2019 Spring Flood Outlook for the Mid-Atlantic Region

March 28, 2019

NOAA Eastern Region Climate Services Monthly Webinar Series

NWS Middle Atlantic River Forecast Center (MARFC)

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Service Areas of the 13 NWS River Forecast Centers

MARFC Service Area
MARFC Service Area
Spring River Flood Potential Factors

- Existing River Flooding
- Recent Precipitation
  - Snow Conditions
  - River Ice
- Streamflow Conditions
- Soil Moisture Conditions
- Groundwater Conditions
- Reservoir Conditions
- Future Weather Conditions
One-Year Precipitation Departures

365 Day Departures From Average
For General Information Only

Created by MARFC: Wed 27 Mar 2019 02:02 AM EDT

Presentation Created
3/28/19 10:26 AM
30-Day Precipitation Departures

30 Day Departures From Average
2/25/2019 through 3/26/2019
For General Information Only

Created by MARFC: Wed 27 Mar 2019 02:00:58 PM EDT
Current Snow Conditions

- Much of the remaining snow on the ground within the MARFC Service Area is hydrologically insignificant.
- 1-2 inches (locally higher) of Snow Water Equivalent (SWE) remains in upper portions of the Delaware and Susquehanna River Basins in NY.
- Higher elevations and forested areas are holding snow better than river valleys and open areas.
Current River Ice Conditions

- Zero
- Zilch
- Nada
- Nothing
- You get the idea...it’s all gone
Current USGS Streamflow Conditions

Wednesday, March 27, 2019 14:30 ET

Approximate MARFC Service Area
Current Drought Conditions

Drought Severity Index by Division
Weekly Value for Period Ending Mar 23, 2019
Long Term Palmer

Approximate MARFC Service Area
Current Soil Moisture Conditions

Calculated Soil Moisture (mm)
MAR 26, 2019

Approximate MARFC Service Area
7-Day WPC Predicted Precipitation

Approximate MARFC Service Area
6-10 Day CPC Precipitation Outlook

Approximate MARFC Service Area
10-14 Day CPC Precipitation Outlook

Approximate MARFC Service Area
3-4 Week (Experimental) CPC Precipitation Outlook

Approximate MARFC Service Area
April CPC Precipitation Outlook

Approximate MARFC Service Area
April-June CPC Precipitation Outlook

Approximate MARFC Service Area
30-Day HEFS Simulations

Towanda, PA on the Susquehanna

- Major: 7.1 FT
- Moderate: 6.0 FT
- Minor: 4.6 FT

Trenton, NJ on the Delaware

- Major: 5.0 FT
- Moderate: 3.0 FT
- Minor: 1.0 FT

Little Falls, MD on the Potomac

- Major: 4.0 FT
- Moderate: 3.0 FT
- Minor: 1.0 FT

Richmond, VA on the James

- Major: 2.0 FT
- Moderate: 1.0 FT
- Minor: 0.5 FT
MARFC Contact Information

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March 26, 2019 MODIS Satellite Photo

Thank you, and have a wonderful, hopefully flood-free Spring!