



# Mid-Atlantic Flood Potential

Robert Shedd

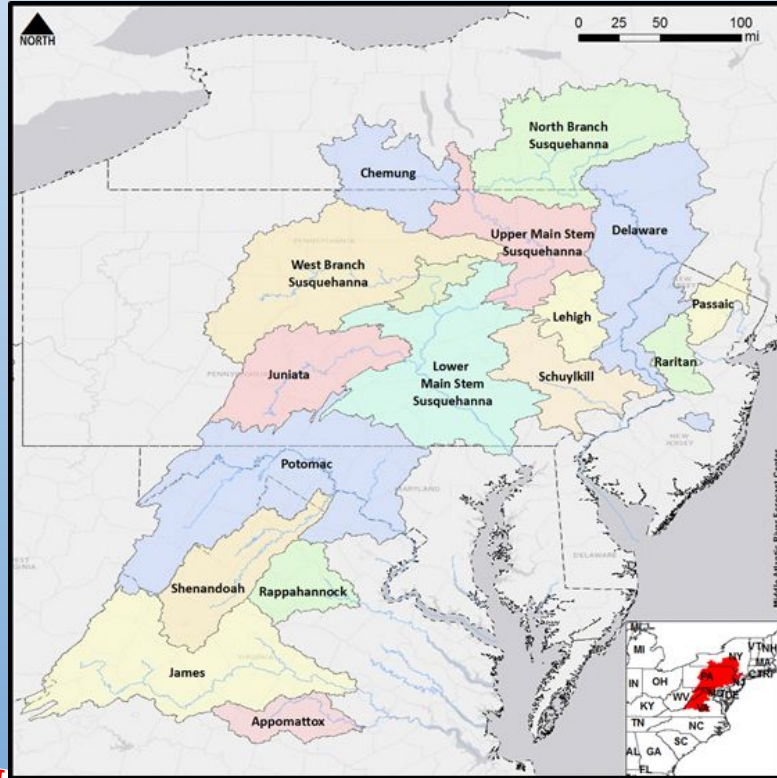
Service Coordination Hydrologist

NWS - Middle Atlantic River Forecast Center

State College, Pennsylvania

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# Middle Atlantic River Forecast Center

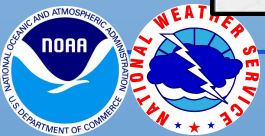


Approximately 175 forecast locations

87,000 square miles

River Systems include

- Susquehanna
- Delaware
- Potomac
- James

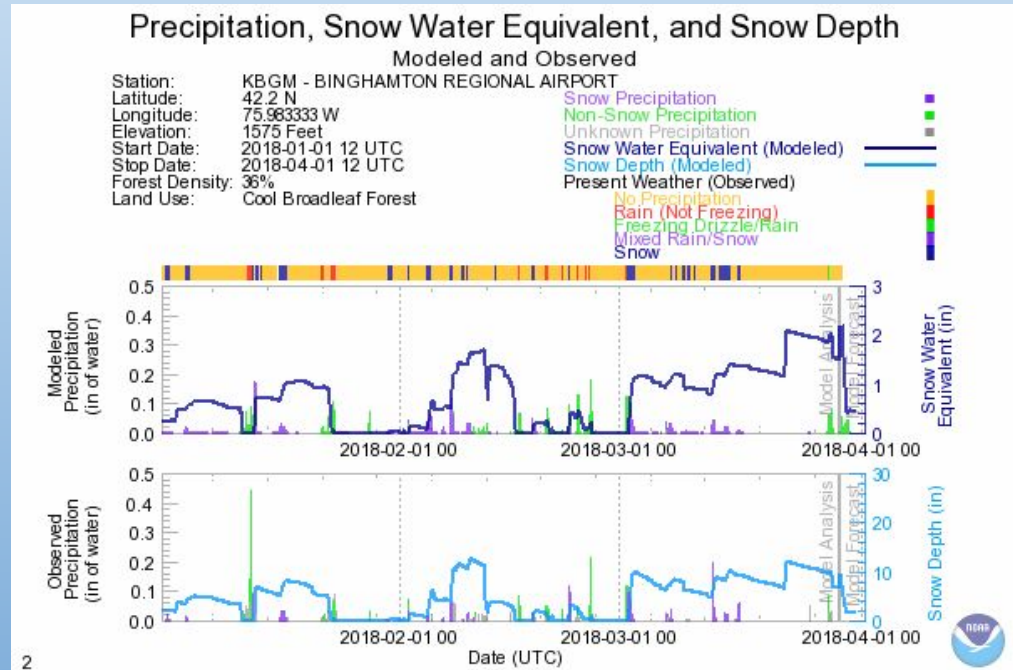


# Season - to - Date

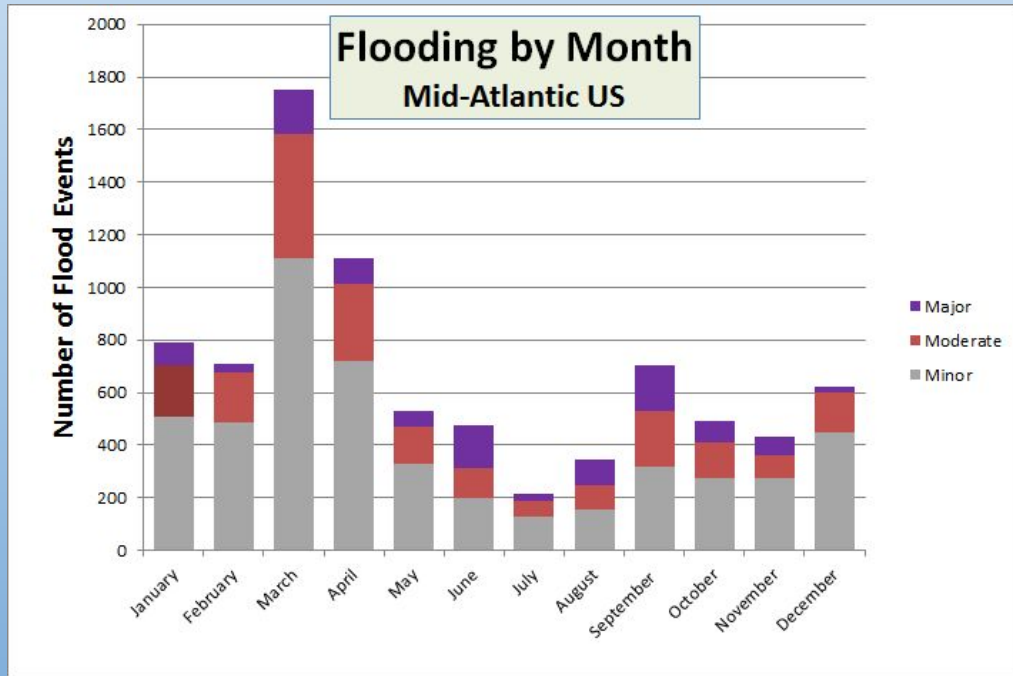
Several melt and accumulation periods

Significant ice jam flooding in January

Minor flooding in February primarily in New York and Virginia



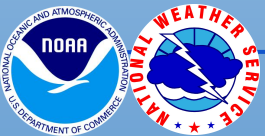
# Flood Climatology



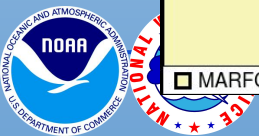
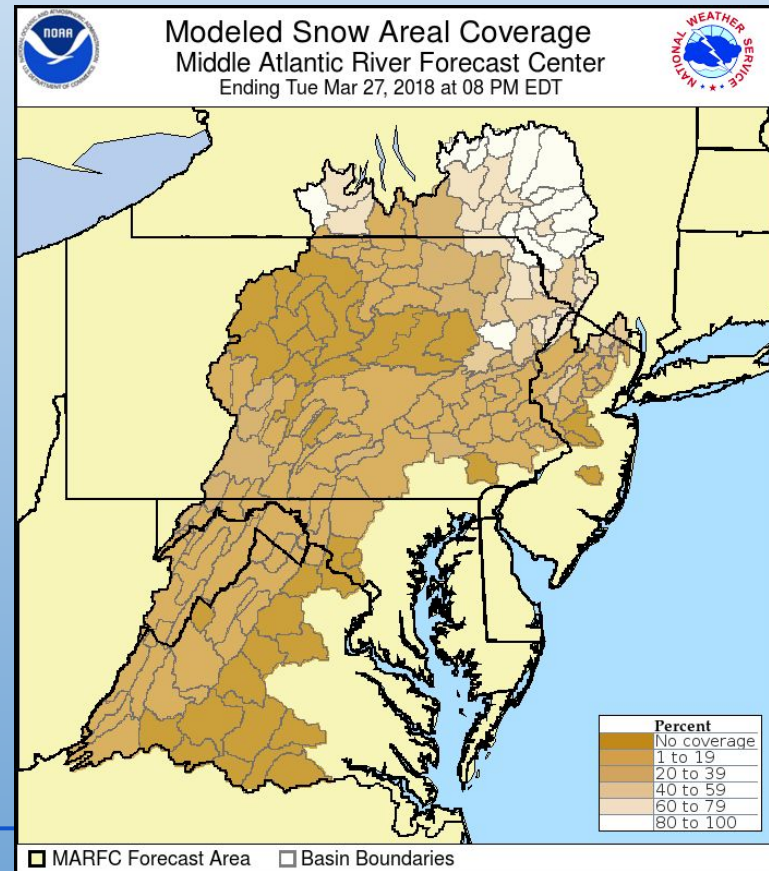
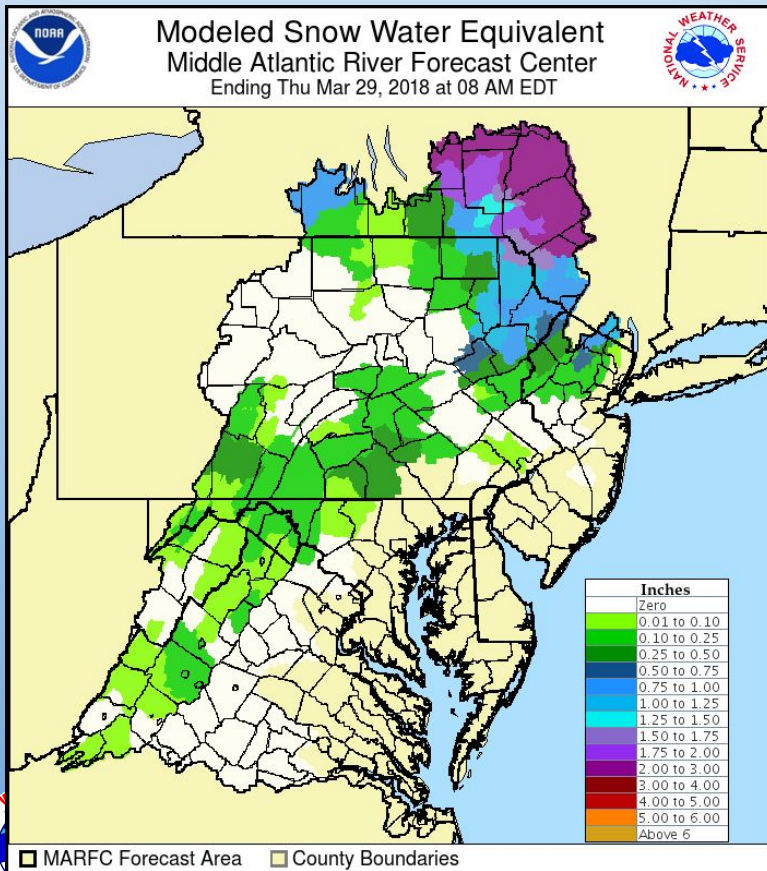
Flooding is possible any time of year

Most likely time is March/April  
spring runoff

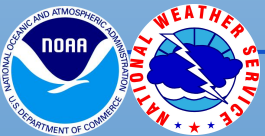
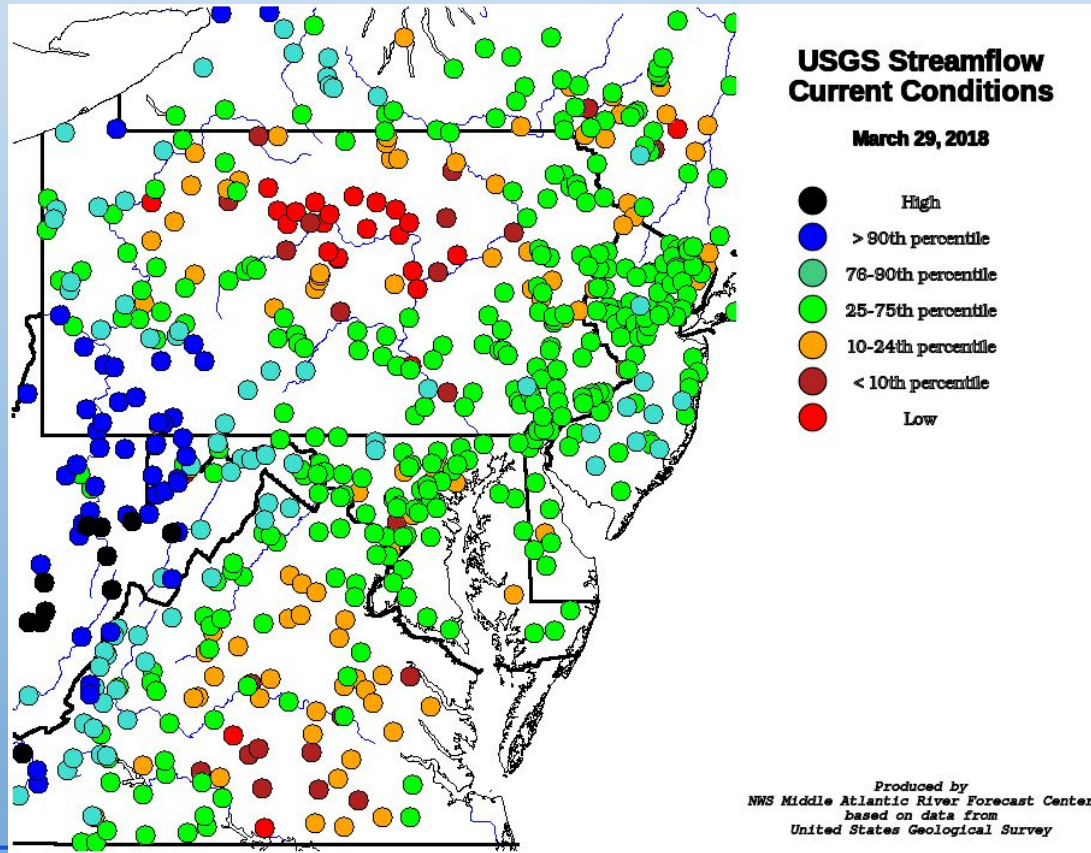
General scenario is 1-2 inches of  
rain on top of snow pack.  
Back-to-back rains result in more  
significant flooding



# Current Snowpack Conditions



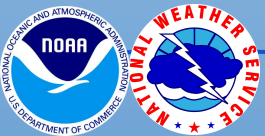
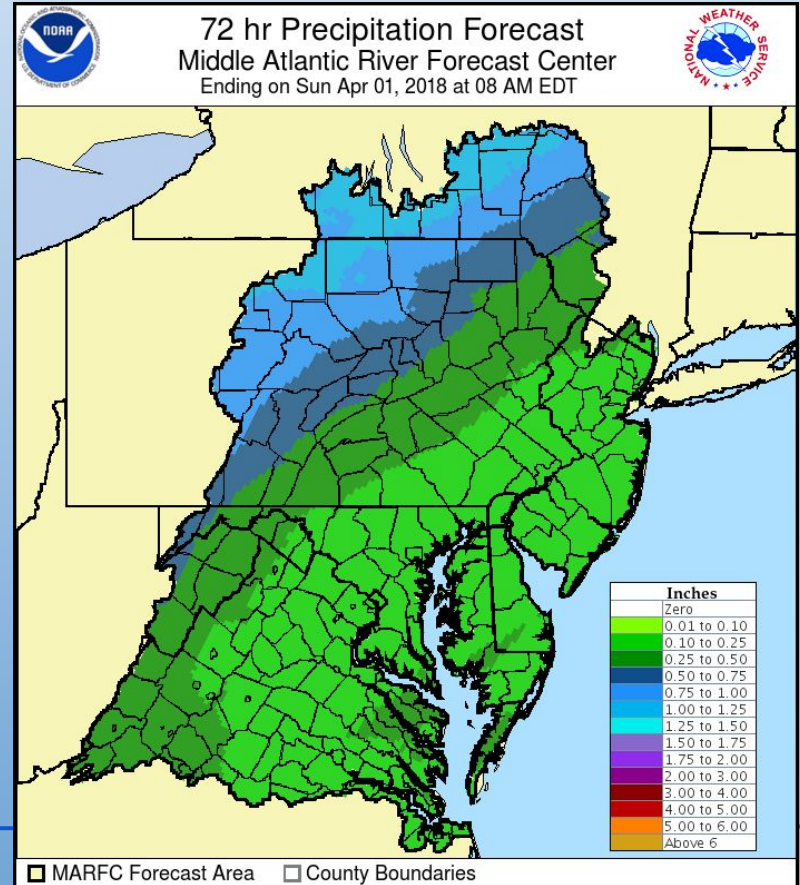
# Current Streamflow Conditions



# Shorter Term Rainfall

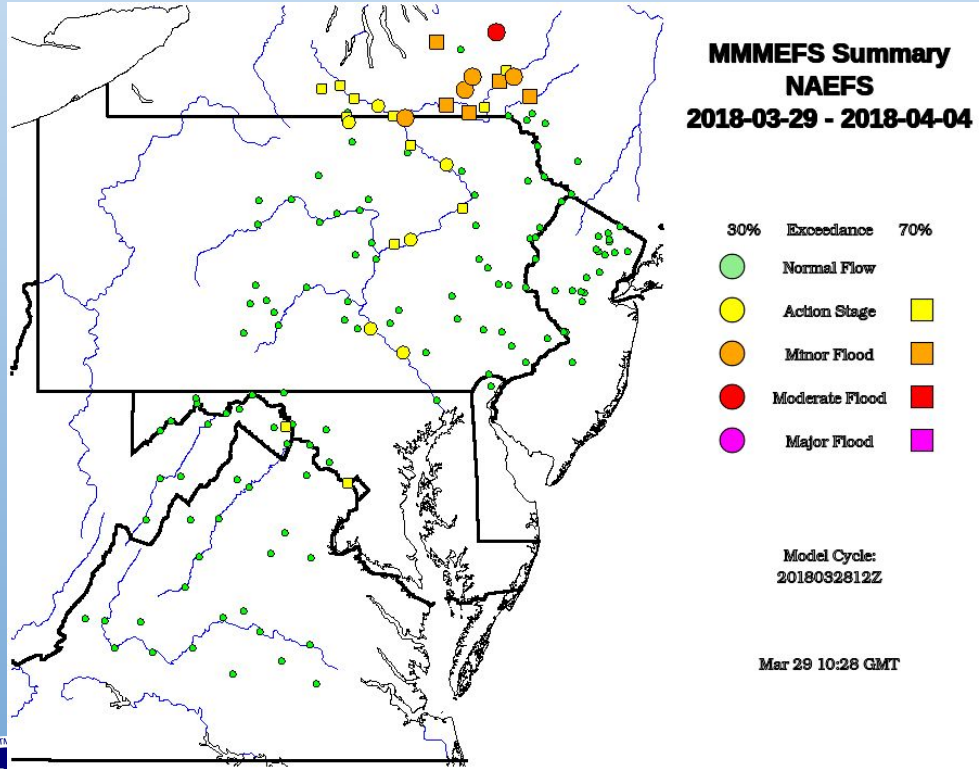
Up to about an inch of rain expected in the Susquehanna headwaters

Most of the rain will be between now and Friday morning



# MMEFS Outlook

<http://www.weather.gov/erh/mmefs>



Chance of minor flooding in  
Susquehanna and Delaware  
headwaters into this weekend

High water continuing down the  
mainstem Susquehanna into early  
next week



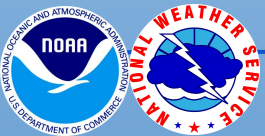
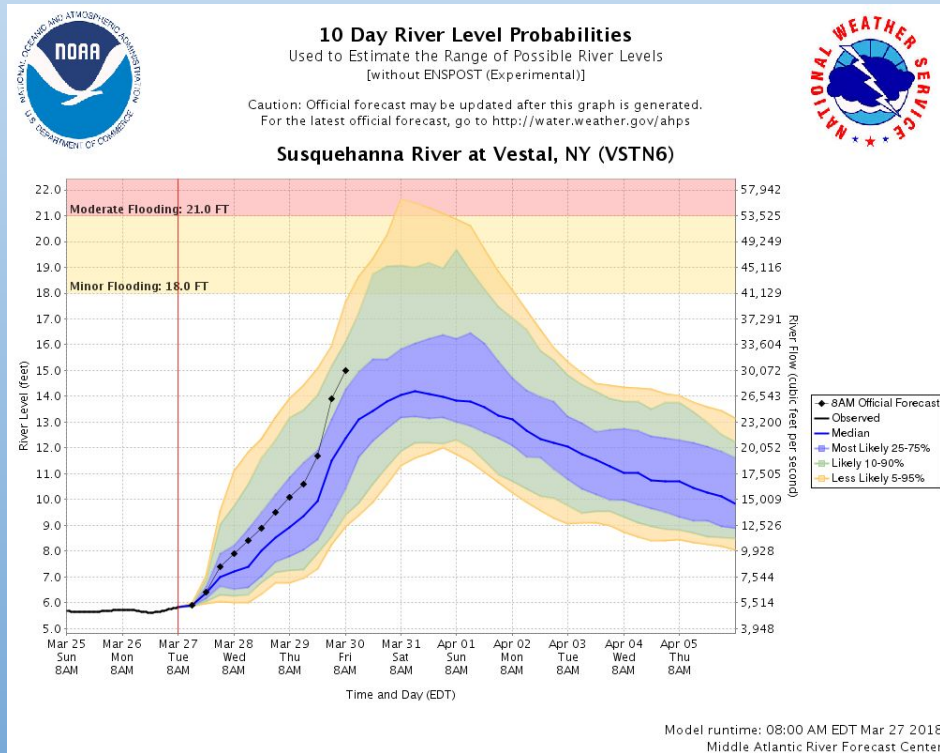
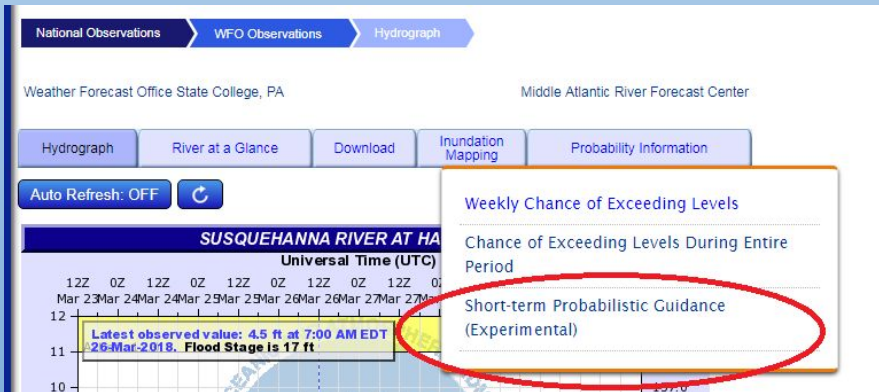


# Introducing HEFS

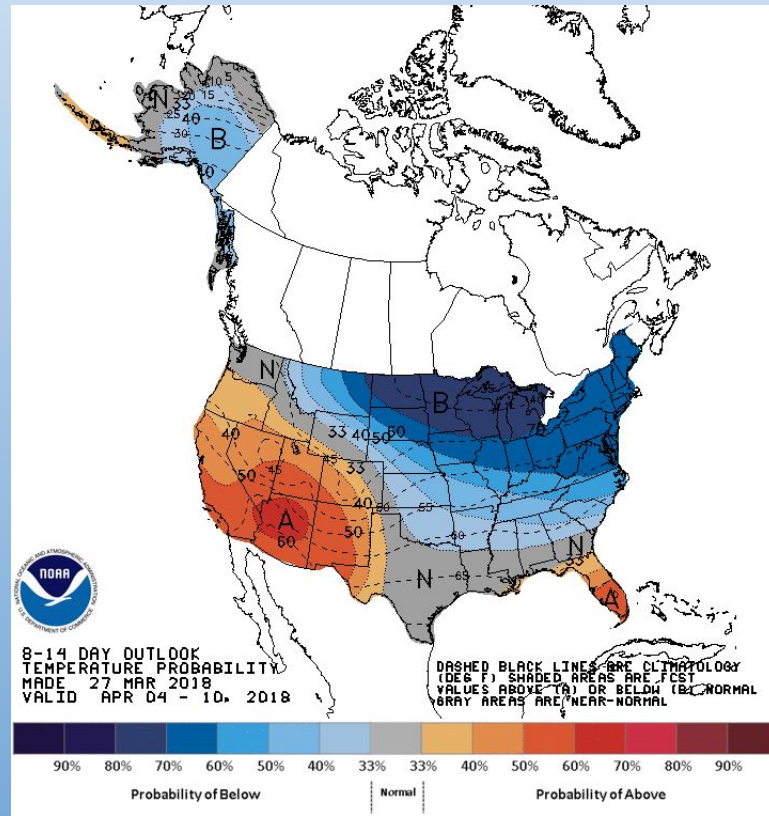
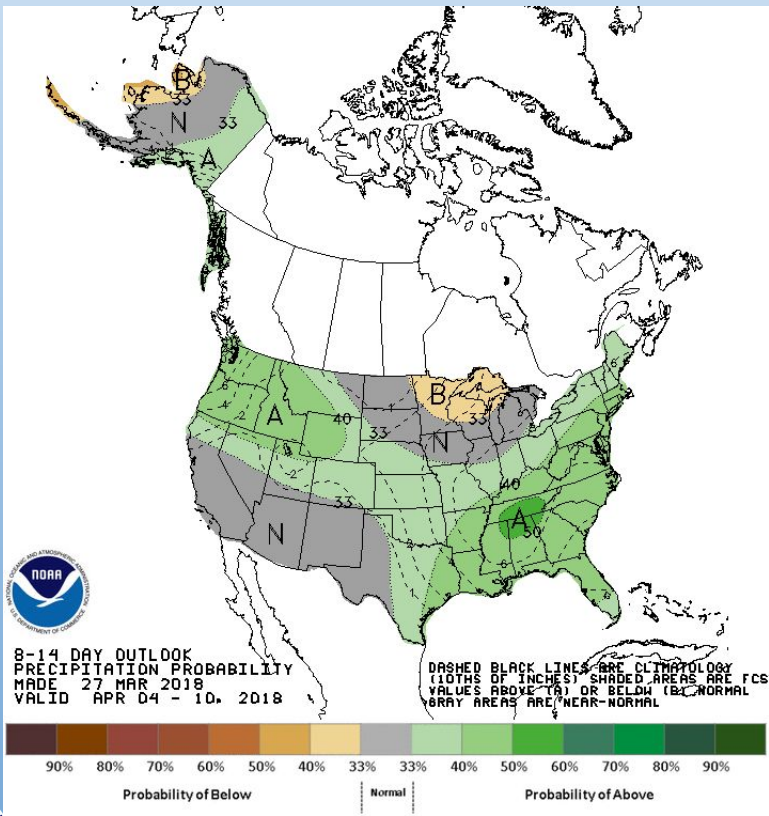
## Hydrologic Ensemble Forecast Service

10 to 30+ day outlooks

Data found on AHPS forecast pages at  $\frac{2}{3}$  of our forecast points



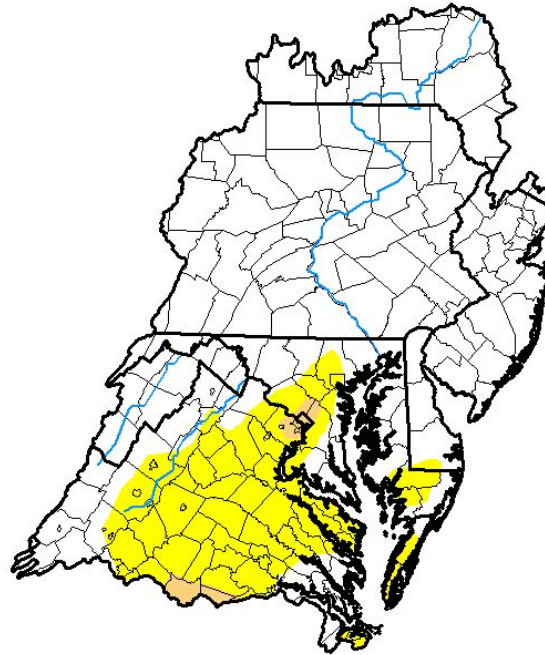
# Two Week Precipitation & Temperature



# Drought Monitor

## U.S. Drought Monitor Middle Atlantic RFC

March 27, 2018  
(Released Thursday, Mar. 29, 2018)  
Valid 8 a.m. EDT



### Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

### Author:

Chris Fenimore  
NCEI/NESDIS/NOAA



<http://droughtmonitor.unl.edu/>

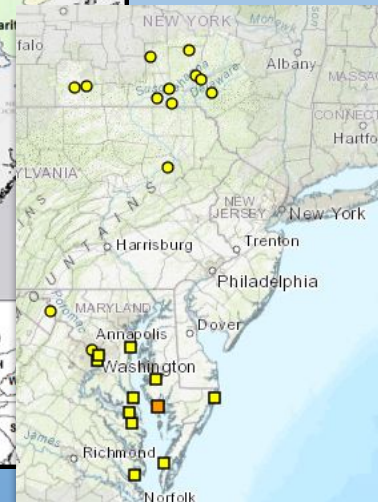
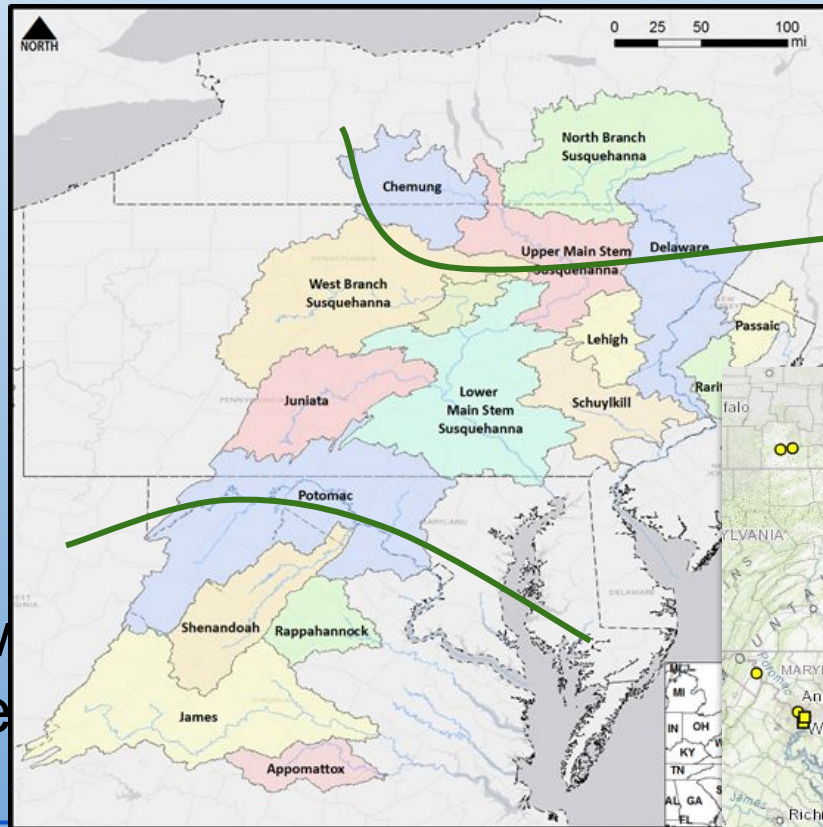


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# Overall Outlook

Above Average

Below Average



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Water Resources Regions

- Probability and forecasts available
- Forecasts available

24 total gauges

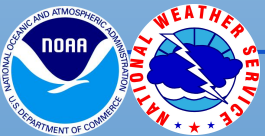
[Show all locations in flood \(1\)](#)

- 0 Gauges: Major Flooding
- 0 Gauges: Moderate Flooding
- 1 Gauges: Minor Flooding
- 23 Gauges: Near Flood Stage
- 0 Gauges: No Flooding
- 0 Flood Category Not Defined
- 0 At or Below Low Water Threshold
- 0 Gauges: Forecasts Are Not Current
- 0 Gauges: No forecast within selected timeframe
- 0 Gauges: Out of Service

[Show all locations](#)

Last map update:  
03/29/2018 at 09:06:45 am EDT  
03/29/2018 at 13:06:45 UTC

[What is UTC time?](#)



Middle Atlantic River Forecast Center

# Questions / Contact

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

