

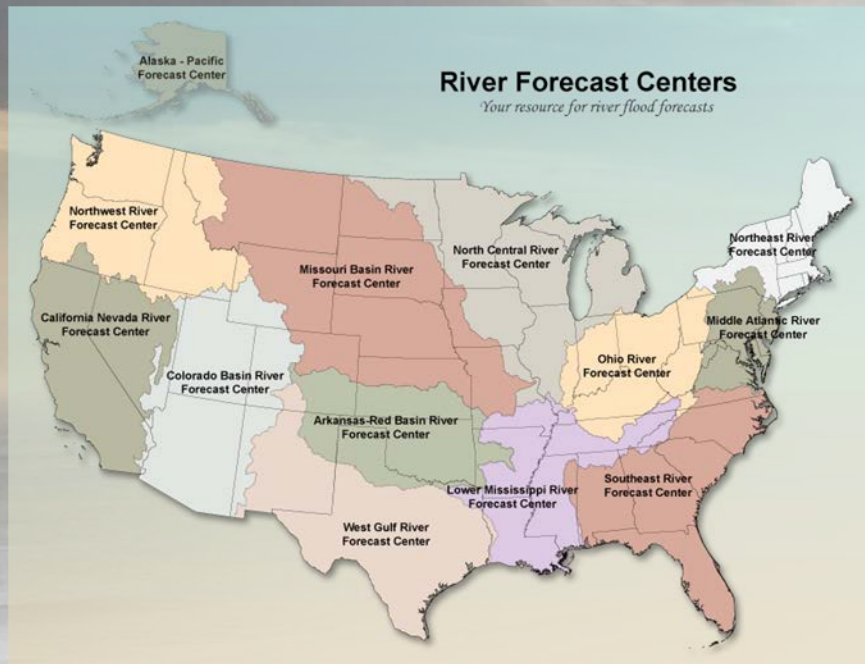
Middle Atlantic River Forecast Center

Robert Shedd
Hydrologist-in-Charge



Working together to
save lives.

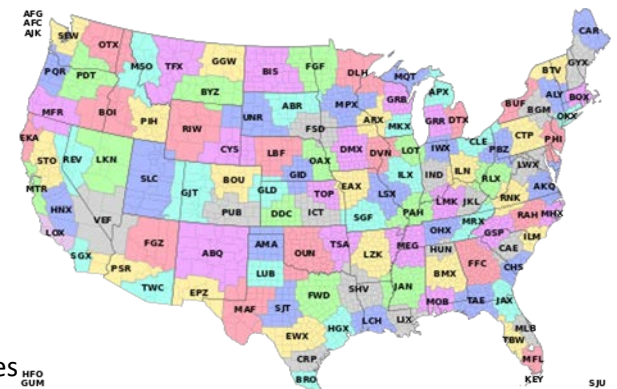
NWS River Forecast Centers



NWS has 13 River Forecast Centers (RFCs)

MARFC's area of responsibility includes 7 states (NY, NJ, PA, MD, DE, WV, VA) & DC

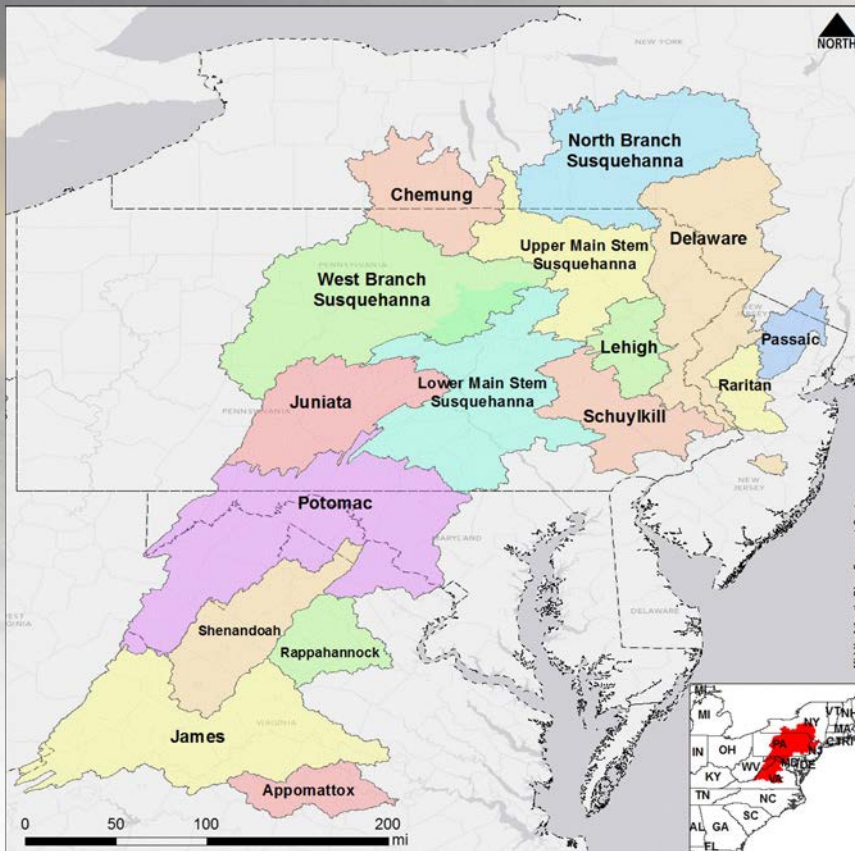
Note: Western Pennsylvania is covered by the Ohio River Forecast Center in Wilmington, OH.



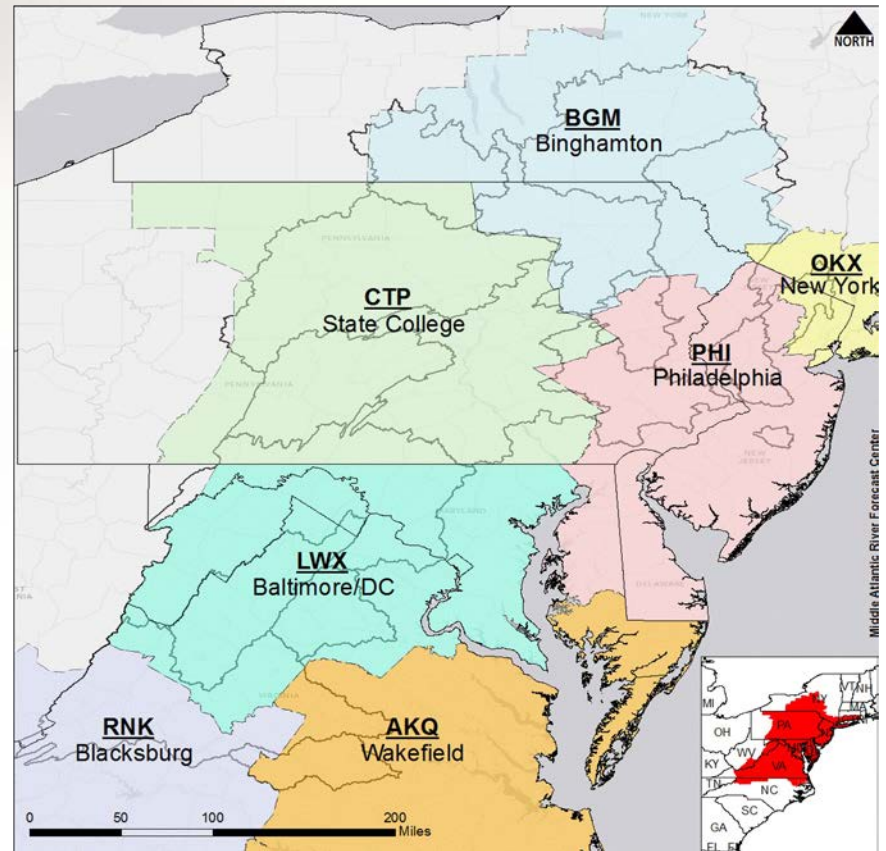
MARFC Basins and WFOs

Provide service to 7 different Weather Forecast Office

Mid-Atlantic River Basins



Mid-Atlantic WFOs

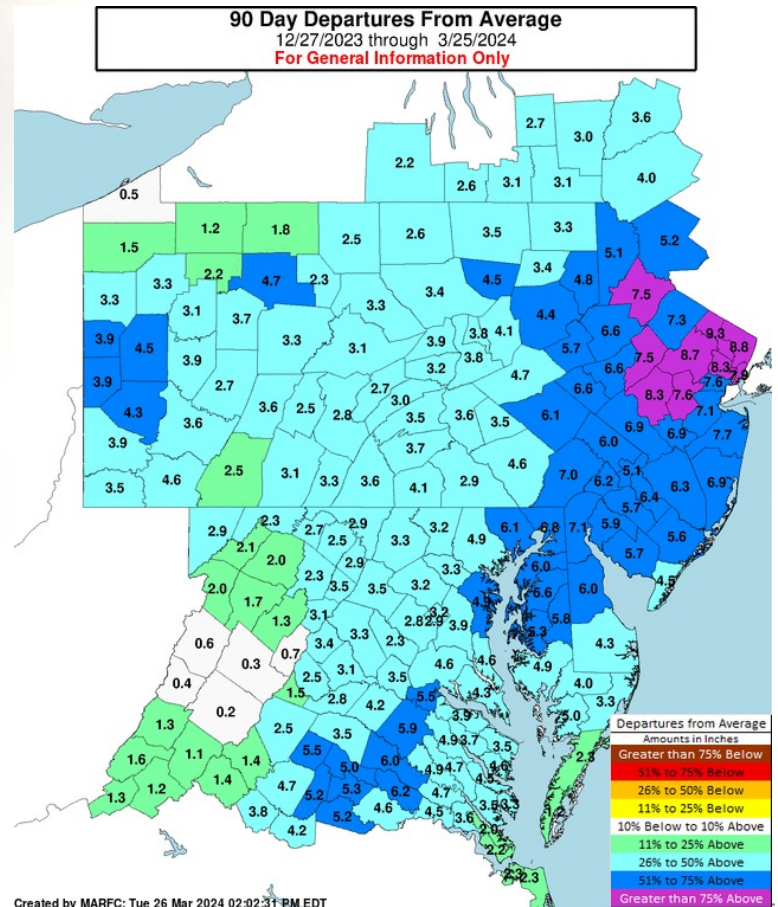
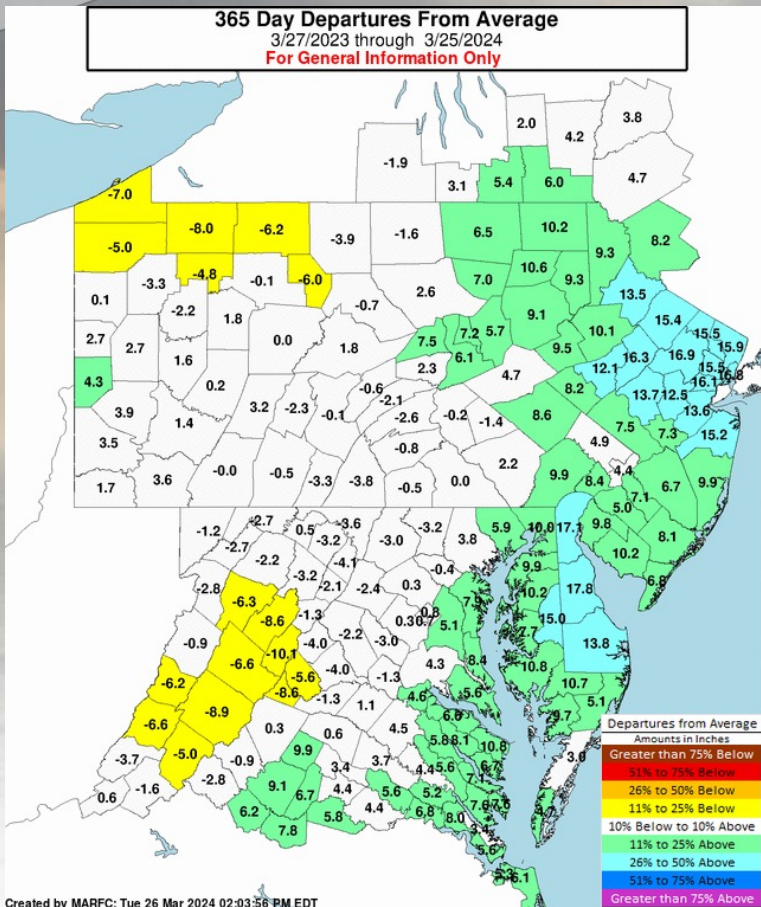


Why do we care about hydrology and flooding?

- Worldwide, over 5000 lives lost each year from flooding.
- Over 100 in the U.S. alone.
- Flooding causes \$40 billion in damages per year worldwide.
- Timely flood warnings and accurate river forecasts are critical to saving lives and property.

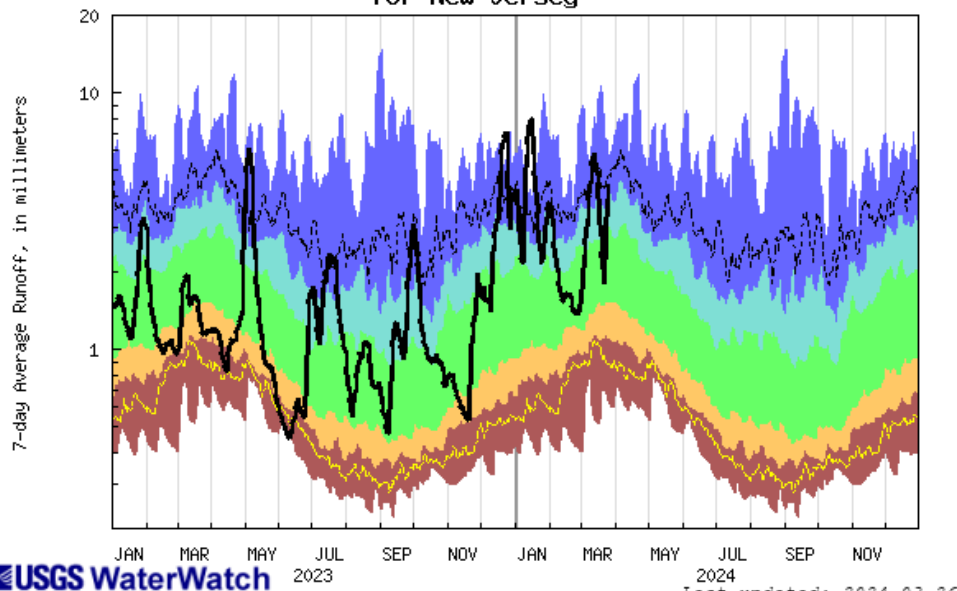


Precipitation Departures

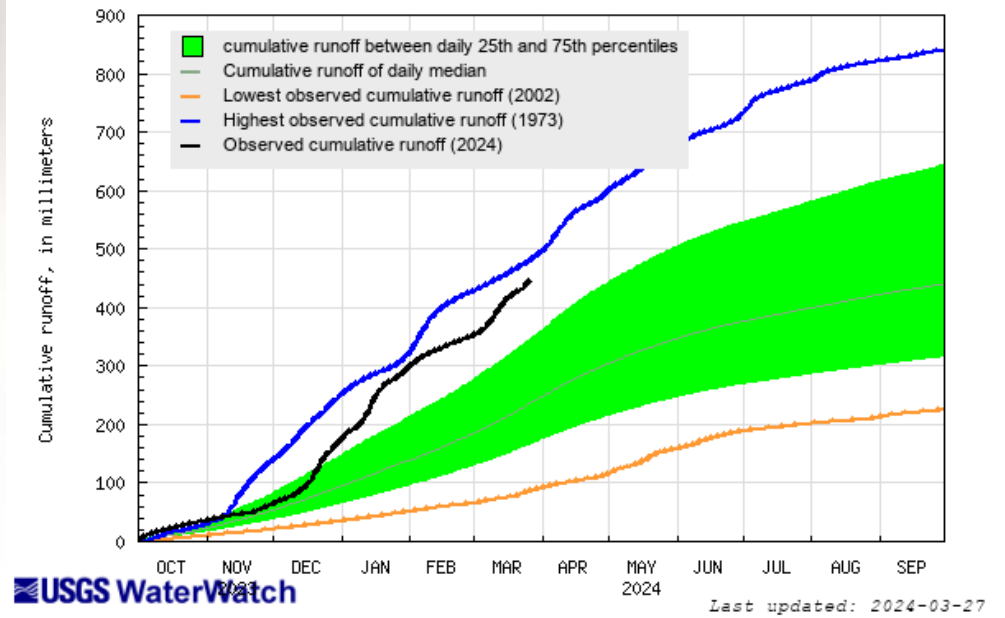


New Jersey Runoff

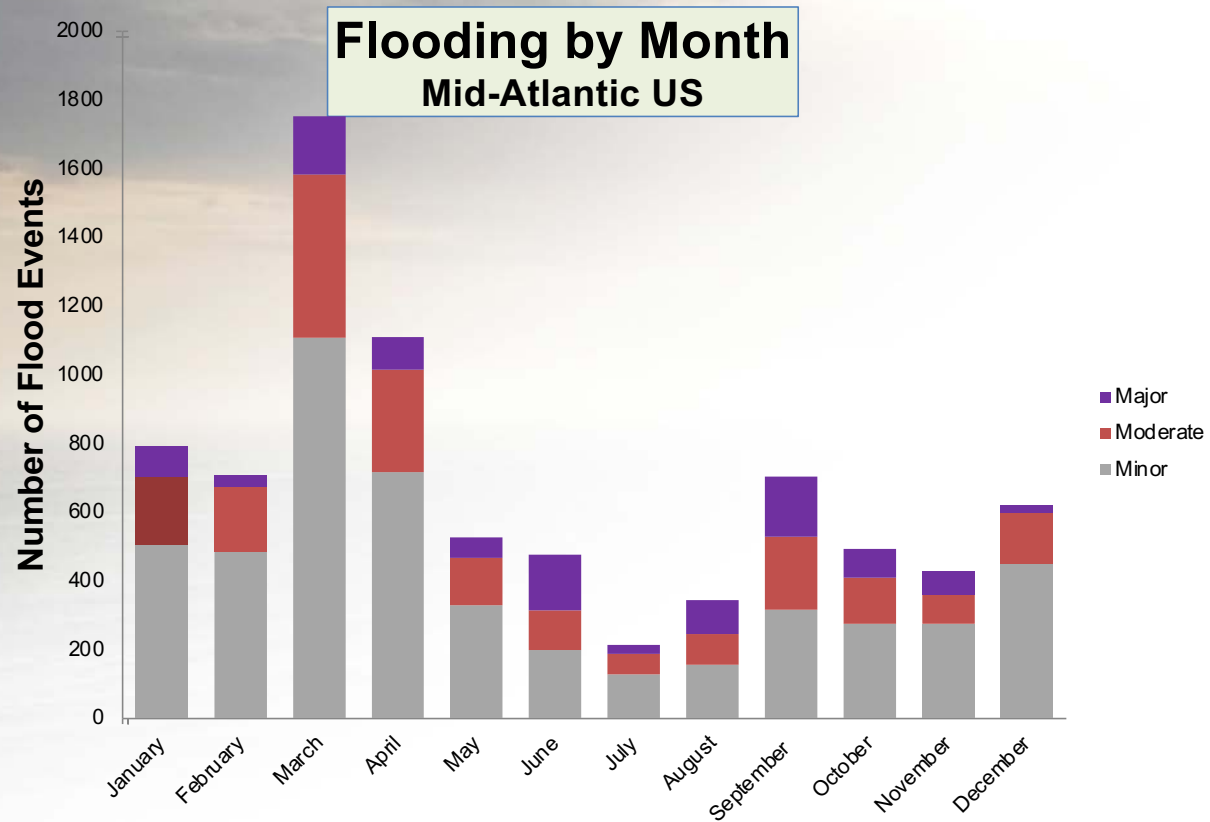
Duration hydrograph of 7-day average runoff for New Jersey



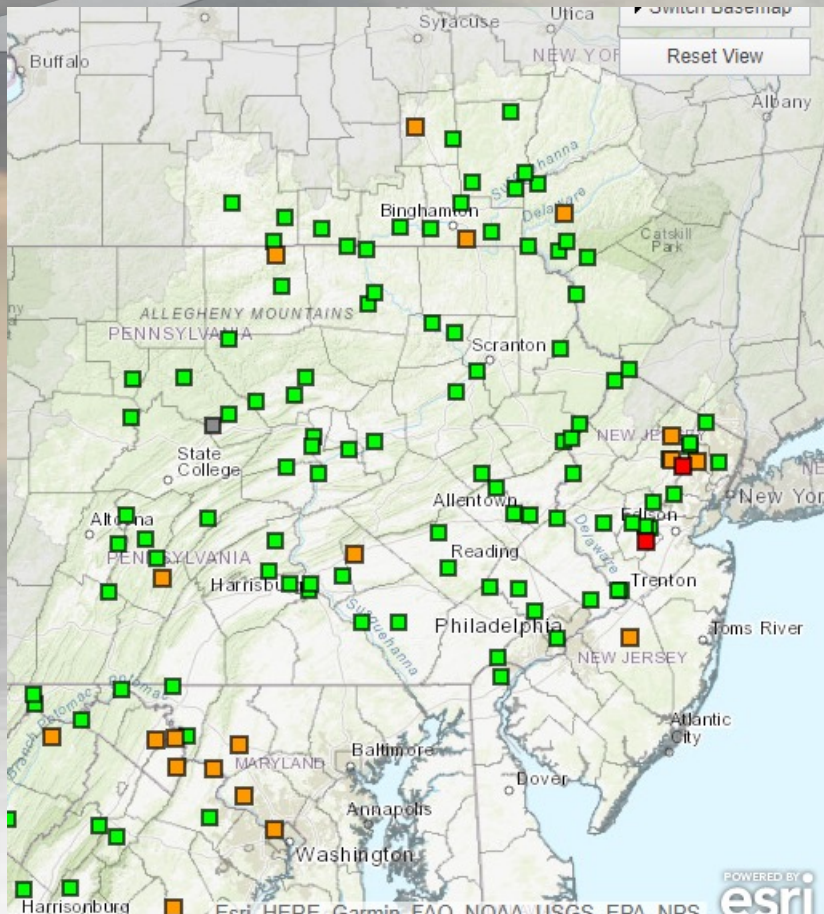
Hydrograph of cumulative 7-day average runoff for New Jersey



Flooding Can Happen Any Time



HEFS Long Range Outlook



Return to national map

Click on the map or select one of the data views below:

- United States
- NWS Weather Forecast Offices
- Middle Atlantic River Forecast Center
- Water Resources Regions

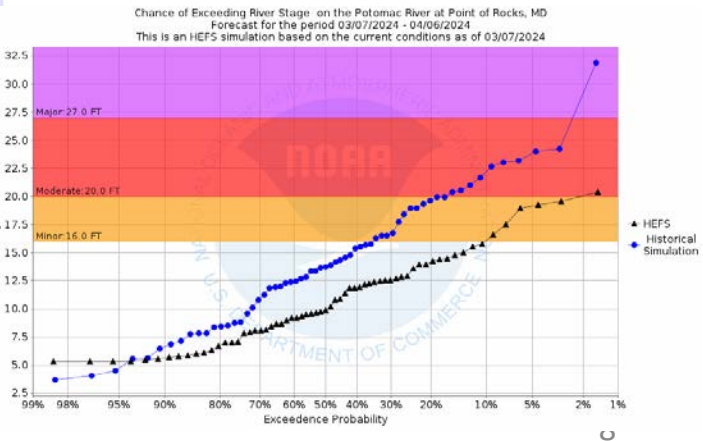
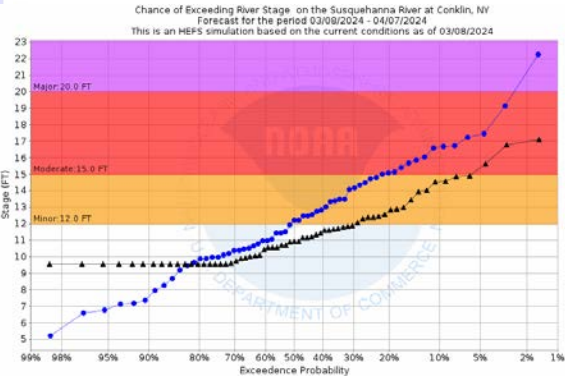
145 total gauges
 Show locations with 25% or greater chance of flooding during Mar-Apr-May (24)

- 0 Gauges: > 25% Major Long-Range Flood Risk
- 2 Gauges: > 25% Moderate Long-Range Flood Risk
- 22 Gauges: > 25% Minor Long-Range Flood Risk
- 120 Gauges: < 25% Long-Range Flood Risk
- 1 Gauges: No forecast within selected timeframe

Show all locations

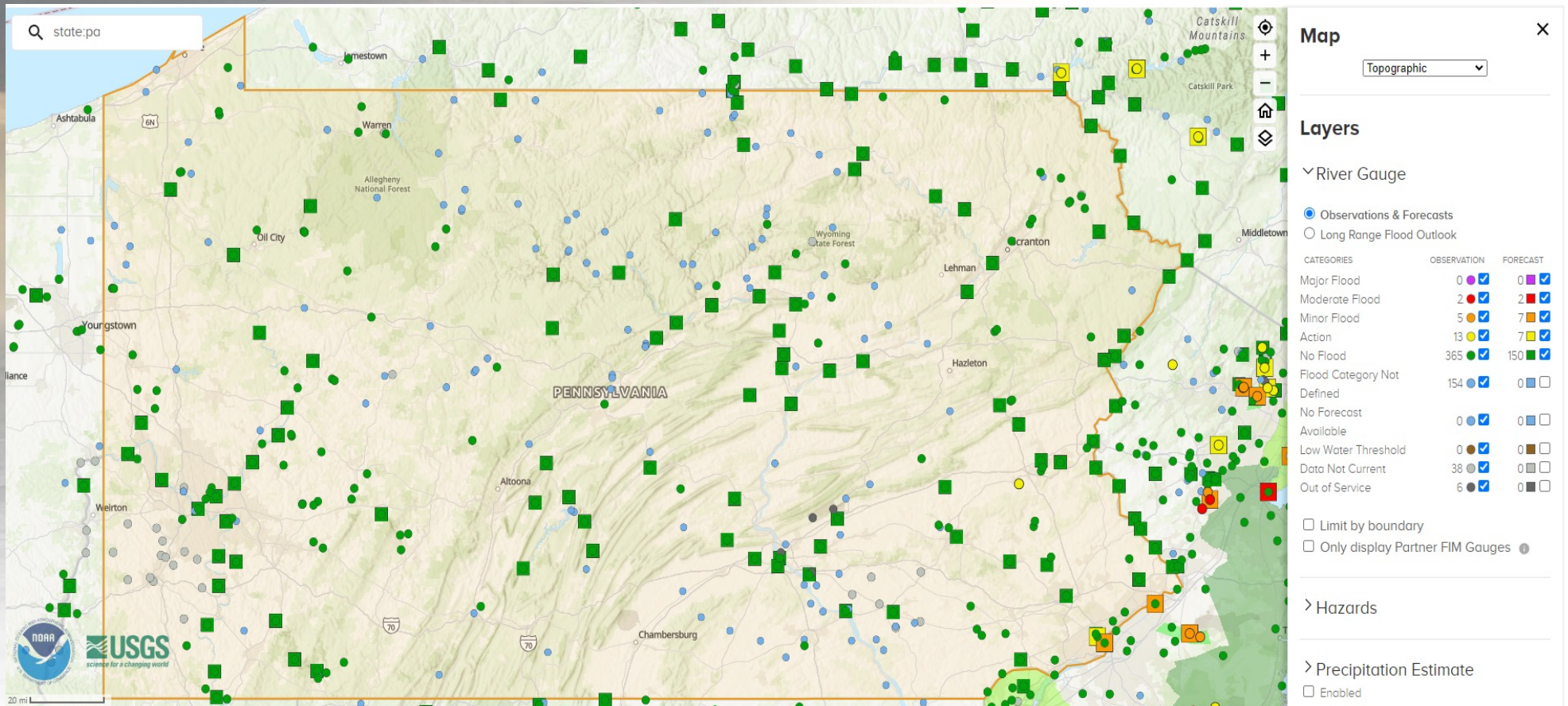
Last map update:
 03/27/2024 at 07:48:32 am EDT
 03/27/2024 at 11:48:32 UTC

[What is UTC time?](#)
[Map Help](#)
[Product Description](#)
[Feedback](#)
[Disclaimer](#)



National Water Prediction Service – water.noaa.gov

A new and improved service to replace the aging AHPS



National Water Prediction Service

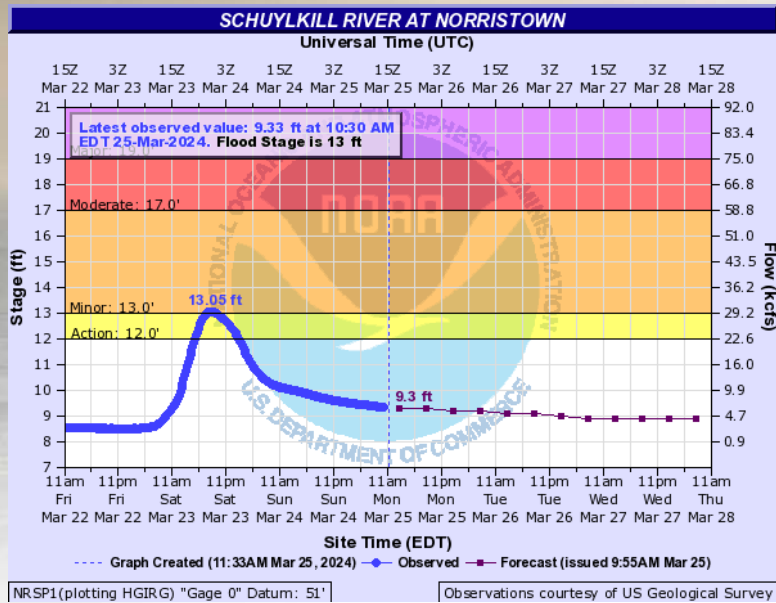
AHPS (Old)

Schuylkill River at Norristown, PA

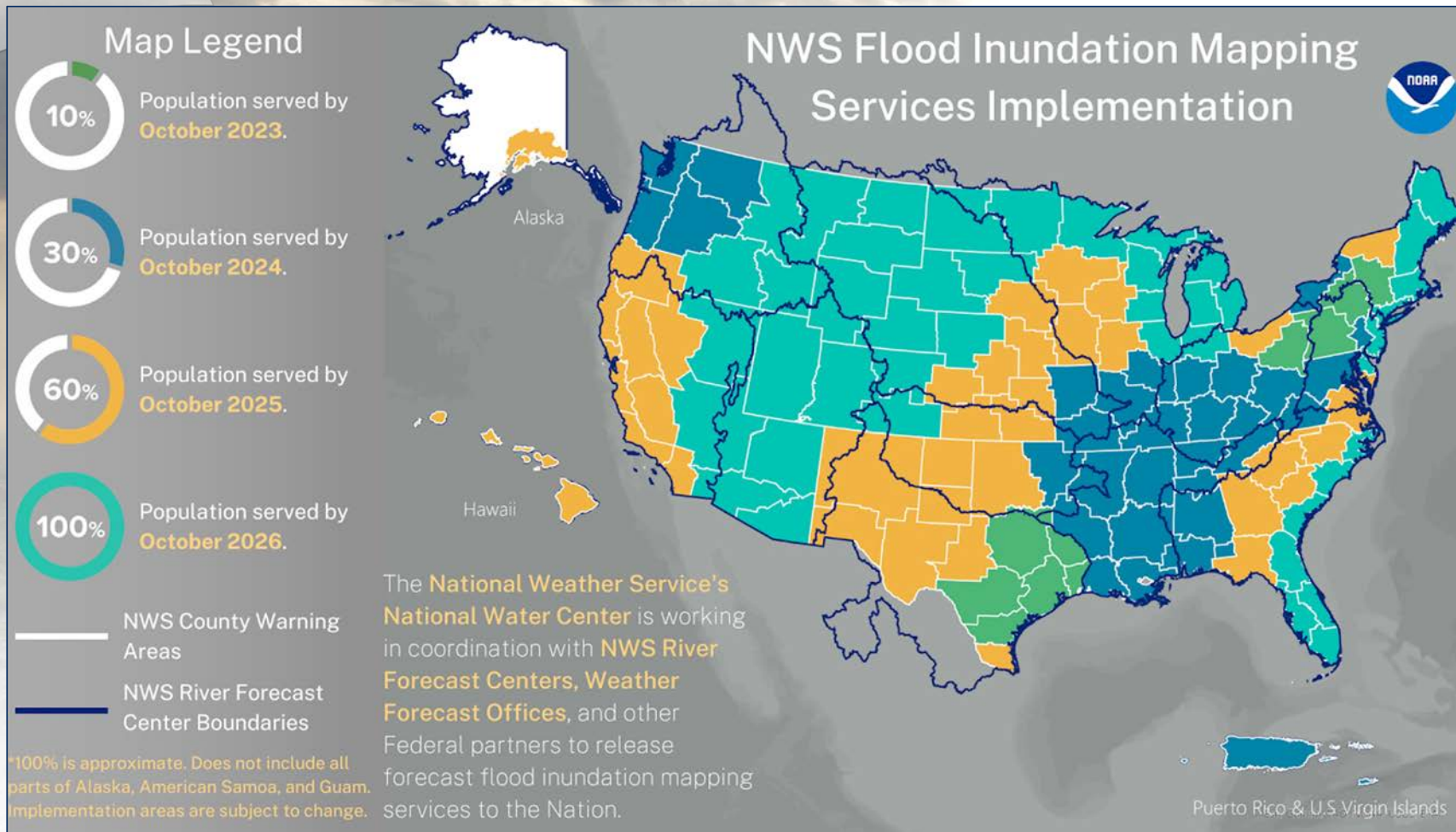


NWPS (New)

Schuylkill River at Norristown, PA



NWS Flood Inundation Map (FIM) Rollout Phases





Flood Inundation Map

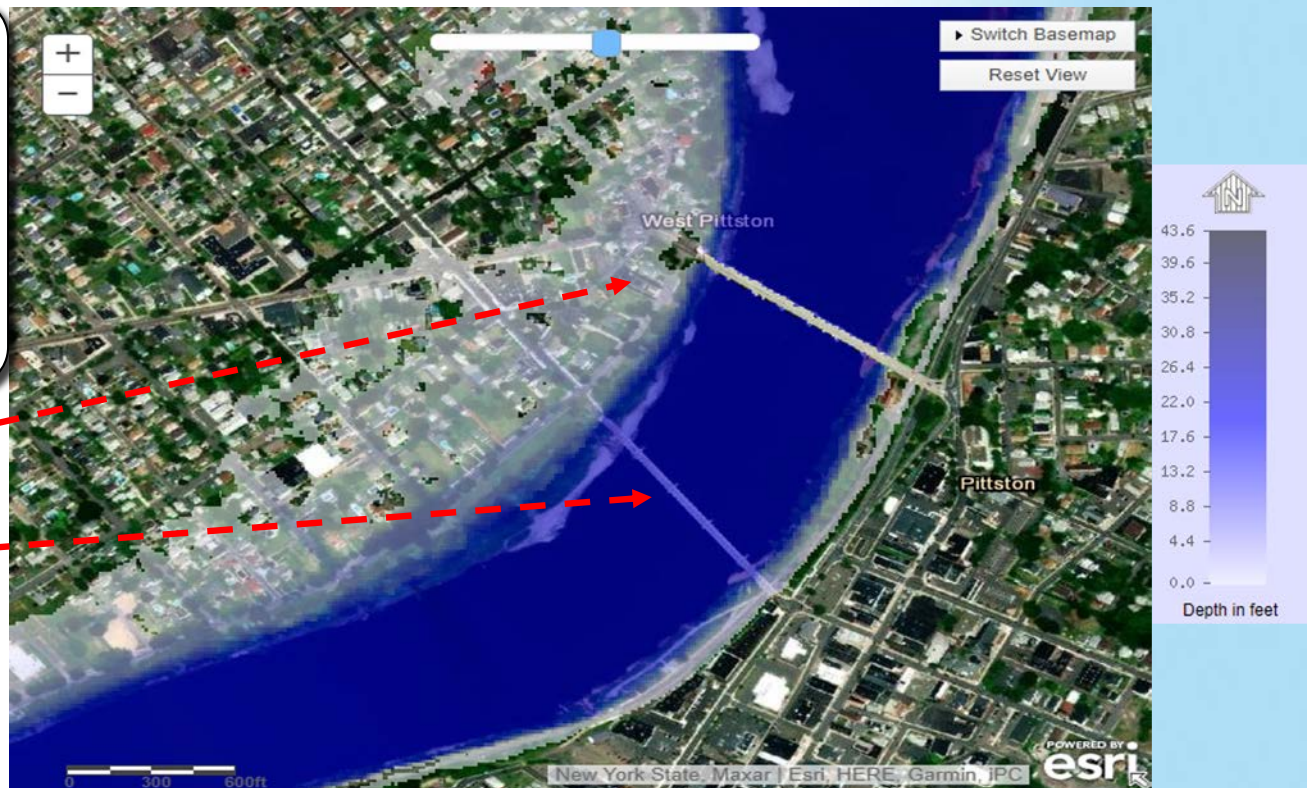
Reasonable Worst Case Scenario - Wilkes-Barre, PA

Susquehanna River at Wilkes-Barre, PA

Inundation Level Shown: **39.0 Feet (Major Flood)**
Forecast Crest Height: **30.9 Feet (Major Flood)**
FIM Source: NWS - AHPS FIM
FIM Creation Time: 8:15 AM Sep 7, 2011

➤ View [NWS Flood Maps Online](#)

- Flood inundation of up to **5-10 feet** deep in West Pittston
- **Water Street Bridge** possibly affected by flood waters
- Confidence in this reasonable worst case scenario is **low** - depends on rainfall upstream



WABC-TV

Dec 20, 2023

NWS Flood Inundation Map

Flooding in Dec, 2023 along the Passaic River in northern New Jersey



NWS FIM

