

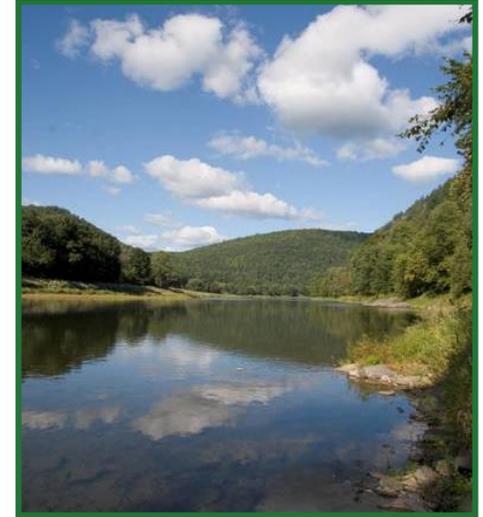
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Delaware River Basin Commission

Hydrologic Conditions

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

October 24, 2017



Delaware River Basin Commission

DELAWARE • NEW JERSEY
PENNSYLVANIA • NEW YORK
UNITED STATES OF AMERICA

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Precipitation

	2015	2016	January- October 22, 2017
Above Montague	43.34" (-1.95")	38.09" (-7.20")	38.68" (+1.73")
Above Trenton	44.06" (-3.93")	39.20" (-8.80")	38.90" (-0.19")
Wilmington	48.74" (+5.66")	40.78" (-2.30")	34.69" (-0.82")

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Groundwater

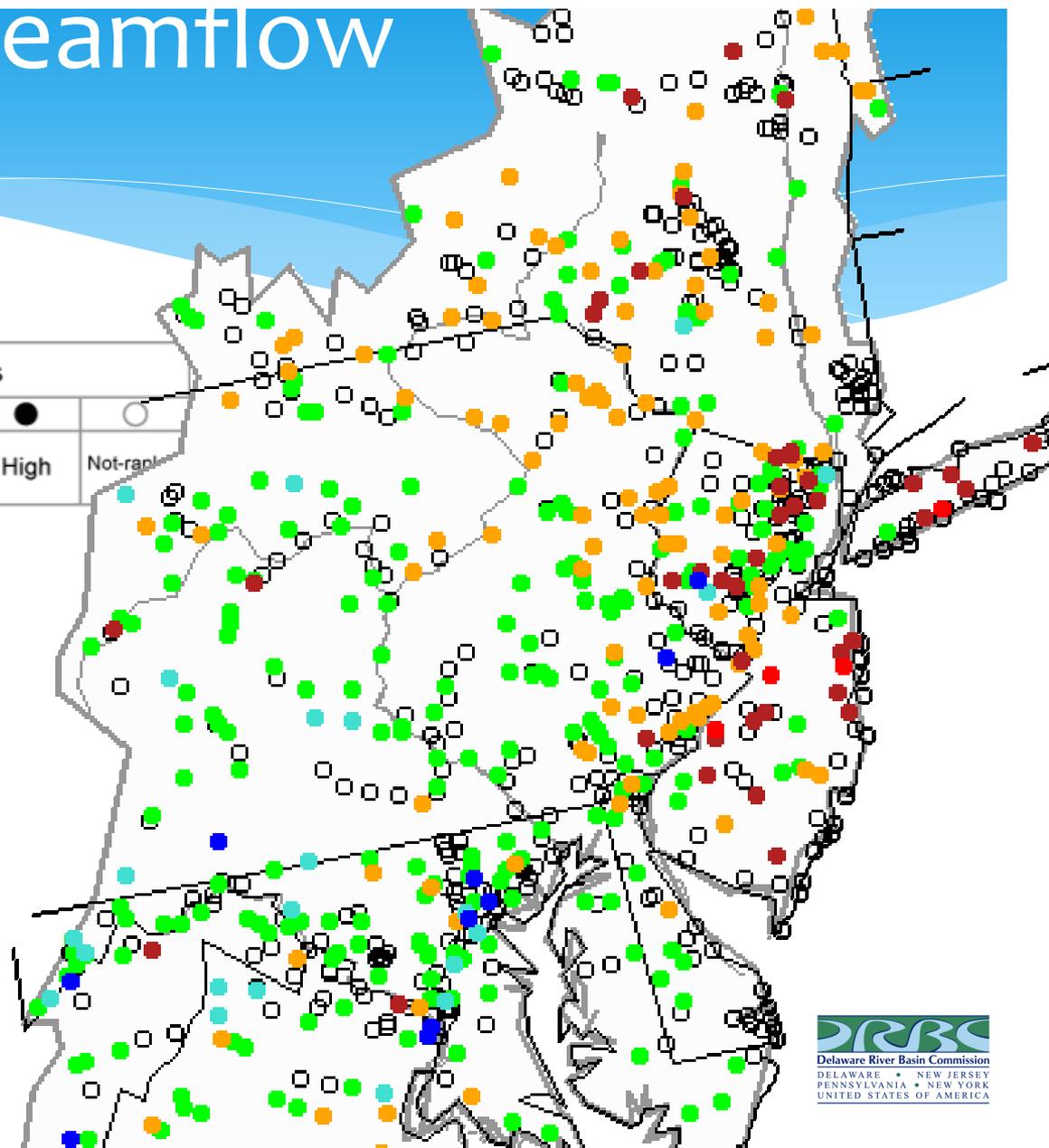
COUNTY	STATE	AGENCY DATA	WELL ID	YEAR RECORD BEGINS	INDICATOR STATUS AS OF SEPTEMBER 12, 2017	INDICATOR STATUS AS OF OCTOBER 23, 2017
Sullivan	NY	USGS	Sv 535	2001	Normal	Below Normal
Wayne	PA	USGS	WN 64	1967	Above Normal	Normal
Monroe	PA	USGS	MO 190	1967	Normal	Normal
Carbon	PA	USGS	CB 104	1969	Normal	Normal
Schuylkill	PA	USGS	SC 296	1975	Normal	Normal
Lehigh	PA	USGS	LE 644	1971	Above Normal	Above Normal
Lebanon	PA	USGS	LB 372	1973	Above Normal	Above Normal
Bucks	PA	USGS	BK 1020	1975	Above Normal	Normal
Chester	PA	USGS	CH 10	1966	Drought Watch	Drought Watch
Delaware	PA	USGS	DE 723	1983	Normal	Drought Watch
Burlington	NJ	USGS	050689	1955	Below Normal	Below Normal
Cumberland	NJ	USGS	110042	1972	Normal	Below Normal
New Castle	DE	Delaware GS	Db24-18	1993	Normal	Normal

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Streamflow

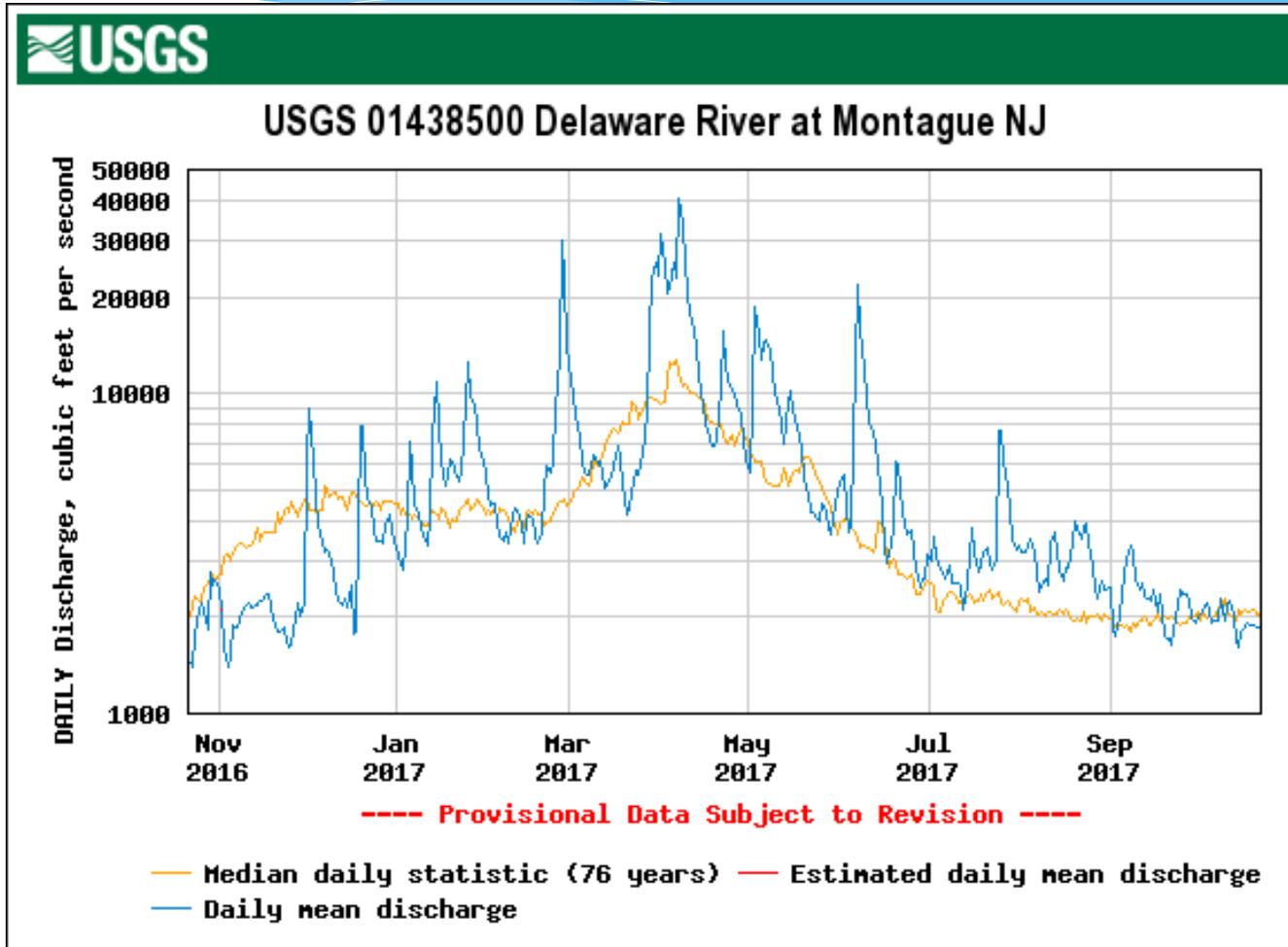
Explanation - Percentile classes							
							
Low	<10	10-24	25-75	76-90	>90	High	Not-rapid
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Tuesday
October 24, 2017,
8:30 am



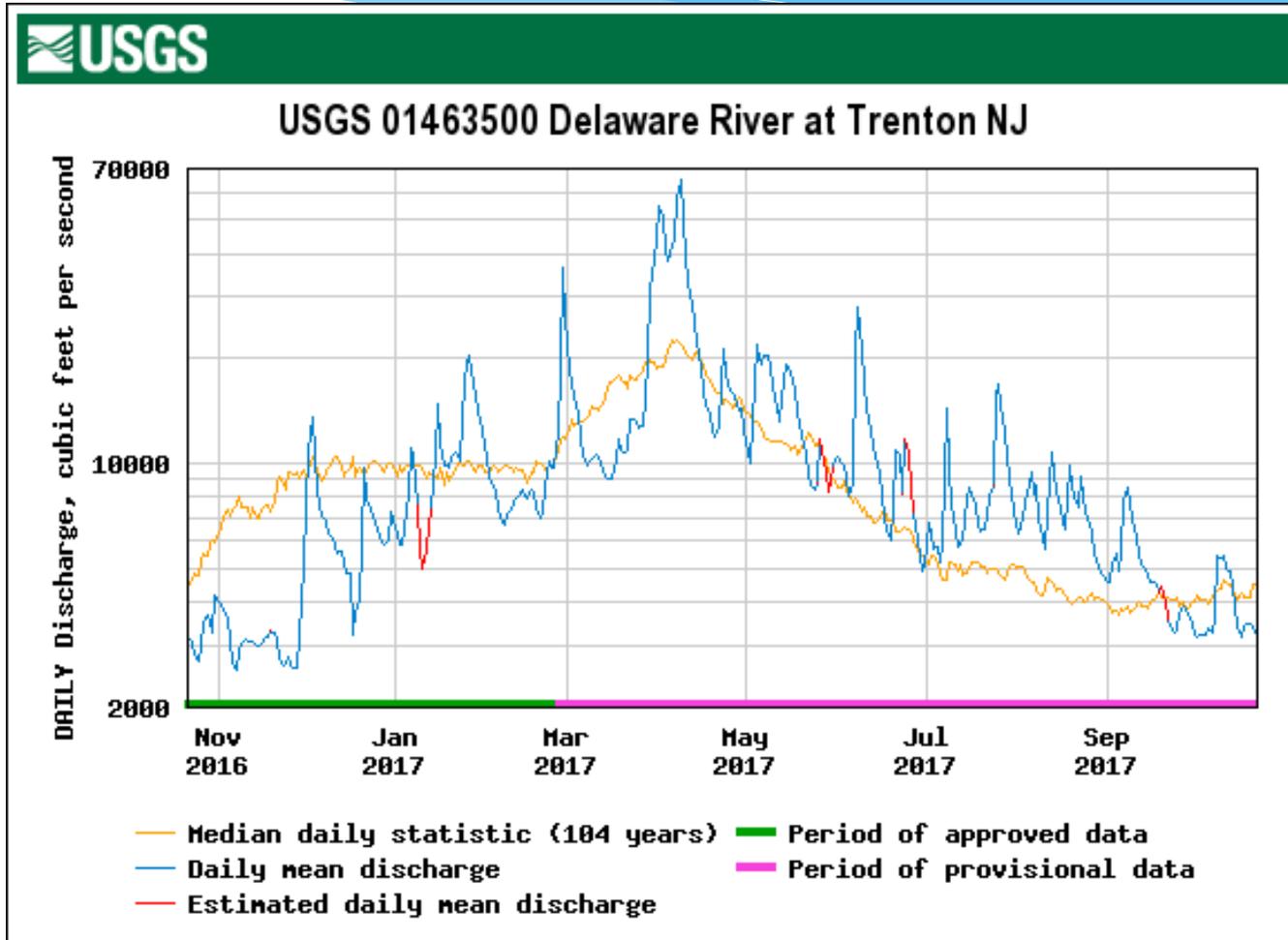
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Streamflow



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Streamflow

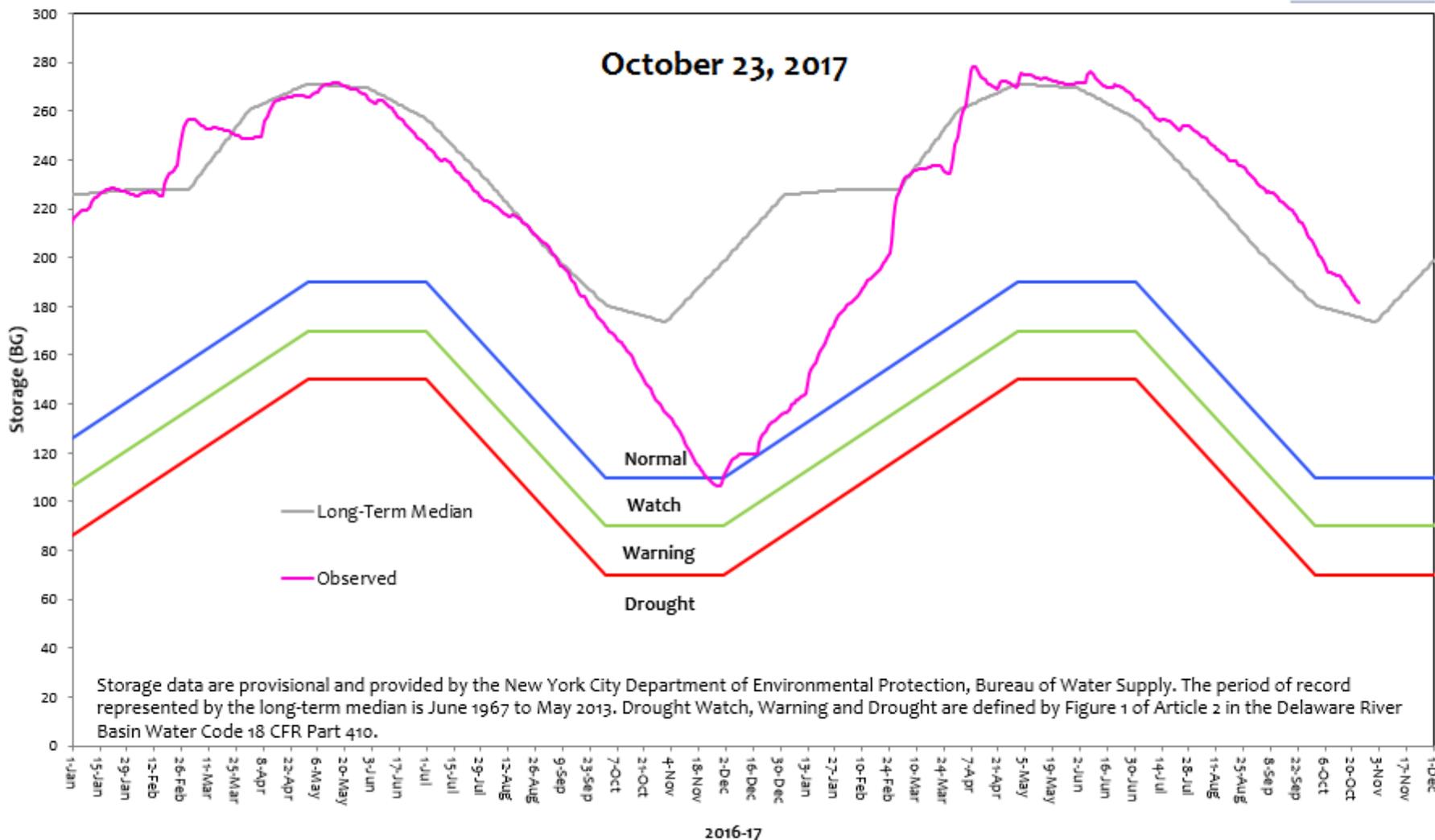


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New York City Delaware River Basin Storage

October 23, 2017



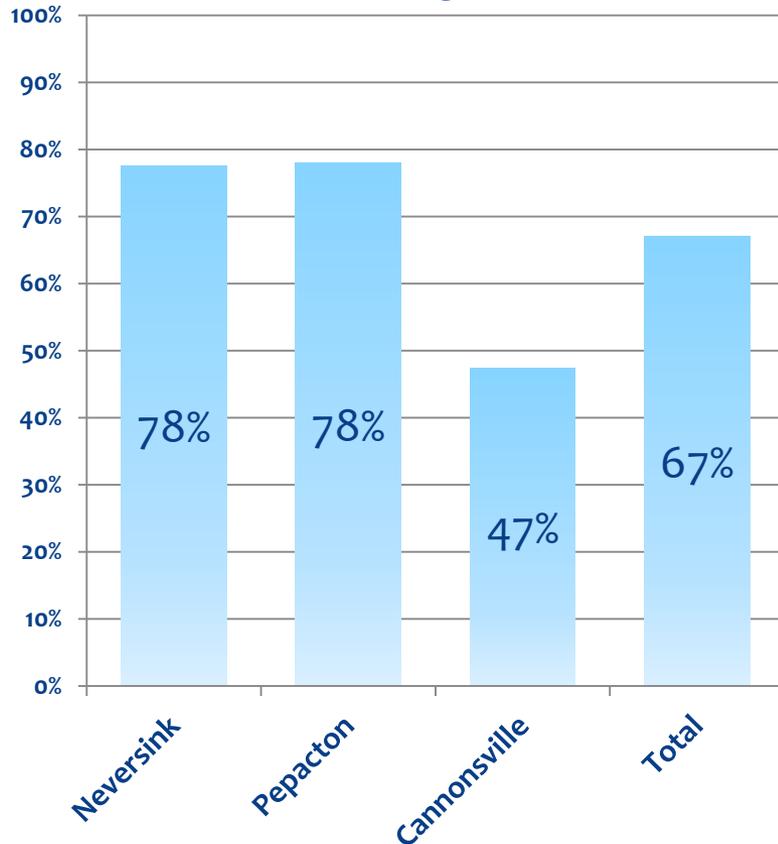
Storage data are provisional and provided by the New York City Department of Environmental Protection, Bureau of Water Supply. The period of record represented by the long-term median is June 1967 to May 2013. Drought Watch, Warning and Drought are defined by Figure 1 of Article 2 in the Delaware River Basin Water Code 18 CFR Part 410.

Useable Storage	Cannonsville	Pepacton	Neversink	Total	BG Above Drought Watch =	BG Above Daily Storage Median =
BG	45.4	109.1	27.1	181.6	72	6
%	47.4%	77.8%	77.6%	67.0%	92	34
					BG Above Drought Warning =	
					112	
					BG Above Drought =	
						BG Above One Year Ago =
						34

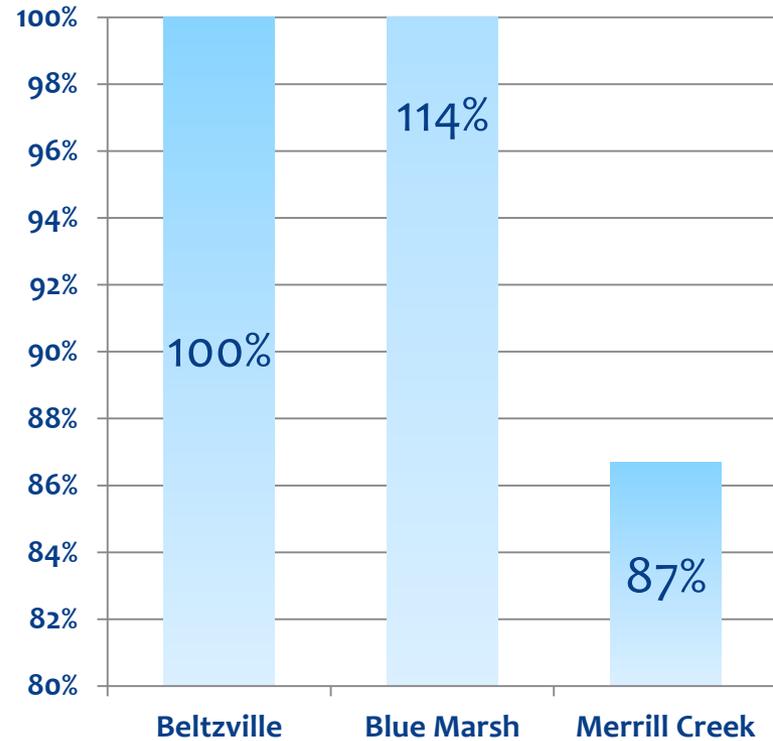
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Basin Storage

New York City Delaware River Basin Storage



Lower Basin Storage



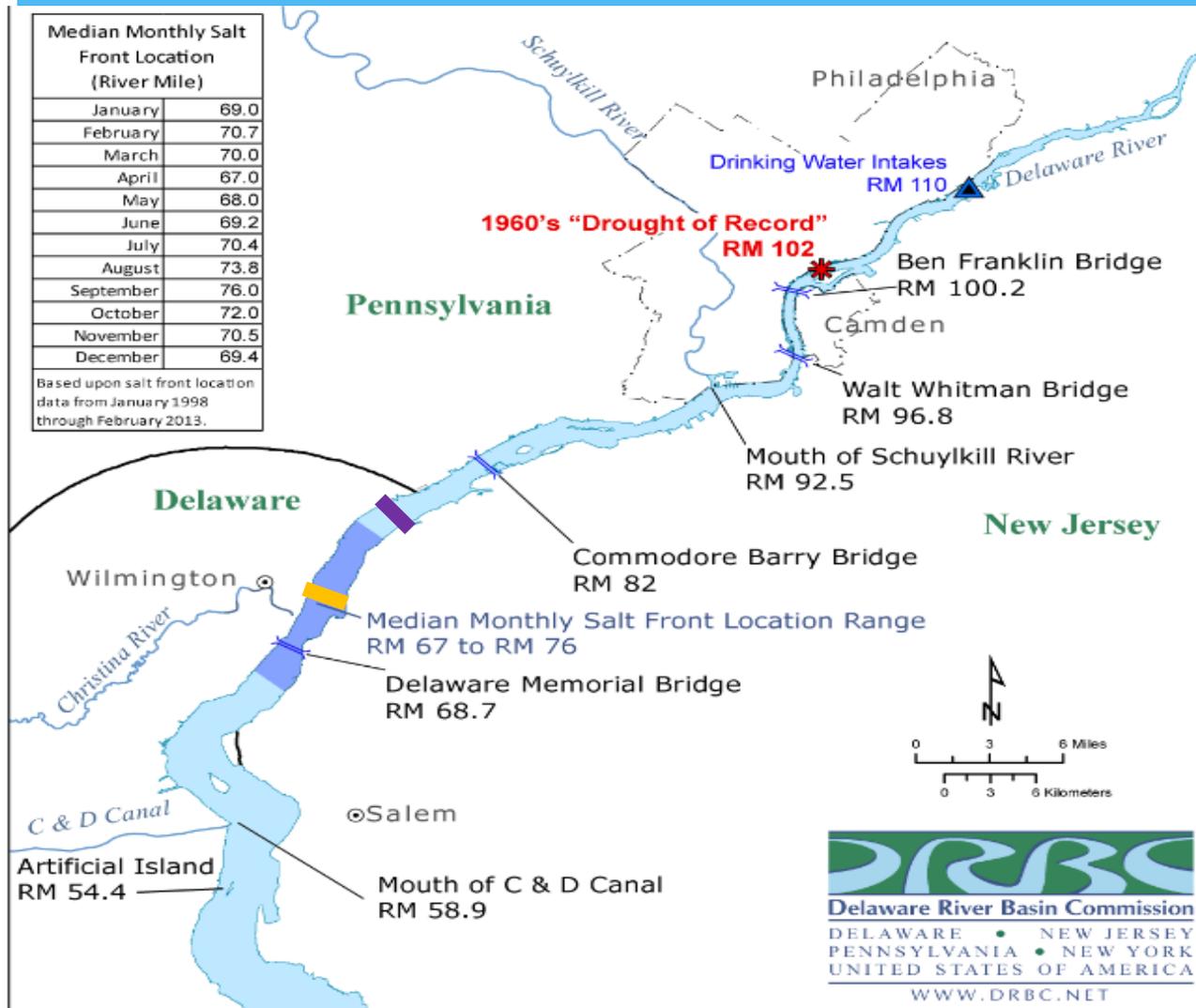
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Salt Front – October 19, 2017

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. 77

Normal R.M. 72

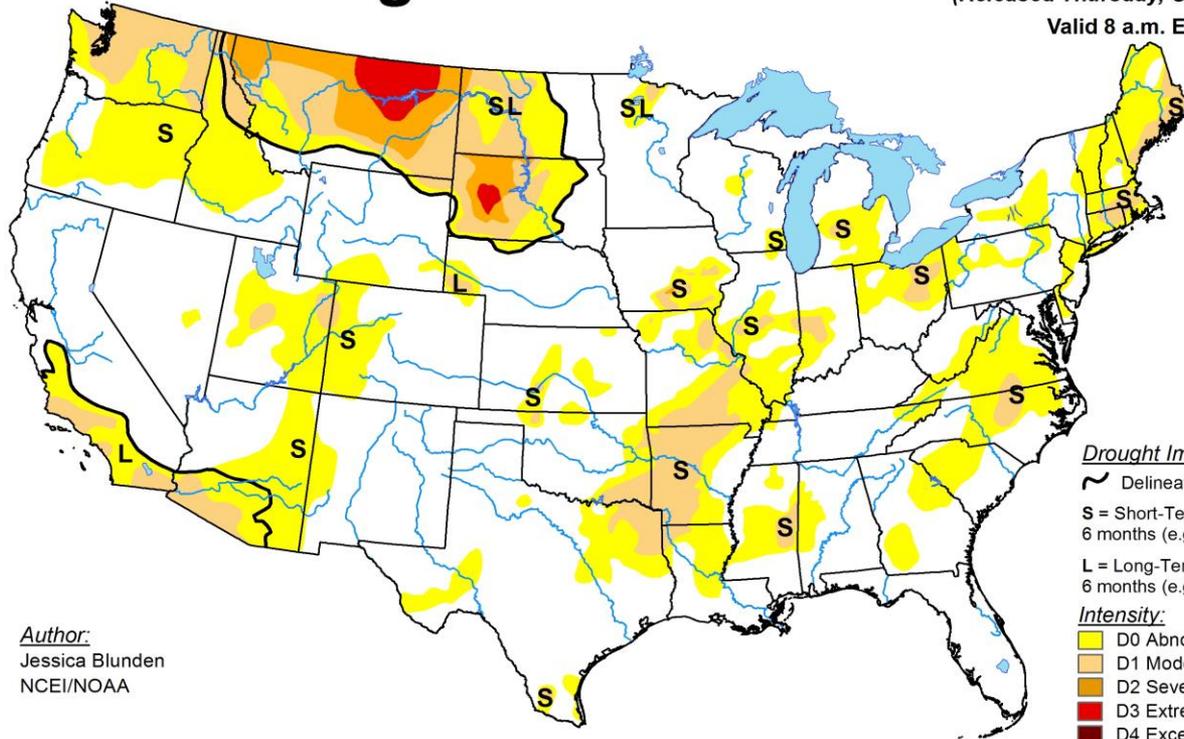
The Flow Objective at Trenton was designed to
repel salinity for the
protection of drinking
water treatment facilities
and industrial intakes.

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U.S. Drought Monitor

U.S. Drought Monitor

October 17, 2017
 (Released Thursday, Oct. 19, 2017)
 Valid 8 a.m. EDT

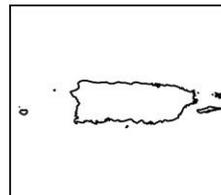
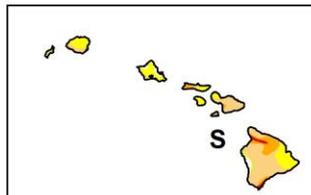


Author:
 Jessica Blunden
 NCEI/NOAA

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:
 Yellow: D0 Abnormally Dry
 Light Orange: D1 Moderate Drought
 Orange: D2 Severe Drought
 Red-Orange: D3 Extreme Drought
 Dark Red: D4 Exceptional Drought

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



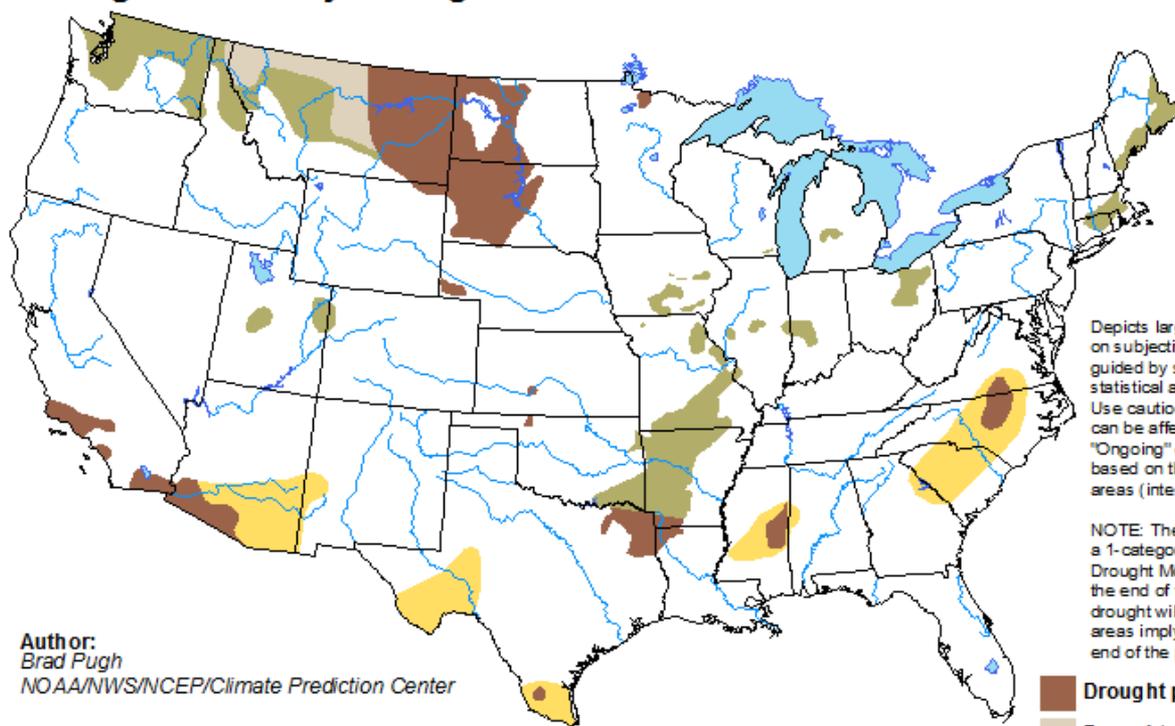
<http://droughtmonitor.unl.edu/>

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Seasonal Drought Outlook

U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for October 19 - January 31, 2018
Released October 19, 2017

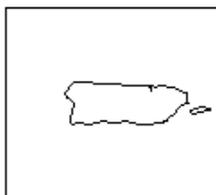
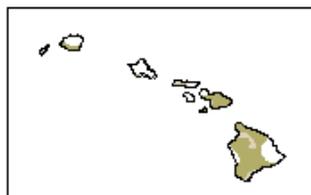
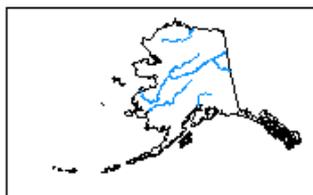


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

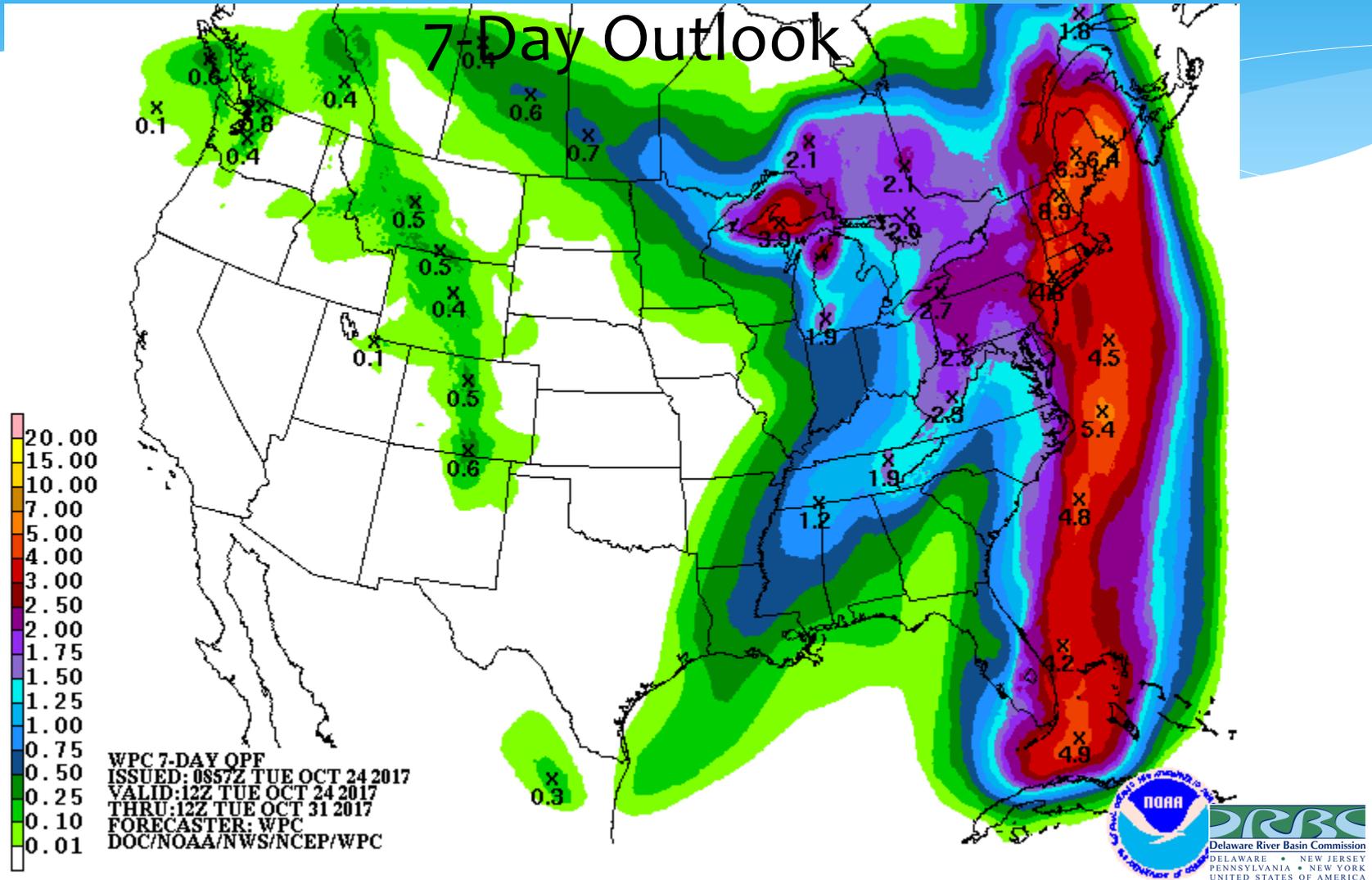
-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



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

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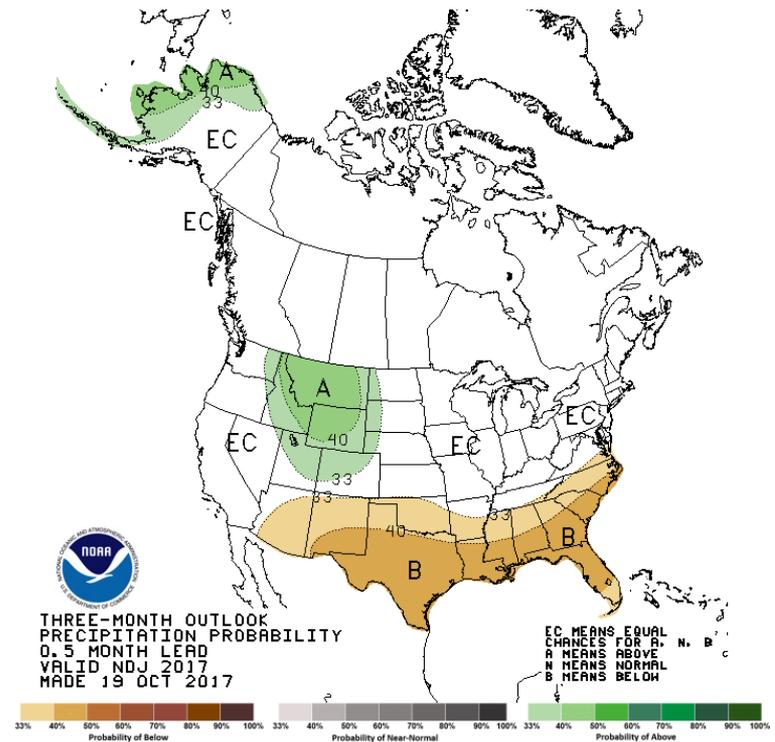
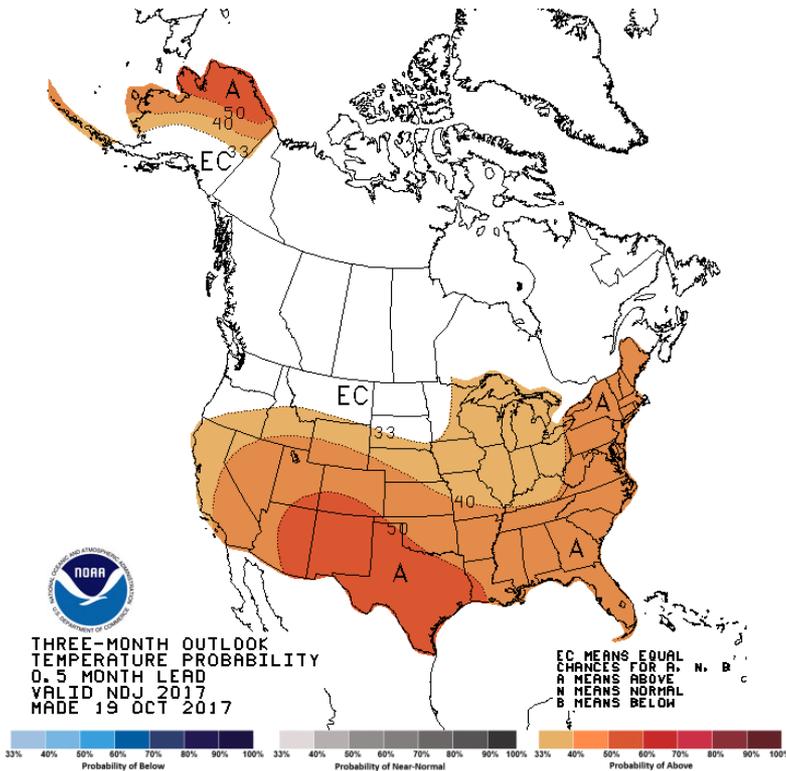
Precipitation



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Temperature and Precipitation

3- Month Outlook



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Questions:

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