Delaware River Basin Commission

Hydrologic Conditions

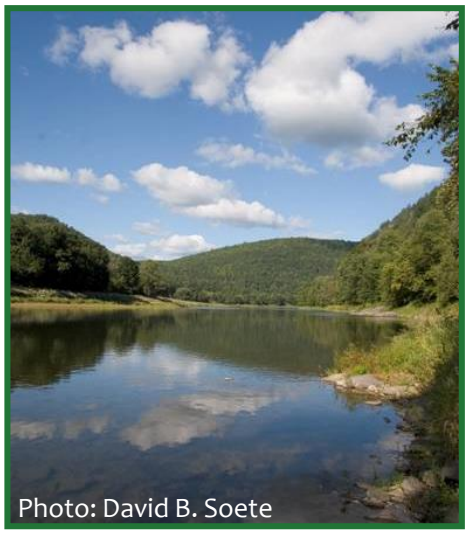


Photo: David B. Soete

Hernán Quinodoz, Ph.D.

WMAC

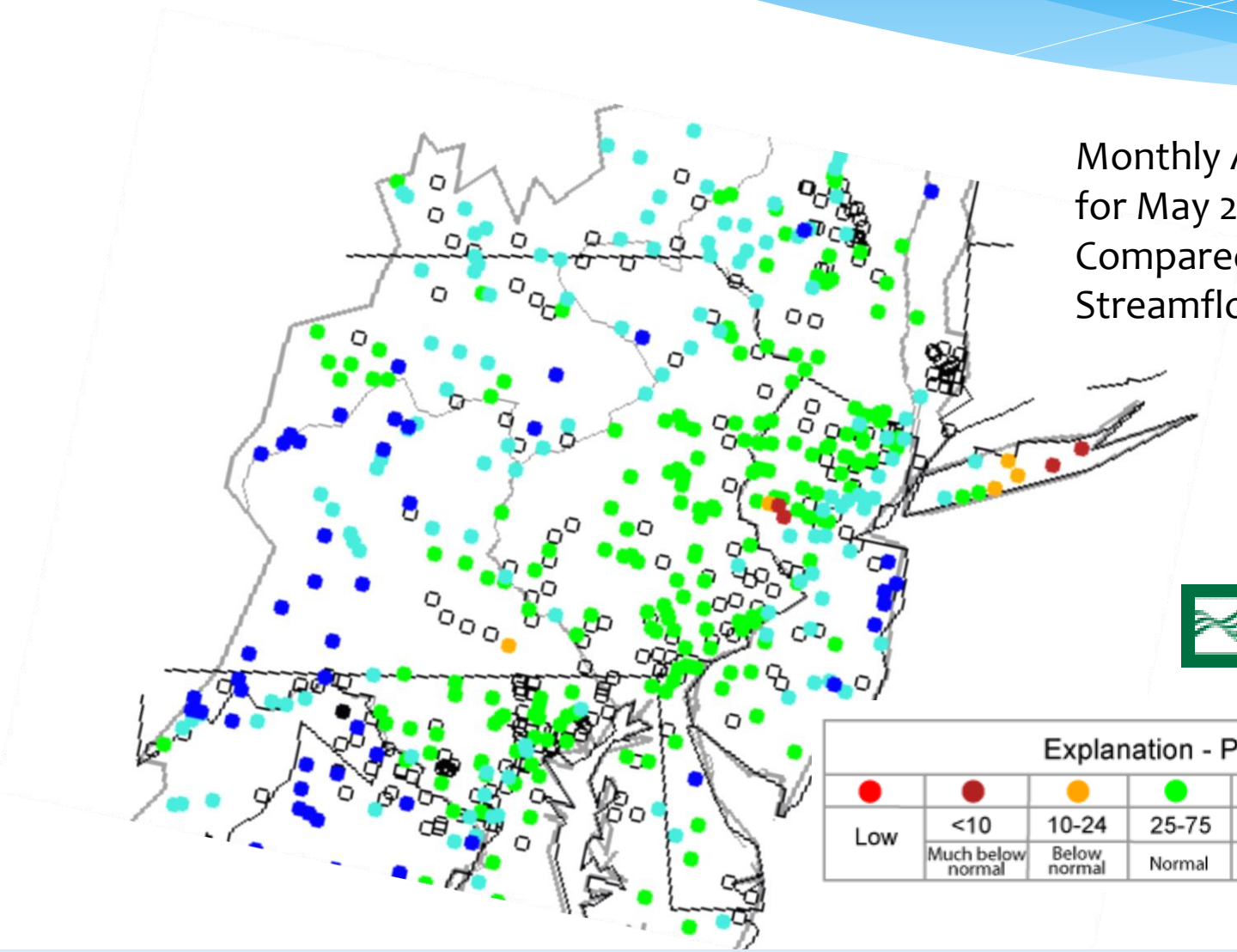
June 22, 2017

Delaware River Basin Commission
DELAWARE • NEW JERSEY
PENNSYLVANIA • NEW YORK
UNITED STATES OF AMERICA

Precipitation

	2015	2016	Jan. 1- June 20, 2017
Above Montague	43.34” (-1.95”)	38.09” (-7.20”)	22.75” (+2.74”)
Above Trenton	44.06” (-3.93”)	39.20” (-8.80”)	21.90” (+0.89”)
Wilmington	48.74” (+5.66”)	40.78” (-2.30”)	20.21” (+0.69”)

Streamflow



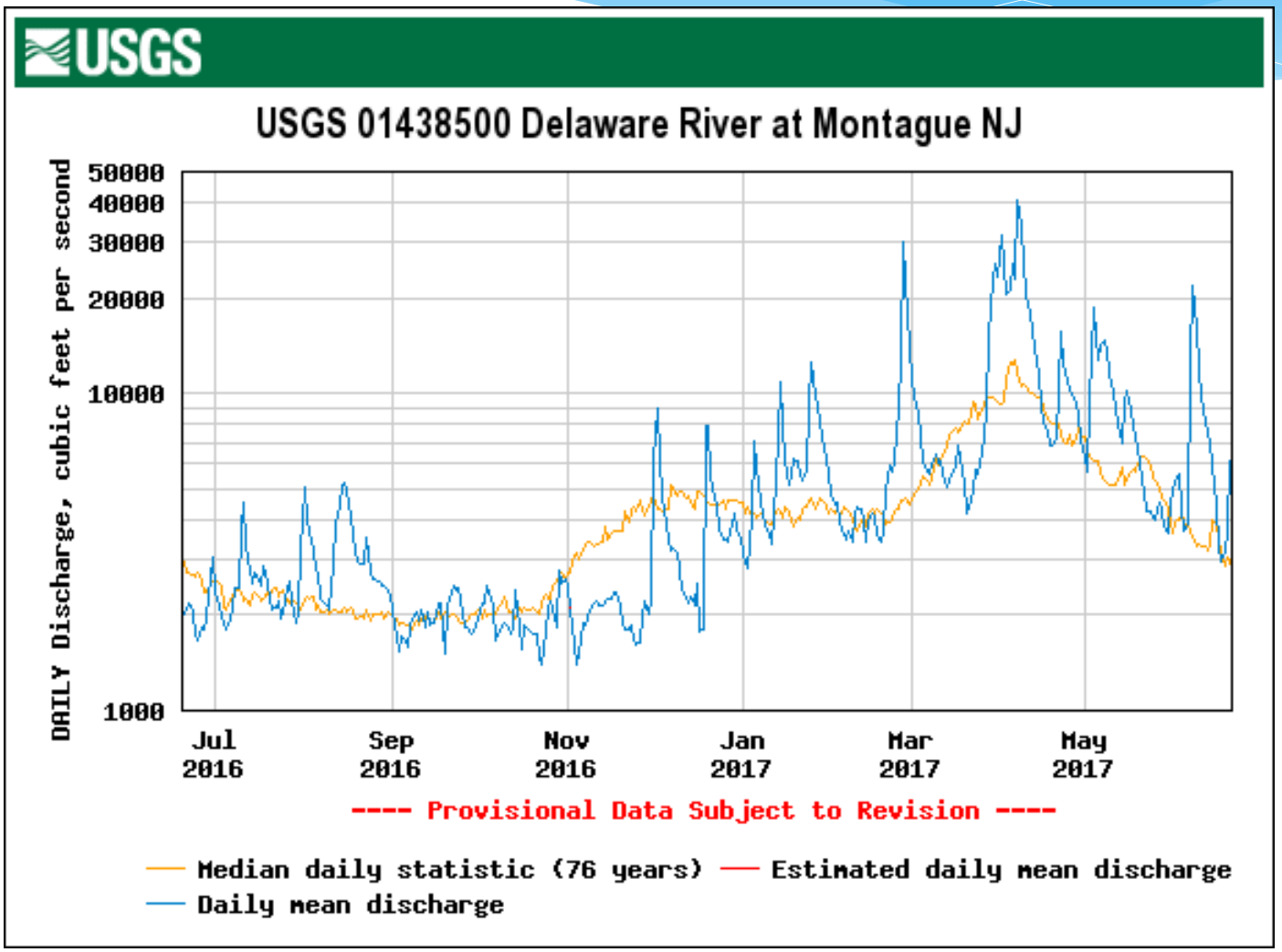
Monthly Average Streamflow
for May 2017
Compared to Historical
Streamflow for the Month

USGS

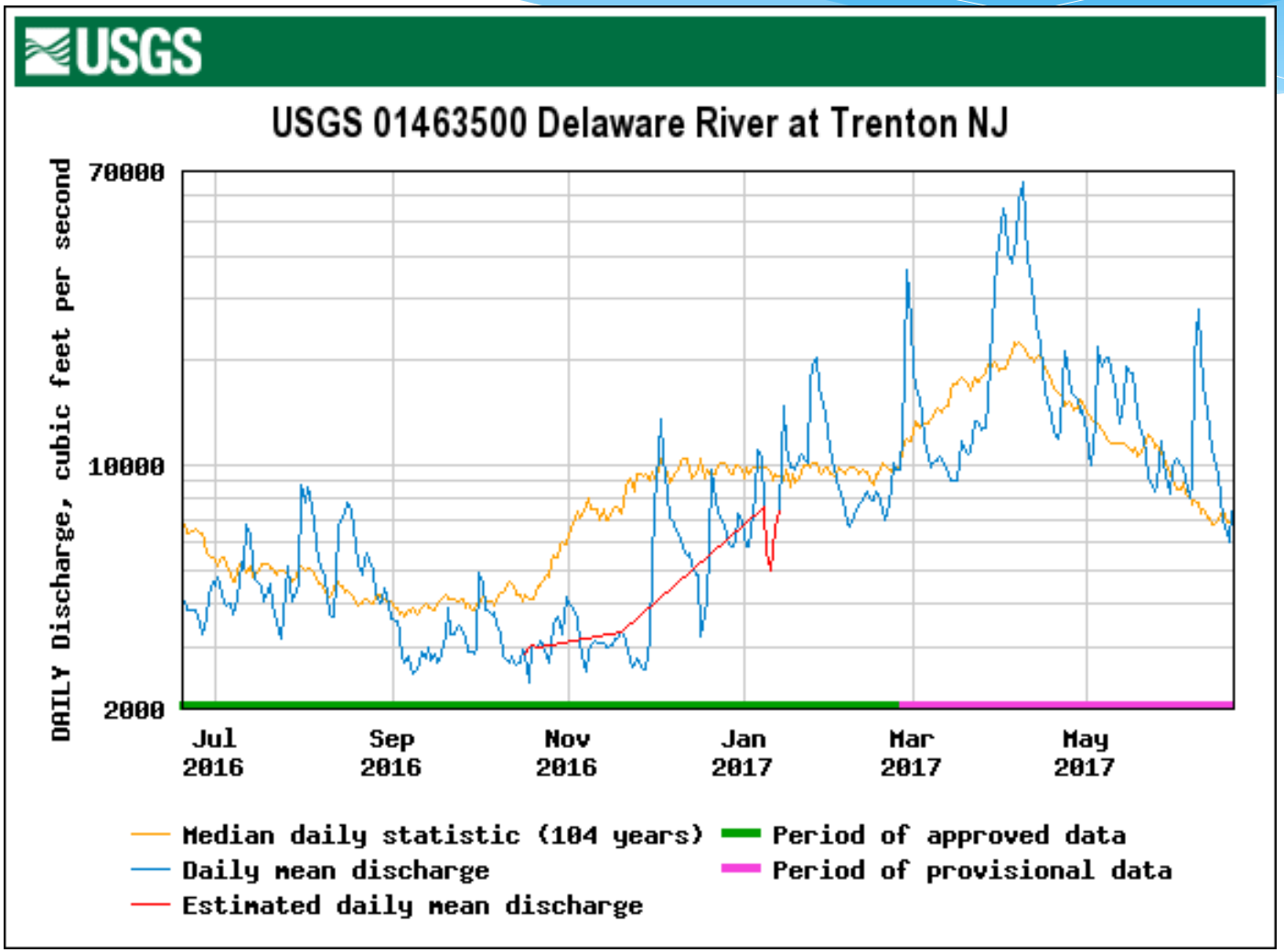
Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Delaware River Basin Commission
DELAWARE • NEW JERSEY
PENNSYLVANIA • NEW YORK
UNITED STATES OF AMERICA

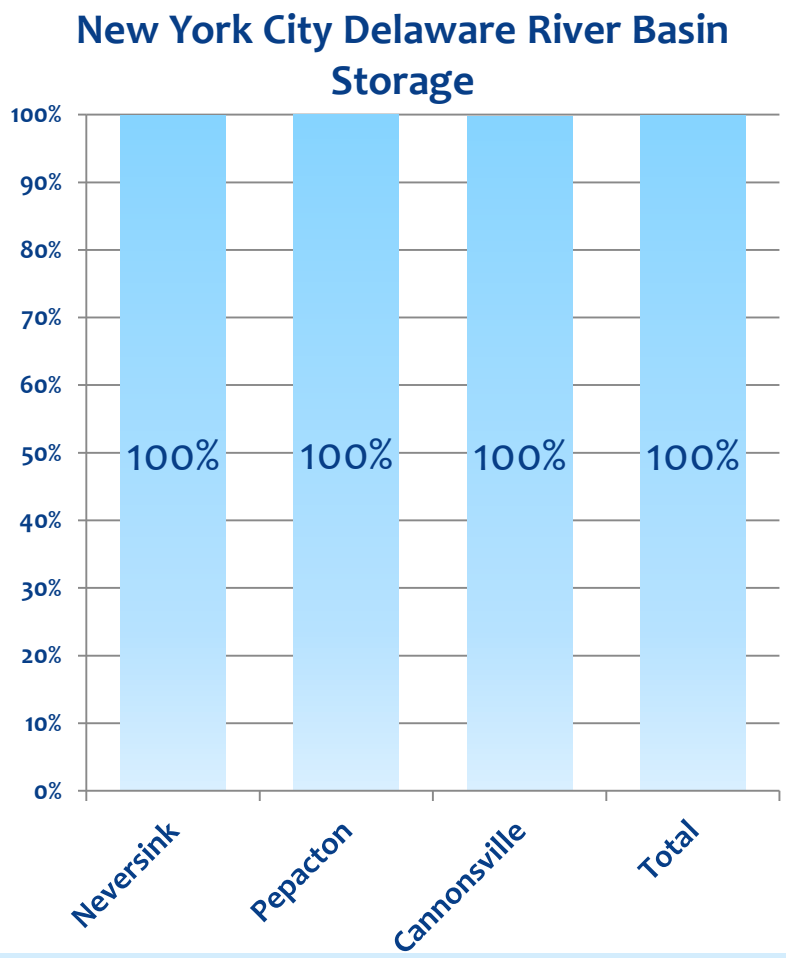
Streamflow

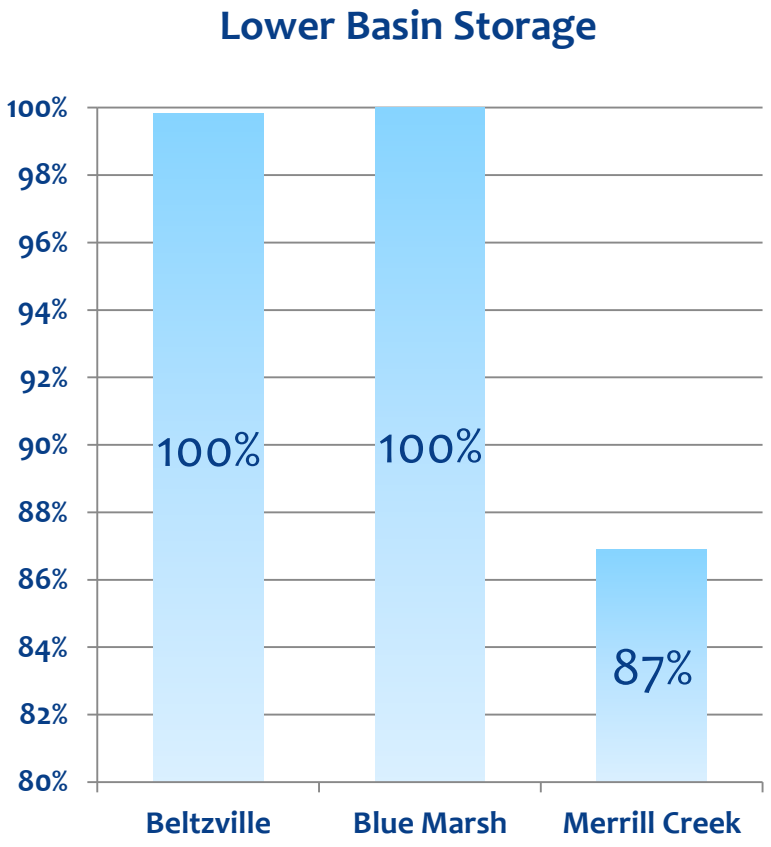


Streamflow



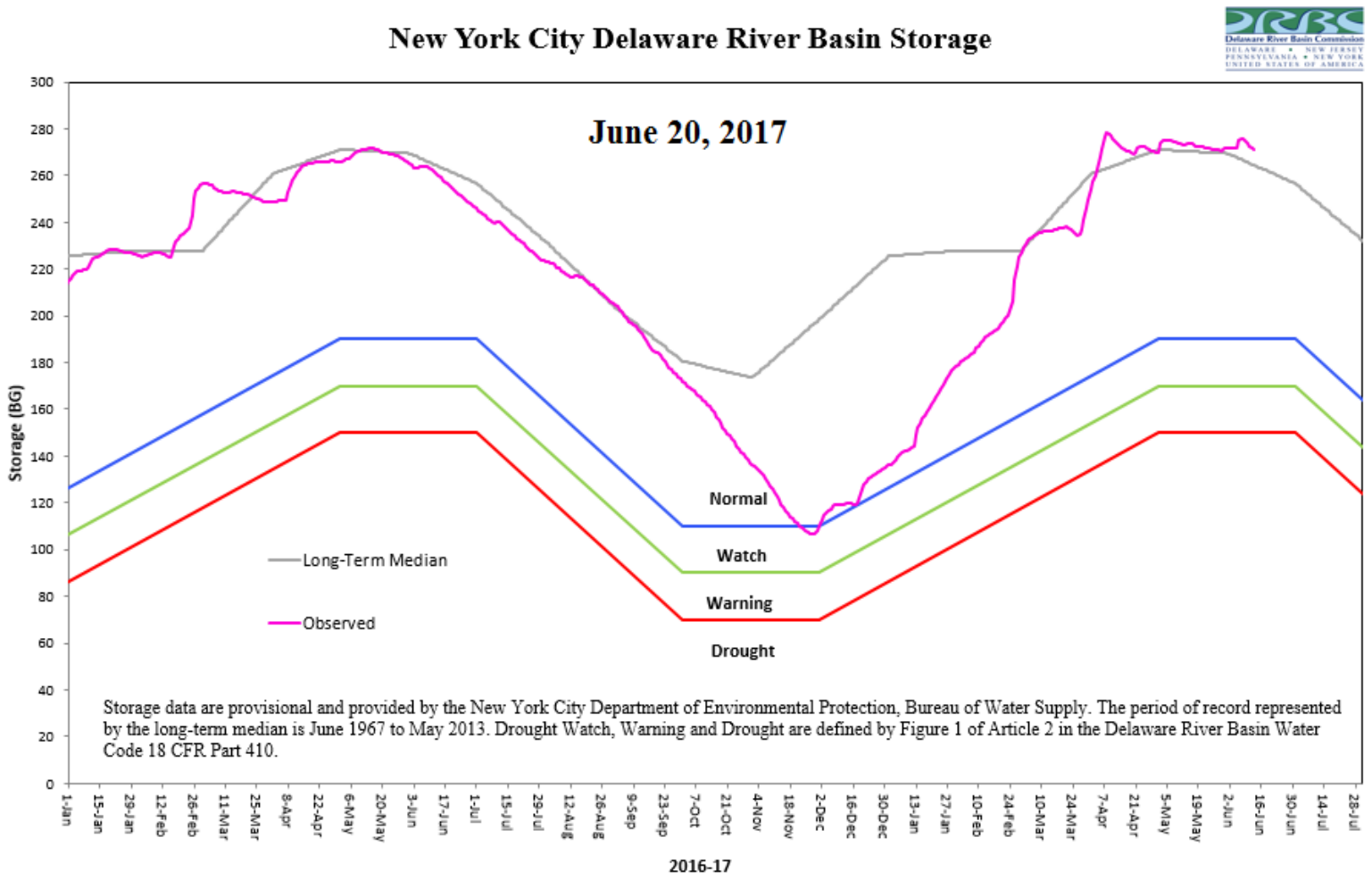
Basin Storage





Delaware River Basin Commission
DELAWARE • NEW JERSEY
PENNSYLVANIA • NEW YORK
UNITED STATES OF AMERICA

Basin Storage



Useable Storage	Cannonsville	Pepacton	Neversink	Total
BG	95.2	140.4	35.1	270.6
%	99.5%	100.1%	100.4%	99.9%

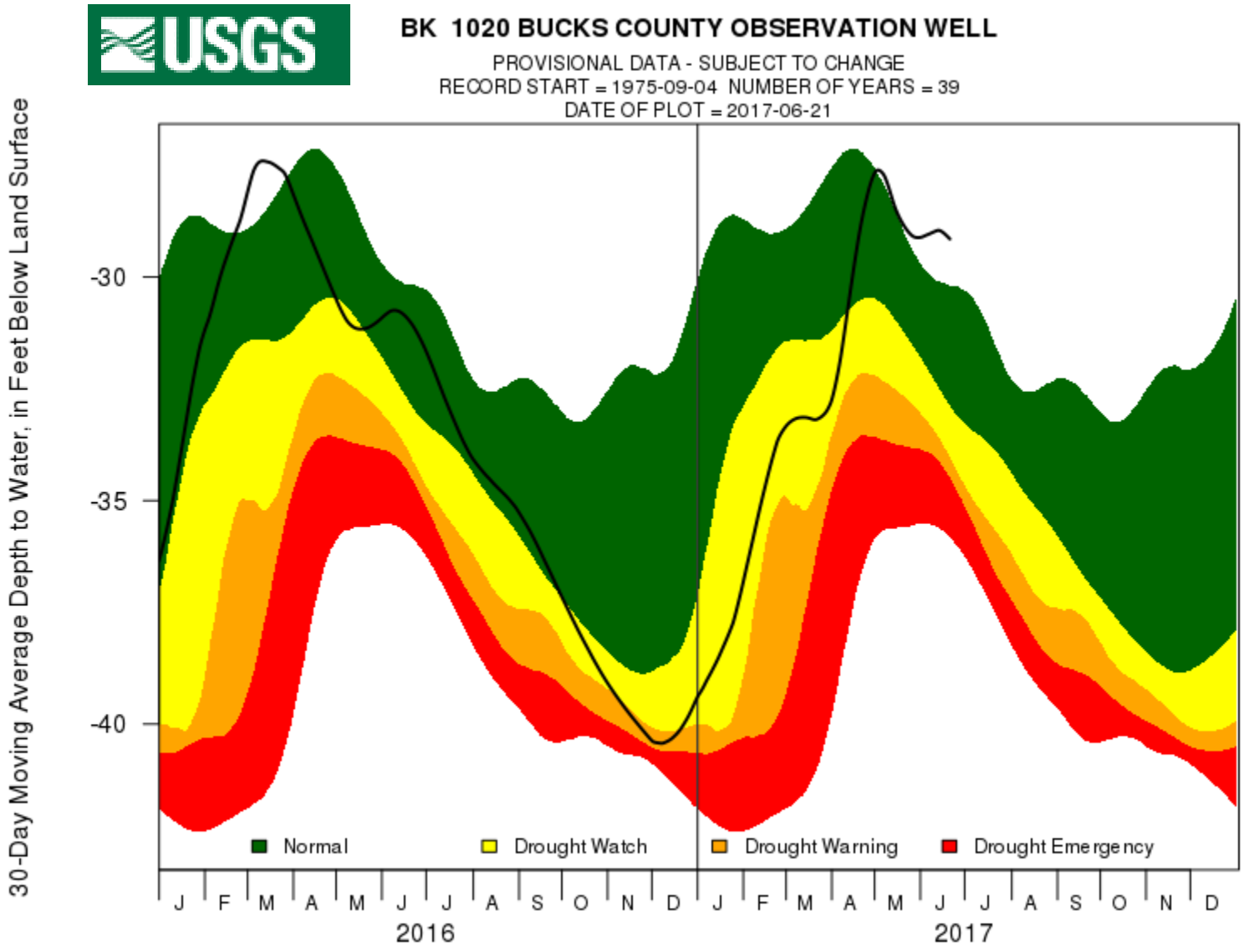
BG Above Drought Watch =	81
BG Above Drought Warning =	101
BG Above Drought =	121

BG Above Daily Storage Median =	9
BG Above One Year Ago =	16

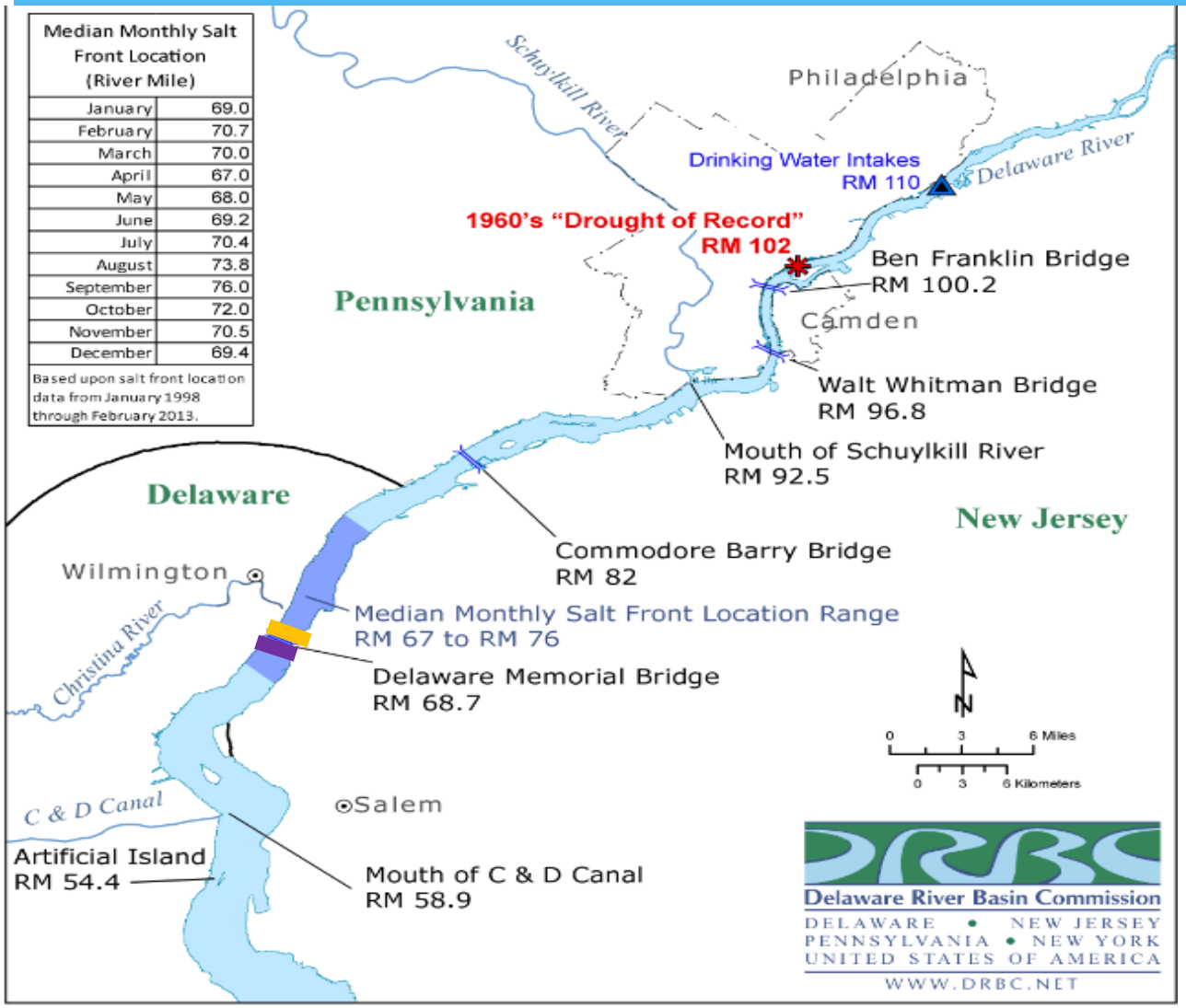
Groundwater

COUNTY	STATE	AGENCY DATA	WELL ID	YEAR RECORD BEGINS	INDICATOR STATUS AS OF MARCH 14, 2017	INDICATOR STATUS AS OF JUNE 21, 2017
Sullivan	NY	USGS	Sv 535	2001	Normal	Normal
Wayne	PA	USGS	WN 64	1967	Normal	Normal
Monroe	PA	USGS	MO 190	1967	Normal	Normal
Carbon	PA	USGS	CB 104	1969	Normal	Normal
Schuylkill	PA	USGS	SC 296	1975	Normal	Normal
Lehigh	PA	USGS	LE 644	1971	Drought Warning	Drought Watch
Lebanon	PA	USGS	LB 372	1973	Drought Emergency	Normal
Bucks	PA	USGS	BK 1020	1975	Drought Watch	Above Normal
Chester	PA	USGS	CH 10	1966	Drought Emergency	Drought Watch
Delaware	PA	USGS	DE 723	1983	Drought Emergency	Drought Watch
Burlington	NJ	USGS	050689	1955	Below Normal	Below Normal
Cumberland	NJ	USGS	110042	1972	Below Normal	Below Normal
New Castle	DE	Delaware GS	Db24-18	1993	Below Normal	Below Normal

Groundwater



Salt Front



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

Current R.M. 68

Normal R.M. 69

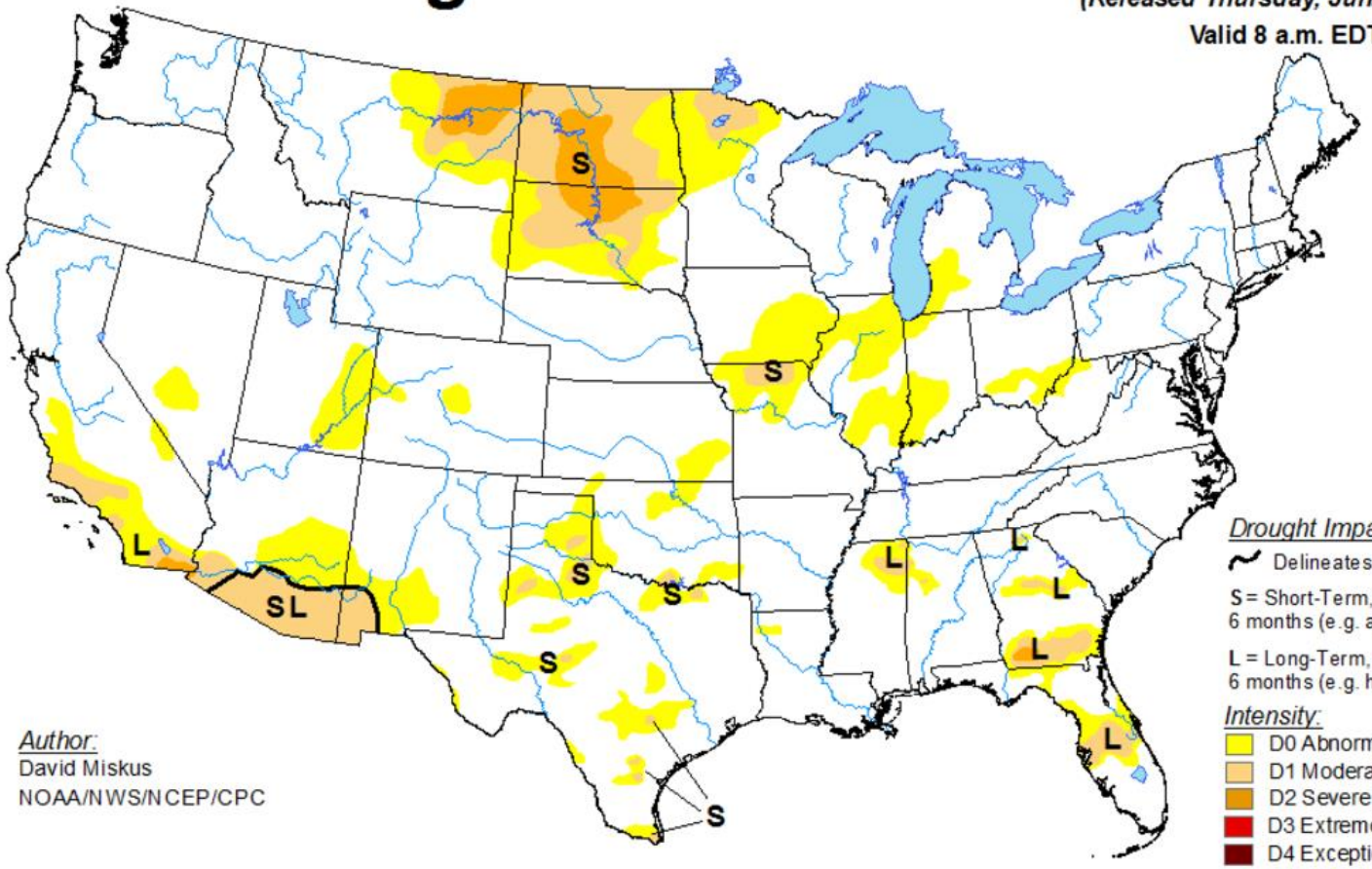
The Flow Objective at Trenton was designed to repel salinity for the protection of drinking water treatment facilities and industrial intakes.

U.S. Drought Monitor

June 13, 2017

(Released Thursday, Jun. 15, 2017)

Valid 8 a.m. EDT



Author:
David Miskus
NOAA/NWS/NCEP/CPC

Drought Impact Types:

Delineates dominant impacts

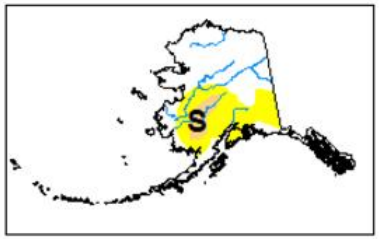
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)

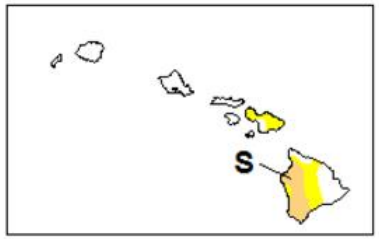
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

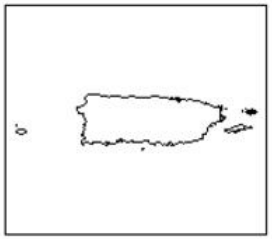
Intensity:

- 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.







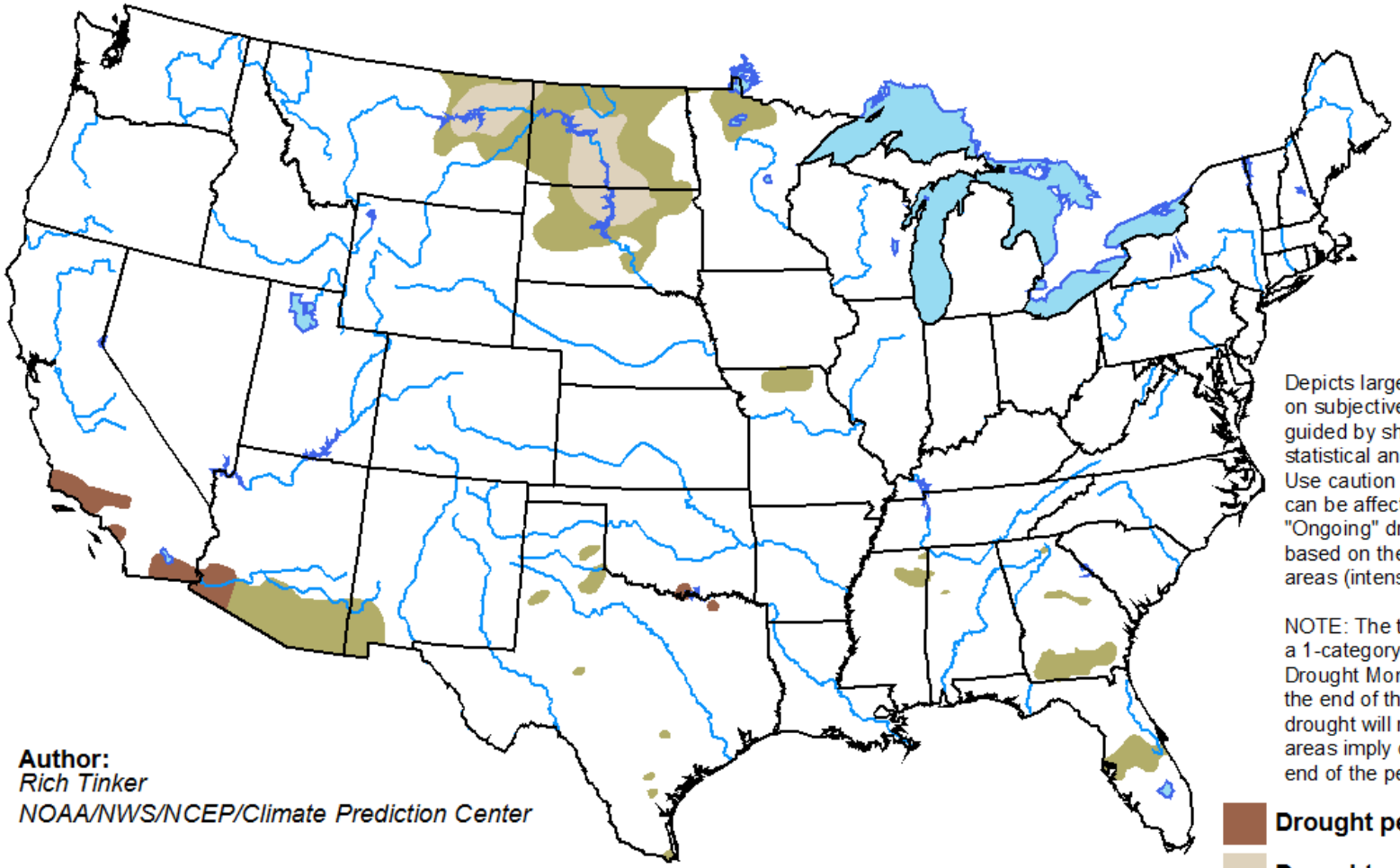
USDA NDMC NOAA

http://droughtmonitor.unl.edu/

U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for June 15 - September 30, 2017
Released June 15, 2017



Author:
Rich Tinker
NOAA/NWS/NCEP/Climate Prediction Center

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).

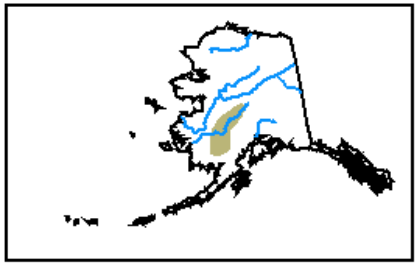
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

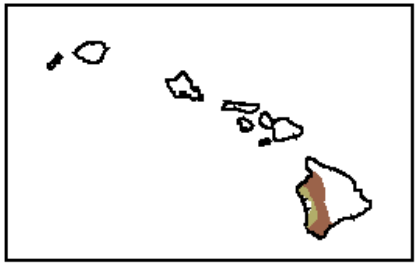
Drought persists

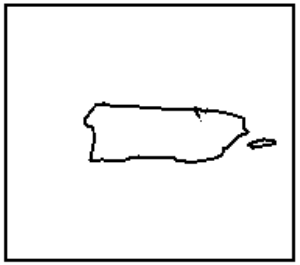
Drought remains but improves

Drought removal likely

Drought development likely







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