



Mid-Atlantic Spring Flood Outlook

Rob Shedd NWS Mid-Atlantic River Forecast Center State College, PA

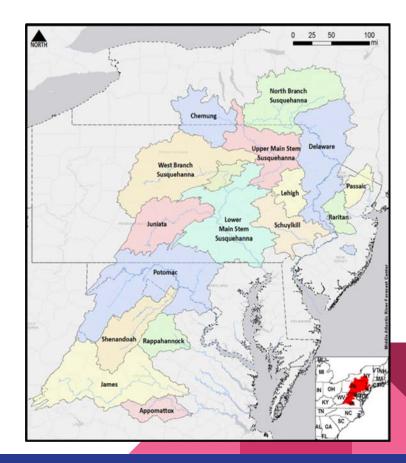
Middle Atlantic River Forecast Center

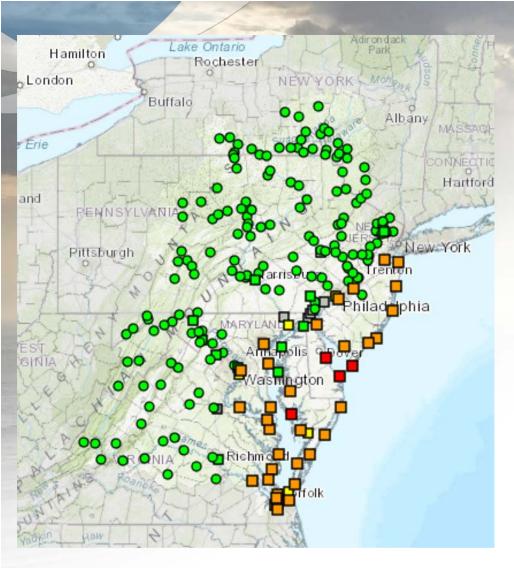
Approximately 175 forecast locations

87,000 square miles

River Systems include

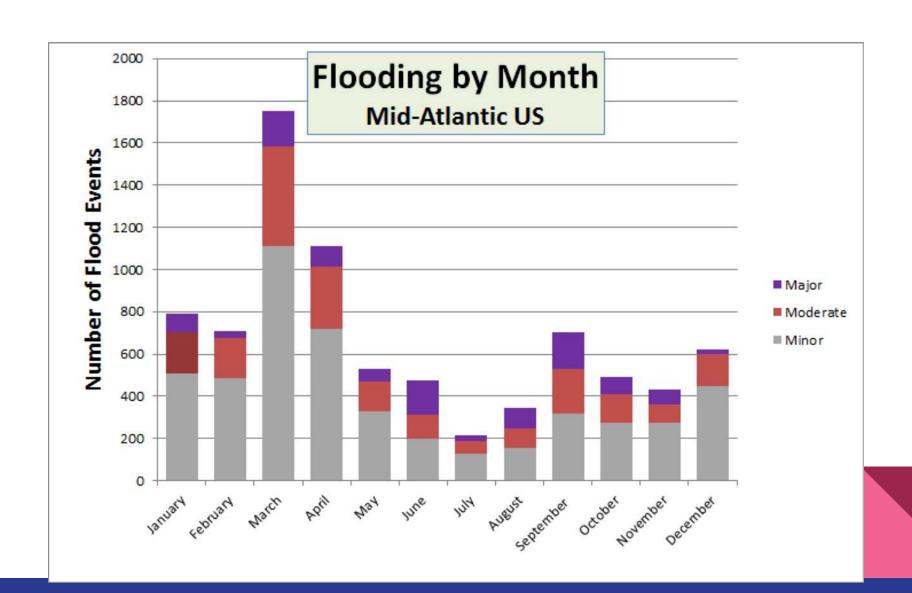
- Susquehanna
- Delaware
- Potomac
- James
- Passaic/Raritan

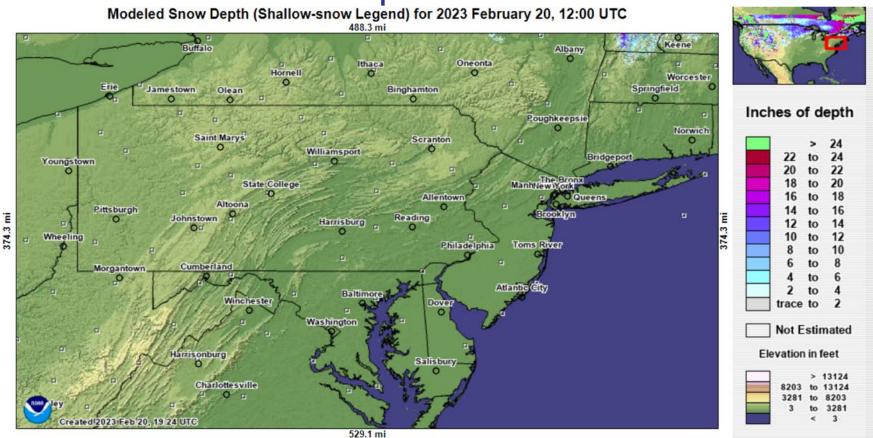


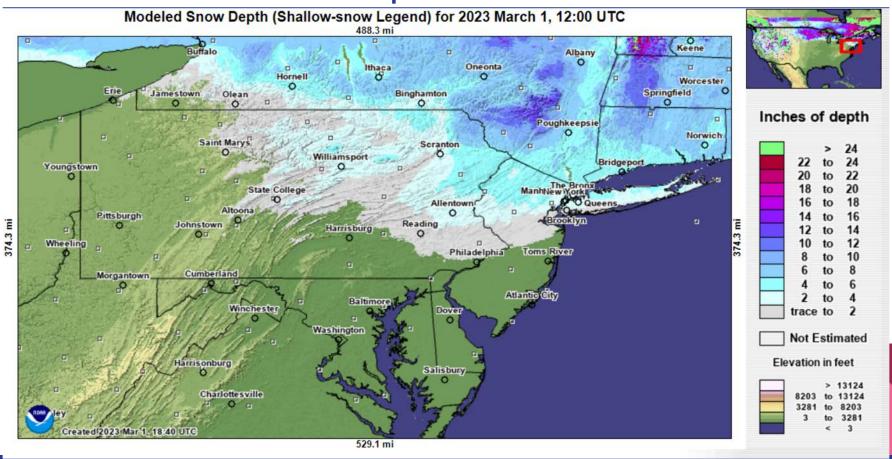


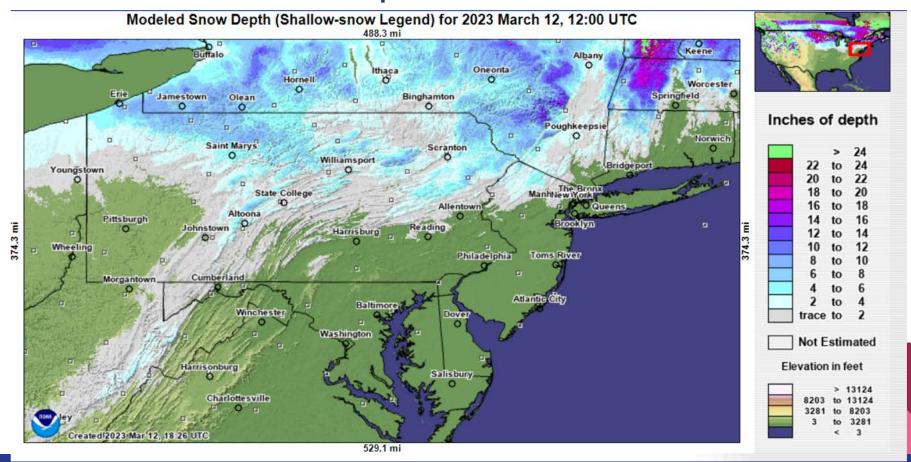
176 River Forecast Points

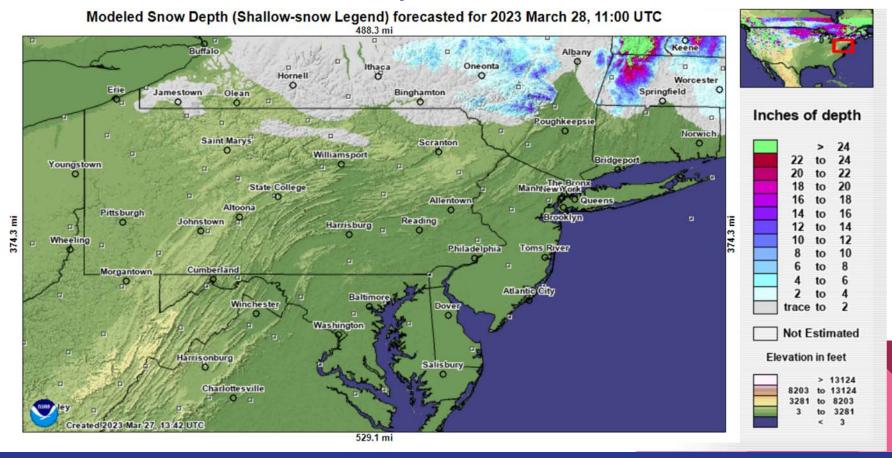
- All 72-hour forecasts
- All Issued Daily
- 5 Tidal (Estuary) ForecastPoints
 - Hourly forecast time-step







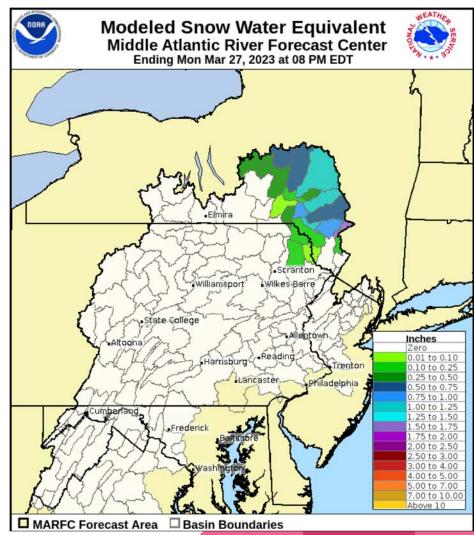




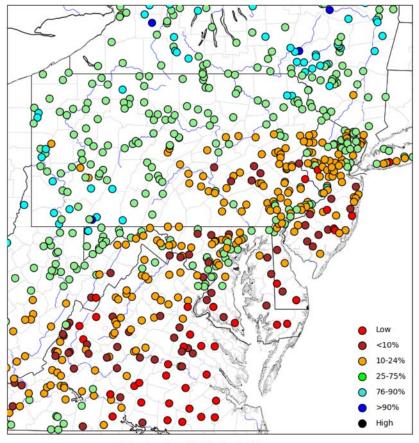
Current Snow State

1-2 inches of water in the snowpack in the highest elevations of the upper Susquehanna and Delaware





USGS 7-Day Average Streamflows
Mar 28, 2023 7:33 am



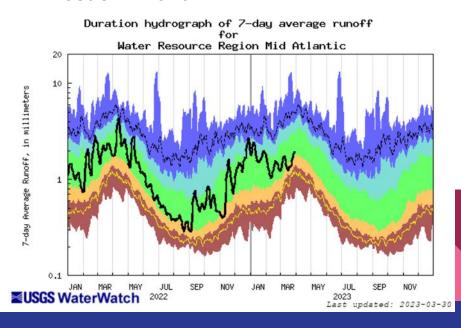
Data Courtesy US Geological Survey

NWS Mid-Atlantic River Forecast Center @NWSMARFC

River Status

Flows are below normal across Virginia, SE PA and Srn NJ

Flows are near or above normal across most of PA and NY

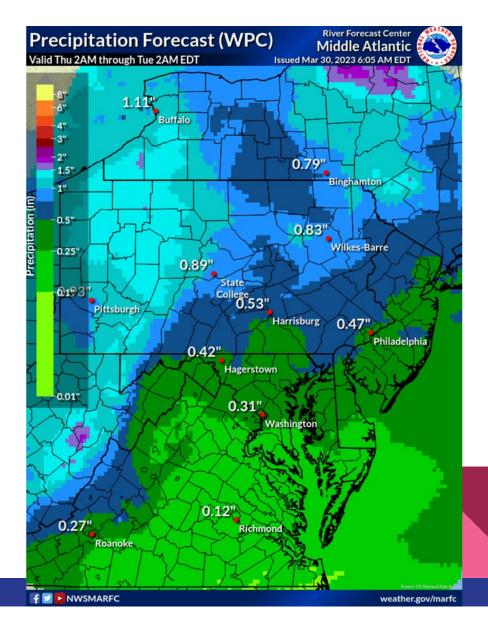


Precipitation Forecast

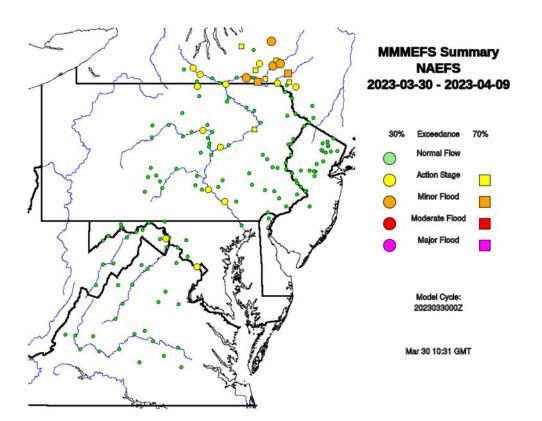
5-day forecast (Thu AM -> Tues AM)

Up to 1 inch of precipitation with heaviest amounts in Susquehanna

Mostly rain, but some light snow amounts



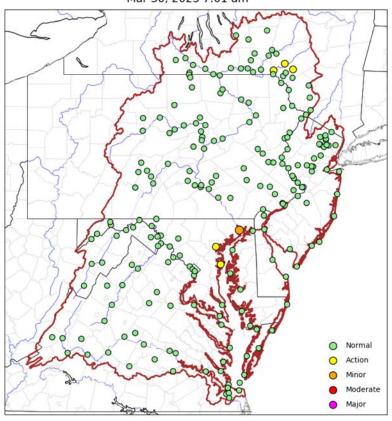
River Outlook





MARFC River Forecasts Mar 30, 2023 7:01 am

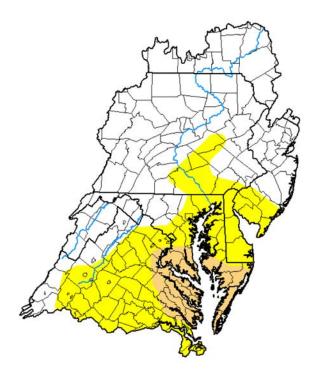




Latest Information: https://water.weather.gov NWS Mid-Atlantic River Forecast Center @NWSMARFC

Drought Status

U.S. Drought Monitor
Middle Atlantic RFC



March 28, 2023

(Released Thursday, Mar. 30, 2023) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	61.07	38.93	7.96	0.00	0.00	0.00
Last Week 03-21-2023	84.93	15.07	0.39	0.00	0.00	0.00
3 Month's Ago 12-27-2022	95.95	4.05	0.60	0.00	0.00	0.00
Start of Calendar Year 01-03-2023	95.95	4.05	0.39	0.00	0.00	0.00
Start of Water Year 09-27-2022	59.67	40.33	12.36	2.04	0.00	0.00
One Year Ago 03-29-2022	41.10	58.90	4.78	0.00	0.00	0.00



The Drought Monitor focuses on broad-scale conditions.

Local conditions may vary. For more information on the

Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author

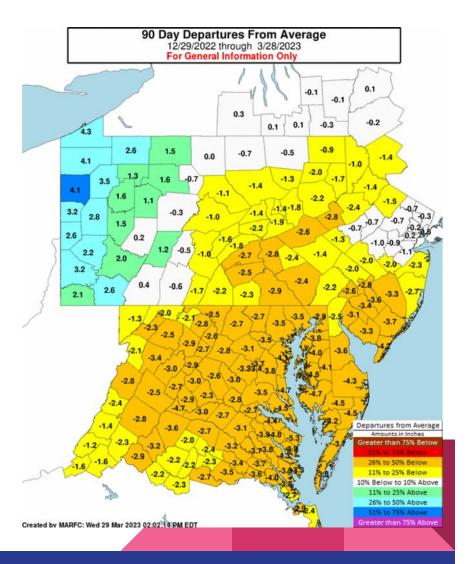
Curtis Riganti National Drought Mitigation Center











Winter/Spring Outlooks

https://www.weather.gov/marfc/WinterSpring Flood Outlook

Outlooks updated every 2 weeks

Next outlook will be updated TODAY

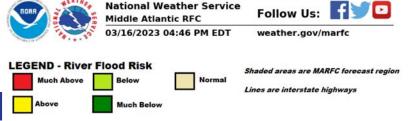
Remember - some minor flooding this time of year is a normal occurrence

Being able to project more than a week or 2 in advance is difficult in this part of country

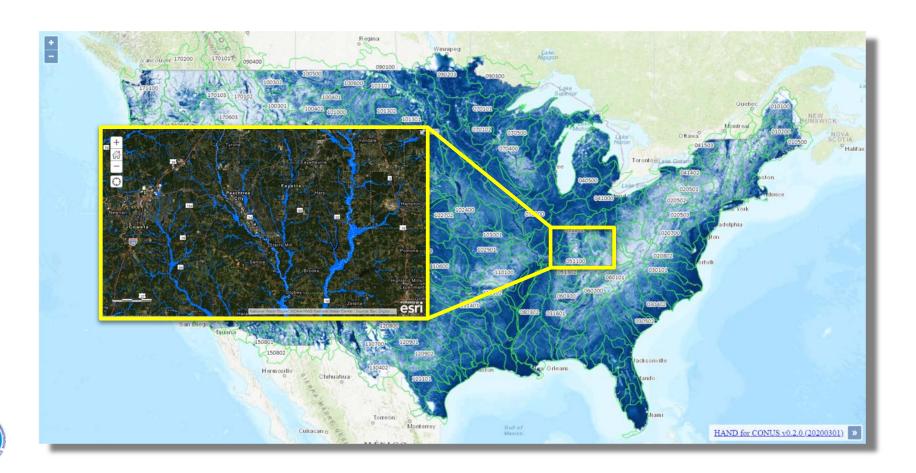
Spring Flood Potential Outlook

Valid: 03/16/2023 08:00 AM - 03/30/2023 08:00 AM EDT





Continental Scale Flood Inundation Mapping (FIM)



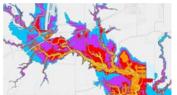


NWS FIM Capabilities

Static

Dynamic









AHPS FIM Libraries (AHPS FIM) - Static maps at ~ 200 RFC forecast locations. Maps derived from engineering scale hydraulic models.

< 1,000 miles

~ 30,000 miles

~ 100k miles

~ 3.4M miles

NWS Flood Categorical HAND FIM Libraries (CatFIM) - Static maps at ~3,000 RFC forecast locations. Maps derived from 10-m Height Above Nearest Drainage (HAND) solution.

Forecast River Forecast Center Flood Maps (RFC 5-Day Max Forecast) - Dynamic maps downstream of ~ 3,600 RFC forecast locations. Maps derived from RFC forecast and 10-m Height Above Nearest Drainage (HAND) solution.

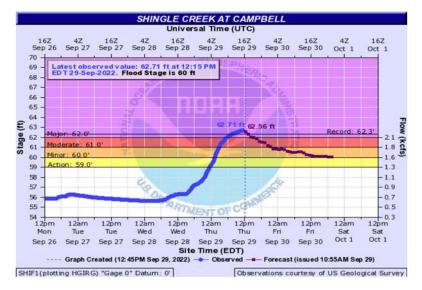
Forecast National Water Model Flood Maps (NWM 5-Day Max Forecast) - Dynamic maps along NHDPlus reach locations. Maps derived from NWM forecast and 10-m Height Above Nearest Drainage (HAND) solution.

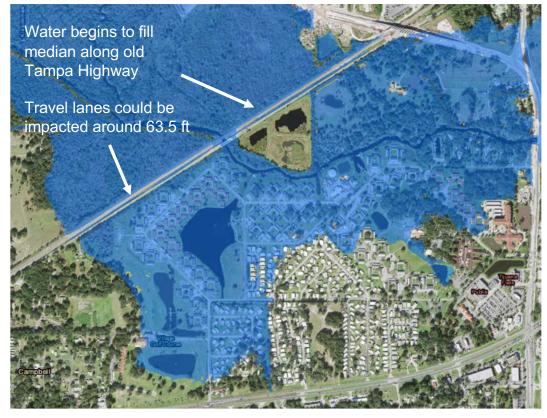


Interpreting a FIM

What is flooded?

How deep will the water be?







Phase 1 of NWS FIM Services Implementation

NWS will deliver FIM Services to 10% of the nation (portions of Texas and the

Northeast) beginning on October 1, 2023

