

Rhode Island Drought Steering Committee NWS Update

National Weather Service

June 7, 2017



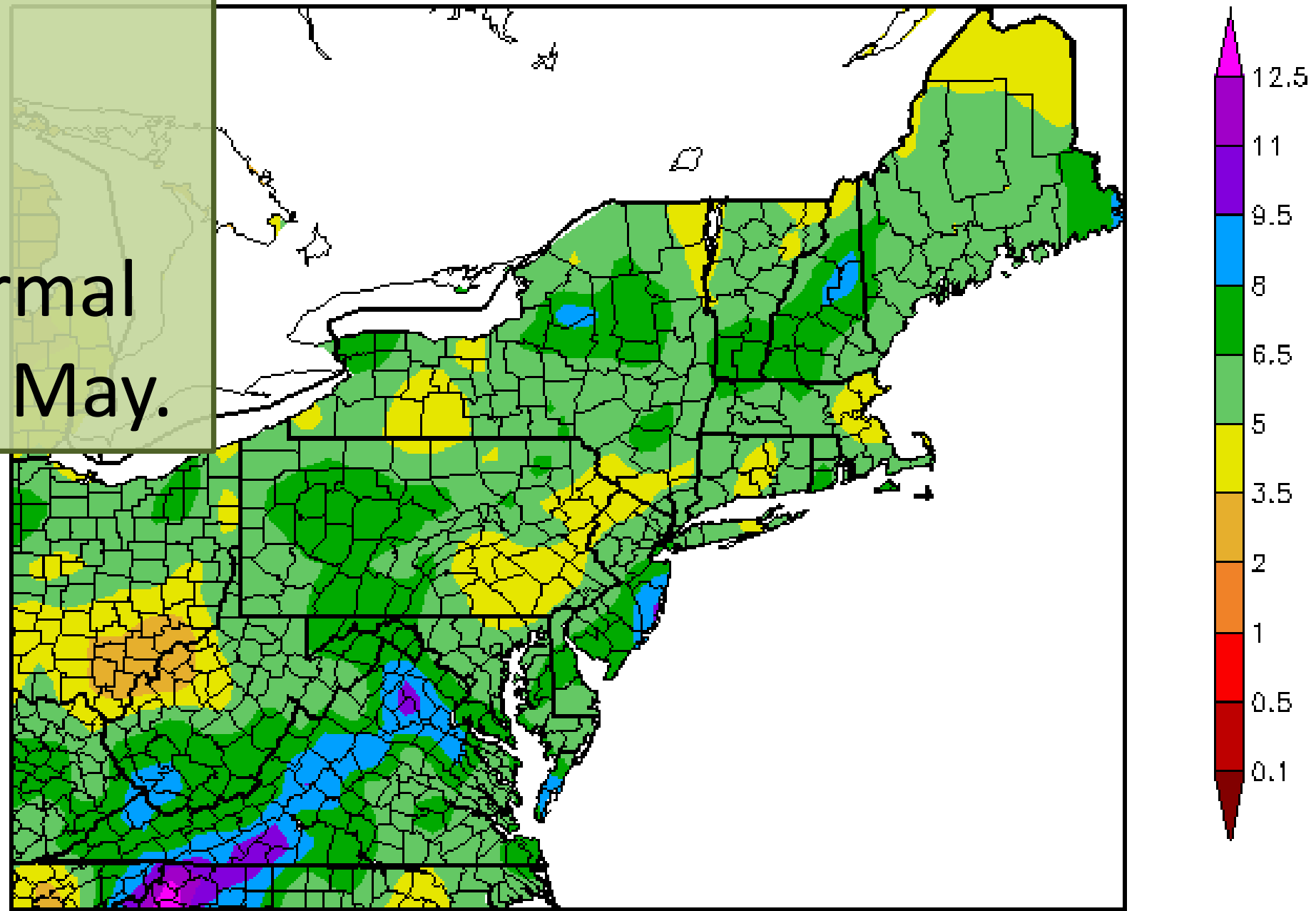
**National Weather Service
Boston, MA**

May Rainfall Map

RI Rainfall:
5.89" to 6.58"

1.5 to 2X the normal
Precipitation for May.

Precipitation (in)
5/1/2017 - 5/31/2017



Rhode Island Drought Regions-

Review of Handouts

Precipitation 100% of
normal or greater for
all Drought Regions at:

- 1 Month
- 2 Months
- 3 Months
- 6 Months

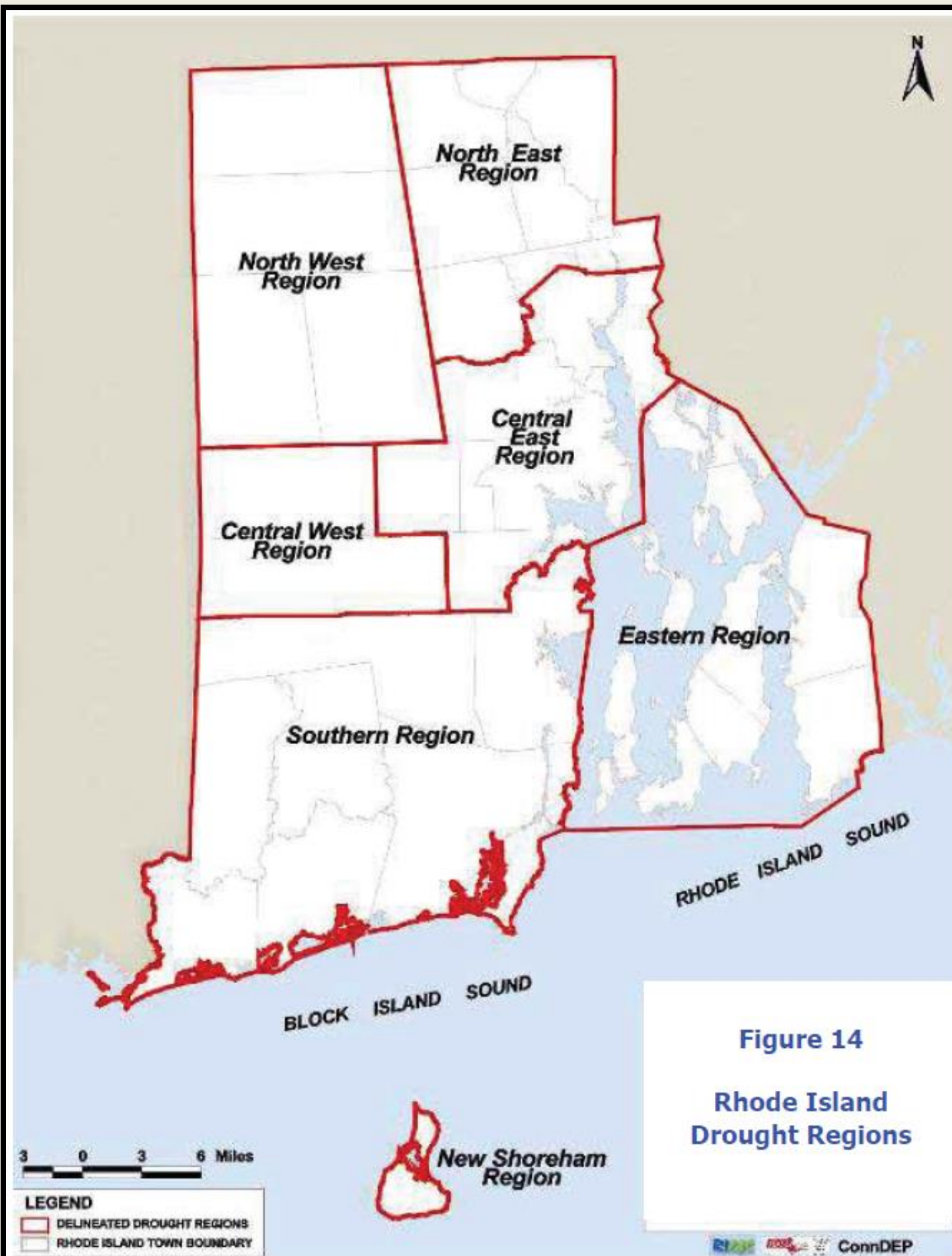


Figure 14

Rhode Island
Drought Regions

March 2017 Precipitation

RI 1 month March 2017	Rainfall	Departure	Percent	Normal
Northwest	3.89	-1.56	71	5.45
Northeast	3.09	-1.93	62	5.02
Central West	3.32	-1.84	64	5.16
Central East	3.68	-1.33	73	5.01
Eastern	3.59	-2.09	63	5.68
Southern	4.22	-1.32	76	5.54
New Shoreham	2.99	-2.55	54	5.54



April and May 2017 Precipitation Data

RI 1 month April 2017	Rainfall	Departure	Percent	Normal
Northwest	5.35	0.65	114	4.70
Northeast	6.43	1.70	136	4.73
Central West	6.91	2.31	150	4.60
Central East	7.99	3.63	183	4.36
Eastern	7.26	2.44	151	4.82
Southern	7.62	2.58	151	5.04
New Shoreham	6.26	1.22	124	5.04

RI 1 month May 2017	Rainfall	Departure	Percent	Normal
Northwest	6.23	2.31	159	3.92
Northeast	5.89	2.11	156	3.78
Central West	6.57	2.82	175	3.75
Central East	6.58	3.03	185	3.55
Eastern	5.77	2.13	159	3.64
Southern	6.36	2.41	161	3.95
New Shoreham	6.40	2.45	162	3.95



A Remarkable Spring- 5th Wettest since 1904 at Providence/TF Green

Rank	Value	Ending Date
1	26.25	1983-05-31
2	21.04	2010-05-31
3	18.45	1984-05-31
4	17.94	1948-05-31
5	17.84	2017-05-31
6	17.16	1953-05-31
7	16.95	1967-05-31
8	16.82	2007-05-31
-	16.82	1998-05-31
10	16.69	1961-05-31

54: Number of days where at least a trace of precipitation fell at Providence this Spring

92: Number of days in Meteorological Spring



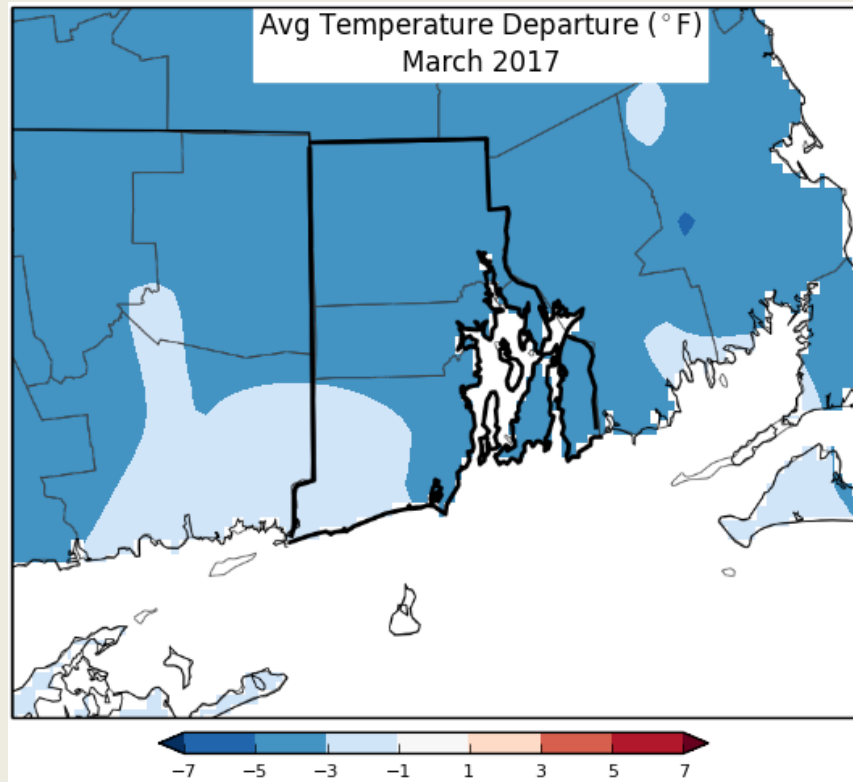
A Remarkable Spring- 6th Wettest since 1893 at Kingston

Rank	Value	Ending Date	Missing Days
1	25.77	1983-05-31	0
2	24.29	1901-05-31	15
3	23.43	2010-05-31	0
4	21.00	2001-05-31	0
5	20.55	1998-05-31	0
6	20.01	2017-05-31	0
7	19.87	1967-05-31	0
8	19.68	1953-05-31	0
9	18.56	1912-05-31	19
10	18.47	1893-05-31	1

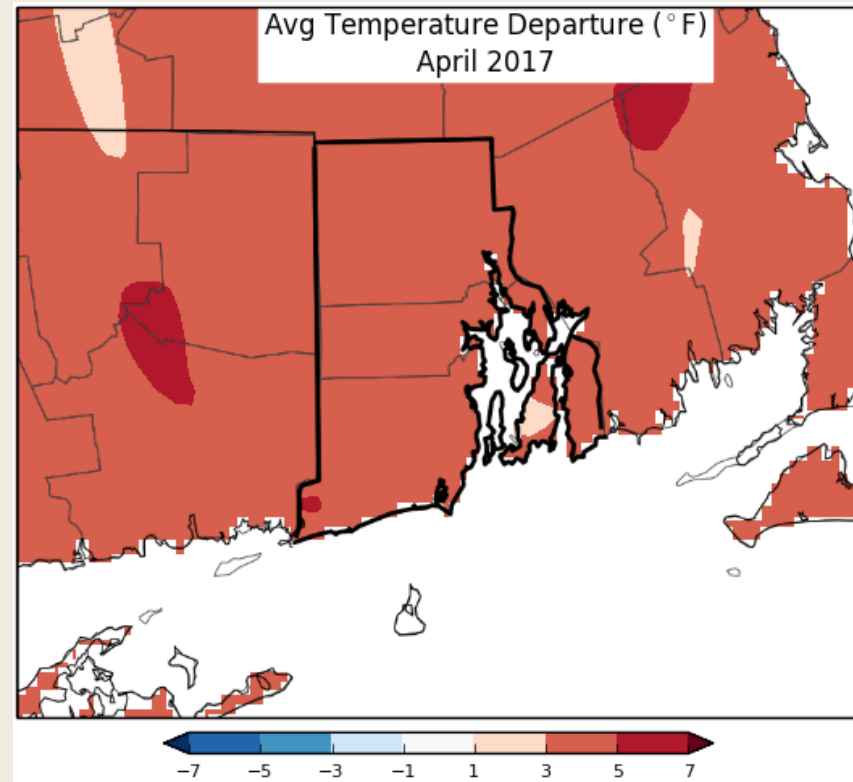
Period of record: 1893-01-02 to 2017-05-31



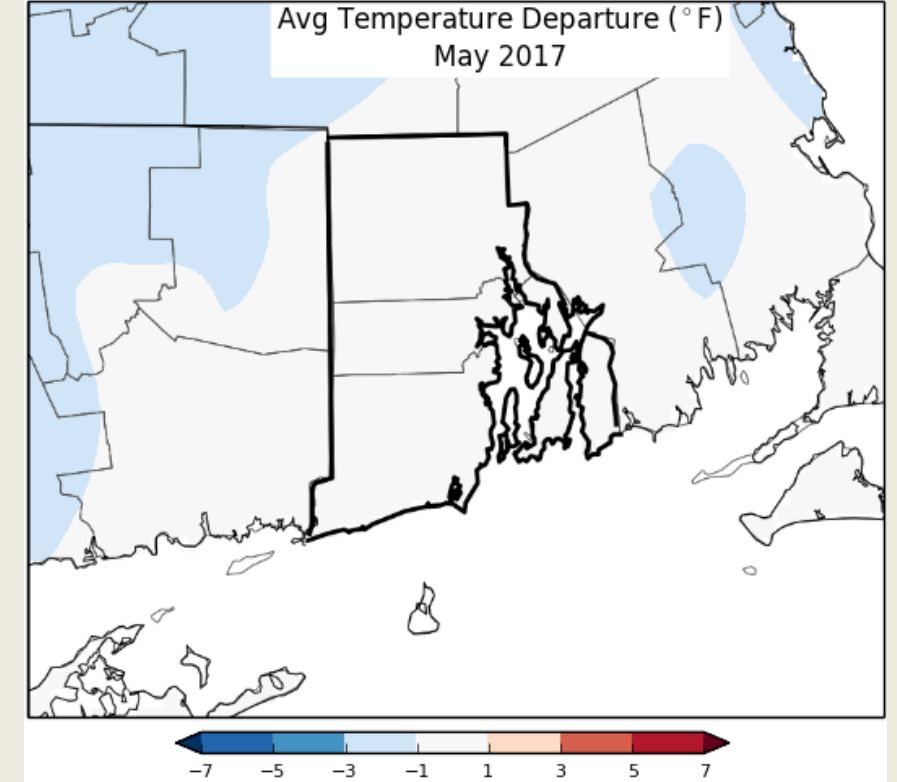
Monthly Temperature Departure from Normal Varied Month-to-Month



Mar- Below Normal
PVD/TF Green -3.8 F



Apr- Above Normal
PVD/TF Green +3.5 F

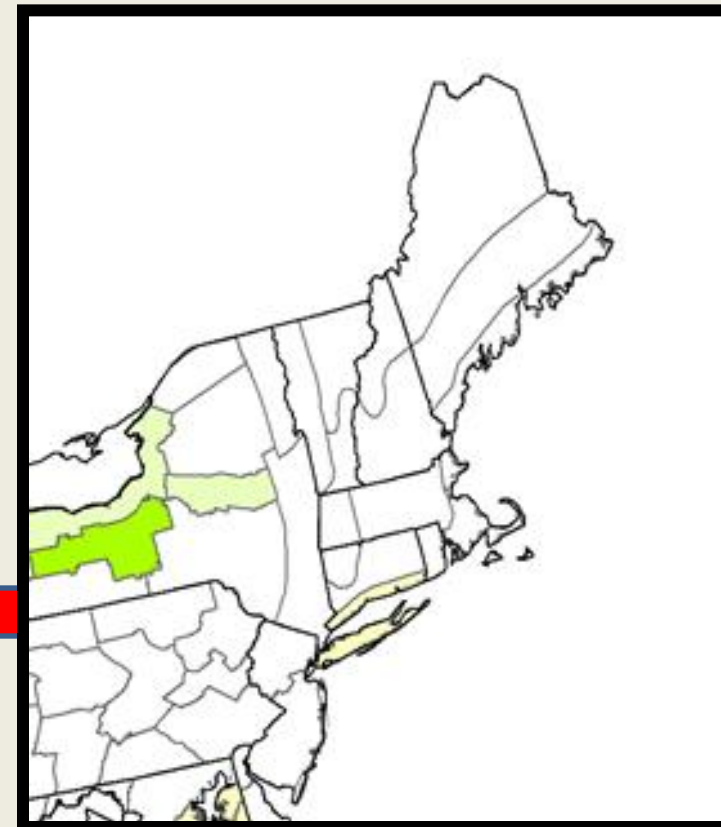
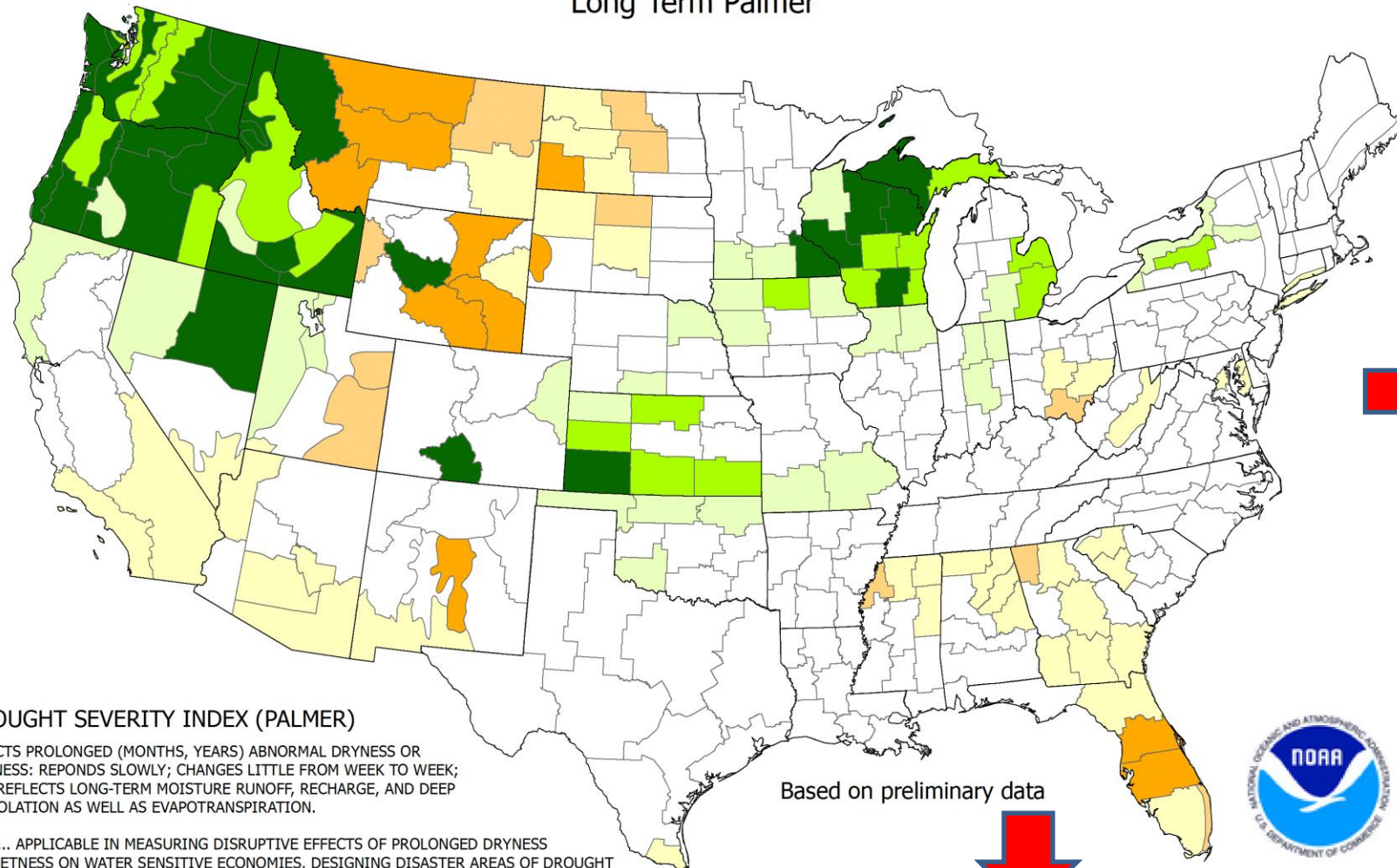


May- Near Normal
PVD/TF Green -0.4 F



Palmer Drought Severity Index (PDSI)- 6/3/17

Drought Severity Index by Division
Weekly Value for Period Ending Jun 03, 2017
Long Term Palmer



RI Drought Index: PDSI
RI Value +0.76, 'Near Normal'

Based on preliminary data










DROUGHT SEVERITY INDEX (PALMER)

DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS; REponds SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION AS WELL AS EVAPOTRANSPIRATION.

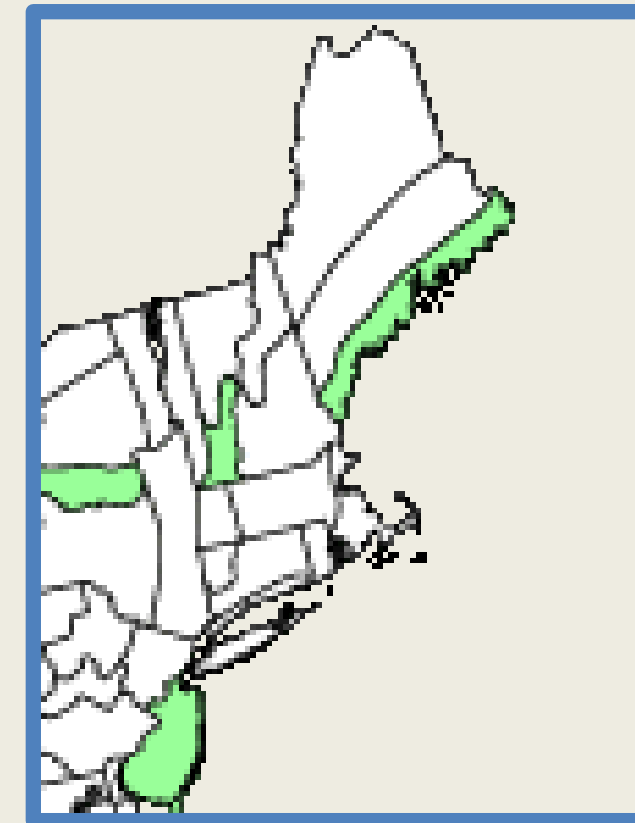
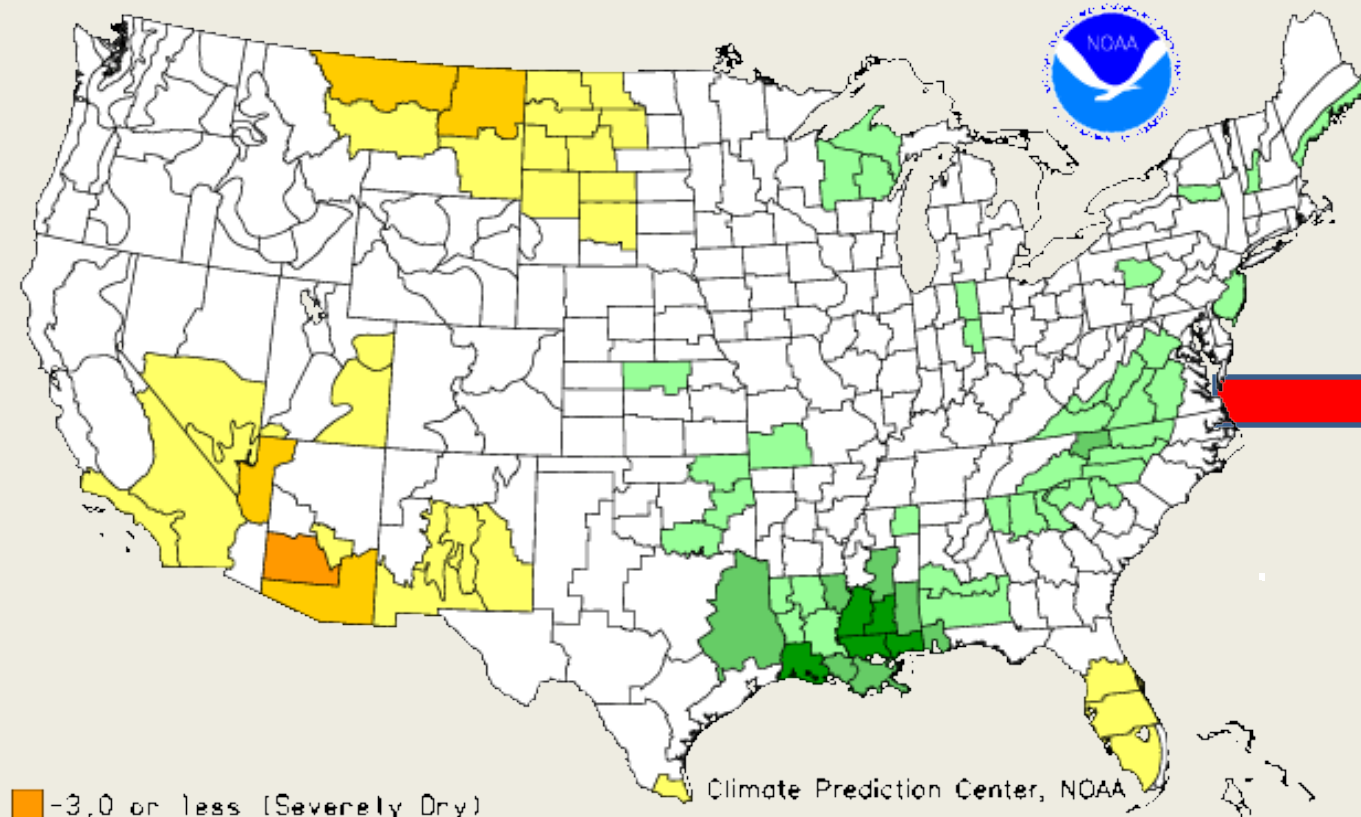
USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATE IN AQUIFERS, RESERVOIRS AND STREAMS.

LIMITATIONS... IS NOT GENERALLY INDICATIVE OFFSHORT-TERM OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS C (THIS IS INDICATED BY THE CROP MOISTURE INDEX).

- | | | | |
|---|---------------------------------|---|------------------------------------|
|  | -4.0 or less (Extreme Drought) |  | +2.0 to +2.9 (Unusual Moist Spell) |
|  | -3.0 to -3.9 (Severe Drought) |  | +3.0 to +3.9 (Very Moist Spell) |
|  | -2.0 to -2.9 (Moderate Drought) |  | +4.0 and above (Extremely Moist) |
|  | --1.9 to +1.9 (Near Normal) | | |

Crop Moisture Index (CMI)- 6/3/17

Crop Moisture Index by Division
 Weekly Value for Period Ending JUN 3, 2017
 Short Term Need vs. Available Water in a Shallow Soil Profile



- | | |
|---|----------------------------------|
| -3.0 or less (Severely Dry) | +1.0 to +1.9 (Abnormally Moist) |
| -2.0 to -2.9 (Excessively Dry) | +2.0 to +2.9 (Wet) |
| -1.0 to -1.9 (Abnormally Dry) | +3.0 and above (Excessively Wet) |
| -0.9 to +0.9 (Slightly Dry/Favorably Moist) | |

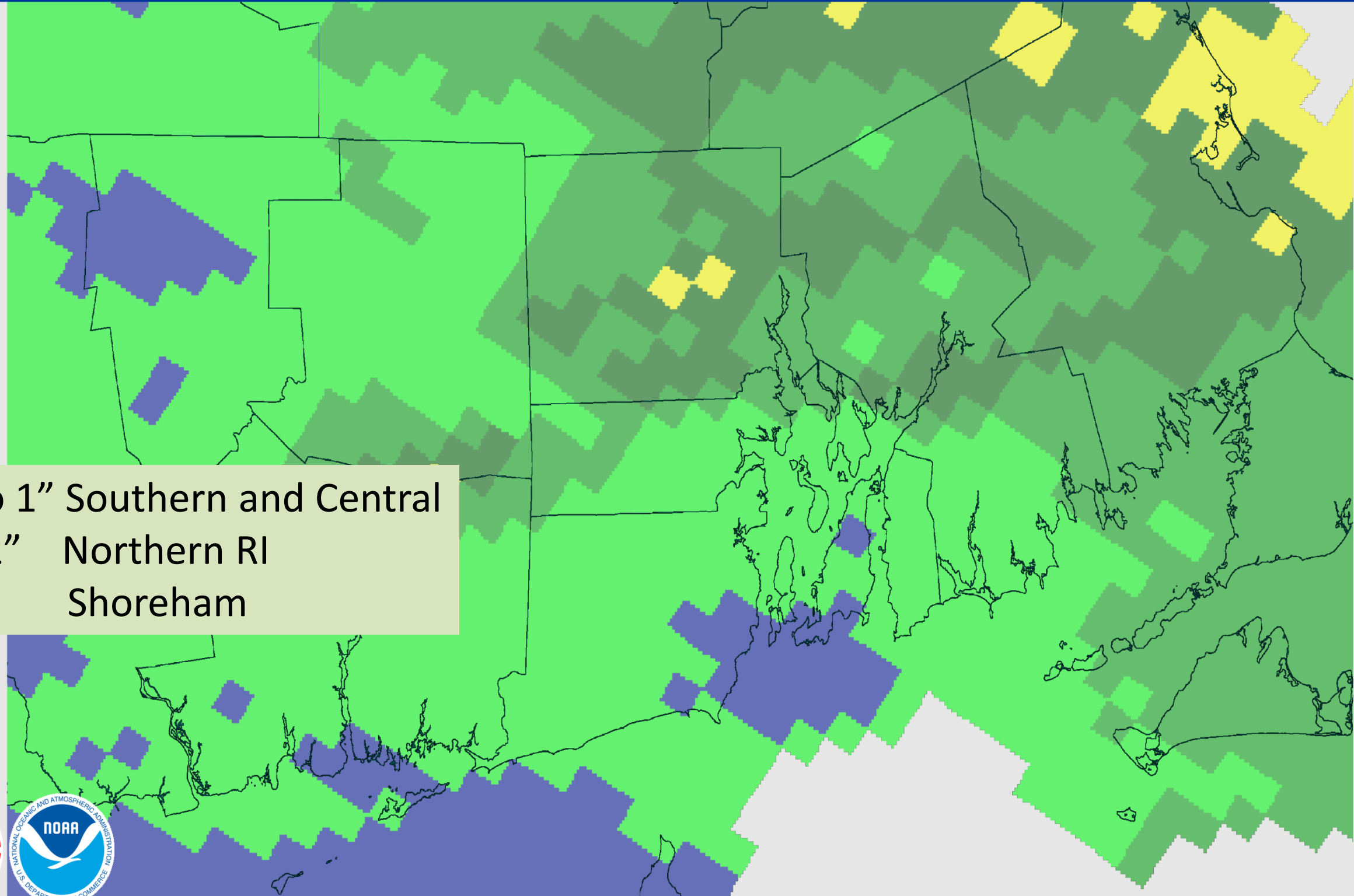
RI Secondary Drought Index: CMI
 RI Value Normal as of 6/3
 Was +0.88 "Favorably Moist"

- | | |
|---|---------------------------------|
| -3.0 or less (Severely Dry) | +1.0 to +1.9 (Abnormally Moist) |
| -2.0 to -2.9 (Excessively Dry) | +2.0 to +3.0 (Wet) |
| -1.0 to -1.9 (Abnormally Dry) | 3.0 and above (Excessively Wet) |
| -0.9 to +0.9 (Slightly Dry/Favorably Moist) | |

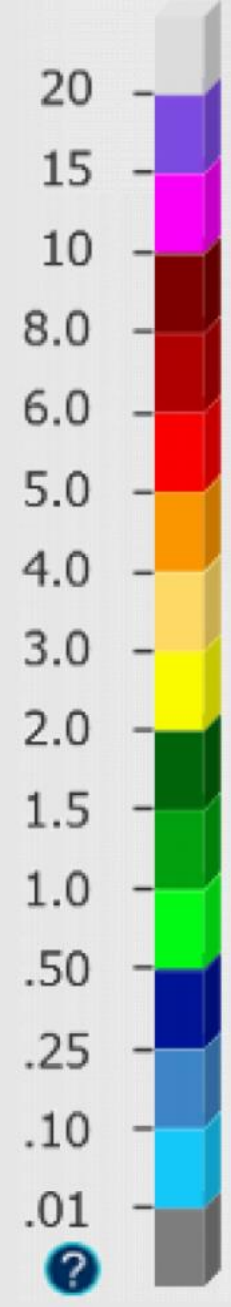
June 06, 2017 Month to Date Observed Precipitation

Created on: June 06, 2017 - 17:25 UTC

Valid on: June 06, 2017 12:00 UTC

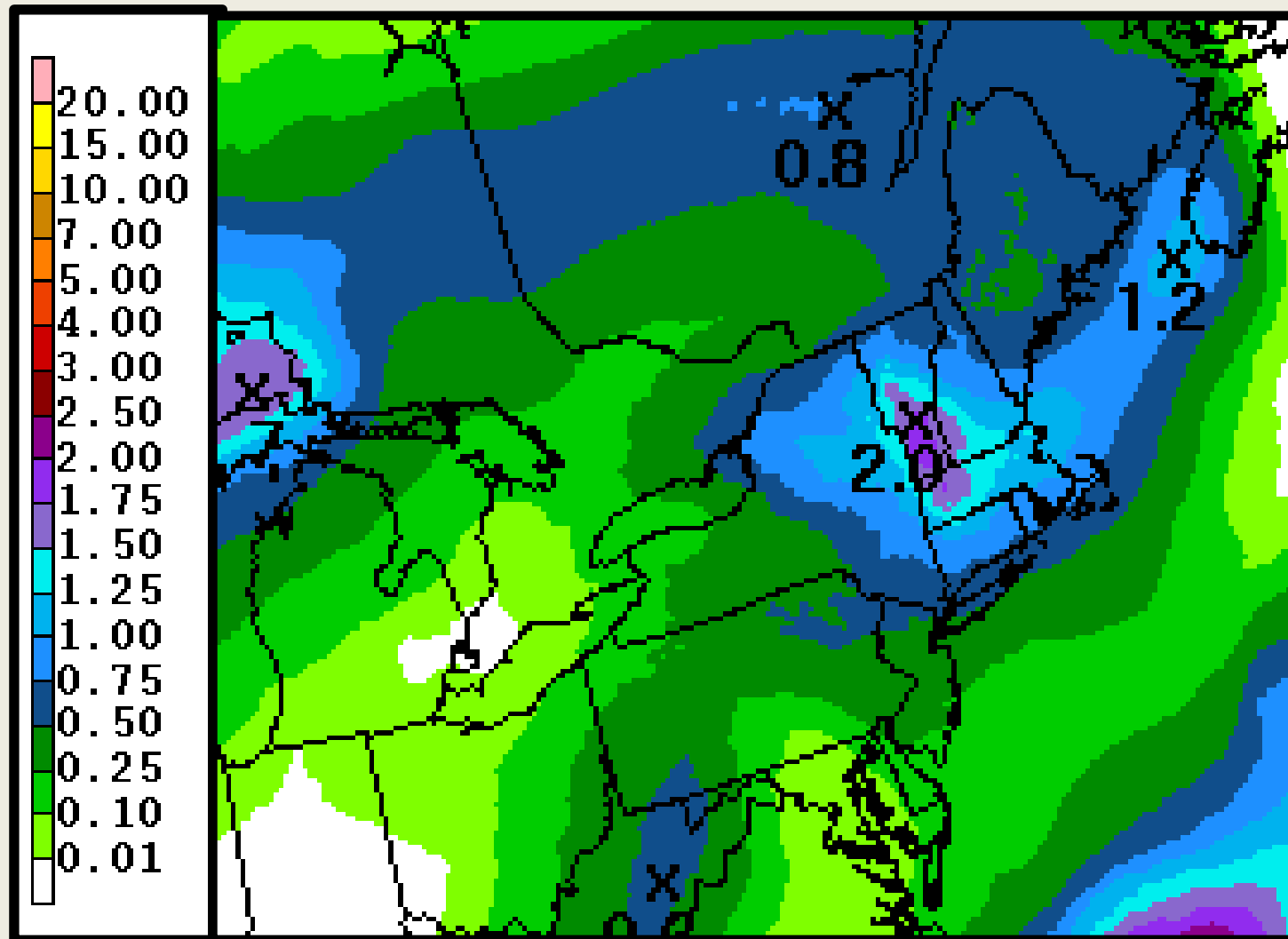


0.5 to 1" Southern and Central
1 to 2" Northern RI
<0.5" Shoreham



Forecast for the Next 6 Days

Rainfall Forecast thru 8 AM June 13th:



Rainfall: Below or Near Normal

- This Map includes a hindcast of
- 0.25" to 0.5"
- Up to a half inch or so of rainfall Thru next Monday (Thu night-Fri)

Temperatures:

- *Normal High: 73*
- *Normal Low: 50*

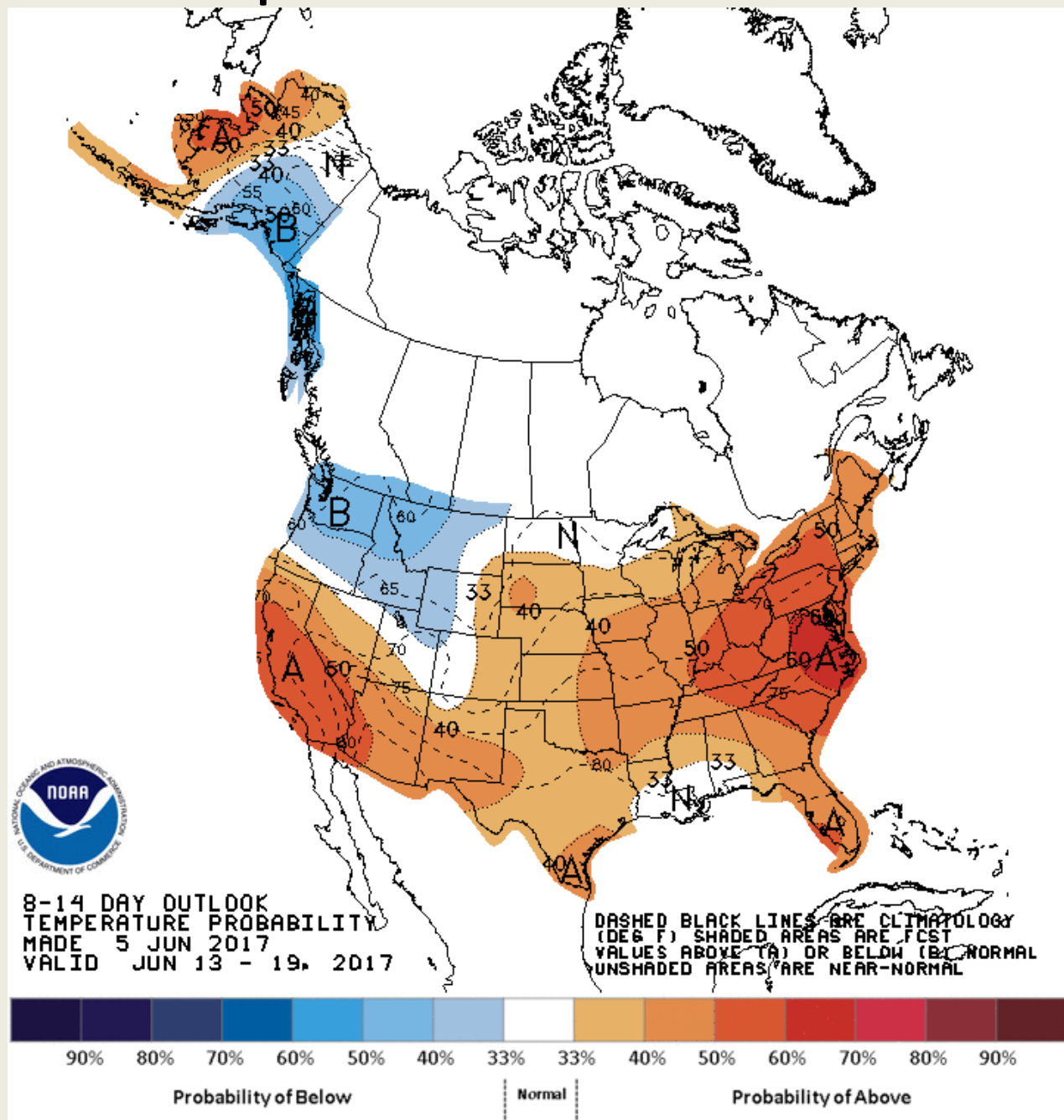
*Thru Friday Daytime highs below normal
Overnight lows above normal*

*Saturday thru Monday:
Temperatures above normal*

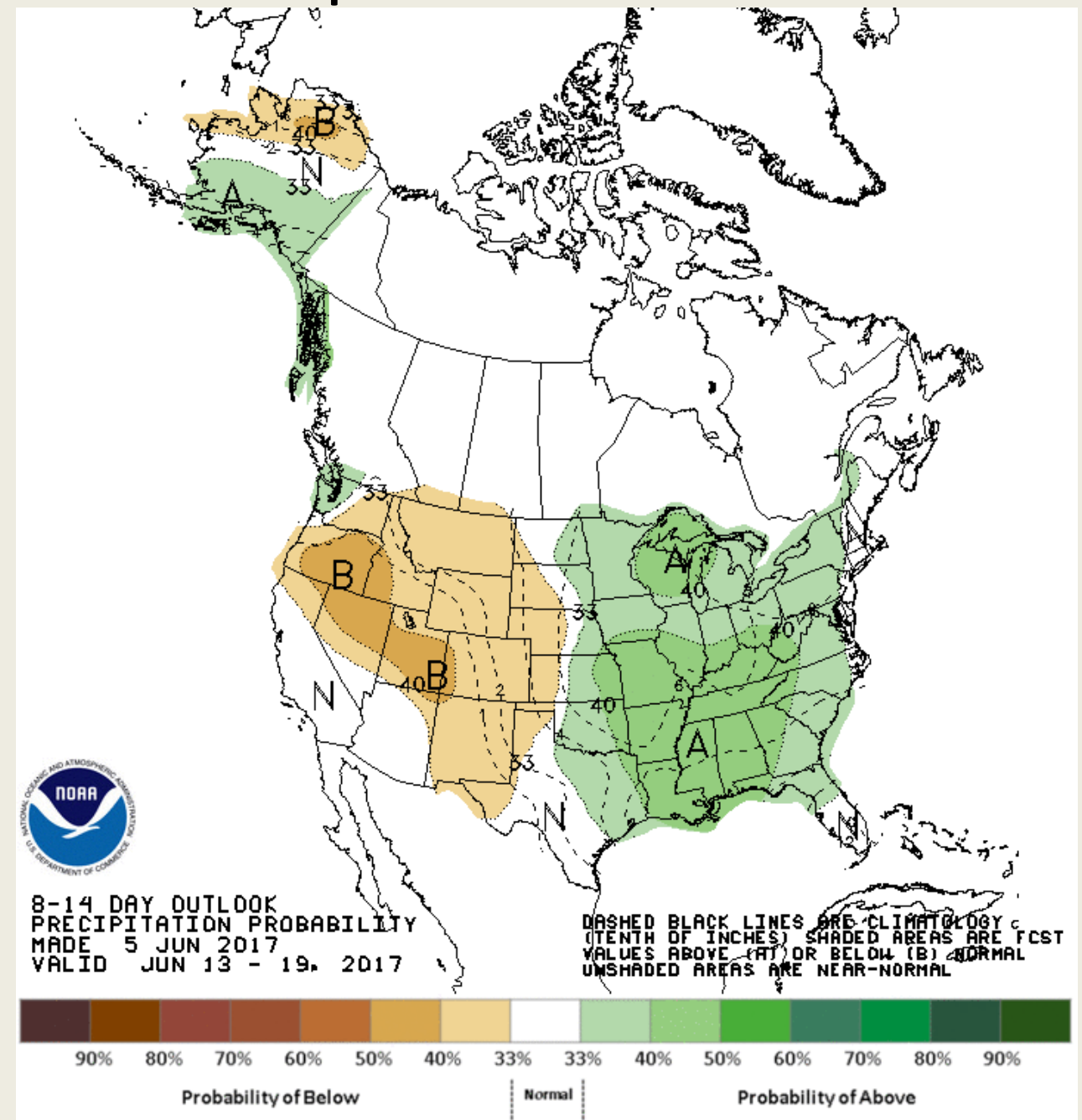


Outlook: June 13-19th

Temperatures- Above Normal



Precipitation- Normal



Summer Outlook from CPC (Jun/Jul/Aug)

