
Streamflow and Groundwater Conditions in Massachusetts

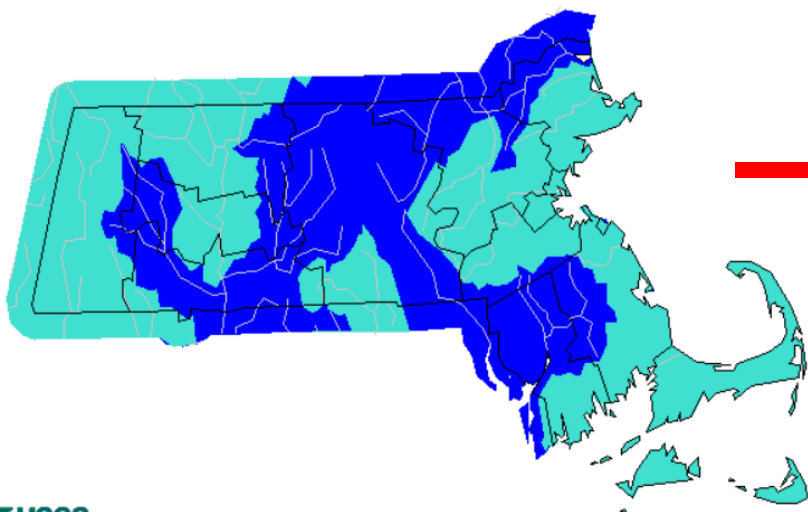
May 6, 2022

Jason Pollender
U.S. Geological Survey
New England Water Science Center

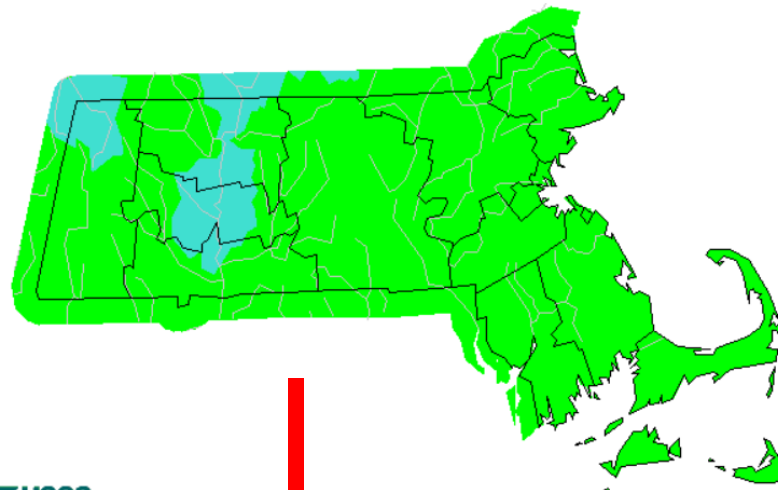


Average Streamflow Conditions – February-April 2022

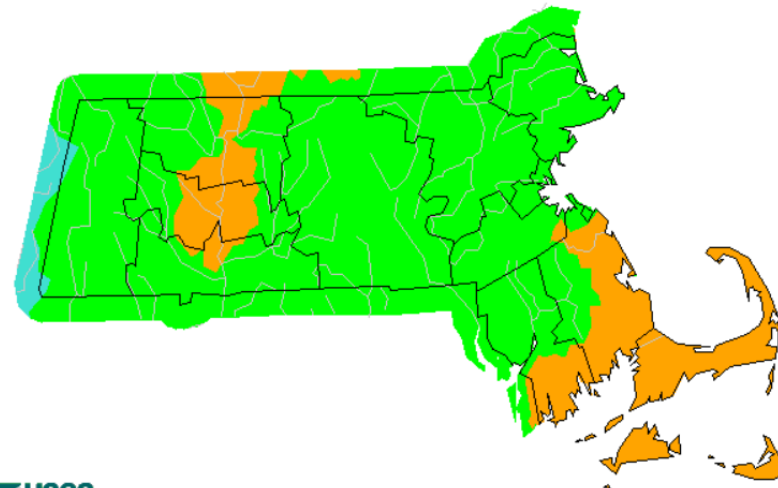
February 2022



March 2022



April 2022



USGS

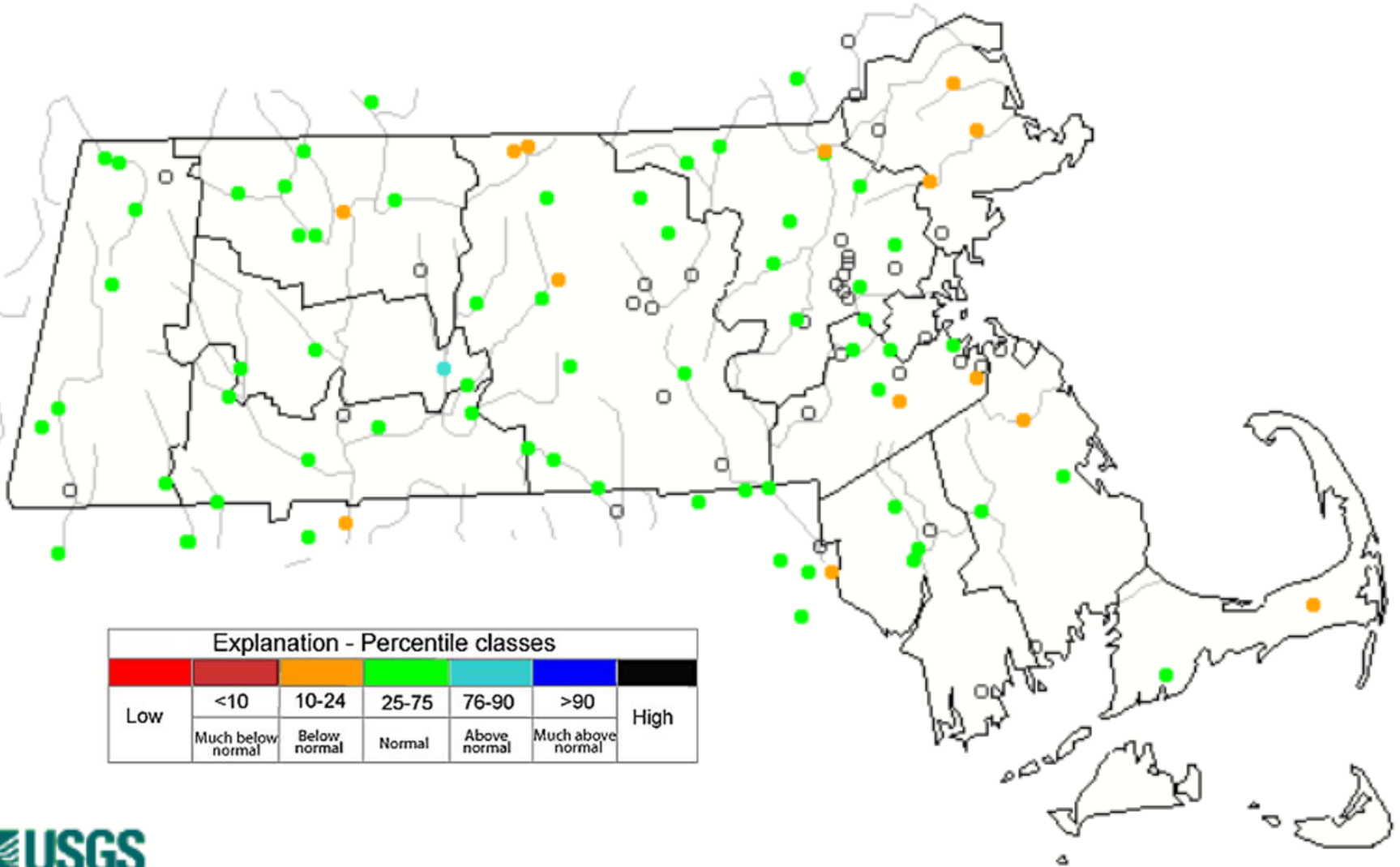
USGS







USGS

Explanation - Percentile classes						
Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

Average Streamflow Conditions – April 2022

April 2022

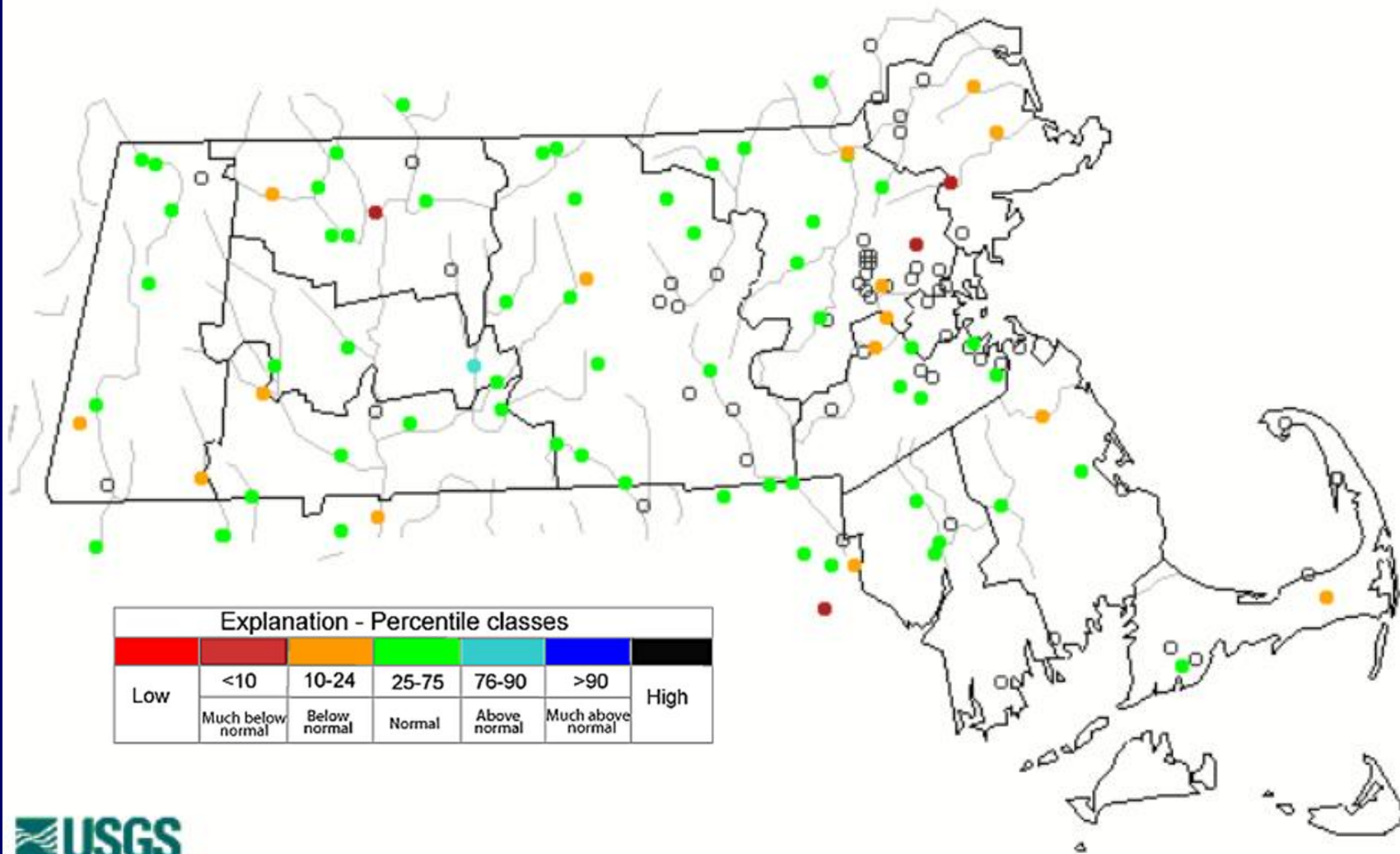


Explanation - Percentile classes							
							
Low	<10	10-24	25-75	76-90	>90	High	
	Much below normal	Below normal	Normal	Above normal	Much above normal		



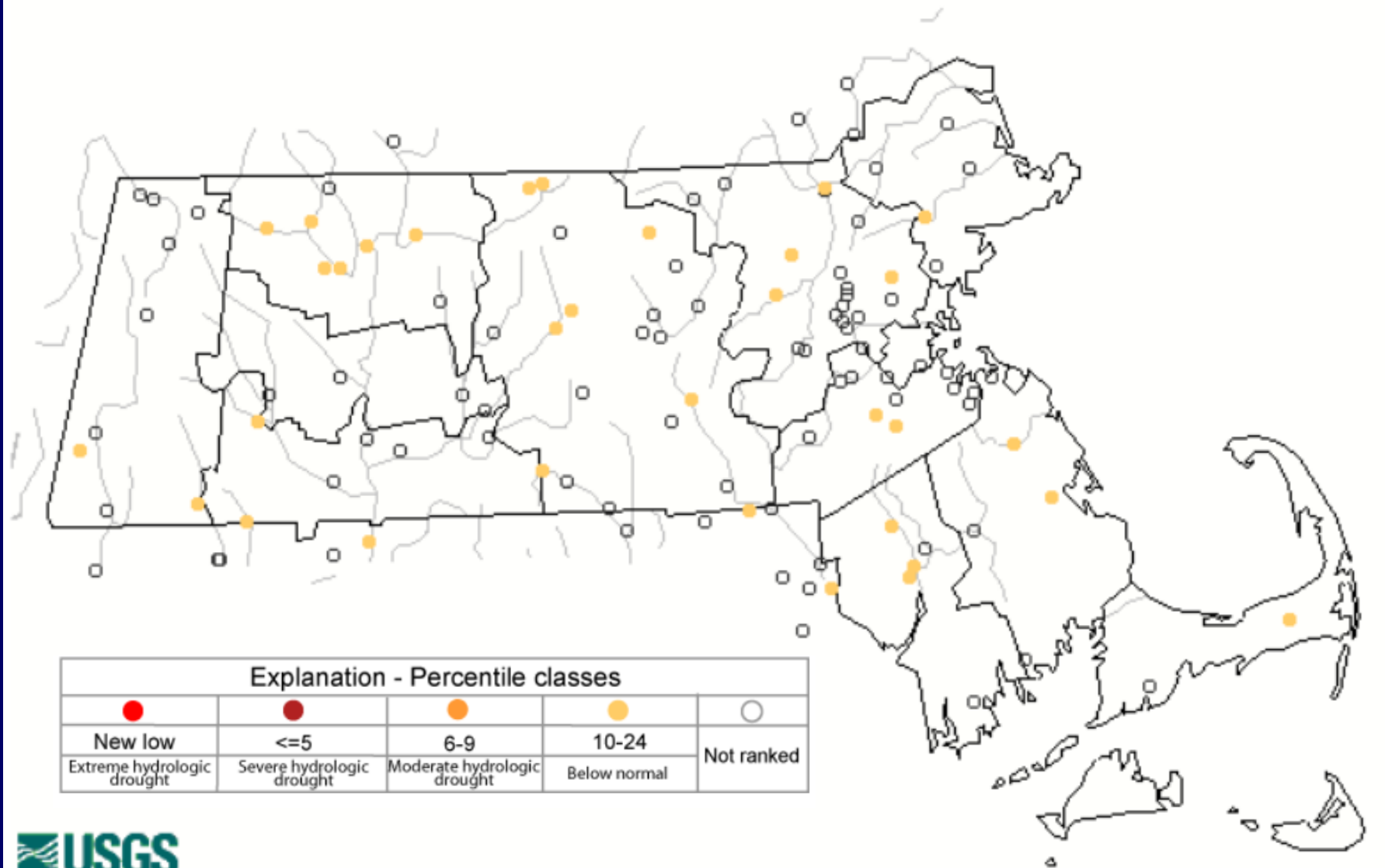
Average Streamflow Conditions – May 4, 2022

Hednesday, May 04, 2022 11:30ET



Map of Below Normal 7 Day Average Streamflow - May 3, 2022

Tuesday, May 03, 2022

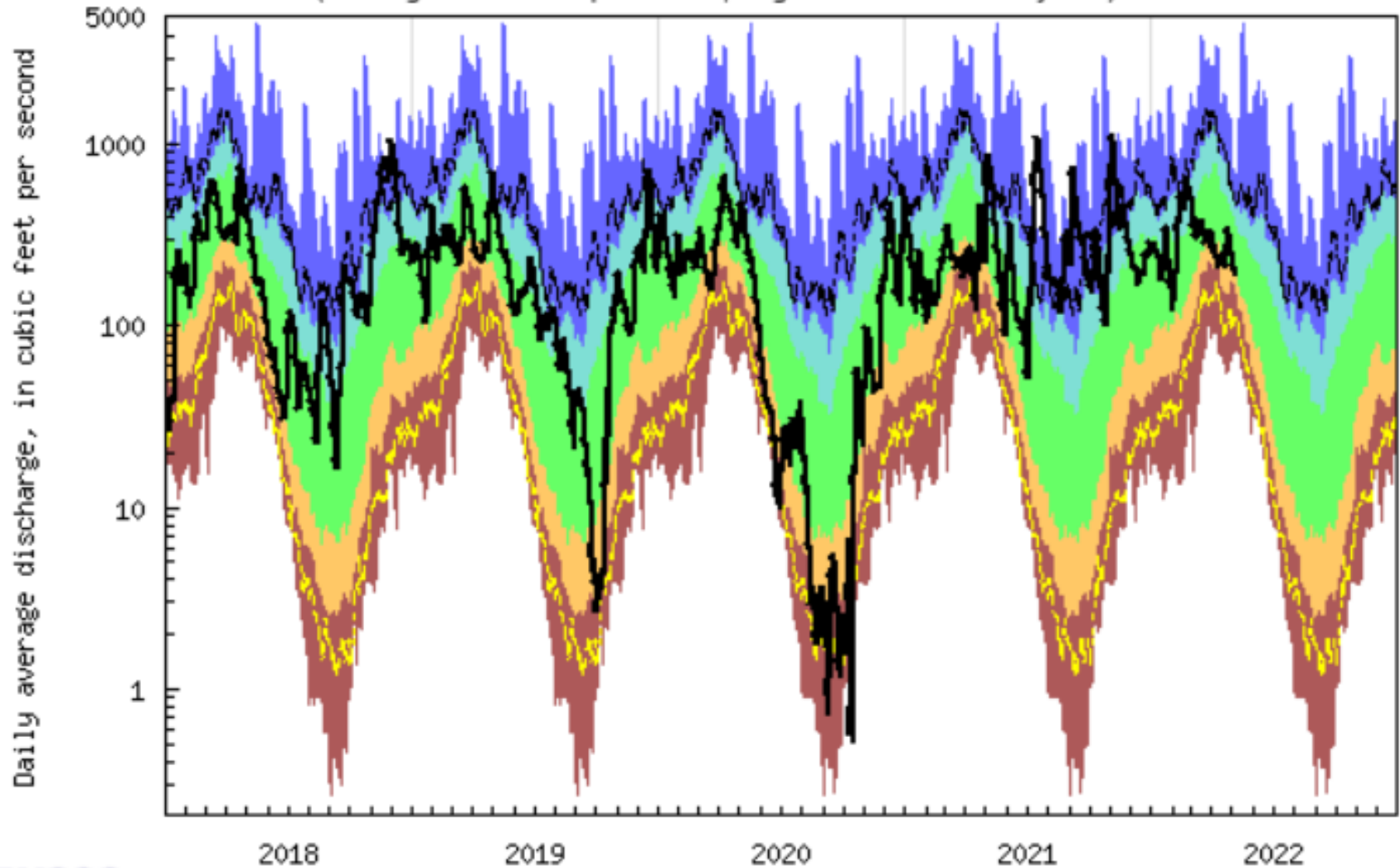


Explanation - Percentile classes				
New low	≤ 5	6-9	10-24	Not ranked
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	



Daily Avg. – Ipswich River – Northeastern MA

USGS 01102000 IPSWICH RIVER NEAR IPSWICH, MA
 (Drainage area: 125 square miles, length of record: 90 - 91 years)

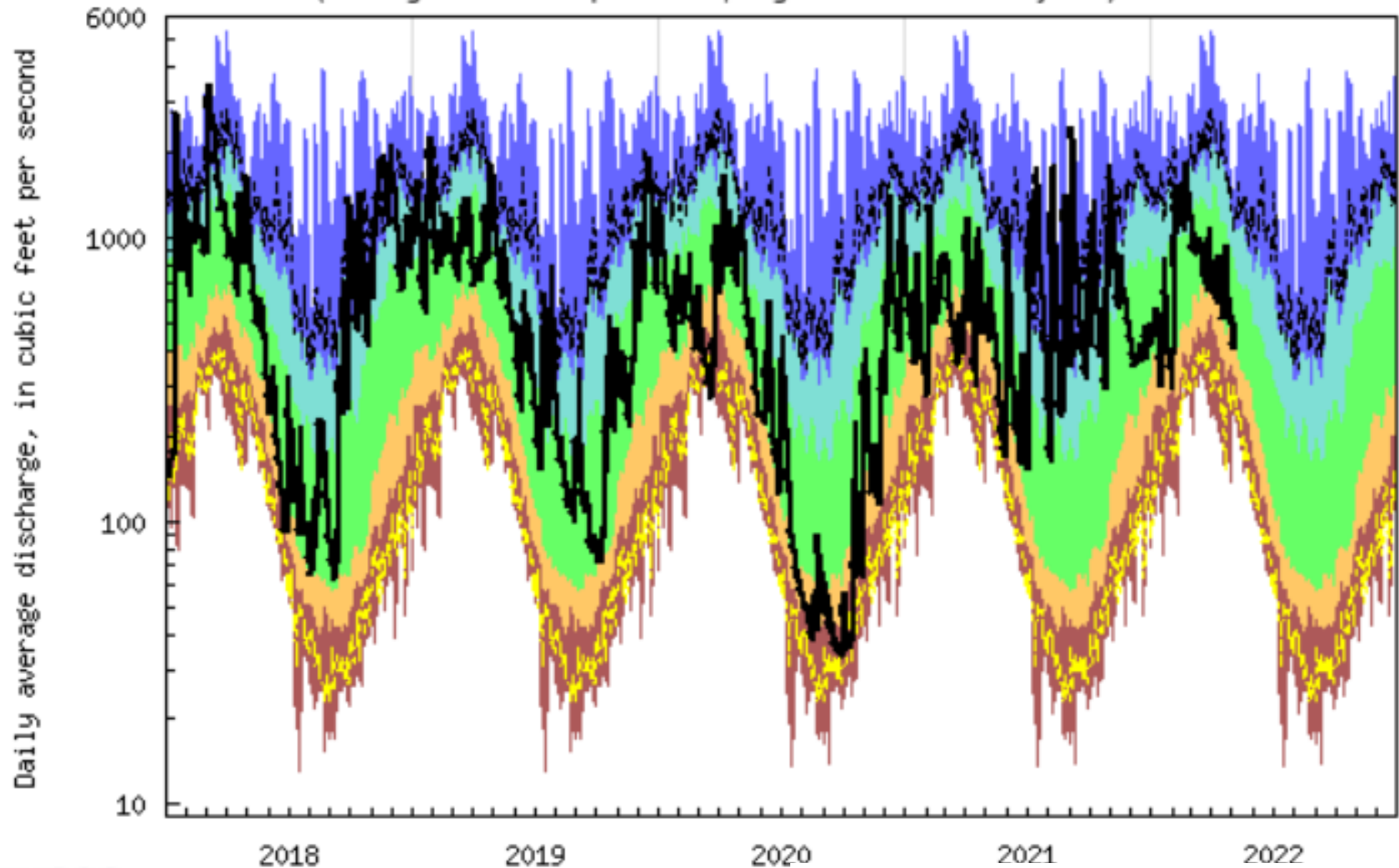


USGS WaterWatch

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. – Taunton River – Southeastern MA

USGS 01108000 TAUNTON RIVER NEAR BRIDGEWATER, MA
 (Drainage area: 261 square miles, length of record: 73 - 75 years)

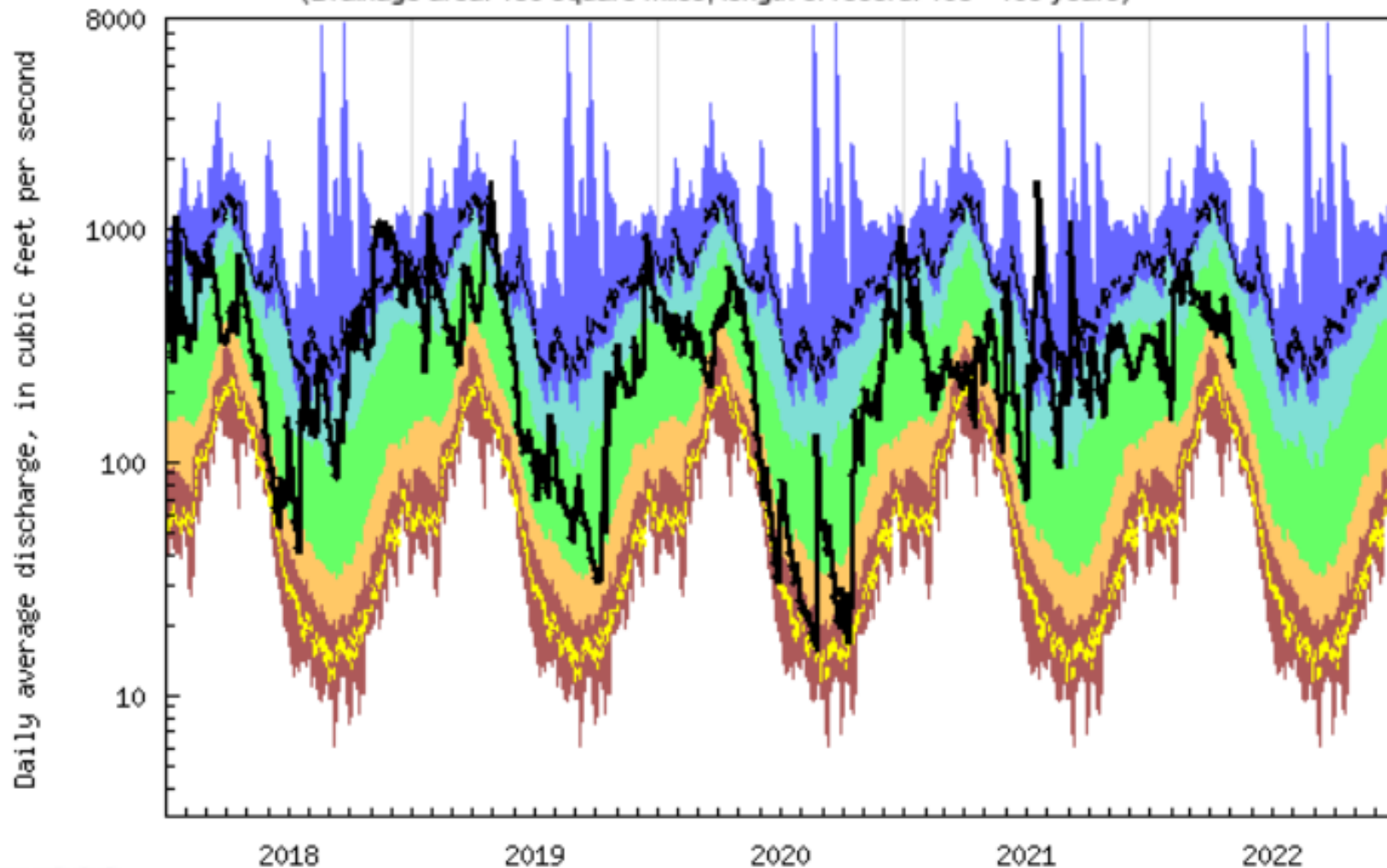


USGS WaterWatch

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. – Quaboag River – Central MA

USGS 01176000 QUABOAG RIVER AT WEST BRIMFIELD, MA
 (Drainage area: 150 square miles, length of record: 108 - 109 years)

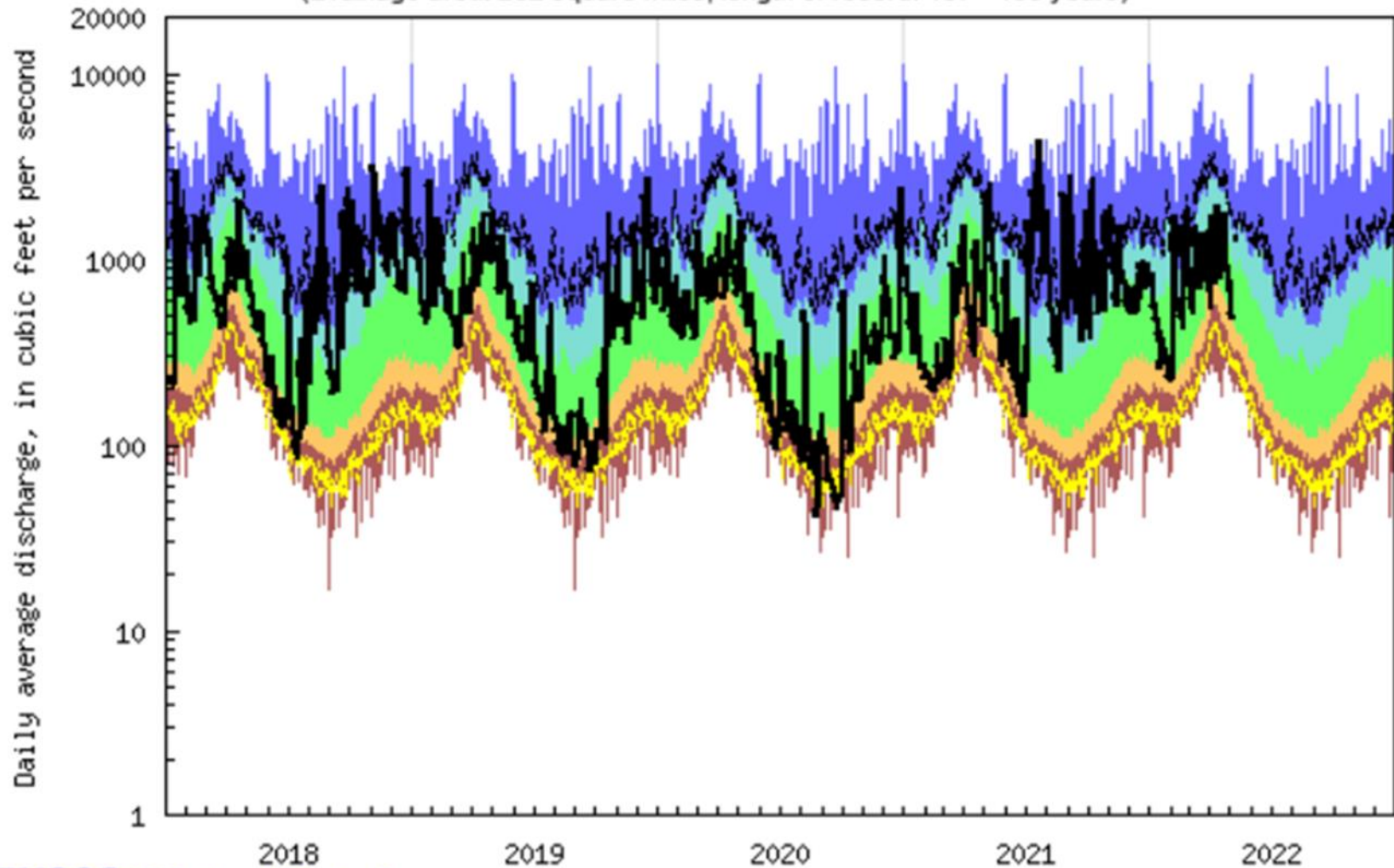


USGS WaterWatch

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. – Housatonic River – Western MA

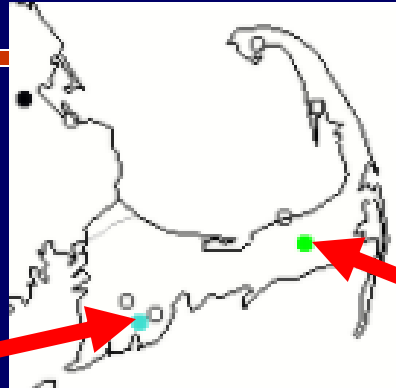
USGS 01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA
 (Drainage area: 282 square miles, length of record: 107 - 108 years)



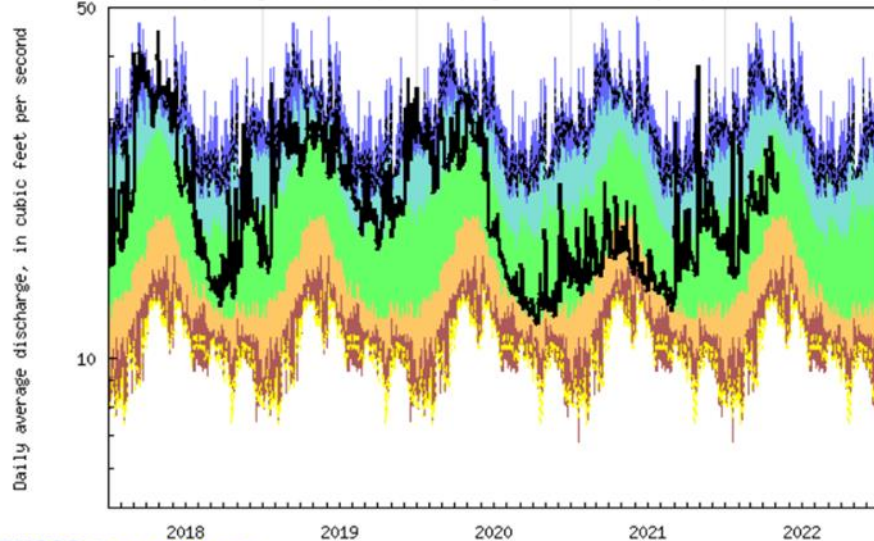
USGS WaterWatch

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

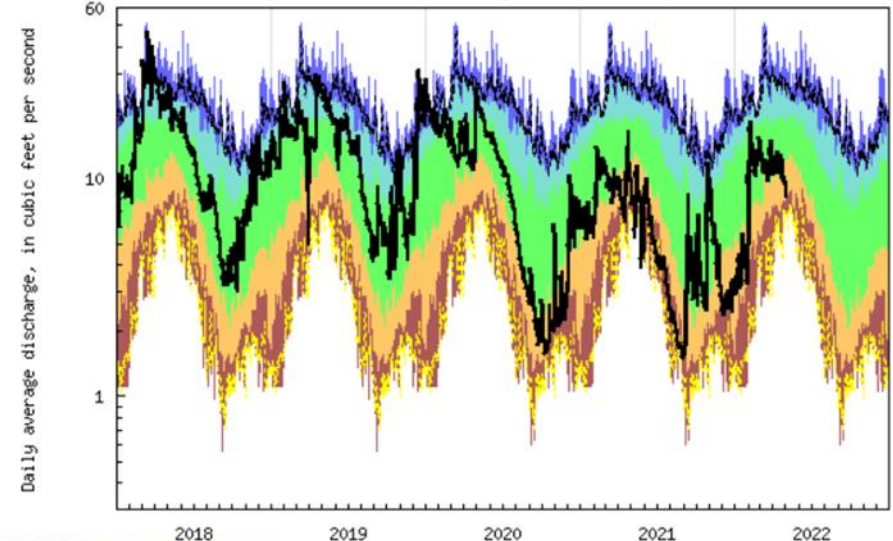
Daily Avg. Herring and Quashnet River – Cape Cod



USGS 011058837 QUASHNET RIVER AT WAQUOIT VILLAGE, MA
(Drainage area: 2.58 square miles, length of record: 32 - 33 years)



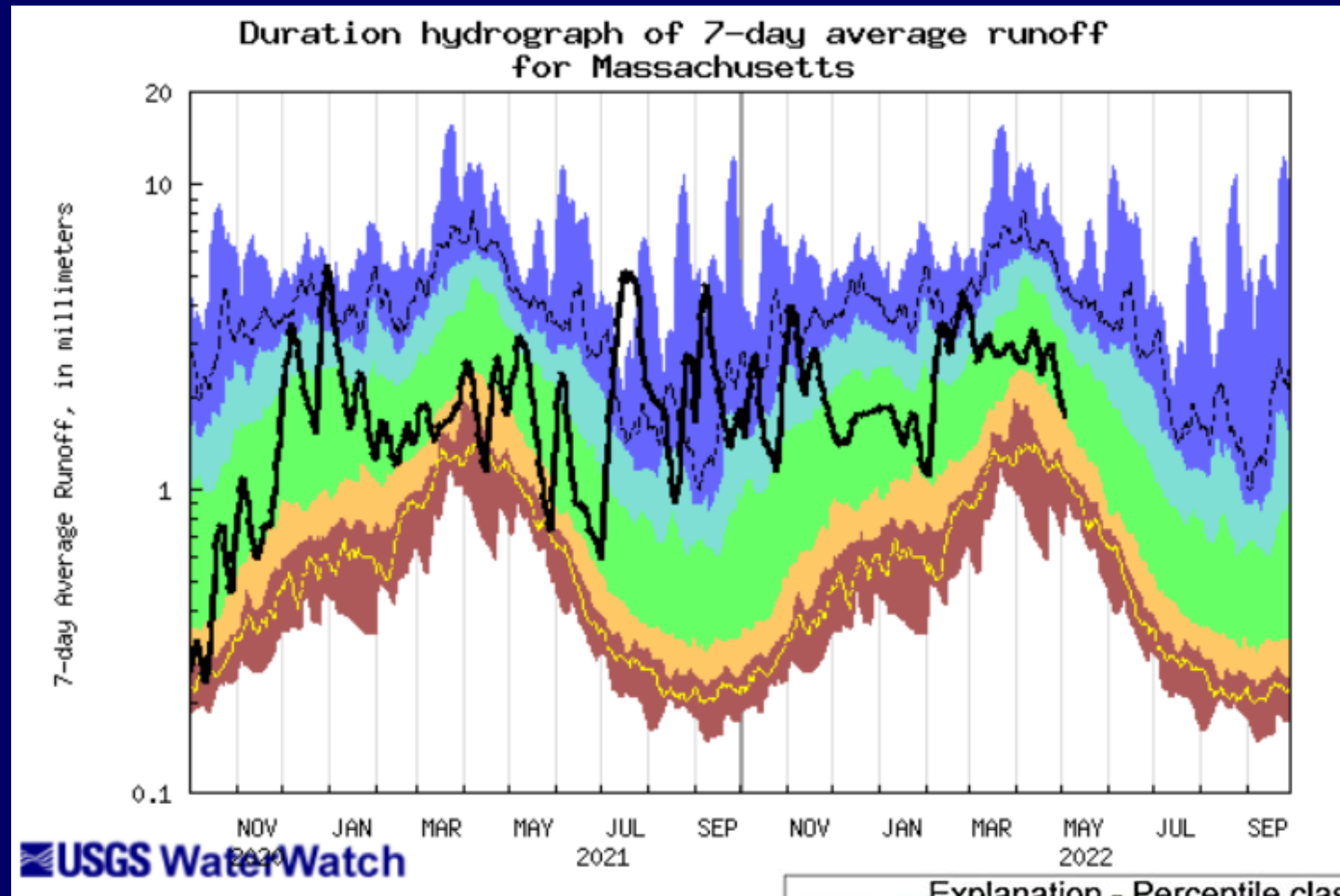
USGS 01105880 HERRING RIVER AT NORTH HARWICH, MA
(Drainage area: 9.40 square miles, length of record: 35 - 36 years)



Explanation - Percentile classes

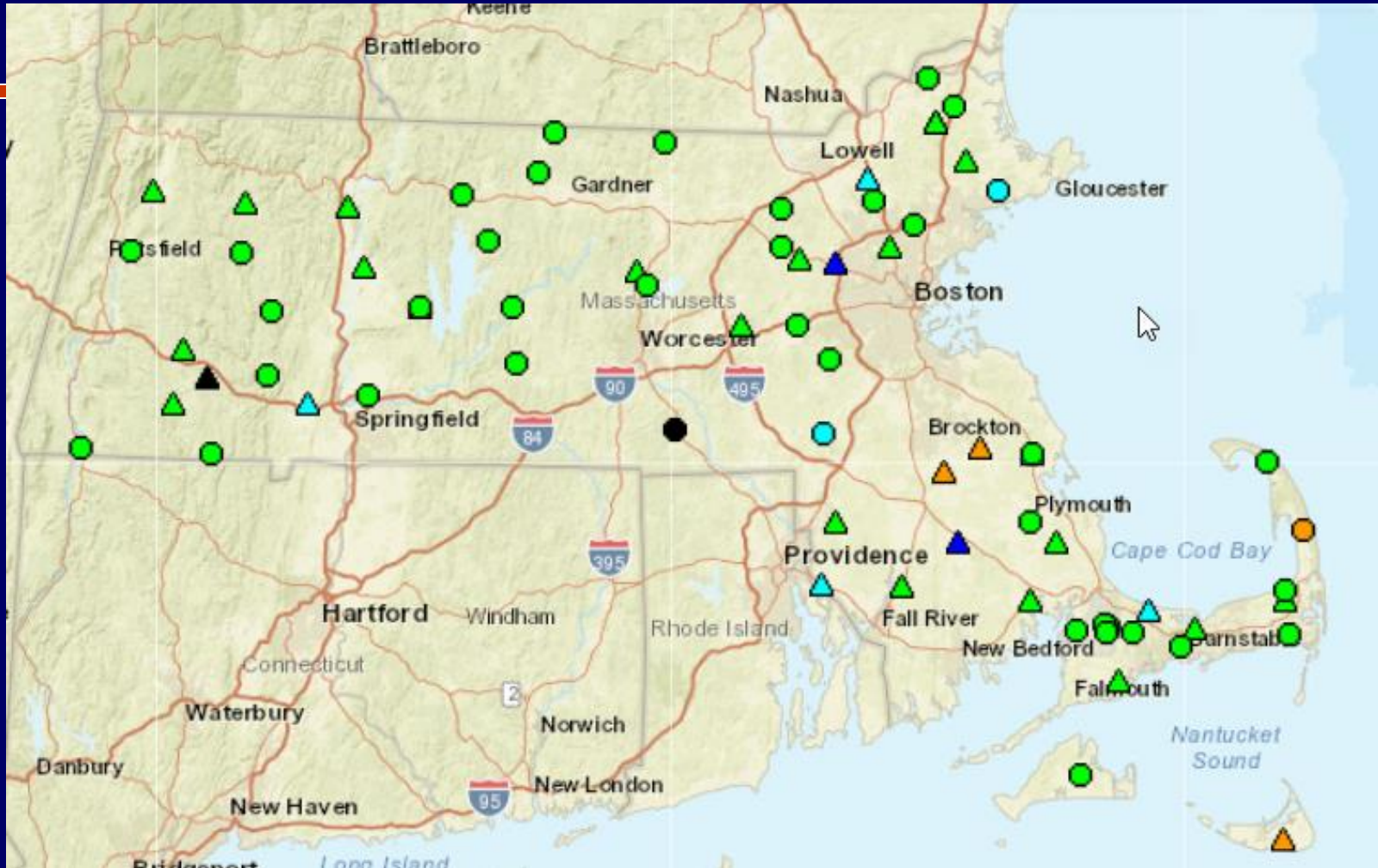
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile-highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

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



Explanation - Percentile classes						
Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

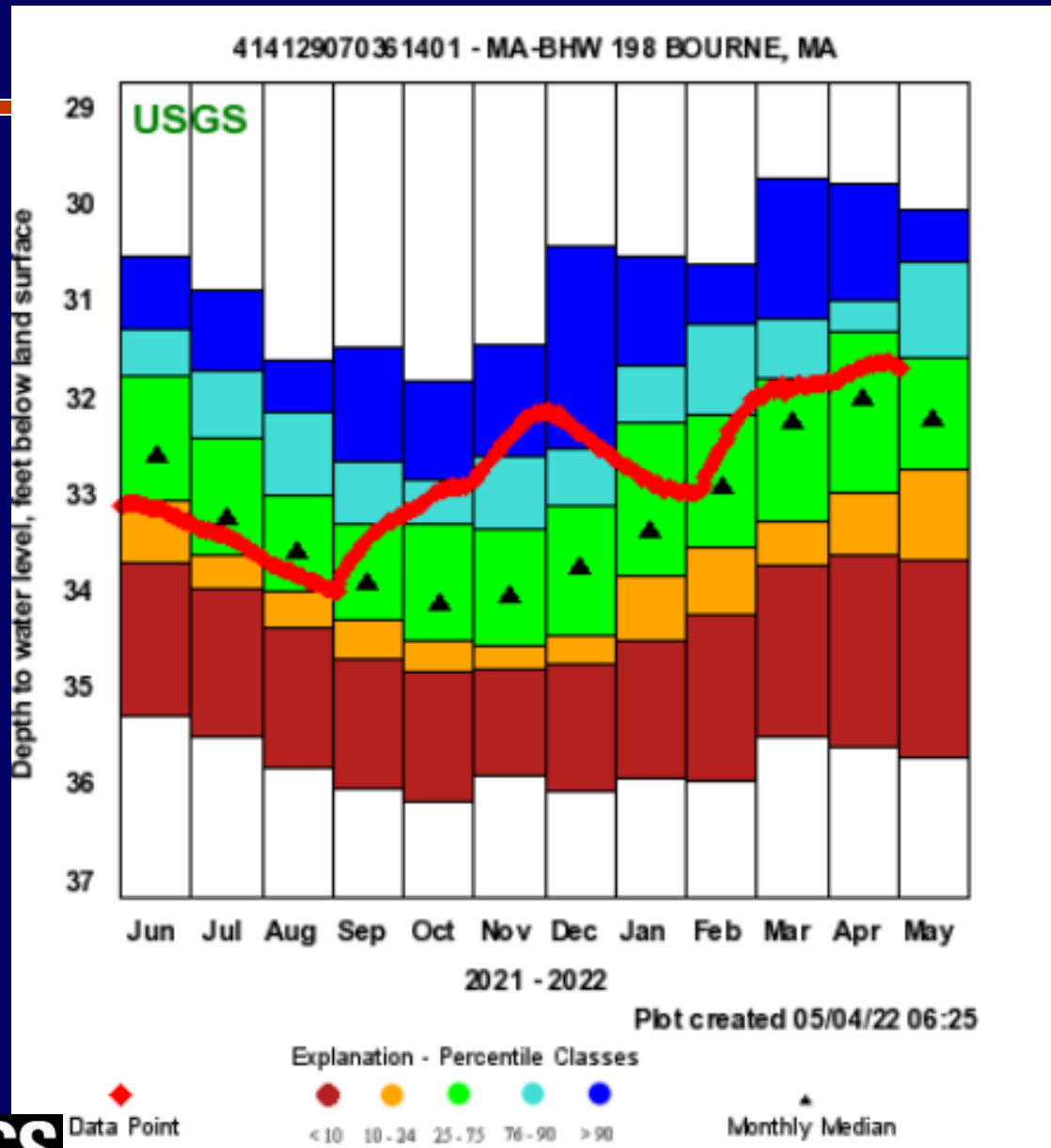
GW Conditions – Late April and Early May 2022



Explanation - Percentile classes (symbol color based on most recent measurement)

Low	<10	10-24	25-75	76-90	>90	High	Not Ranked
	Much Below Normal	Below Normal	Normal	Above Normal	Much Above Normal		

BHW 198, Bourne, MA

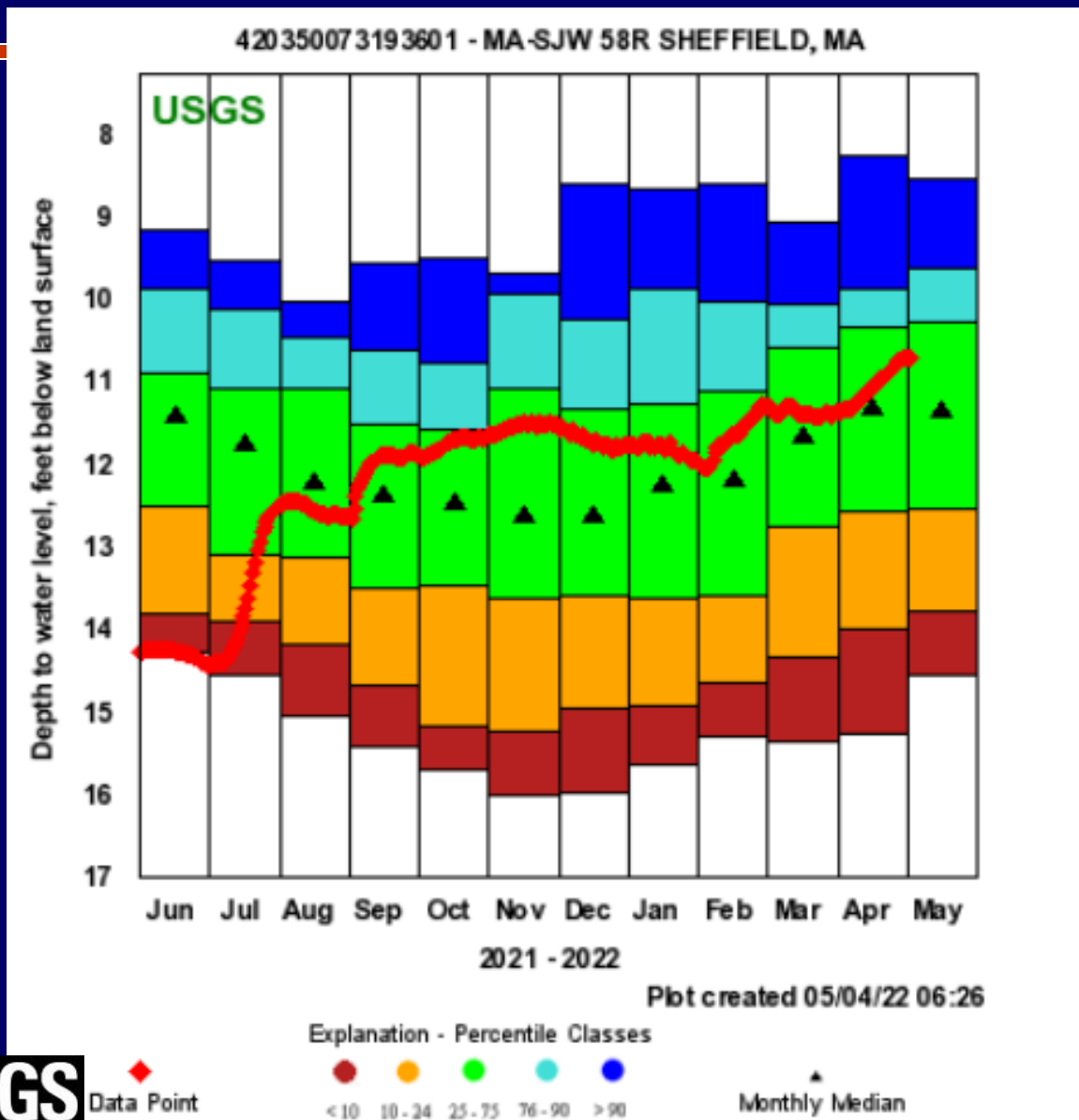


Period of Record

All data
1962 – present

Continuous data
May 2012- present

SJW 58R, Sheffield, MA

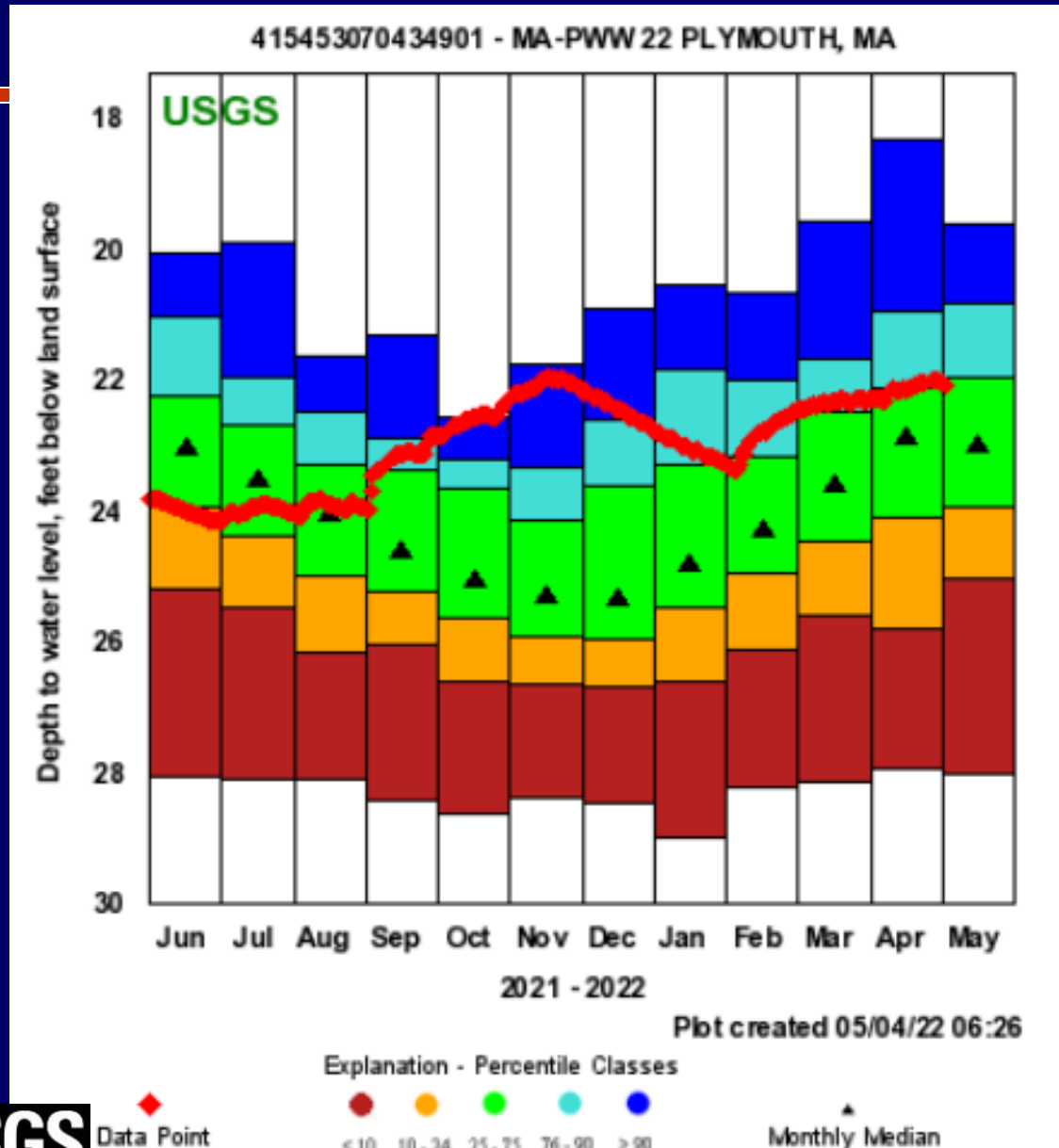


Period of Record

All data
1987 – present

Continuous data
December 2019 - present

PWW 22, Plymouth, MA



Period of Record

All data
1956 – present

Continuous data
December 2014 - present

Questions

