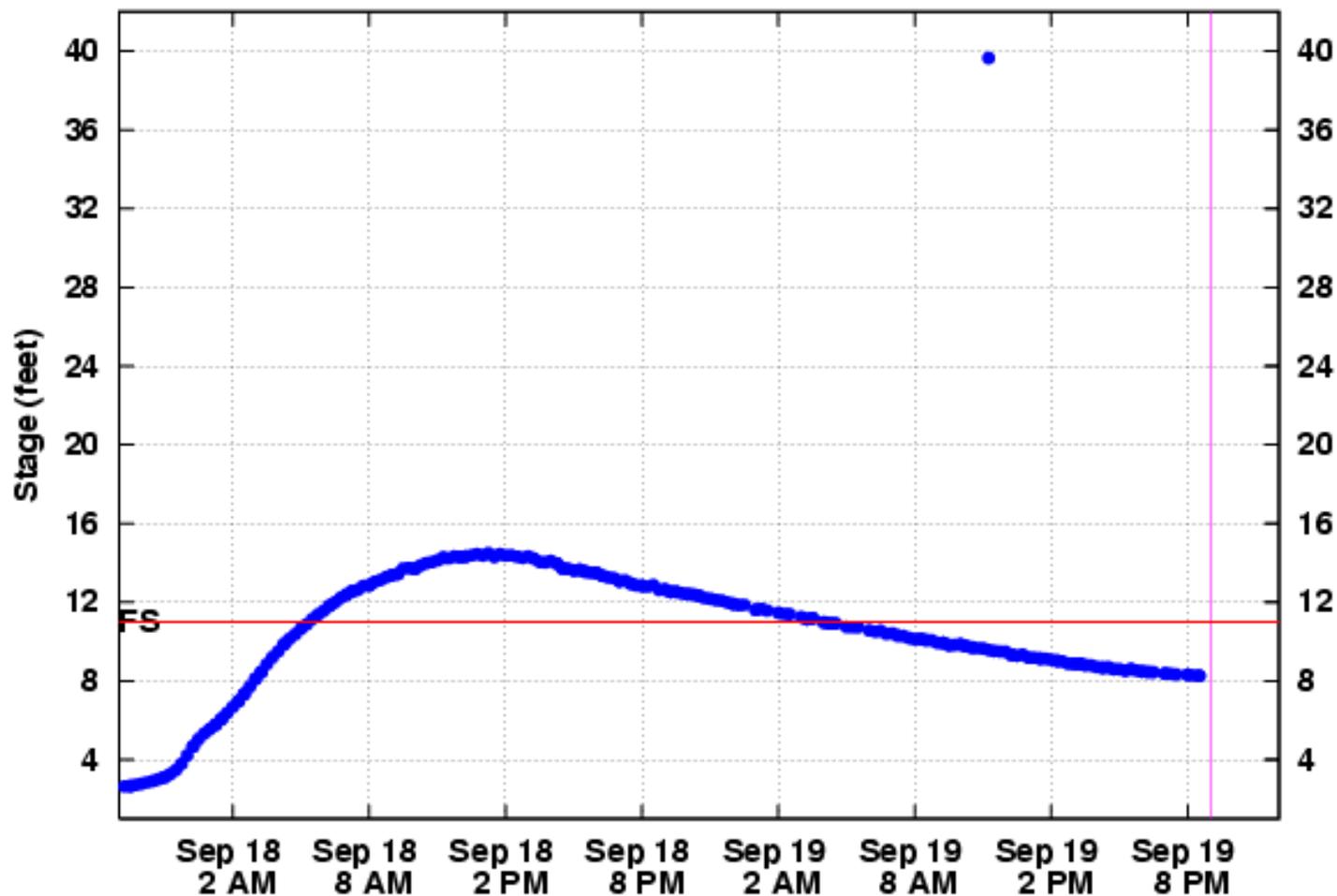
Observed Stages for Callicoon, NY on Delaware River



Date / Time (Local Time)

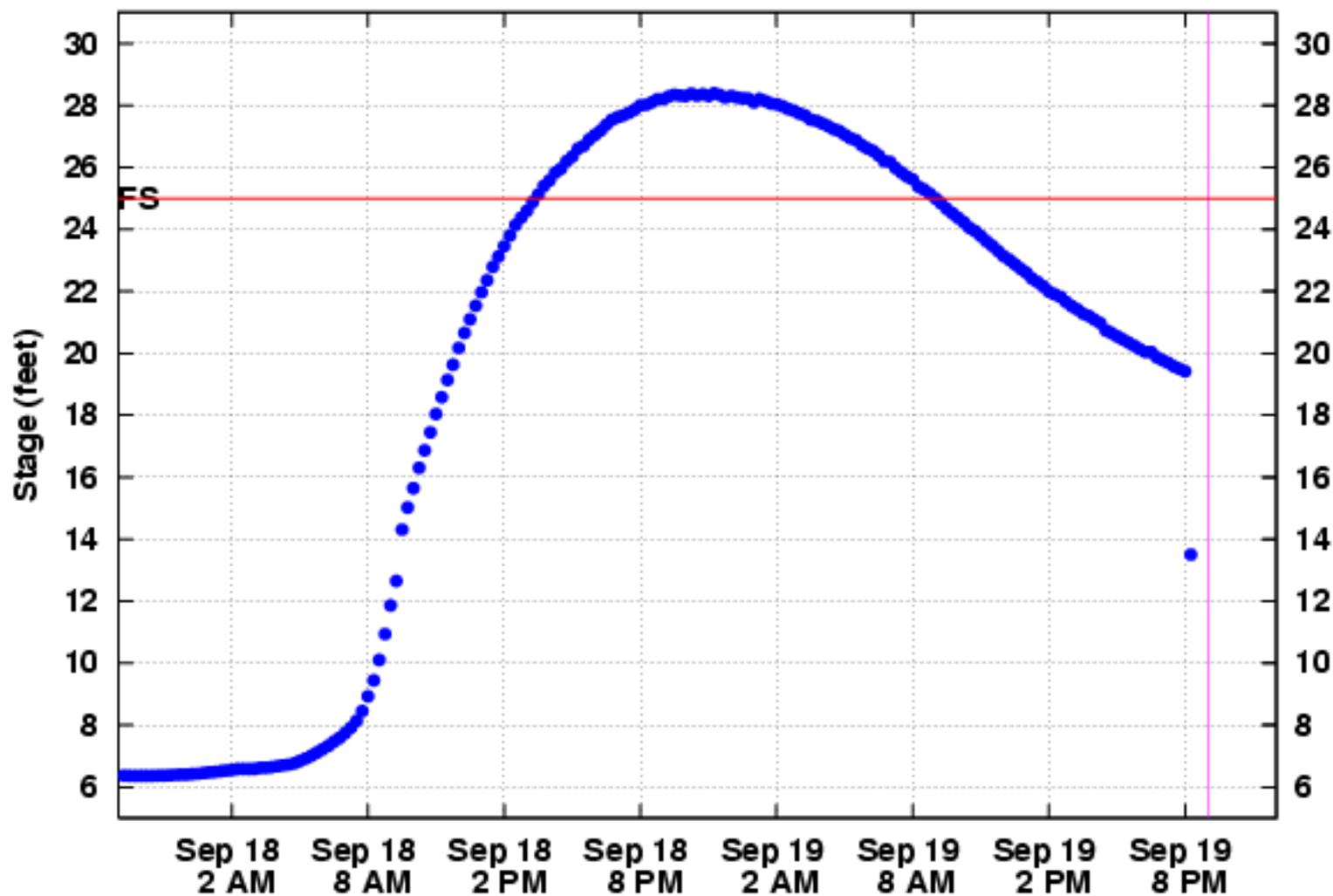
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Observed Stages for Hawley, PA on Lackawaxen River



Date / Time (Local Time)
Middle Atlantic River Forecast Center, State College PA

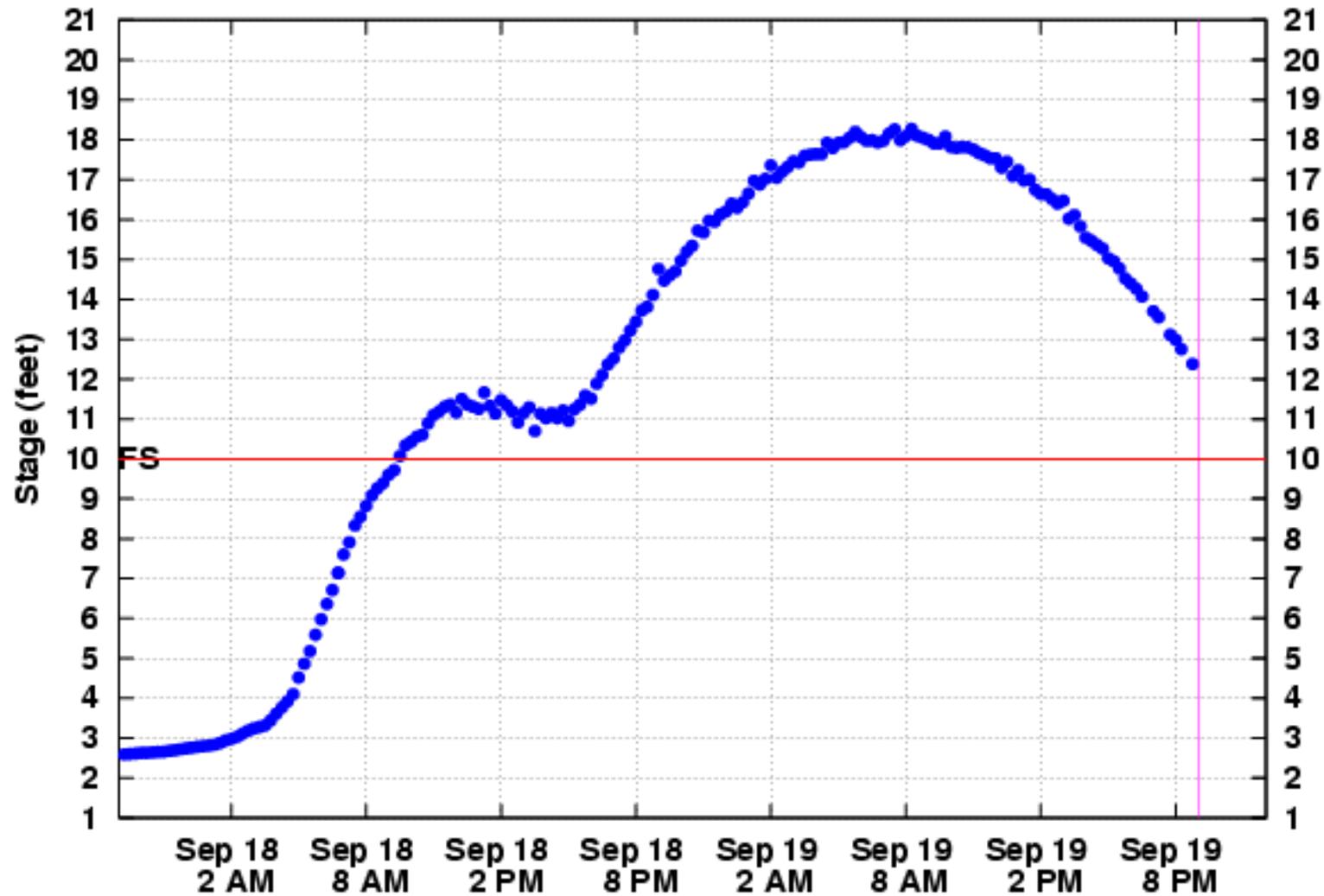
Observed Stages for Montague, NJ on Delaware River



Date / Time (Local Time)

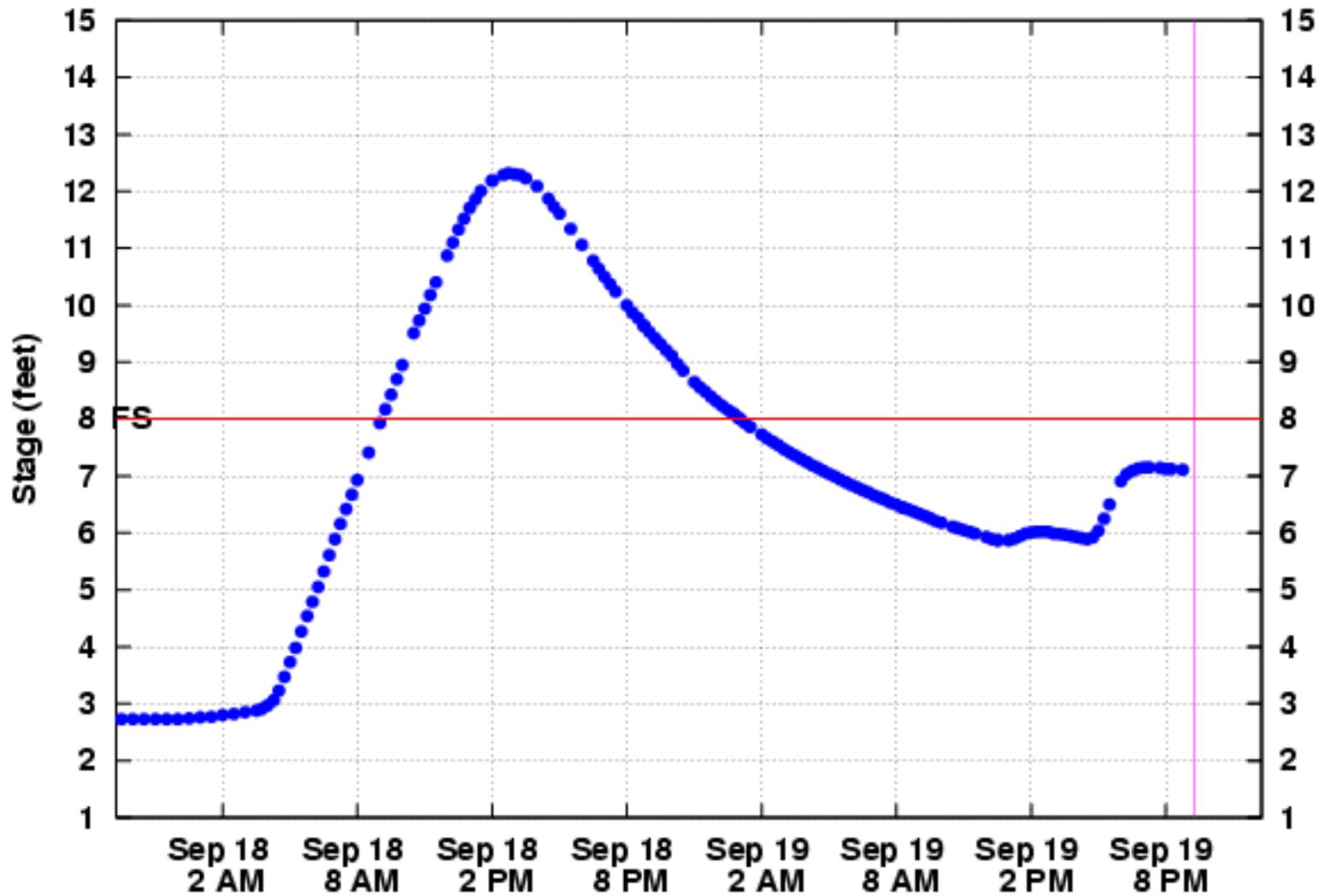
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Observed Stages for Minisink Hills, PA on Broadhead Ck



Date / Time (Local Time)
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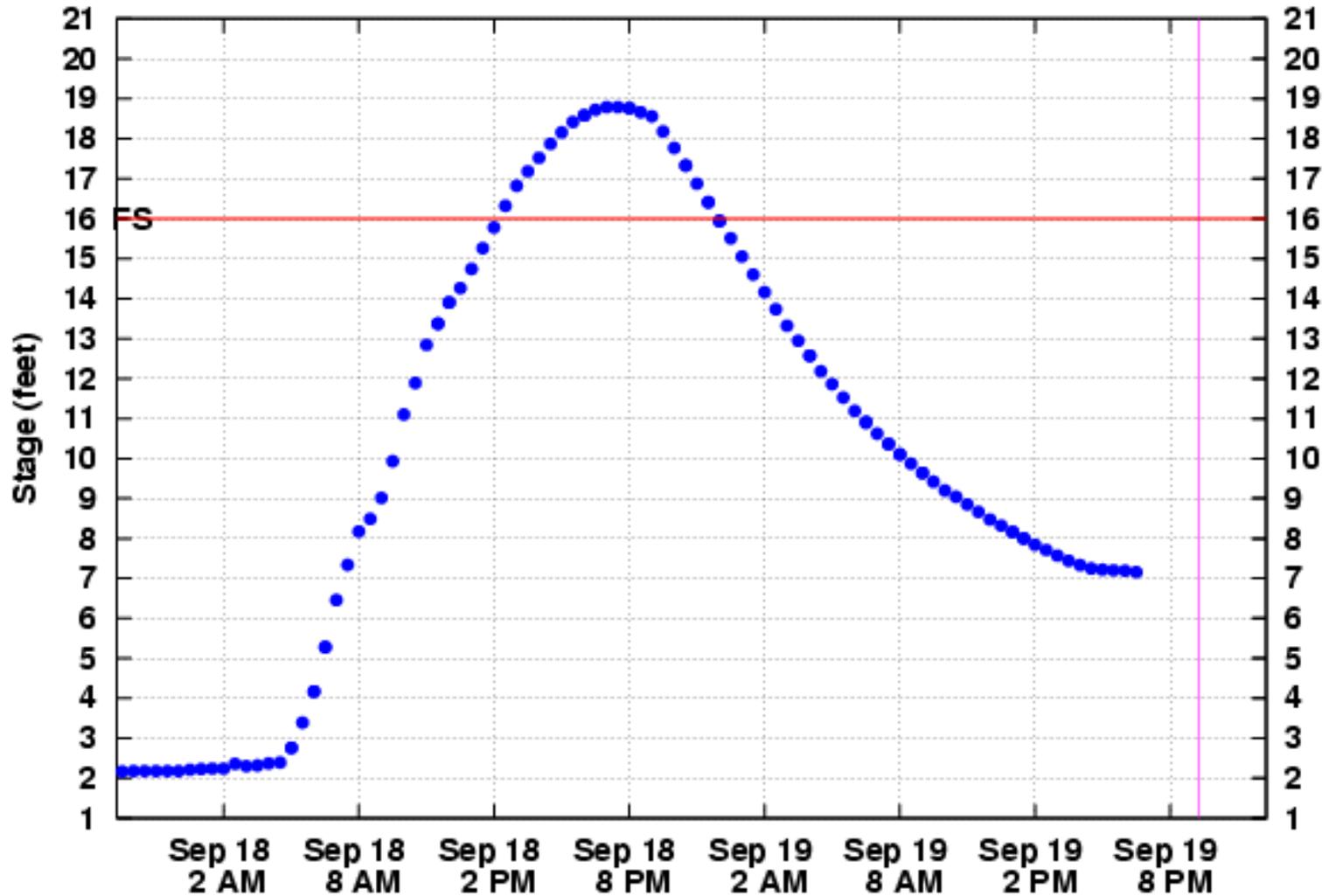
Observed Stages for Walnutport, PA on Lehigh River



Date / Time (Local Time)

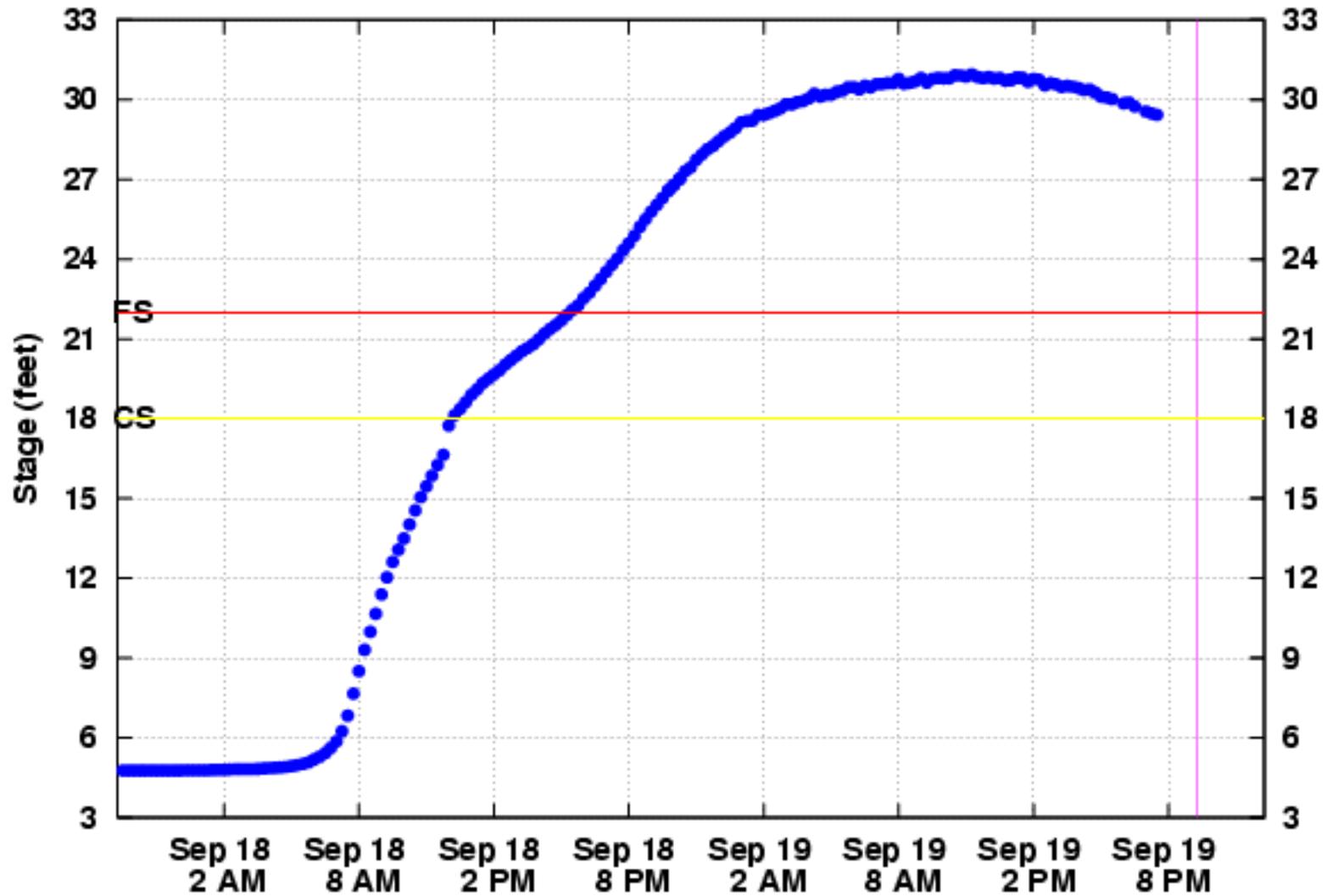
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Observed Stages for Bethlehem, PA on Lehigh River



Date / Time (Local Time)
Middle Atlantic River Forecast Center, State College PA

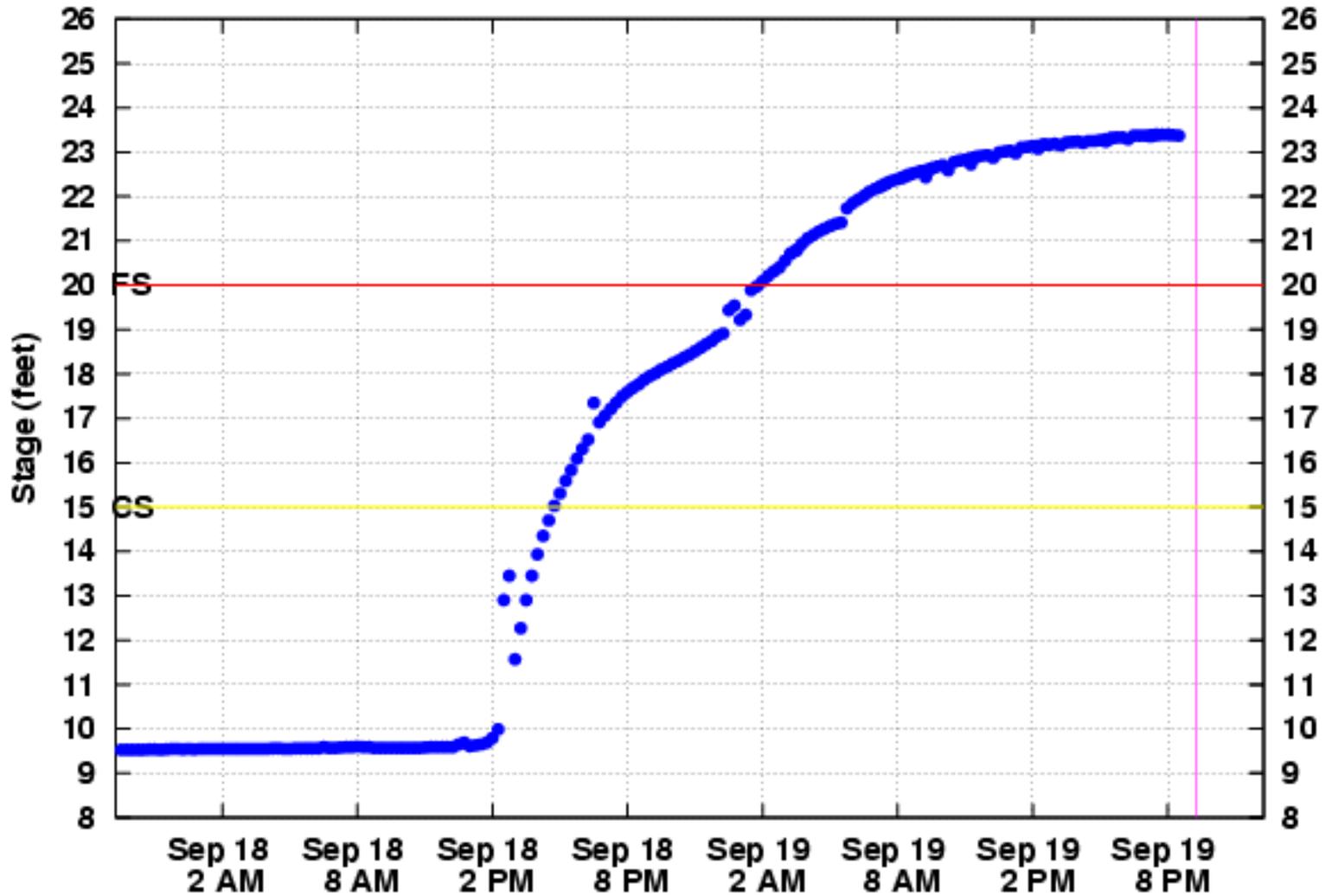
Observed Stages for Riegelsville, NJ on Delaware River



Date / Time (Local Time)

Middle Atlantic River Forecast Center, State College PA

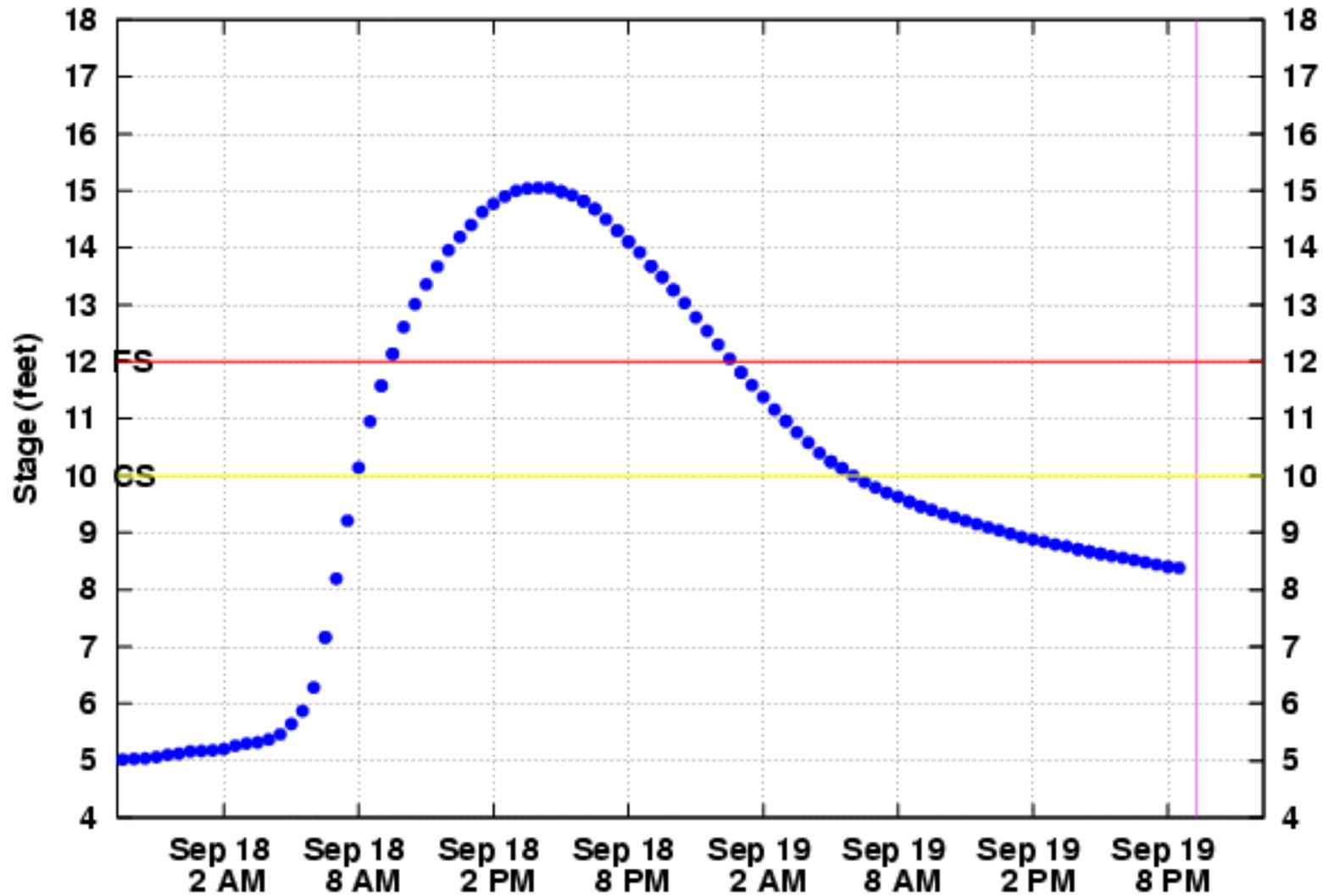
Observed Stages for Trenton, NJ on Delaware River



Date / Time (Local Time)

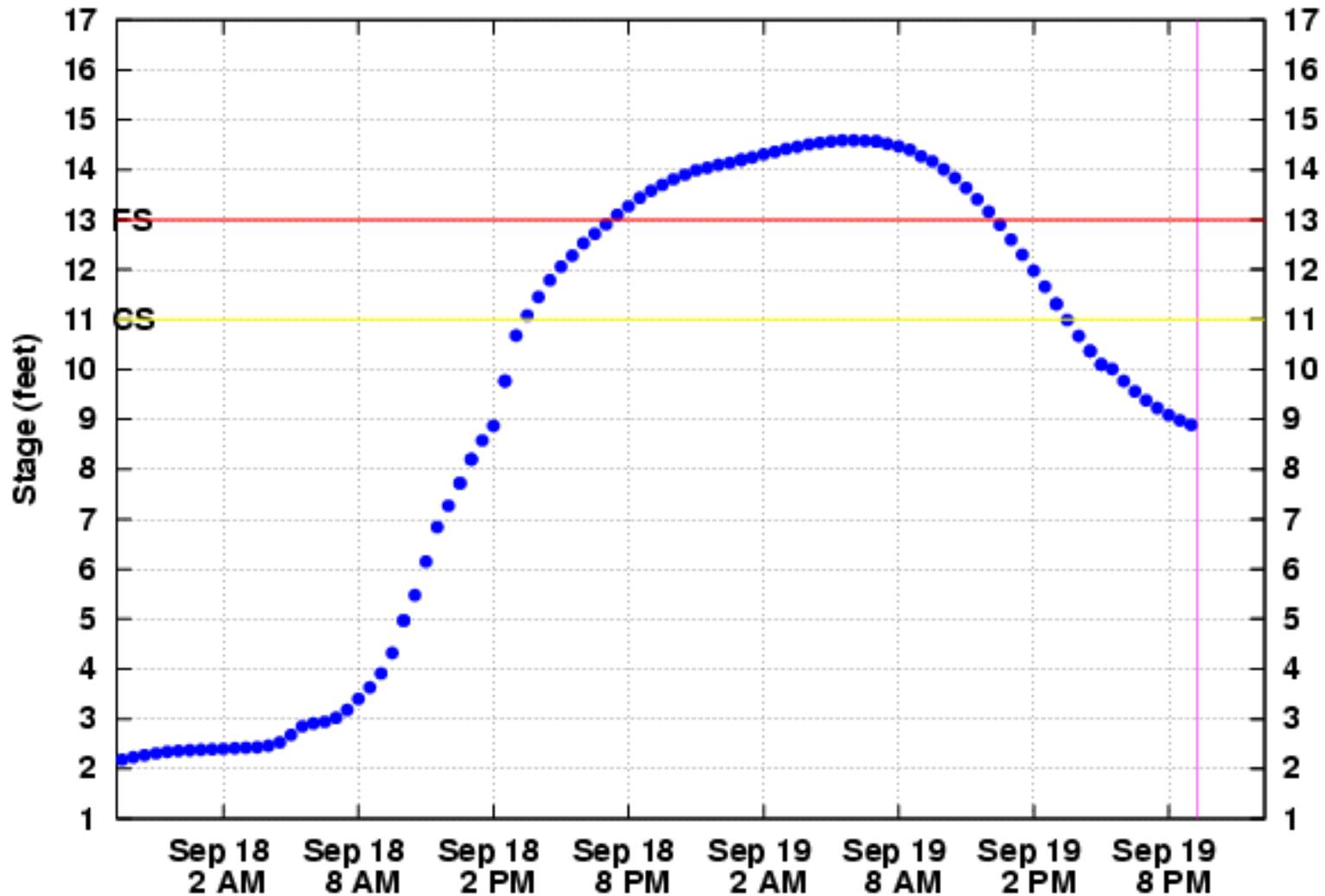
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Observed Stages for Berne, PA on Schuylkill River

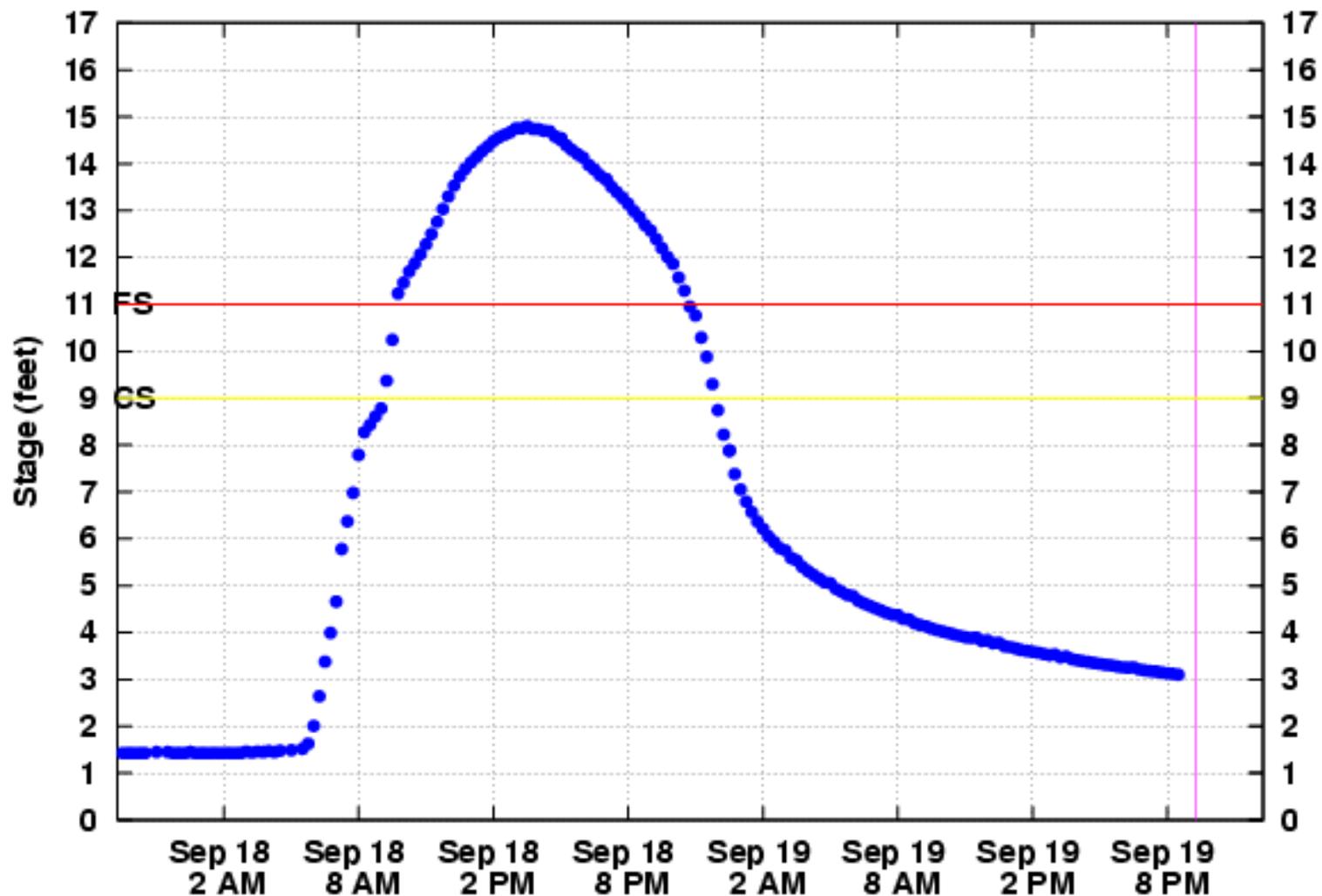


Date / Time (Local Time)
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Observed Stages for Pottstown, PA on Schuylkill River



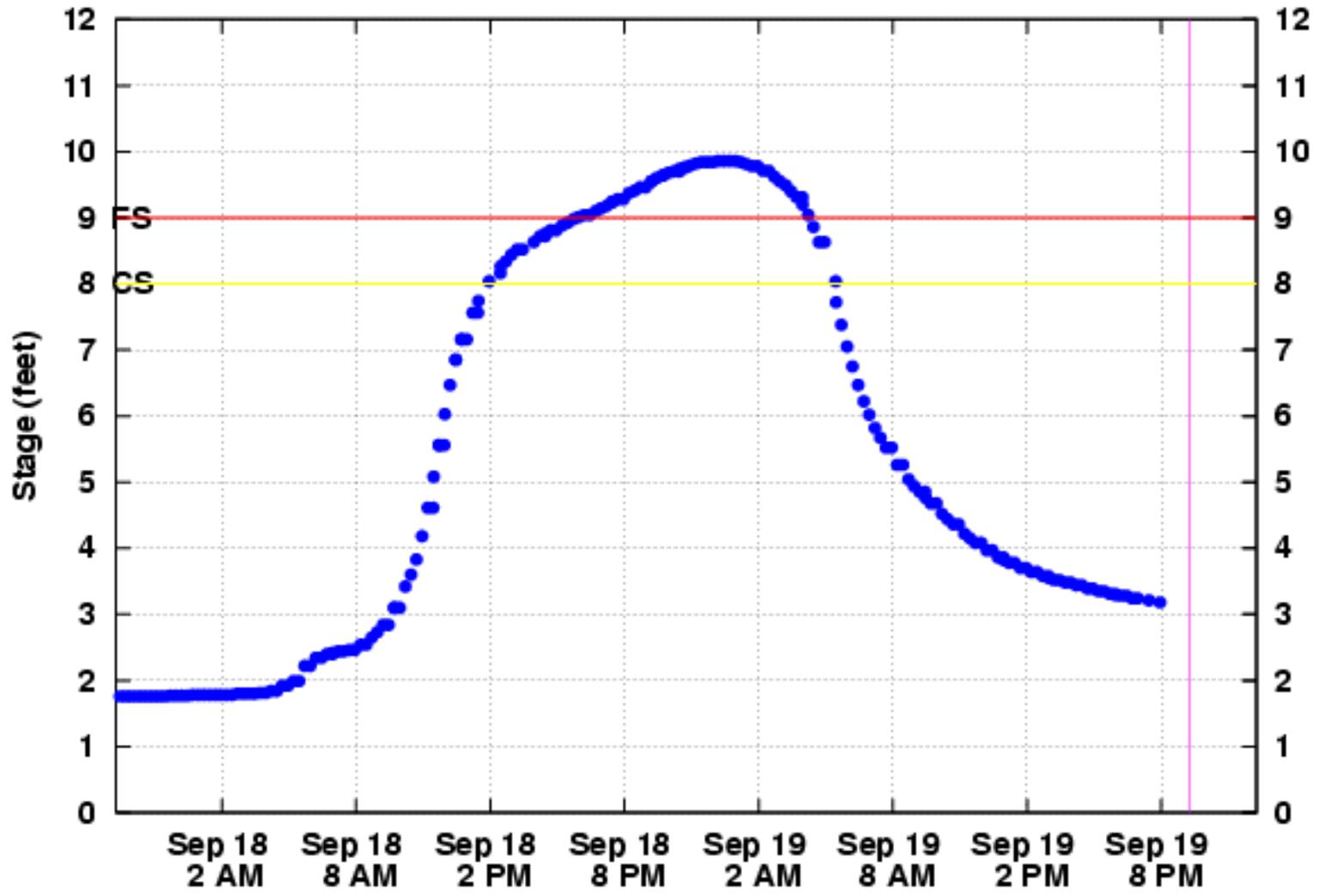
Observed Stages for Graterford, PA on Perkiomen Creek



Date / Time (Local Time)

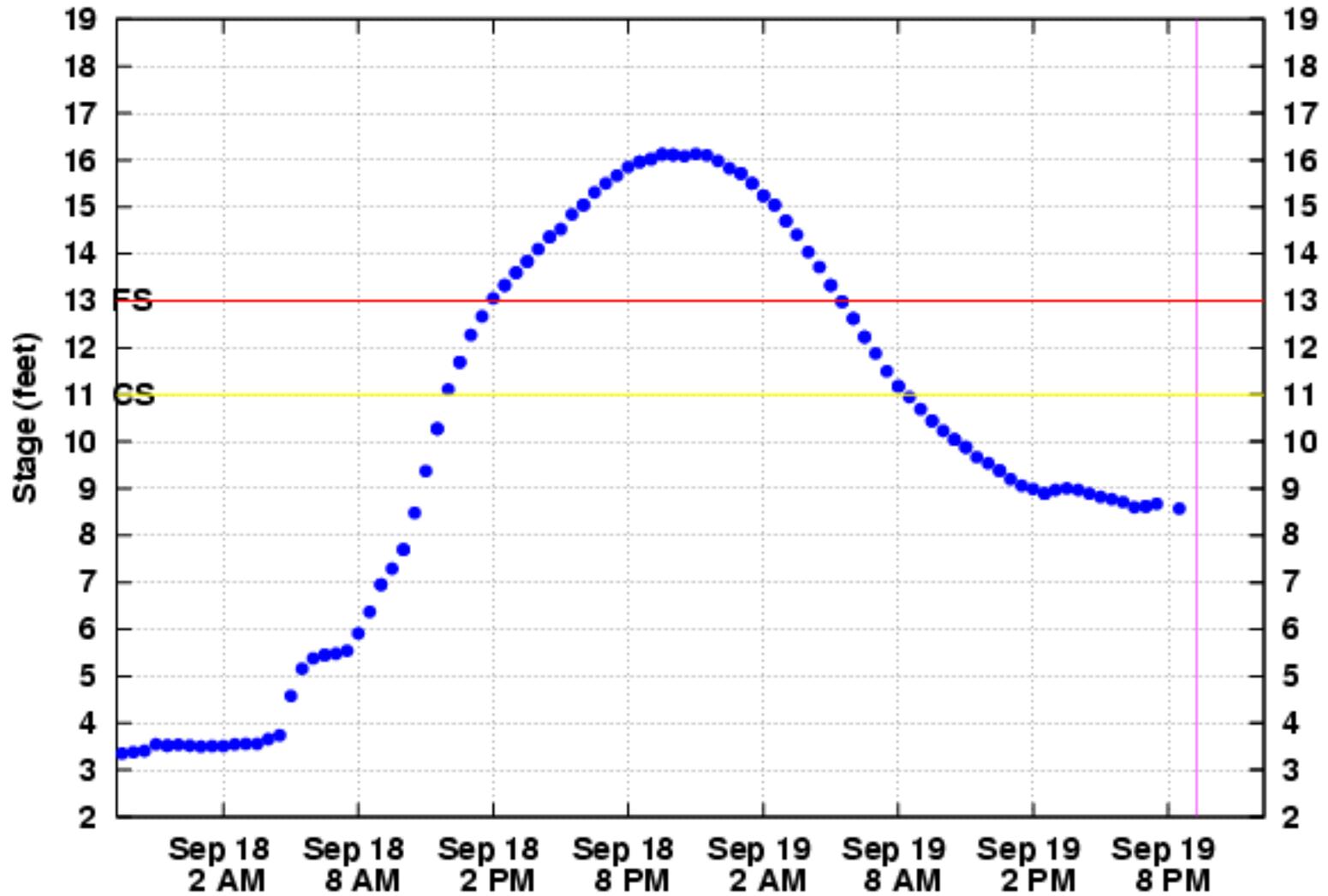
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Observed Stages for Chadds Ford, PA on Brandywine Creek



Date / Time (Local Time)
Middle Atlantic River Forecast Center, State College PA

Observed Stages for Reading, PA on Schuylkill River



Date / Time (Local Time)

Middle Atlantic River Forecast Center, State College PA

Washington Crossing, NJ



Washington Crossing, NJ - - Upstream of Bridge - - September 19, 2004 - - 3 P.M.
Trenton Stage = 23.2 ft.



Washington Crossing, NJ - - Downstream of Bridge - - September 19, 2004 - - 3 P.M.
Trenton Stage = 23.2 ft.



Washington Crossing, NJ - - Downstream of Bridge - - September 19, 2004 - - 3:15 P.M.
Trenton Stage = 23.2 ft.



Flood Spectators - Washington Crossing, NJ - - Downstream of Bridge - - September 19, 2004 - - 3:15 P.M.
Trenton Stage = 23.2 ft.





Police, fire, and emergency personnel from riverside and nearby communities worked around the clock to barricade flooded roadways, close bridges, and assist flooded residents. The flood was widely covered by the television networks.



Washington Crossing, NJ - - Hopewell Township, NJ Emergency Vehicle - - September 19, 2004 - - 3:15 P.M.
Trenton Stage = 23.2 ft. - - All DRJTBC Bridges other than I-95, Rt 202 Expressway, and Rt 1 Closed.



Yardley, PA



Yardley, PA - - 0.2 Miles North of Afton Ave, Taken from Canal Path looking toward Delaware River.
September 19, 2004 - - 4:10 P.M. Trenton Stage = 23.2 ft. – Flooded homes between River and Canal



Yardley, PA - - at Afton Ave, Taken from Canal Path looking toward Delaware River.
September 19, 2004 - - 4:15 P.M. Trenton Stage = 23.2 ft. – Flooded Gas Station Parking Lot.

