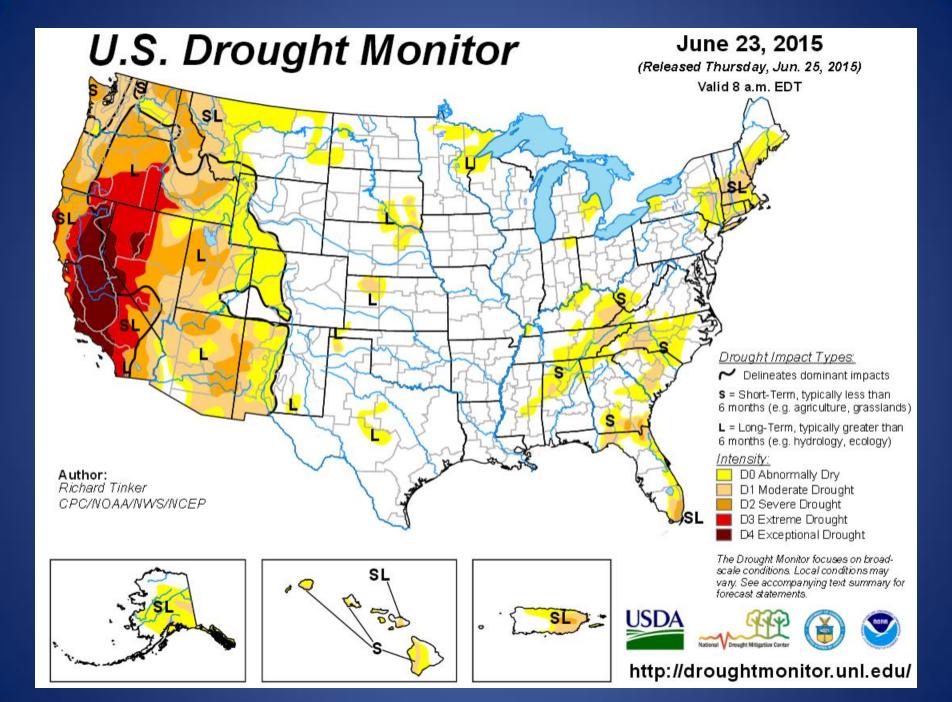
# The Drought Monitor And Recent Dryness in the Northeast

Rich Tinker <u>rich.tinker@noaa.gov</u>

Climate Prediction Center

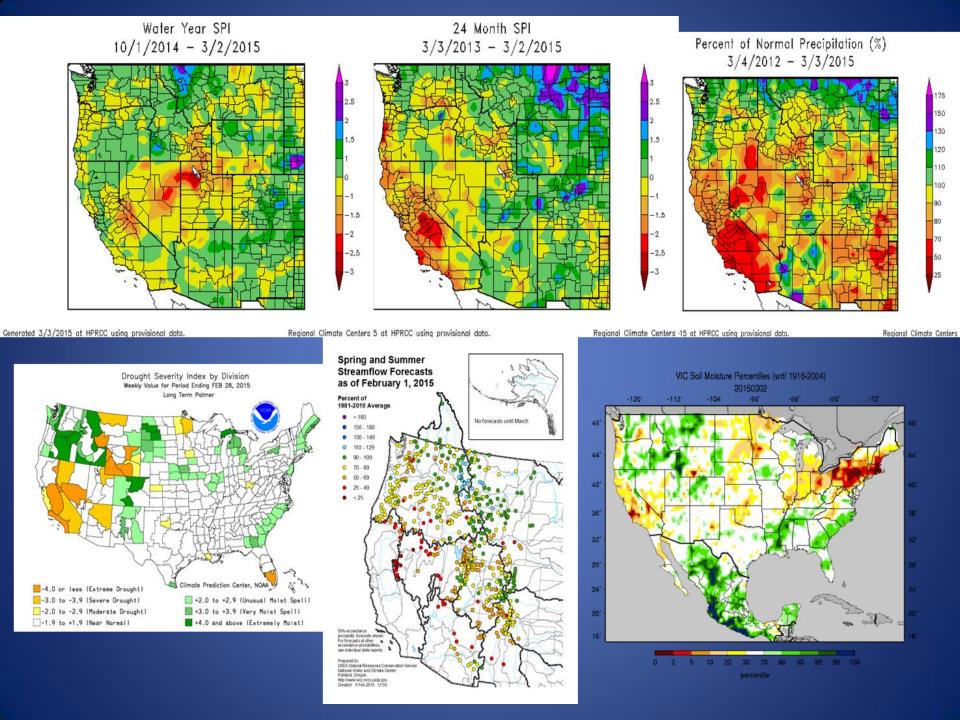
June 30, 2015



#### **Drought Severity Classification**

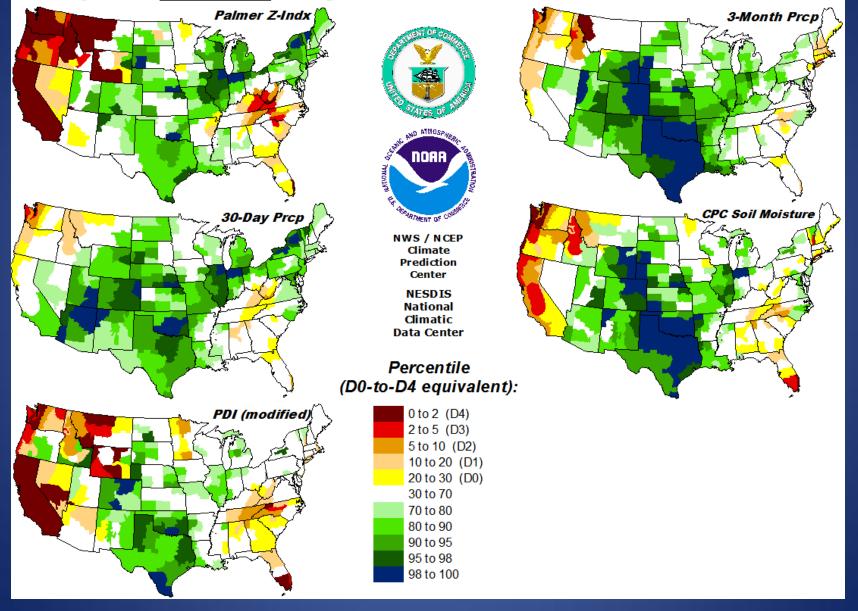
		Ranges						
Category	Description	Possible Impacts	Palmer Drought Index	CPC Soil Moisture Model (Percentiles)	USGS Weekly Streamflow (Percentiles)	Standardized Precipitation Index (SPI)	Objective Short and Long-term Drought Indicator Blends (Percentiles)	
D0	Abnormally Dry	Going into drought: short-term dryness slowing planting, growth of crops or pastures. Coming out of drought: some lingering water deficits; pastures or crops not fully recovered	-1.0 to -1.9	21-30	21-30	-0.5 to -0.7	21-30	
D1	Moderate Drought	Some damage to crops, pastures; streams, reservoirs, or wells low, some water shortages developing or imminent; voluntary water-use restrictions requested	-2.0 to -2.9	11-20	11-20	-0.8 to -1.2	11-20	
D2	Severe Drought	Crop or pasture losses likely; water shortages common; water restrictions imposed	-3.0 to -3.9	6-10	6-10	-1.3 to -1.5	6-10	
D3	Extreme Drought	Major crop/pasture losses; widespread water shortages or restrictions	-4.0 to -4.9	3-5	3-5	-1.6 to -1.9	3-5	
D4	Exceptional Drought	Exceptional and widespread crop/pasture losses; shortages of water in reservoirs, streams, and wells creating water emergencies	-5.0 or less	0-2	0-2	-2.0 or less	0-2	

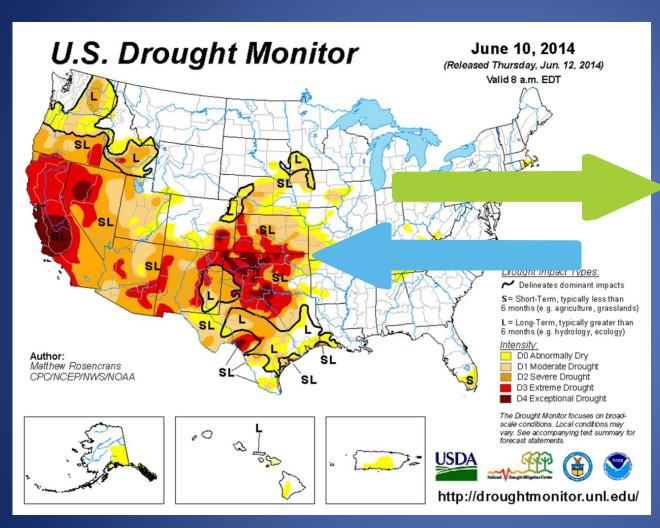
Short-term drought indicator blends focus on 1-3 month precipitation. Long-term blends focus on 6-60 months. Additional indices used, mainly during the growing season, include the USDA/NASS Topsoil Moisture, Keetch-Byram Drought Index (KBDI), and NOAA/NESDIS satellite Vegetation Health Indices. Indices used primarily during the snow season and in the West include snow water content, river basin precipitation, and the Surface Water Supply Index (SWSI). Other indicators include groundwater levels, reservoir storage, and pasture/range conditions.



### A Few Longer-Term Indicators







Regional Weather Service Offices

**State Climatologists** 

Weather Service Hydrologists

Local/Regional Water Supply Experts

National Drought Mitigation Center

U. S. Dept. of Agriculture

(National Agricultural Statistics Service)

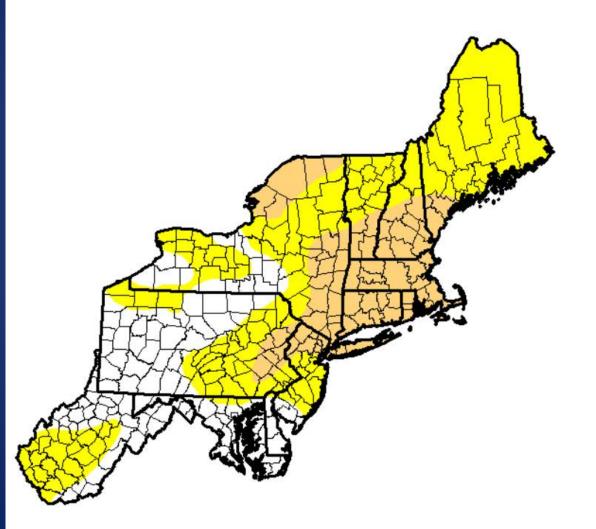
Natural Resources Conservation Service

Desert Research Institute

OVER 300 GIVEN OPPORTUNITY TO COMMENT

### U.S. Drought Monitor

### **Northeast**



### May 26, 2015

(Released Thursday, May. 28, 2015) Valid 7 a.m. EST

Drought Conditions (Percent Area)

:	None	D0	D1	D2	D3	D4
Сиптепт	29.44	46.93	23.64	0.00	0.00	0.00
Last Week 5/19/2015	36.04	41.22	22.74	0.00	0.00	0.00
3 Month's Ago 2/24/2015	82.69	17.31	0.00	0.00	0.00	0.00
Start of Calendar Year 12302014	86.73	13.27	0.00	0.00	0.00	0.00
Start of Water Year 930/2014	65.88	30.56	3.56	0.00	0.00	0.00
One Year Ago 527/2014	98.68	1.32	0.00	0.00	0.00	0.00

#### Intensity:

D0 Abnormally Dry
D3 Extreme Drought
D1 Moderate Drought
D4 Exceptional Drought

D2 Severe Drought

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

#### Author:

Brad Rippey

U.S. Department of Agriculture

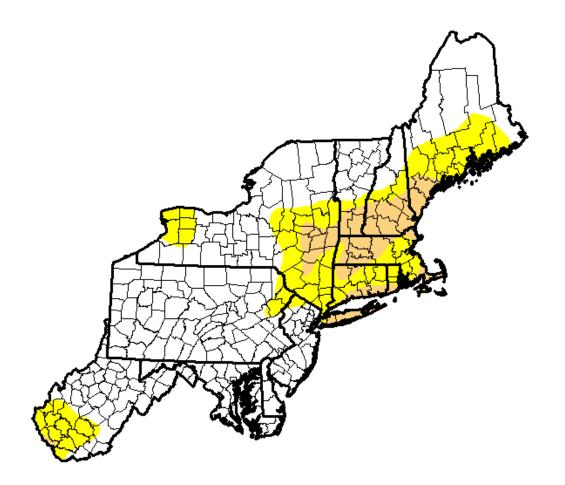








### U.S. Drought Monitor Northeast



### June 23, 2015

(Released Thursday, Jun. 25, 2015) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Сиптепт	68.62	31.38	10.17	0.00	0.00	0.00
Last Week 646/2015	57.83	42.17	13.97	0.00	0.00	0.00
3 Month's Ago 324/2015	74.91	25.09	0.00	0.00	0.00	0.00
Start of Calendar Year 12/3/02/01/4	86.73	13.27	0.00	0.00	0.00	0.00
Start of Water Year 9/30/2014	65.88	34.12	3.56	0.00	0.00	0.00
One Year Ago 624/2014	98.26	1.74	0.00	0.00	0.00	0.00

#### 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.

#### Author:

Richard Tinker CPC/NOAA/NWS/NCEP

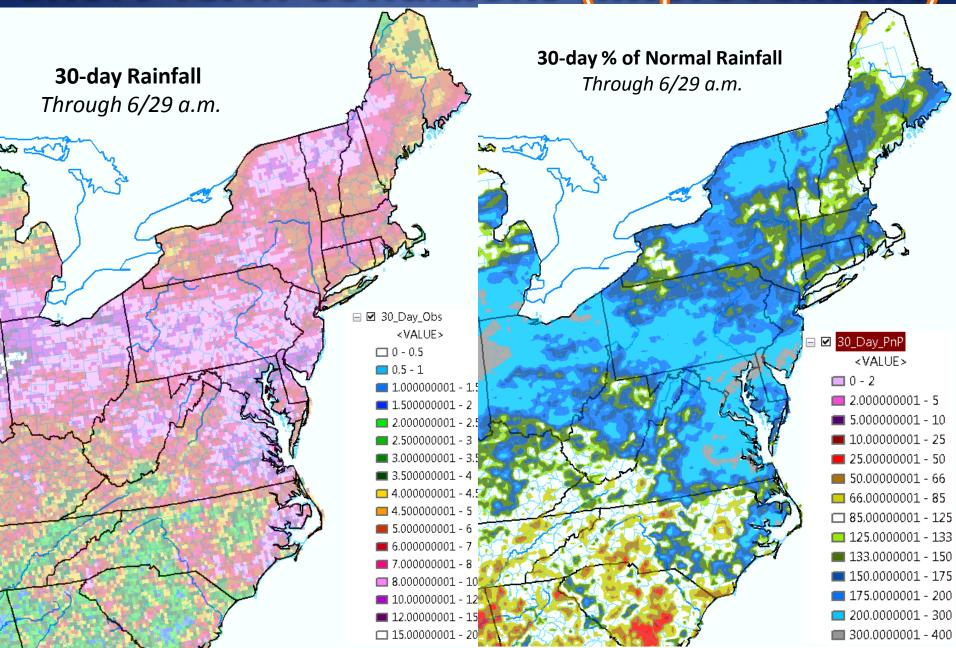




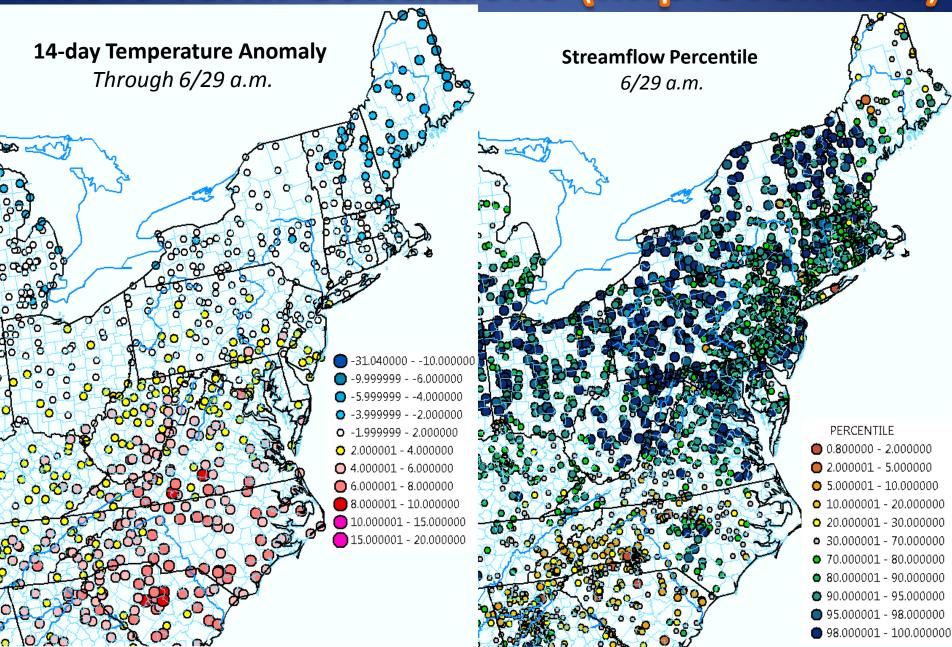




### **Short-Term Conditions (improvement)**

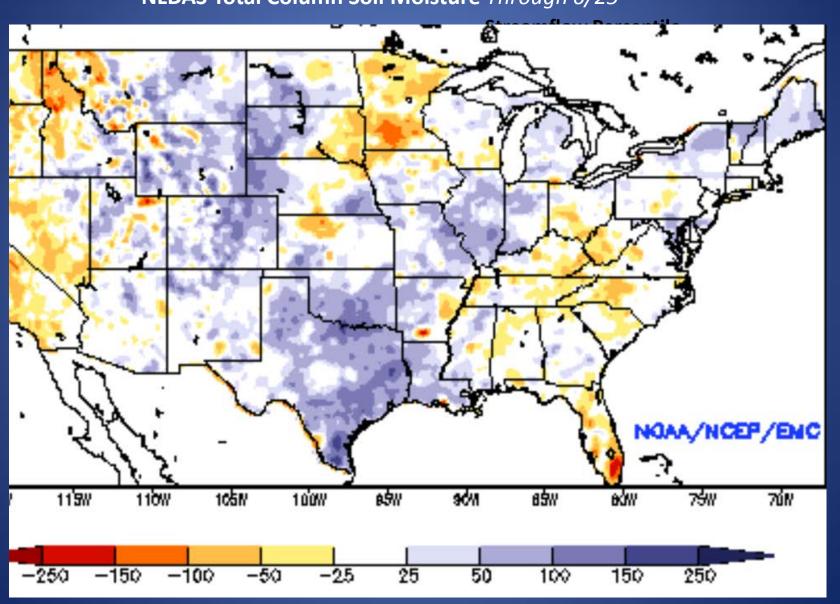


### **Short-Term Conditions (improvement)**



### **Short-Term Conditions (improvement)**

**NLDAS Total Column Soil Moisture** *Through 6/25* 



## Longer-Term Conditions (still some significant deficits)

