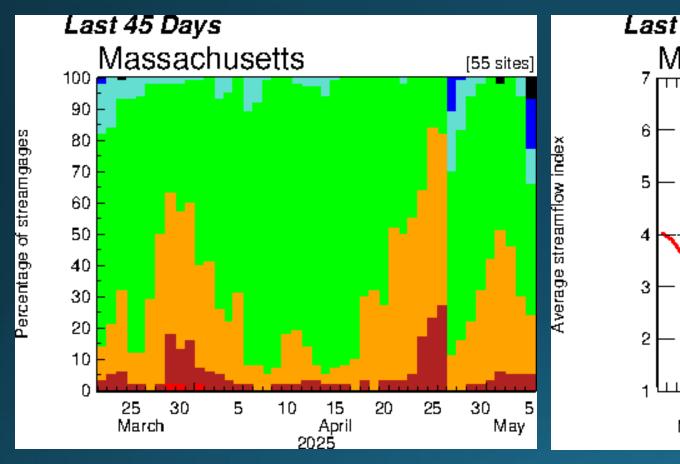
#### Streamflow and Groundwater Conditions in Massachusetts

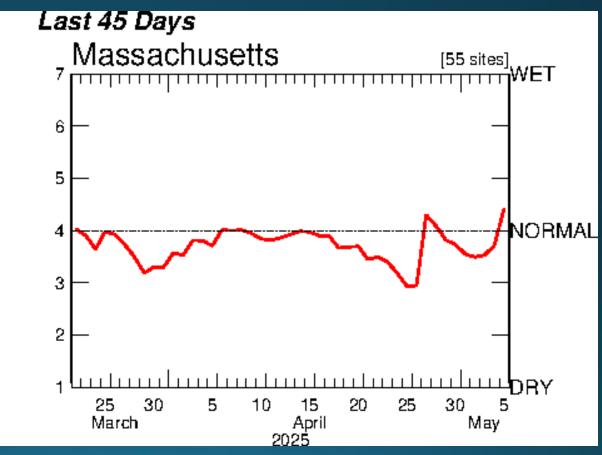
# Massachusetts Drought Task Force Meeting May 7, 2025

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



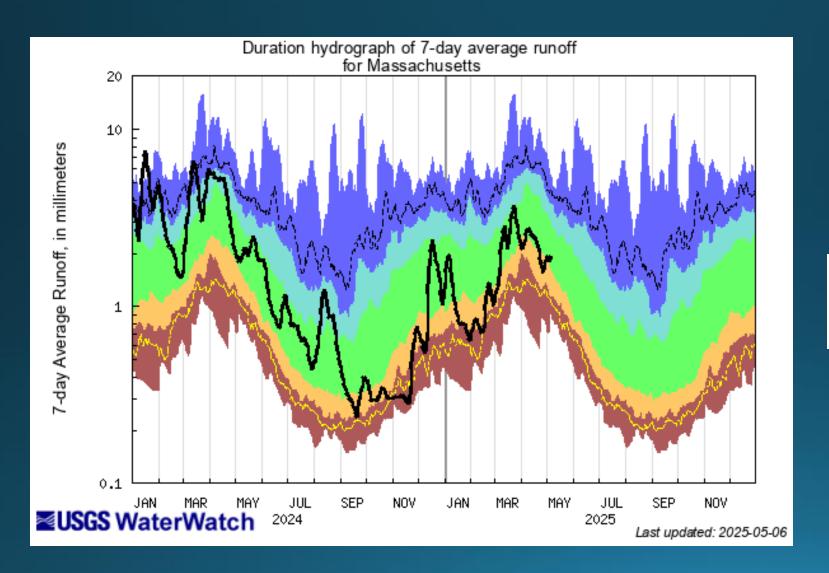
## Streamflow Conditions – last 45 days





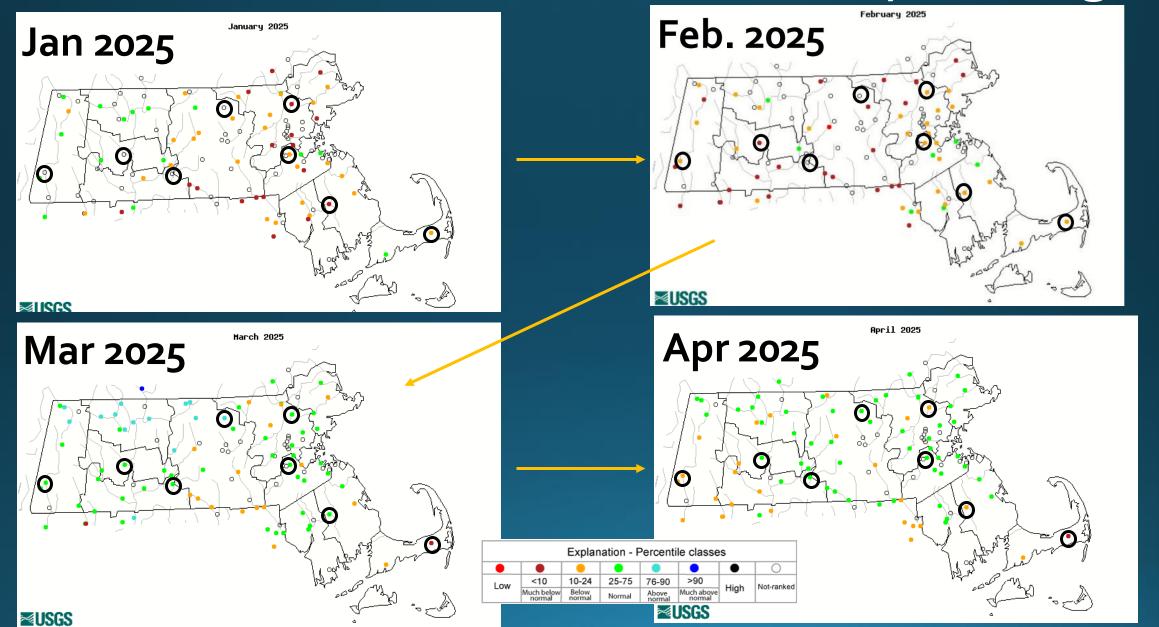
Explanation - Percentile classes									
Low	<10	10-24	25-75	76-90	>90	High	No Data		
LOW	Much below normal	Below normal	Normal	Above normal	Much above normal				

### Streamflow Conditions 7-Day Moving Average

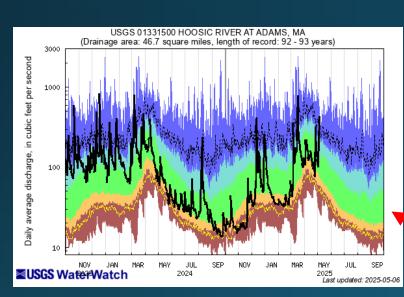


Explanation - Percentile classes								
							_	
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff	
Much below Normal		Below normal	Normal	Albove normal	Much above normal			

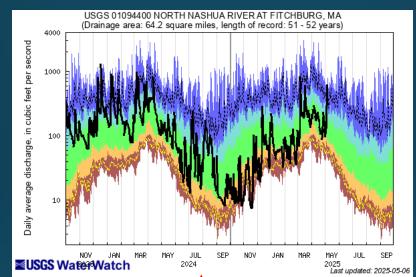
#### Streamflow Conditions – Monthly Average

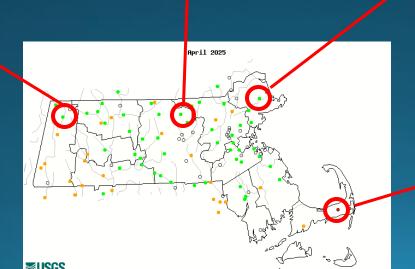


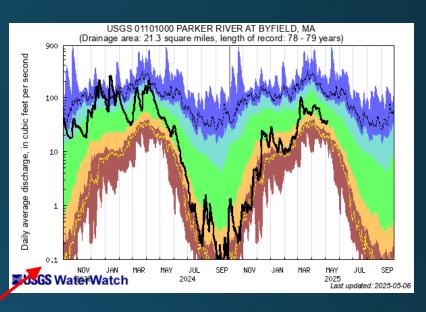
## SW Conditions 7-Day Average

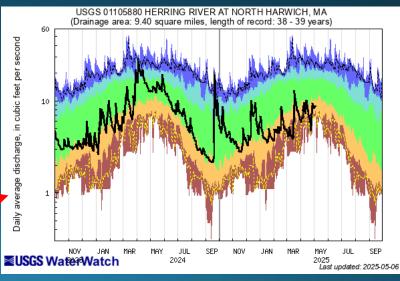


	Explanation - Percentile classes								
							_		
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff		
Much below	Much below Normal		Normal	Above normal	Much above normal				









#### Groundwater Conditions –End of Month

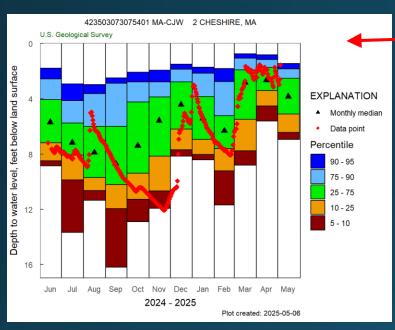




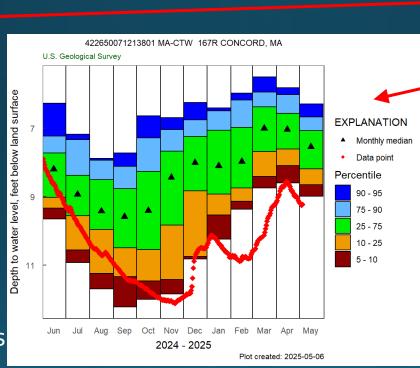




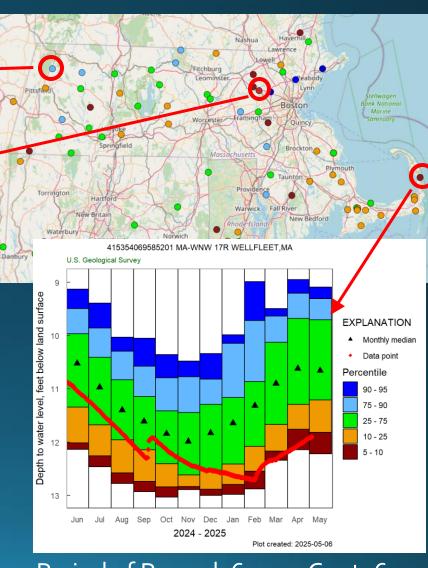
## Groundwater Conditions – Specific Wells



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**

- Other than runoff from one significant precipitation event around April 26-27, steamflow generally declined during April across Massachusetts. April streamflow percentiles were lower in April than March at nearly all sites, with exceptions at a few sites in the Northeast Region and the Quinebaug. The Cape continues to be the region with the lowest flows relative to normal.
- Groundwater-level conditions in April were generally a little better than March, as March had more precipitation than other recent months and GW conditions lag precip. Still "below" to "much below" normal conditions for most wells in Middlesex County and the Cape and Islands.