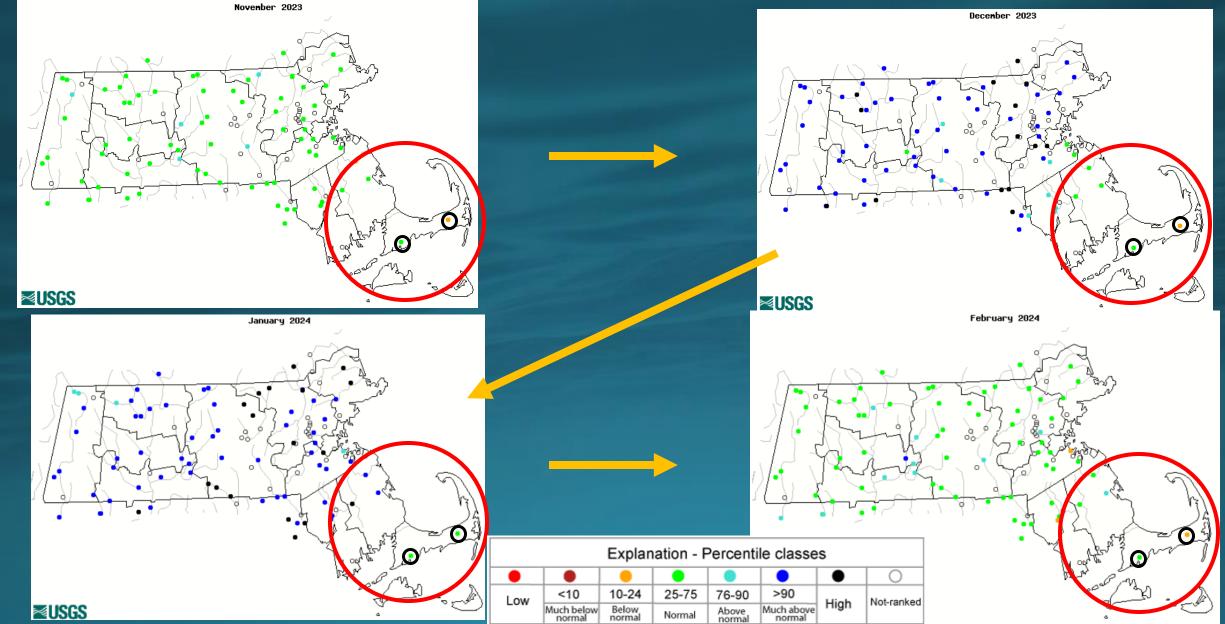
Streamflow and Groundwater Conditions in Massachusetts (Cape Cod and the Islands)

Massachusetts Drought Task Force Meeting
March 8, 2024

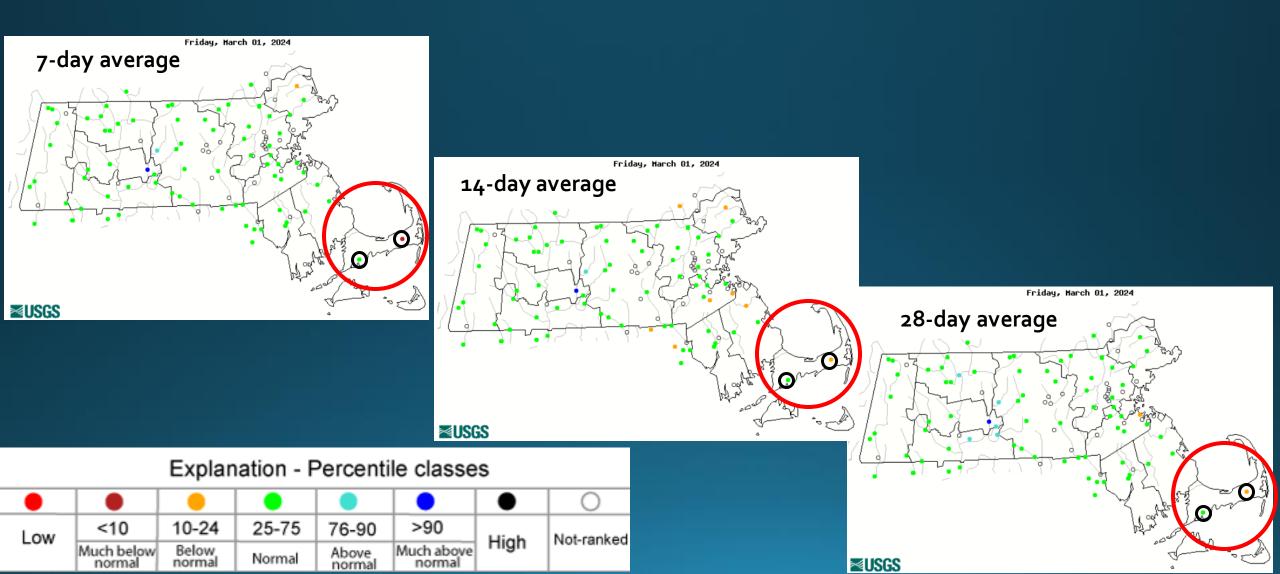
U.S. Geological Survey
New England Water Science Center



Streamflow Conditions – Monthly Average

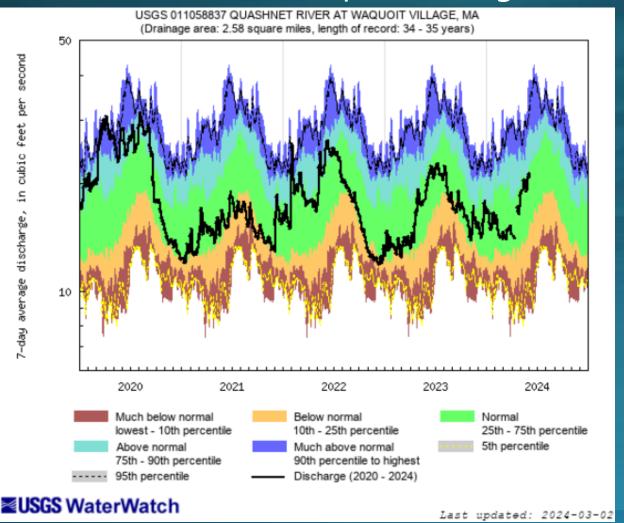


Streamflow Conditions 7-, 14-, and 28-Day Average

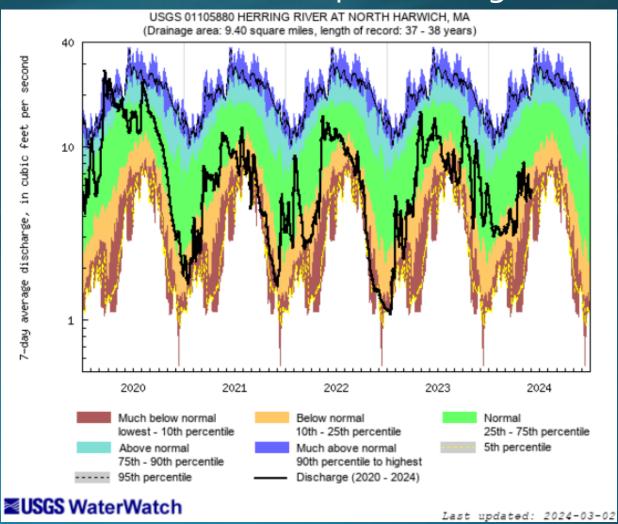


Cape Cod Region 7-Day Average 5-year period (WY2020-24)

Western Part of Cape Cod Region



Eastern Part of Cape Cod Region

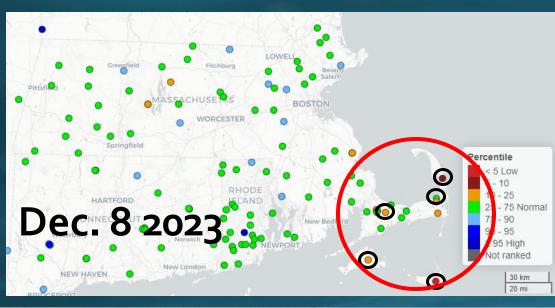


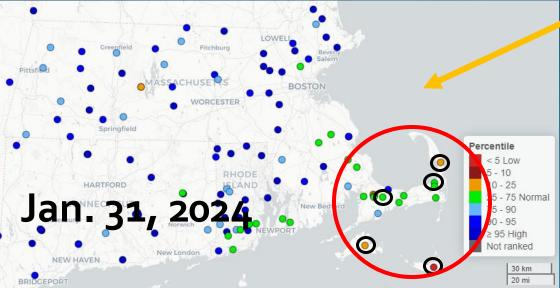
Summary of Streamflows on the Cape

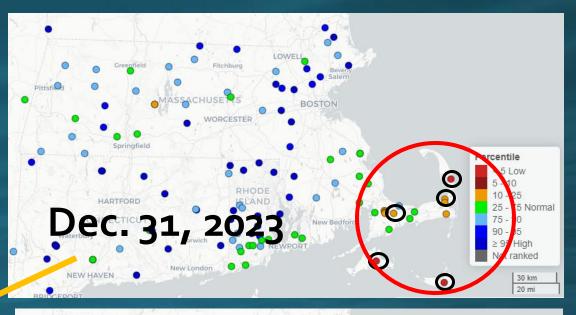
- Western Cape streamflows (Quashnet River at Waquoit Village)
 - were normal in February 2024
 - have been lower the last 3+ years, but have still been mainly normal

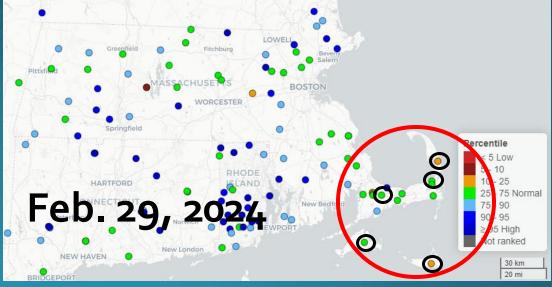
- Eastern Cape Cod streamflows (Herring River at North Harwich)
 - were below normal in February 2024
 - have been below normal for a significant part of the last 3+ yrs (since fall of 2020)

Groundwater Conditions

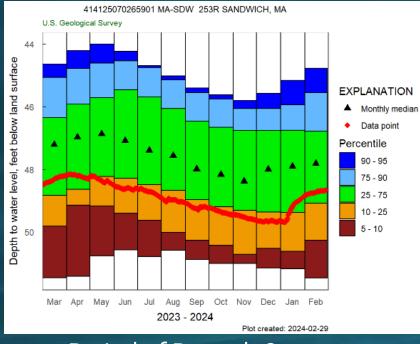




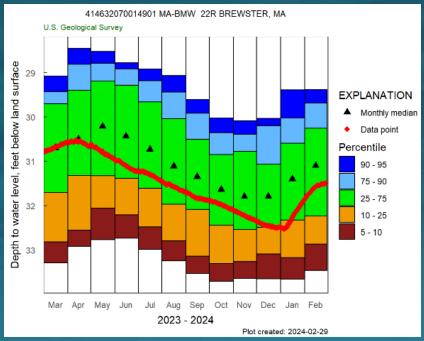




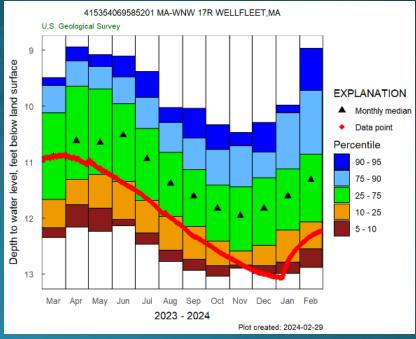
Cape Cod Region (West to East)



Period of Record: 61 yrs; continuous 11 yrs

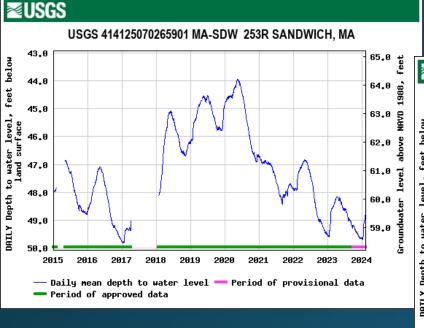


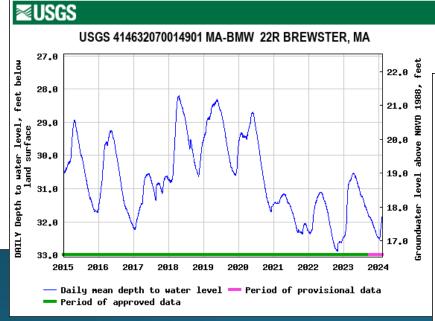
Period of Record: 61 yrs; continuous 22 yrs

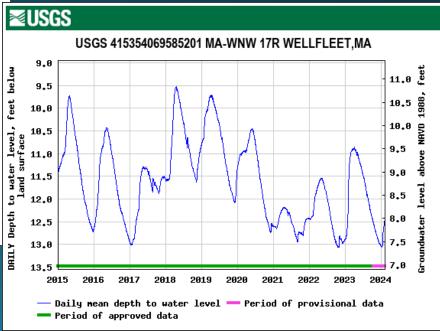


Period of Record: 61 yrs; cont. 11 yrs

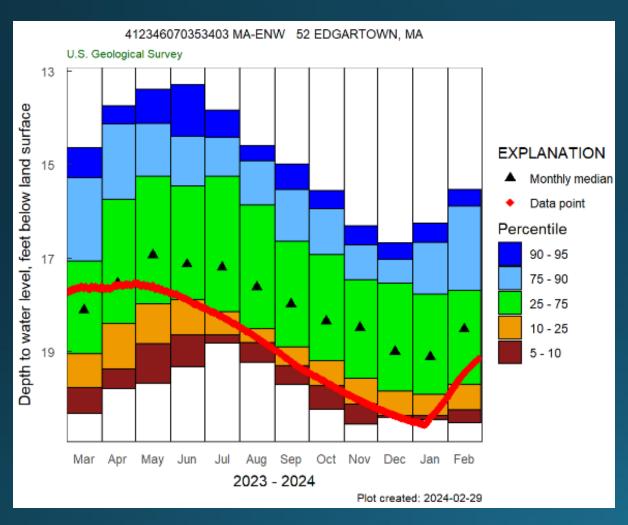
Cape Cod Selected Cont. WL Data (West to East) 10-year period (WY 2015-24)

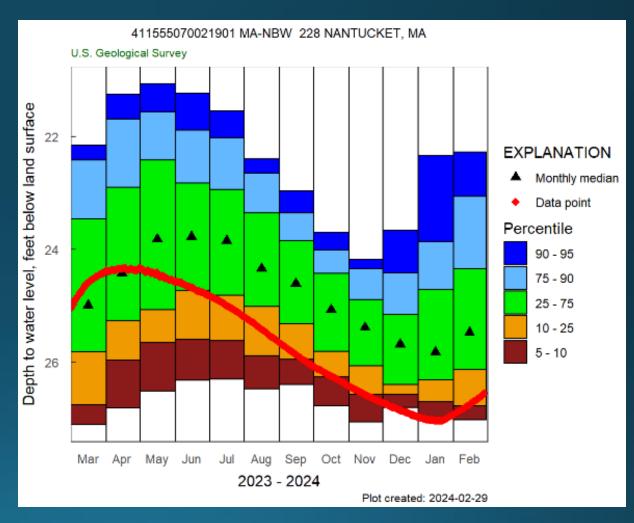






Islands Region

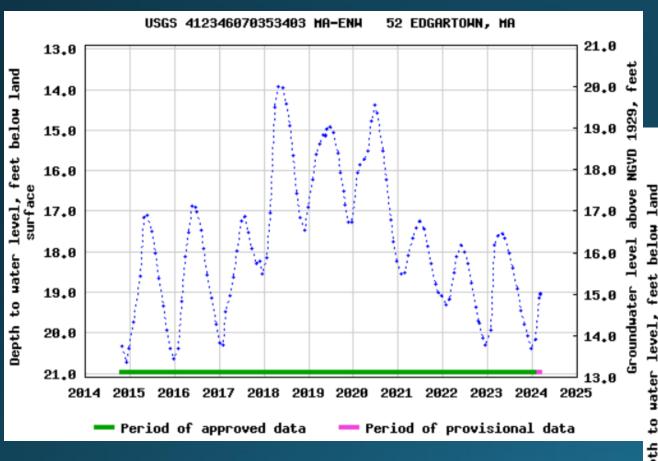


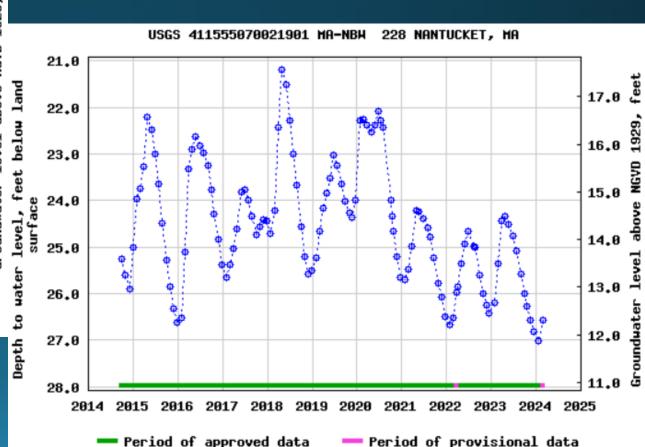


Period of Record: 47 yrs; continuous 4 yrs

Period of Record: 47 yrs; continuous 1 yr

Islands — Martha's Vineyard and Nantucket WL Meas. 10-yrs period (2015-24)





Summary of GW Levels for Cape and the Islands

- Groundwater levels at Sandwich 253R and Brewster 22R were in the normal range and Wellfleet 17R was in the below normal range during February
- Groundwater levels in all three Cape wells continued to rise during February, but the rate of rise in the Sandwich 253R and Brewster 22R was not as great as during January
- GW levels in the Martha's Vineyard and Nantucket wells continued to rise during February and were in the normal and below normal range, respectively, at the end of February