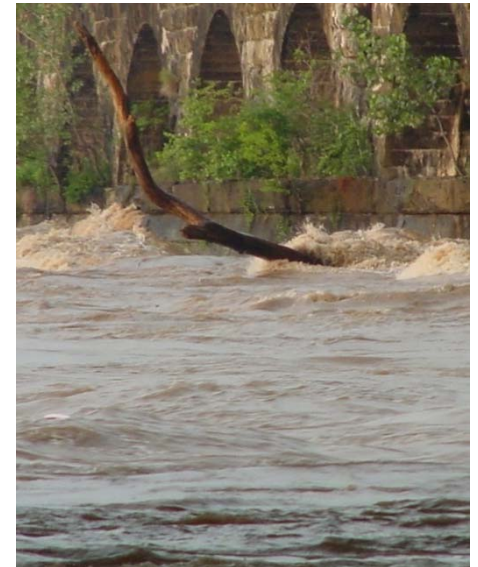


Delaware River Basin Commission

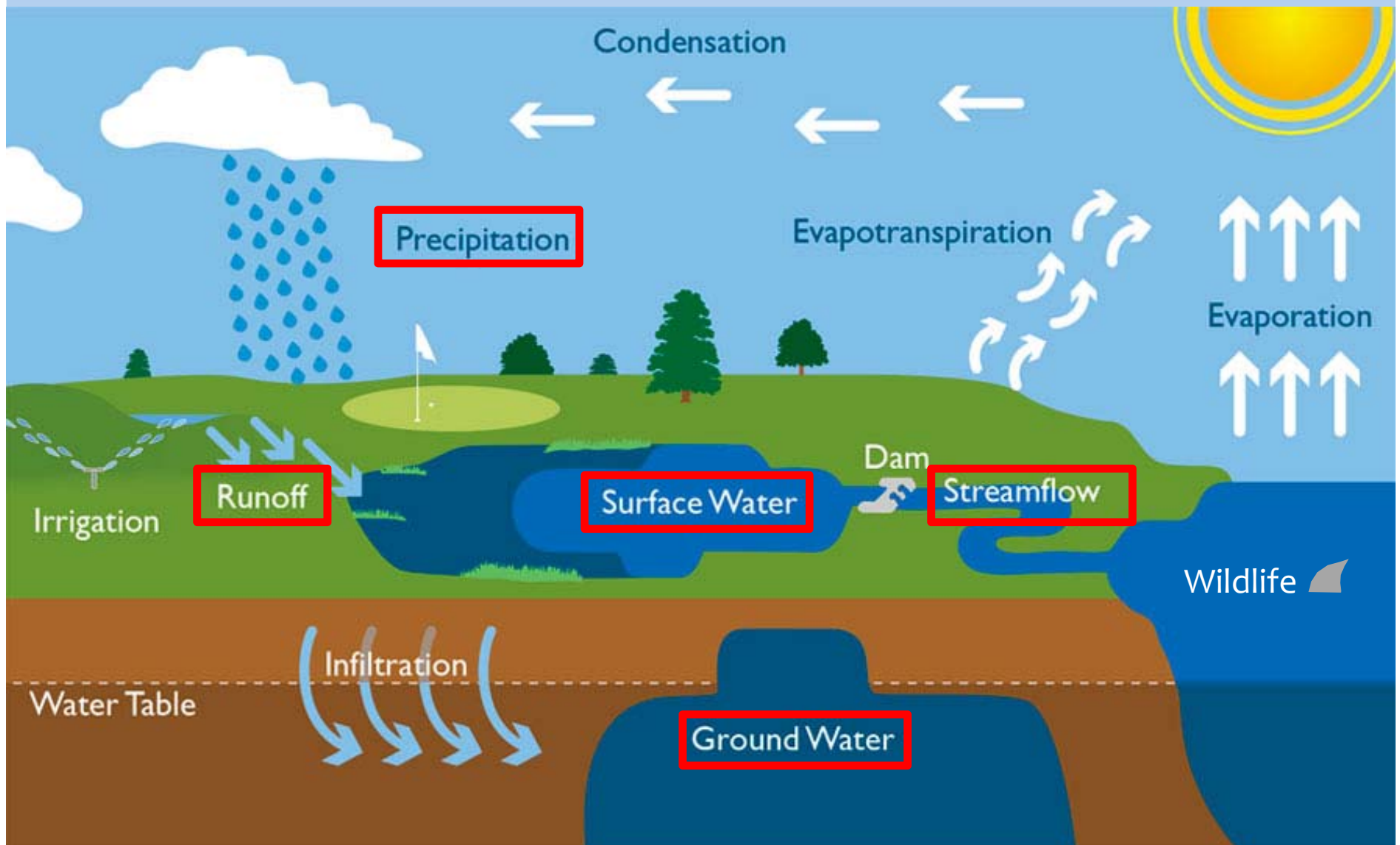
Hydrologic Conditions

Amy L. Shallcross, P.E.
Manager, Water Resource
Operations

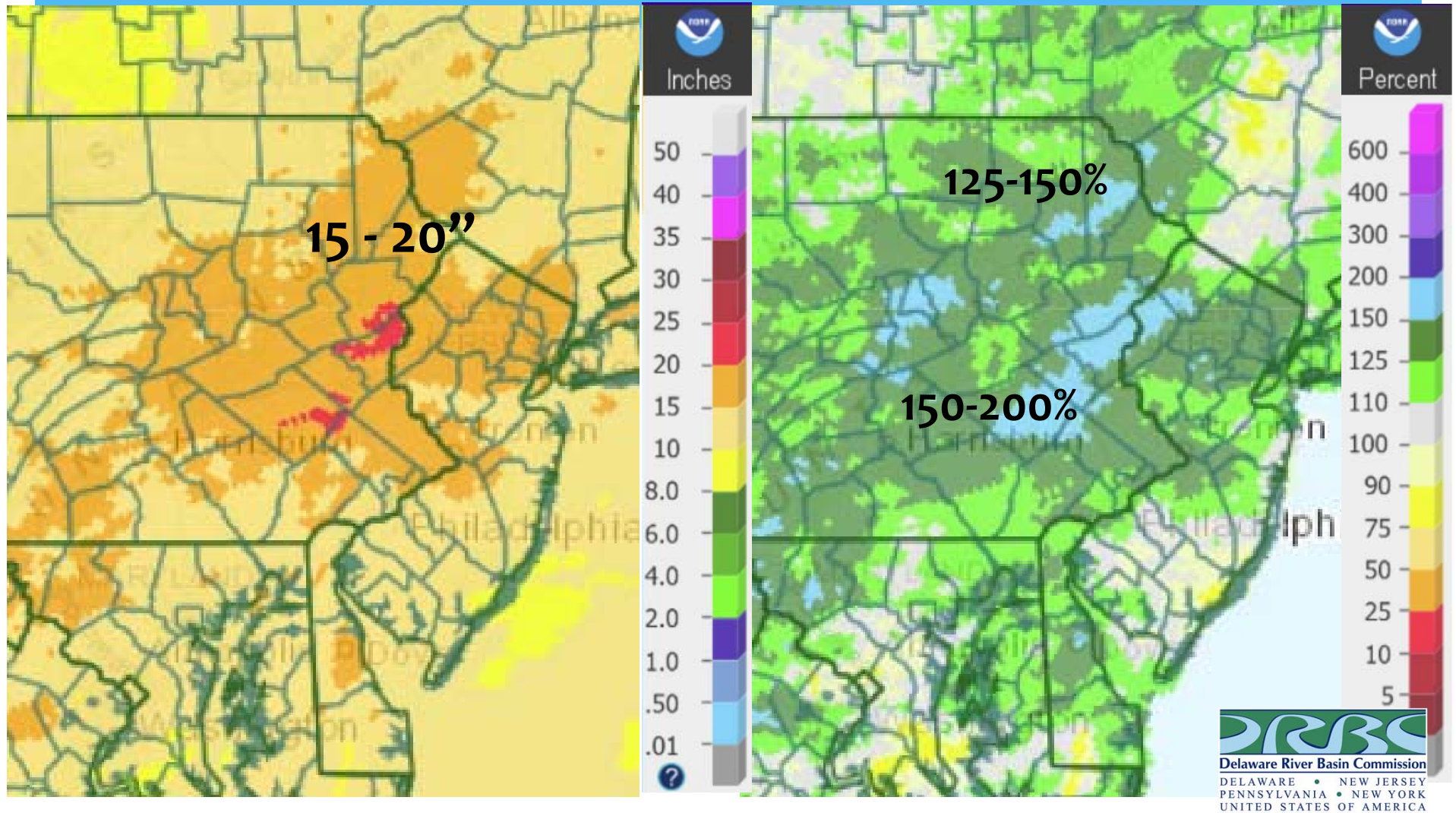
Commission Business Meeting
June 12, 2019



Hydrologic Cycle



90-Day Precipitation



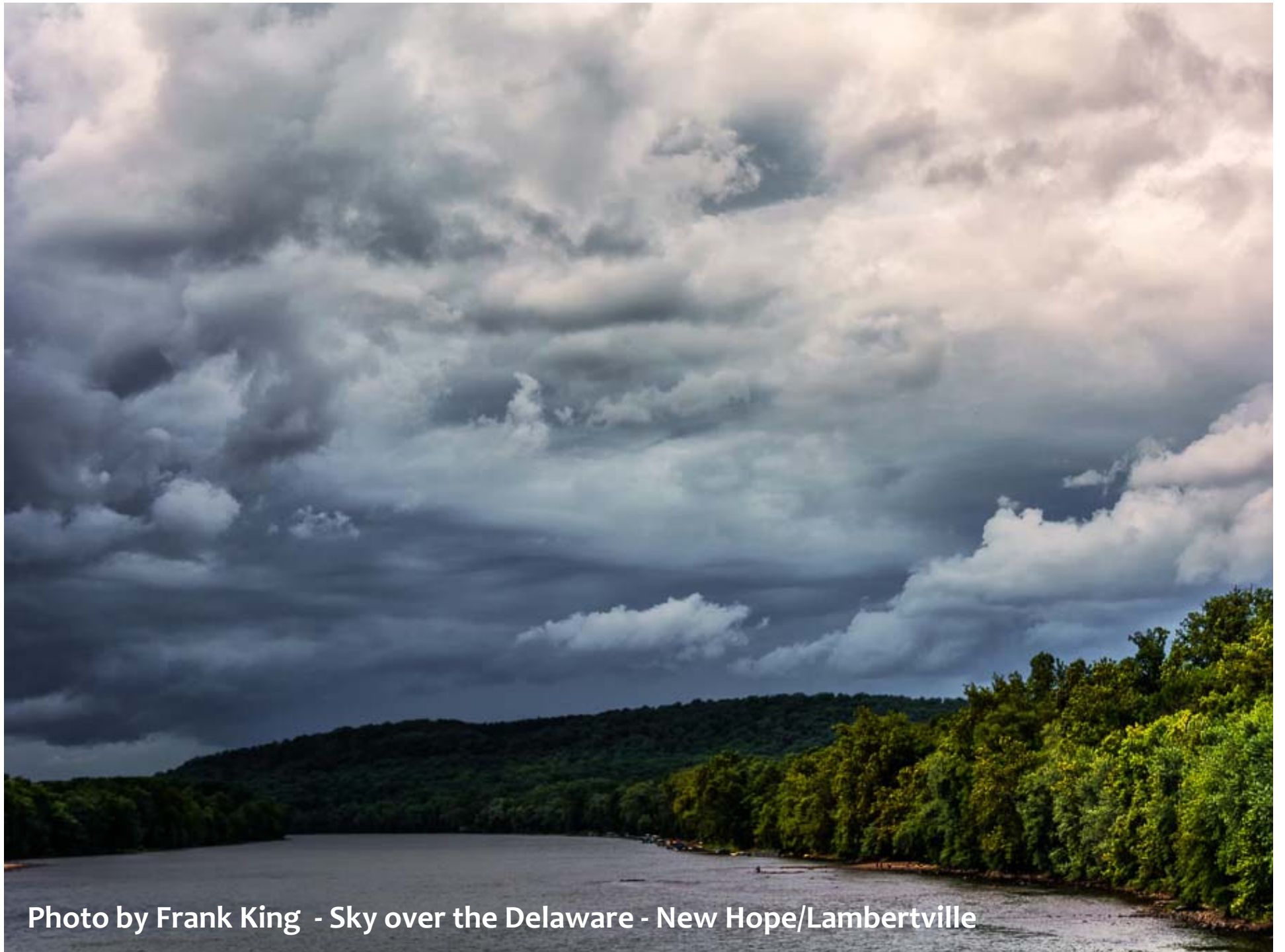








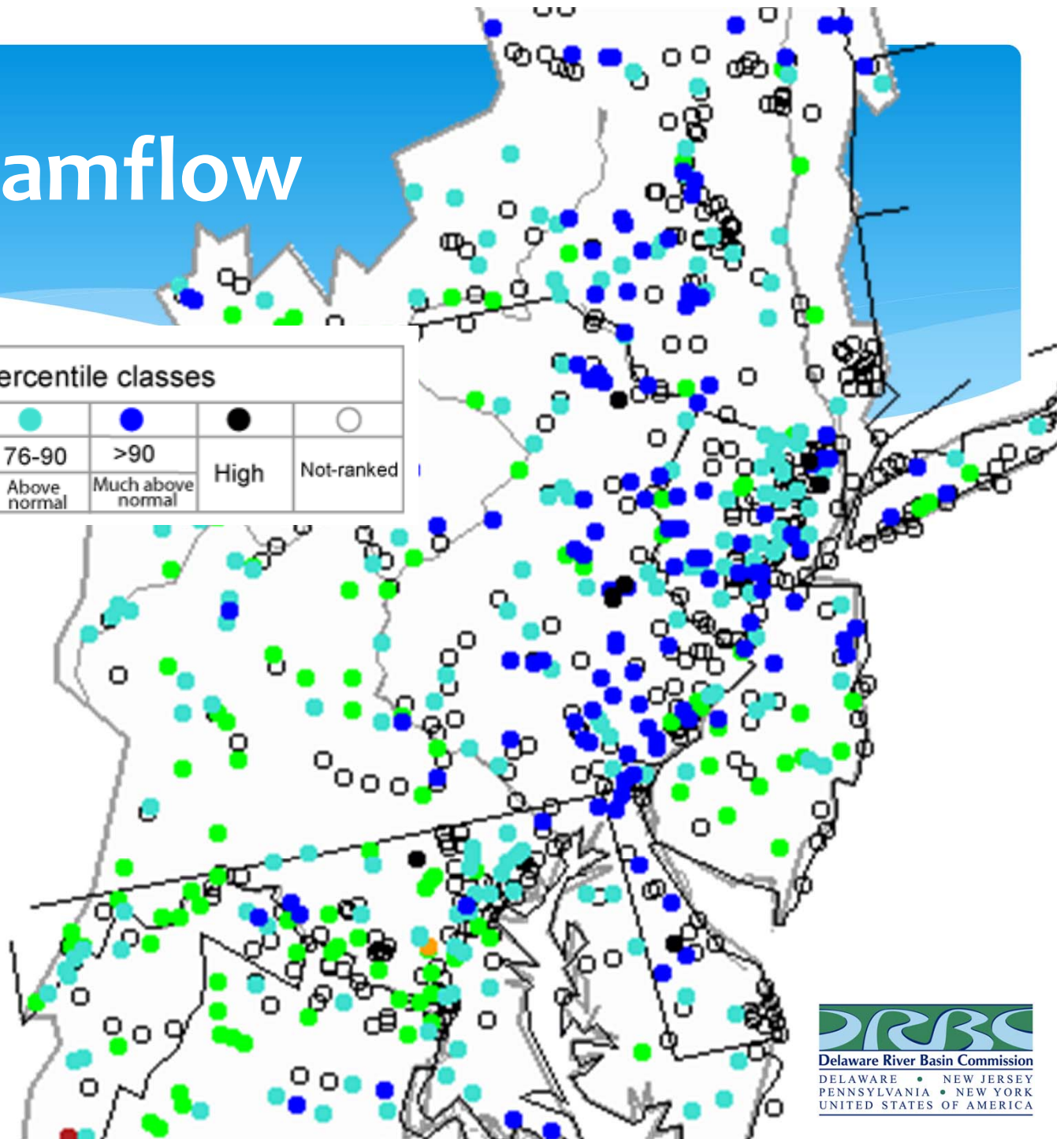


Photo by Frank King - Sky over the Delaware - New Hope/Lambertville

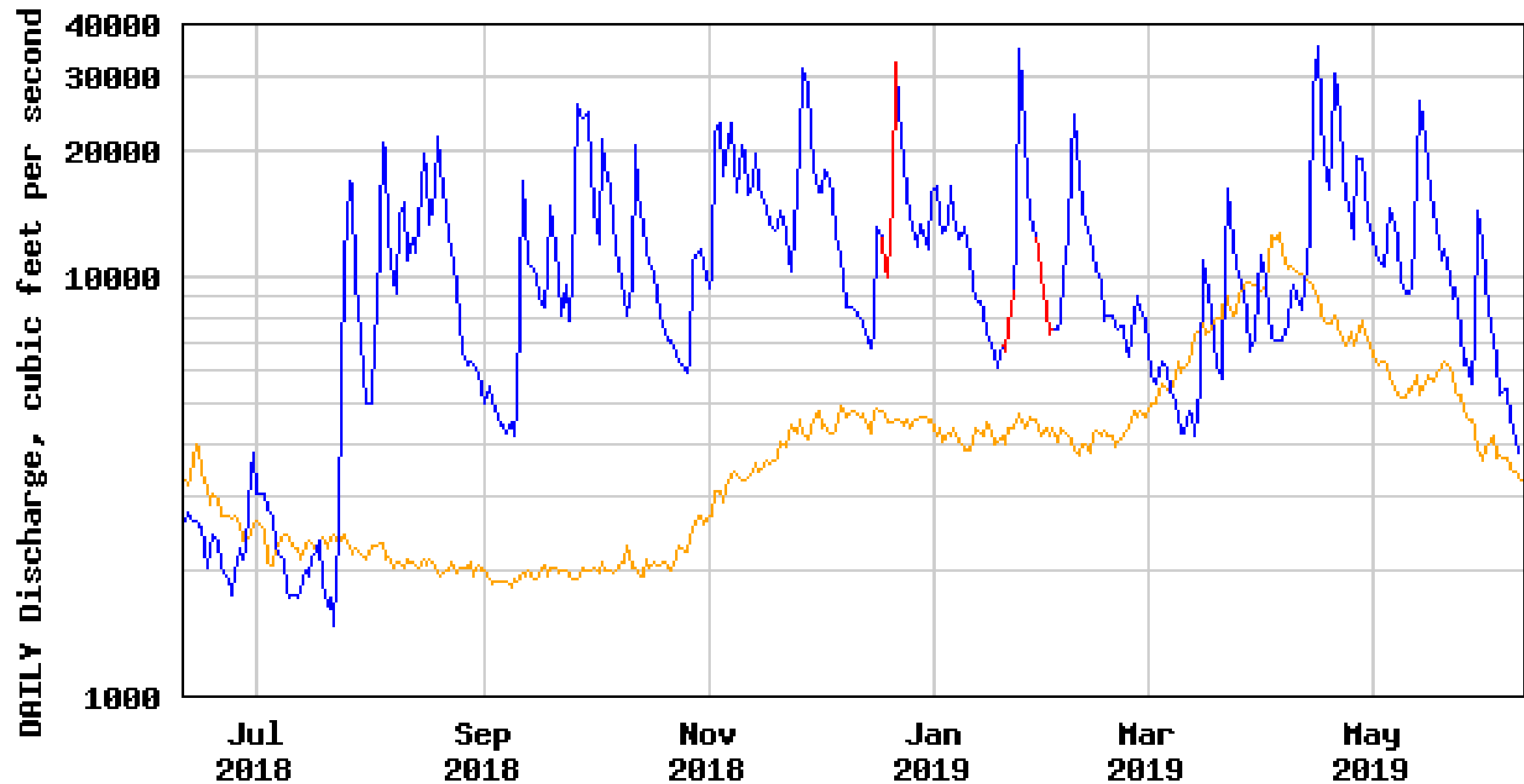
Streamflow

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

As of 3:30 pm,
Tuesday,
June 11, 2019



USGS 01438500 Delaware River at Montague NJ

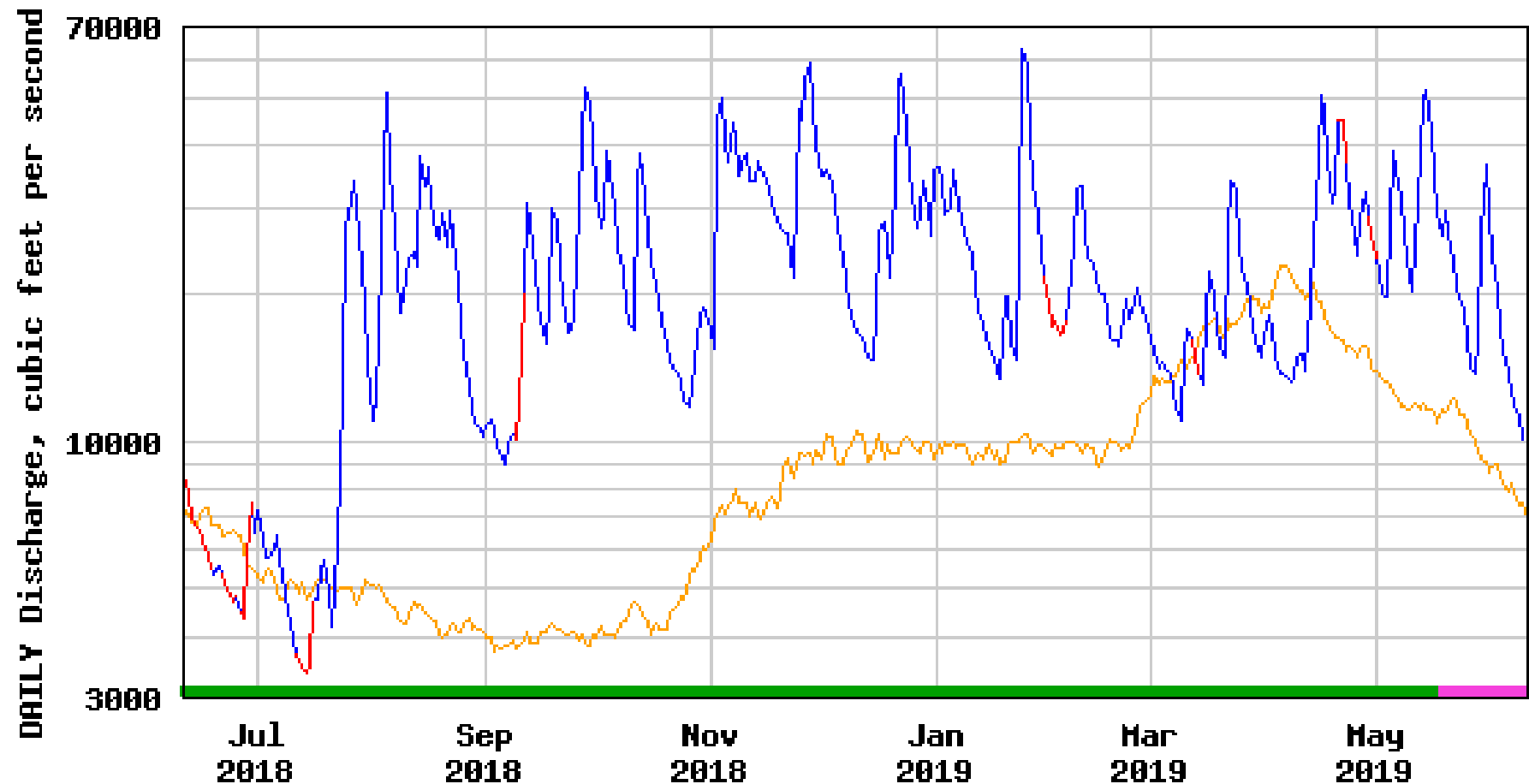


----- Provisional Data Subject to Revision -----

— Median daily statistic (78 years) — Estimated daily mean discharge
— Daily mean discharge



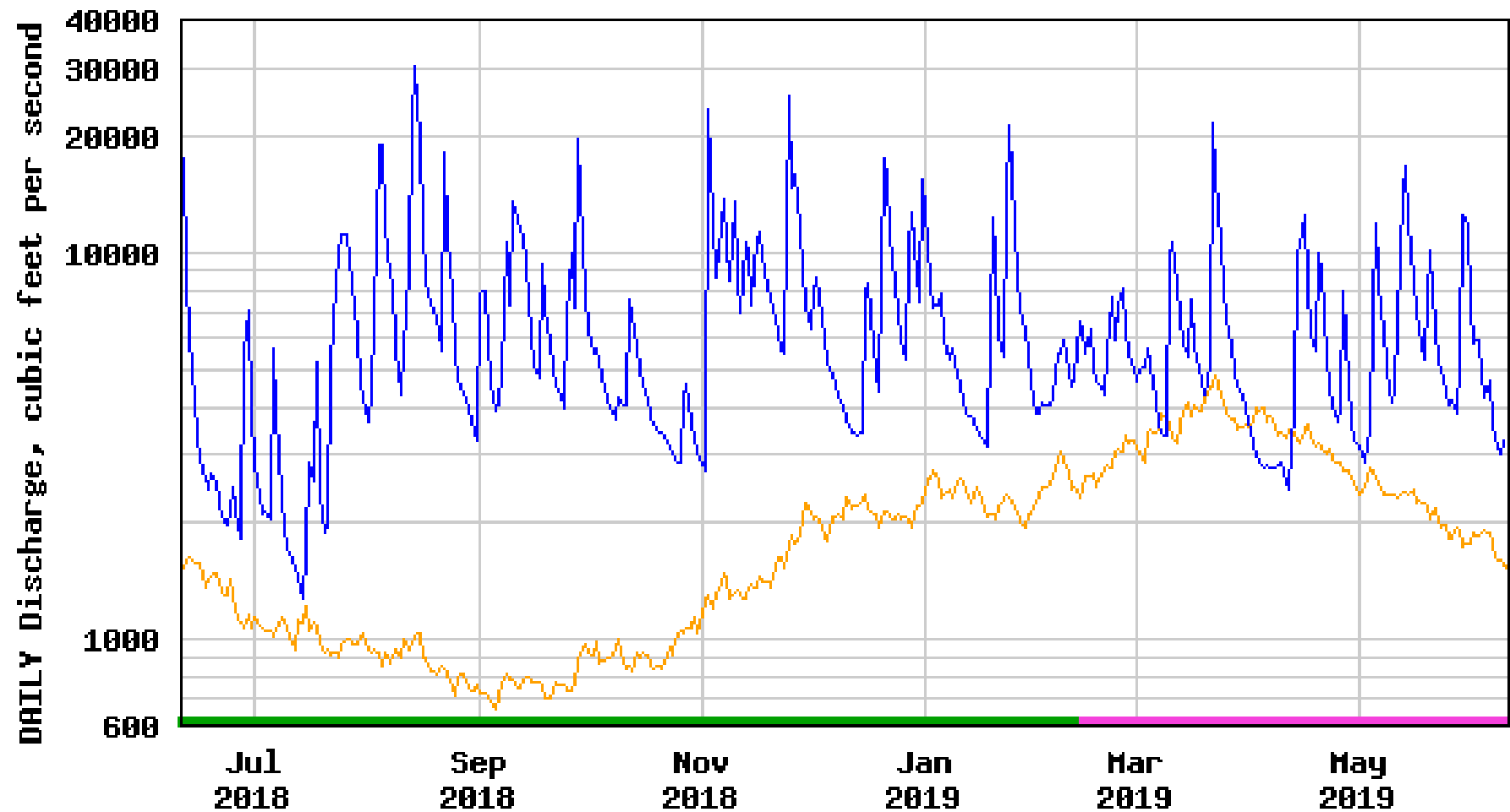
USGS 01463500 Delaware River at Trenton NJ



- Median daily statistic (105 years)
- Daily mean discharge
- Estimated daily mean discharge
- Period of approved data
- Period of provisional data



USGS 01474500 Schuylkill River at Philadelphia, PA



— Median daily statistic (87 years)

— Daily mean discharge

— Period of approved data

— Period of provisional data



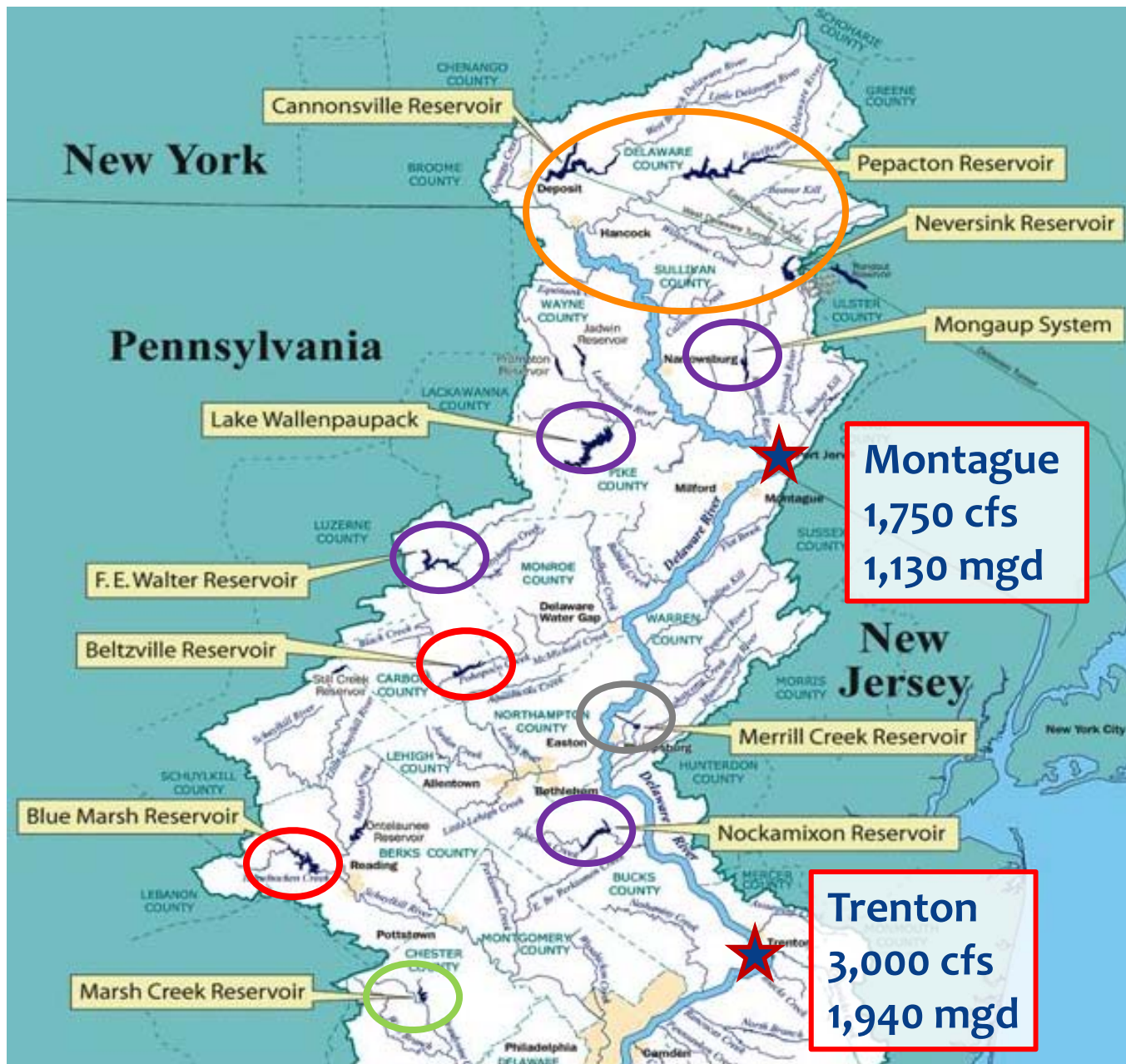
PSA

Stay Afloat: Always Wear A Life Jacket



Photo by Tom Amidon
Rafting after FE Walter Release





Storage

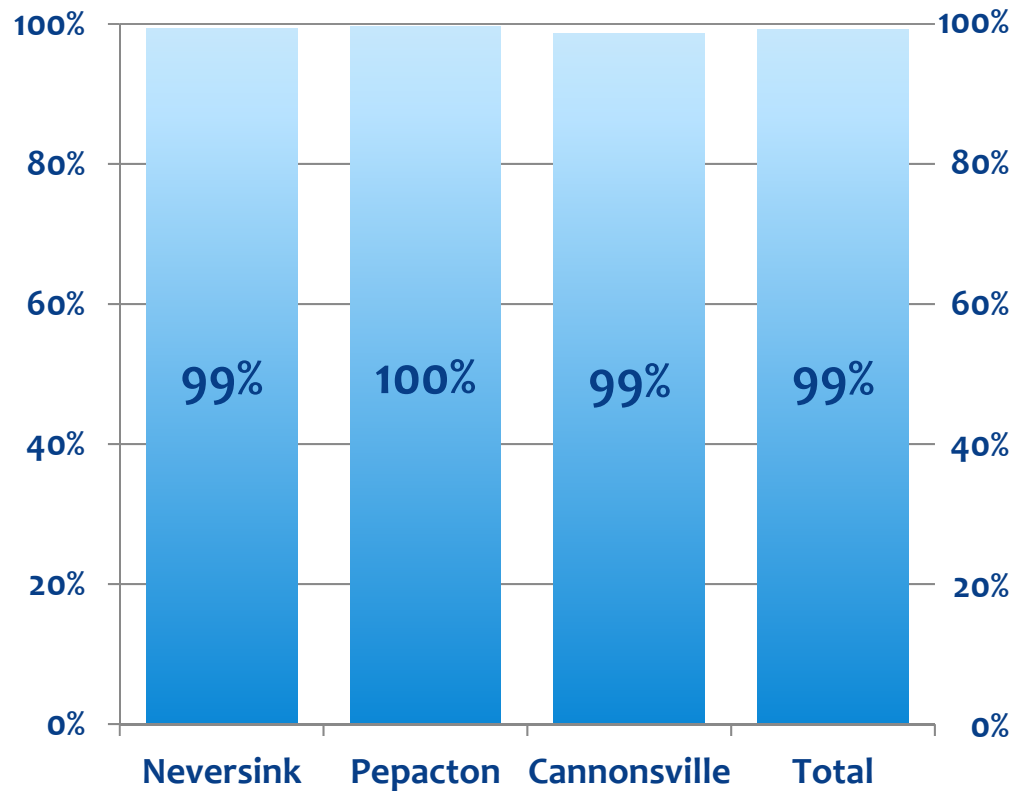
- * FFMP – 6 BG
- * DRBC Storage in USACE Reservoirs
- * Emergency
- * Consumptive Use Make –Up
- * Dockets
- ★ Flow Objectives

In very dry periods, flow at Trenton can be 60 percent or more from reservoir releases

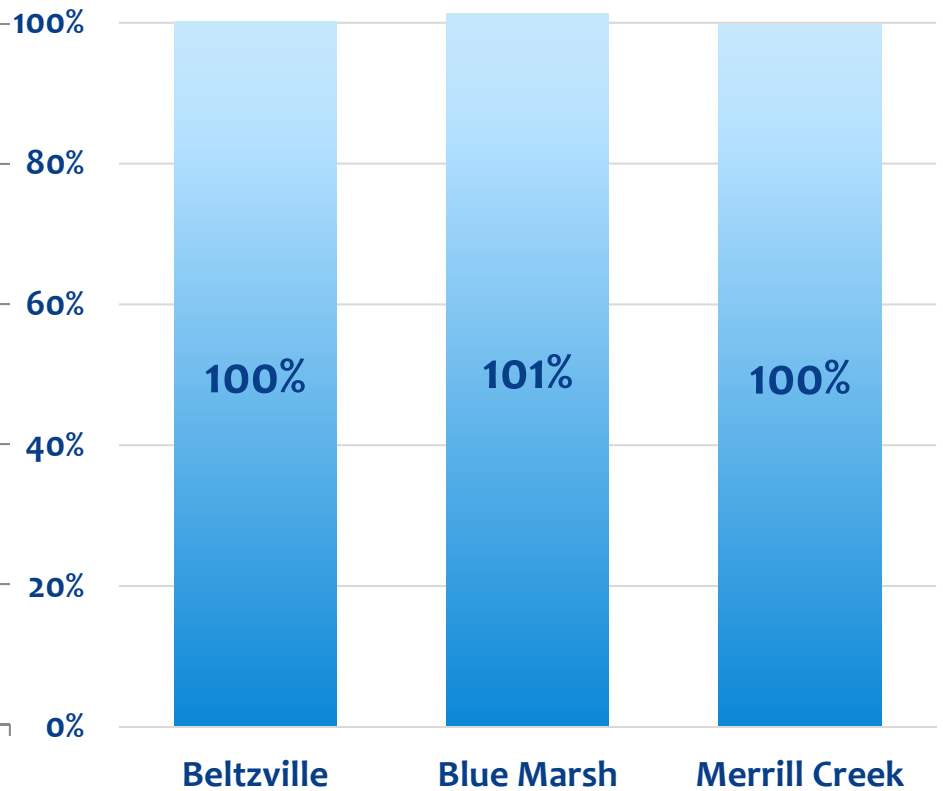
Basin Storage

New York City Delaware

River Basin Storage

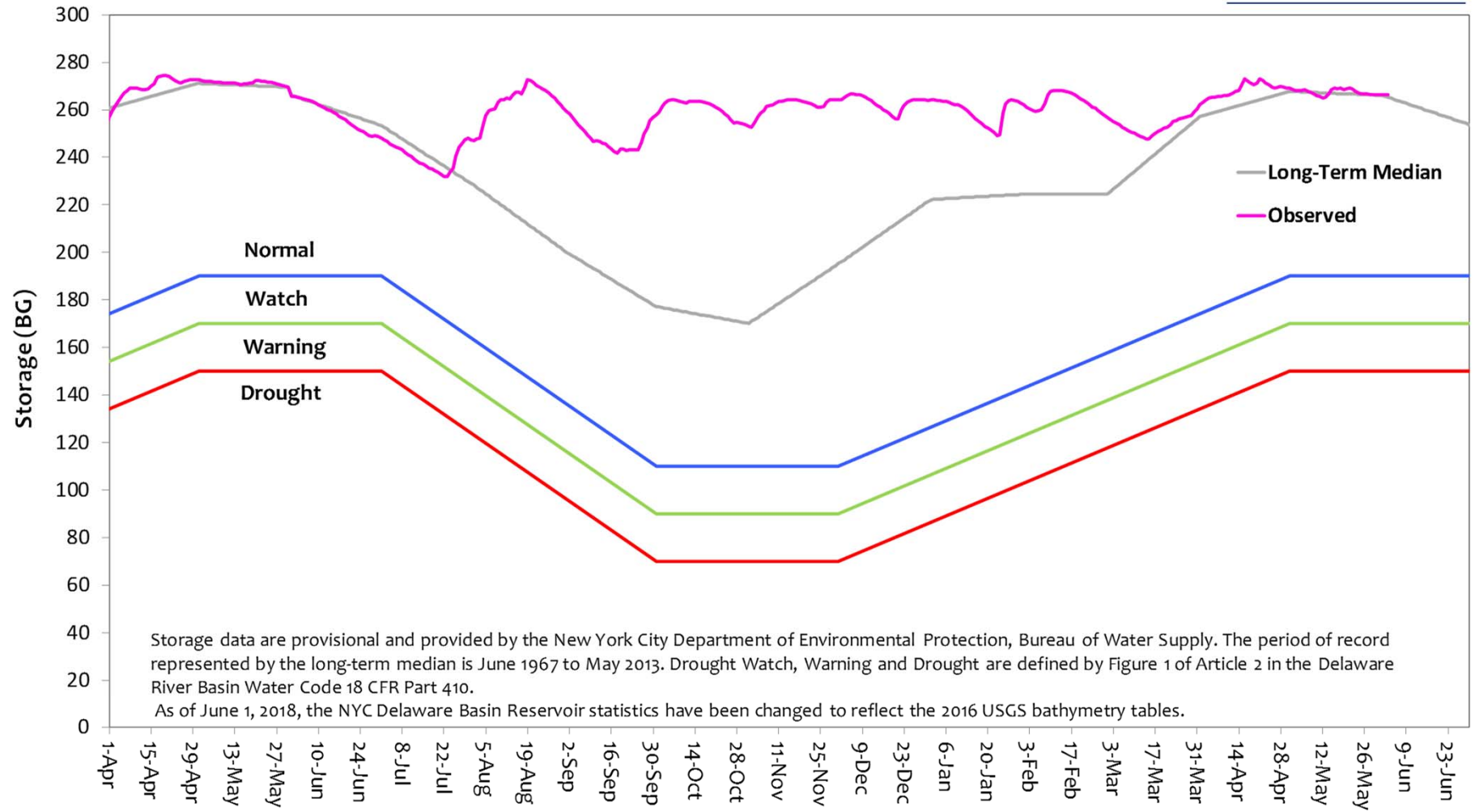


Lower Basin Storage



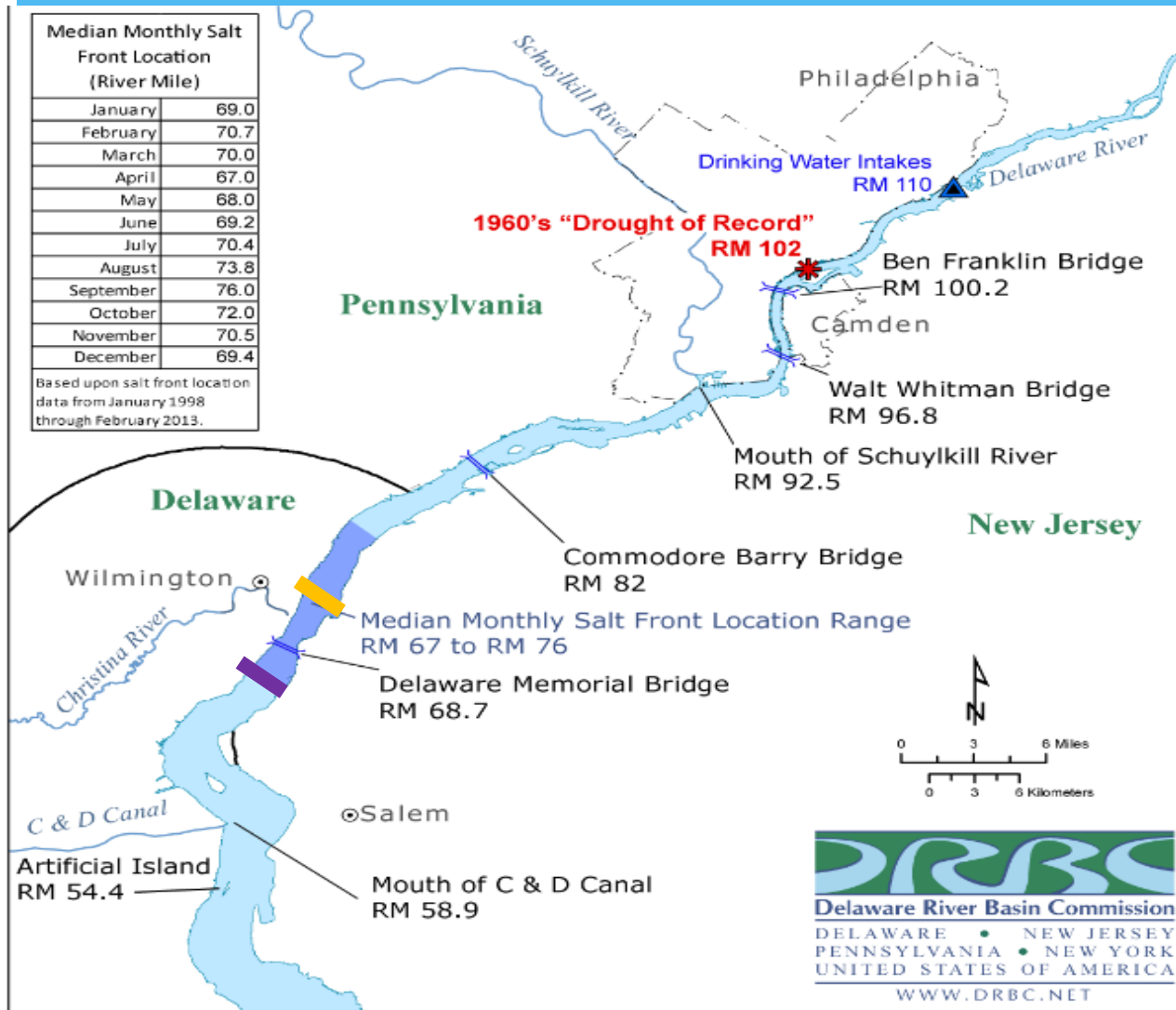
New York City Delaware River Basin Storage

6/10/2019



2018-19						
Useable Storage	Cannonsville	Pepacton	Neversink	Total	BG Above Drought Watch =	BG Above Daily Storage Median =
BG	92.1	138.9	34.5	265.5	76	3
%	98.6%	99.7%	99.3%	99.3%	BG Above Drought Warning = 96	BG Above One Year Ago = 3
					BG Above Drought = 116	

Salt Front



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

Current R.M. 62

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.

6/12/2019 - Estimated

Photo by Justin Curtis



Groundwater

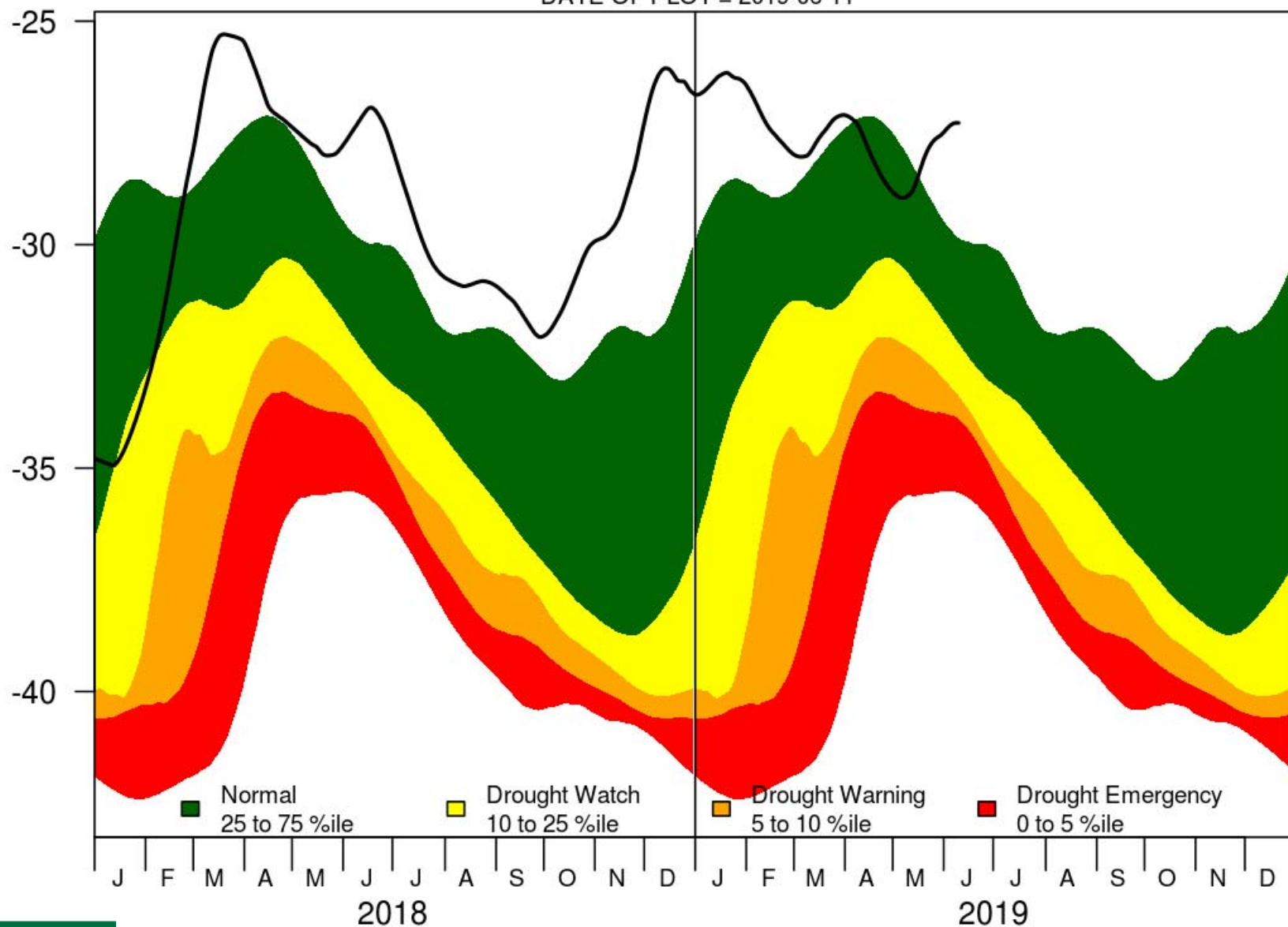
County	State	Agency	Well ID	Initial Year	Indicator 3/2019	Indicator 6/2019
Sullivan	NY	USGS	SV 535	2001	Normal	Above Normal
Wayne	PA	USGS	WN 64	1967	Above Normal	Above Normal
Monroe	PA	USGS	MO 190	1967	Normal	Normal
Carbon	PA	USGS	CB 104	1969	Normal	Above Normal
Schuylkill	PA	USGS	SC 296	1975	Normal	Above Normal
Lehigh	PA	USGS	LE 644	1971	Above Normal	Above Normal
Lebanon	PA	USGS	LB 372	1973	Above Normal	Above Normal
Bucks	PA	USGS	BK 1020	1975	Above Normal	Above Normal
Chester	PA	USGS	CH 10	1966	Above Normal	Above Normal
Delaware	PA	USGS	DE 723	1983	Above Normal	Above Normal
Burlington	NJ	USGS	050689	1955	Above Normal	Normal
Cumberland	NJ	USGS	110042	1972	Above Normal	Above Normal
New Castle	DE	Delaware GS	Db24-18	1993	Above Normal	NA

Ten of 13 Indicator Wells are Above Normal
Two are below Normal

BK 1020 BUCKS COUNTY OBSERVATION WELL

PROVISIONAL DATA - SUBJECT TO CHANGE
RECORD START = 1975-09-04 NUMBER OF YEARS = 41
DATE OF PLOT = 2019-06-11

30-Day Moving Average Depth to Water, in Feet Below Land Surface



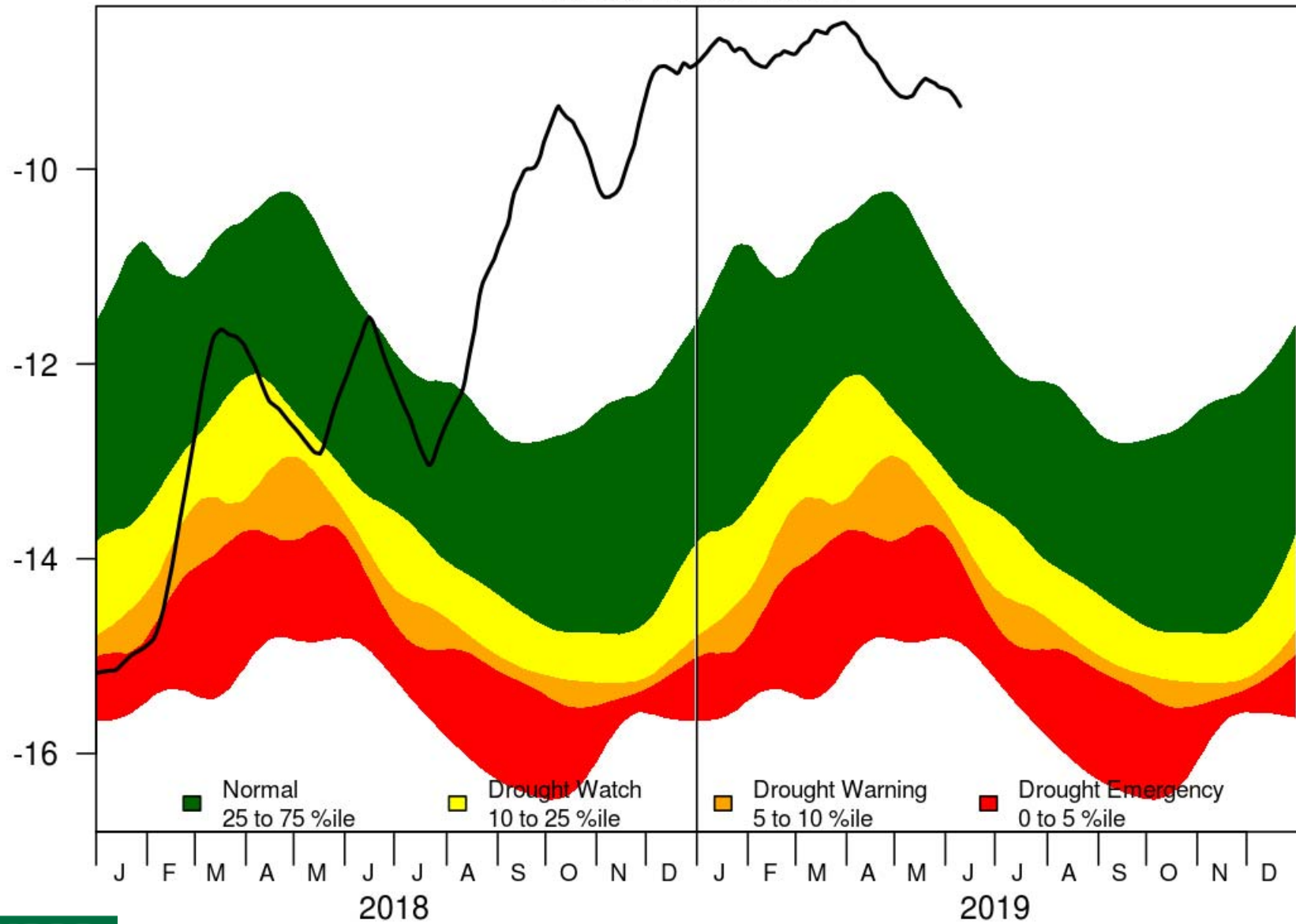
CH 10 CHESTER COUNTY OBSERVATION WELL

PROVISIONAL DATA - SUBJECT TO CHANGE

RECORD START = 1966-02-15 NUMBER OF YEARS = 49

DATE OF PLOT = 2019-06-11

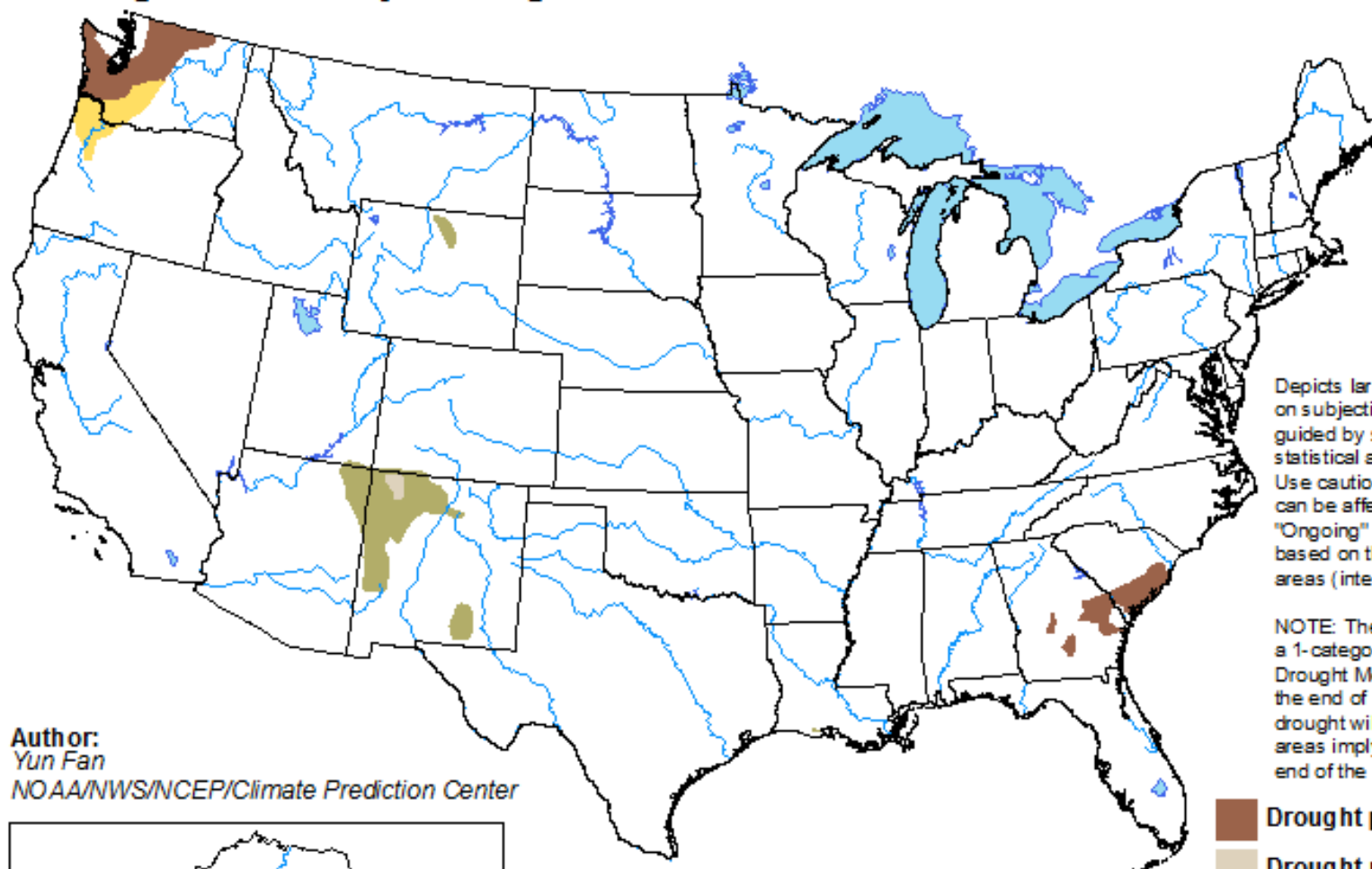
30-Day Moving Average Depth to Water, in Feet Below Land Surface



U.S. Seasonal Drought Outlook





Drought Tendency During the Valid Period

Valid for May 16 - August 31, 2019
Released May 16

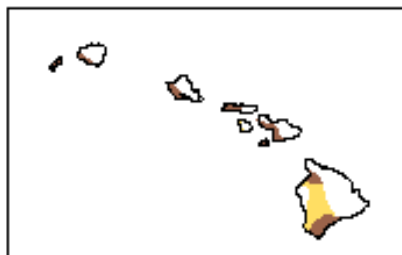


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

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

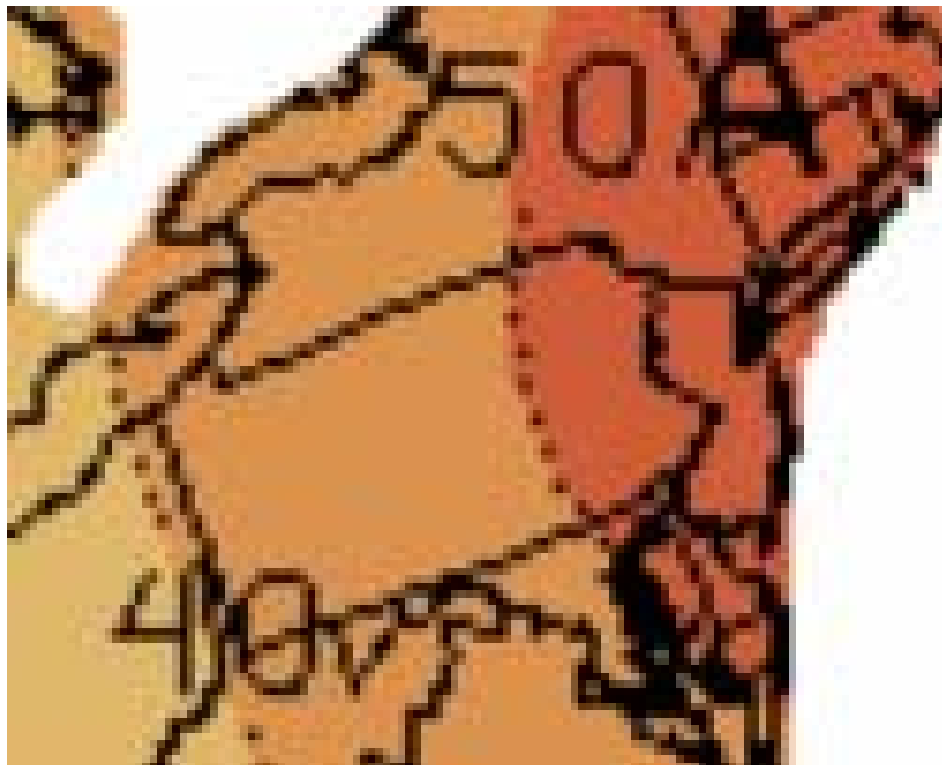
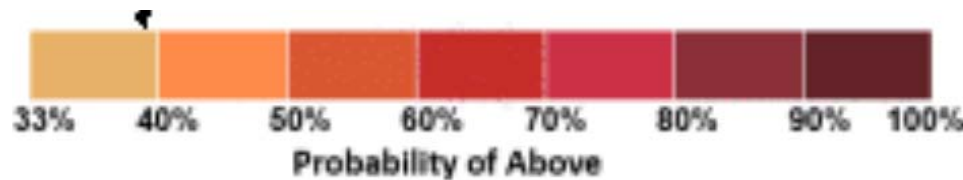
Author:
Yun Fan
NOAA/NWS/NCEP/Climate Prediction Center



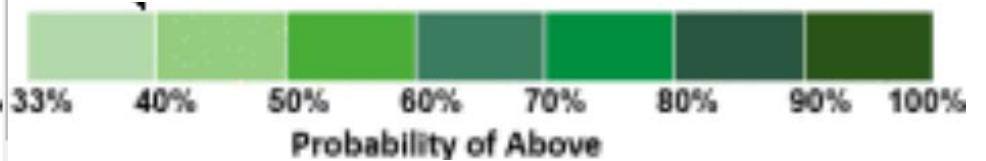
<http://go.usa.gov/3eZ73>

NOAA 3-Month Outlook

Temperature



Precipitation



A photograph of a waterfall with two chairs in the foreground. The waterfall is cascading over a dark, rocky surface. In the foreground, two wooden chairs are positioned on a wet, stone surface. The chair on the left is light-colored and appears to be a rocking chair. The chair on the right is dark-colored and has a high back. The water is splashing around the chairs, creating a misty atmosphere. The overall scene is serene and evocative of a peaceful summer day.

Have a safe and happy summer!

**Photo by Carl LaVo
D&R Canal Spillway,
Lambertville, NJ**