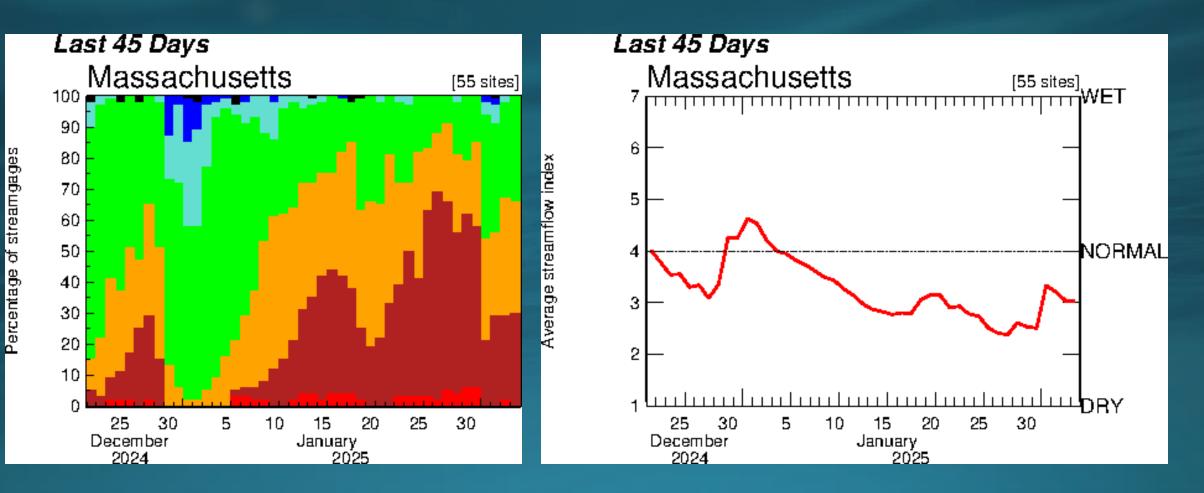
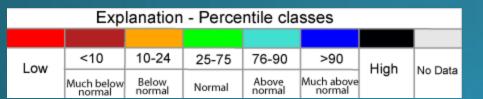
Streamflow and Groundwater Conditions in Massachusetts

Massachusetts Drought Task Force Meeting February 6, 2025

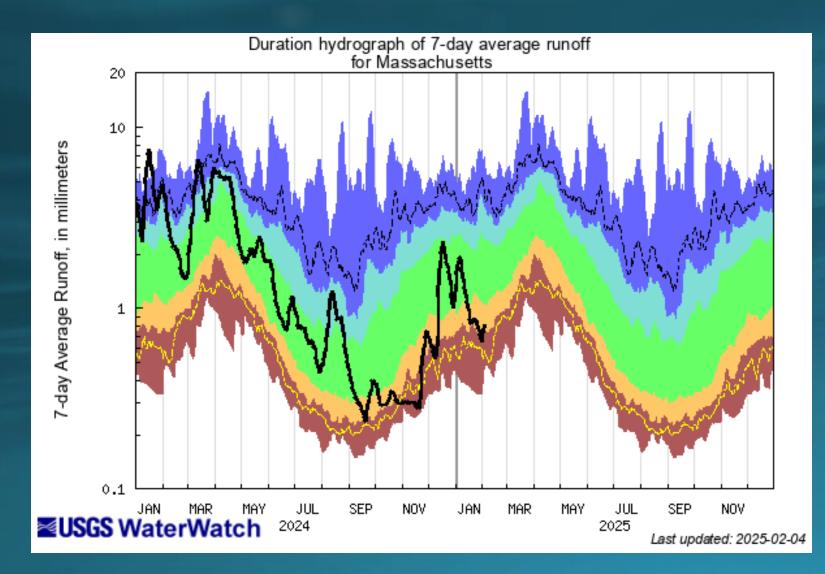
> U.S. Geological Survey New England Water Science Center Brian Loving

# Streamflow Conditions – last 45 days



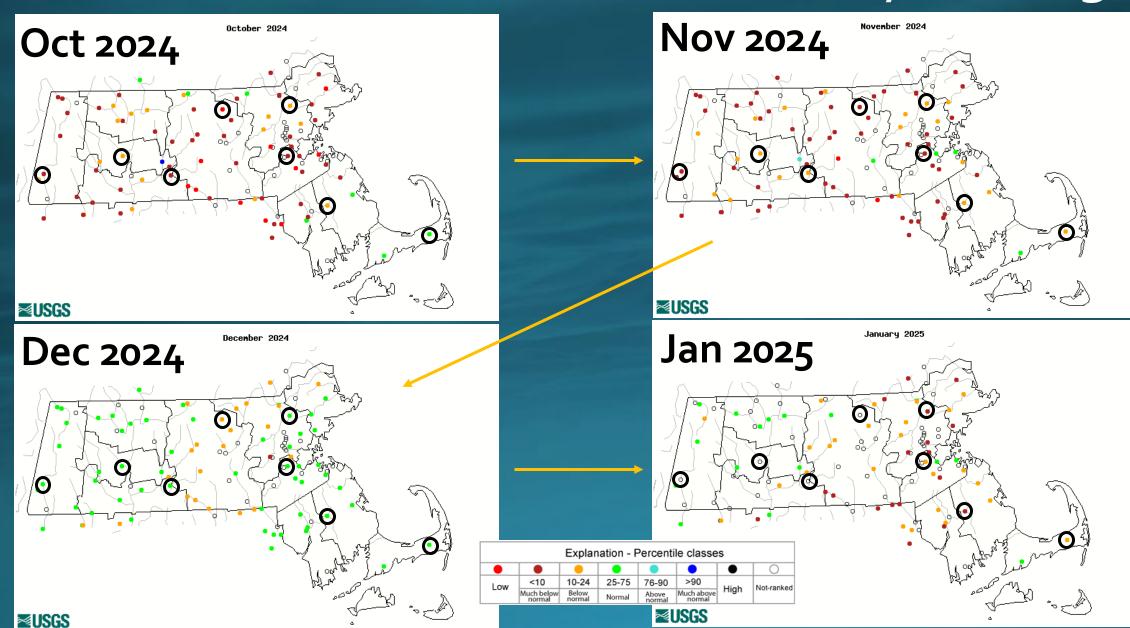


### Streamflow Conditions 7-Day Moving Average

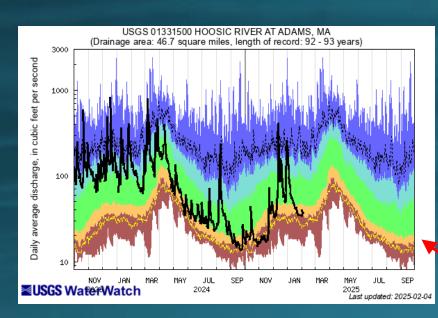


Explanation - Percentile classes											
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff				
Much below Normal		Below normal	Normal	Above normal	Much above normal						

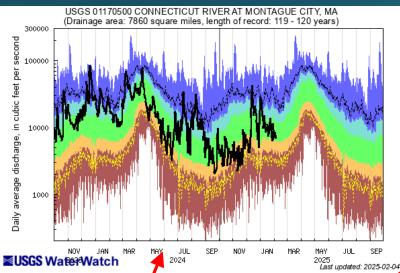
#### Streamflow Conditions – Monthly Average



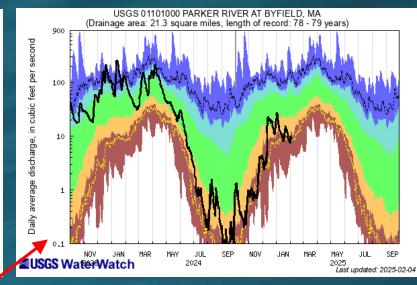
## SW Conditions 7-Day Average



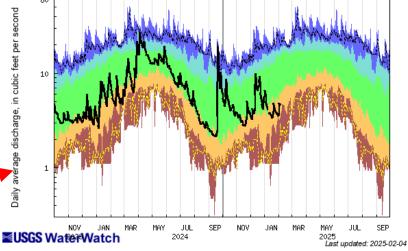
Explanation - Percentile classes											
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff				
Much below Normal		Below, normal	Normal	Above normal	Much above normal						



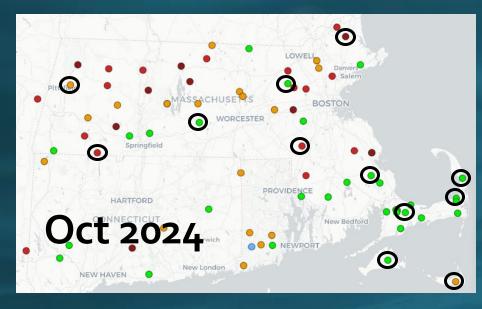




USGS 01105880 HERRING RIVER AT NORTH HARWICH, MA (Drainage area: 9.40 square miles, length of record: 38 - 39 years)

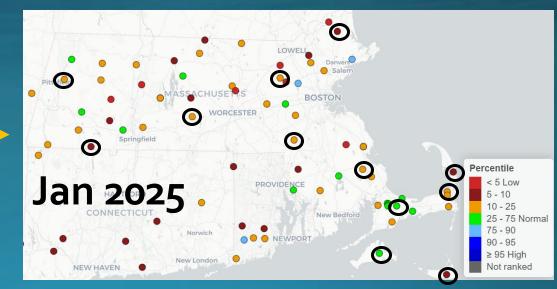


#### Groundwater Conditions – End of Month

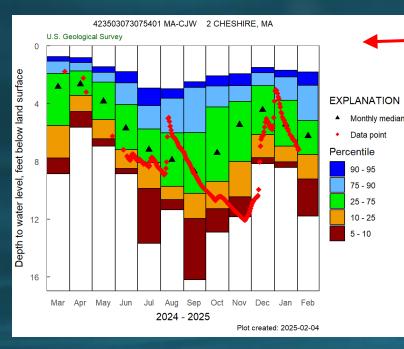




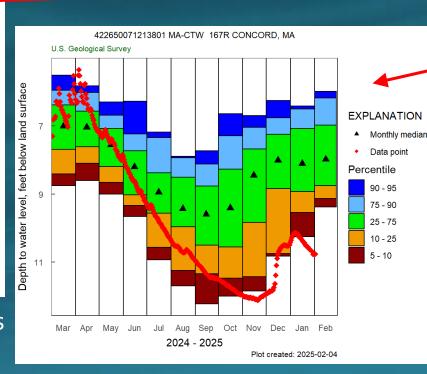




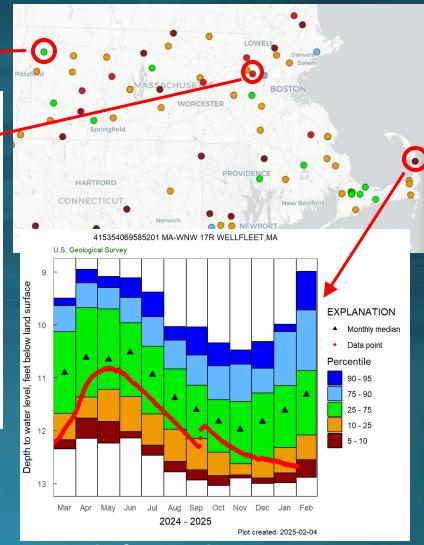
### Groundwater Conditions – Specific Wells



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**

 The presence of ice in the stream is preventing computations of streamflow at many gages. Where we have streamflow data, nearly all are lower at the end of January than at the beginning. Average January streamflow conditions were normal to below normal in the Western, Connecticut River, and Cape Regions, and below to much below normal elsewhere.

 Groundwater-level conditions also moved lower during the month of January at nearly all sites in the Commonwealth. Most wells in all regions are at levels that are below or much below normal. There are a few anomalous wells with above normal conditions.