



Mid-Atlantic Winter/Spring Flood Outlook & Review

Rob Shedd

Service Coordination Hydrologist
Mid-Atlantic River Forecast Center
State College PA

Agenda

Current Conditions

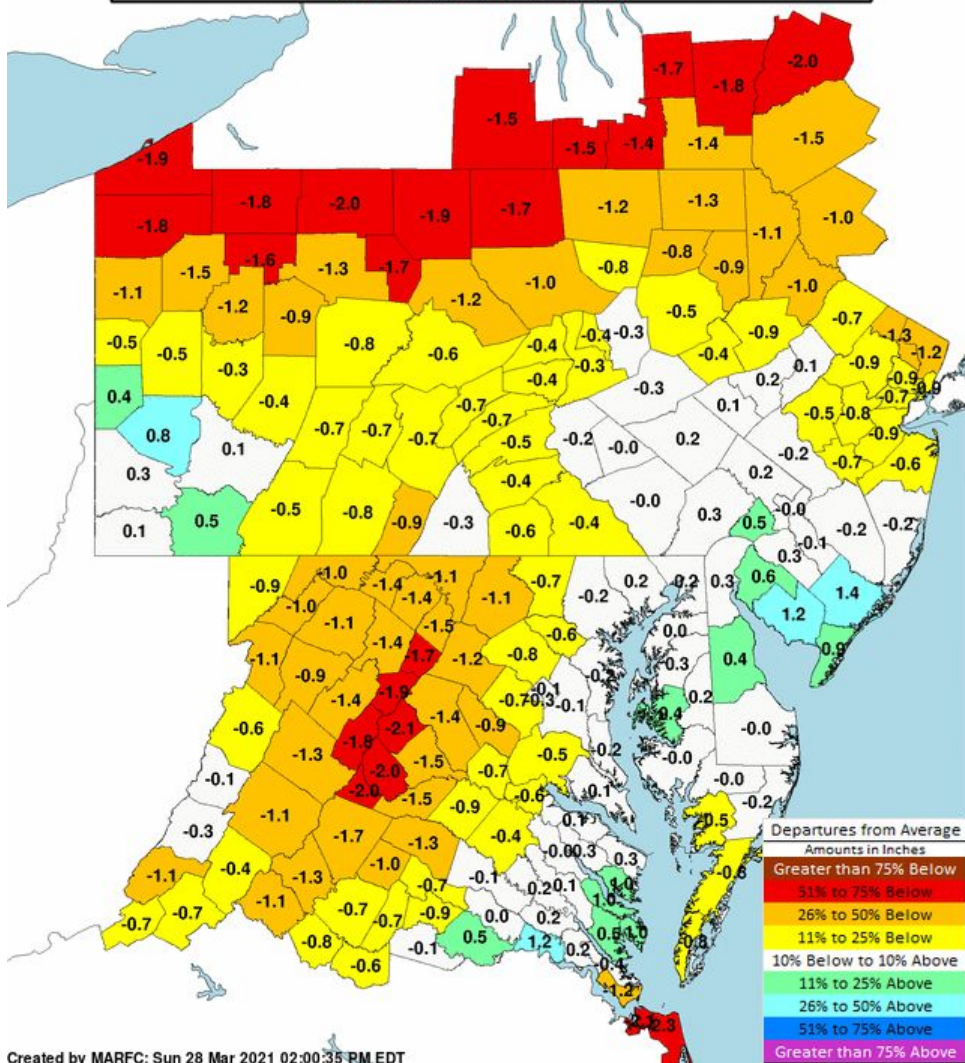
What's Happened

Flood Climatology

30 Day Departures From Average

2/26/2021 through 3/27/2021

For General Information Only

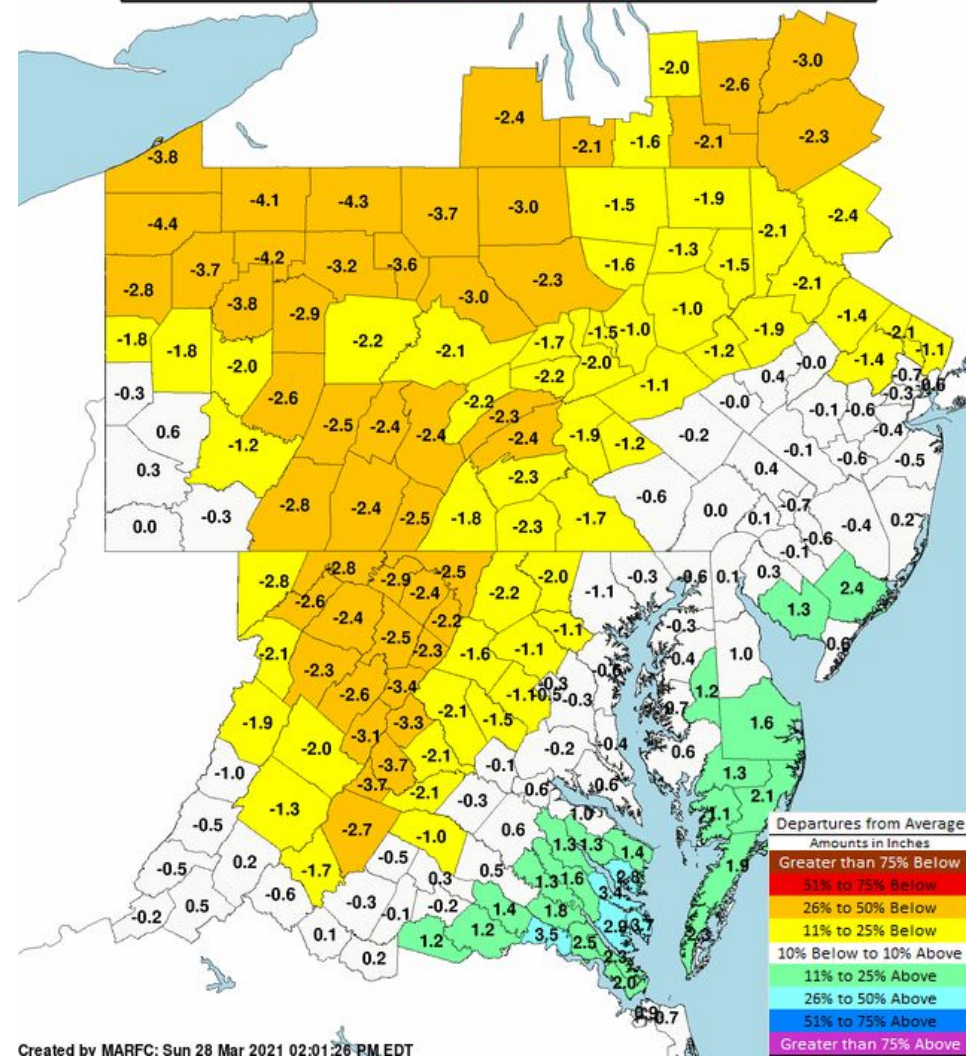


Created by MARFC: Sun 28 Mar 2021 02:00:35 PM EDT

90 Day Departures From Average

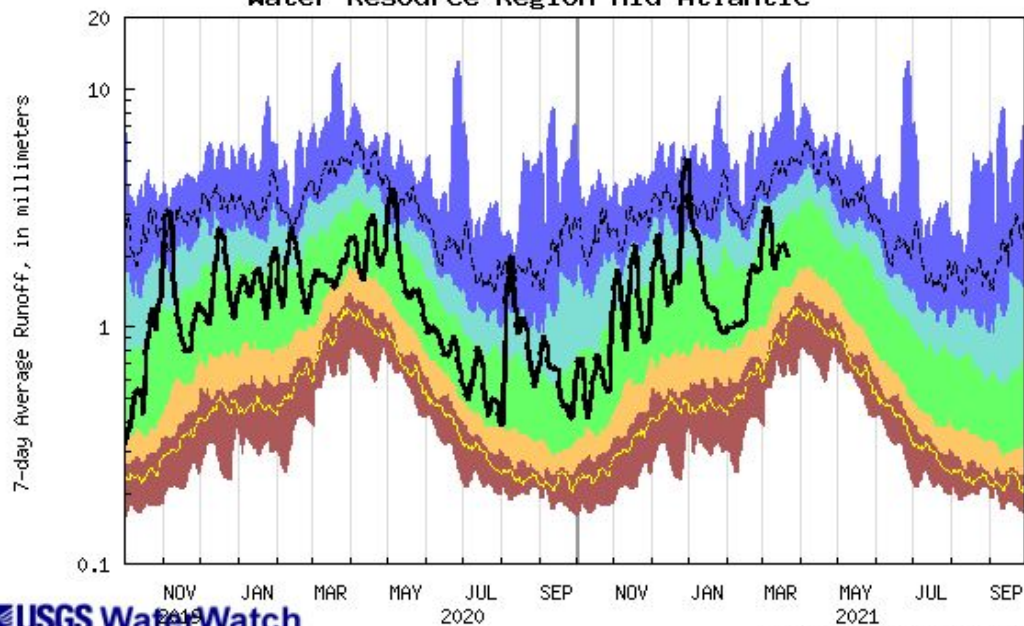
12/28/2020 through 3/27/2021

For General Information Only



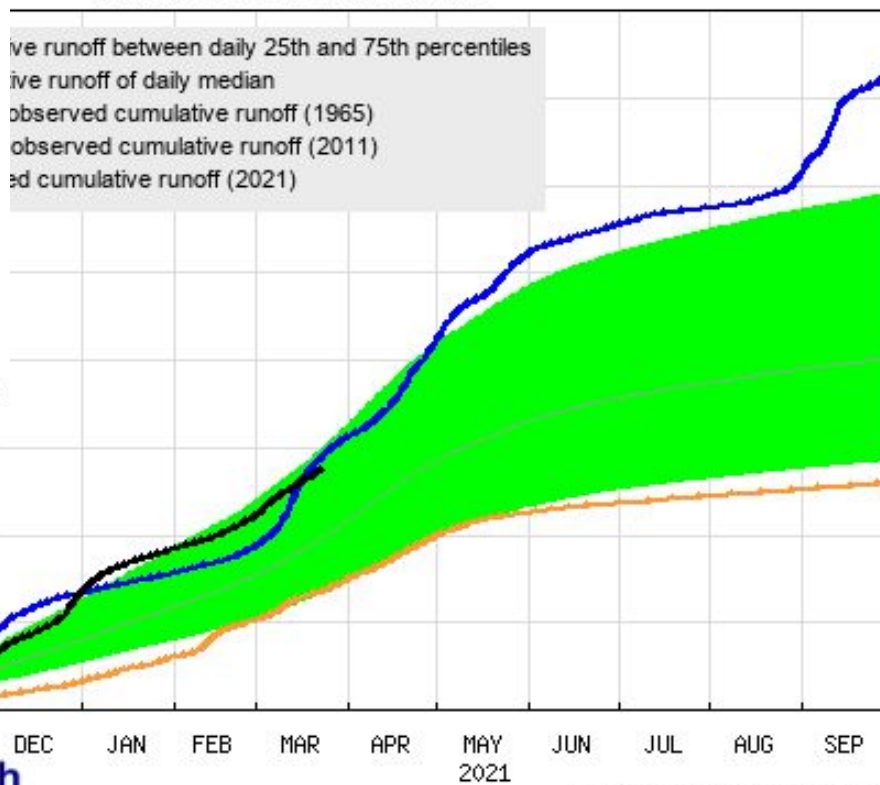
Created by MARFC: Sun 28 Mar 2021 02:01:26 PM EDT

Duration hydrograph of 7-day average runoff for Water Resource Region Mid Atlantic



USGS WaterWatch

Hydrograph of cumulative 7-day average runoff for Water Resource Region Mid Atlantic

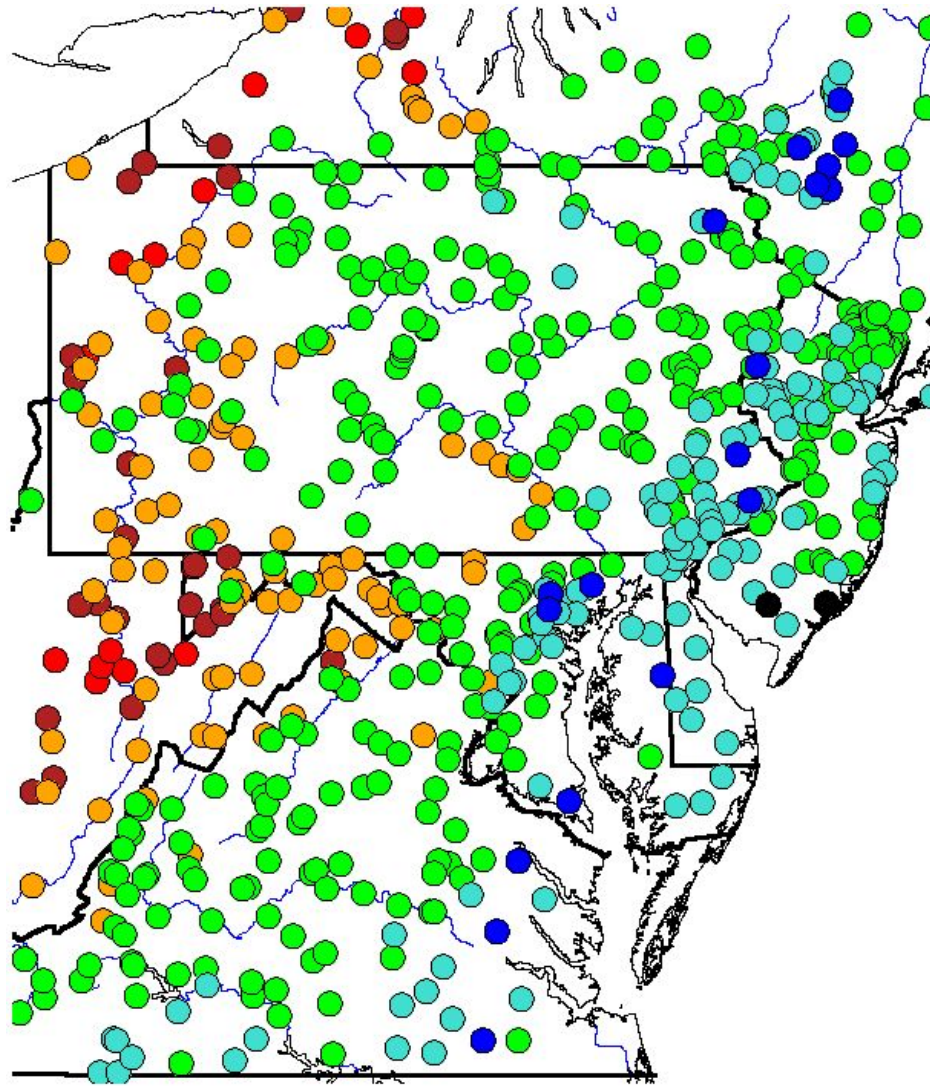


25th and 75th percentiles
 Median runoff of daily
 observed cumulative runoff (1965)
 observed cumulative runoff (2011)
 observed cumulative runoff (2021)

Last updated: 2021-03-24

USGS WaterWatch

Last updated: 2021-03-24



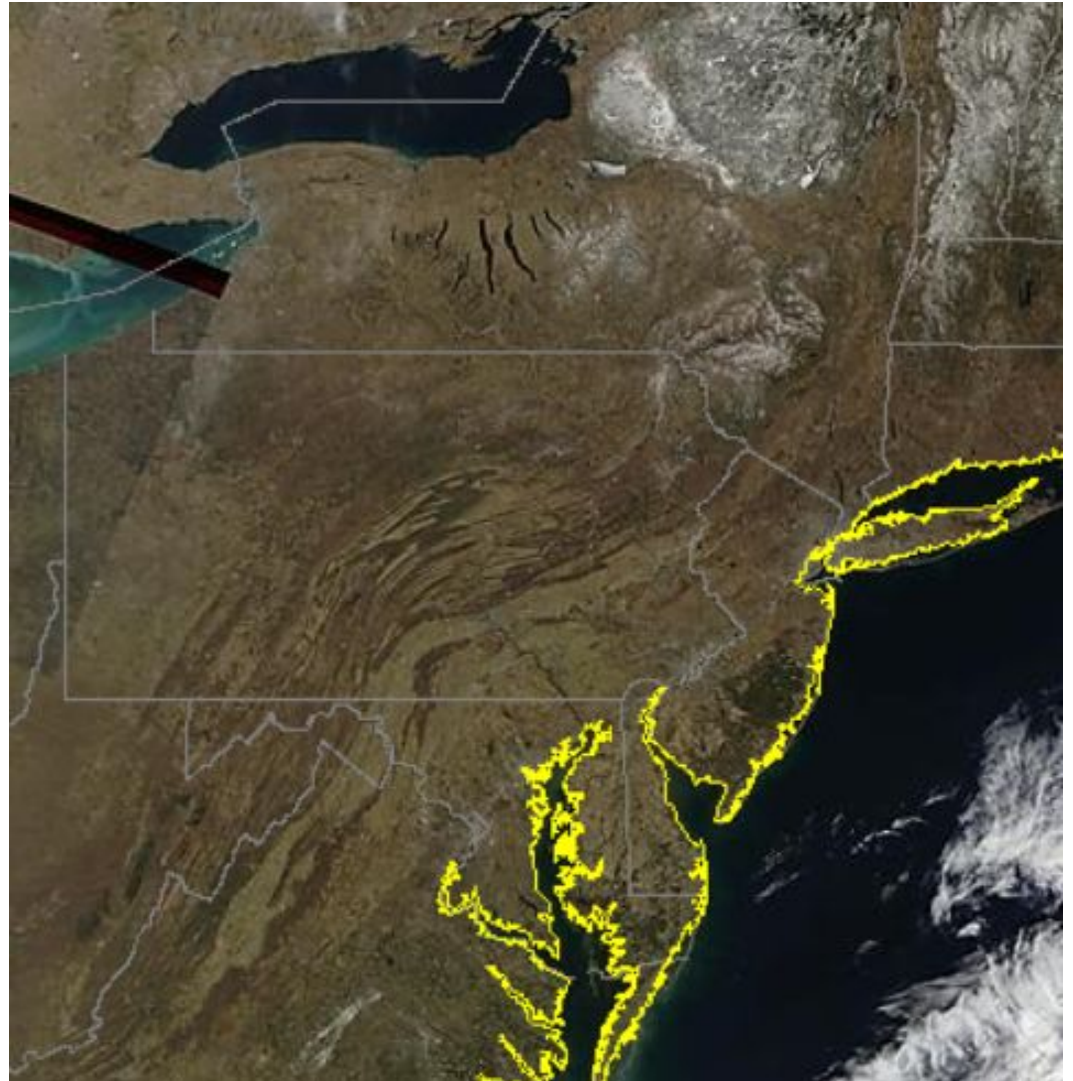
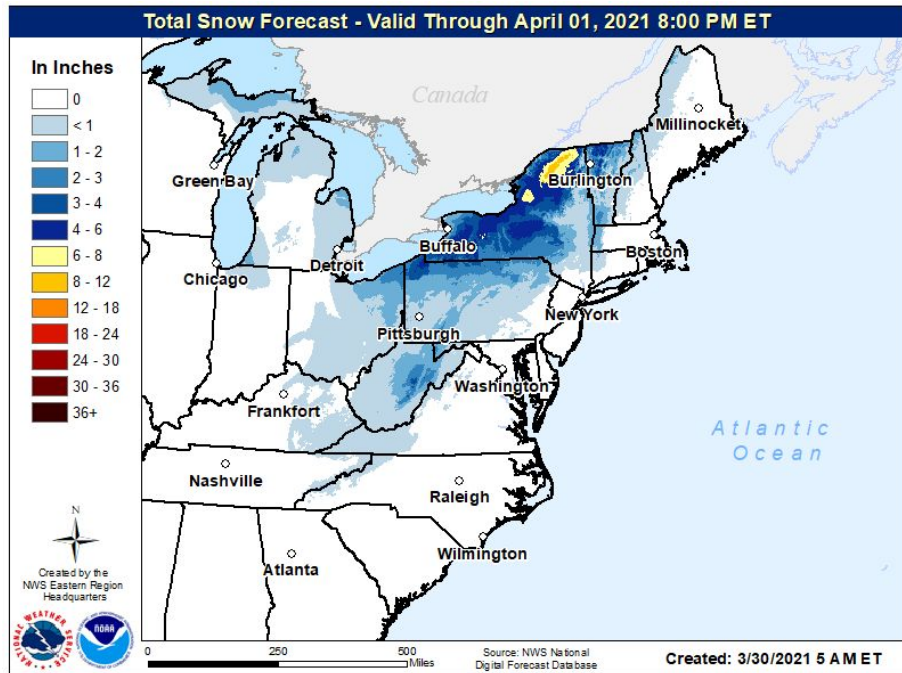
USGS Streamflow 7 Day Average

March 29, 2021

- High
- > 90th percentile
- 76-90th percentile
- 25-75th percentile
- 10-24th percentile
- < 10th percentile
- Low

Produced by
NWS Middle Atlantic River Forecast Center
based on data from
United States Geological Survey

Satellite Imagery from March 22



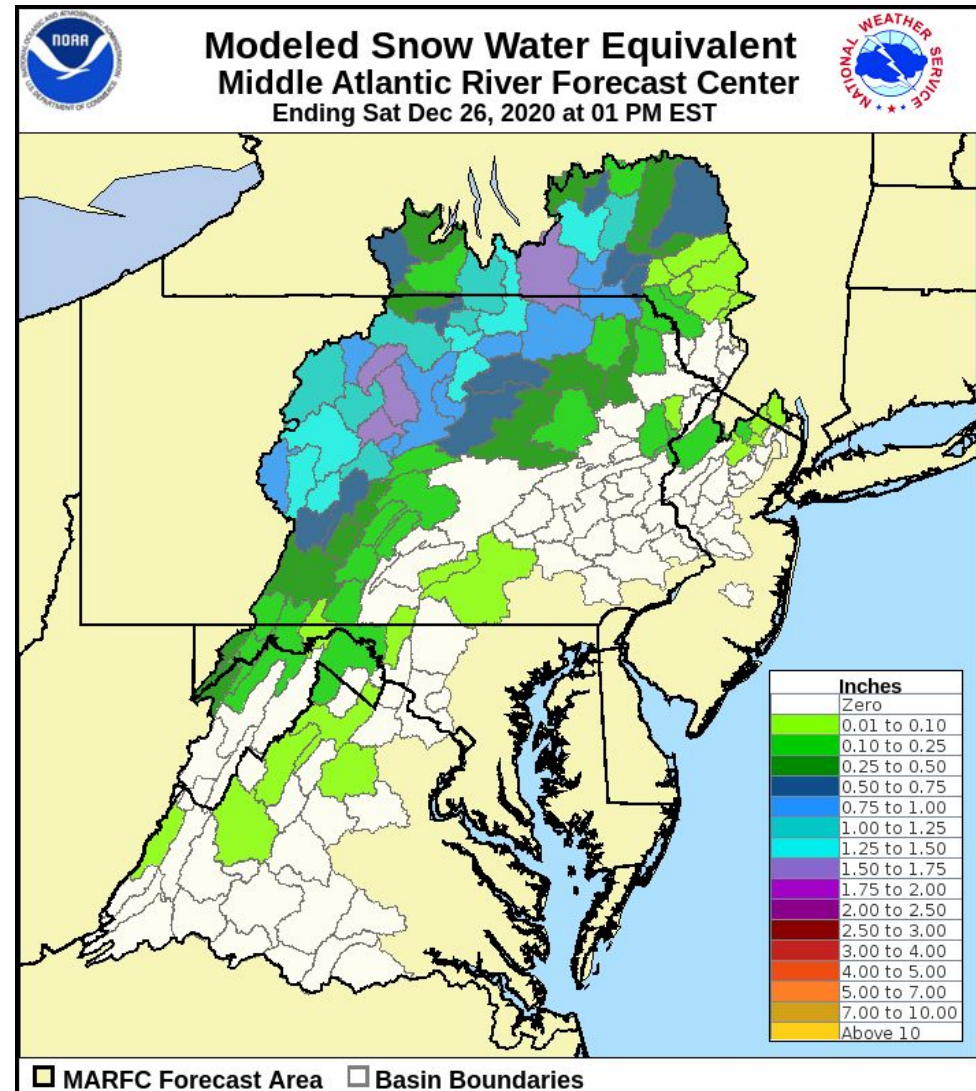
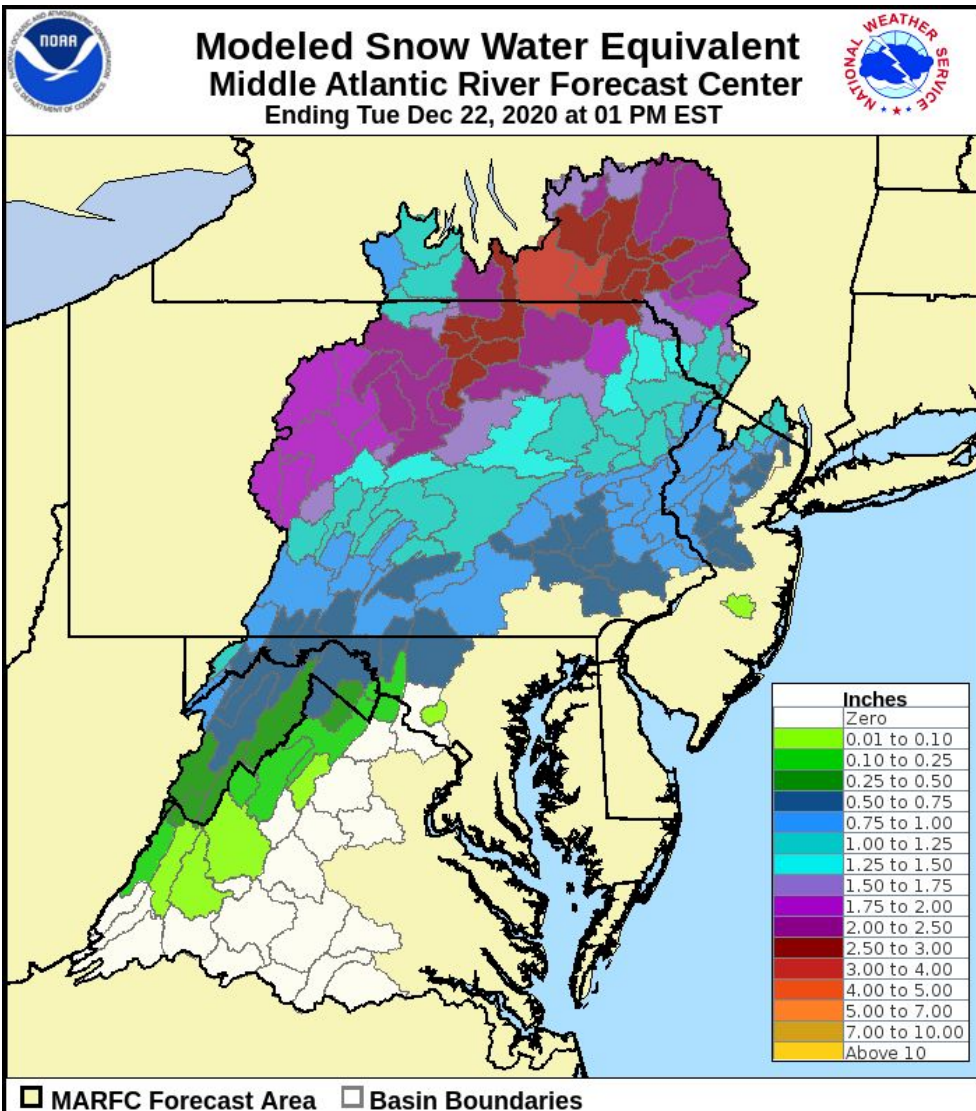
Bottom Line

Spring Snowmelt Flooding is not a concern in the Mid-Atlantic

Chance of some snow this week and some 1+ inch rains mainly in Virginia

No immediate concerns but some small stream rises later this week

A Look Back ... December 2020

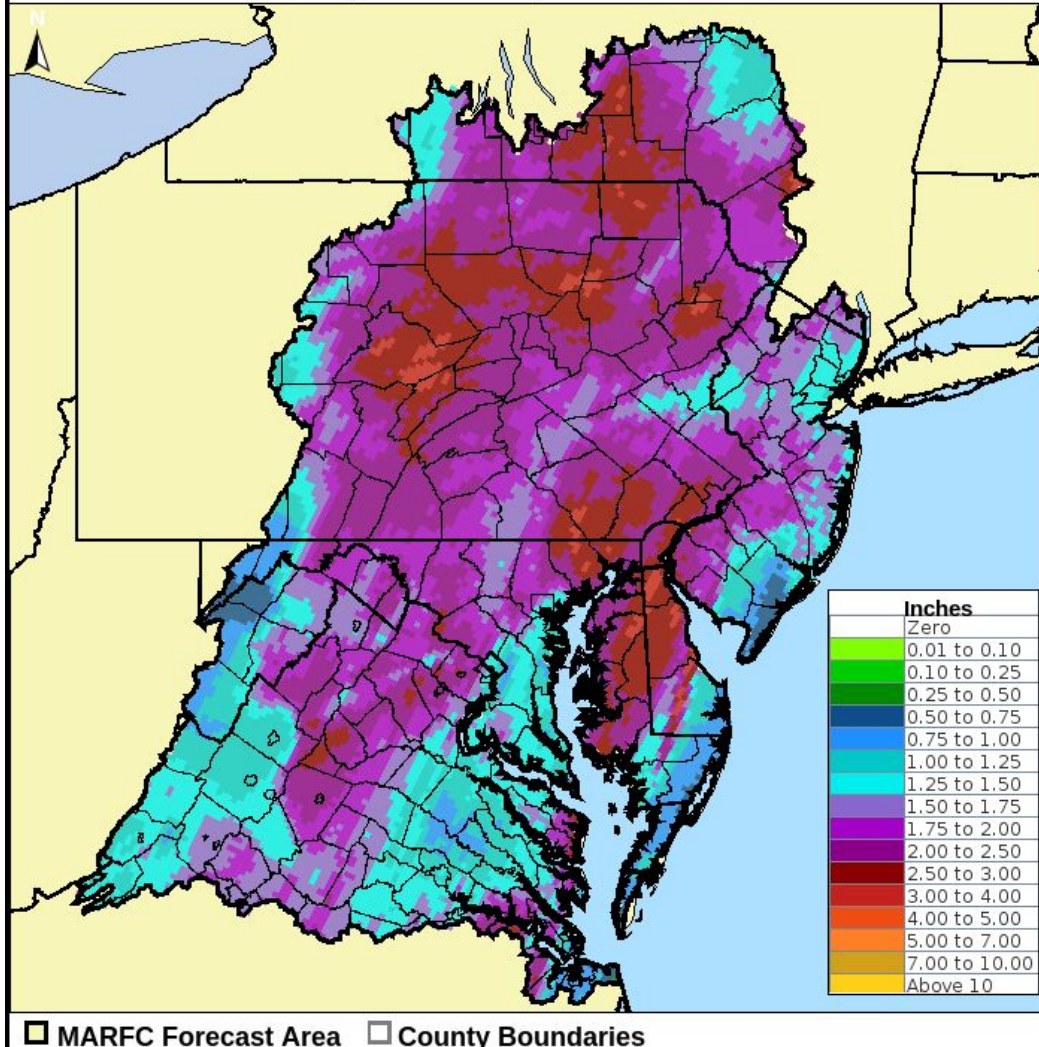


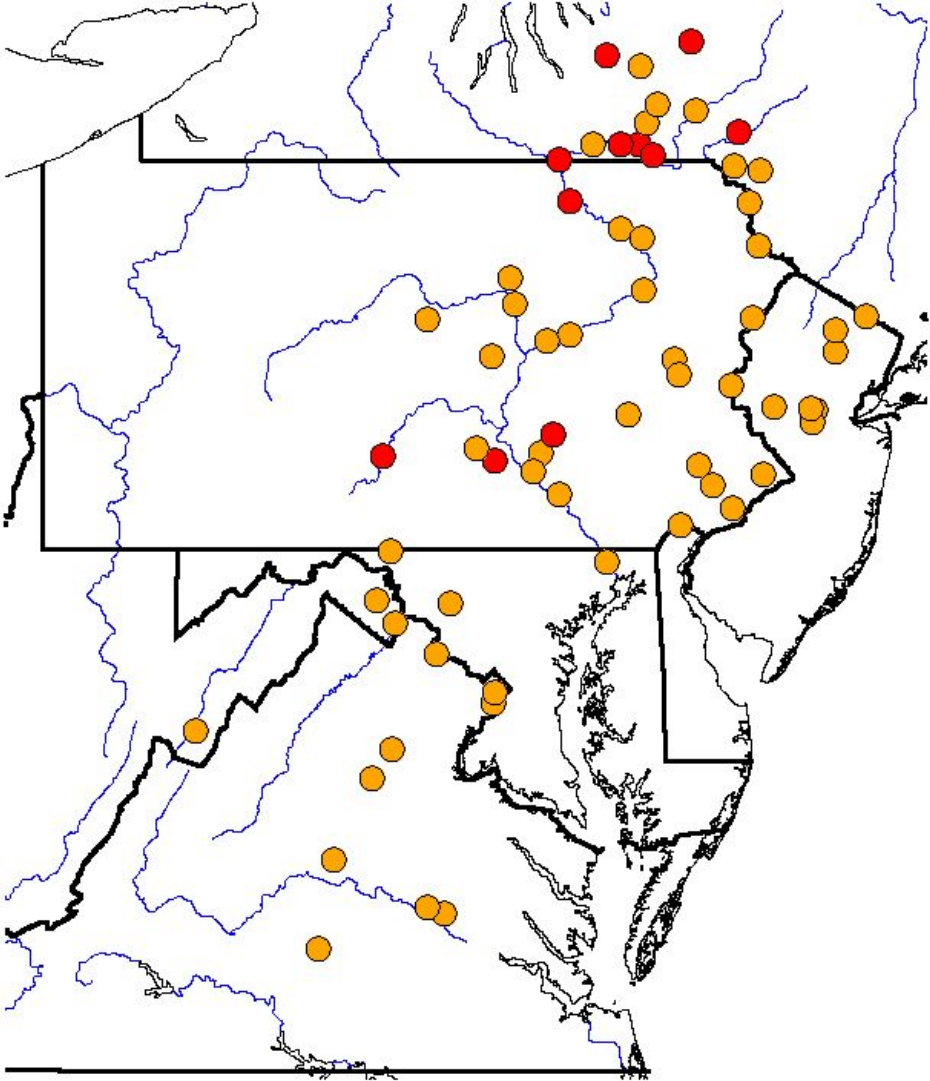


72 hr Estimated Precipitation

Middle Atlantic River Forecast Center

Ending on Fri Dec 25, 2020 at 11 AM EST





**Mid-Atlantic
Flooding
from 2020-12-22
to 2020-12-28**

- Minor Flood
- Moderate Flood
- Major Flood

Mid-Atlantic Flood Climatology

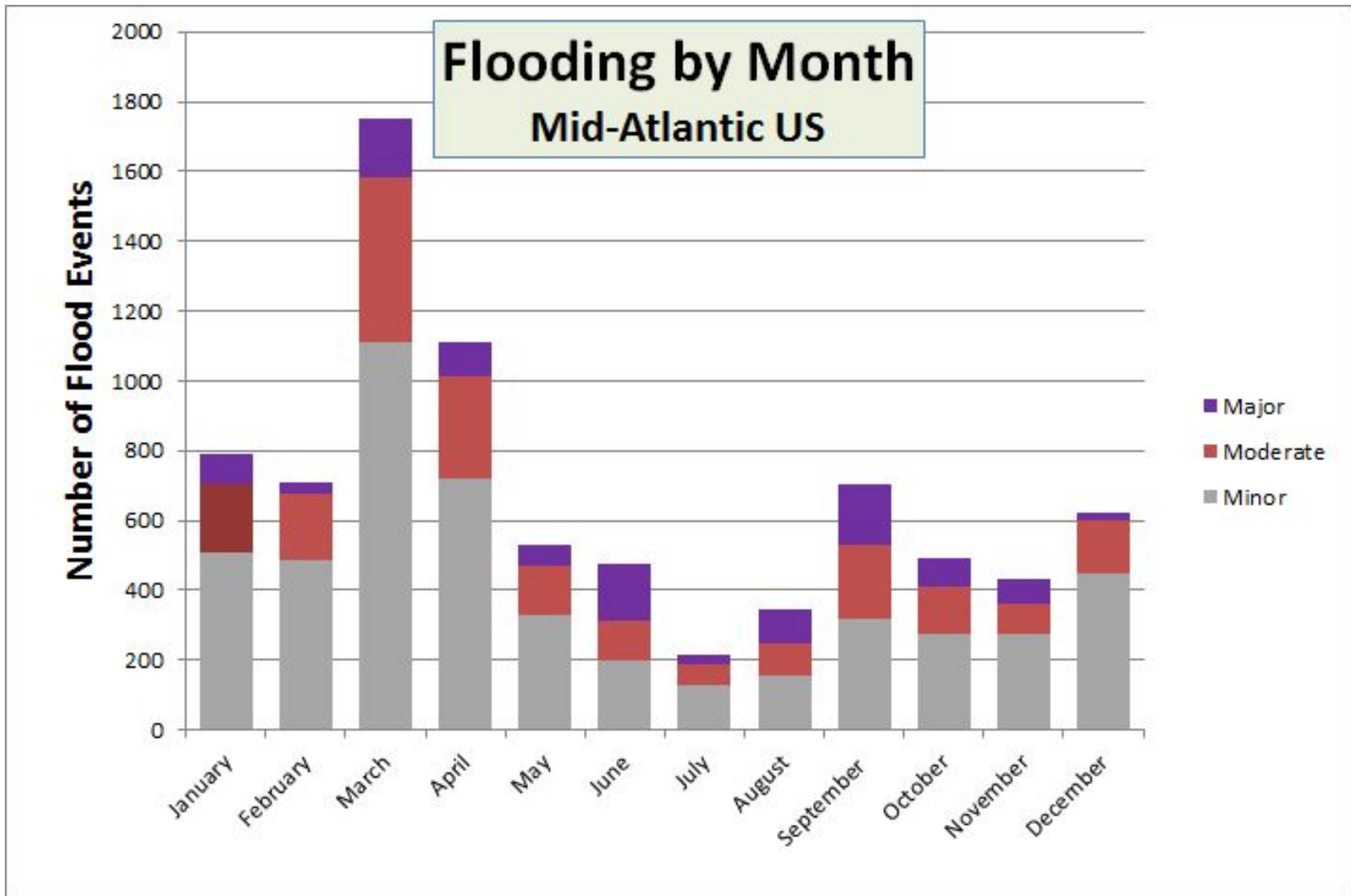
Flood Climatology Information

Middle Atlantic RFC
River Forecast Center

[Weather.gov](#) > [Middle Atlantic RFC](#) > Flood Climatology Information

[River Observations and Forecasts](#) [Weather Observations and Forecasts](#) [Water Supply](#) [Climate and History](#) [Seasonal Interest](#) [Additional Info](#)

- [Flood Event Summaries](#)
- [Flood Event List](#)
- [Flood Frequency](#)
- [Flood of Record](#)
- [Floods by Category](#)
- [Floods by Month](#)
- [Floods by Year](#)
- [Height above Flood Stage Occurrences by one foot intervals](#)
- [Historical Floods by Individual Forecast Points](#)
- [Qualification Codes for Peak Flow Data](#)
- [Top 20 Flood Information](#)
- [Tropical System Floods](#)
- [Daily Weather Maps and Other Information](#)



A Few Notes about Mid-Atlantic Flooding

- Very rare to get snowmelt-only flood
- Generally rain-on-snow with 1-2 inches of rain and high temps of 50+
 - Strong winds help result in more rapid snowmelt
- Nice orderly melt with highs in the 40s and lows below freezing
- Springtime rain
 - 2-4 inches of rain -> minor flooding
 - 4-6 inches of rain or back-to-back events -> moderate flooding



Thank You



Robert.Shedd@noaa.gov

<https://www.weather.gov/marfc>

@NWSMARFC (Facebook/Twitter)