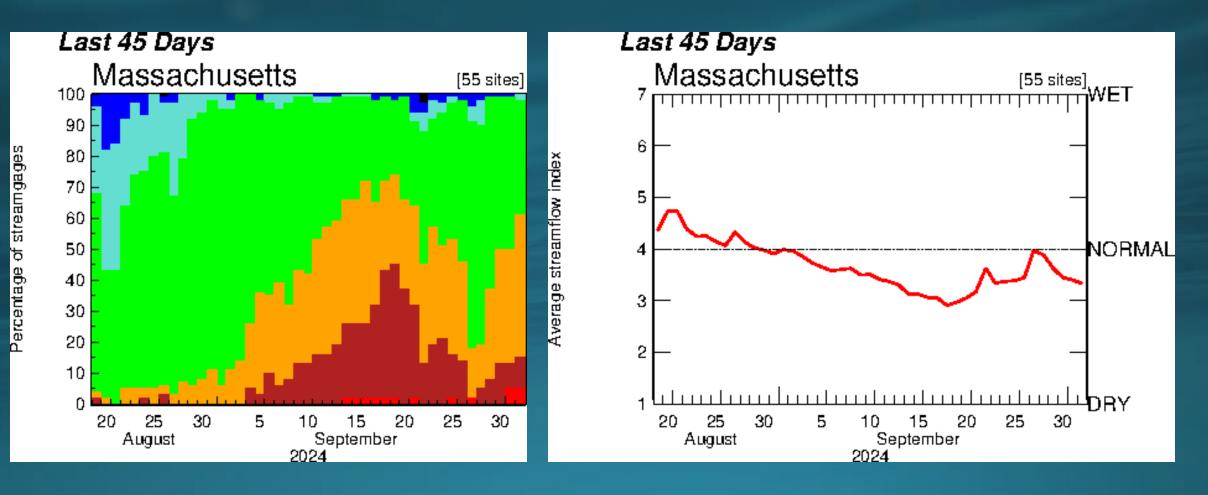
Streamflow and Groundwater Conditions in Massachusetts

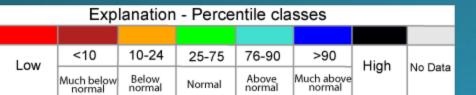
Massachusetts Drought Task Force Meeting October 10, 2024

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

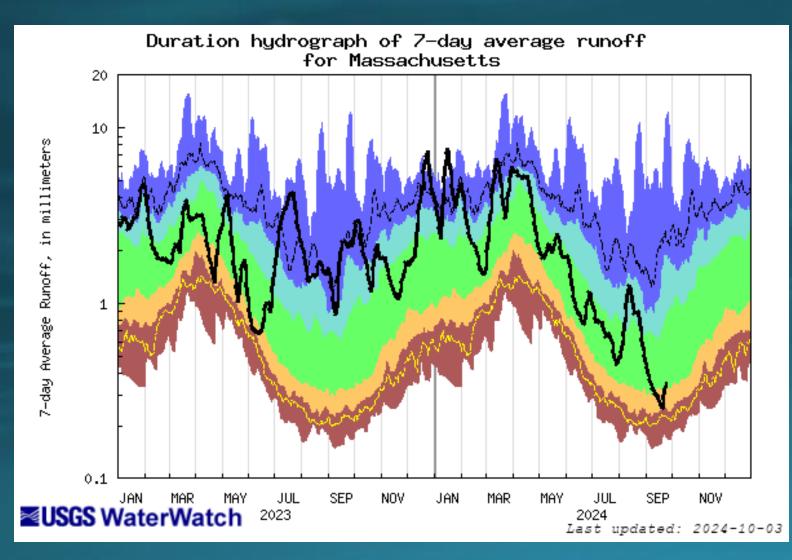
> > science for a changing work

Streamflow Conditions – last 45 days



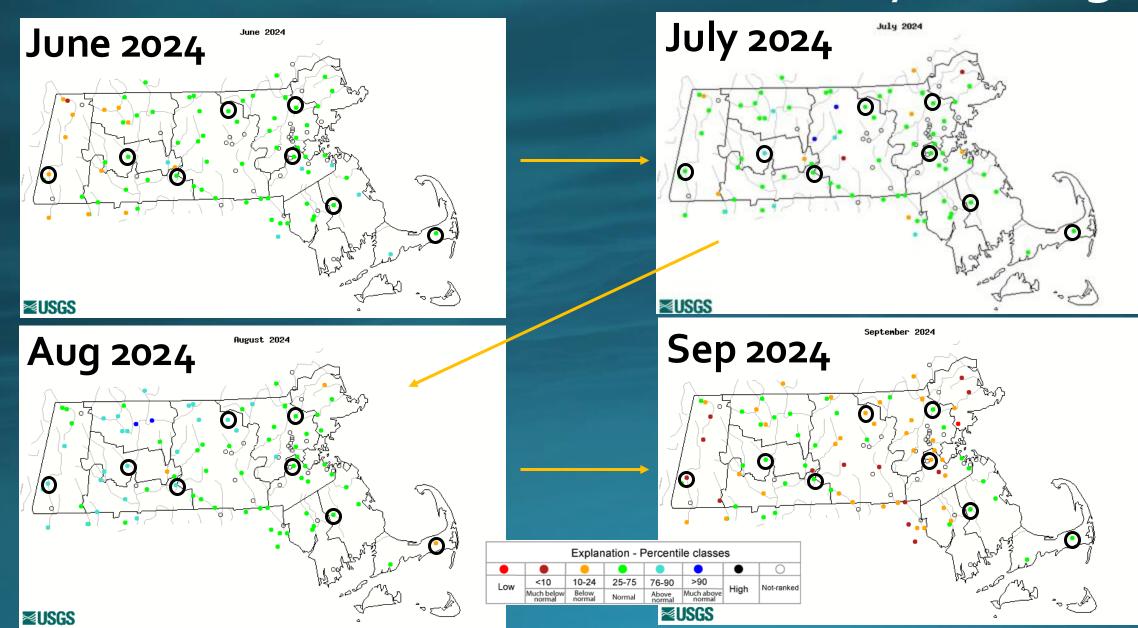


Streamflow Conditions 7-Day Moving Average

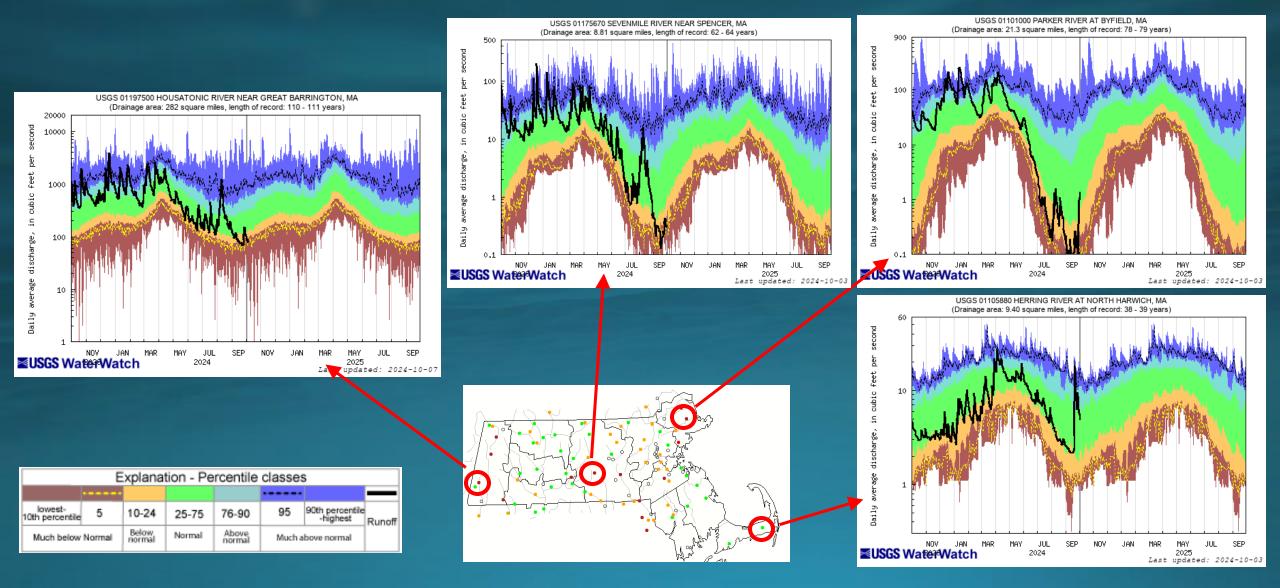


Explanation - Percentile classes							
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff
Much below Normal		Below normal	Normal	Above normal	Much above normal		

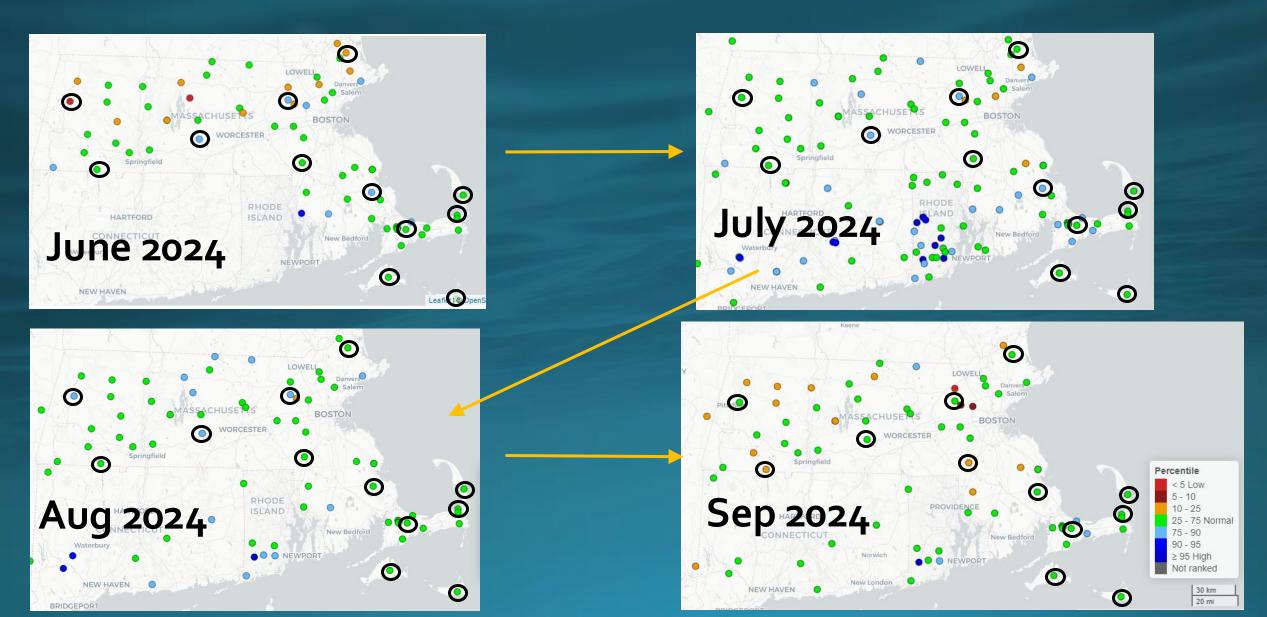
Streamflow Conditions – Monthly Average



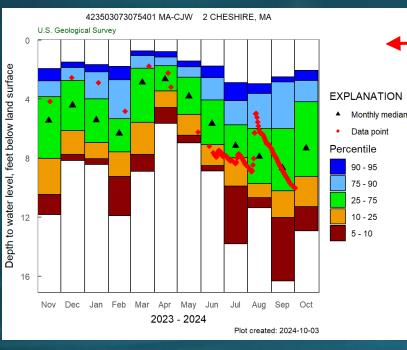
SW Conditions 7-Day Average



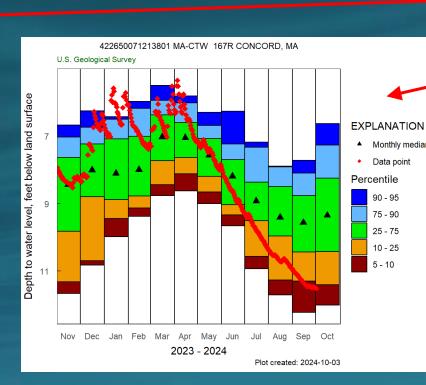
Groundwater Conditions – End of Month



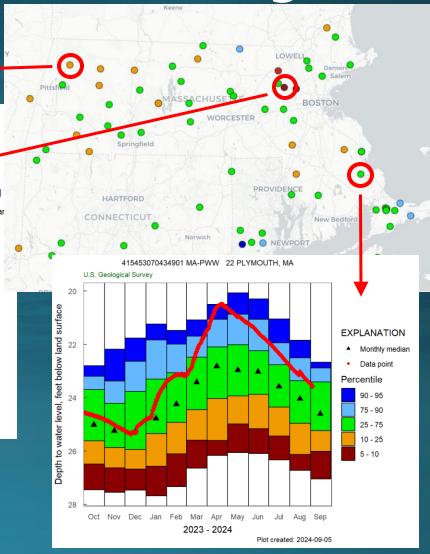
GW - Western, Central, and Southeast Regions



Period of Record: 69 yrs; Cont. o.3 yrs



Period of Record: 58 yrs; Cont. 2 yrs



Period of Record: 64 yrs; Cont. 10 yrs

Summary of Conditions

 Streamflow conditions were seasonally much lower in September than August, in all drought regions across Massachusetts except the Cape. September conditions ranged from above normal in the Cape Region to below normal in the northern part of the Southeast Region, and were generally below to much below normal across the rest of the Commonwealth. (No USGS streamgages on the Islands)

 Groundwater condition trends were similar to streamflow, with conditions generally getting worse and becoming below to much below normal everywhere except the Cape and Islands.