

Streamflow and Groundwater Conditions in Massachusetts

December 07, 2022

Chris Bruet

Jason Pollender

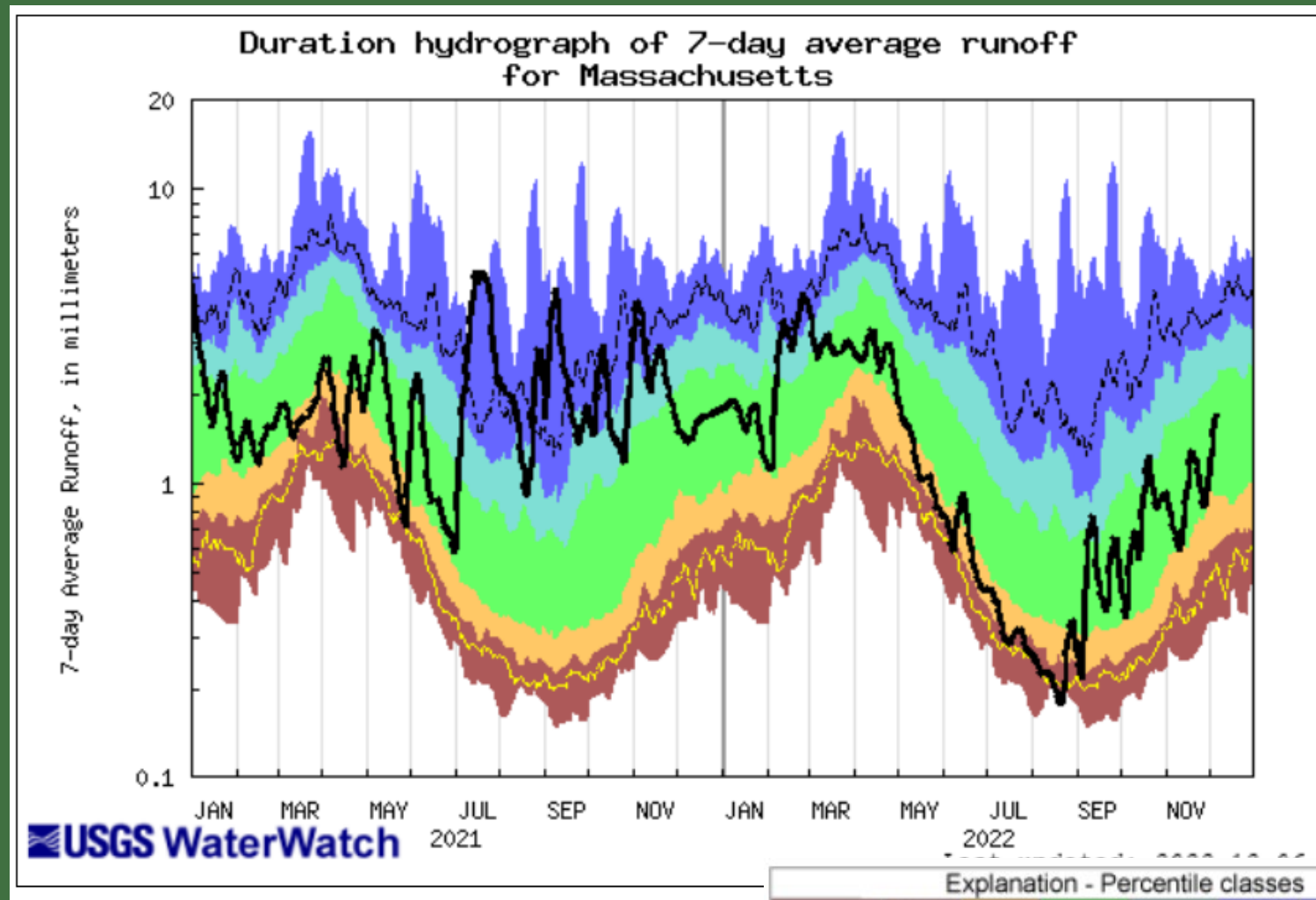
U.S. Geological Survey

New England Water Science Center



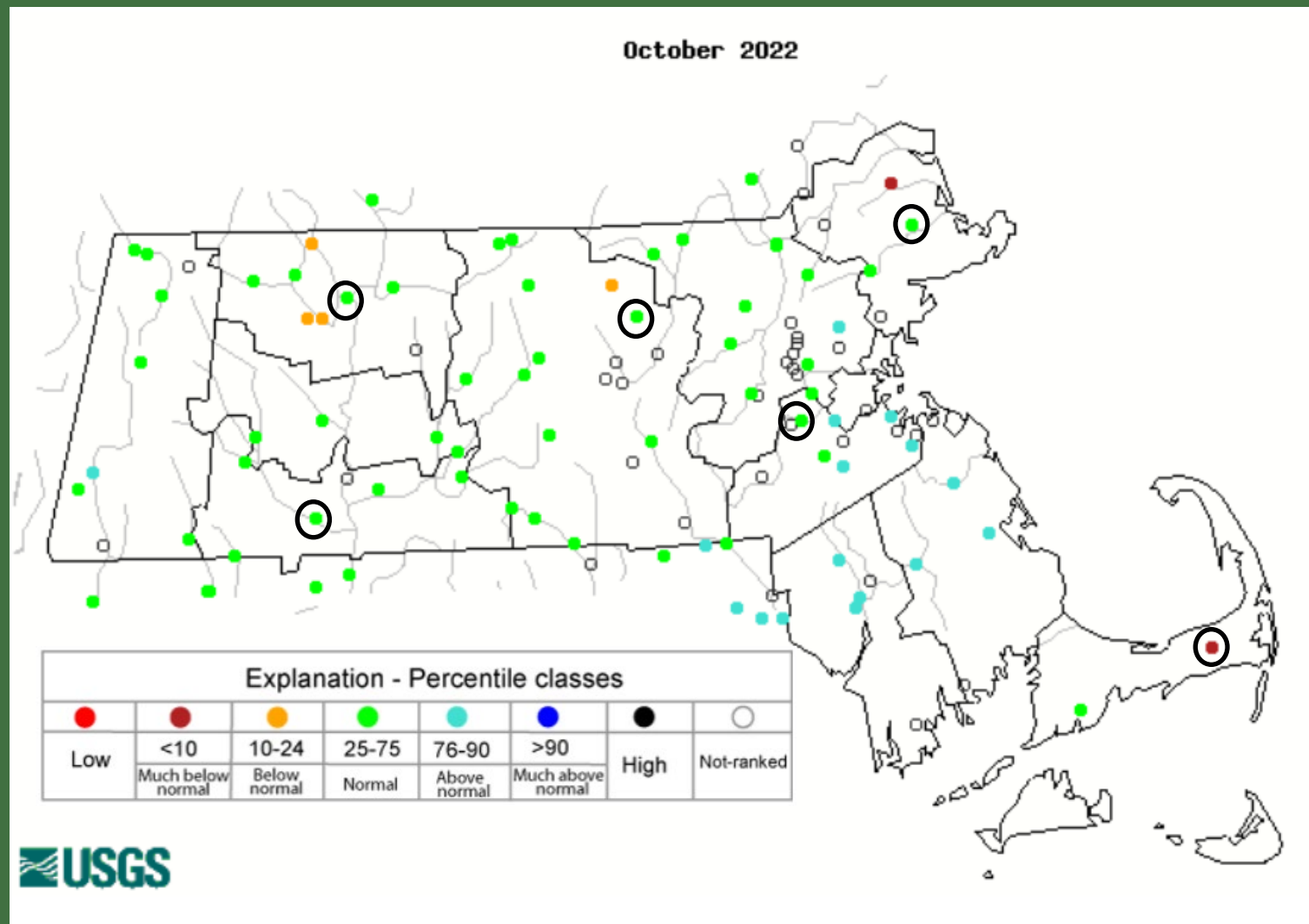
7-Day Average Runoff

Jan. 01, 2021 - Dec. 31, 2022



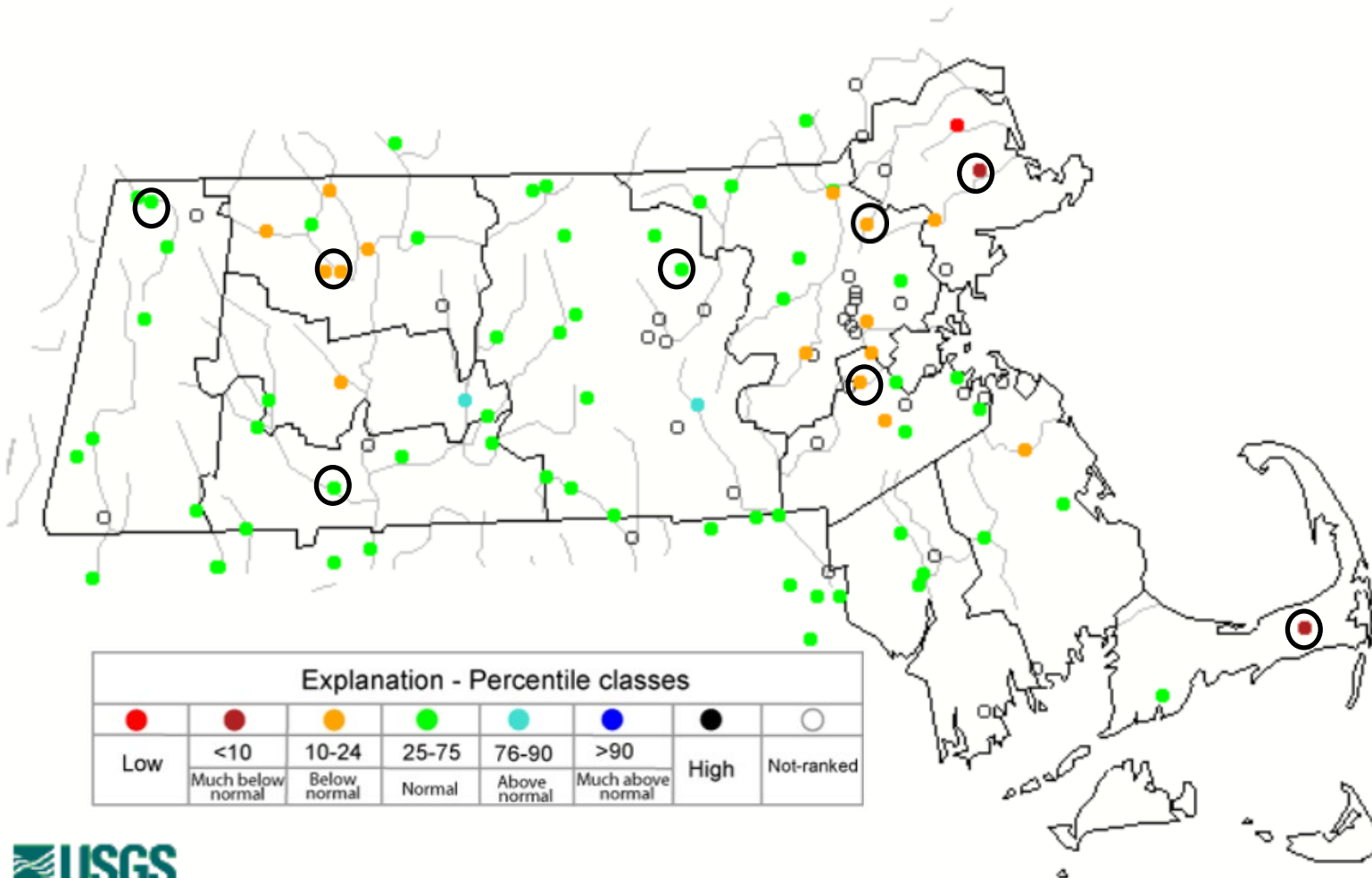
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile - highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Runoff

Monthly Average Streamflow - October



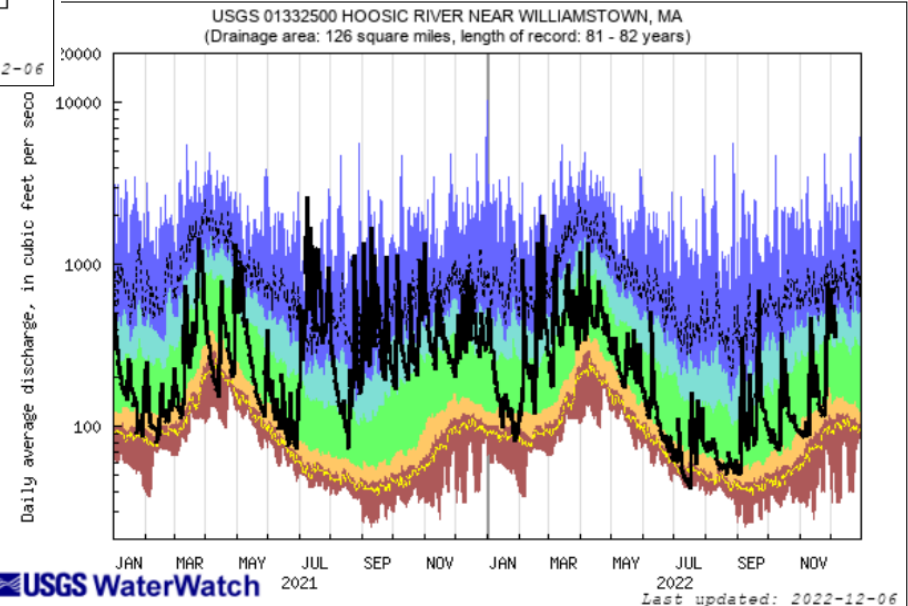
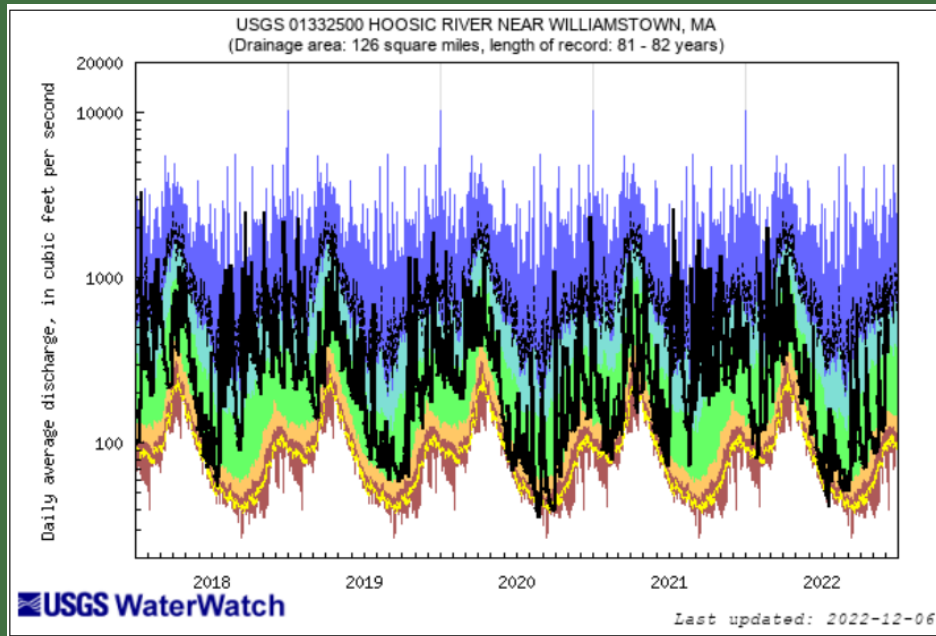
Monthly Average Streamflow - November

November 2022



Daily Avg. –Hoosic River– Western MA

(NWS River Forecast Station)

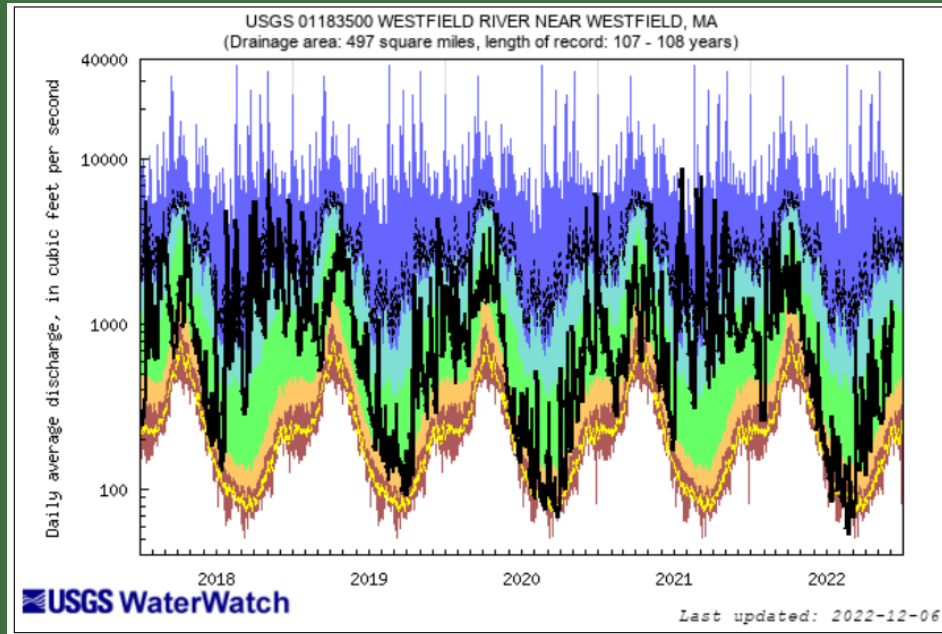


Explanation - Percentile classes

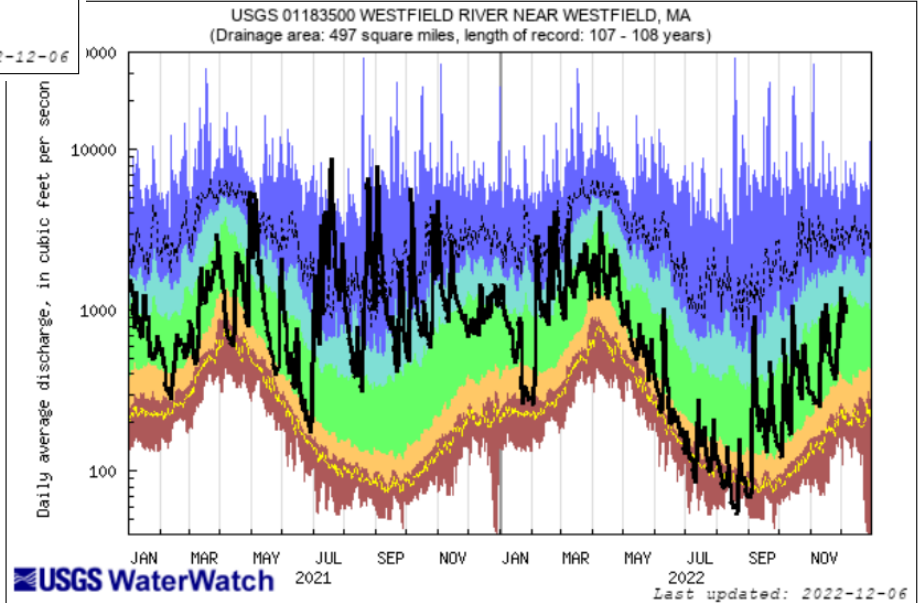
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below Normal	Below normal	Normal	Above normal	Much above normal			

Daily Avg. –Westfield River– Western MA

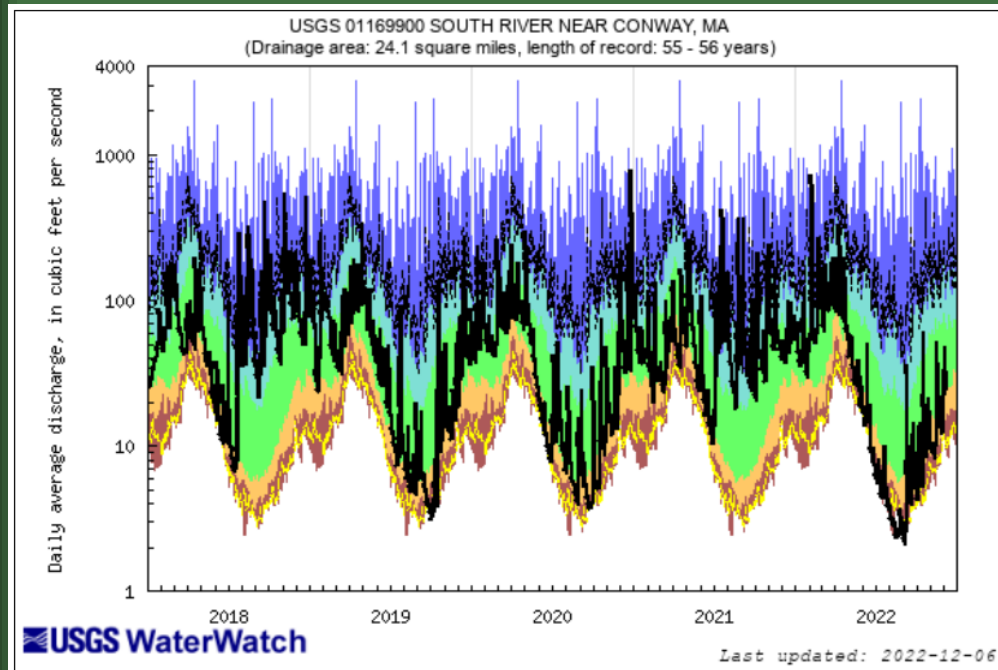
(NWS River Forecast Station)



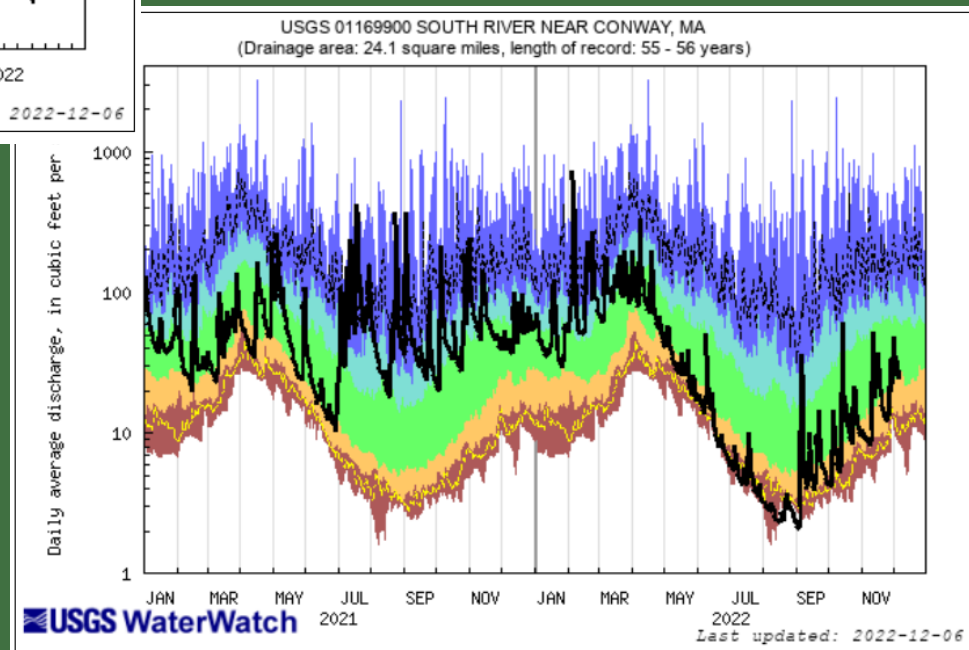
Explanation - Percentile classes							Flow
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	
Much below Normal	Below normal	Normal	Above normal	Much above normal			



Daily Avg. – South River– Western MA

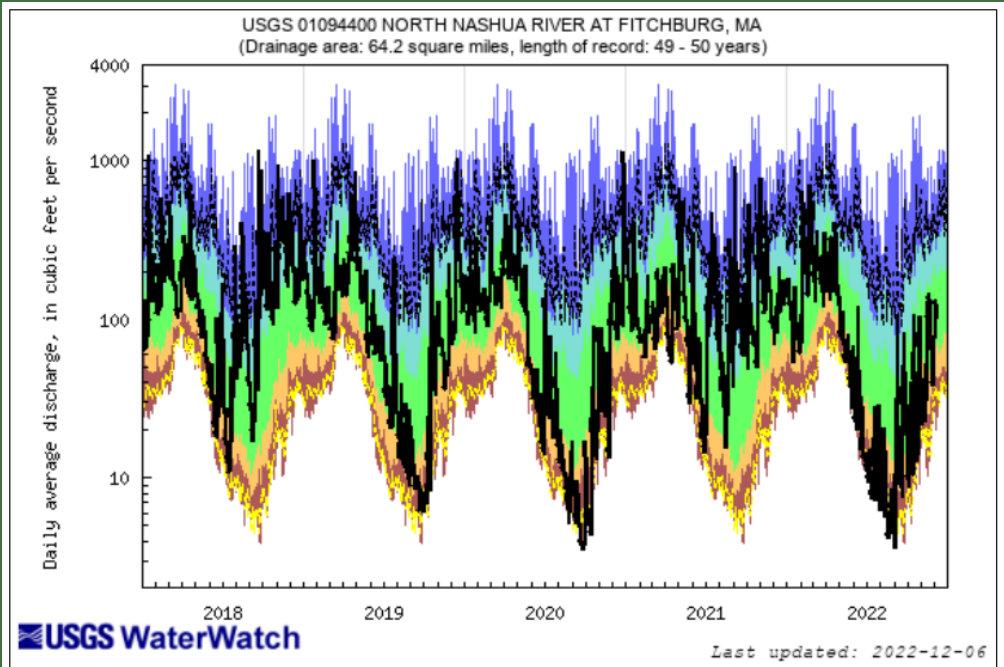


Explanation - Percentile classes							Flow
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	
Much below Normal	Below normal	Normal	Above normal	Much above normal			

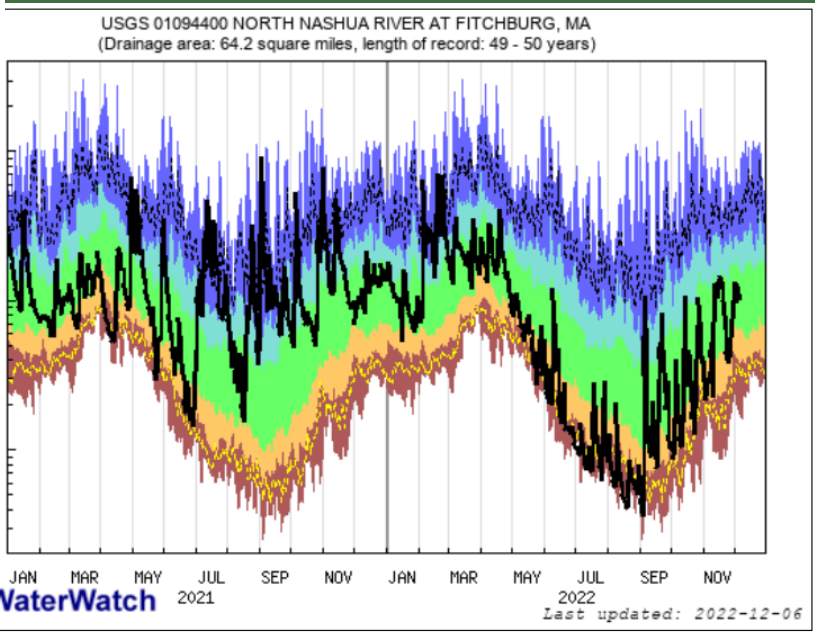


Daily Avg. – N. Nashua River – Northeastern/Central MA

(NWS River Forecast Station)

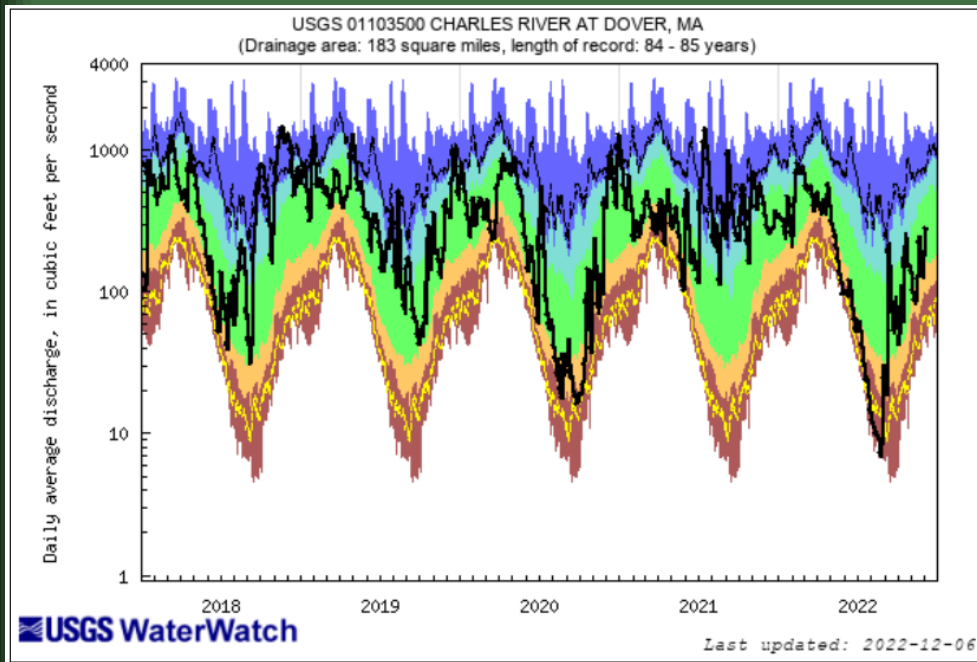


Explanation - Percentile classes							Flow
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	
Much below Normal	Below normal	Normal	Above normal	Much above normal			

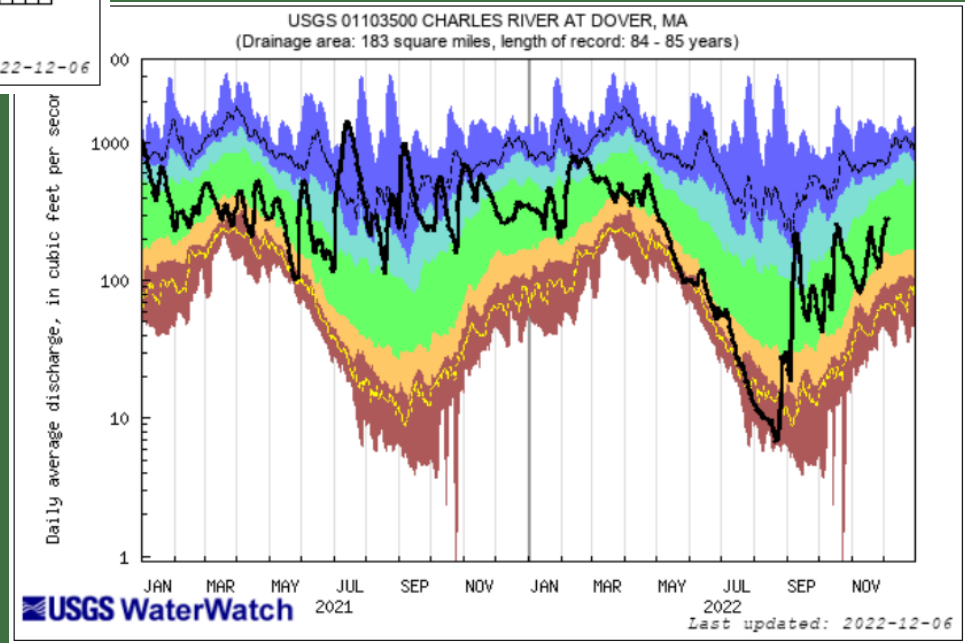


Daily Avg. – Charles River – Eastern MA

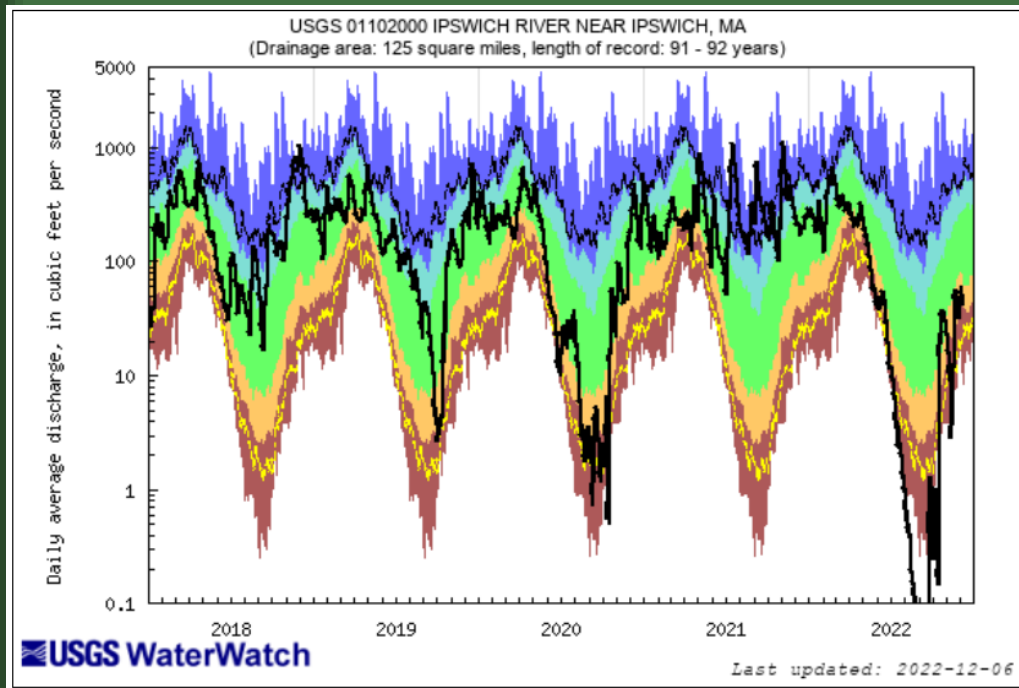
(NWS River Forecast Station)



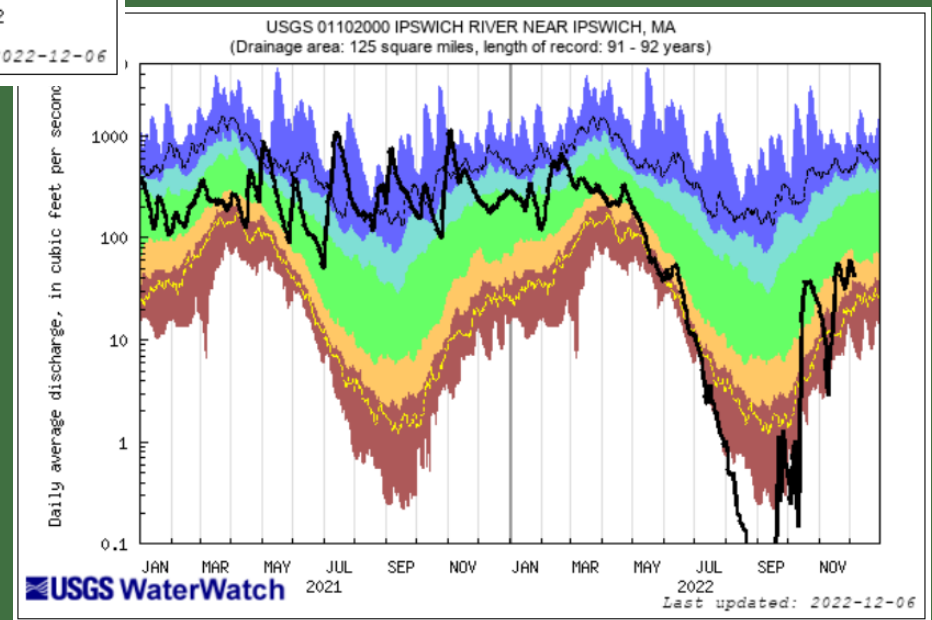
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile-highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		



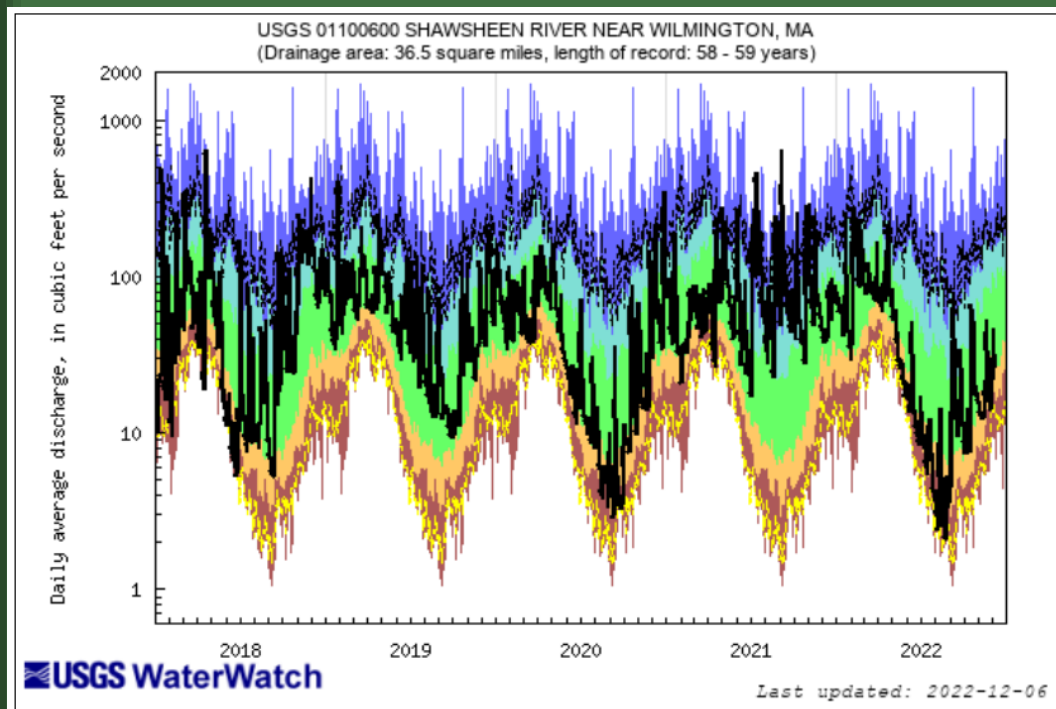
Daily Avg. Ipswich River– Northeastern MA



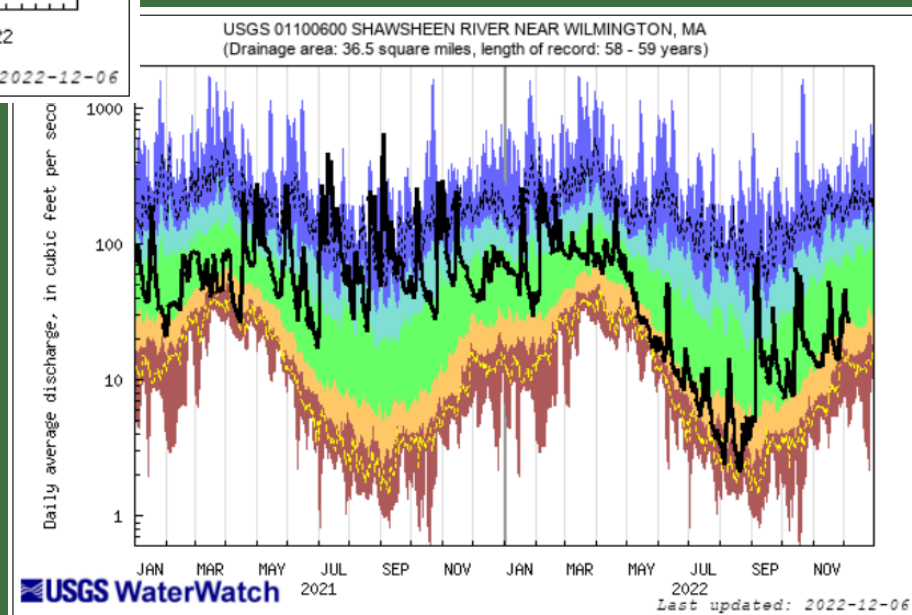
Explanation - Percentile classes							Flow
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	
Much below Normal	Below normal	Normal	Above normal	Much above normal			



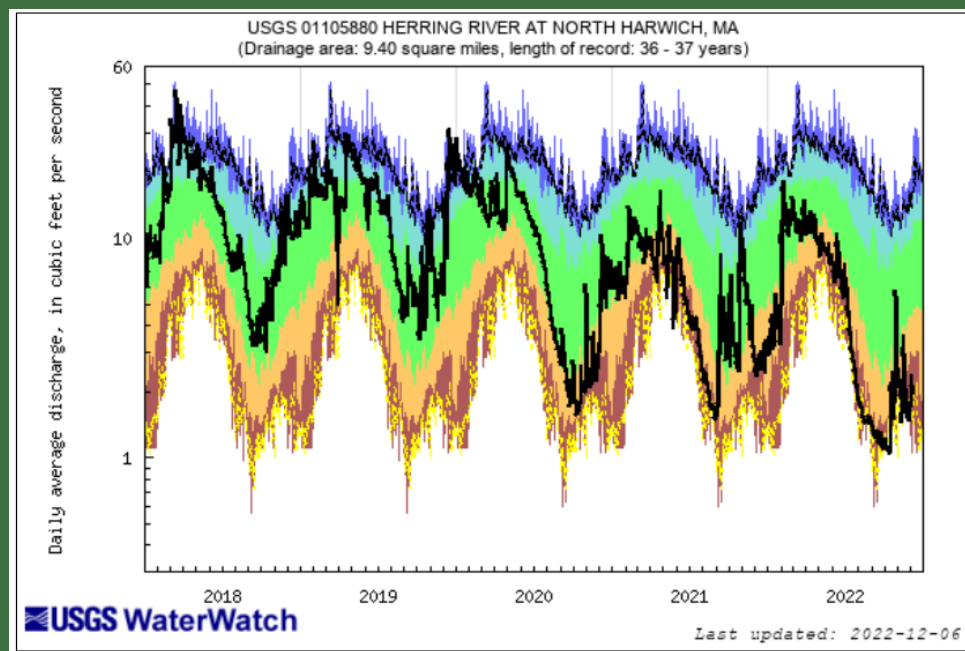
Daily Avg. Shawsheen River– Northeastern MA



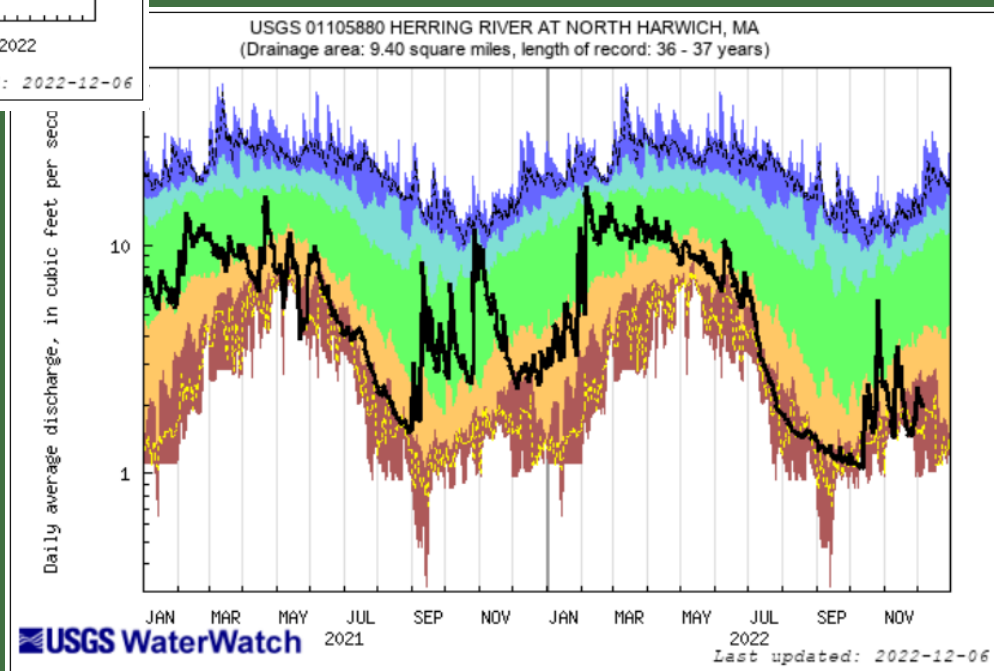
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		
						Flow



Daily Avg. Herring River – Cape Cod

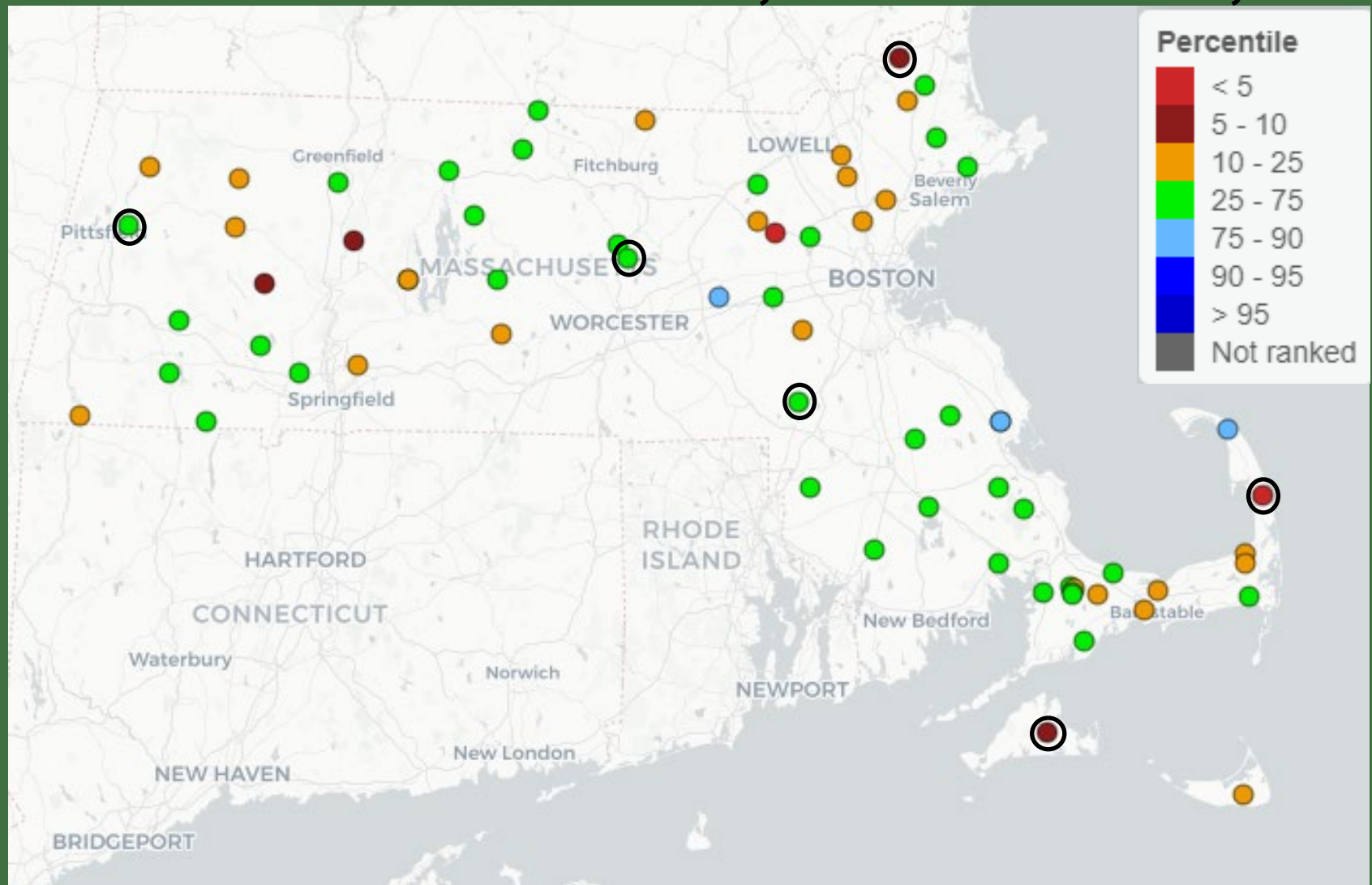


Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

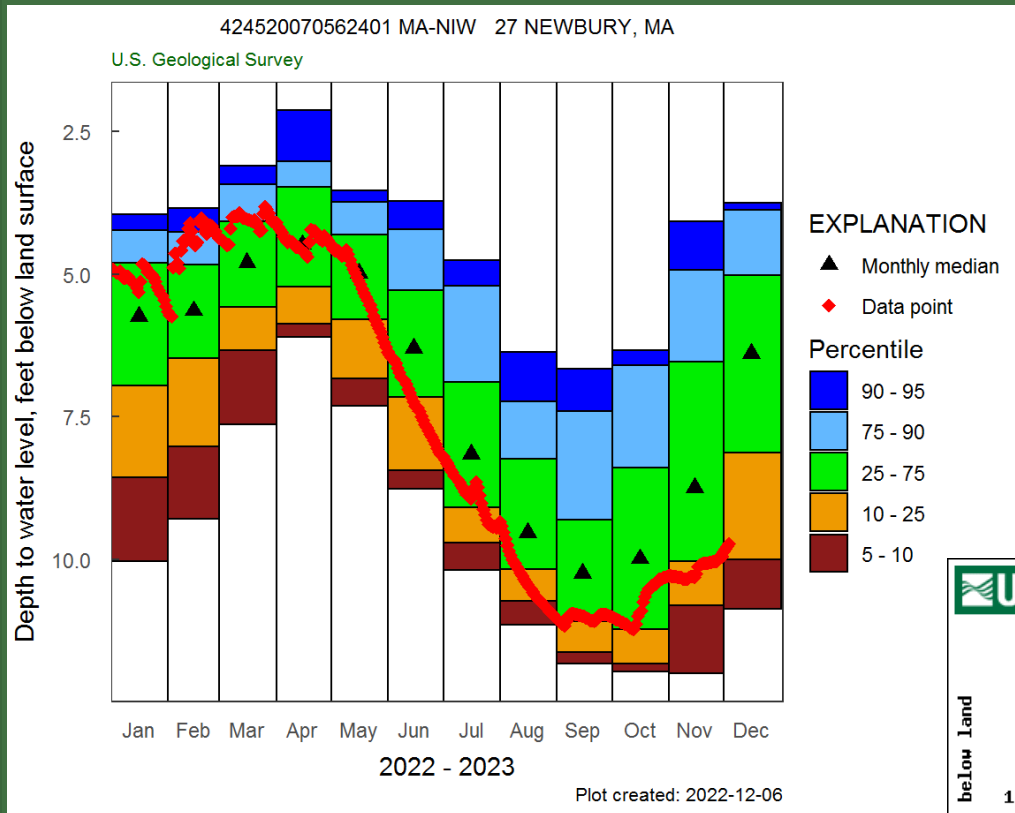


Climate Response Network (CRN)

Groundwater Conditions, November 30, 2022

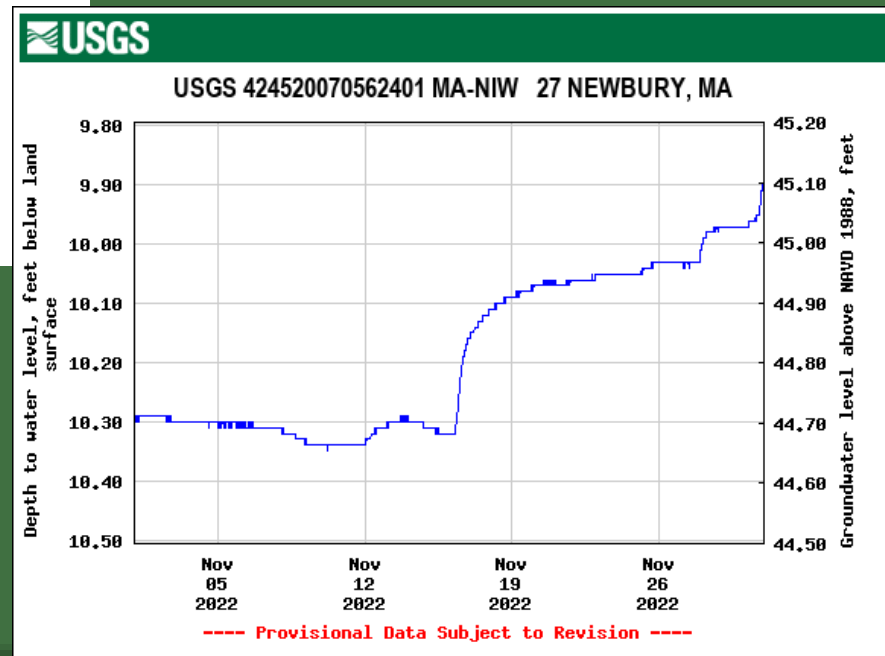


NIW 27 Newbury, MA

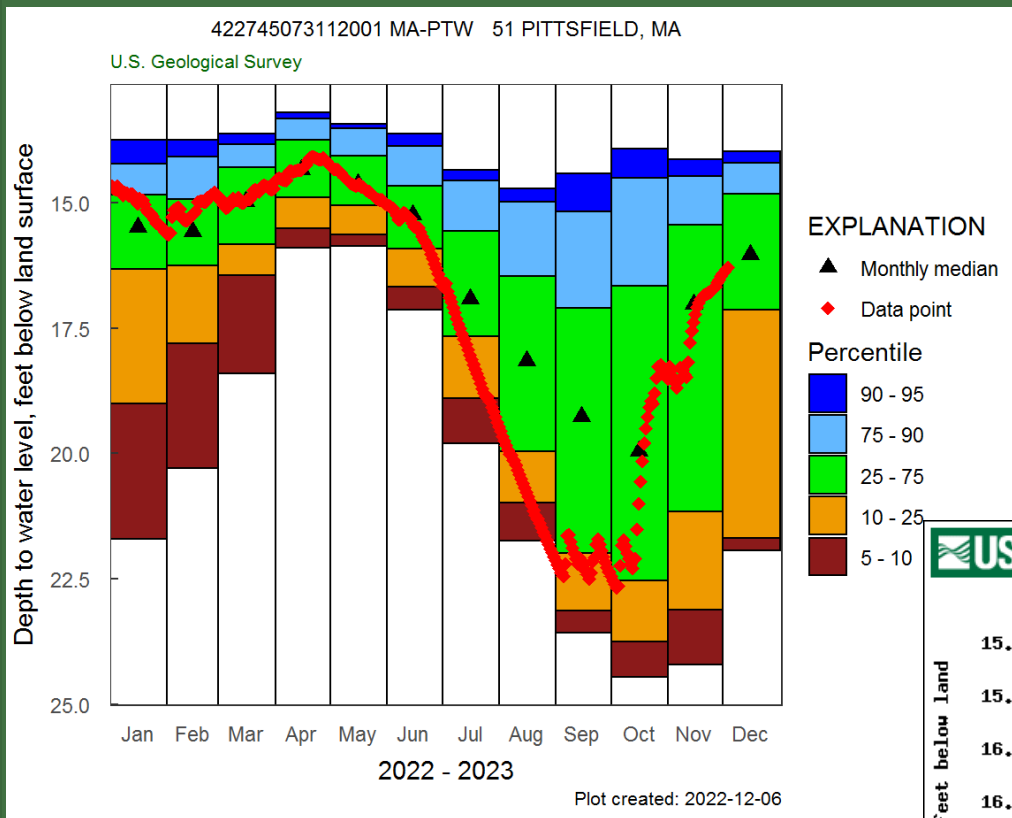


Period of Record

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

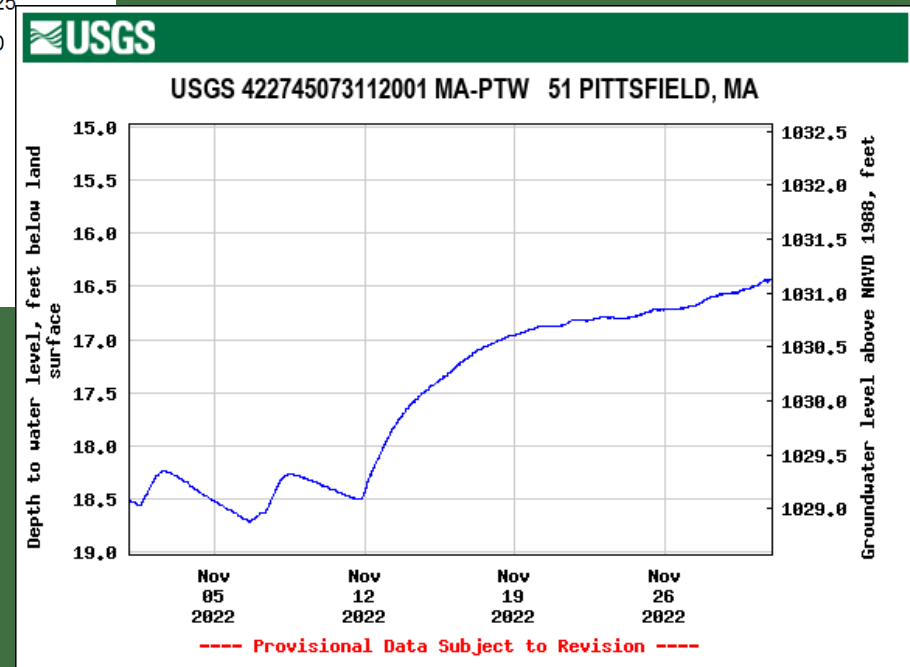


PTW 51 Pittsfield, MA

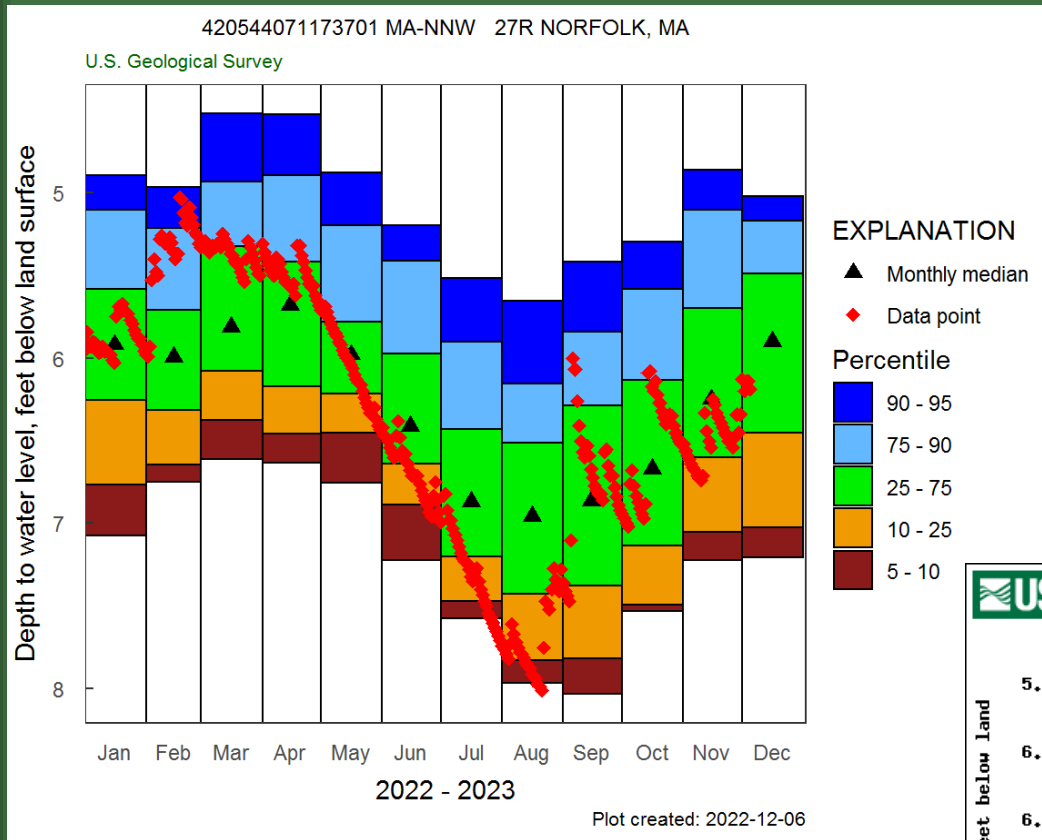


Period of Record

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

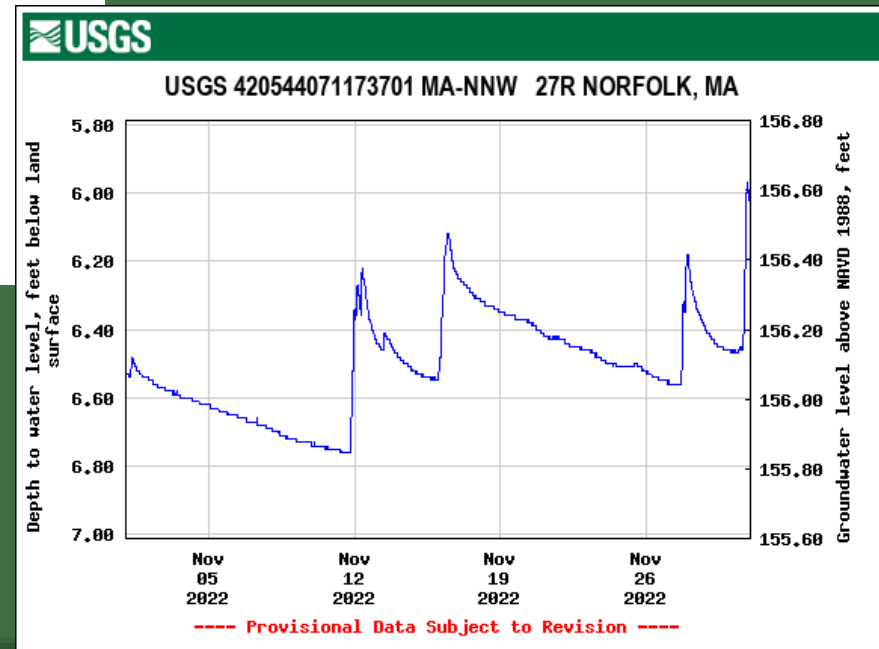


NNW 27R Norfolk, MA

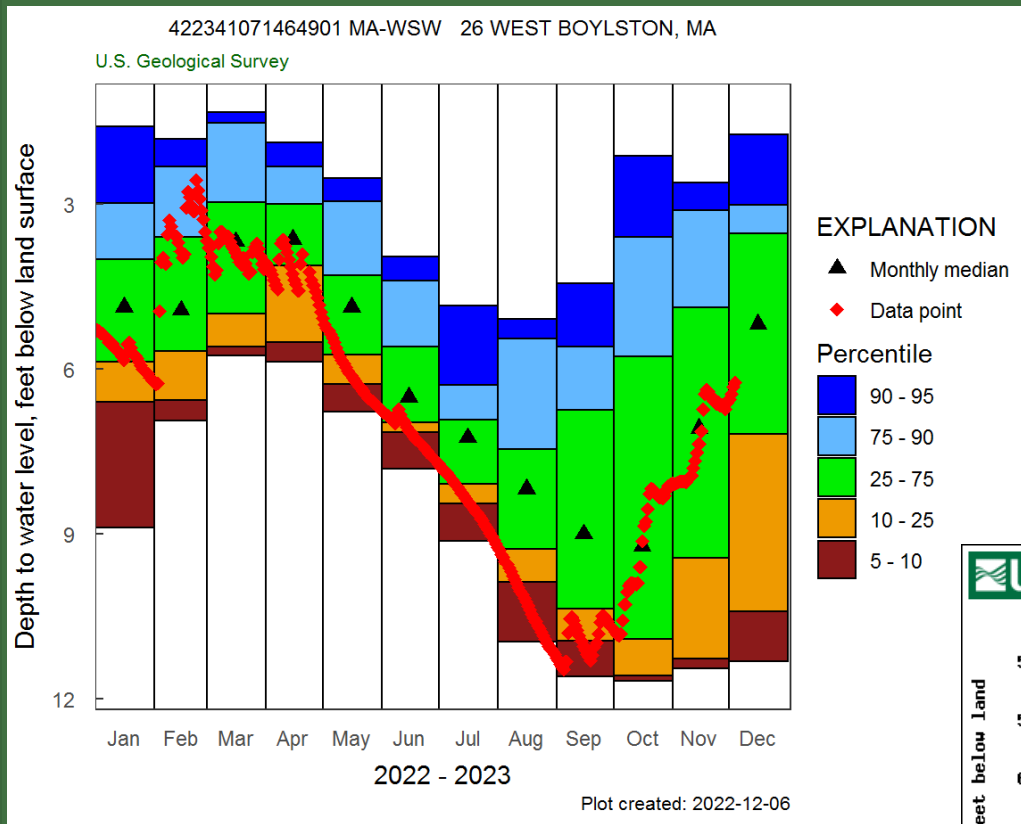


Period of Record

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

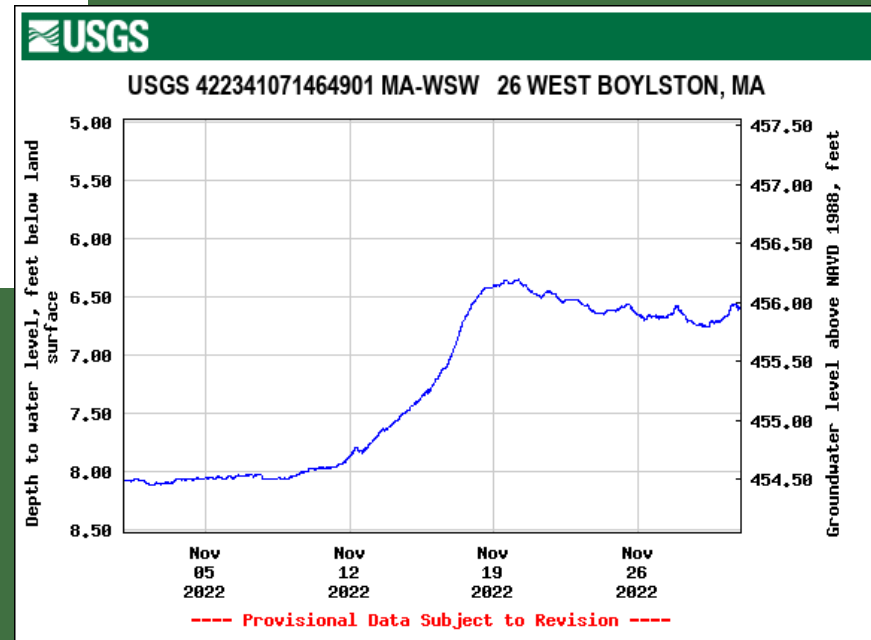


BMW 26 West Boylston, MA

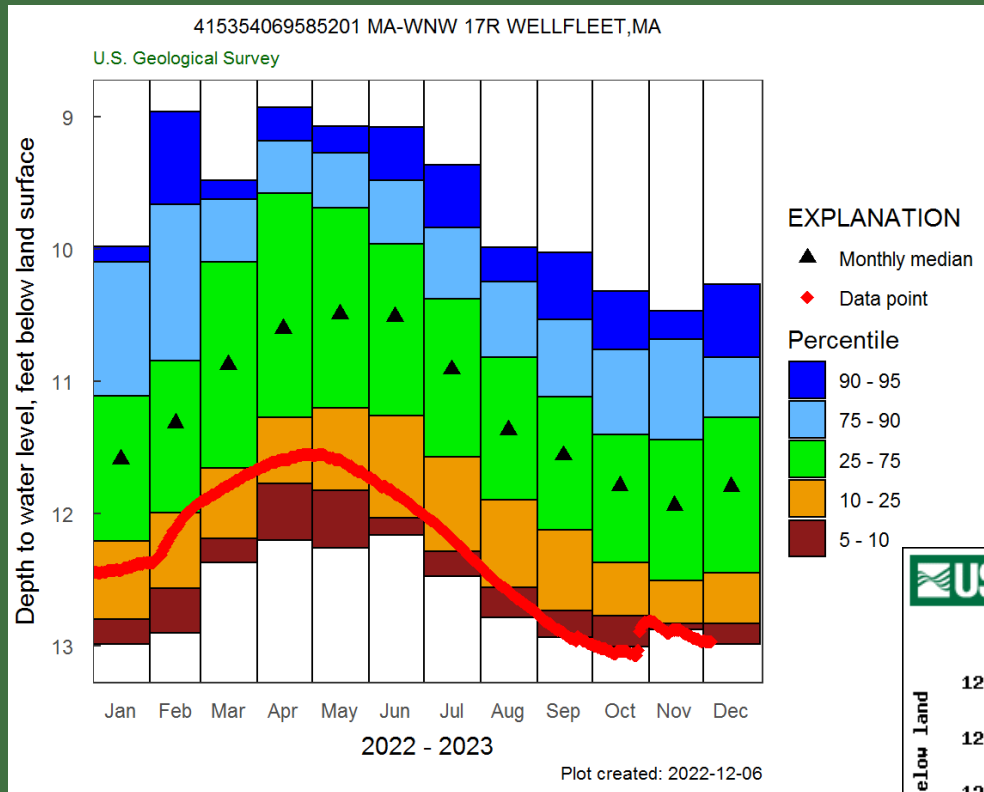


Period of Record

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

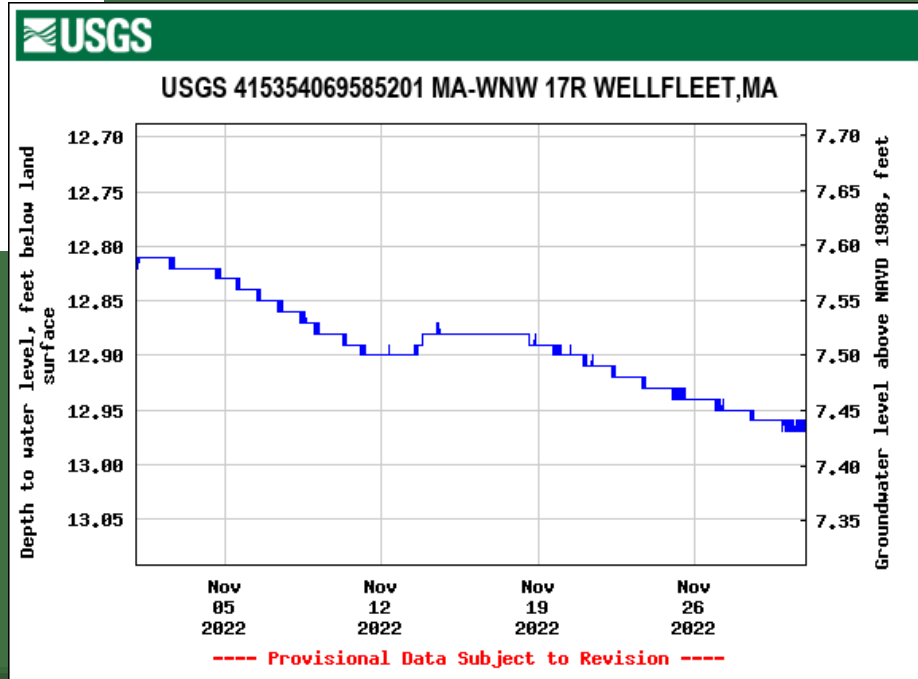


WNW 17R Wellfleet, MA

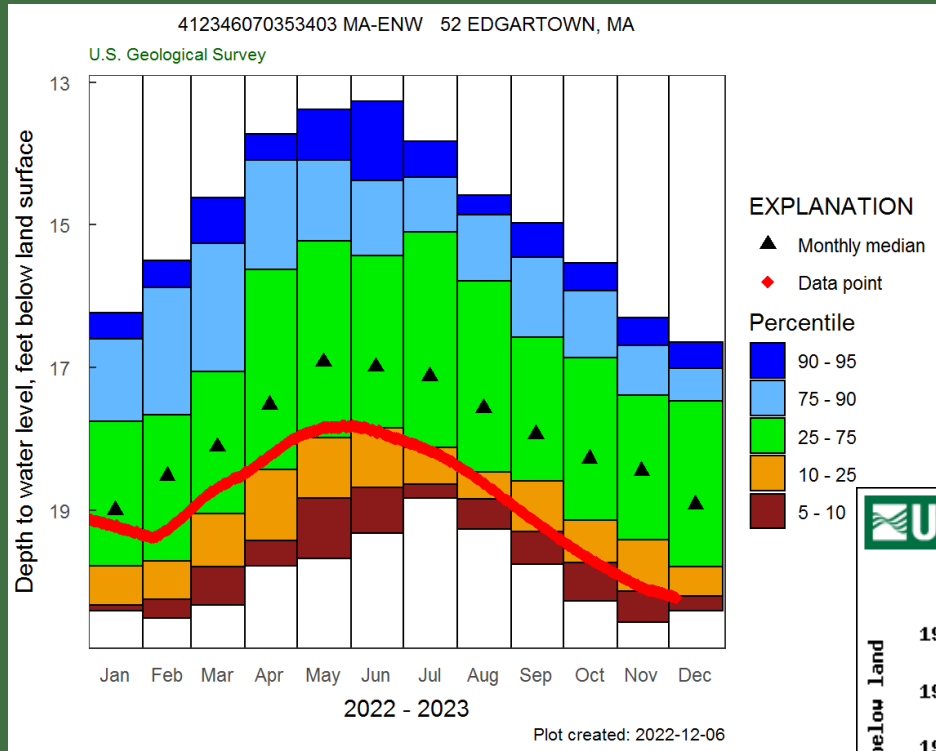


Period of Record

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

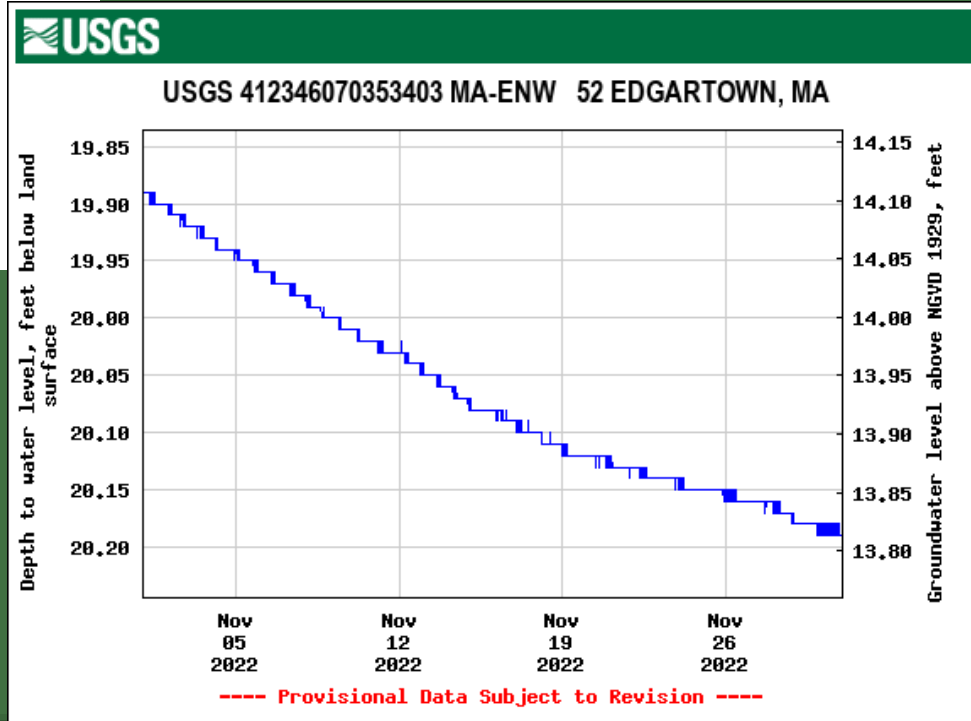


ENW 52, Edgartown, MA



Period of Record

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



Questions?

