

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.



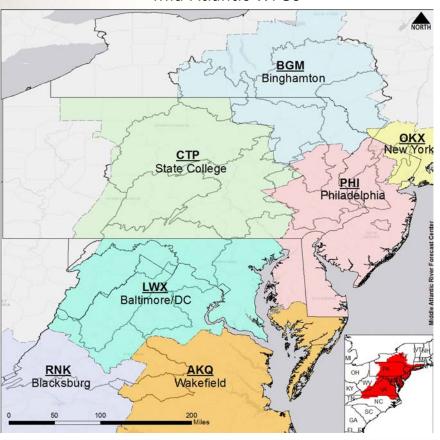
MARFC Basins and WFOs

Provide service to 7 different Weather Forecast Office

Mid-Atlantic River Basins

North Branch Susquehanna Chemung Delaware Upper Main Stem Susquehanna West Branch Susquehanna Lehigh Lower Main Stem Juniata Susquehanna Schuylkill Potomac Rappahannock James Appomattox

Mid-Atlantic WFOs

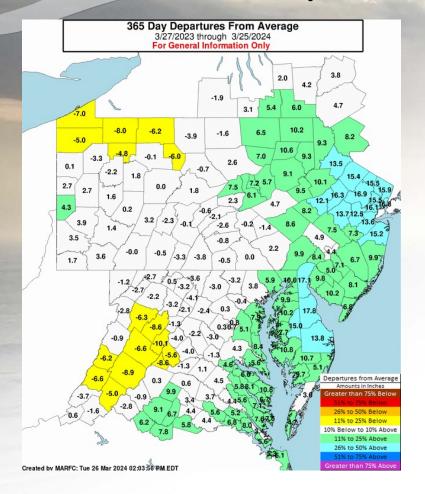


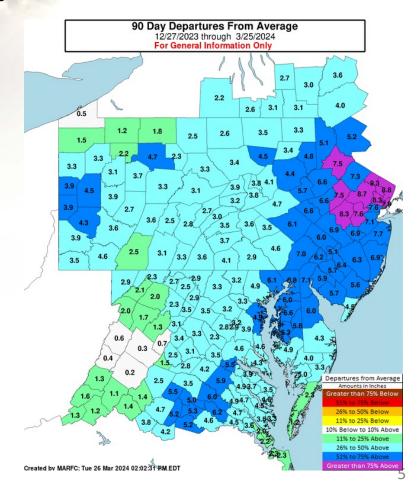
Why do we care about hydrology and flooding?

- 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.

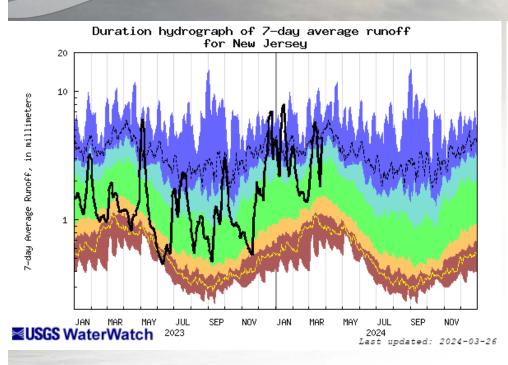


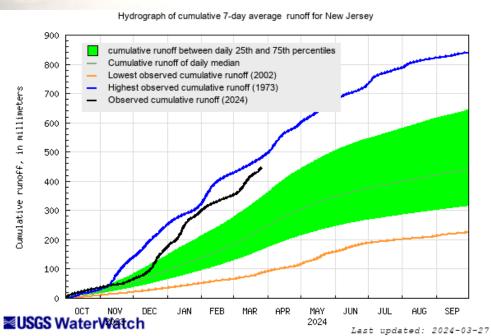
Precipitation Departures



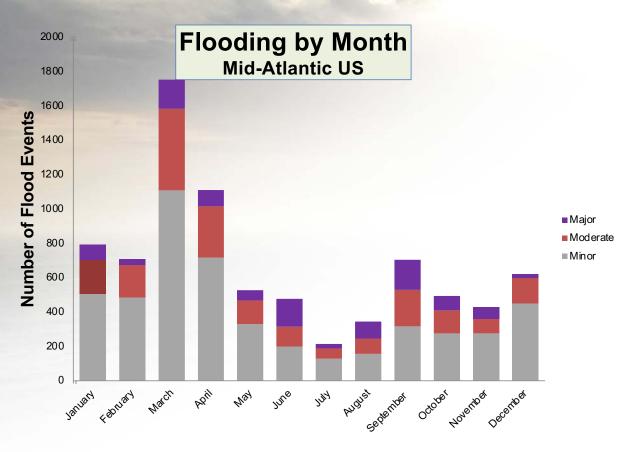


New Jersey Runoff

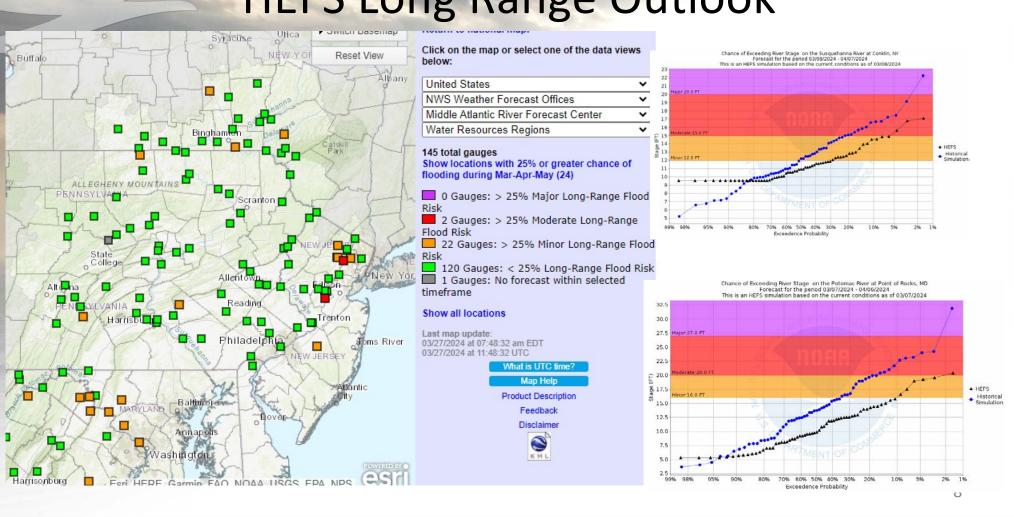




Flooding Can Happen Any Time

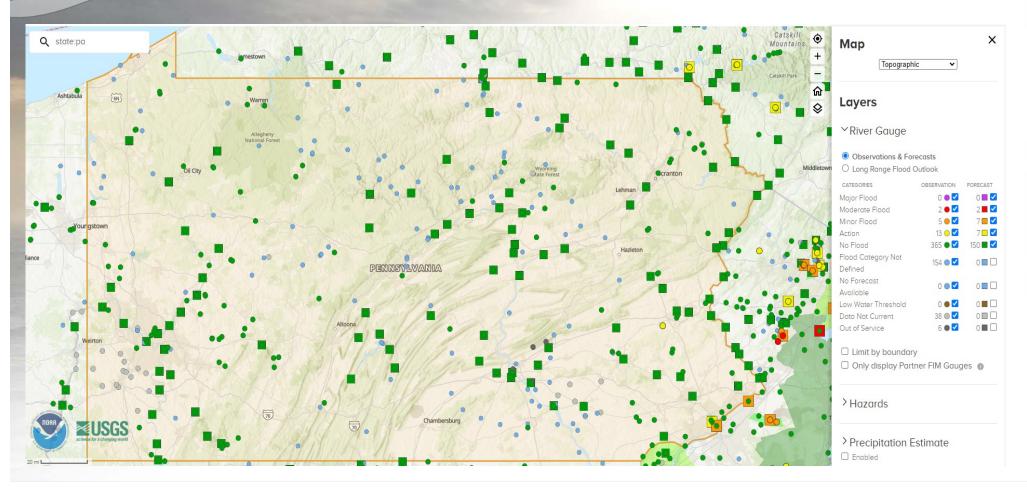


HEFS Long Range Outlook



National Water Prediction Service – water.noaa.gov

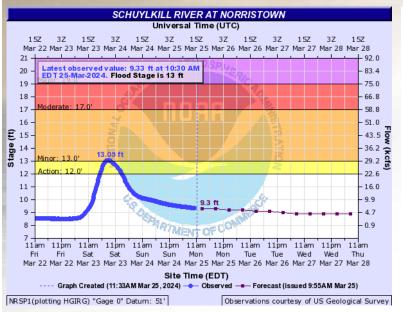
A new and improved service to replace the aging AHPS



National Water Prediction Service

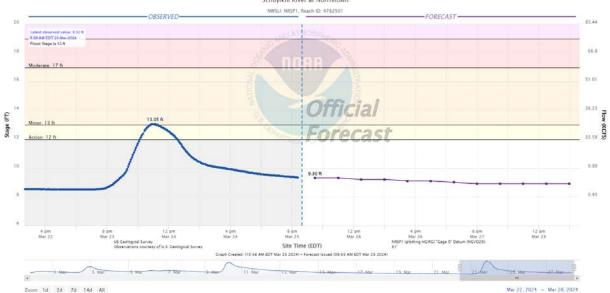


Schuylkill River at Norristown, PA

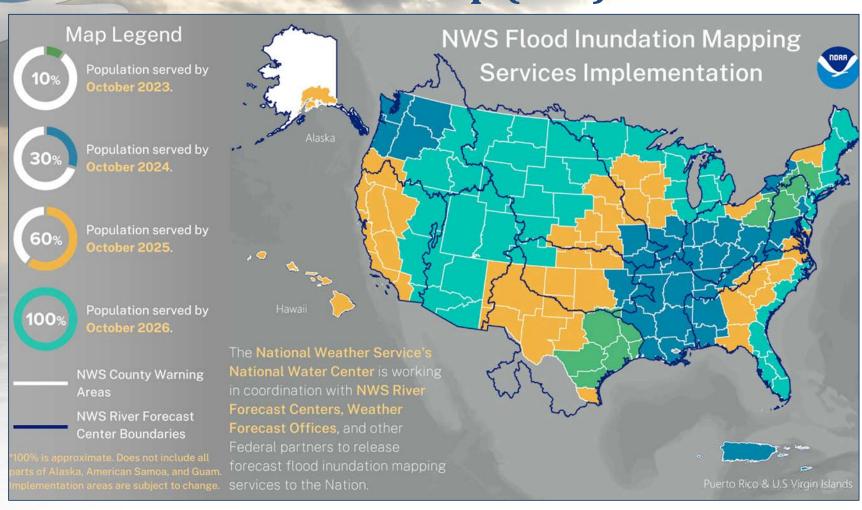


NWPS (New)

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

