

# Delaware River Basin Commission

## Hydrologic Conditions

*Hernán Quinodoz, Ph.D.*

*June 21, 2018*

Presented to an advisory committee of the DRBC.  
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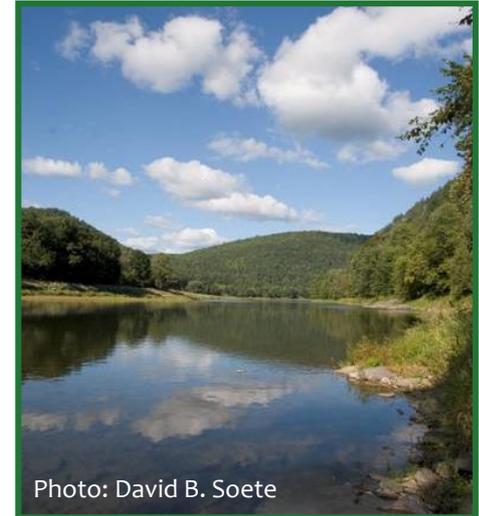


Photo: David B. Soete



**Delaware River Basin Commission**

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# Precipitation

	2014	2015	January- June 19, 2018
<b>Above Montague</b>	42.40" (-2.89")	43.34" (-1.95")	20.12" (+0.11")
<b>Above Trenton</b>	43.20" (-4.79")	44.06" (-3.93")	23.80" (+2.79")
<b>Wilmington</b>	50.91" (+7.83")	48.74" (+5.66")	23.17" (+3.65")

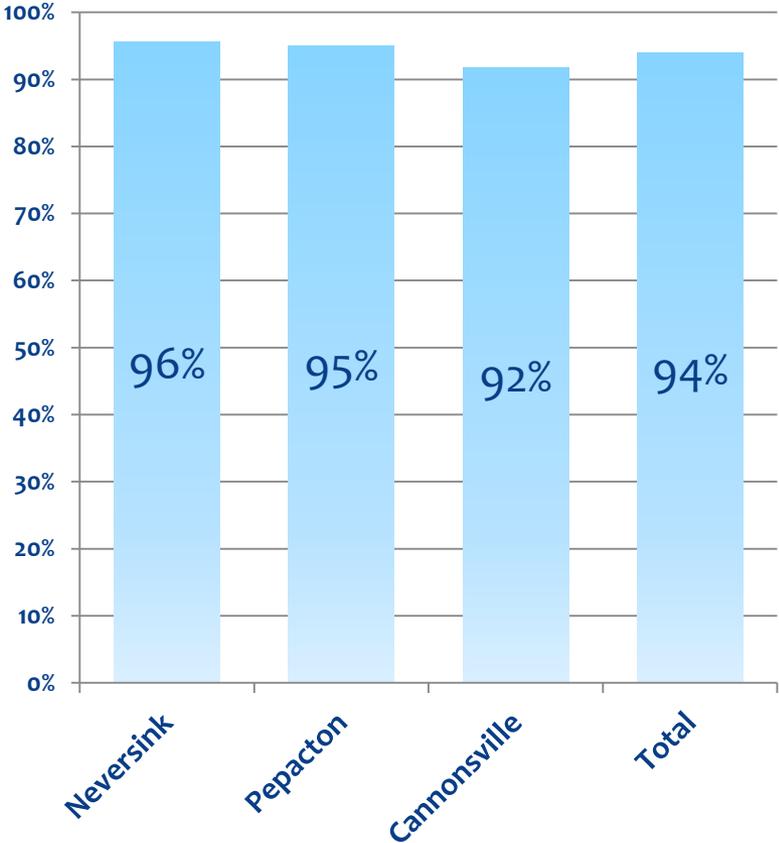


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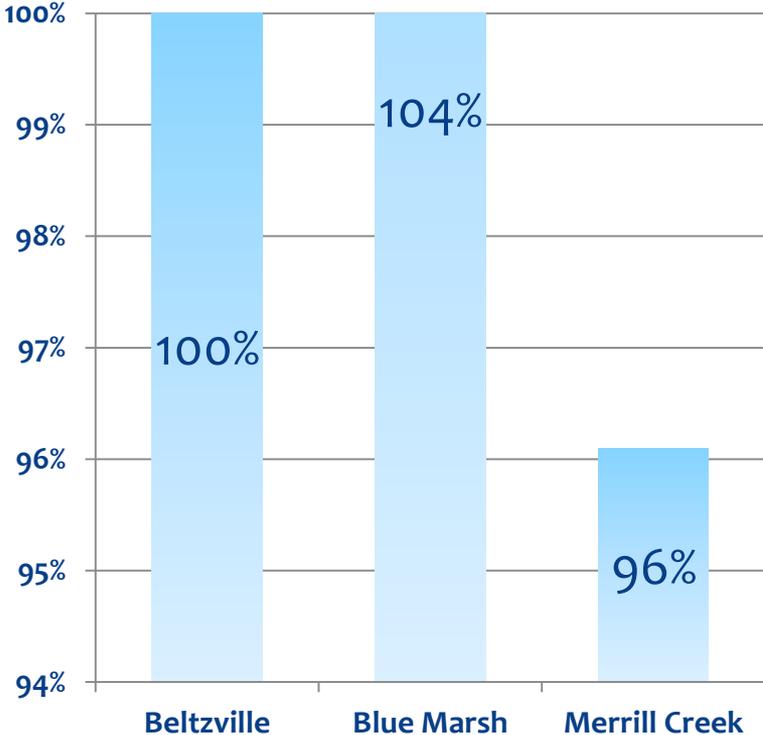
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# Basin Storage

### New York City Delaware River Basin Storage



### Lower Basin Storage

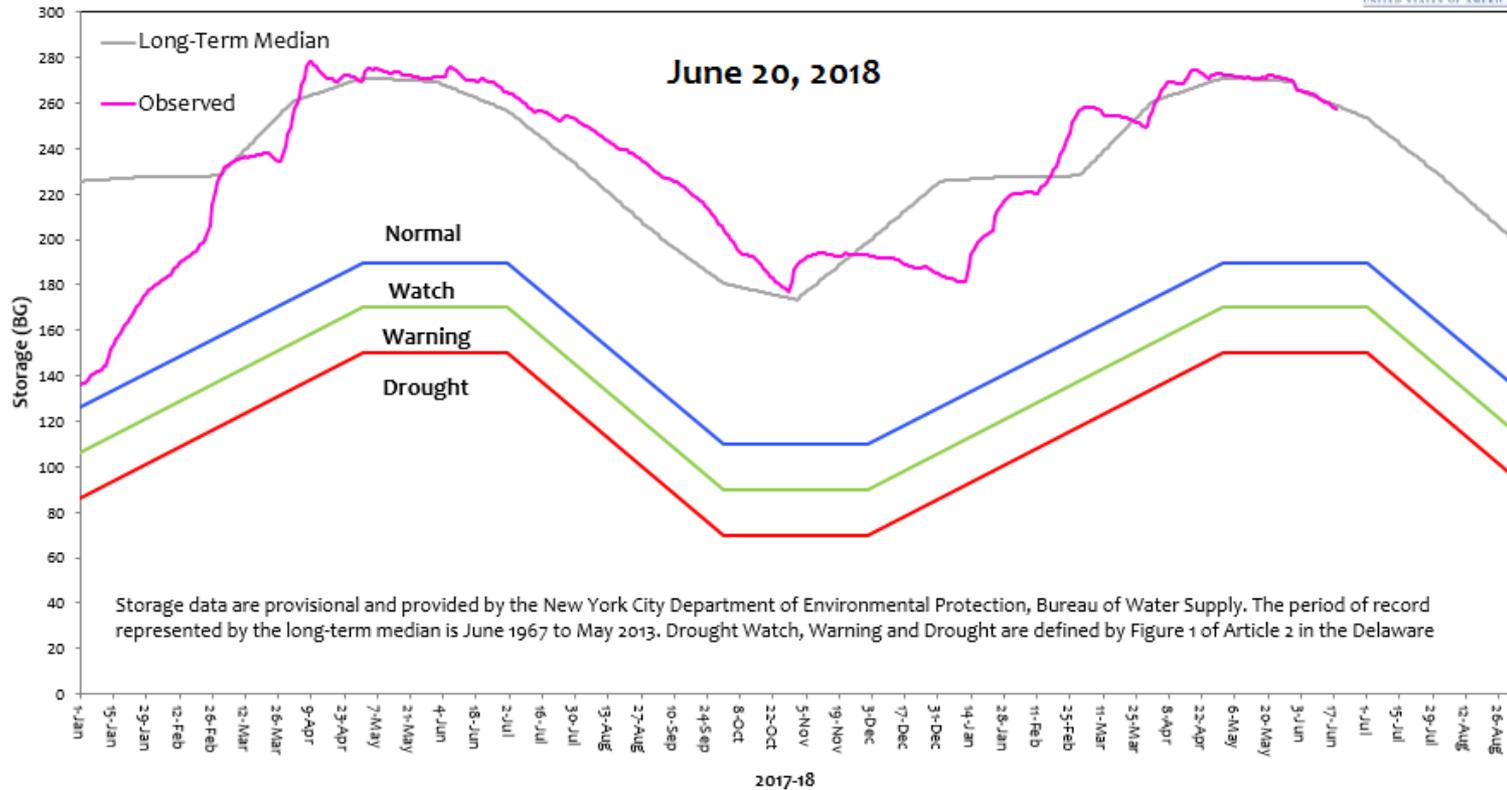


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# Basin Storage

6/20/18 Storage= 255.5 BG

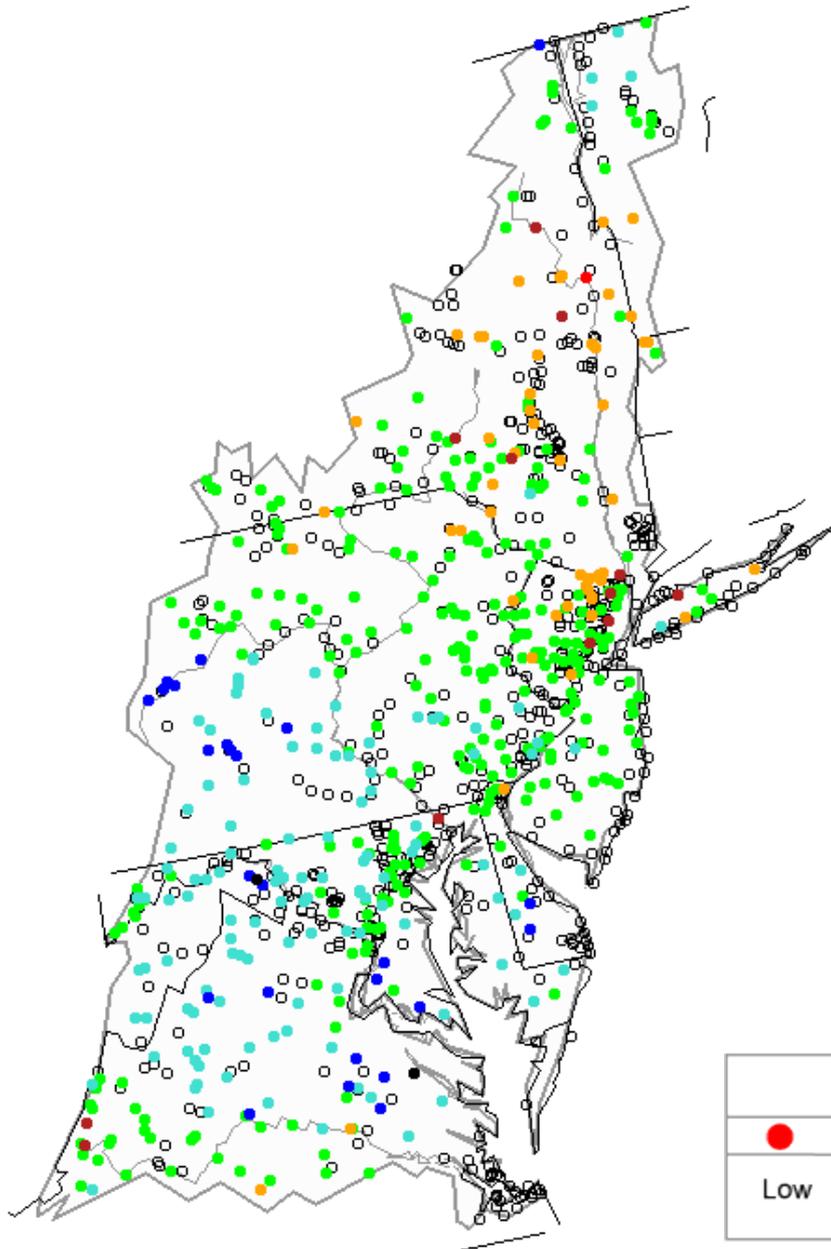
New York City Delaware River Basin Storage



\* As of June 1, 2018, the NYC Delaware reservoir statistics have been changed to reflect the 2016 USGS bathymetry tables.

Useable BG %	Cannonsville	Pepacton	Neversink	Total	BG Above Drought	BG Above Drought Watch =	BG Above Drought Warning :	BG Above Drought =	BG Below Daily Storage Median =	BG Below One Year Ago =
	87.5	134.6	33.5	255.5	66	86	106		3	15
%	93.6%	96.6%	96.4%	95.5%						

# Streamflow



6/20/18

[https://waterwatch.usgs.gov/index.php?r=02&id=ww\\_current](https://waterwatch.usgs.gov/index.php?r=02&id=ww_current)

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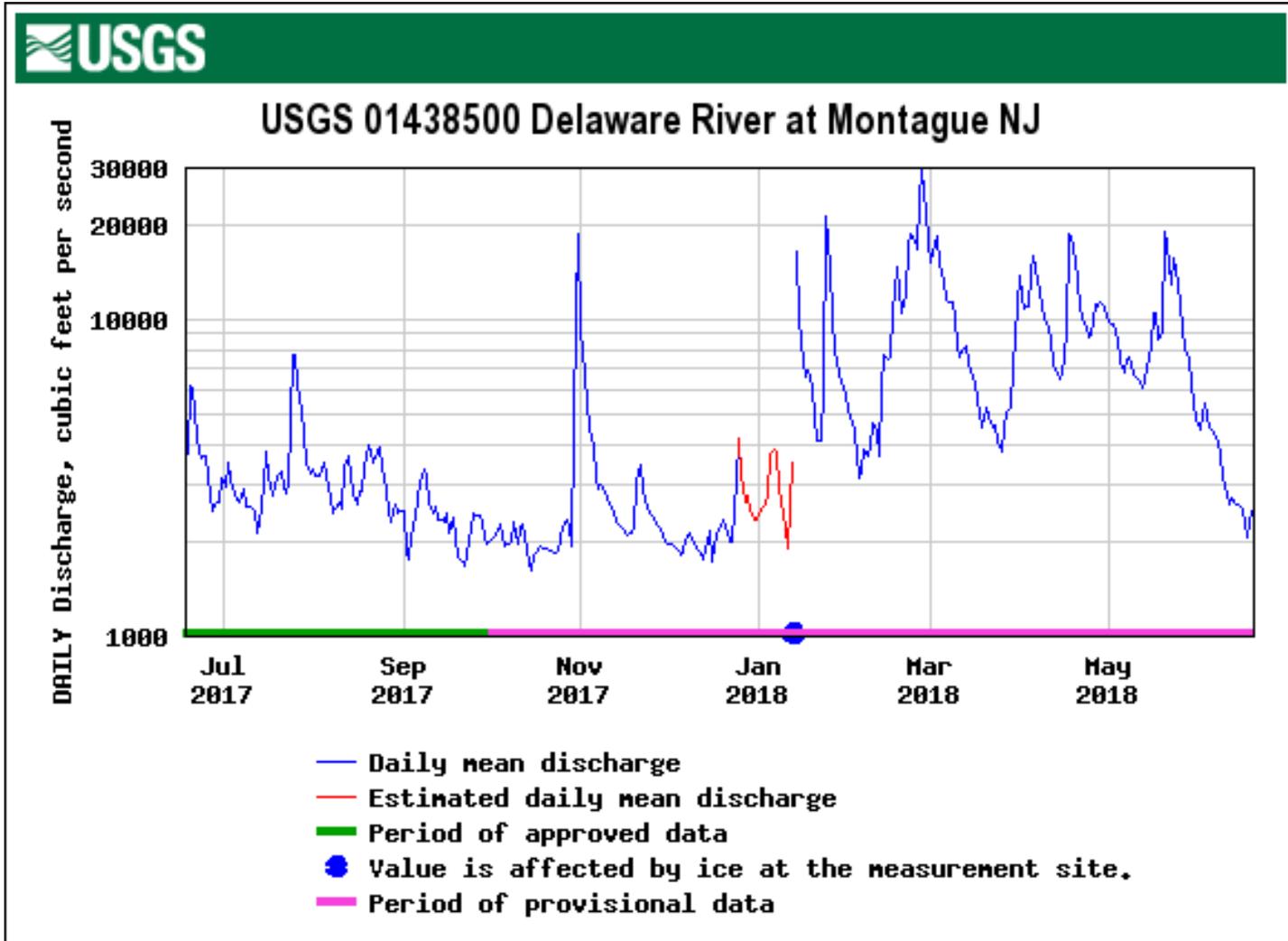


Explanation - Percentile classes							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked

# Streamflow

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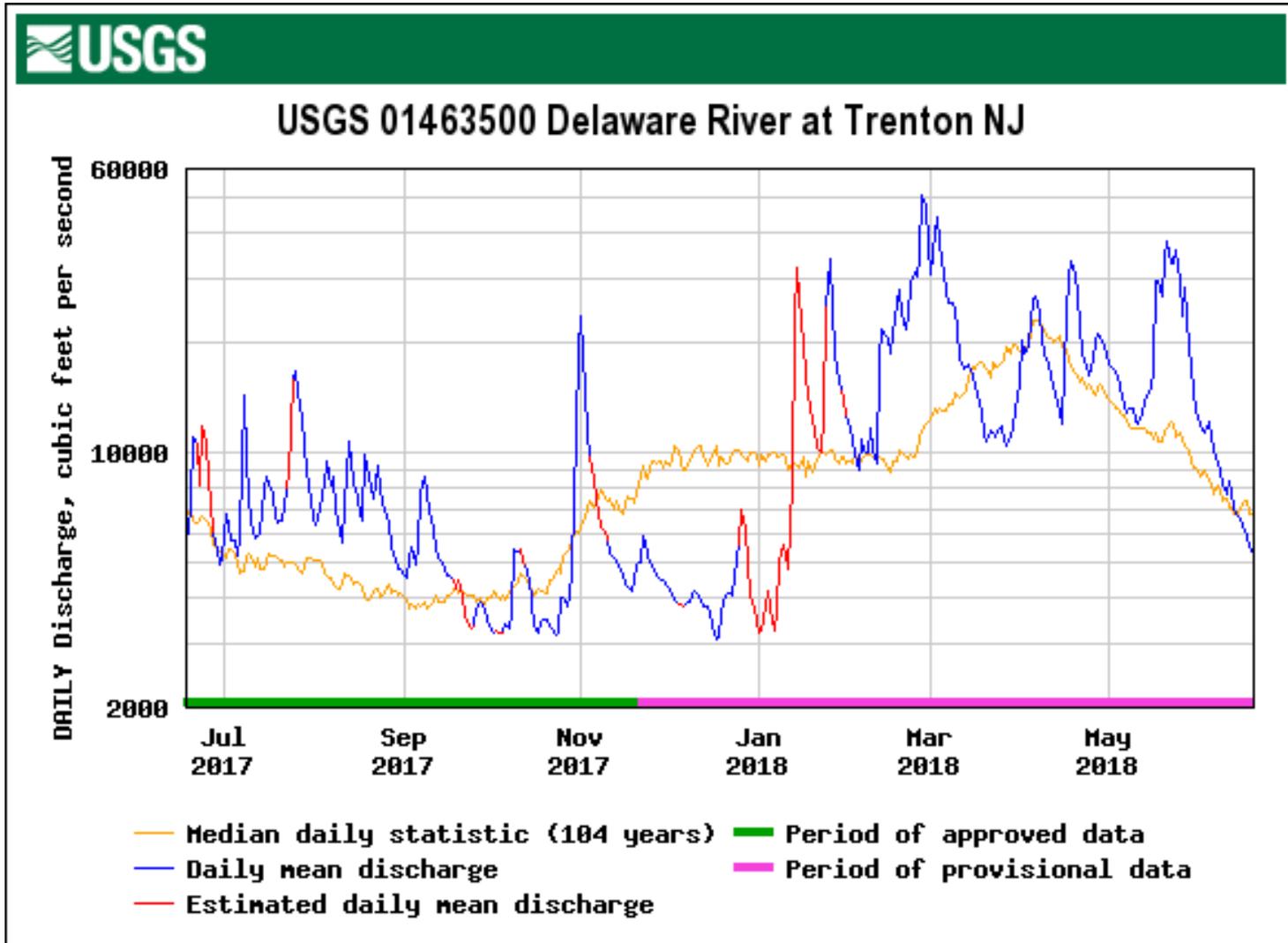
6/19/18 Avg Daily Streamflow= 2,470 cfs



# Streamflow

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6/19/18 Avg Daily Streamflow= 5,360 cfs

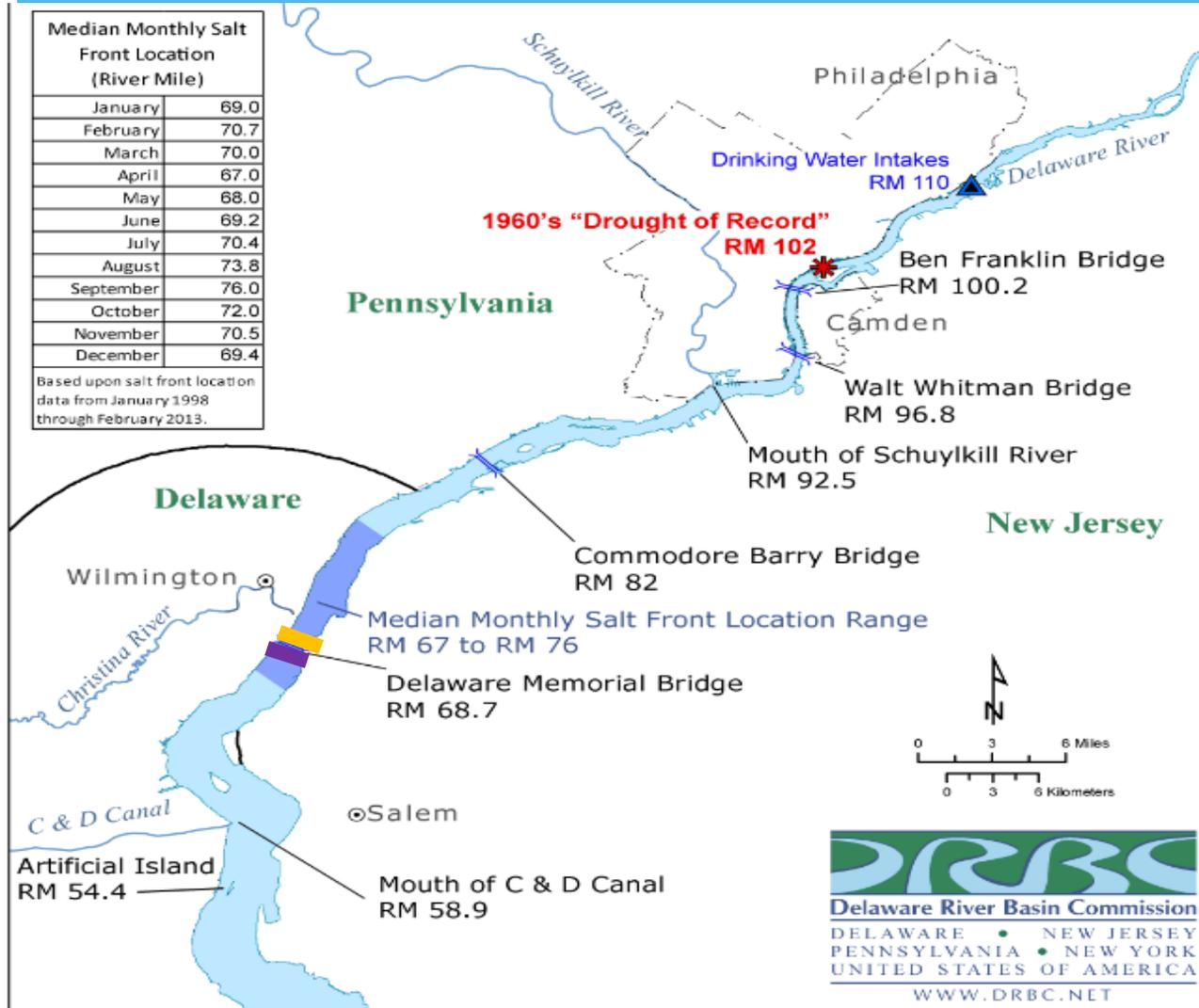


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# Salt Front

Median Monthly Salt Front Location (River Mile)	
January	69.0
February	70.7
March	70.0
April	67.0
May	68.0
June	69.2
July	70.4
August	73.8
September	76.0
October	72.0
November	70.5
December	69.4

Based upon salt front location data from January 1998 through February 2013.



**Chlorides**  
7-Day Avg. RM Location of 250 mg/l

**Current R.M. 68**

**Normal R.M. 69**

The Flow Objective at Trenton was designed to repel salinity for the protection of drinking water treatment facilities and industrial intakes.

# Groundwater

COUNTY	STATE	AGENCY DATA	WELL ID	YEAR RECORD BEGINS	INDICATOR STATUS AS OF MARCH 13, 2018	INDICATOR STATUS AS OF JUNE 20, 2018
<a href="#">Sullivan</a>	NY	USGS	Sv 535	2001	Above Normal	Normal
<a href="#">Wayne</a>	PA	USGS	WN 64	1967	Above Normal	Above Normal
<a href="#">Monroe</a>	PA	USGS	MO 190	1967	Above Normal	Normal
<a href="#">Carbon</a>	PA	USGS	CB 104	1969	Above Normal	Above Normal
<a href="#">Schuylkill</a>	PA	USGS	SC 296	1975	Above Normal	Normal
<a href="#">Lehigh</a>	PA	USGS	LE 644	1971	Normal	Normal
<a href="#">Lebanon</a>	PA	USGS	LB 372	1973	Above Normal	Above Normal
<a href="#">Bucks</a>	PA	USGS	BK 1020	1975	Above Normal	Above Normal
<a href="#">Chester</a>	PA	USGS	CH 10	1966	Normal	Normal
<a href="#">Delaware</a>	PA	USGS	DE 723	1983	Normal	Normal
<a href="#">Burlington</a>	NJ	USGS	050689	1955	Below Normal	Normal
<a href="#">Cumberland</a>	NJ	USGS	110042	1972	Normal	Above Normal
<a href="#">New Castle</a>	DE	Delaware GS	Db24-18	1993	Below Normal	Normal ( <i>Through May 2018</i> )

6/20/18

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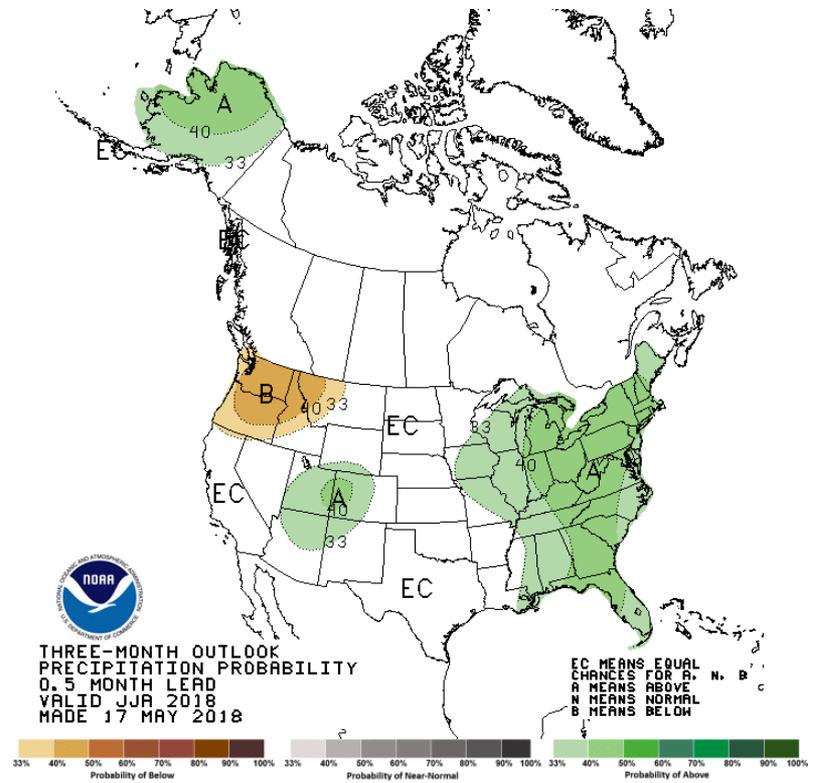
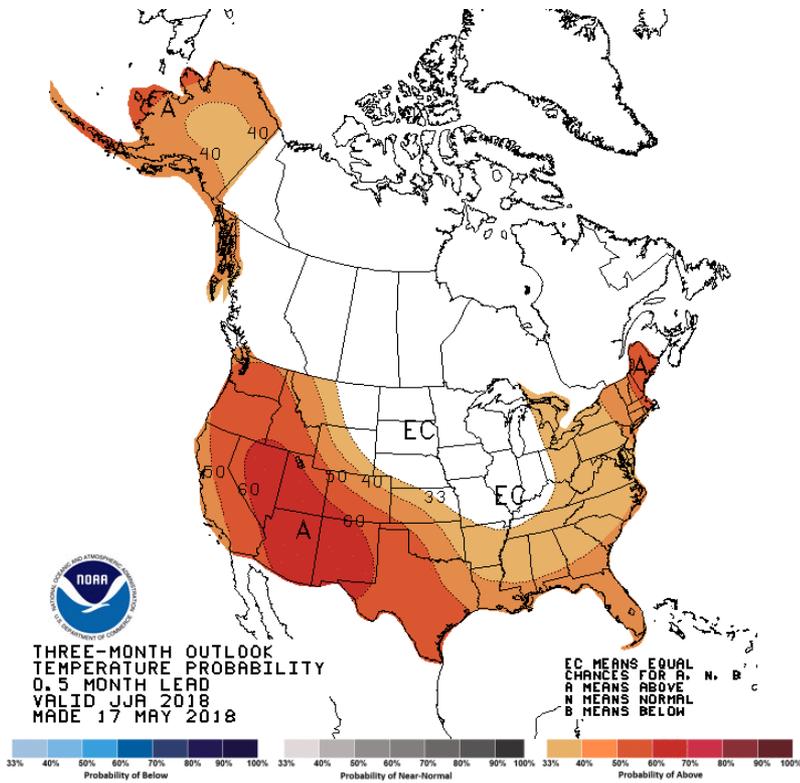


# 3-Month Outlooks

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## TEMPERATURE

## PRECIPITATION

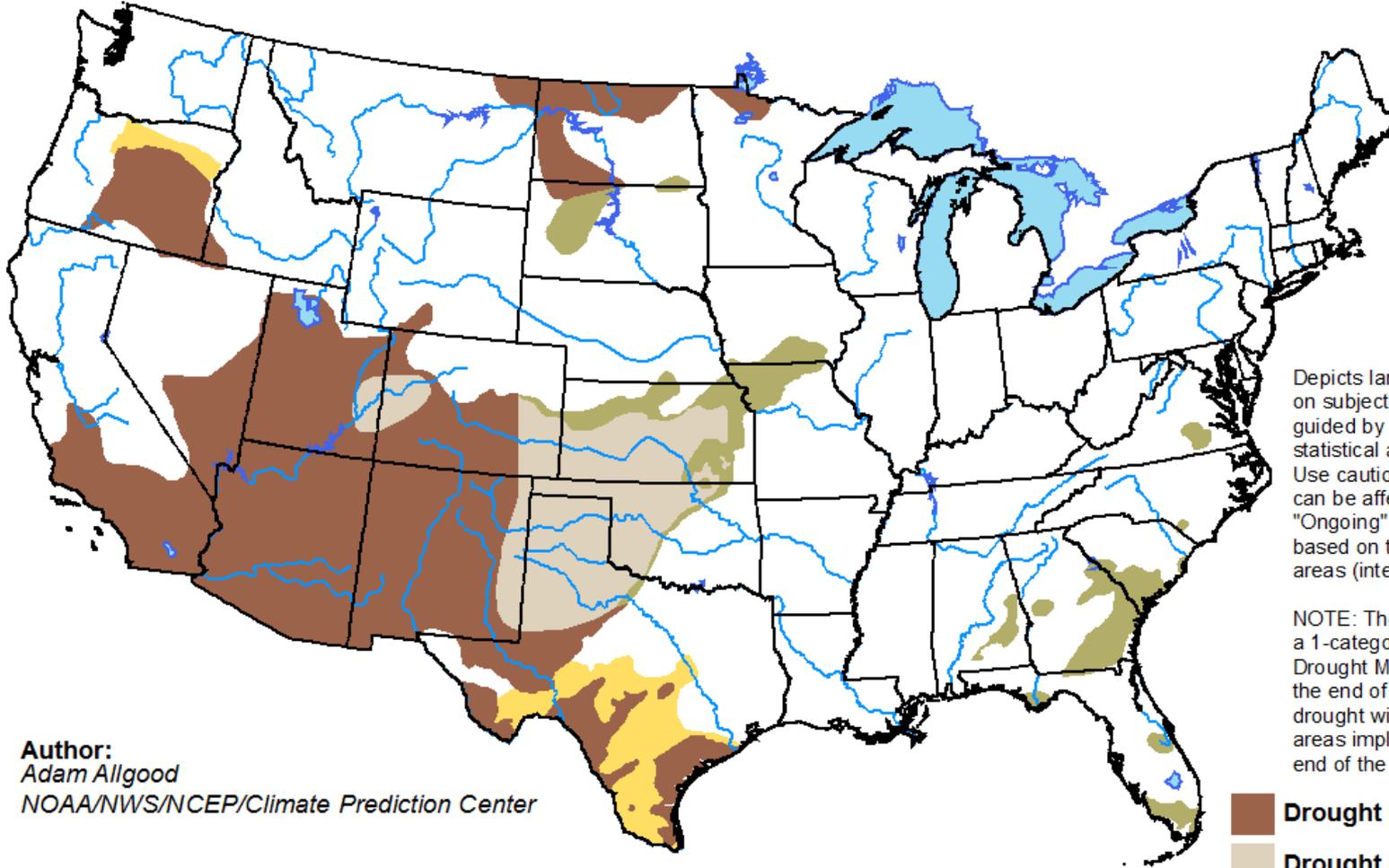


# U.S. Seasonal Drought Outlook

## Drought Tendency During the Valid Period

Valid for May 17 - August 31, 2018  
Released May 17, 2018

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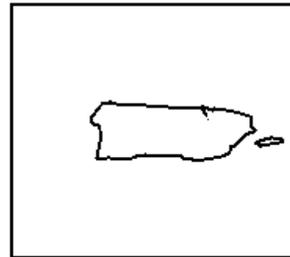
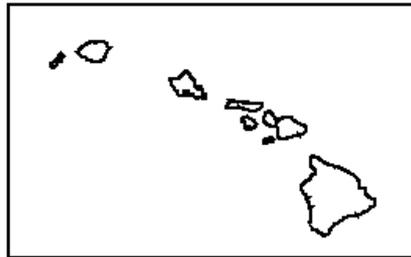
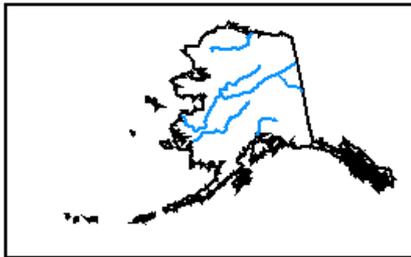


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:  
Adam Allgood  
NOAA/NWS/NCEP/Climate Prediction Center

-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



<http://go.usa.gov/3eZ73>