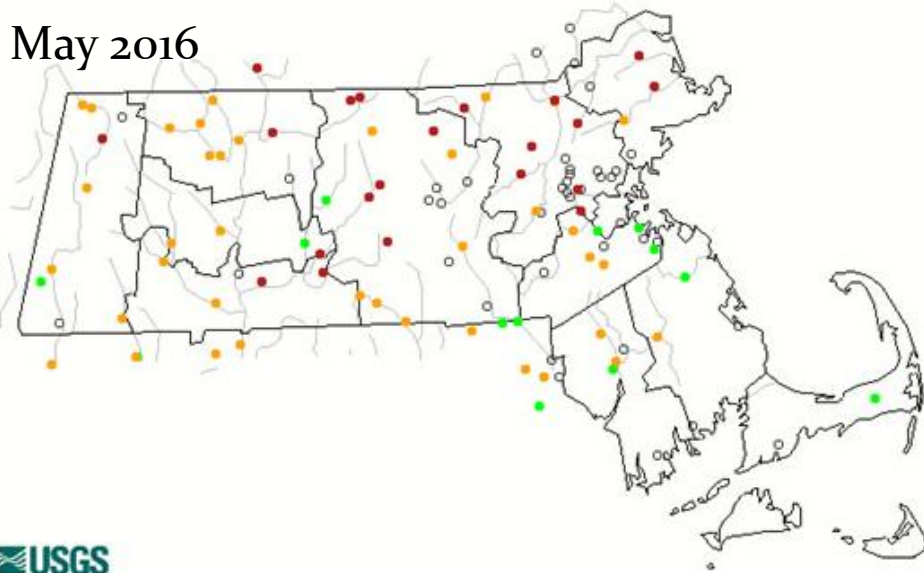


Streamflow and Groundwater Conditions in Massachusetts

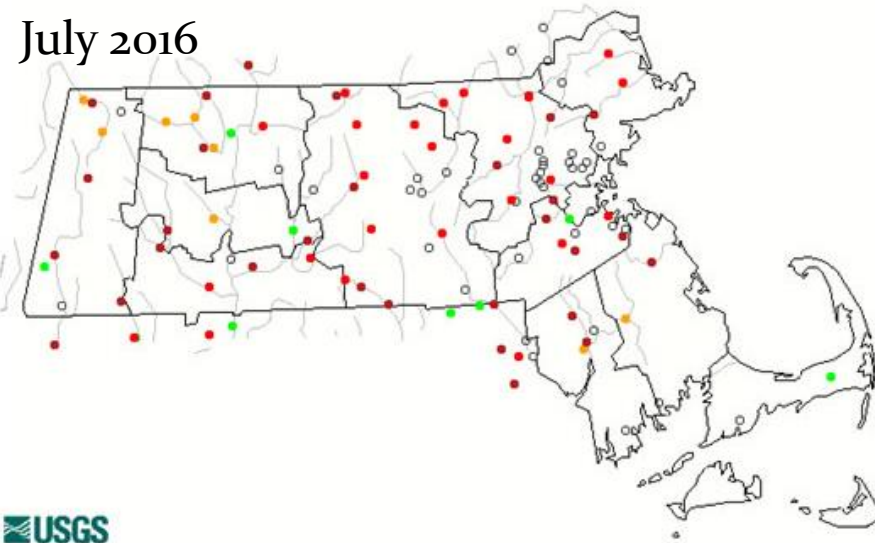
Richard Verdi
U.S. Geological Survey
New England Water Science Center
Massachusetts – Rhode Island Office

Massachusetts Streamflow Conditions During May, June, and July 2016

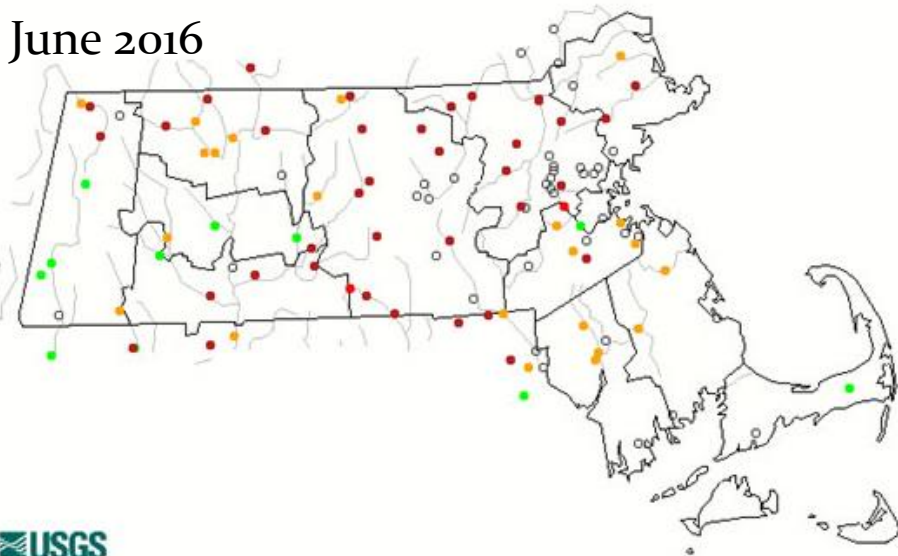
May 2016



July 2016



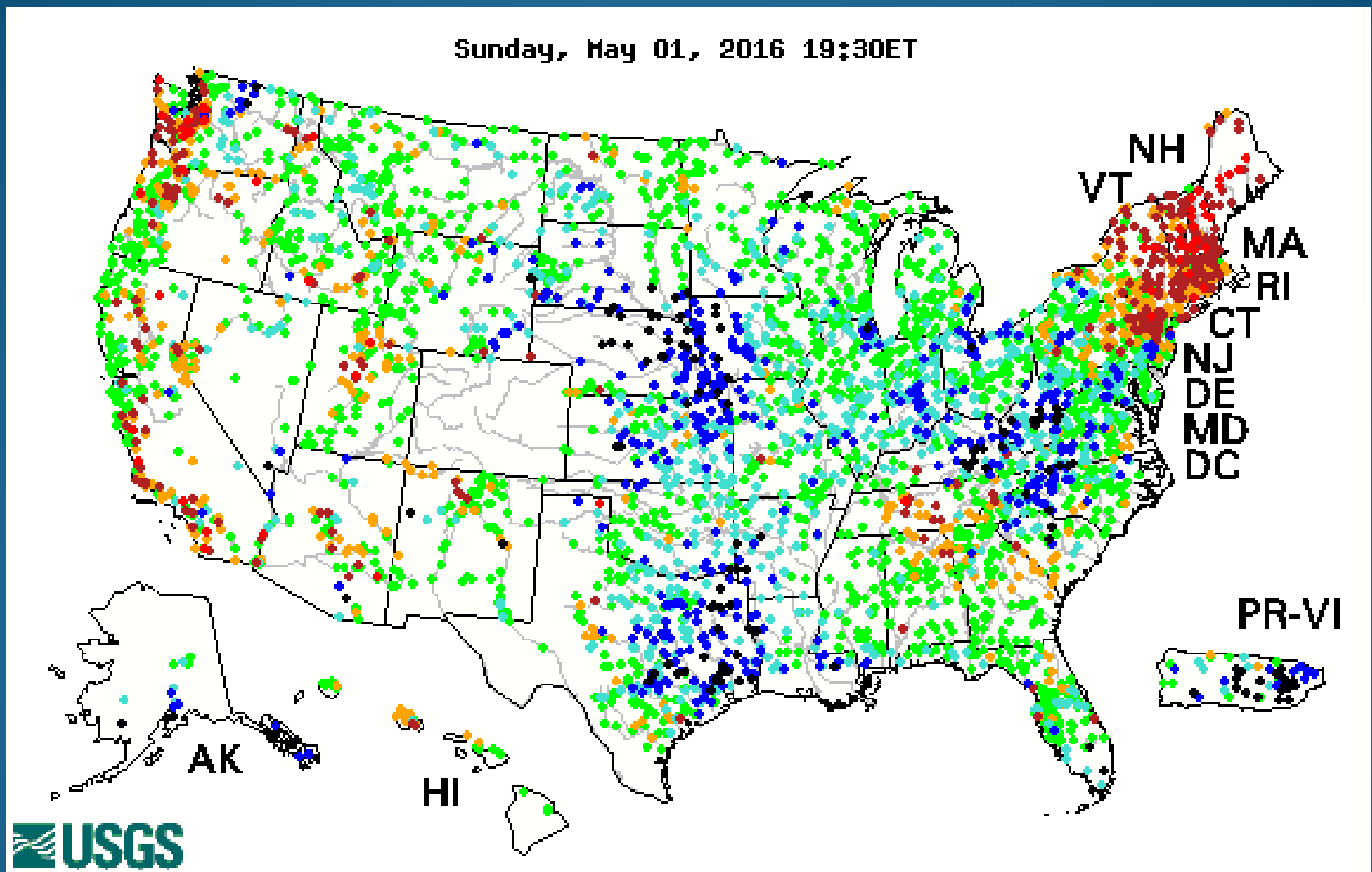
June 2016



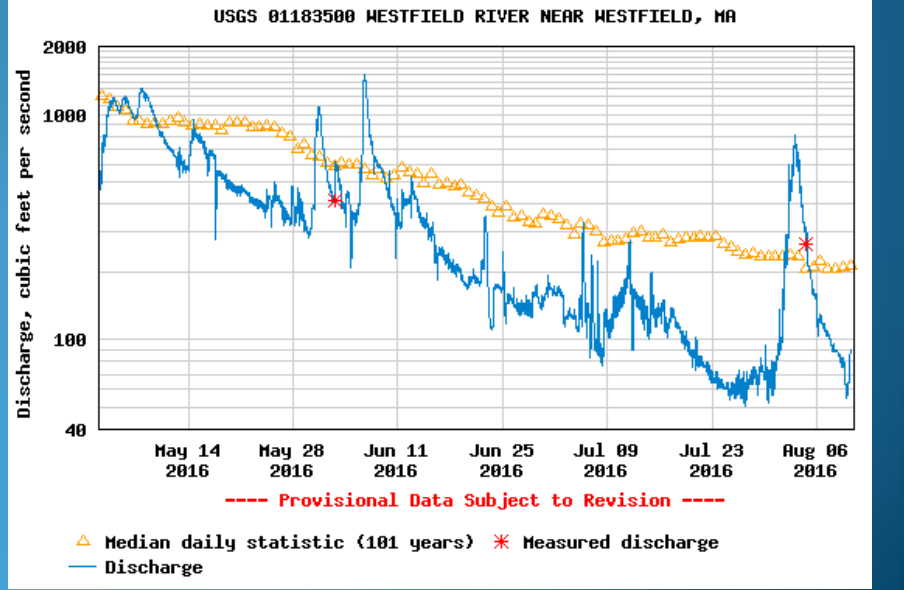
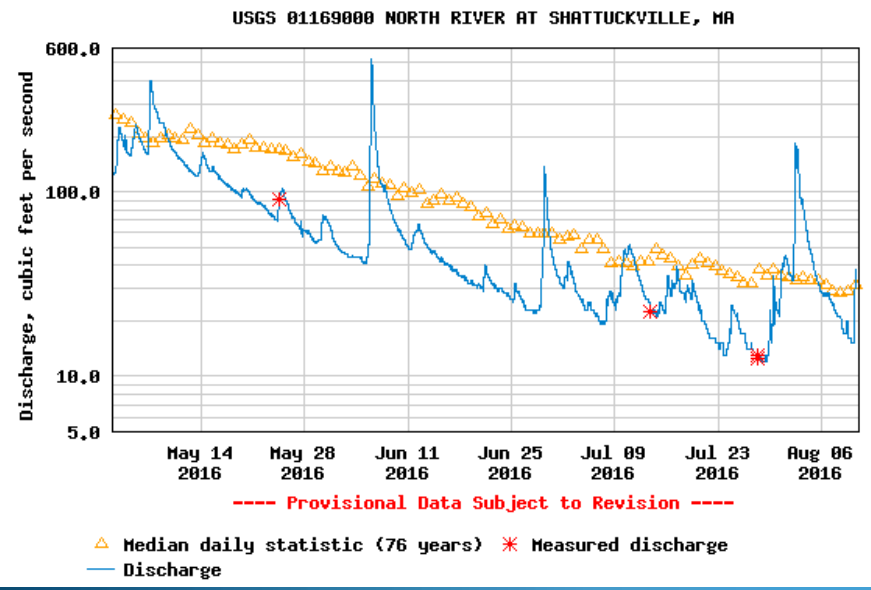
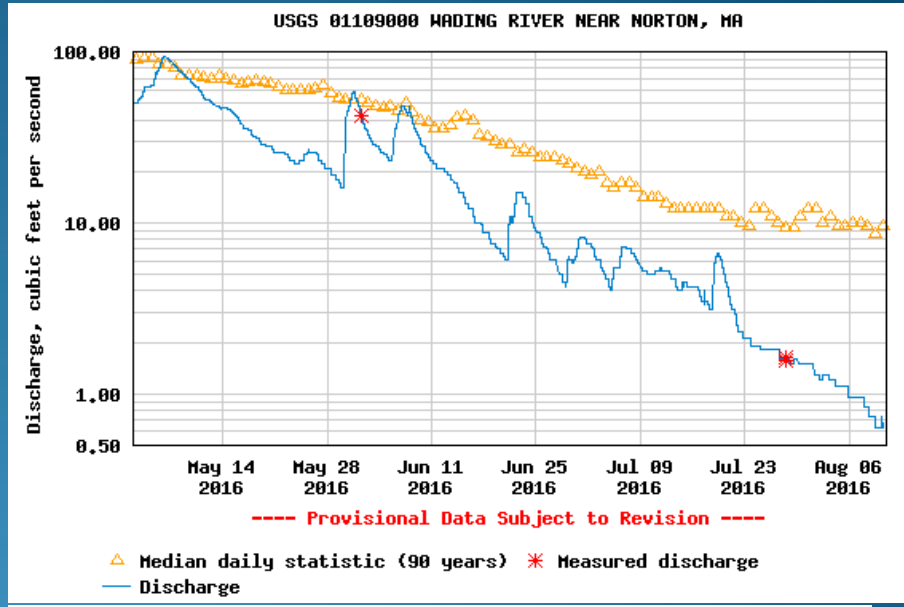
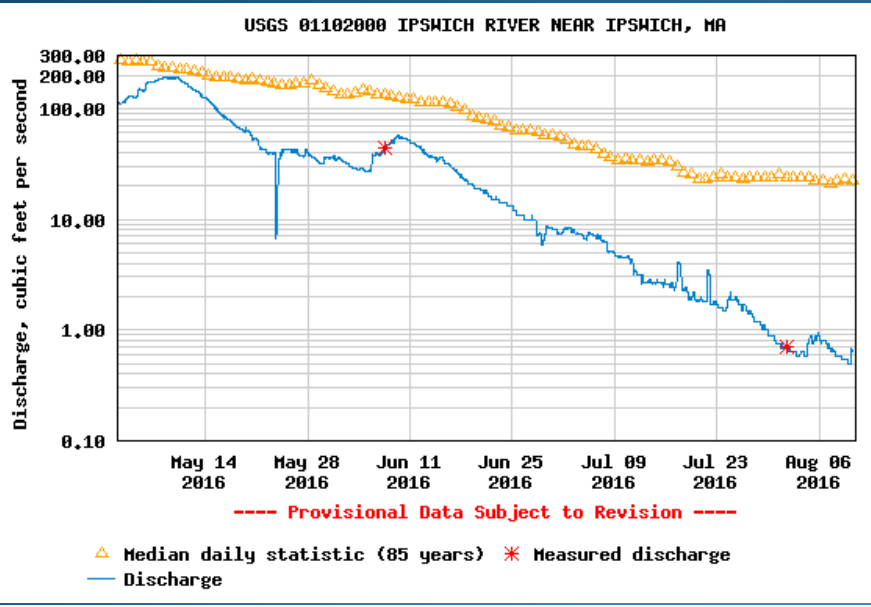
USGS

Explanation - Percentile classes						
	<10	10-24	25-75	76-90	>90	
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High

National Streamflow Conditions During May 1 – Aug. 9, 2016



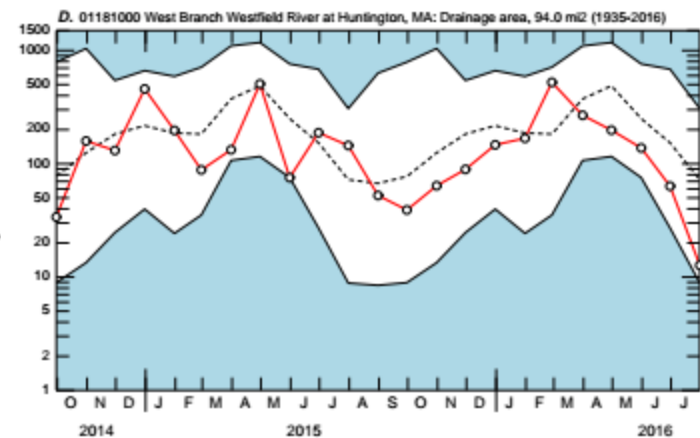
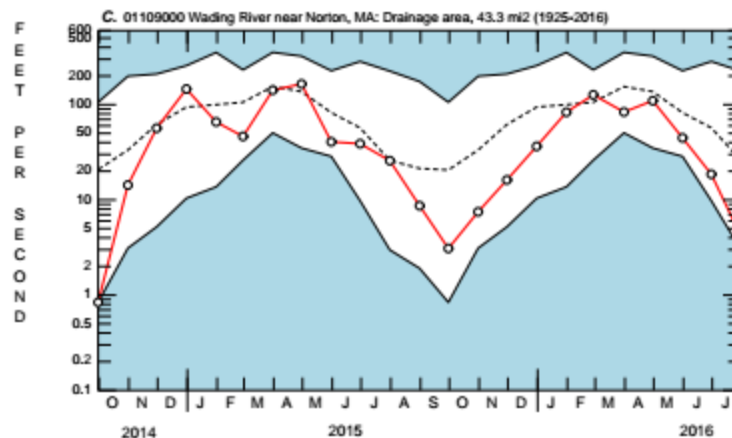
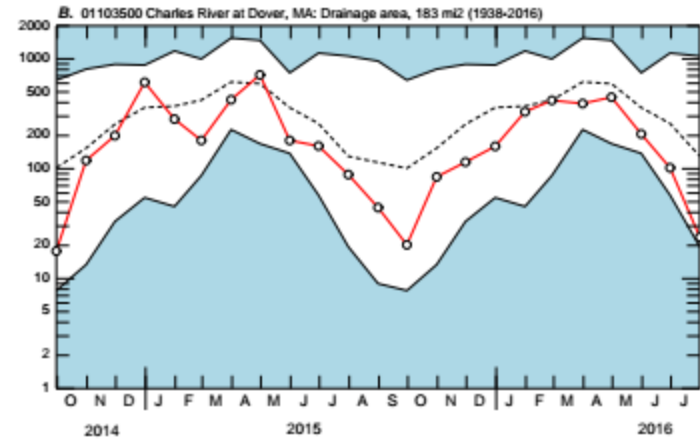
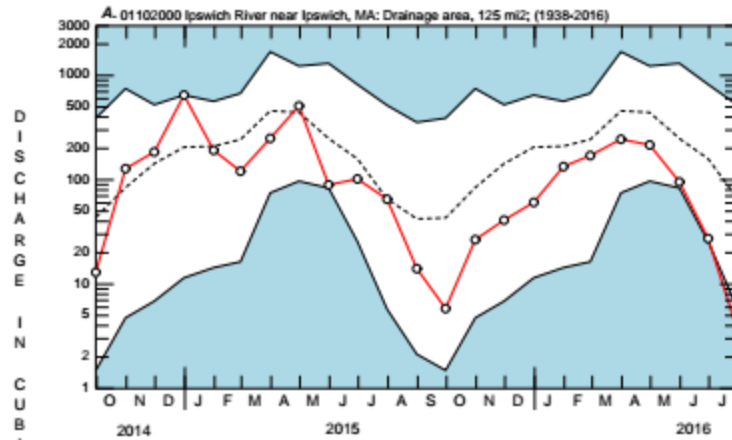
Discharge Measurements are Made at Streamgages to Check or Adjust Stage-Discharge Ratings at Various Flow Rates



Monthly Streamflow Conditions at Selected USGS Streamgages in Massachusetts October 2014 to July 2016

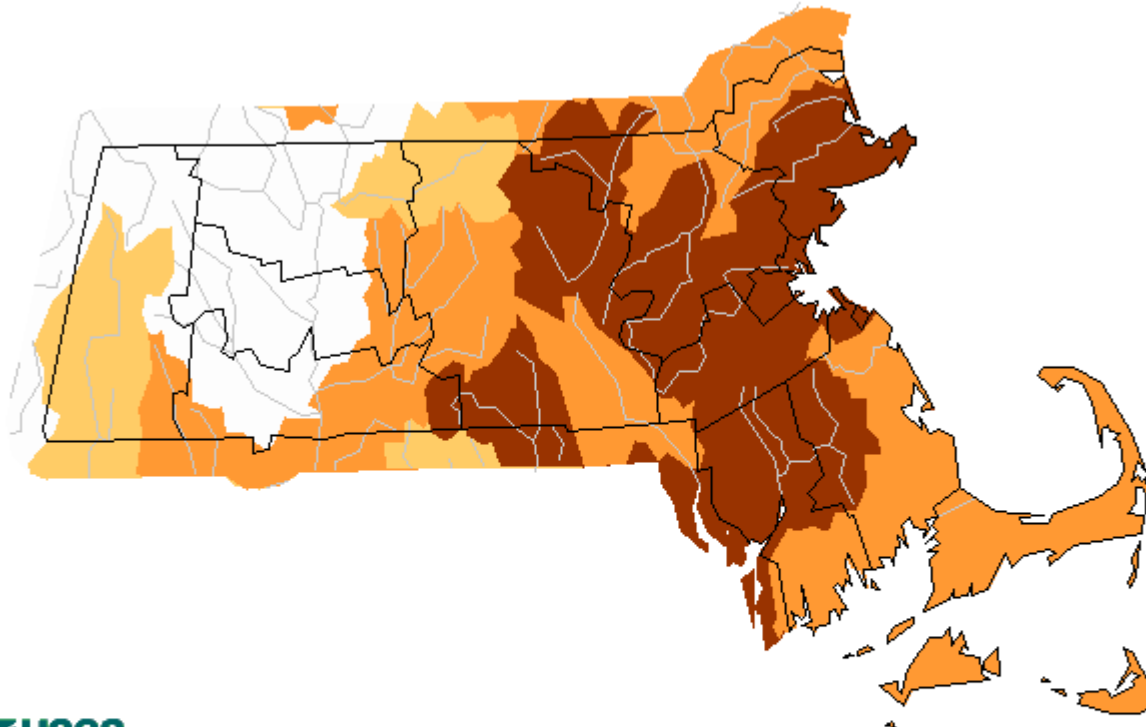
STREAMFLOW IN SELECTED USGS STREAMGAGES, 2015 AND 2016 WATER YEARS

- - - - - MONTHLY MEAN DISCHARGE FOR PERIOD OF STATION RECORD
 -○- MONTHLY MEAN DISCHARGE DURING 2015 AND 2016 WATER YEARS
 UNSHADED AREA SHOWS RANGE BETWEEN HIGHEST AND LOWEST
 MONTHLY MEAN DISCHARGE FOR PERIOD OF STATION RECORD




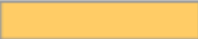
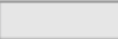


7-day average streamflow conditions in Massachusetts Aug. 3-9, 2016

Tuesday, August 09, 2016

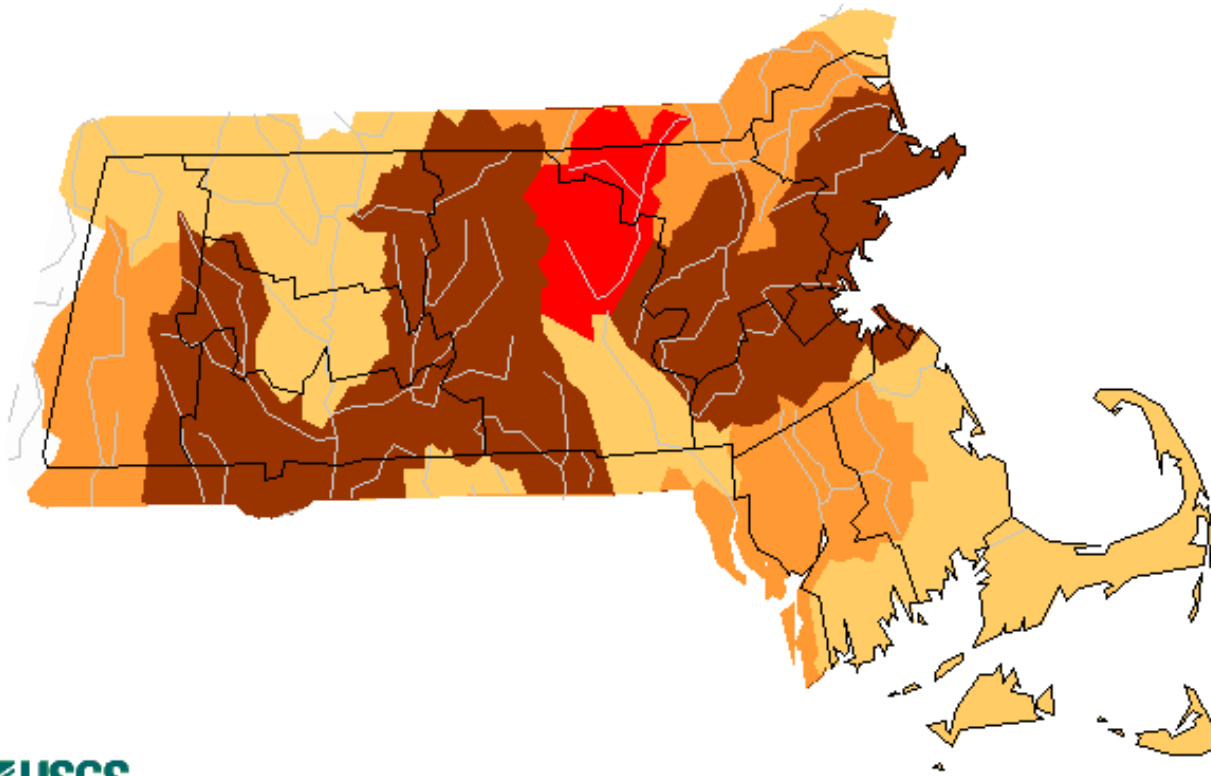



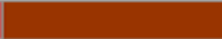


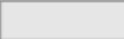
Click map to obtain more detailed drought information for the state

Explanation - Percentile classes				
				
Low	<=5	6-9	10-24	Insufficient data for a hydrologic region
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	

Below normal average monthly streamflow in Massachusetts July 2016

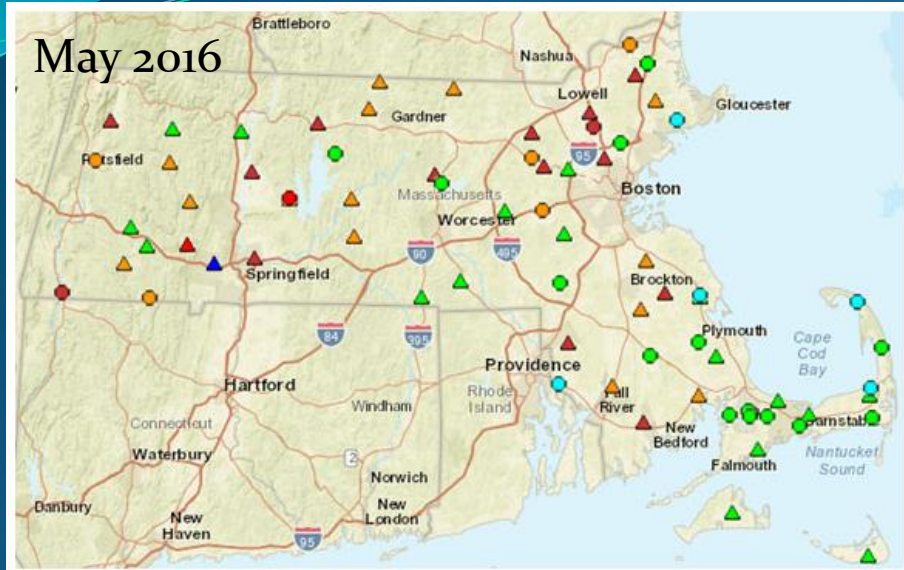
July 2016



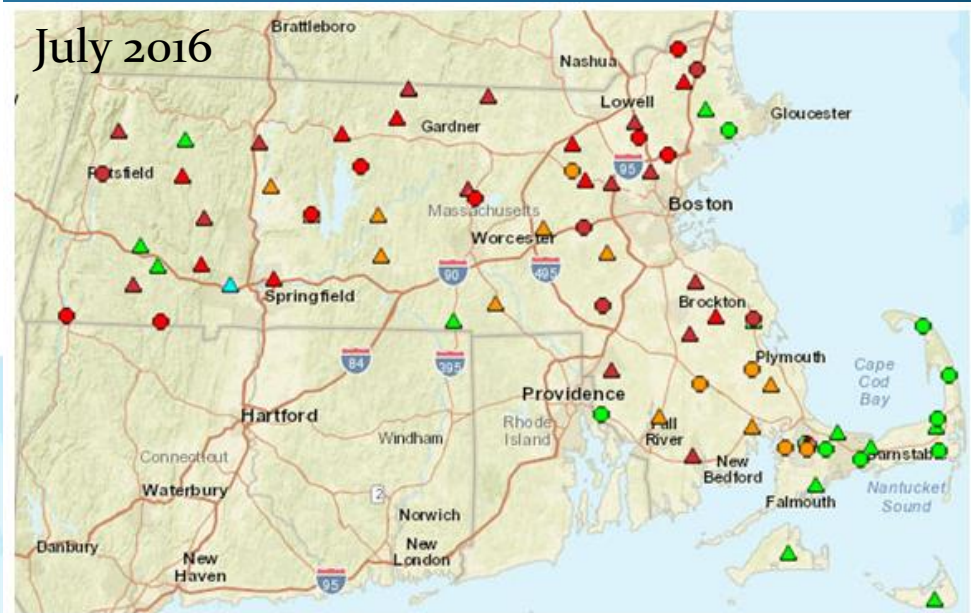
Explanation - Percentile classes				
				
Low	<=5	6-9	10-24	Insufficient data for a hydrologic region
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	

Massachusetts Groundwater Conditions During May, June, and July 2016

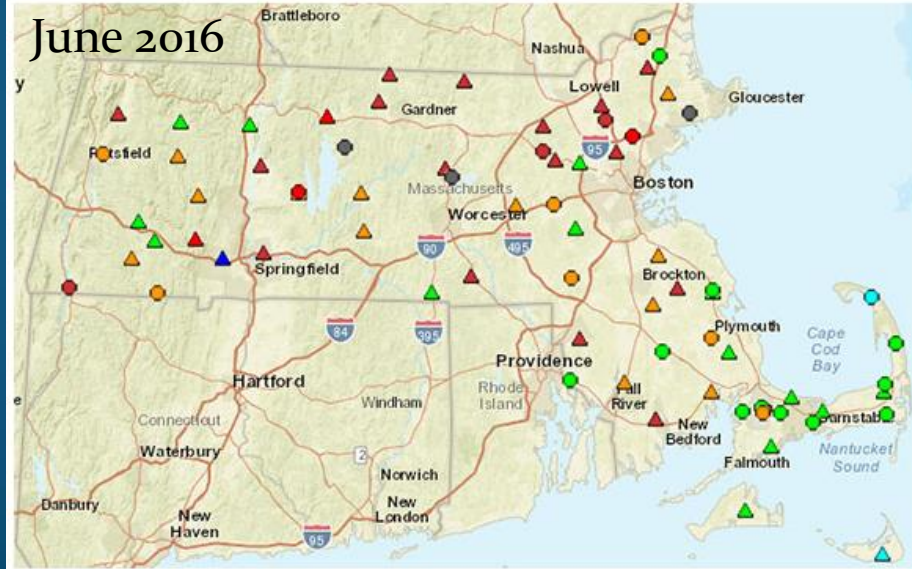
May 2016



July 2016



June 2016

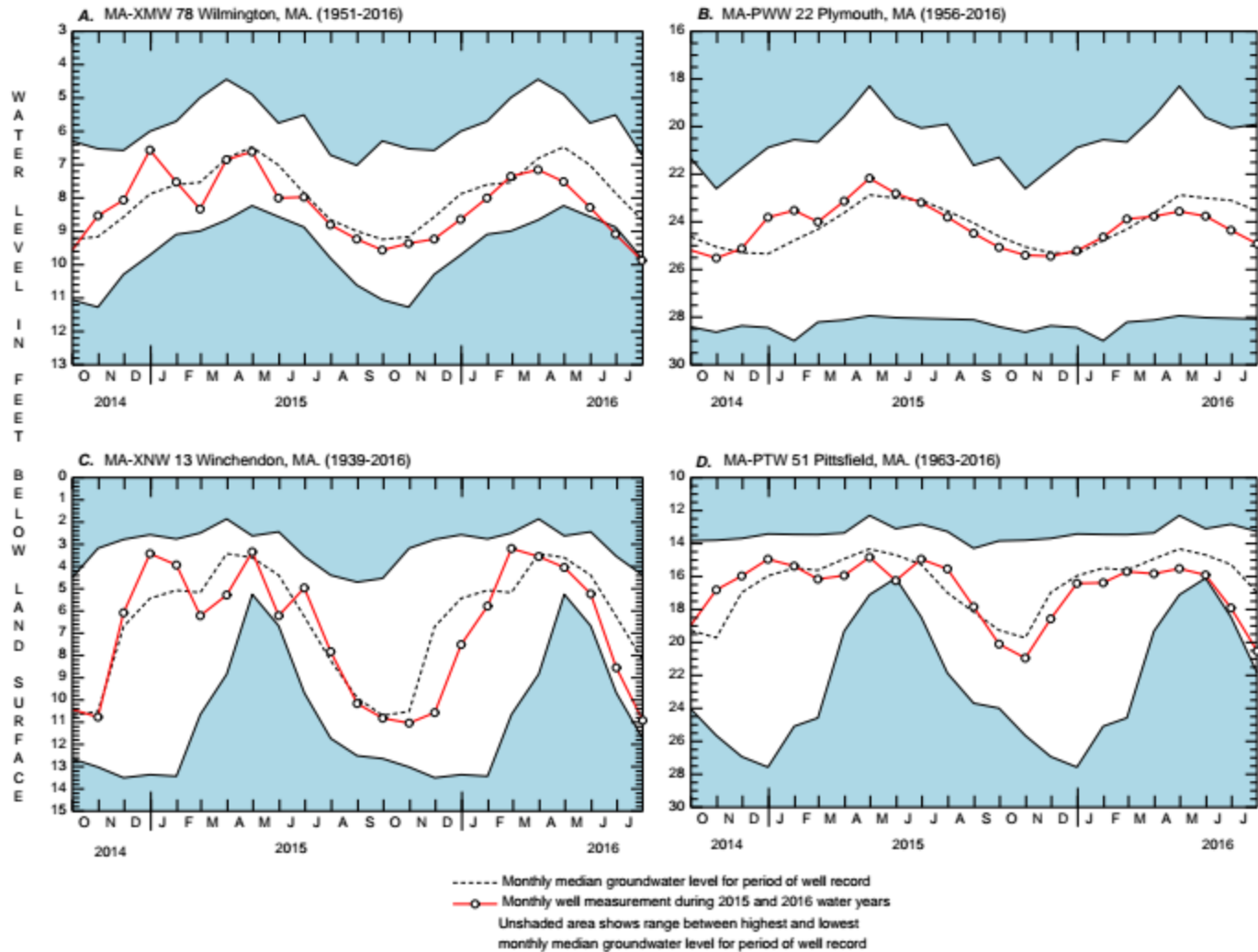


Explanation - Percentile classes

●	●	●	●	●	●	●	○ Real Time
New Low	<10 Much Below Normal	10-24 Below Normal	25-75 Normal	76-90 Above Normal	>90 Much Above Normal	New High	□ Continuous
						Not Ranked	△ Periodic Measurements

Monthly Groundwater Levels at Selected USGS Observation Wells in Massachusetts October 2014 to July 2016

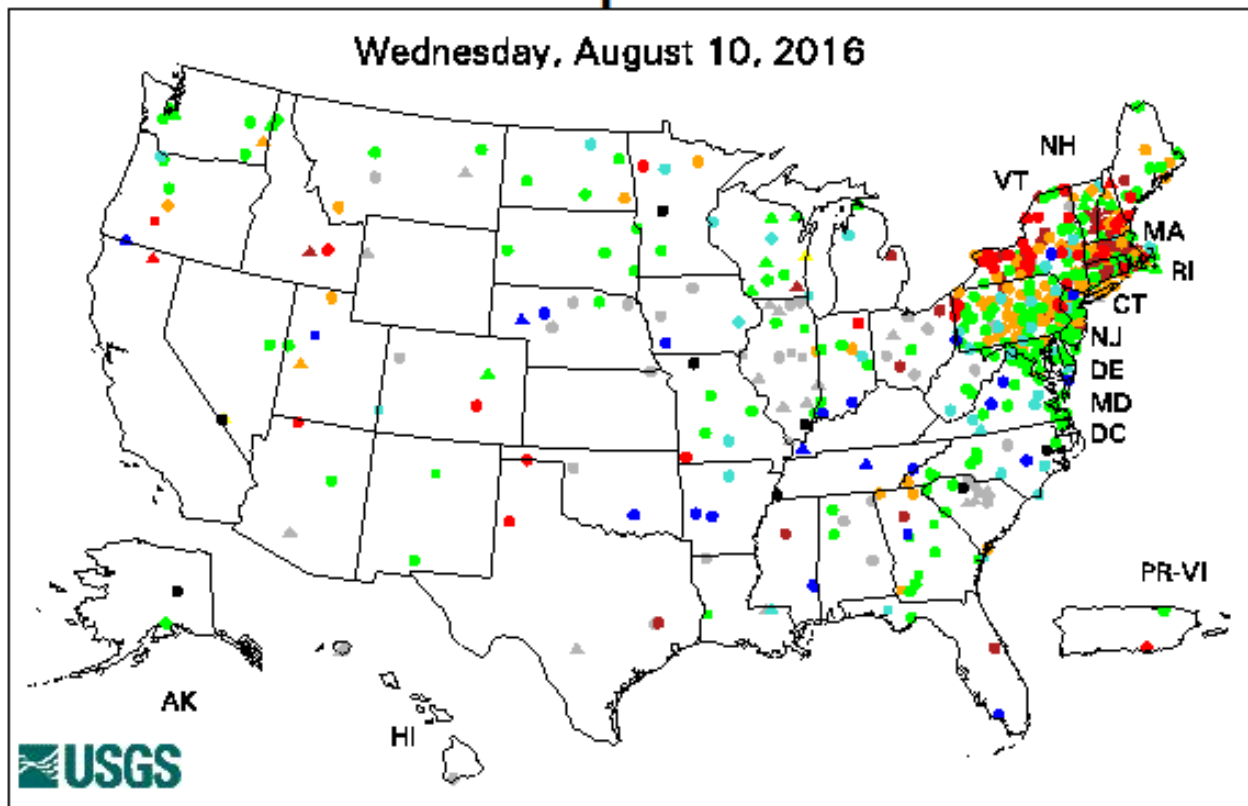
GROUNDWATER LEVELS IN SELECTED USGS OBSERVATION WELLS, 2015 AND 2016 WATER YEARS



National Groundwater Conditions, August 10, 2016

Climate Response Network

Wednesday, August 10, 2016



Explanation - Percentile classes (symbol color based on most recent measurement)

									Real Time
									Continuous
									Periodic Measurements
Low	<10	10-24	25-75	76-90	>90	High	Not Ranked		
	Much Below Normal	Below Normal	Normal	Above Normal	Much Above Normal				

Climate Response Network Well Count: 590

Map generated 8/10/2016 9:06:59 AM

Questions??

