

# Streamflow and Groundwater Conditions in Massachusetts

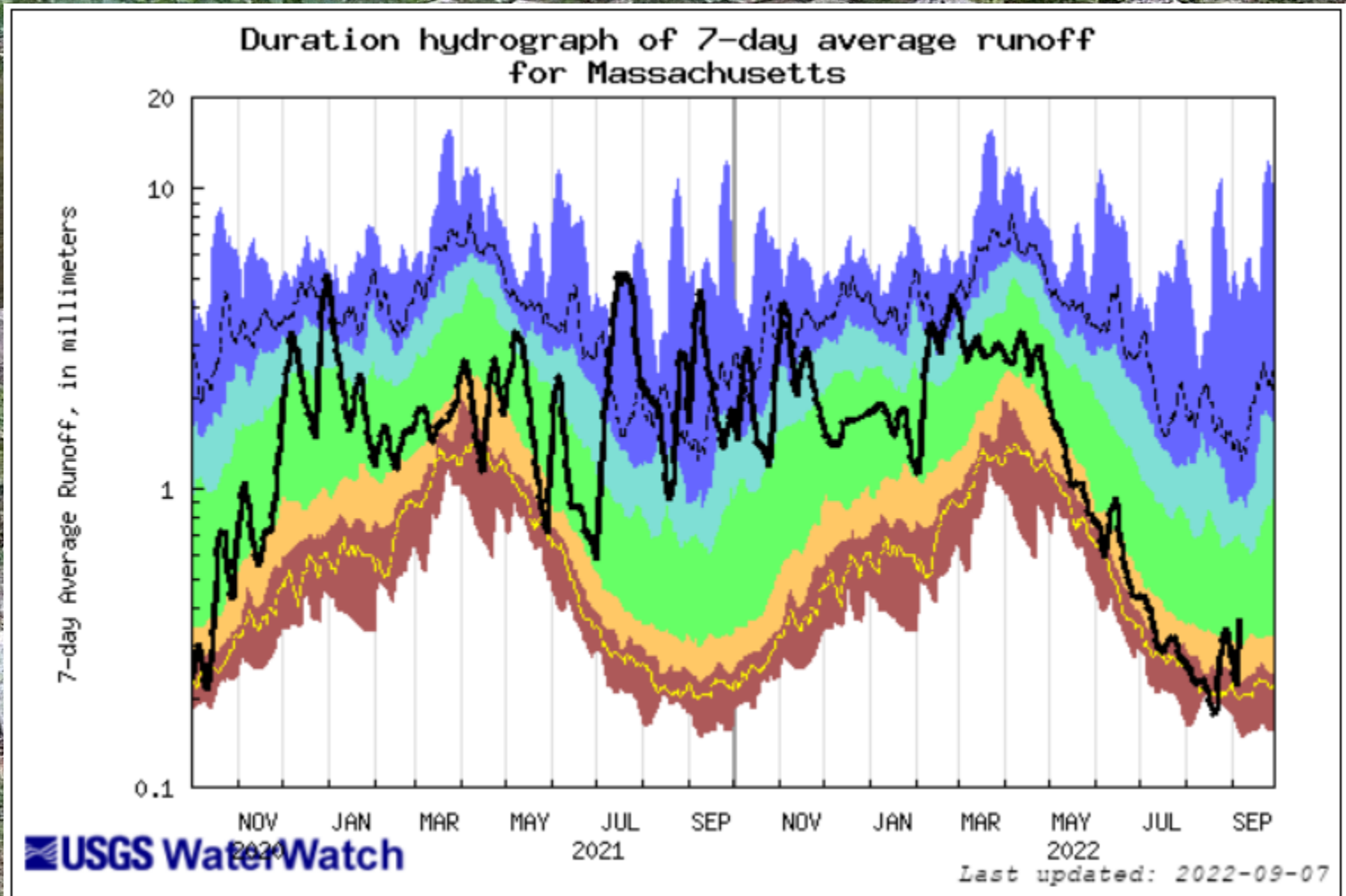
September 07, 2022

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U.S. Geological Survey  
New England Water Science Center





# 7-Day Streamflow Conditions Oct. 1, 2020 - Sept. 30, 2022



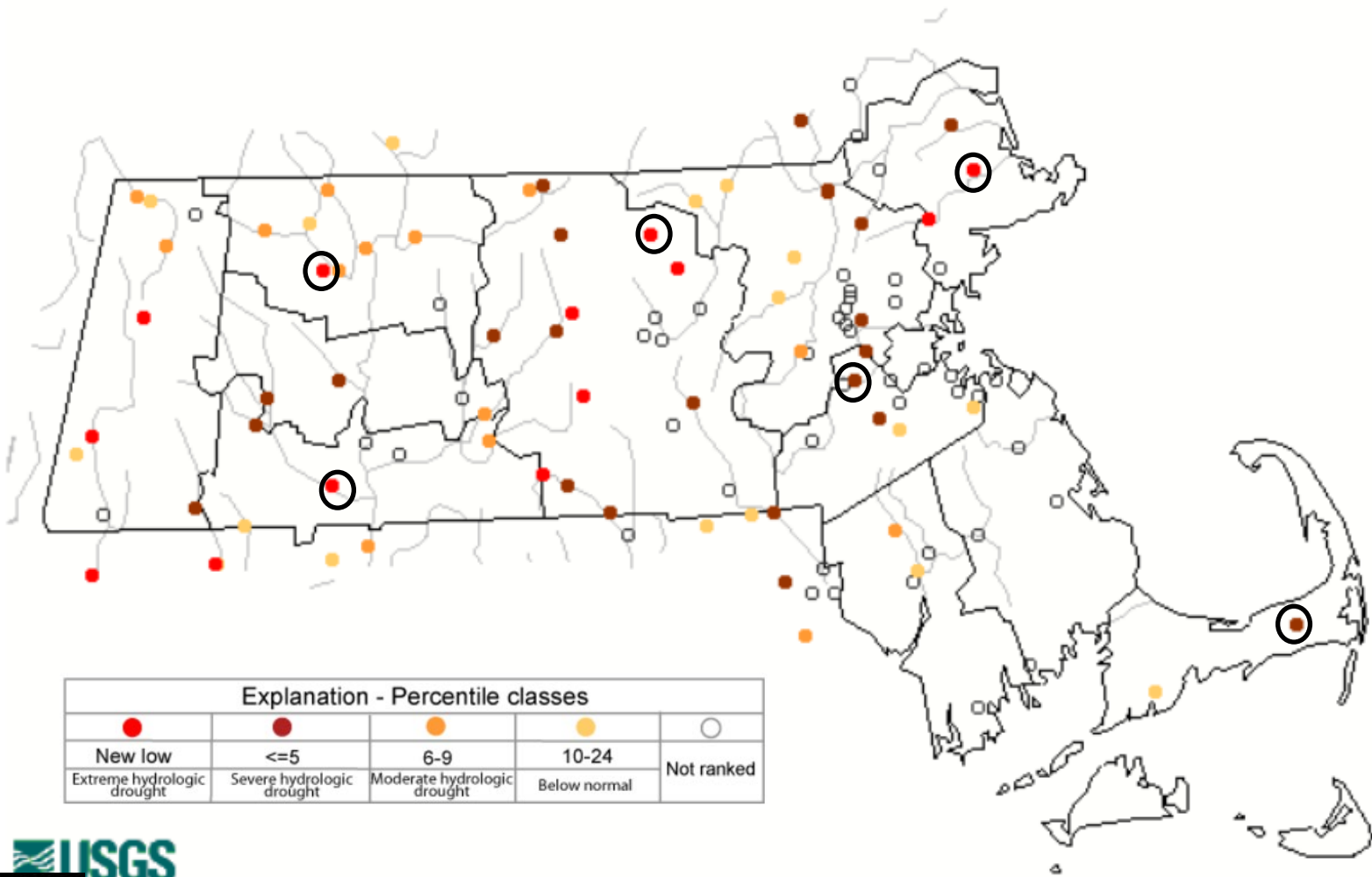
**Explanation - Percentile classes**

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			








# Map of Below Normal Monthly Average Streamflow

August 2022



Explanation - Percentile classes

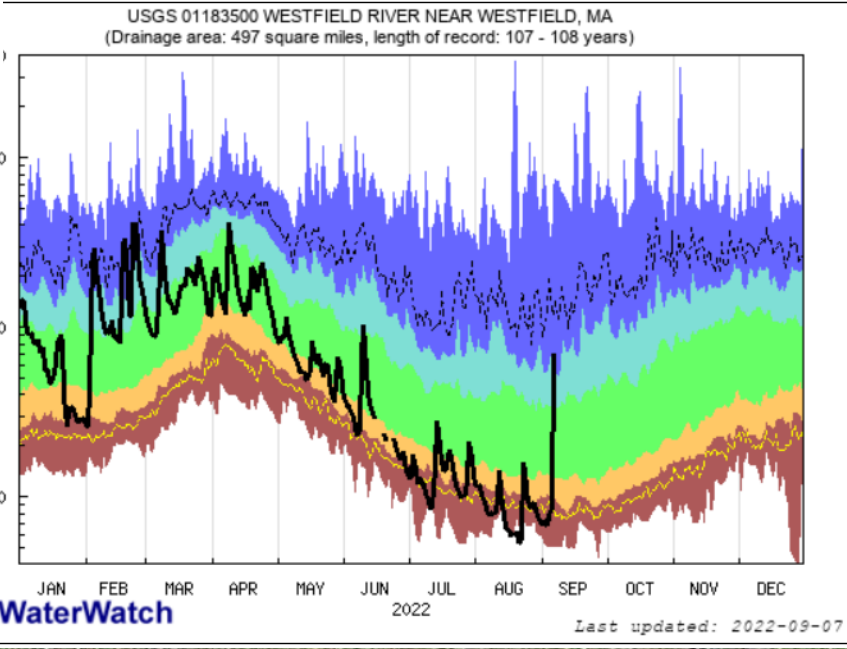
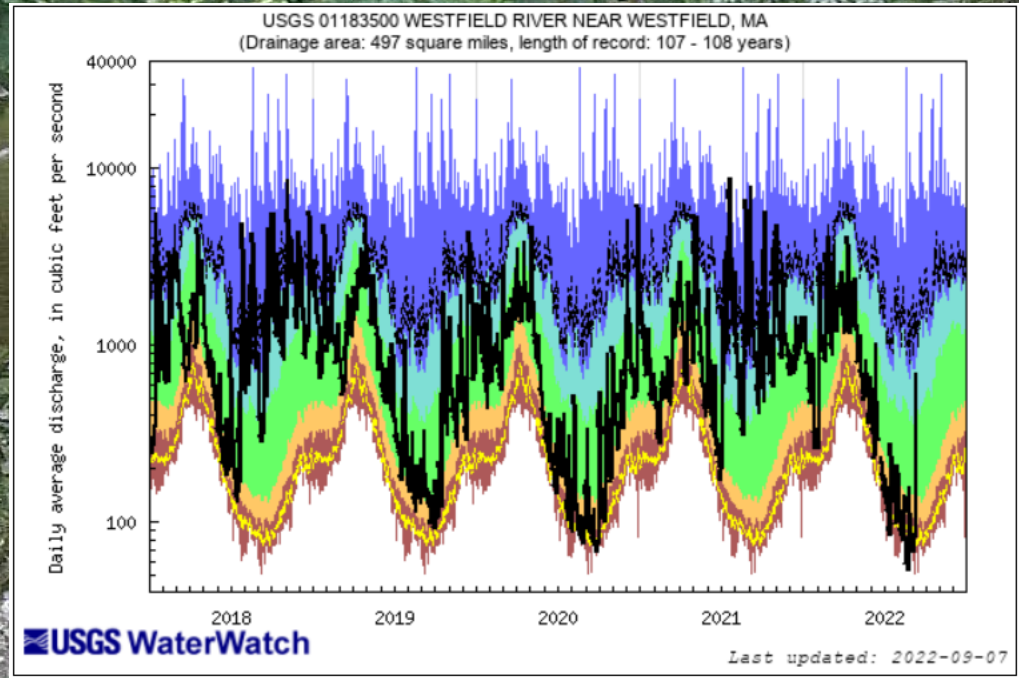
				
New low	$\leq 5$	6-9	10-24	Not ranked
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	





# Daily Avg. –Westfield River– Western MA

(NWS River Forecast Station)

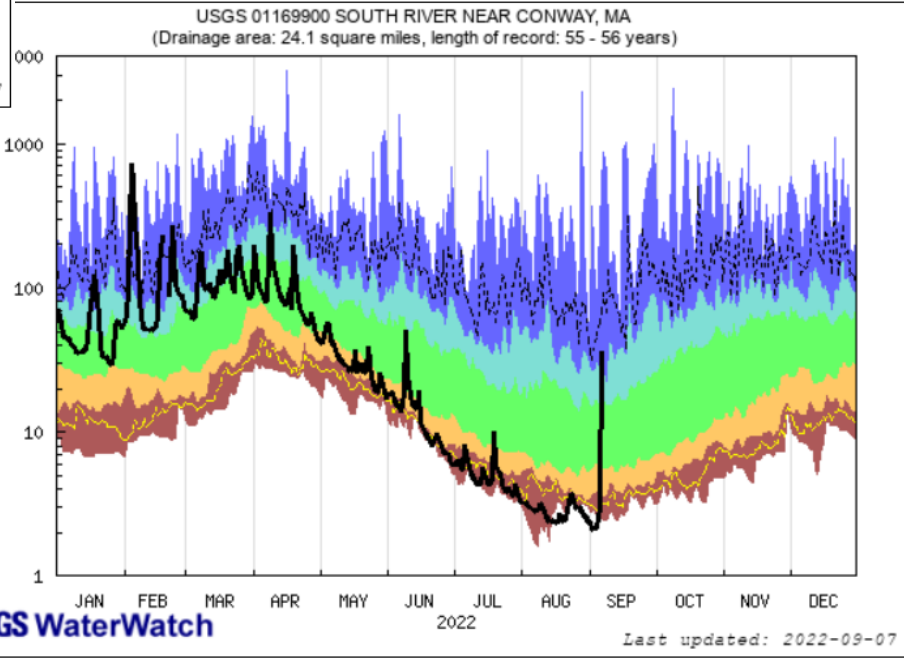
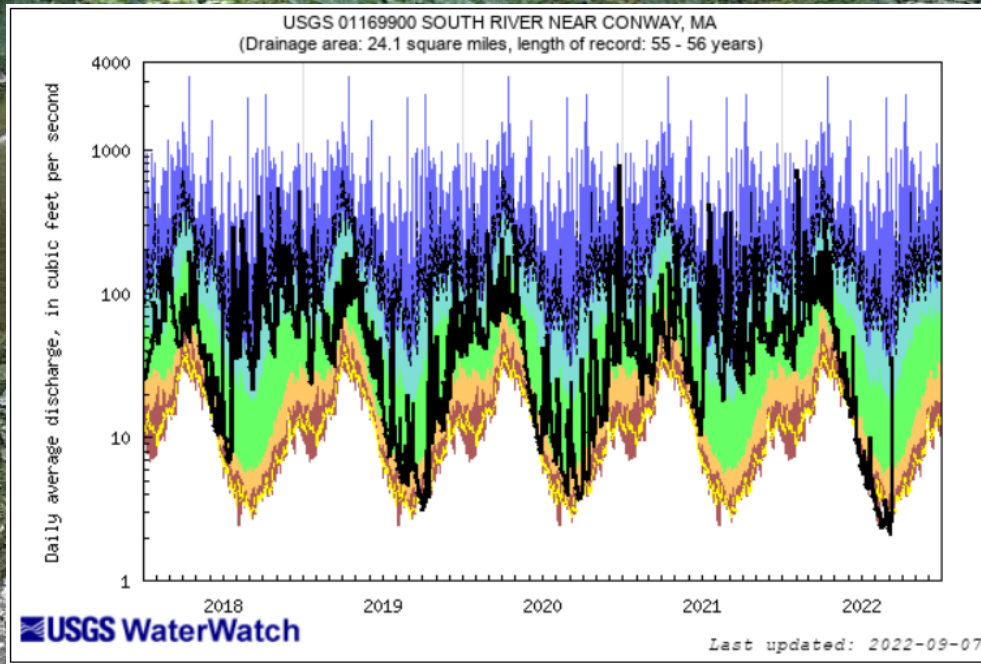


Explanation - Percentile classes

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



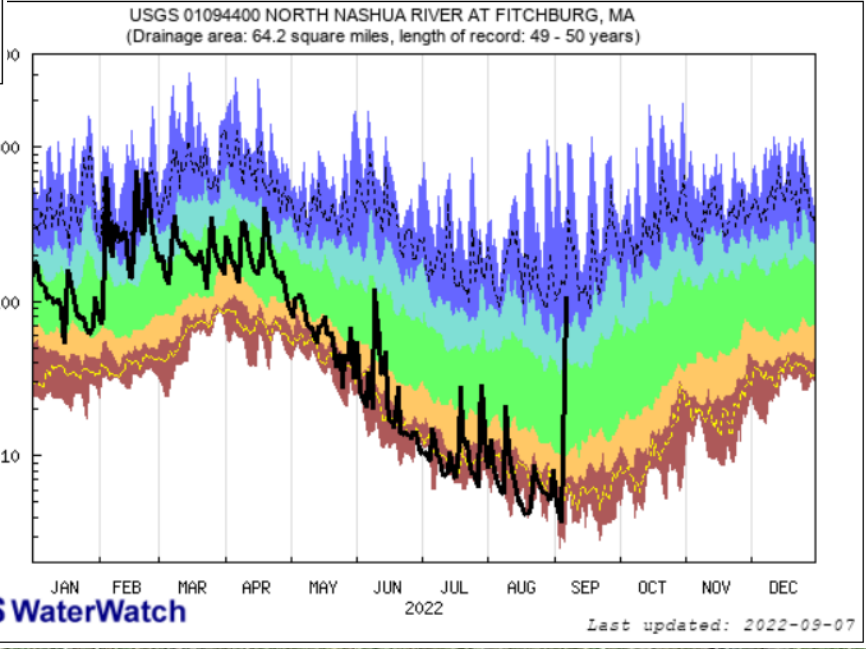
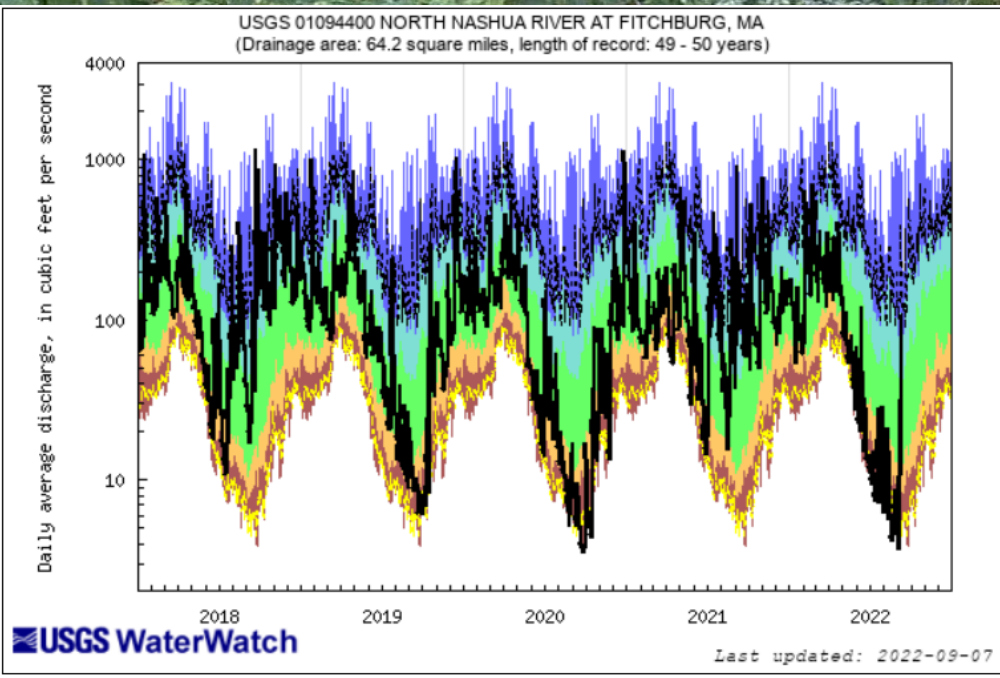
Explanation - Percentile classes

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)



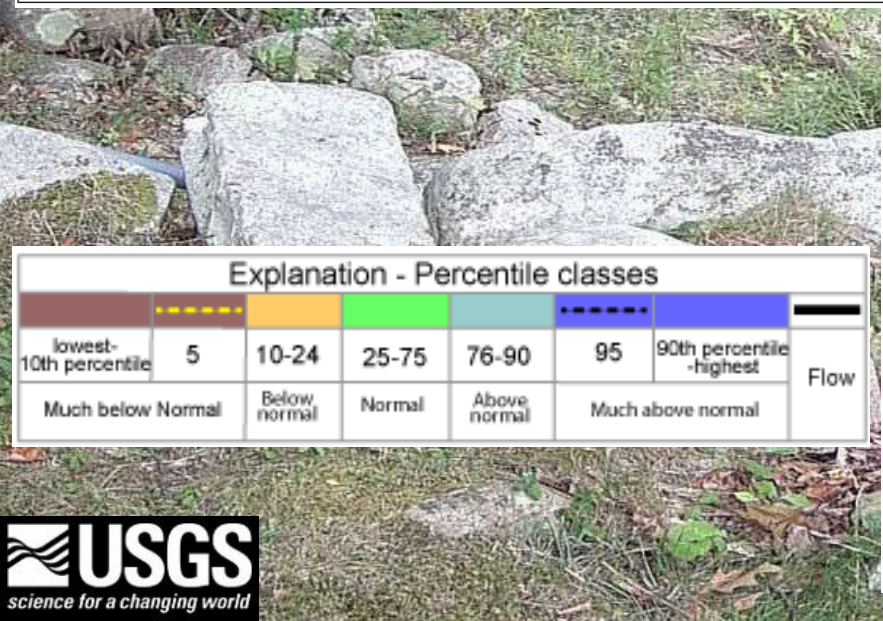
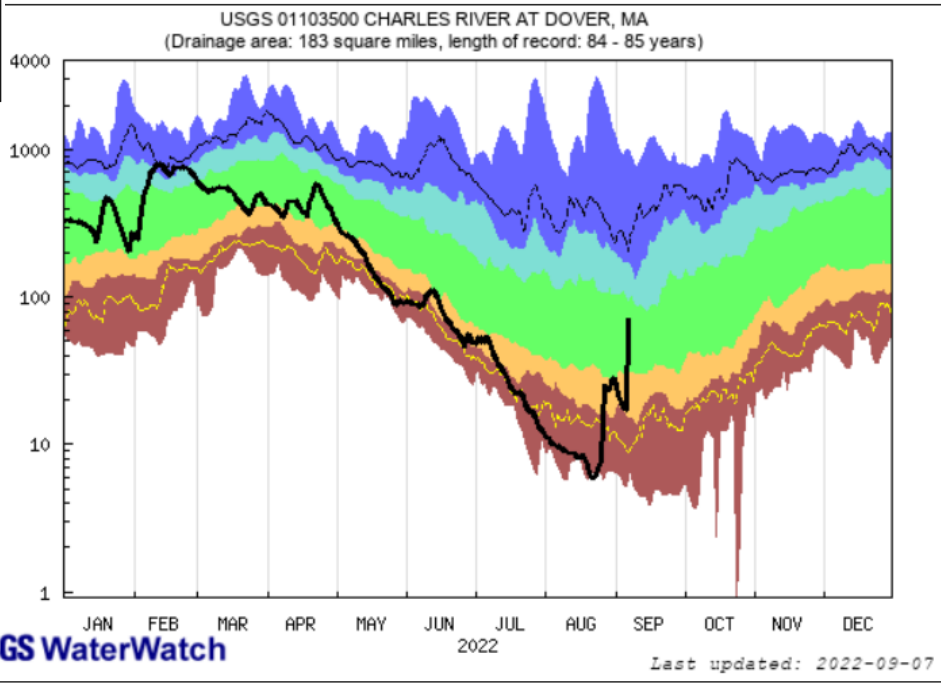
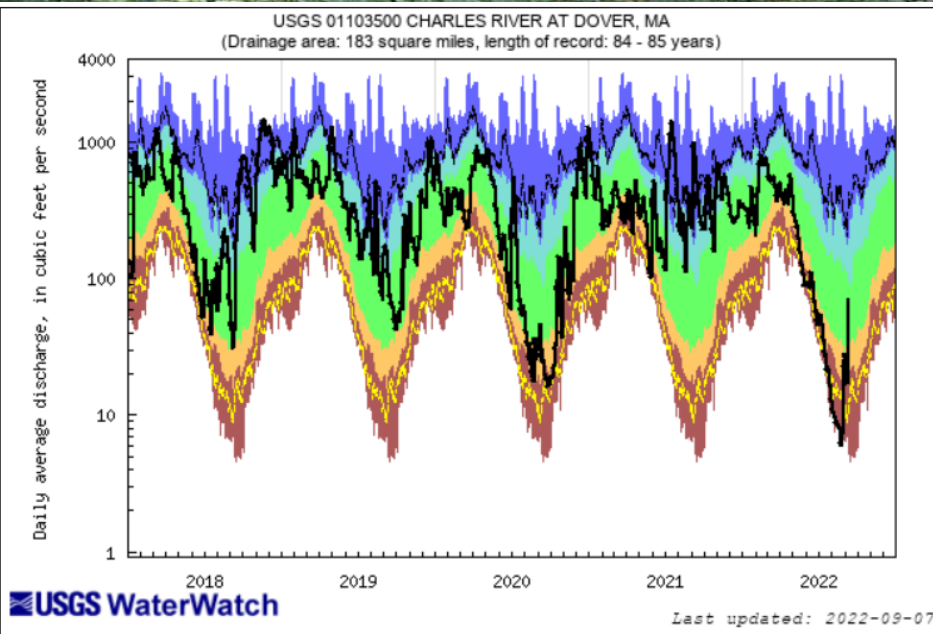
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

USGS  
science for a changing world



# Daily Avg. – Charles River – Eastern MA

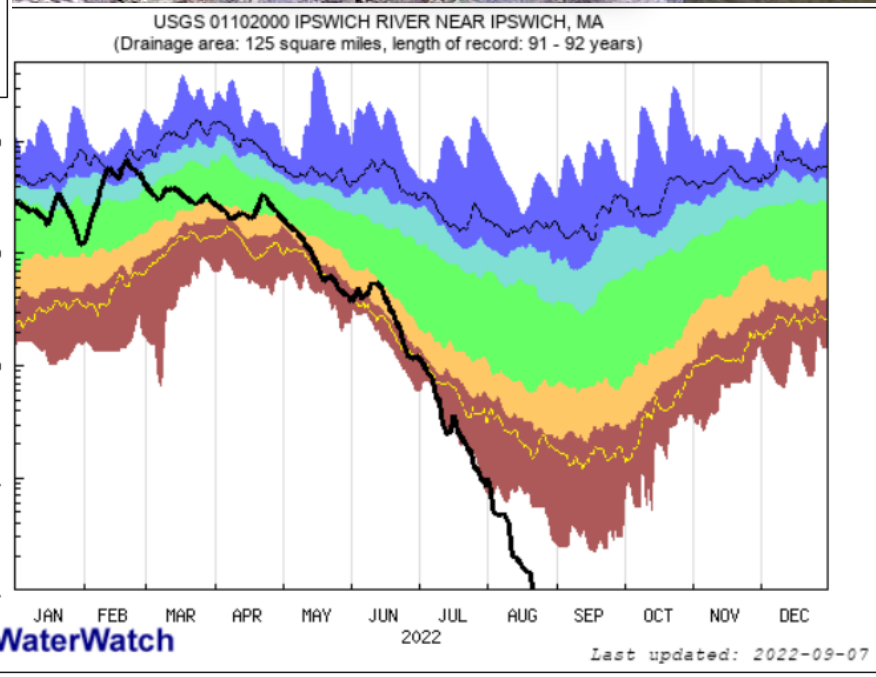
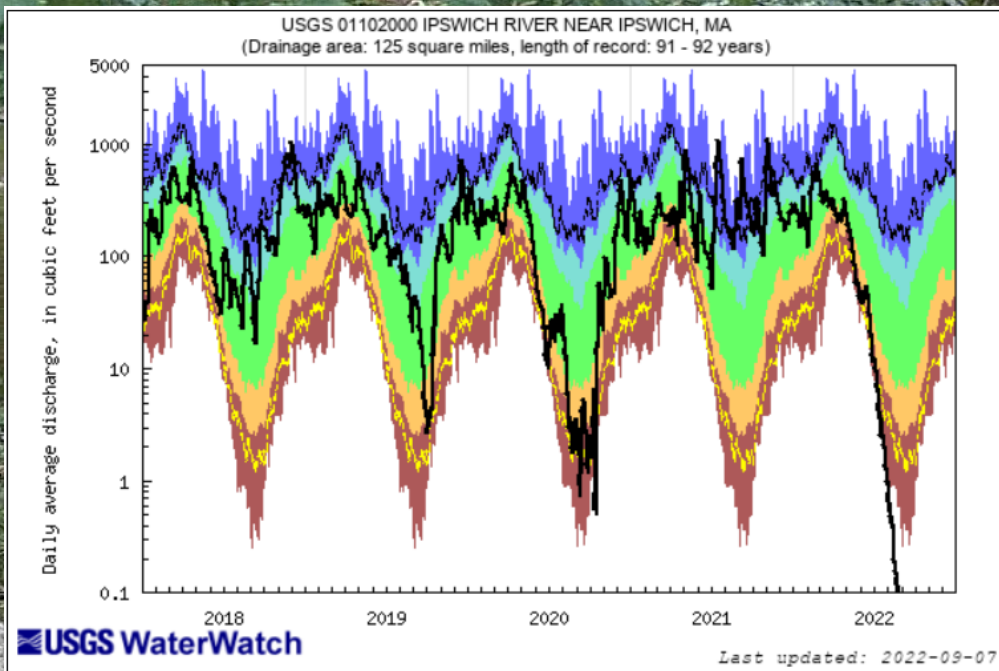
(NWS River Forecast Station)



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		Flow



# Daily Avg. Ipswich River— Northeastern MA

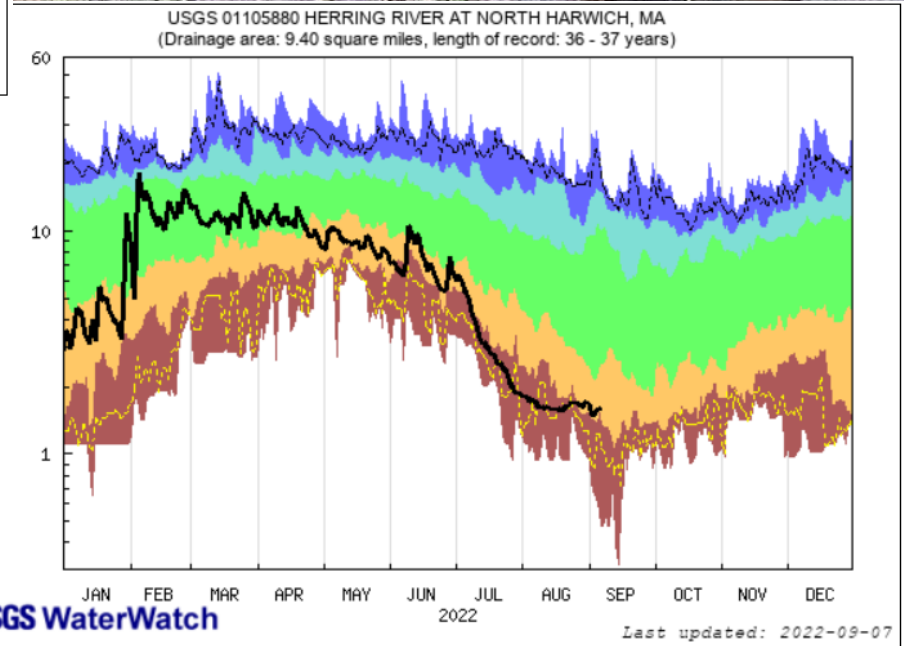
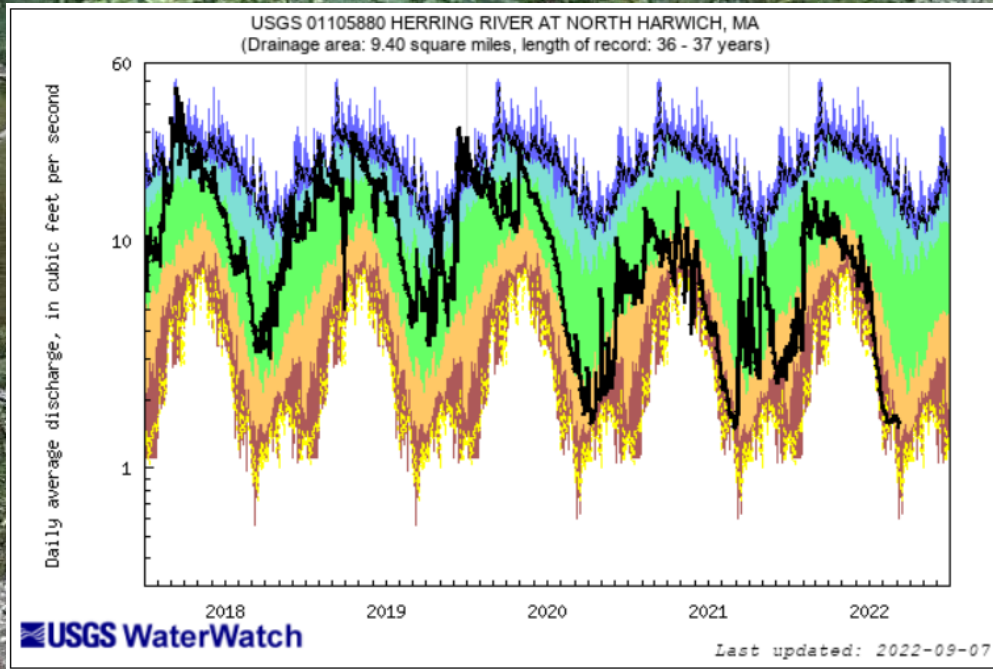


Explanation - Percentile classes

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



# Daily Avg. Herring River – Cape Cod



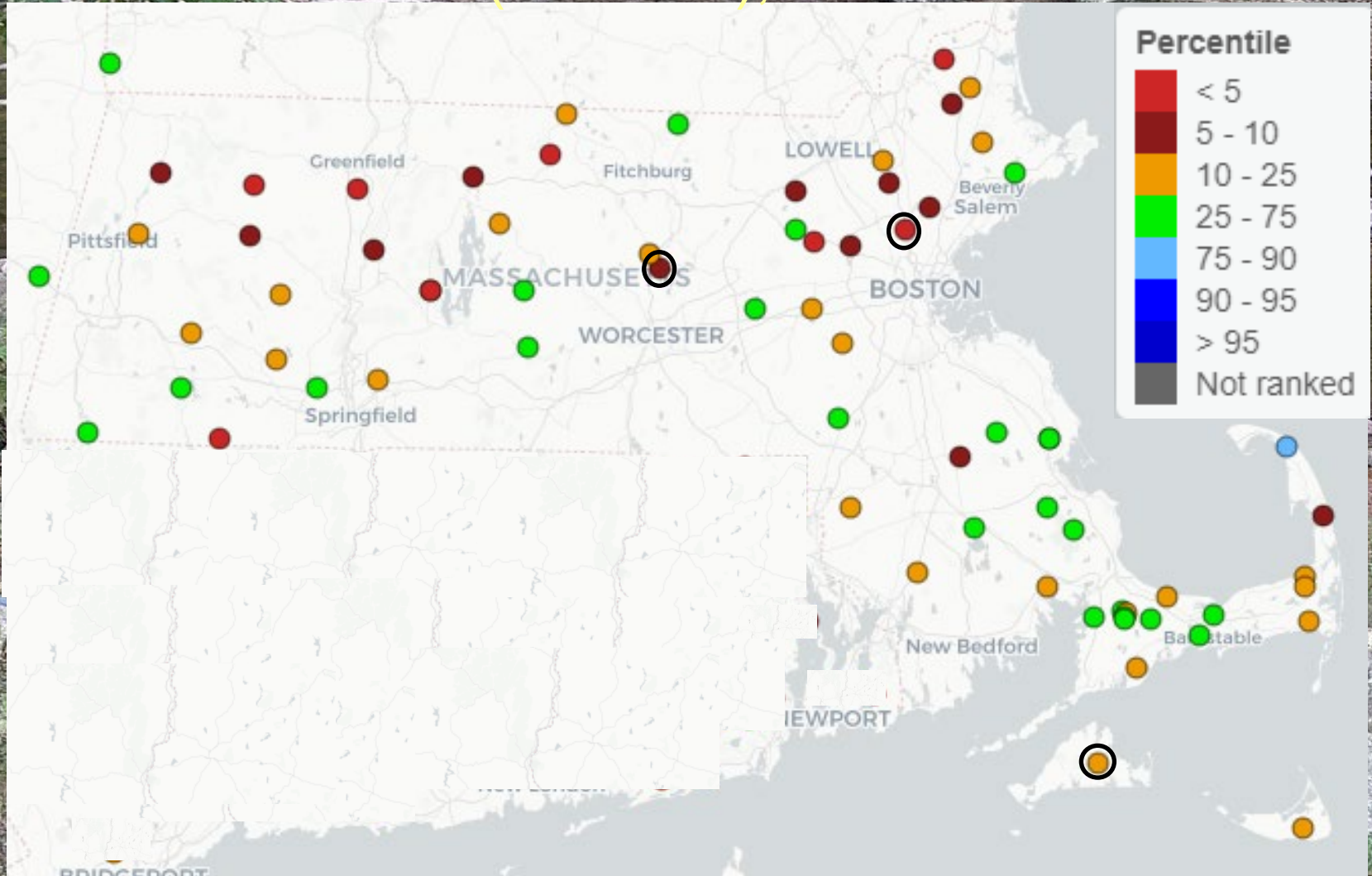
Explanation - Percentile classes

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		



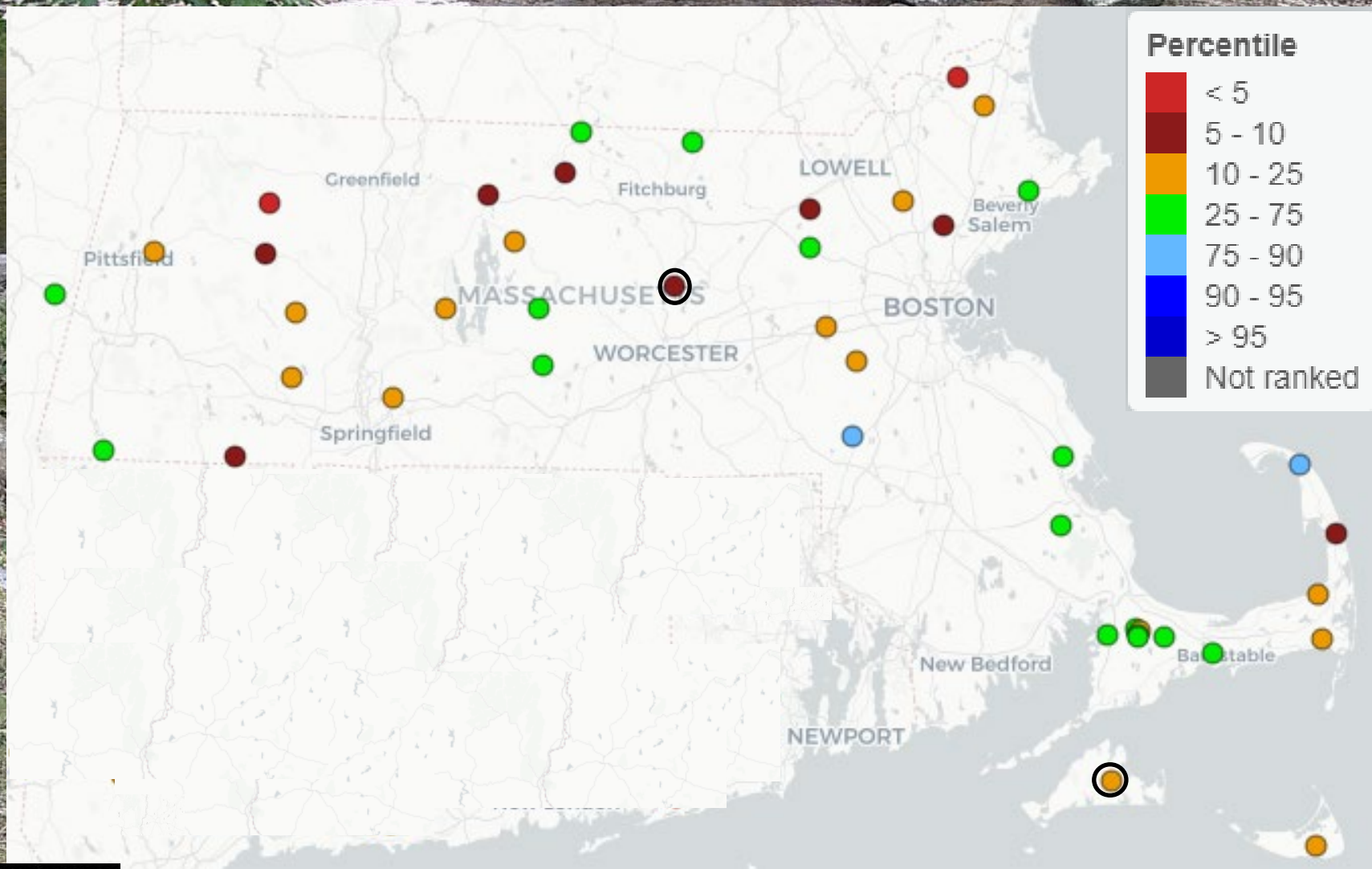
# Climate Response Network (CRN)

## Groundwater Conditions , July 31(discrete), September 05 (realtime), 2022





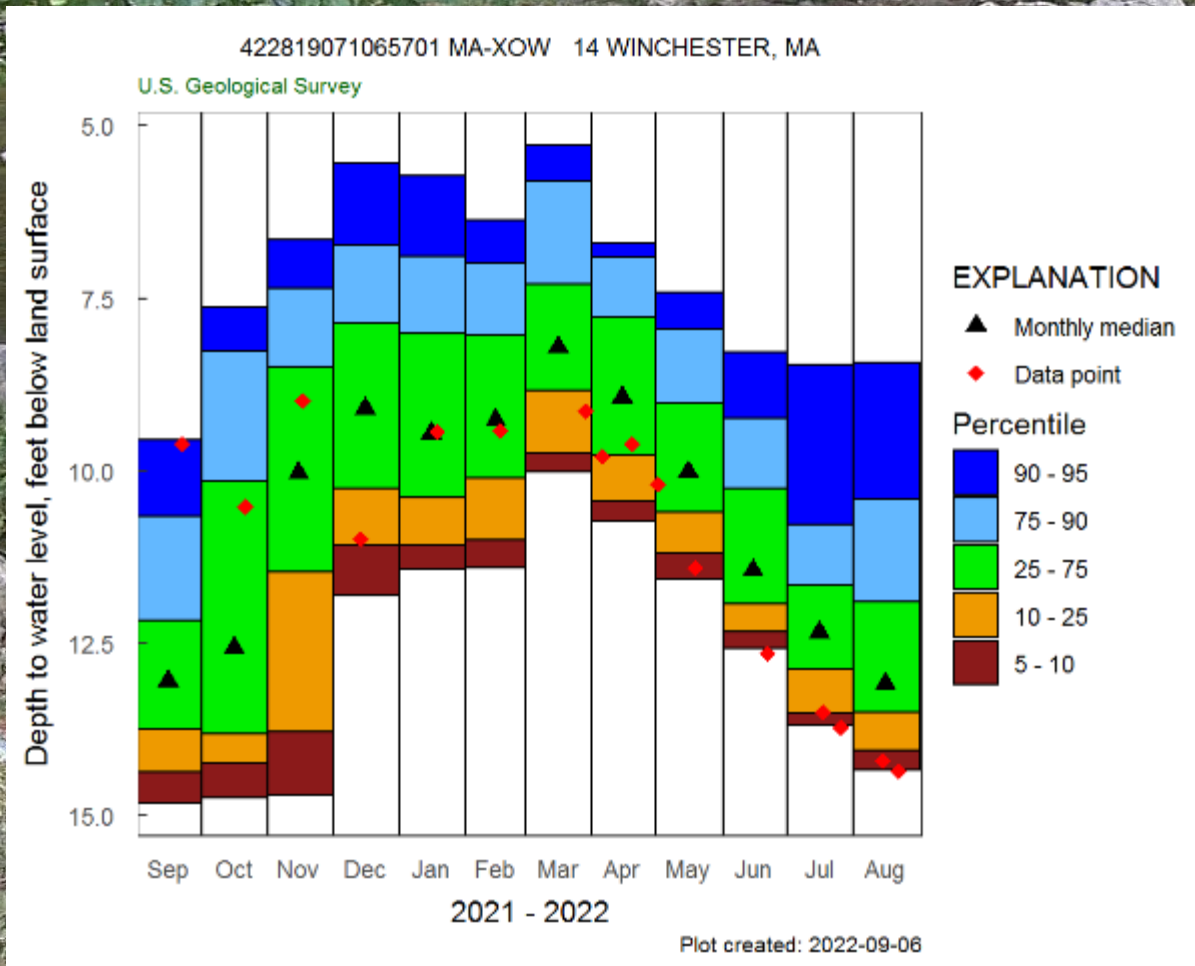
# RT Climate Response Network (CRN) Groundwater Conditions September 06, 2022





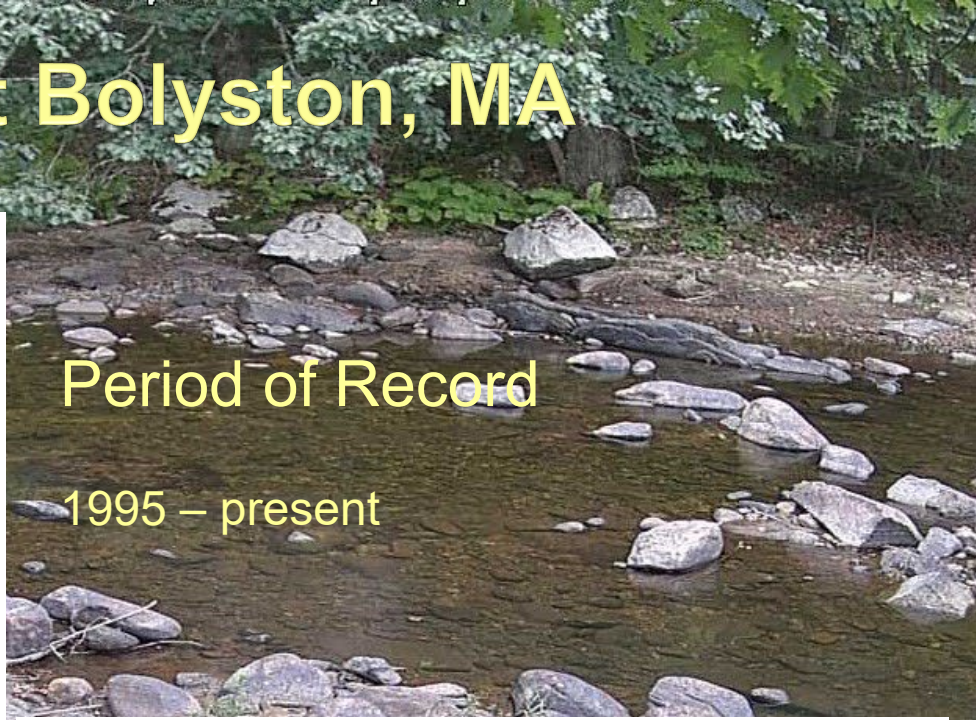
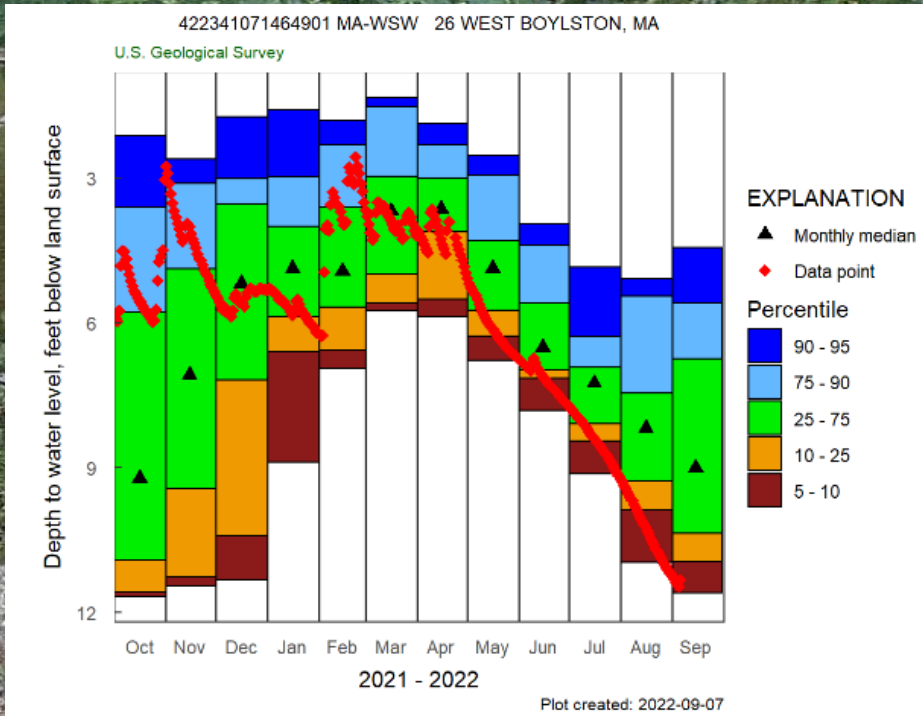
# XOW 14, Winchester, MA

Period of Record  
1940 – present





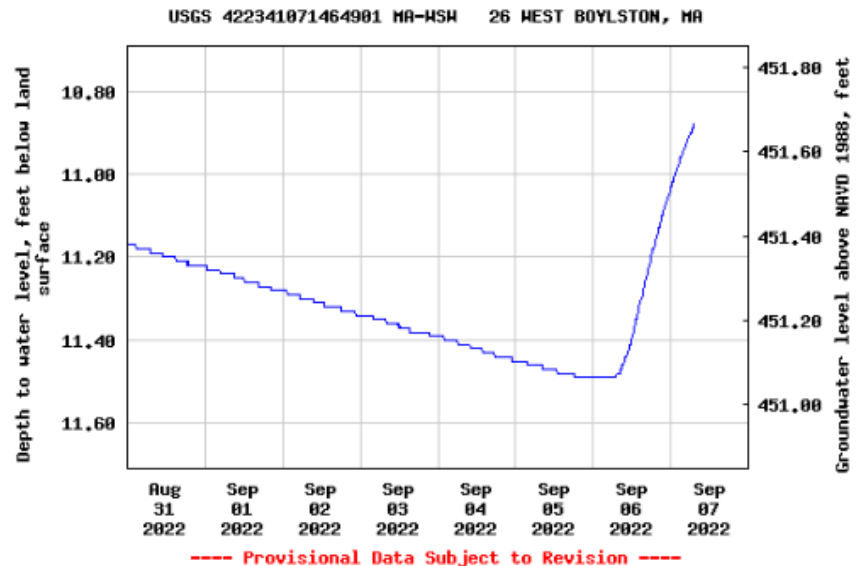
# BMW 26 West Boylston, MA



## Period of Record

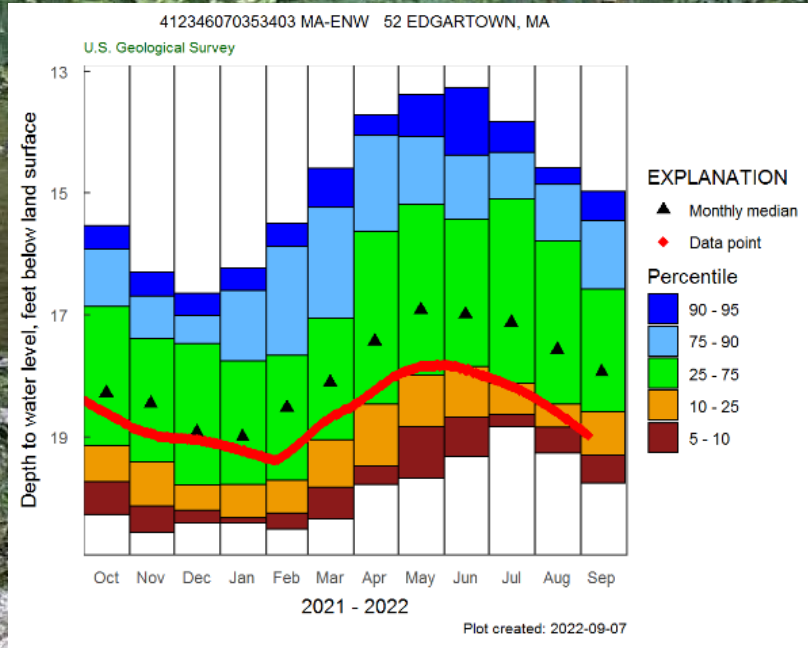
1995 – present

**Depth to water level, feet below land surface**  
Most recent instantaneous value: 10.88 09-07-2022 07:15 EDT





# ENW 52, Edgartown, MA

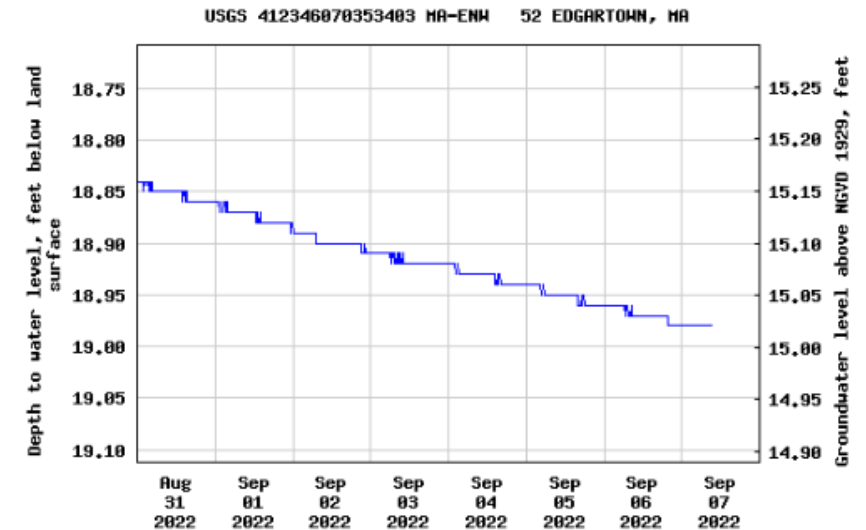


Period of Record

1976 – present

## Depth to water level, feet below land surface

Most recent instantaneous value: 18.98 09-07-2022 09:15 EDT





# Monthly Record Lows

Site Number	Site name	Period of Record	Monthly Minimum Below Land Surface (ft)	Recent Below Land Surface (ft)	Record Minimum Below Land Surface (ft)	Date of Record Minimum
423339072524101	MA-HMW 8 HAWLEY, MA	33	5.79	7.88	6.92	1995-09-27
423311072355801	MA-DFW 44R DEERFIELD, MA	56	5.68	6.2	6.68	2010-09-27
423257071243702	MA-WWW 160 WESTFORD, MA	19	13.24	13.43	13.87	2016-09-30
422906072124301	MA-PHW 16 PETERSHAM, MA	36	16.02	16.15	16.93	2001-12-19
422733072532601	MA-CYW 13 CUMMINGTON, MA	34	6.44	6.46	6.59	2010-09-27
421923072451001	MA-WXW 20 WESTHAMPTON, MA	31	15.78	16.17	18.83	2016-12-22



# Questions?

[https://apps.usgs.gov/hivis/camera/01185500\\_MA\\_WB\\_FarmingtonR\\_NewBoston](https://apps.usgs.gov/hivis/camera/01185500_MA_WB_FarmingtonR_NewBoston)