

Streamflow and Groundwater Conditions in Massachusetts

November 09, 2022

Chris Bruet

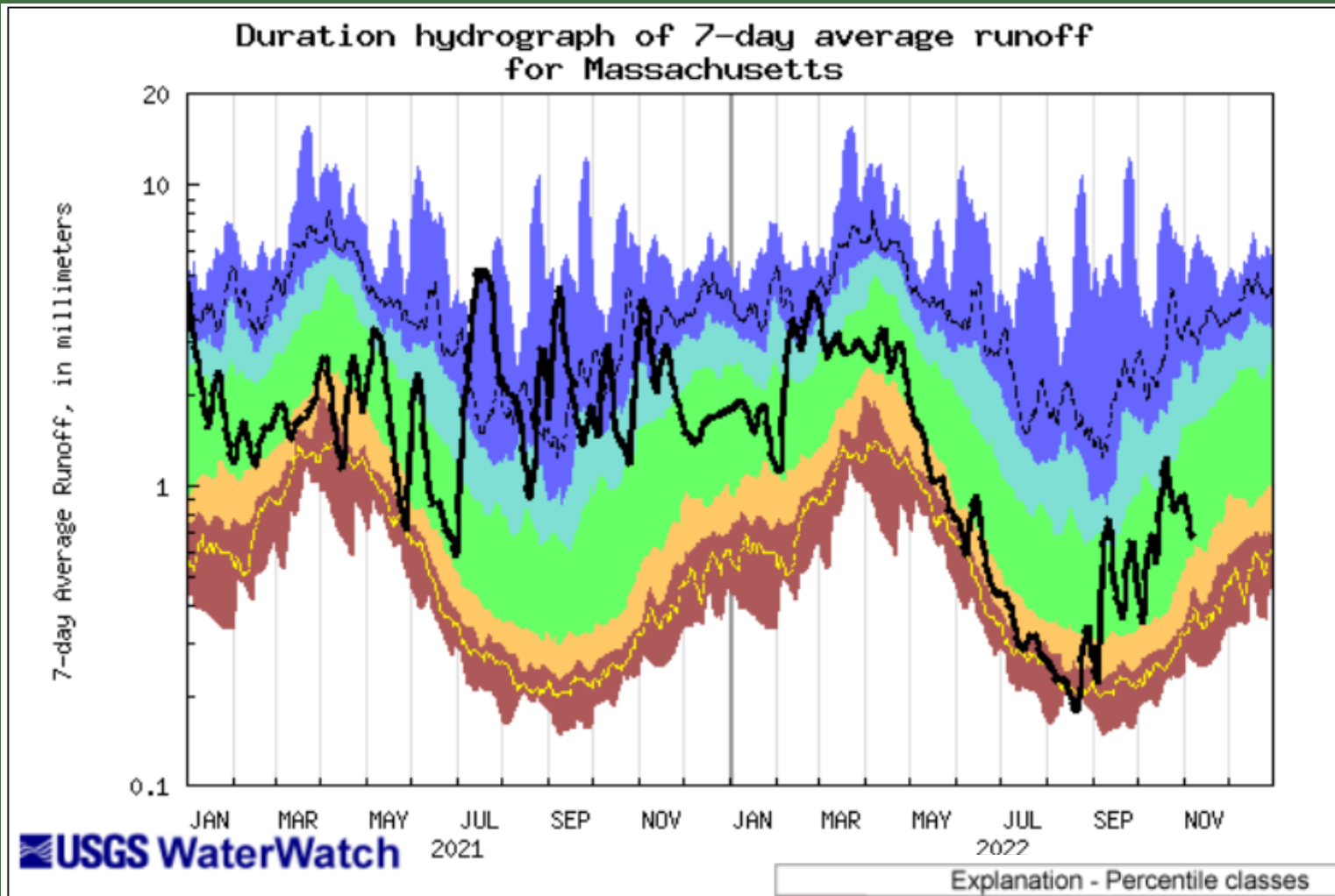
Jason Pollender

U.S. Geological Survey

New England Water Science Center

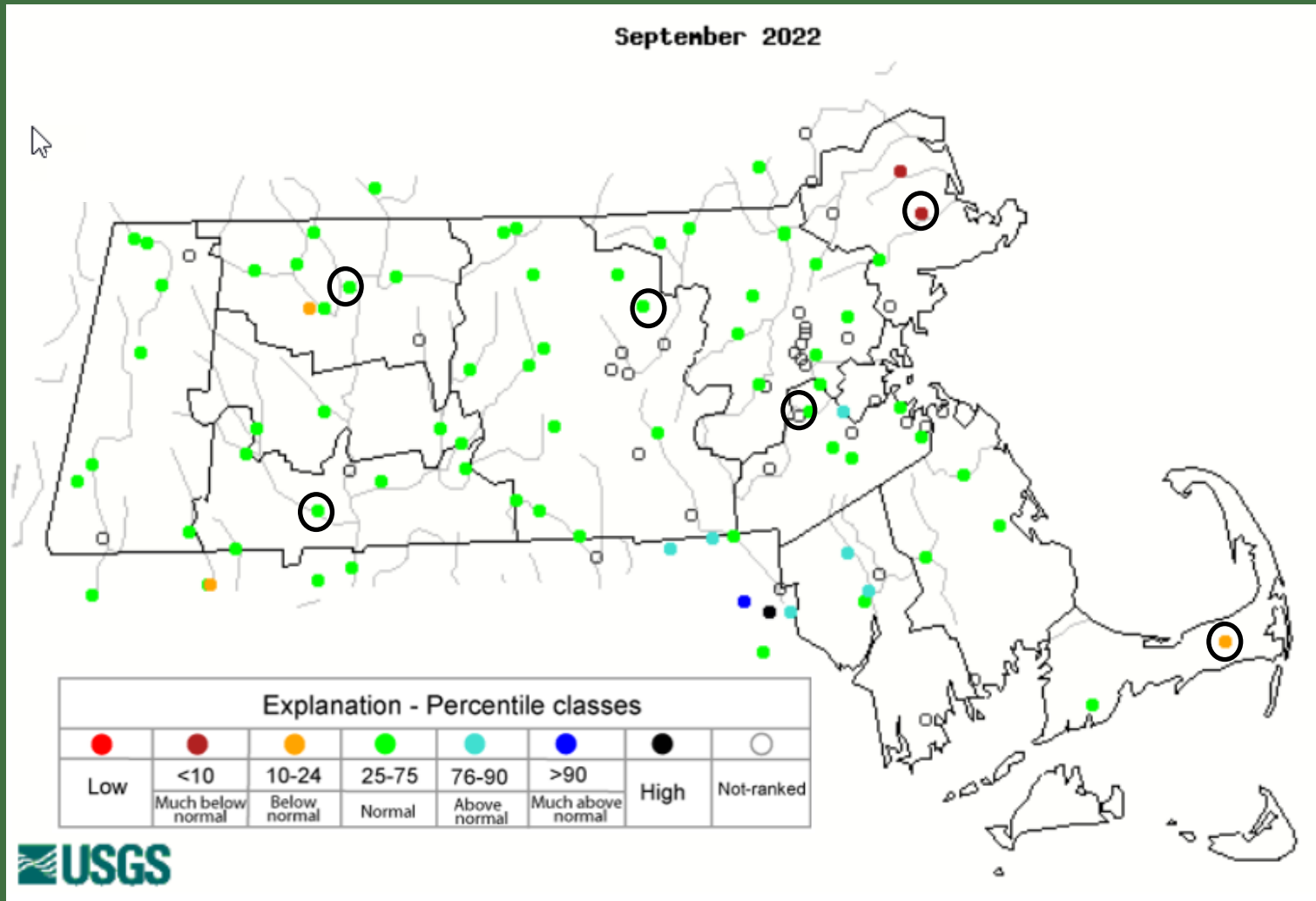


7-Day Streamflow Conditions Jan. 01, 2021 - Dec. 31, 2022



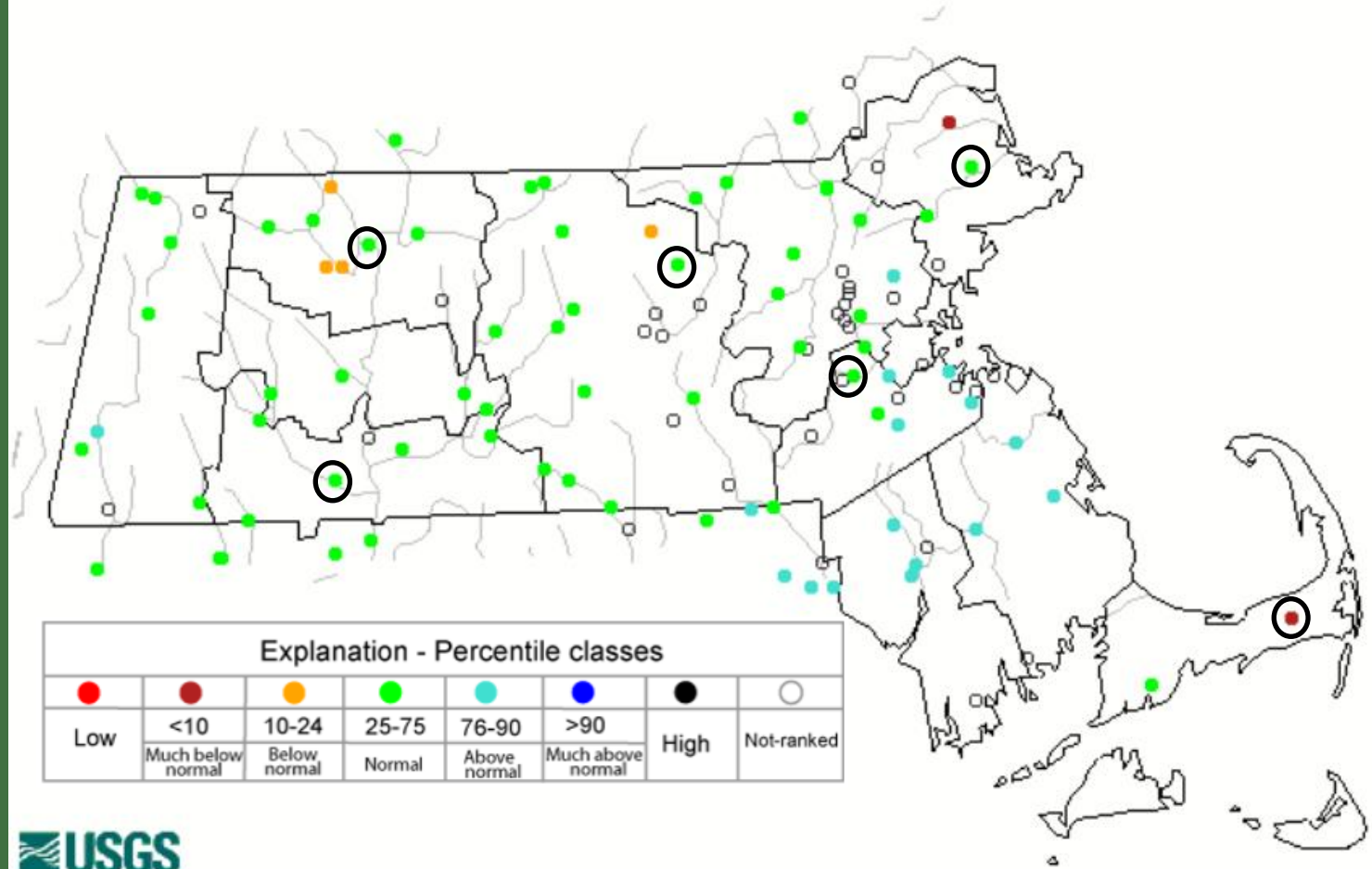
Explanation - Percentile classes							
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile - highest	Runoff
Much below Normal	Below normal	Normal	Above normal	Much above normal			

Monthly Average Streamflow - September



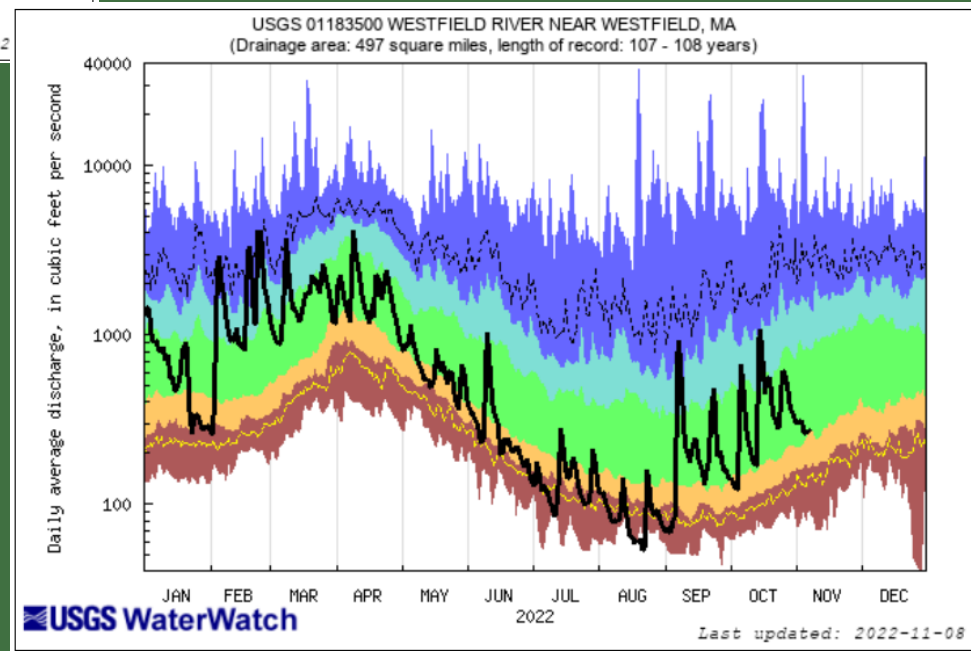
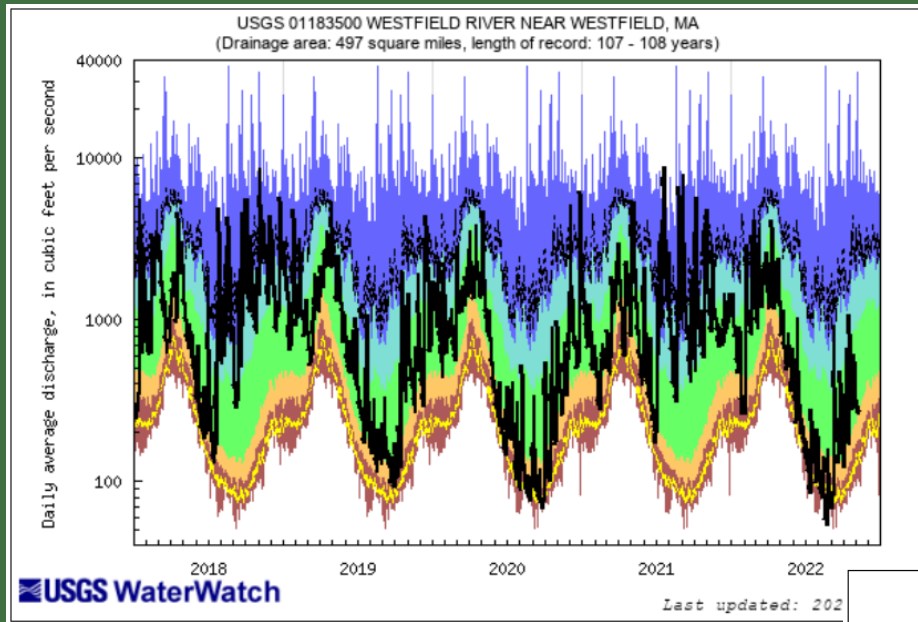
Monthly Average Streamflow - October

October 2022



Daily Avg. –Westfield River– Western MA

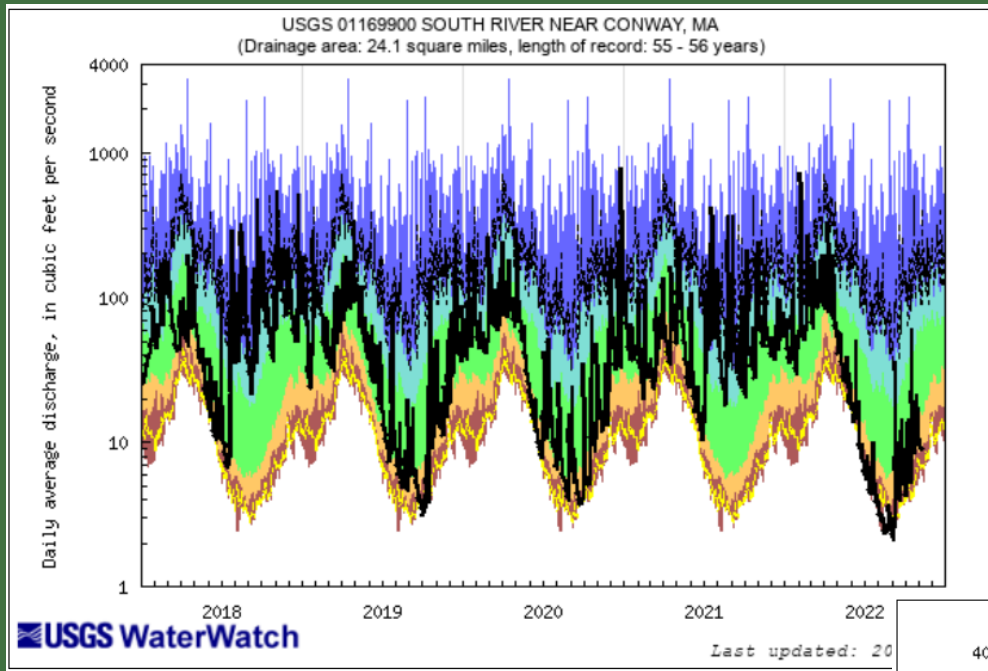
(NWS River Forecast Station)



Explanation - Percentile classes

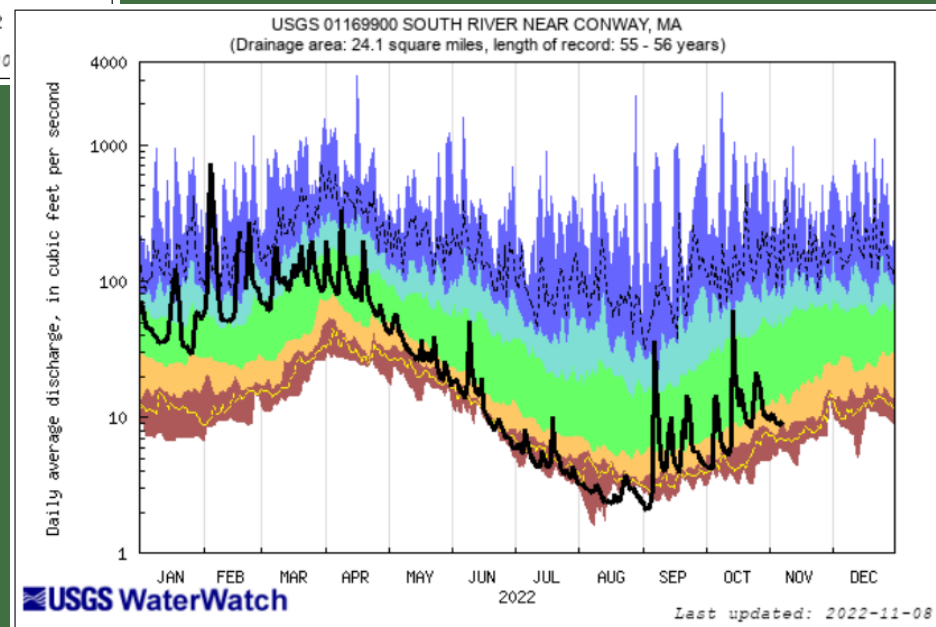
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal	Below normal	Normal	Above normal	Much above normal			

Daily Avg. – South River– Western MA



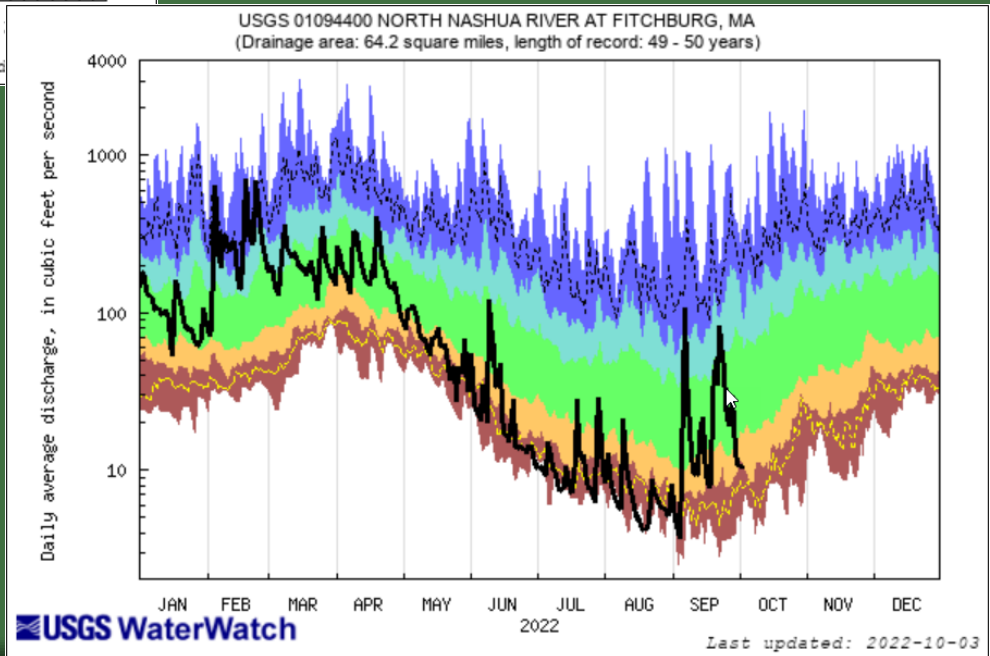
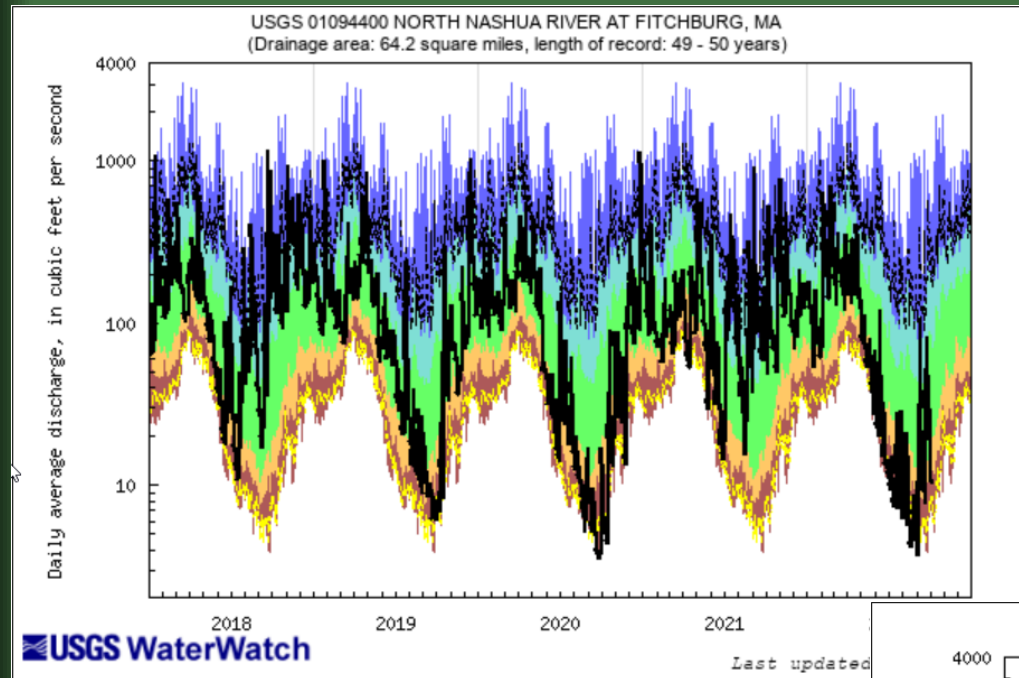
Explanation - Percentile classes

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



Daily Avg. – N. Nashua River – Northeastern/Central MA

(NWS River Forecast Station)

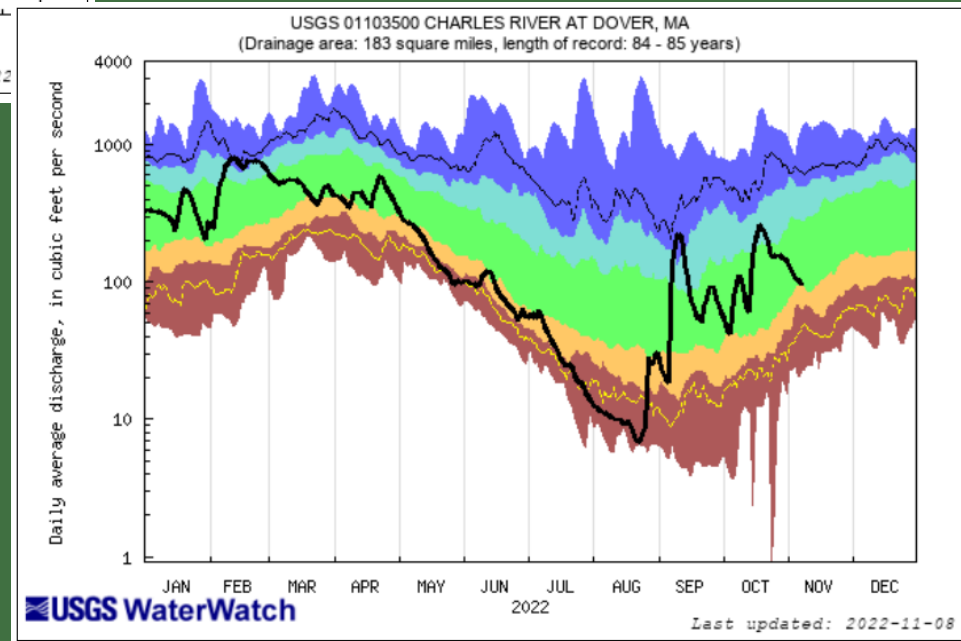
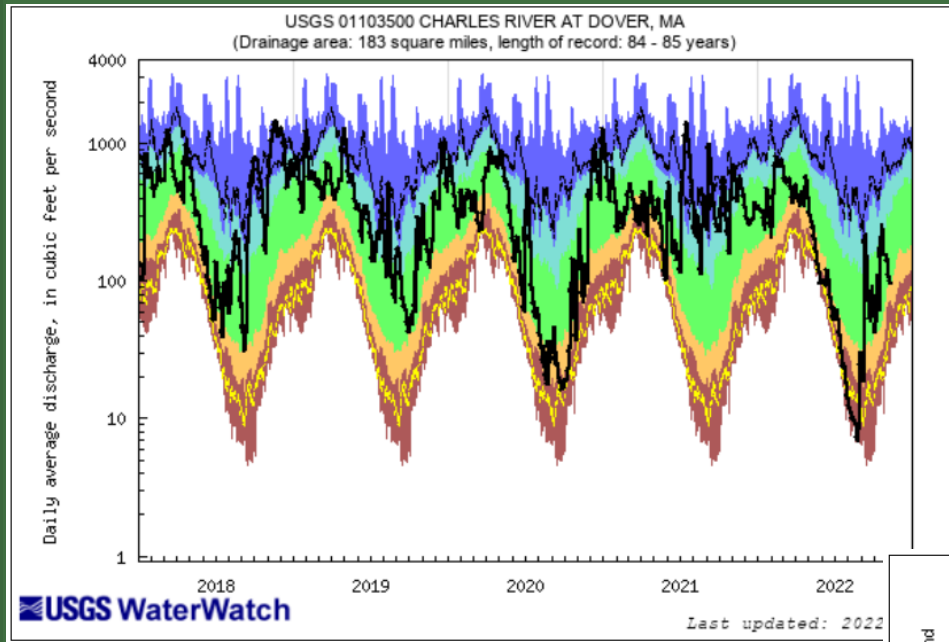


Explanation - Percentile classes

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

Daily Avg. – Charles River – Eastern MA

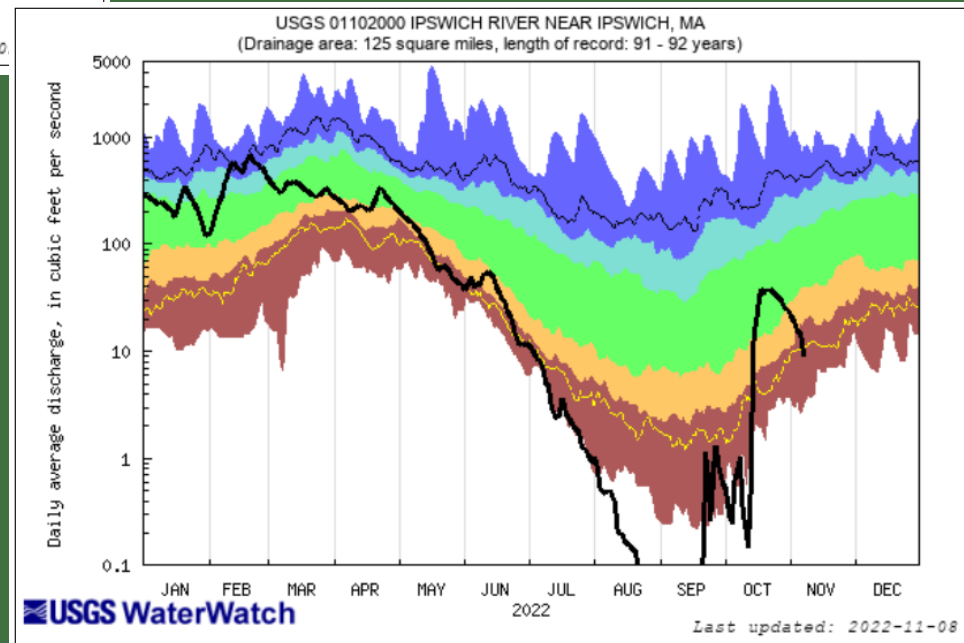
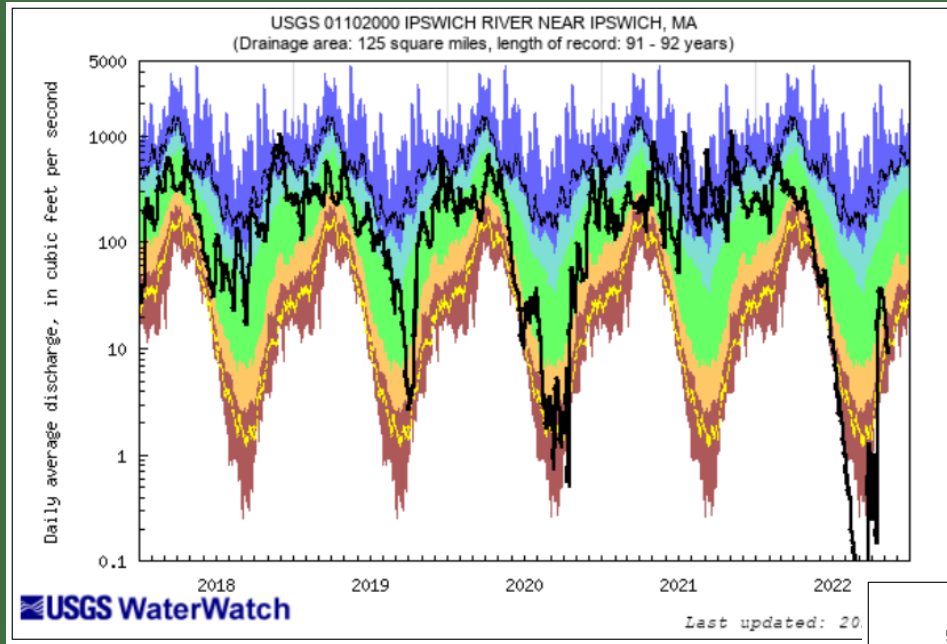
(NWS River Forecast Station)



Explanation - Percentile classes

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

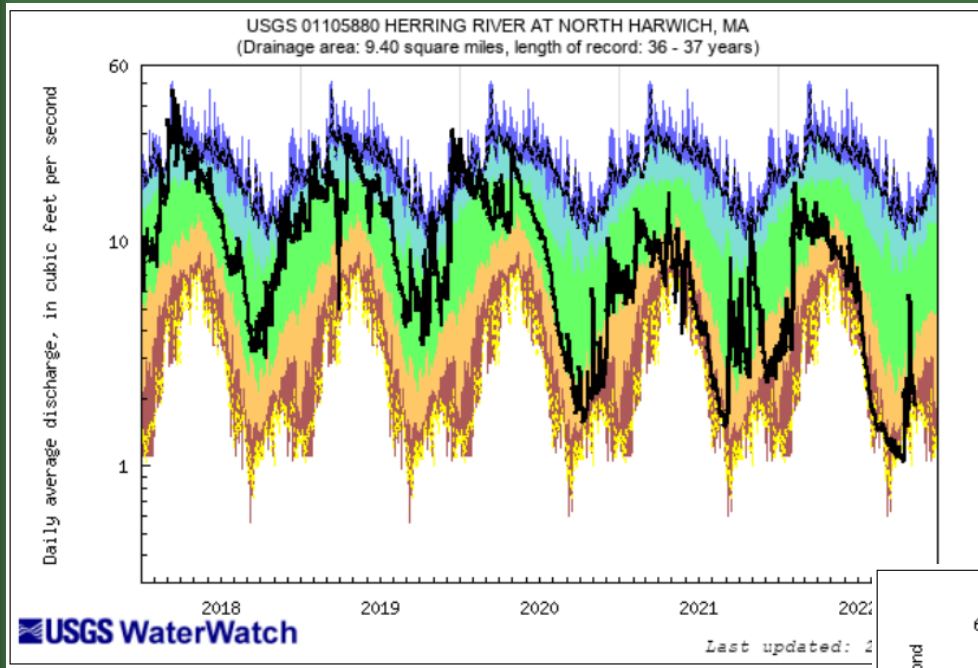
Daily Avg. Ipswich River– Northeastern MA



Explanation - Percentile classes

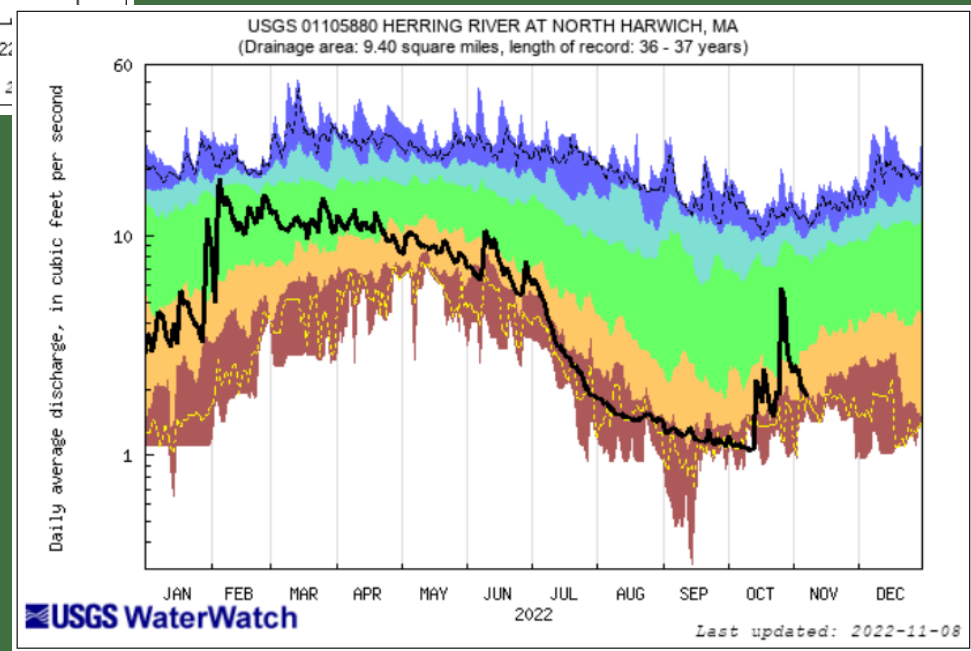
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal	Below normal	Normal	Above normal	Much above normal			

Daily Avg. Herring River – Cape Cod

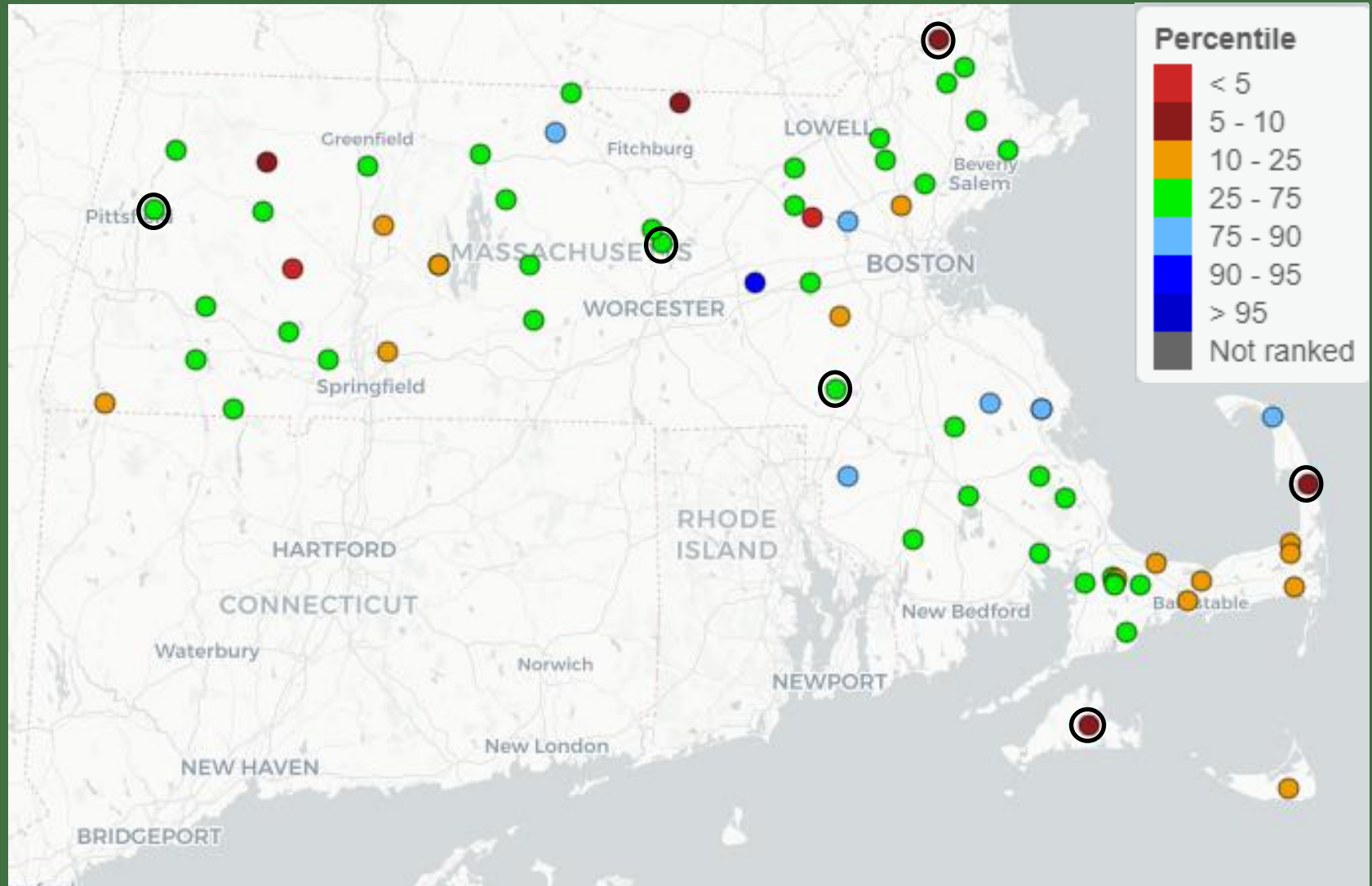


Explanation - Percentile classes

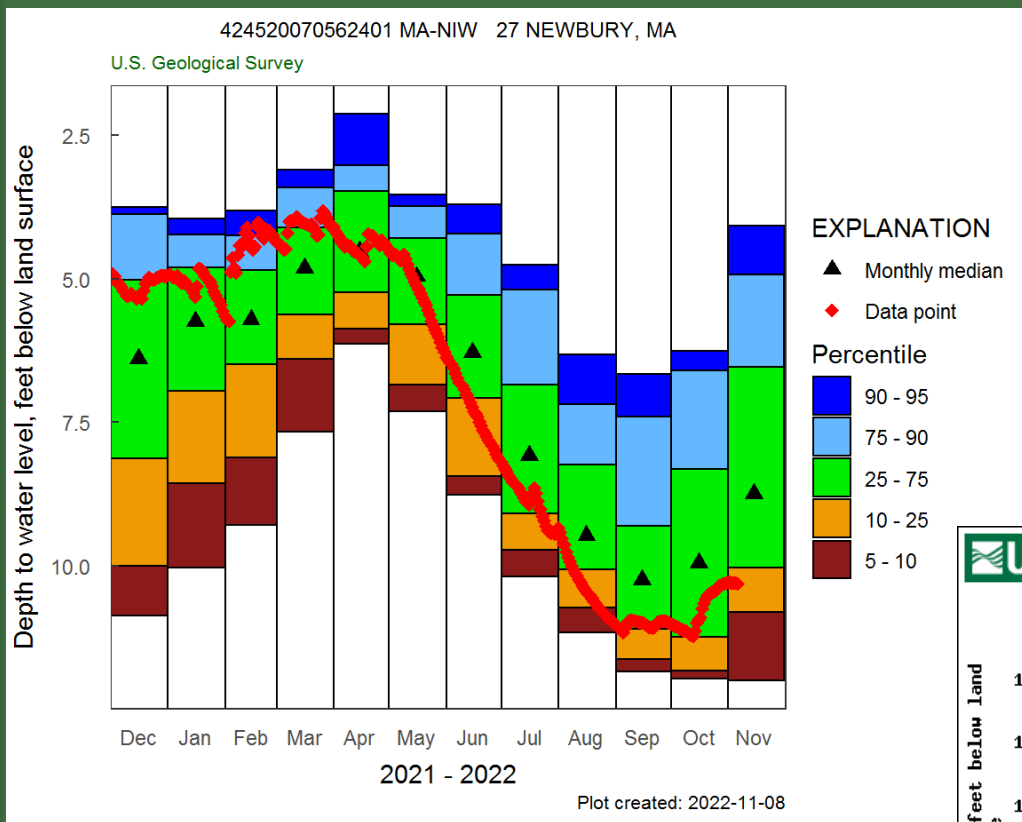
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal	Below normal	Normal	Above normal	Much above normal			



Climate Response Network (CRN) Groundwater Conditions, October 31, 2022

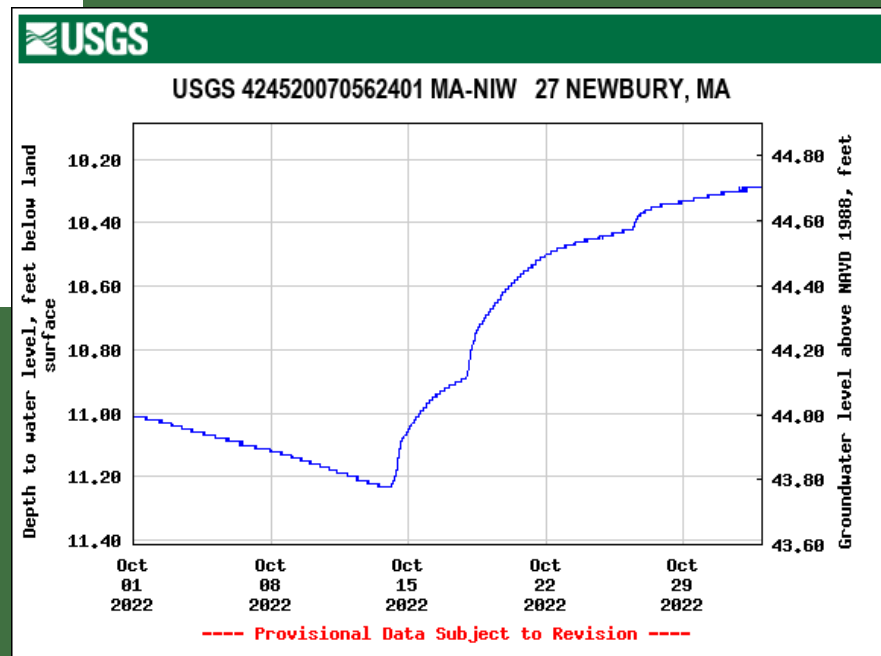


NIW 27 Newbury, MA

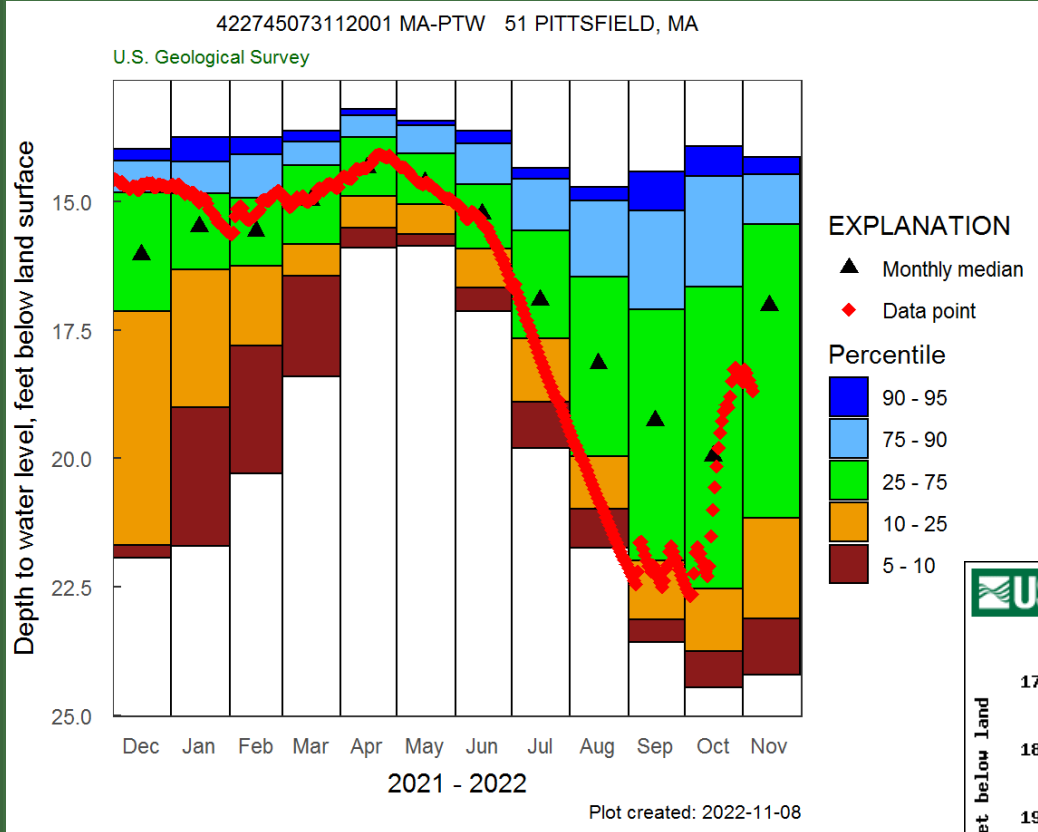


Period of Record

- Realtime 2007 – Present
- Discrete 1965 – 2007
- Total Record 63 years

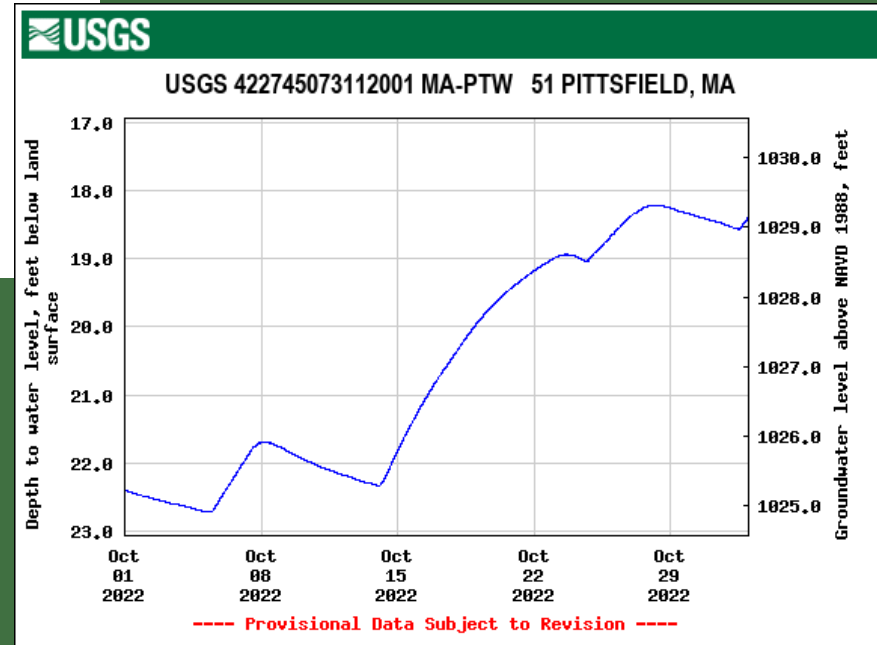


PTW 51 Pittsfield, MA



Period of Record

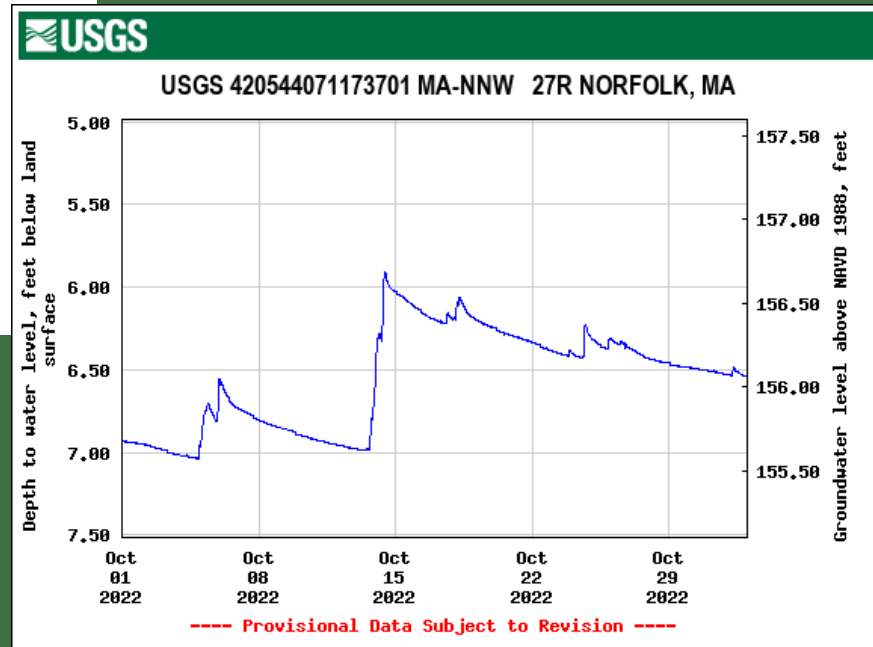
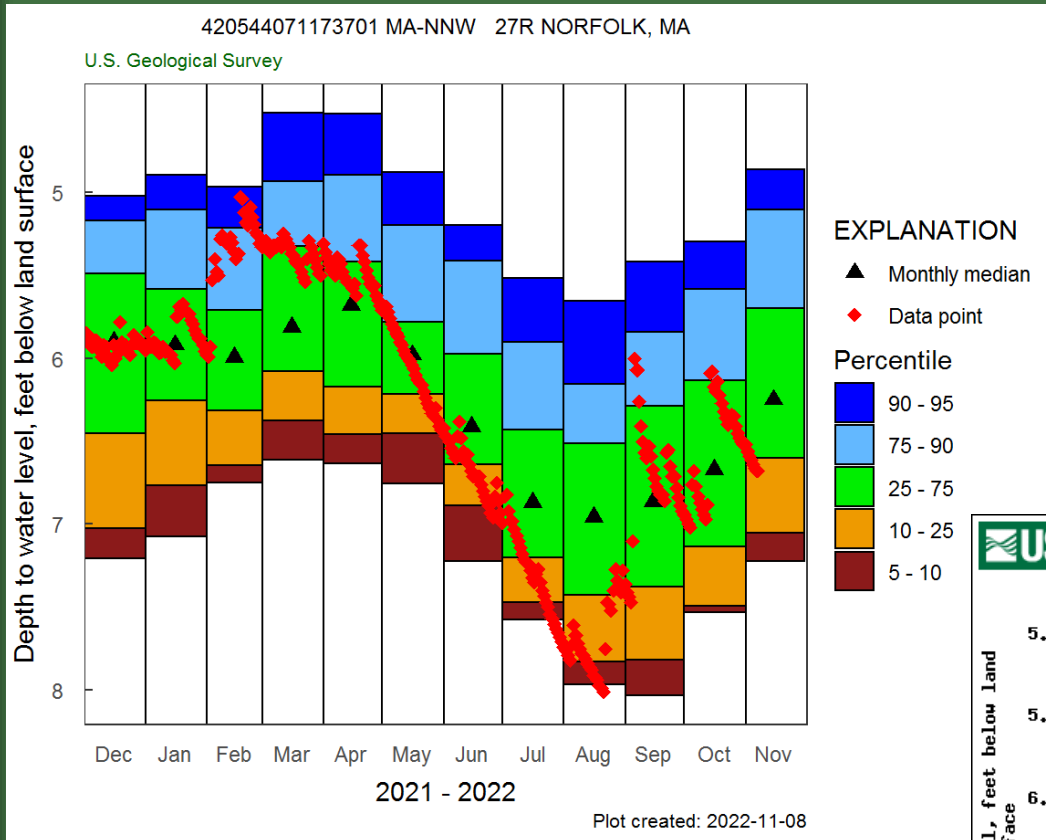
- Realtime 2007 – Present
- Discrete 1963 – 2007
- Total Record 59 years



NNW 27R Norfolk, MA

Period of Record

- Realtime 2018 – Present
- Discrete 1964 – 2018
- Total Record 58 years



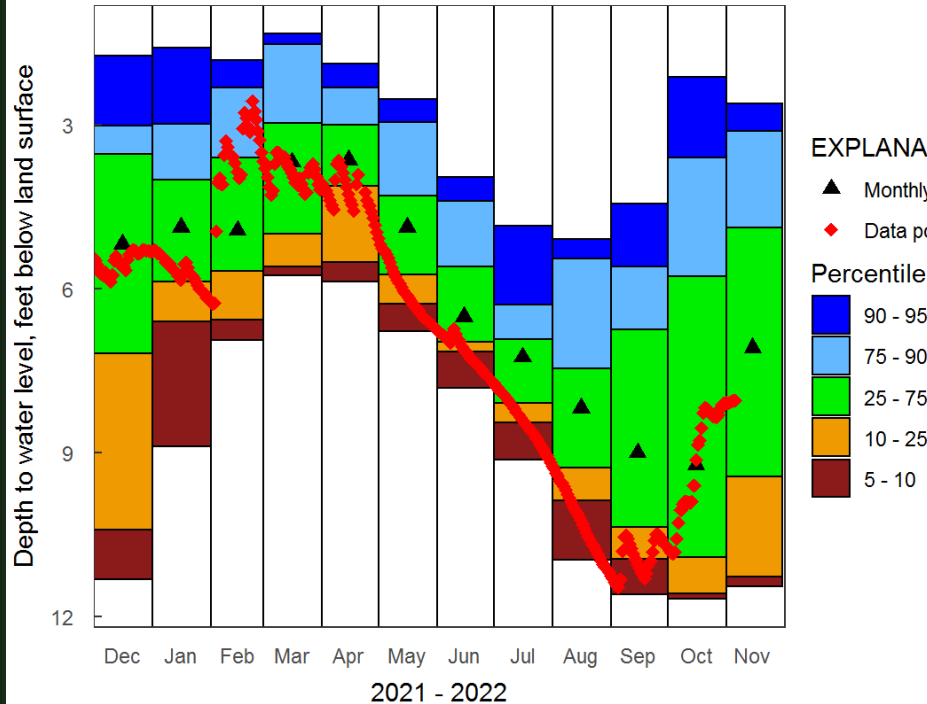
BMW 26 West Boylston, MA

Period of Record

- Realtime 2012 – Present
- Discrete 1995 – 2012
- Total Record 27 years

422341071464901 MA-WSW 26 WEST BOYLSTON, MA

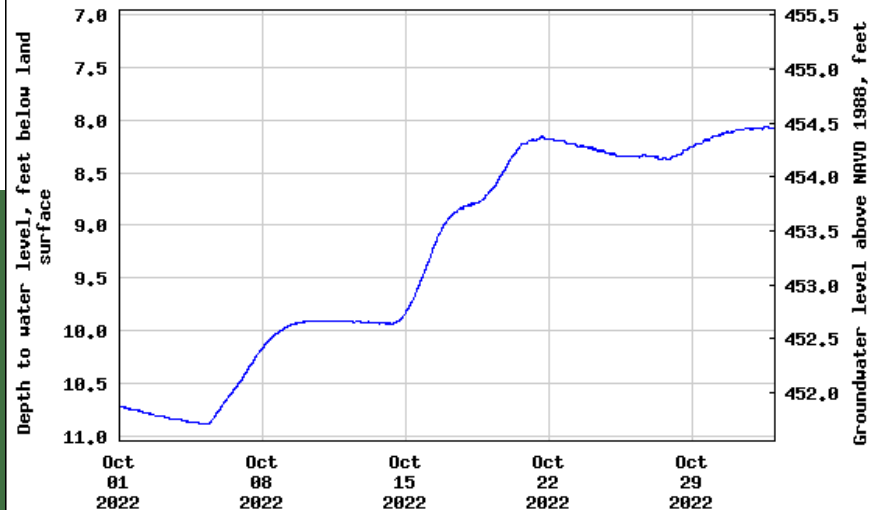
U.S. Geological Survey



Plot created: 2022-11-08



USGS 422341071464901 MA-WSW 26 WEST BOYLSTON, MA

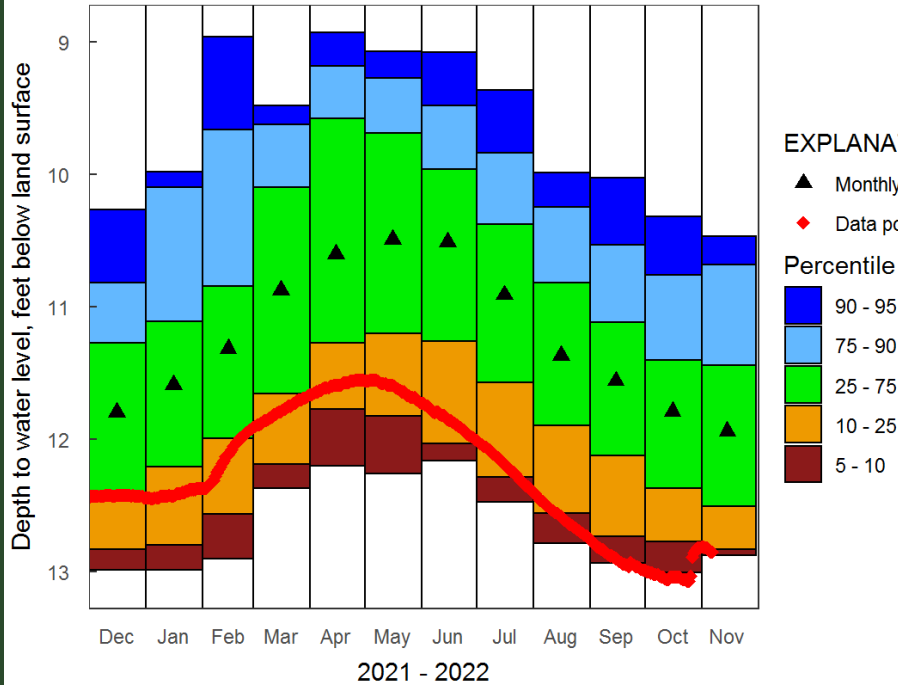


----- Provisional Data Subject to Revision -----

WNW 17R Wellfleet, MA

415354069585201 MA-WNW 17R WELLFLEET,MA

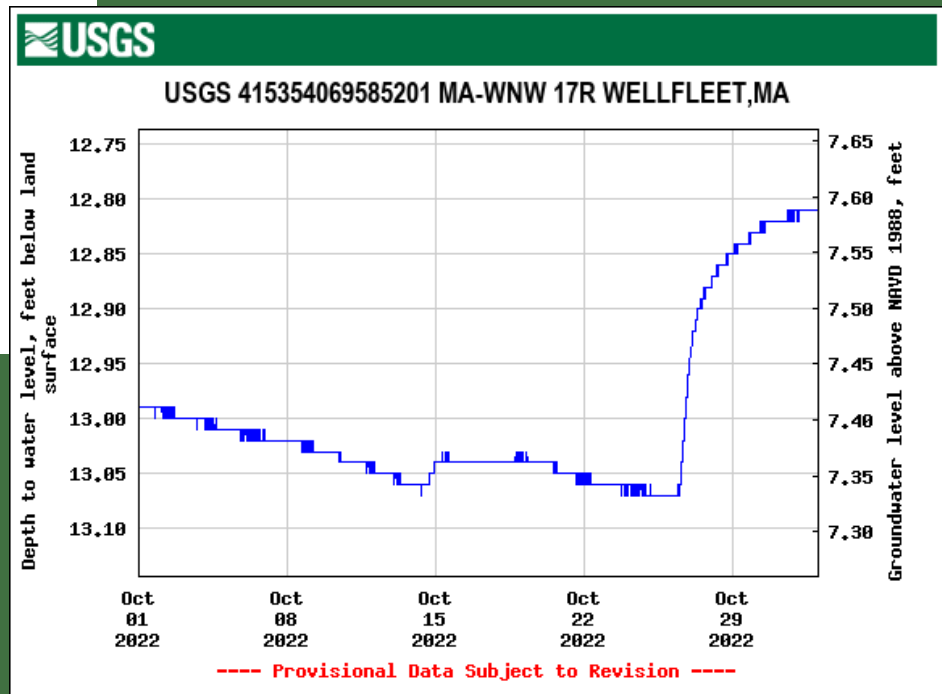
U.S. Geological Survey



Plot created: 2022-11-08

Period of Record

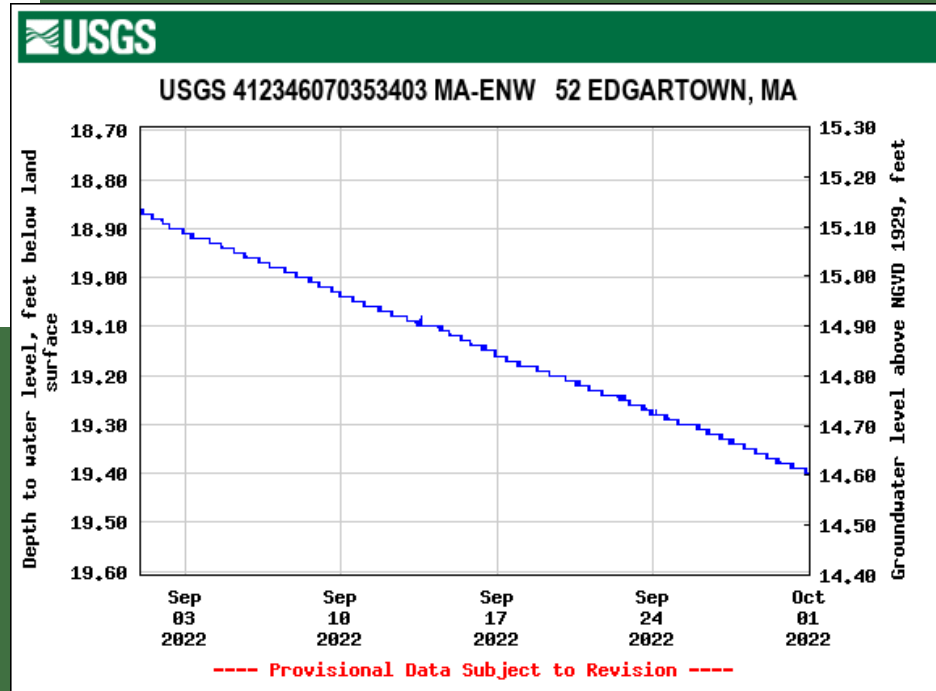
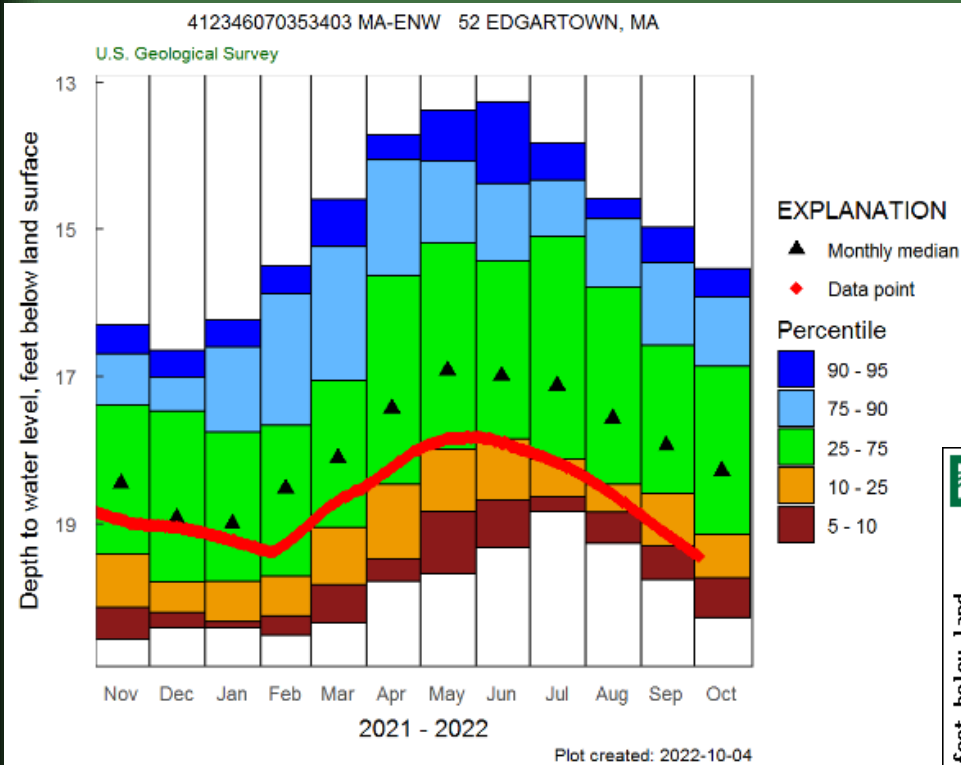
- Realtime 2018 – Present
- Discrete 1962 – 2018
- Total Record 60 years



ENW 52, Edgartown, MA

Period of Record

- Realtime 2019 – Present
- Discrete 1976 – 2019
- Total Record 46 years



Questions?

