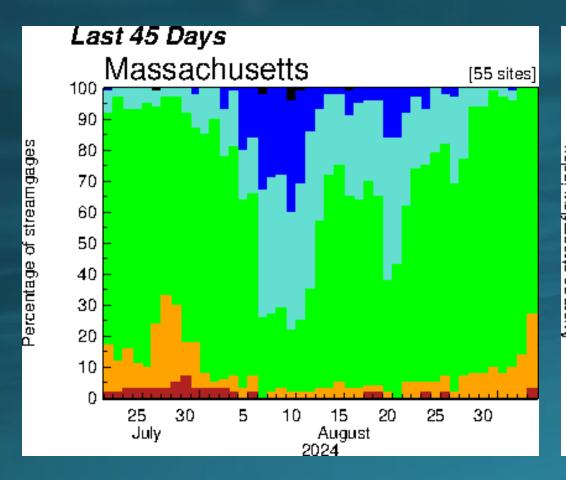
Streamflow and Groundwater Conditions in Massachusetts

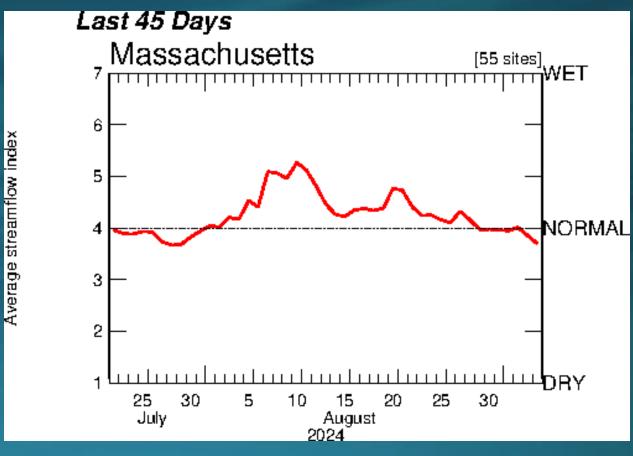
Massachusetts Drought Task Force Meeting September 9, 2024

U.S. Geological Survey
New England Water Science Center
Brian Loving



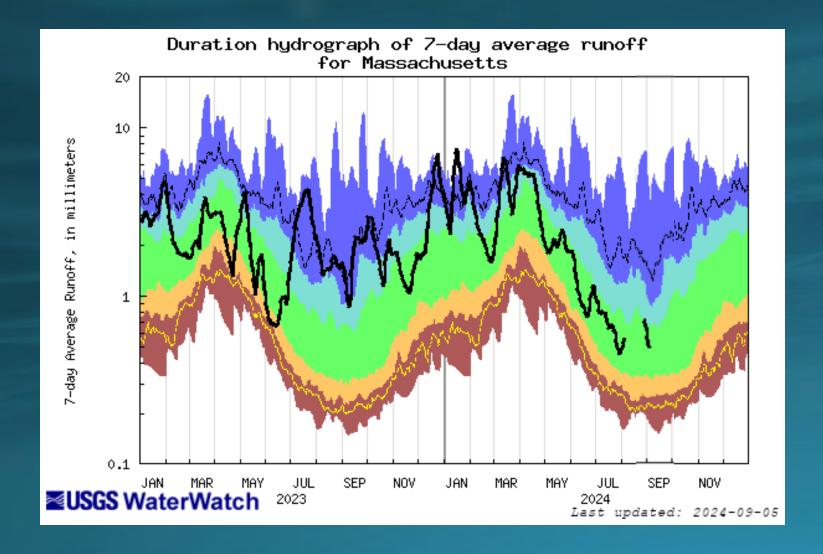
Streamflow Conditions – last 45 days





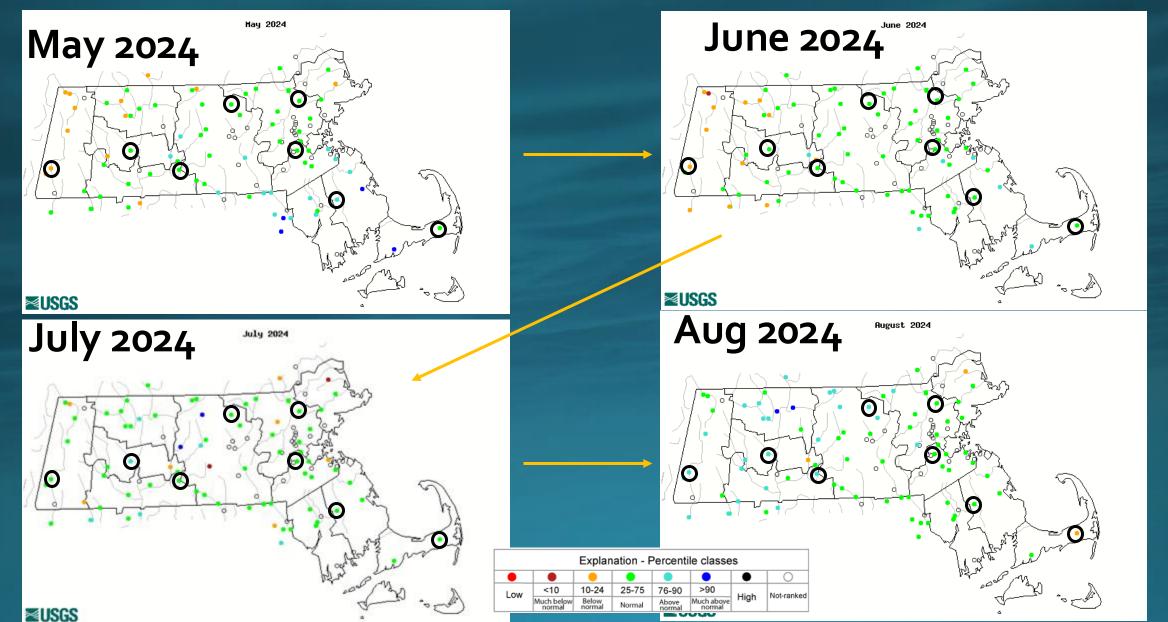
Explanation - Percentile classes													
Low	<10	10-24	25-75	76-90	>90	High	No Data						
LOW	Much below normal	Below normal	Normal	Above normal	Much above normal								

Streamflow Conditions 7-Day Moving Average

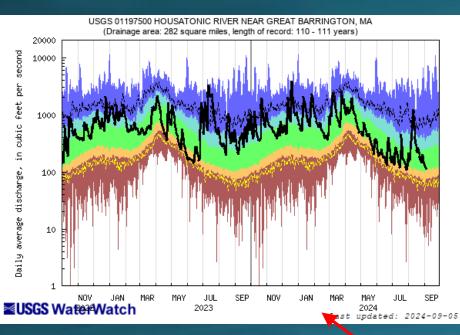


Explanation - Percentile classes											
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff				
Much below Normal		Below normal	Normal	Above normal	Much above normal						

Streamflow Conditions – Monthly Average



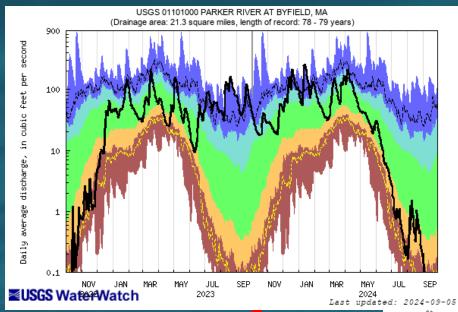
SW Conditions 7-Day Average



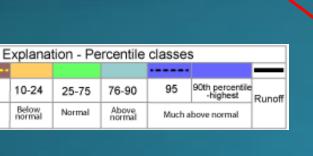
Above,

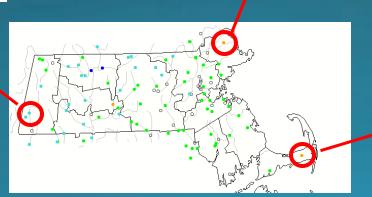
lowest-

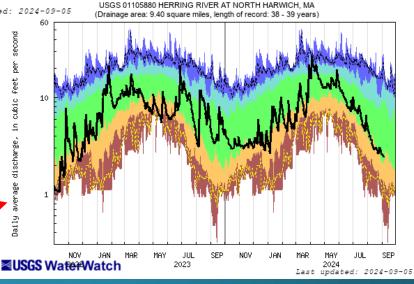
10-24



Parker at Byfield was o.10 cfs on 9/5/24; median is 2.0 cfs



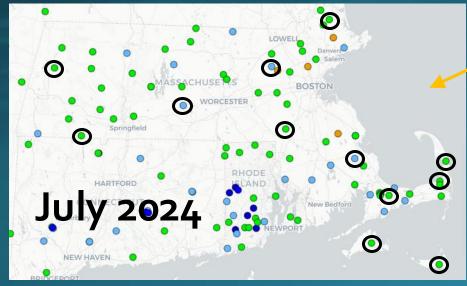


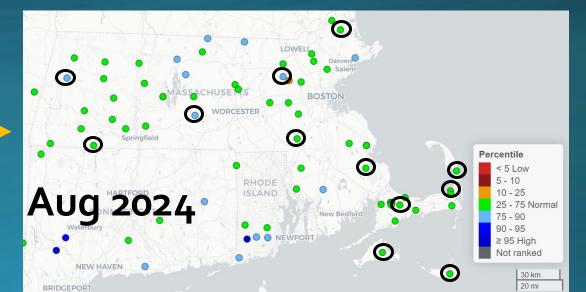


Groundwater Conditions – End of Month

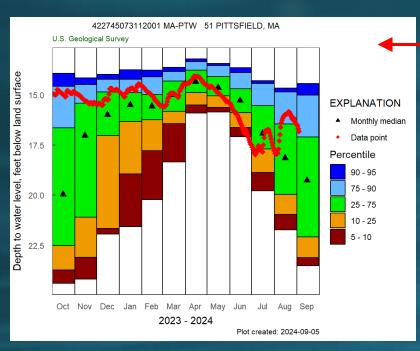




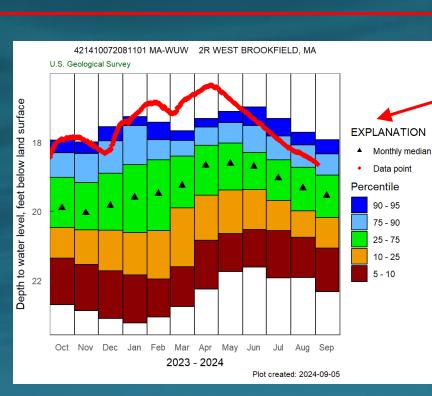




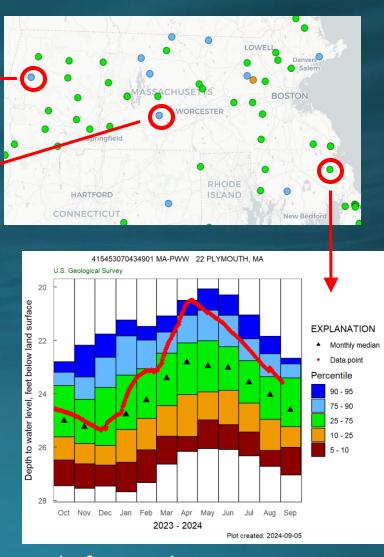
GW - Western, Central, and Southeast Regions



Period of Record: 60 yrs; Cont. 39 yrs



Period of Record: 64 yrs; Cont. 6 yrs



Period of Record: 64 yrs; Cont. 10 yrs



- Streamflow conditions improved from July to August in all drought regions across Massachusetts except the Cape, where one of the two index monitoring stations trended down from normal to below normal.
- All but one of the groundwater stations monitored by USGS for climate response in Massachusetts were in the normal to above normal range during August, which is a slight improvement from the July conditions.