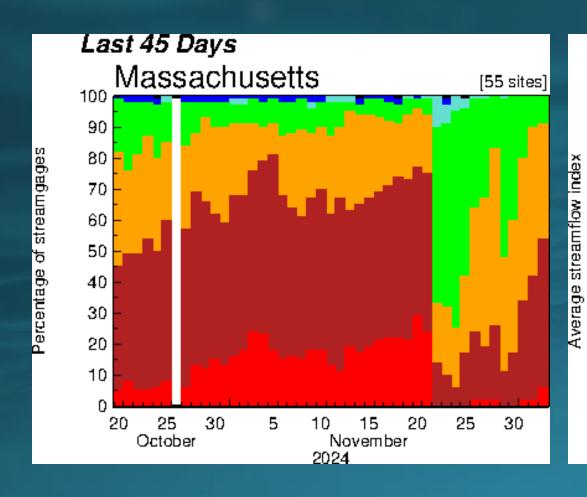
Streamflow and Groundwater Conditions in Massachusetts

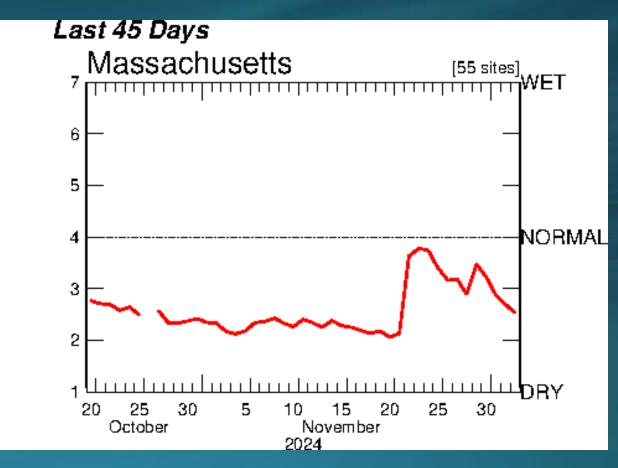
Massachusetts Drought Task Force Meeting December 5, 2024

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



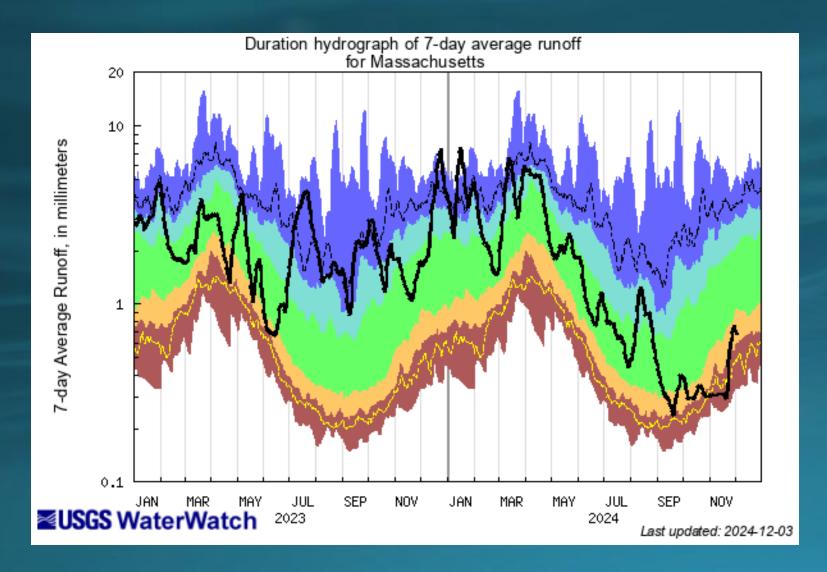
Streamflow Conditions – last 45 days





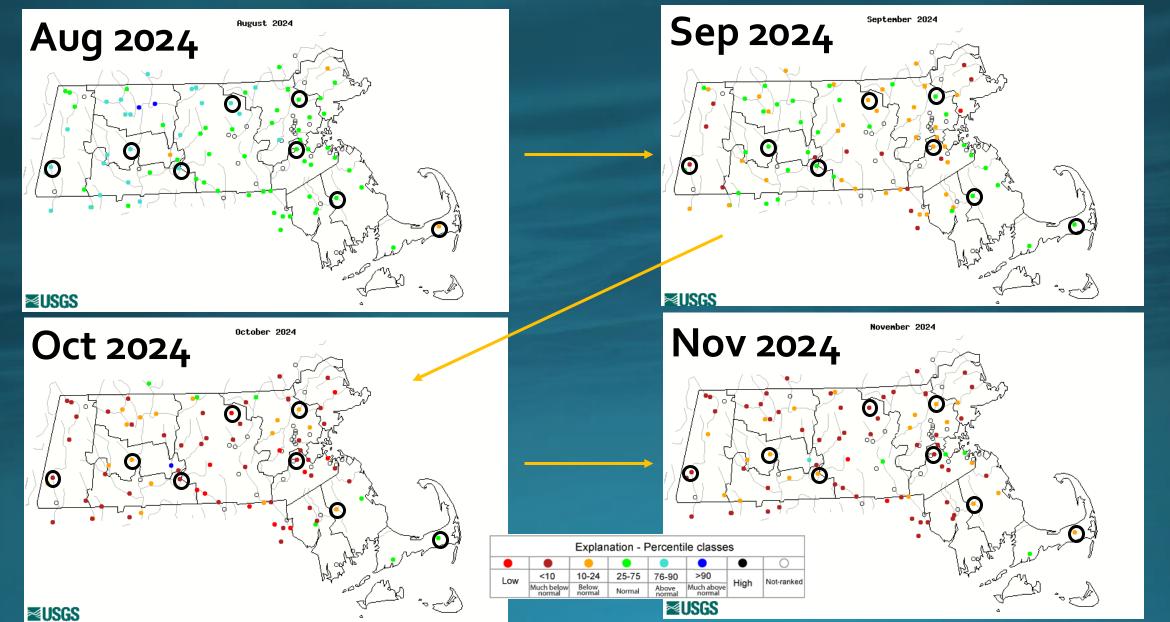
	Exp	lanation	- Perce	ntile cla	sses		
Low	<10	10-24	25-75	76-90	>90	High	No Data
LOW	Much below normal	Below normal	Normal	Above normal	Much above normal		

Streamflow Conditions 7-Day Moving Average

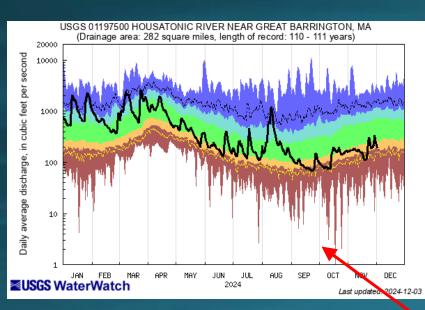


Explanation - Percentile classes								
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff	
Much below Normal		Below normal	Normal	Albove normal	Much above normal			

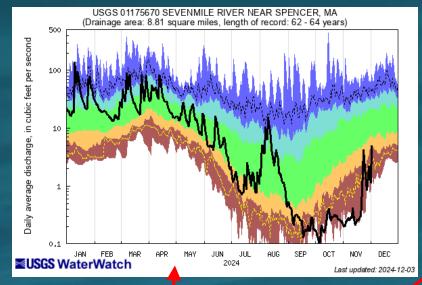
Streamflow Conditions – Monthly Average

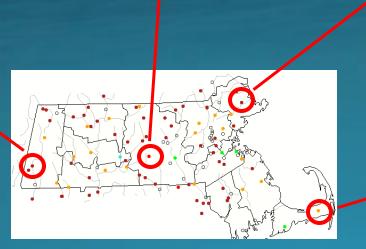


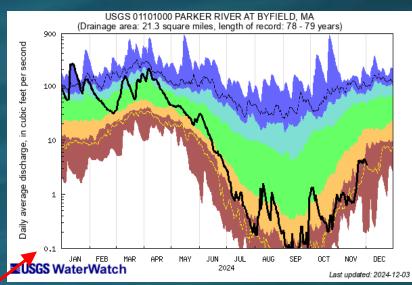
SW Conditions 7-Day Average

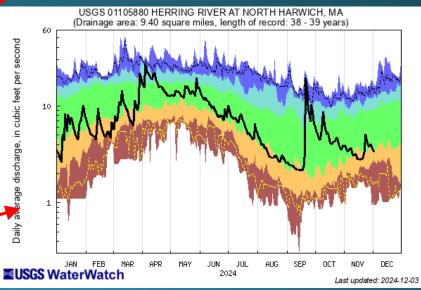


Explanation - Percentile classes									
						_			
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff		
Much below Normal		Below normal	Normal	Above normal	Much above normal				









Groundwater Conditions – Beg. of Month

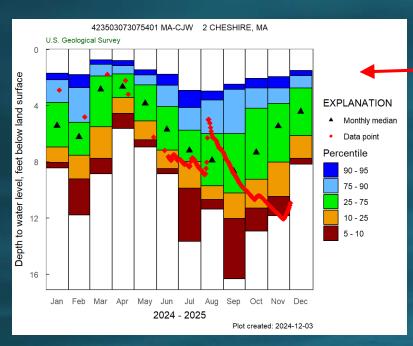




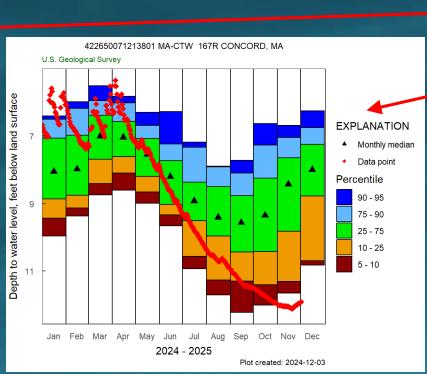




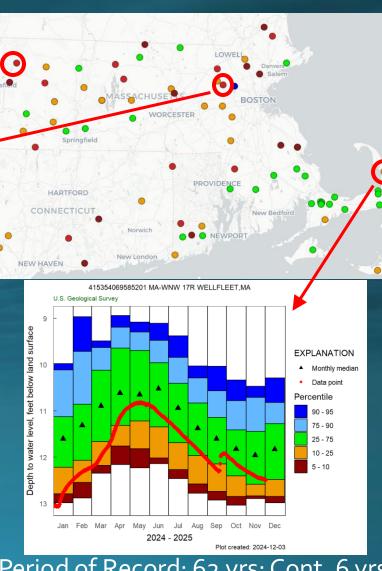
Groundwater Conditions – Specific Wells



Period of Record: 70 yrs; Cont. 0.6 yrs



Period of Record: 58 yrs; Cont. 2 yrs



Period of Record: 62 yrs; Cont. 6 yrs

Summary of Conditions

- The precipitation event of Nov. 22-23 greatly improved streamflow conditions relative to seasonal norms, and late November conditions were a little better than late October. Still, nearly all USGS streamgages in Massachusetts reported flows below the 25th percentile for November.
- Groundwater levels lag in response to climatic conditions, and generally continue to decline relative to normal seasonal trends. During November, conditions improved very slightly in the Connecticut River and Southeast Regions, but were stable to slightly worse in the other regions.