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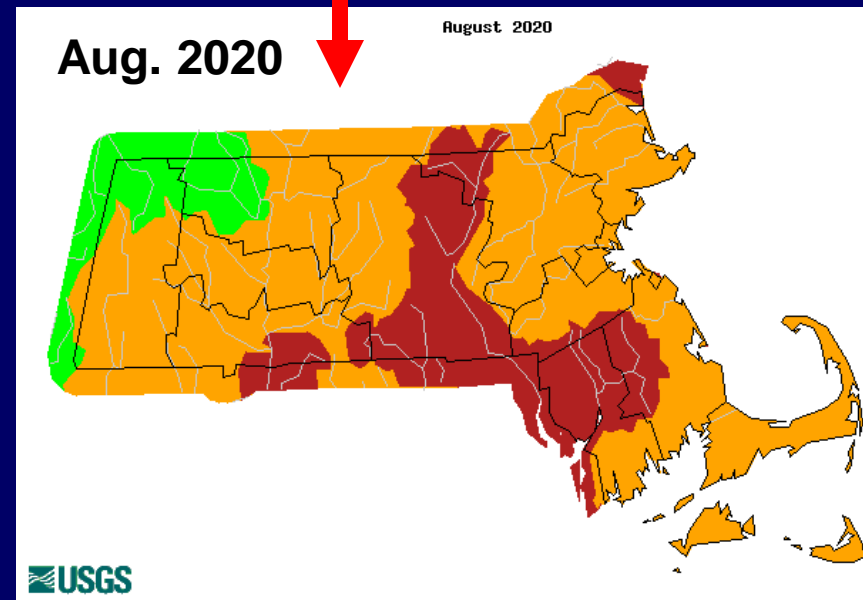
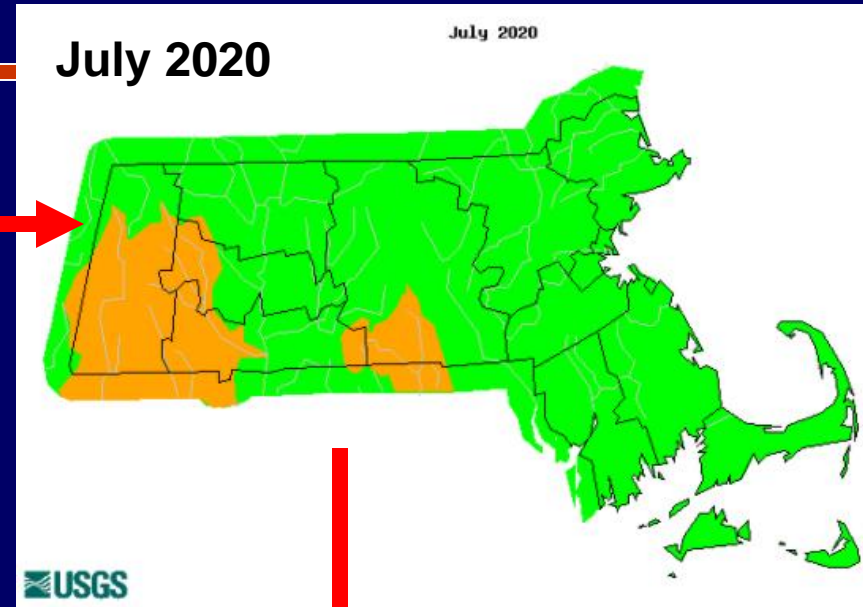
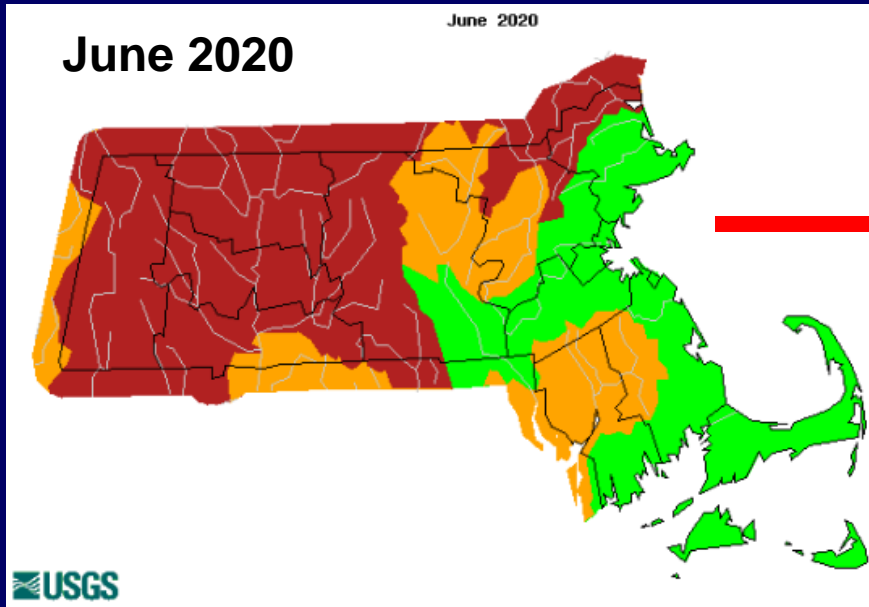
# Streamflow and Groundwater Conditions in Massachusetts

Dec. 7, 2020

Gardner Bent  
U.S. Geological Survey  
New England Water Science Center



# Average Streamflow Conditions – June-Aug. 2020



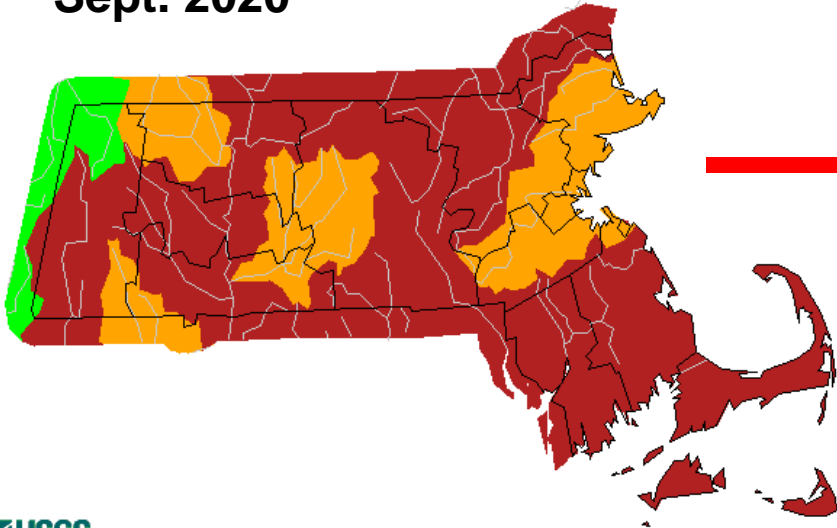
Explanation - Percentile classes

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

# Average Streamflow Conditions – Sept. - Nov. 2020

Sept. 2020

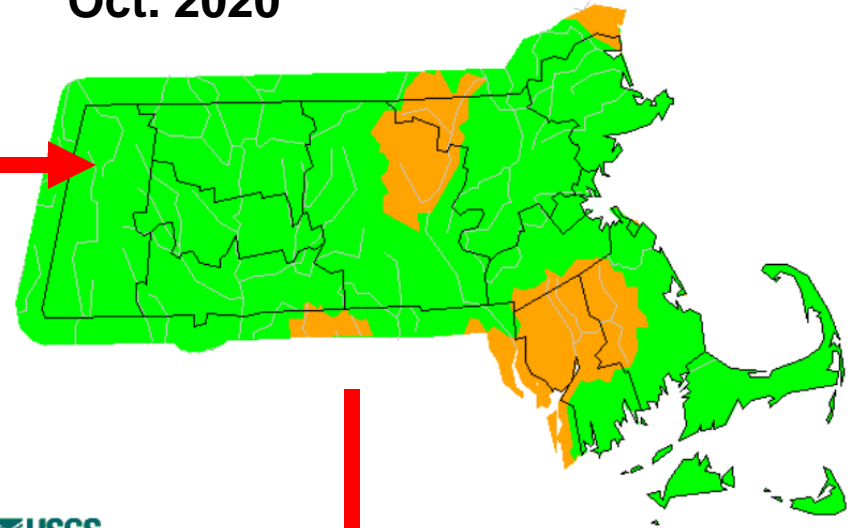
September 2020



USGS

Oct. 2020

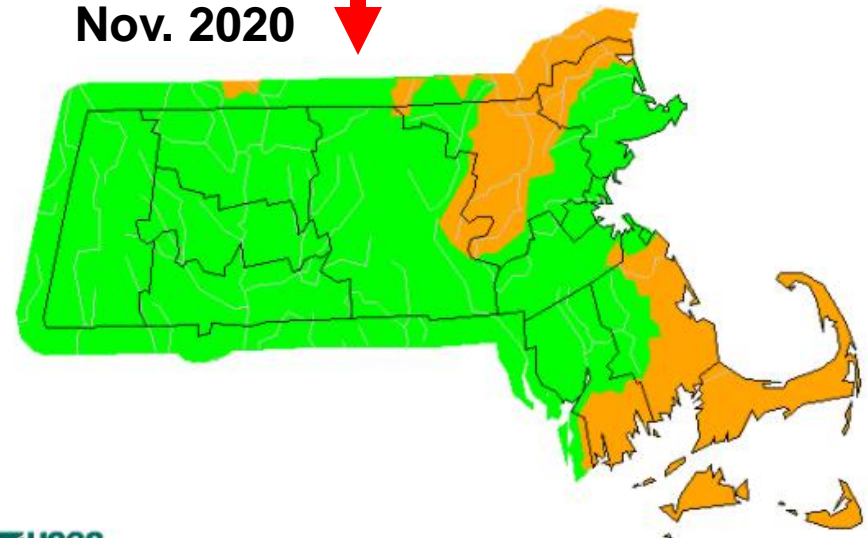
October 2020



USGS

Nov. 2020

November 2020

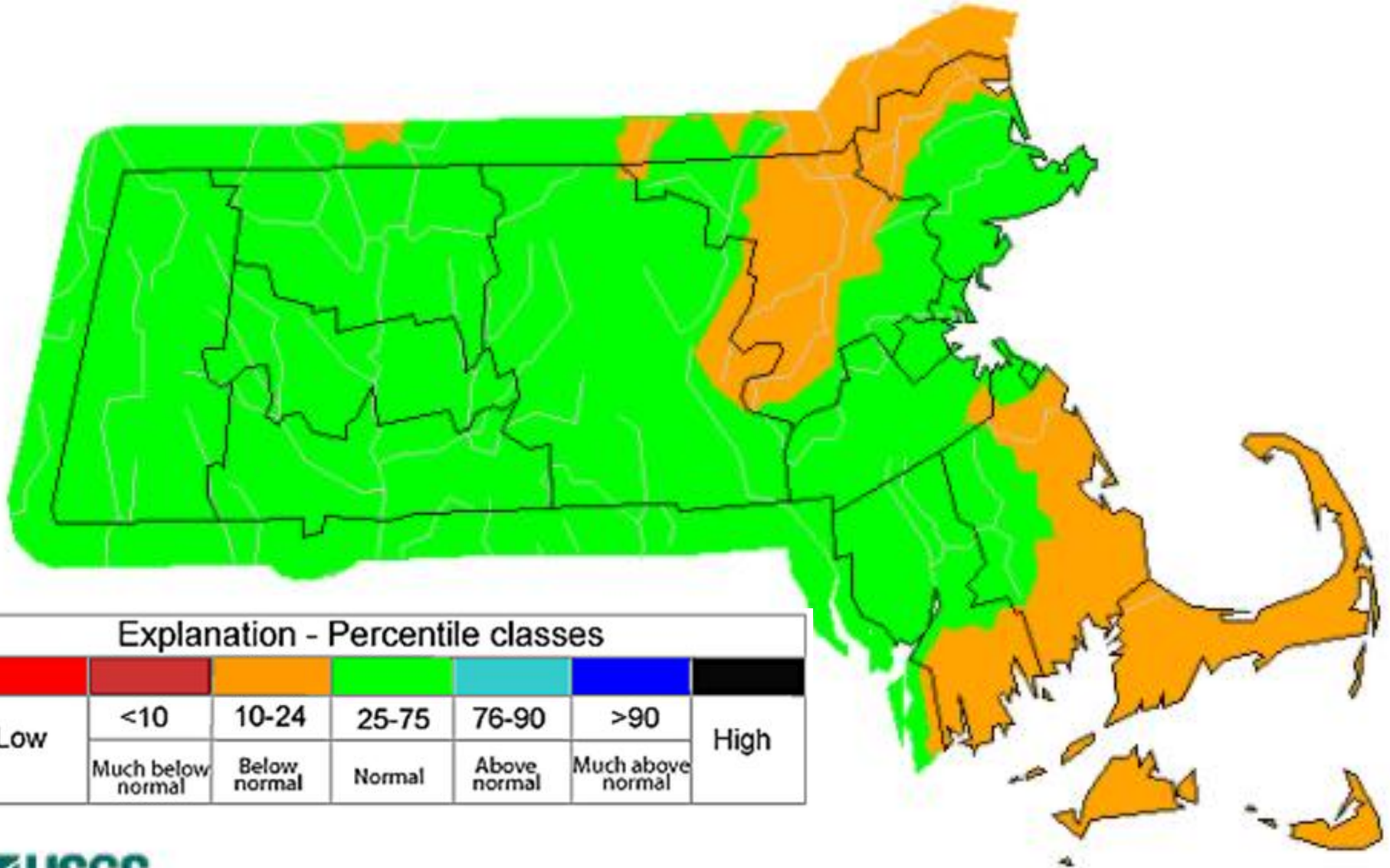


USGS

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 – Nov. 2020

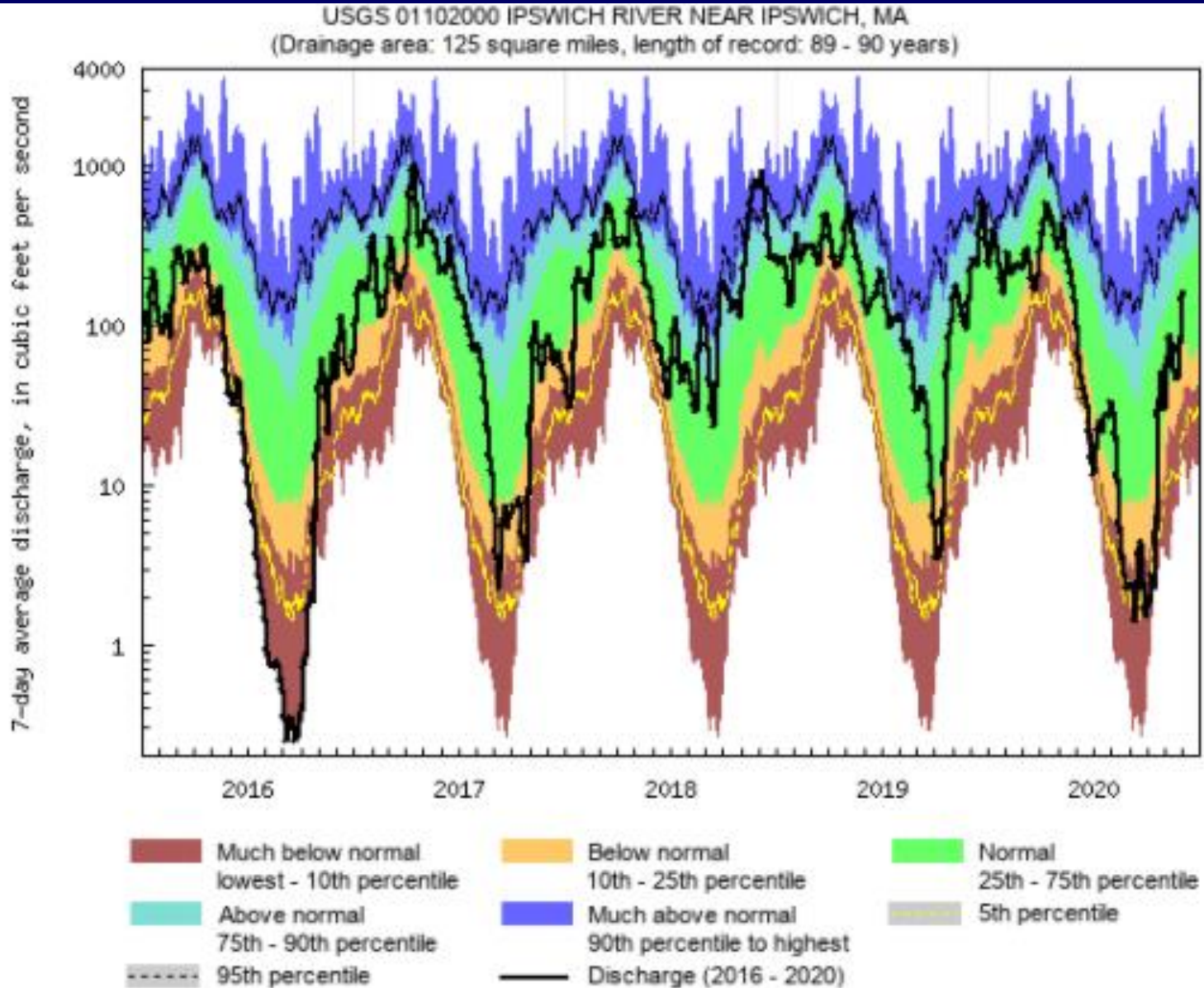
November 2020



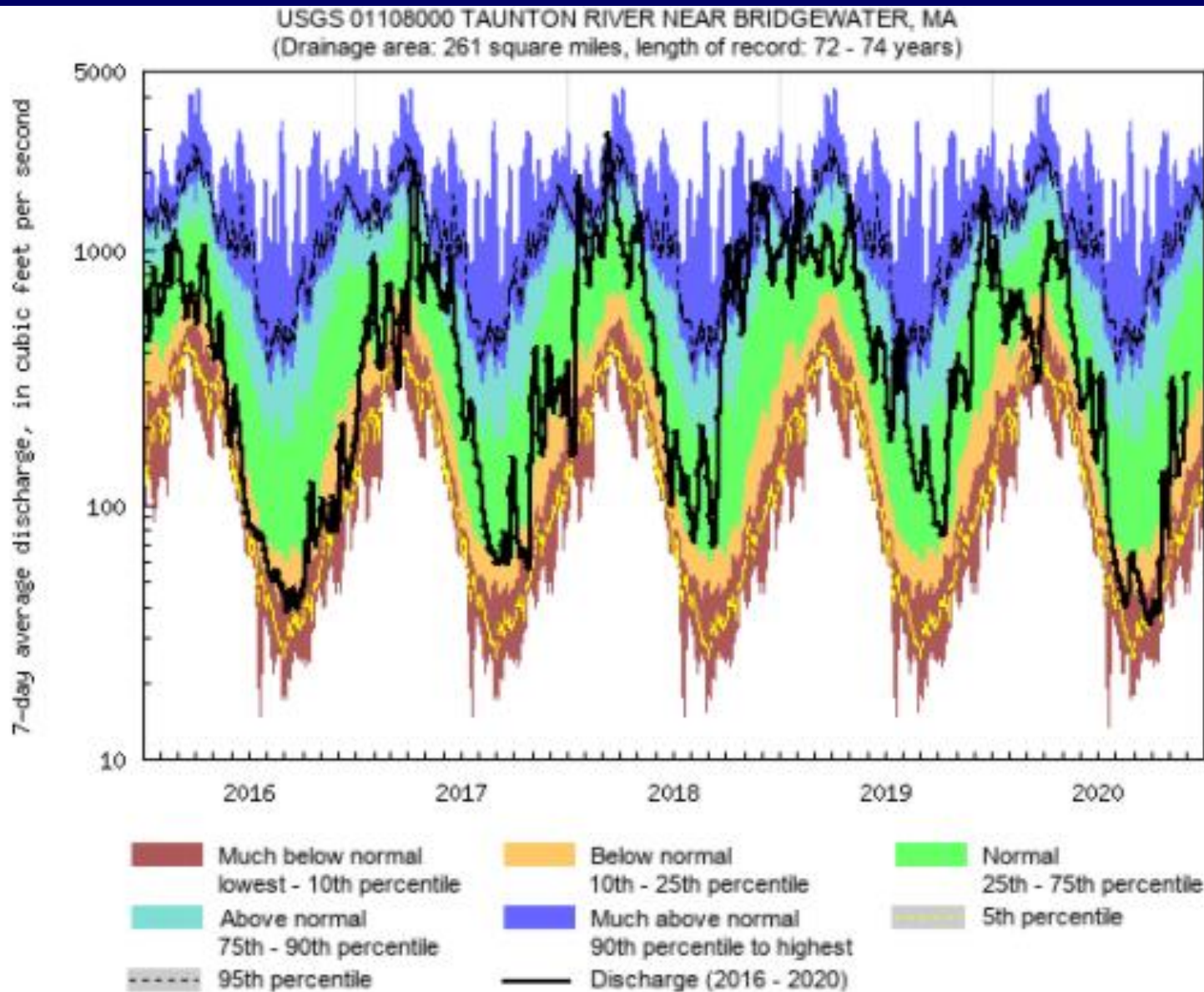
Explanation - Percentile classes

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

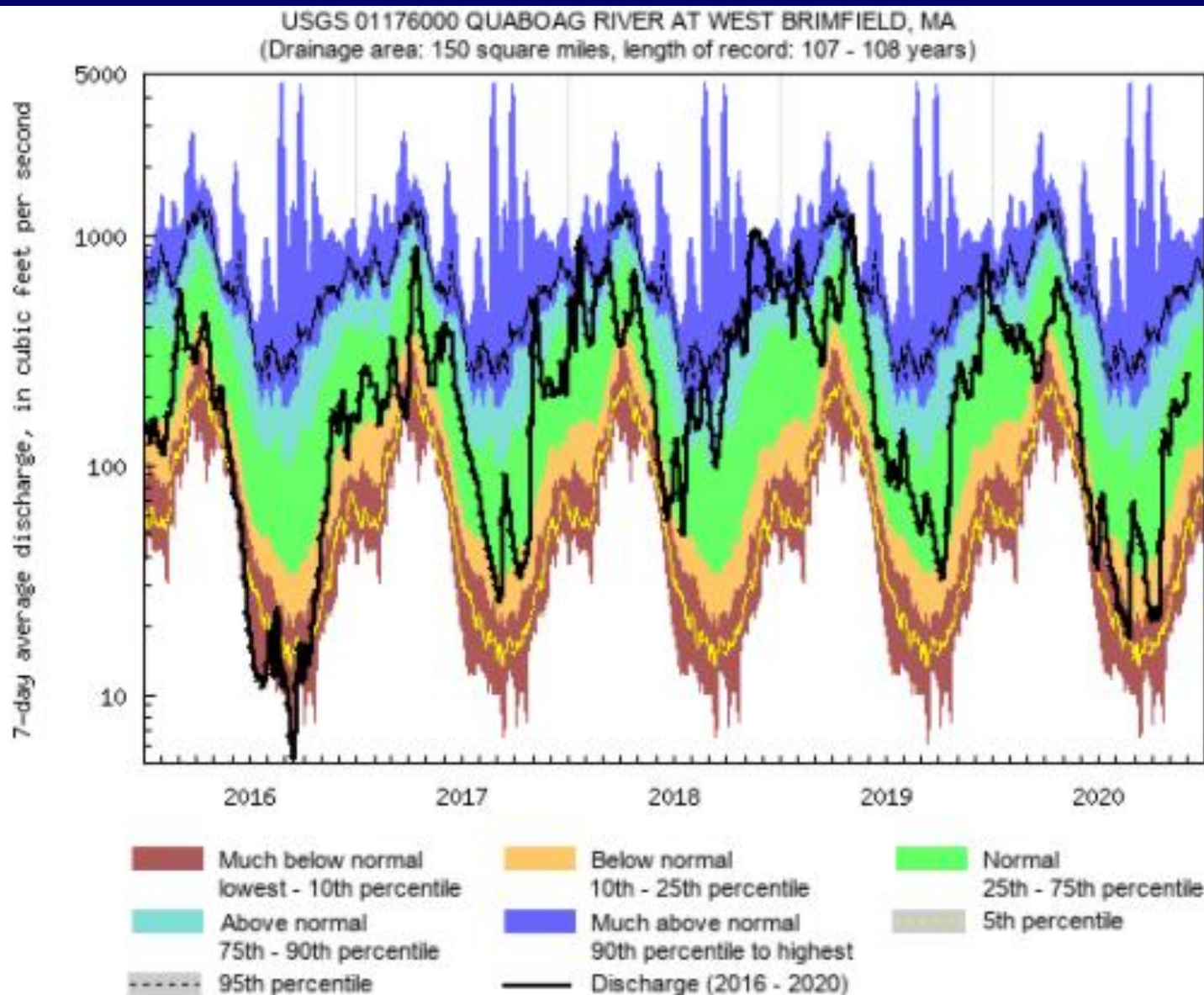
# 7-Day Avg. – Ipswich River – northeastern MA



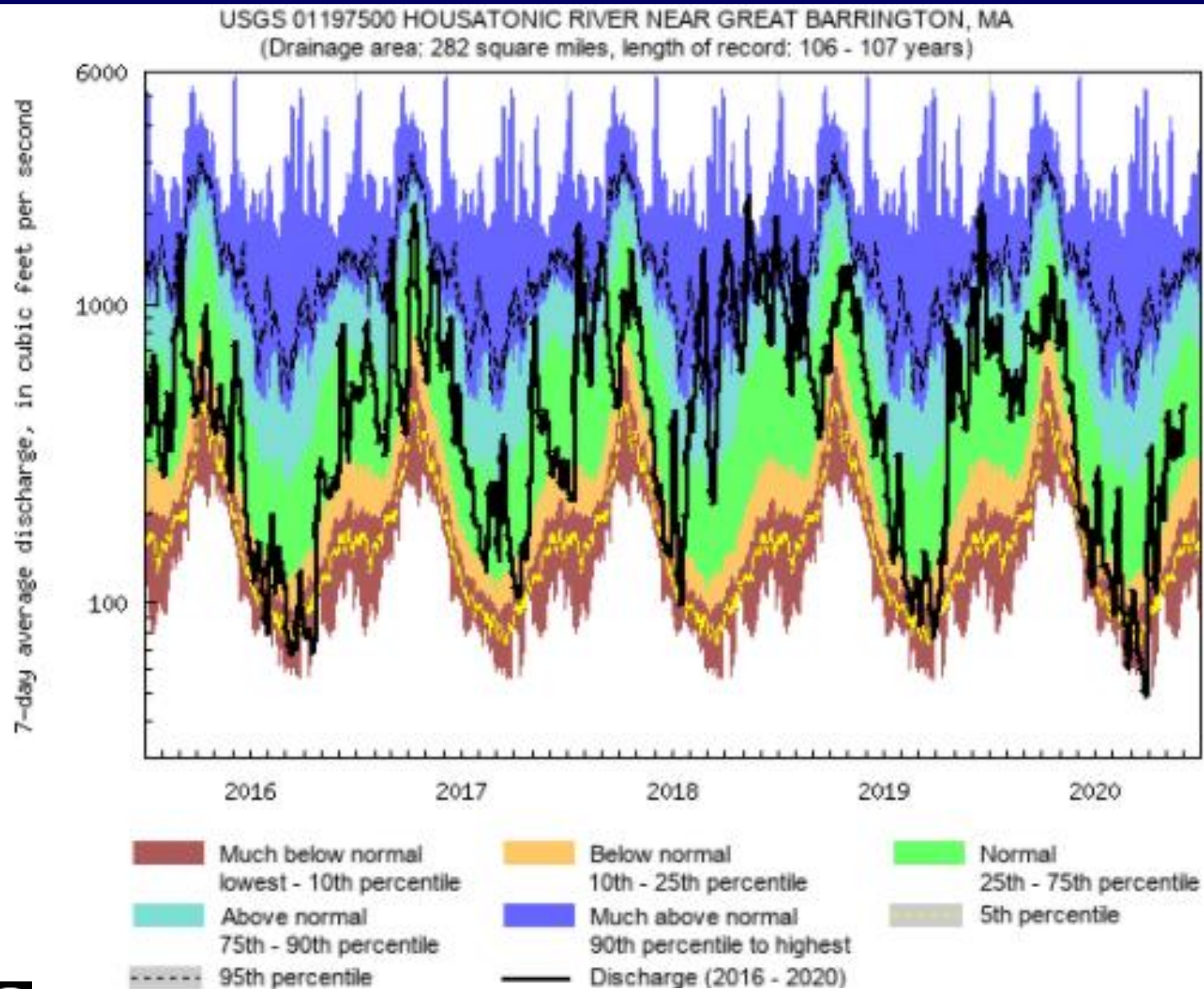
# 7-Day Avg. – Taunton River – southeastern MA



# 7-Day Avg. – Quaboag River – central MA

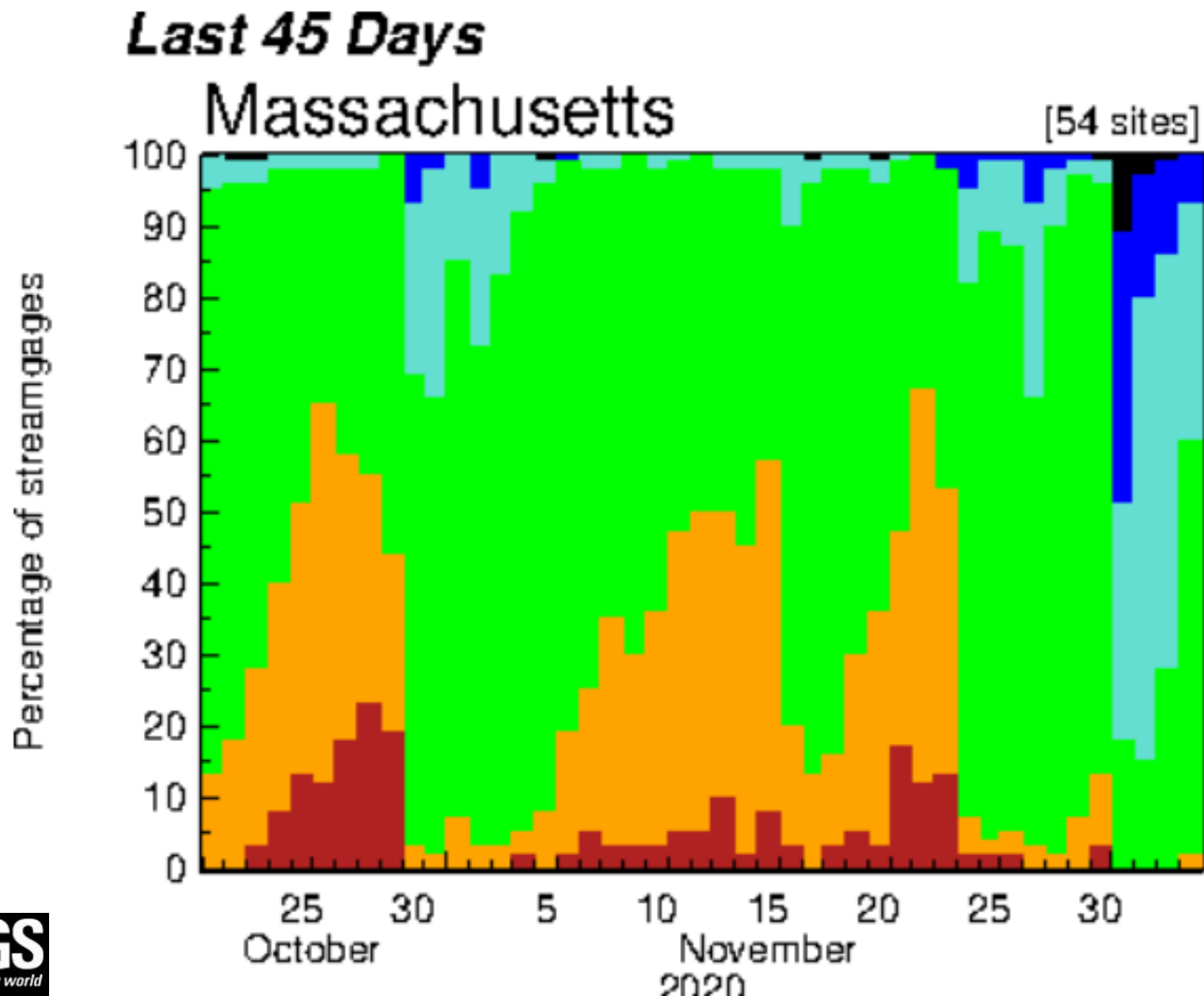


# 7-Day Avg. – Housatonic River – western MA



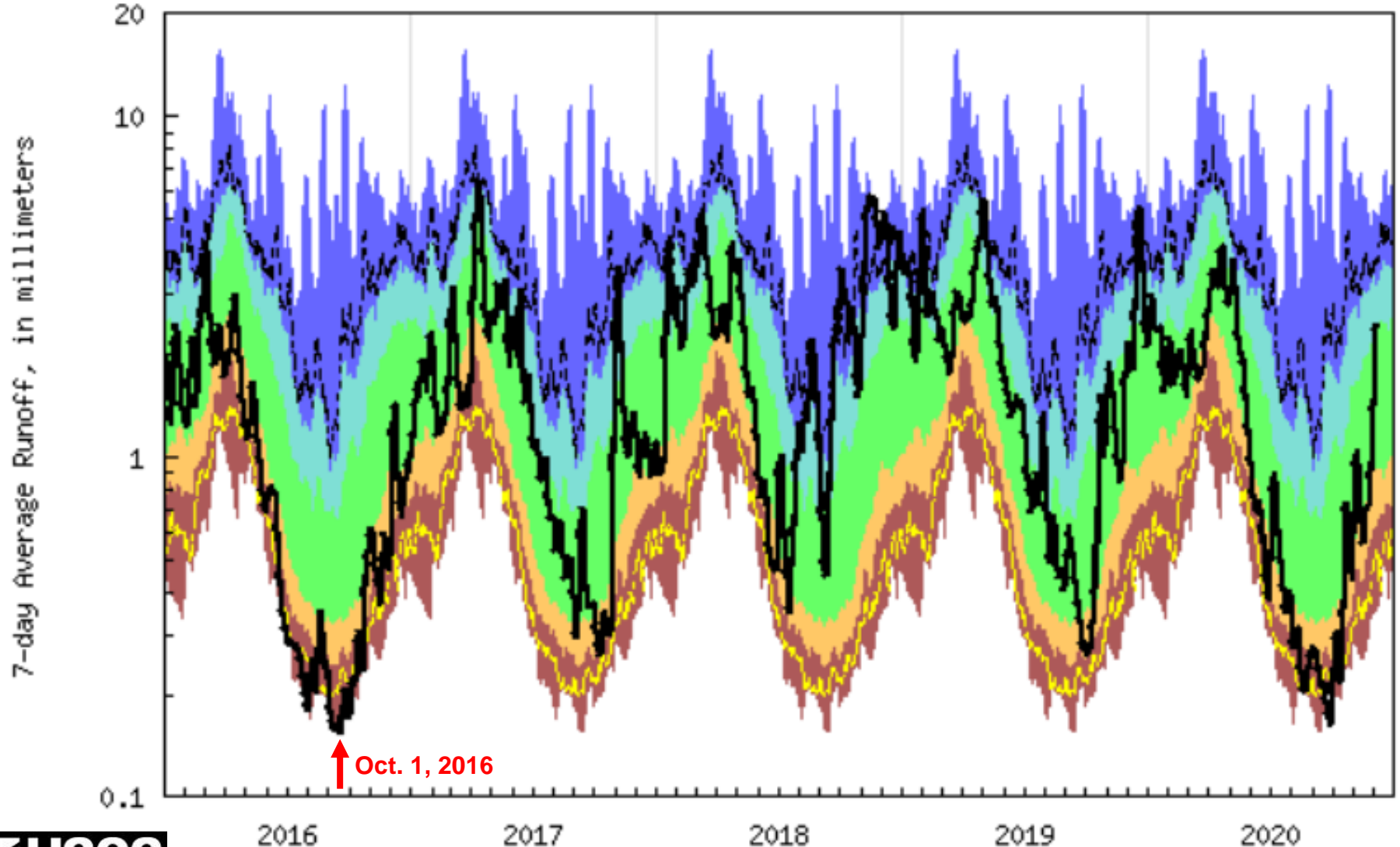


# Average runoff – Massachusetts – last 45 days



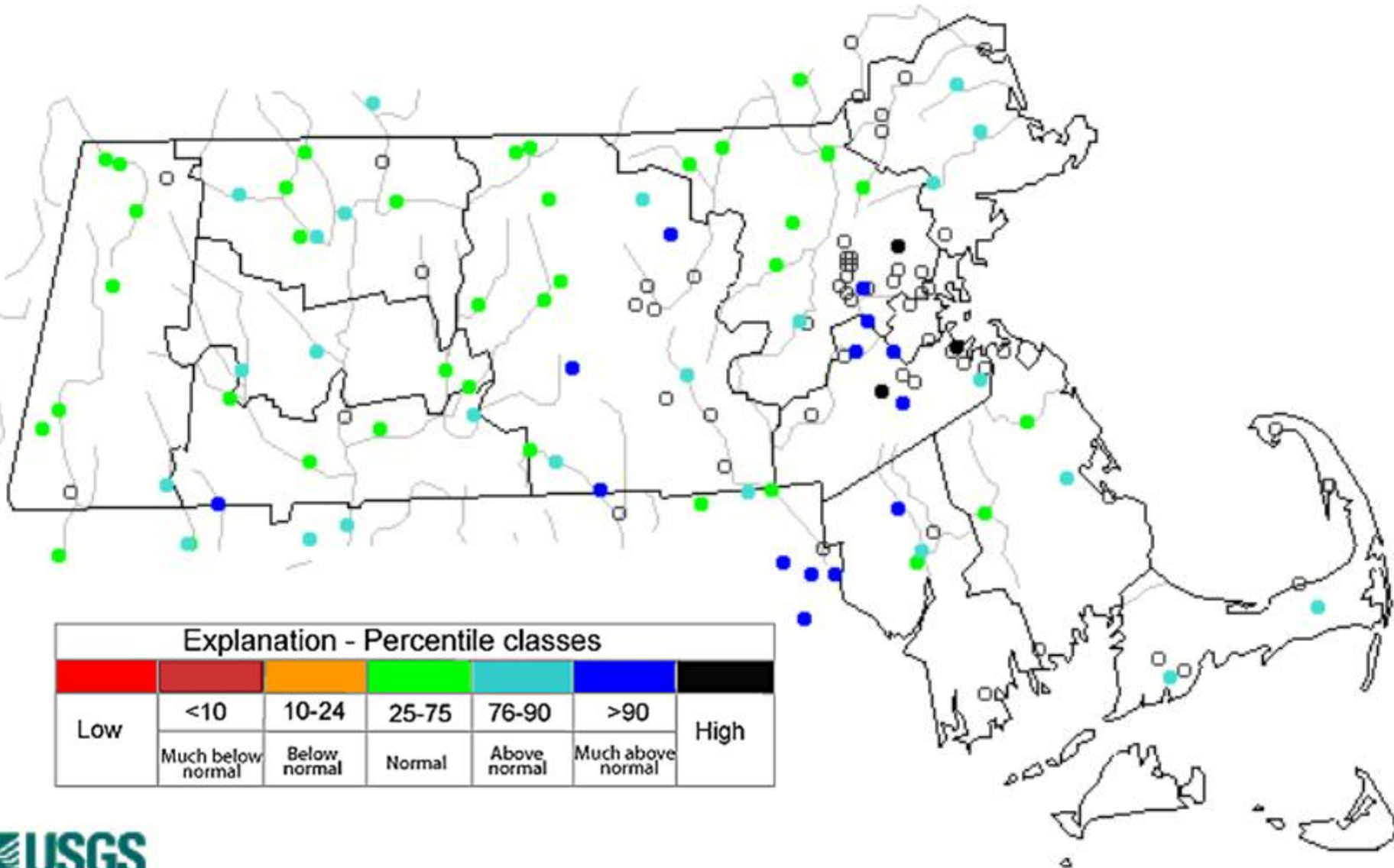
# Avg. runoff – Massachusetts – last 5 years

Duration hydrograph of 7-day average runoff for Massachusetts

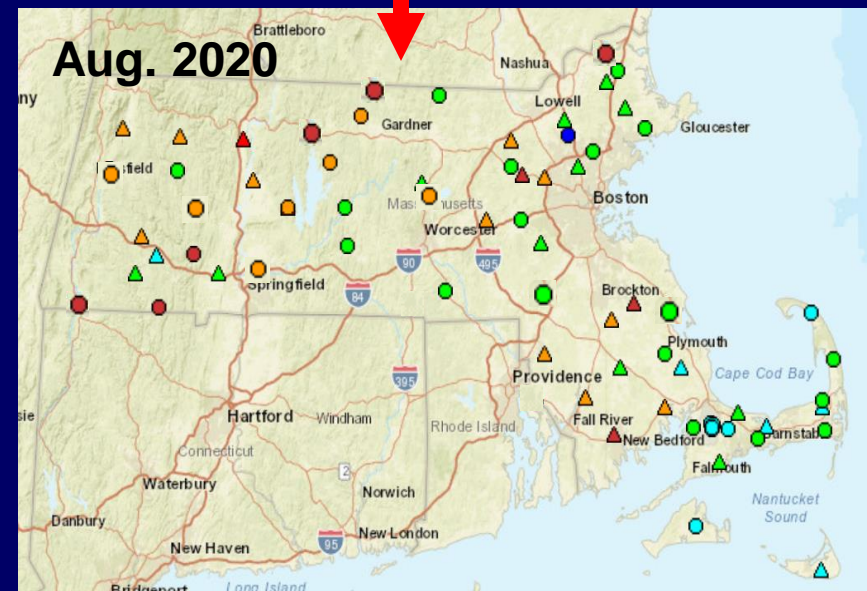


# Streamflow Conditions – Dec. 5, 2020

Saturday, December 05, 2020 12:30ET



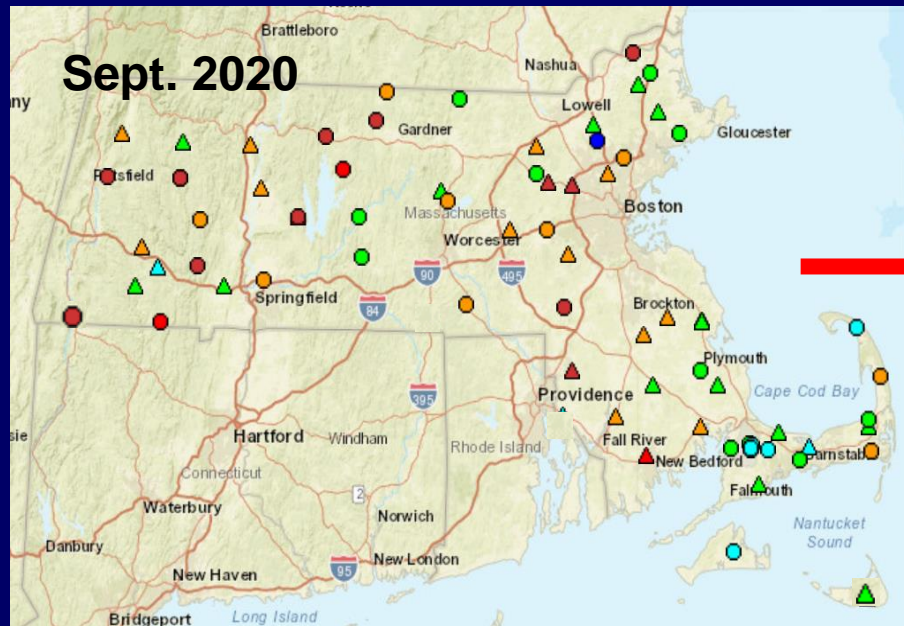
# GW Conditions Late June – Late Aug. 2020



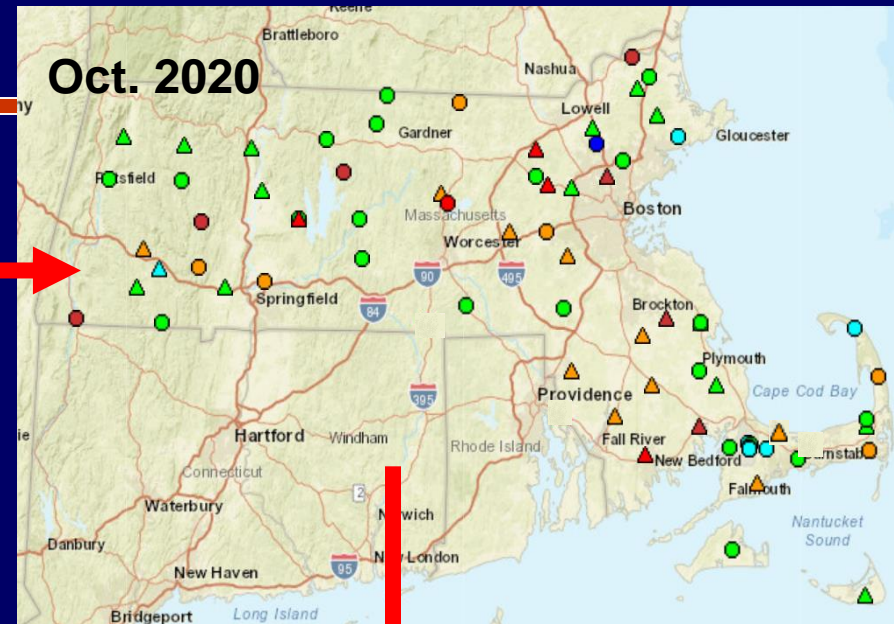
Explanation - Percentile classes							
<span style="color: red;">●</span>	<span style="color: red;">●</span>	<span style="color: orange;">●</span>	<span style="color: green;">●</span>	<span style="color: cyan;">●</span>	<span style="color: blue;">●</span>	<span style="color: black;">●</span>	<span style="color: gray;">●</span>
New Low	<10 Much Below Normal	10-24 Below Normal	25-75 Normal	76-90 Above Normal	>90 Much Above Normal	New High	Not Ranked
						○ Real Time	□ Continuous
						△ Periodic Measurements	

# GW Conditions Late Sept. – Late Nov. 2020

Sept. 2020



Oct. 2020



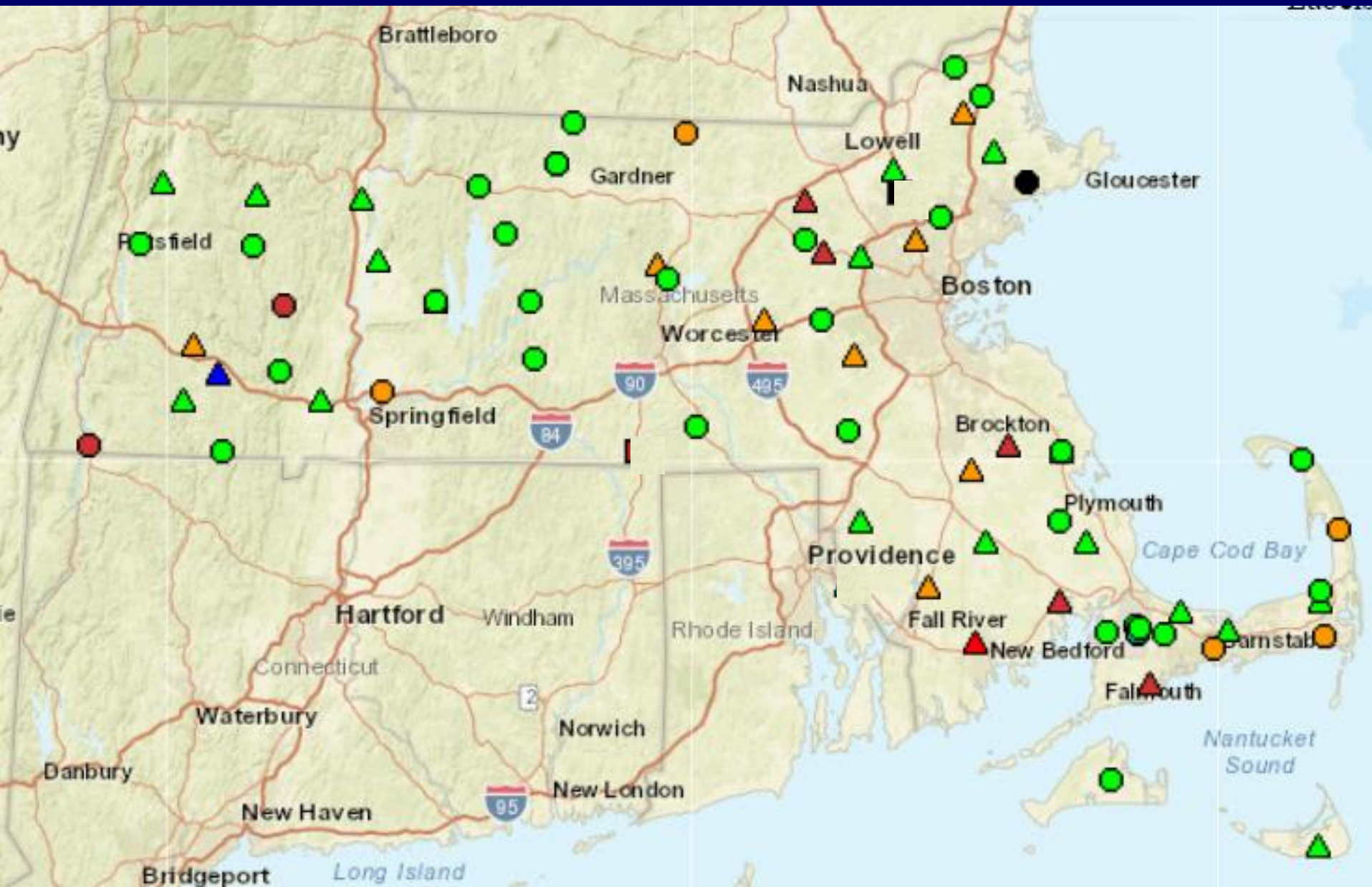
Nov. 2020

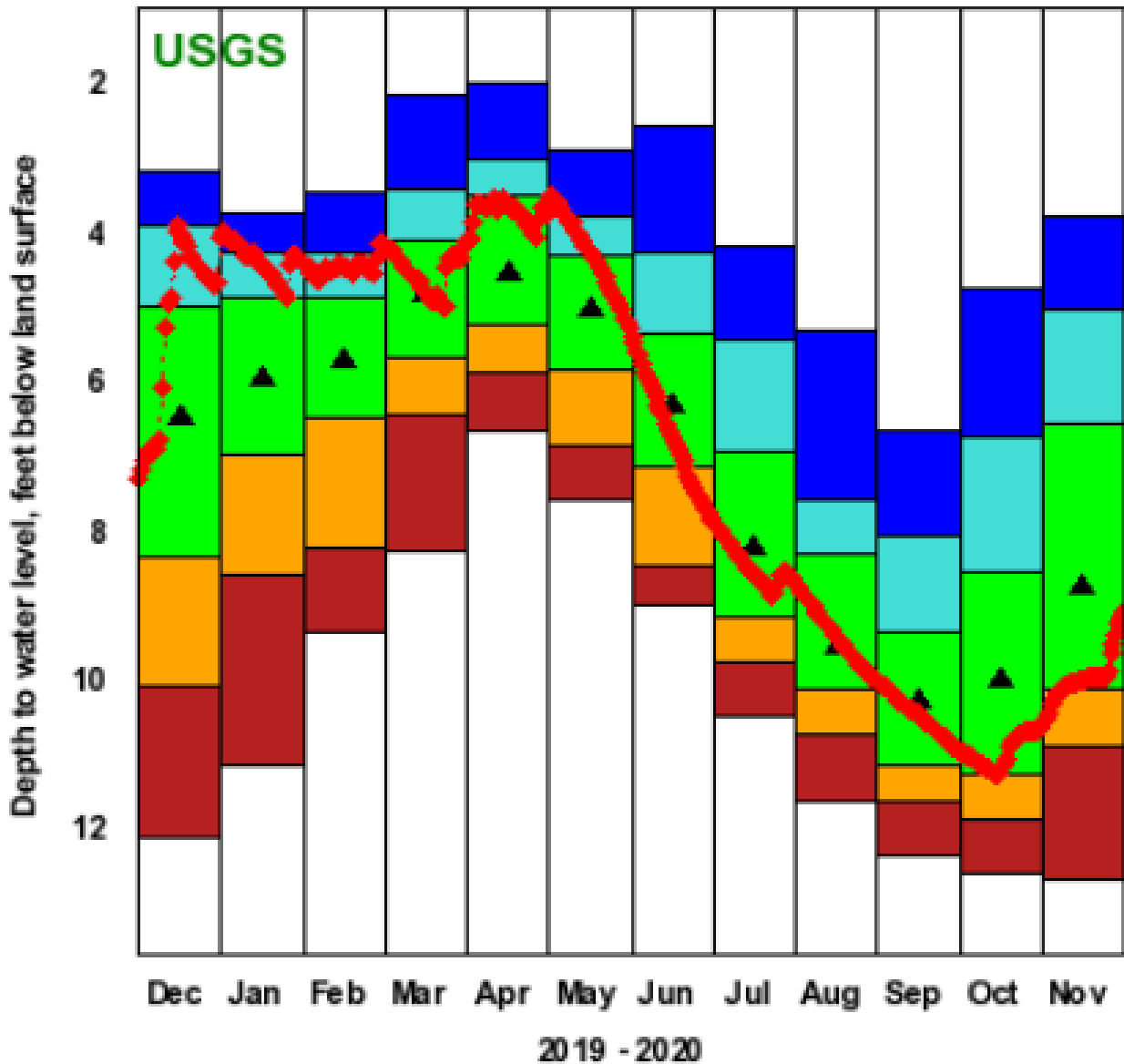


Explanation - Percentile classes

New Low	<10	10-24	25-75	76-90	>90	New High	Not Ranked	Real Time	Continuous
	Much Below Normal	Below Normal	Normal	Above Normal	Much Above Normal			Periodic Measurements	

# GW Conditions Late November 2020





Plot created 11/30/20 19:18

Explanation - Percentile Classes

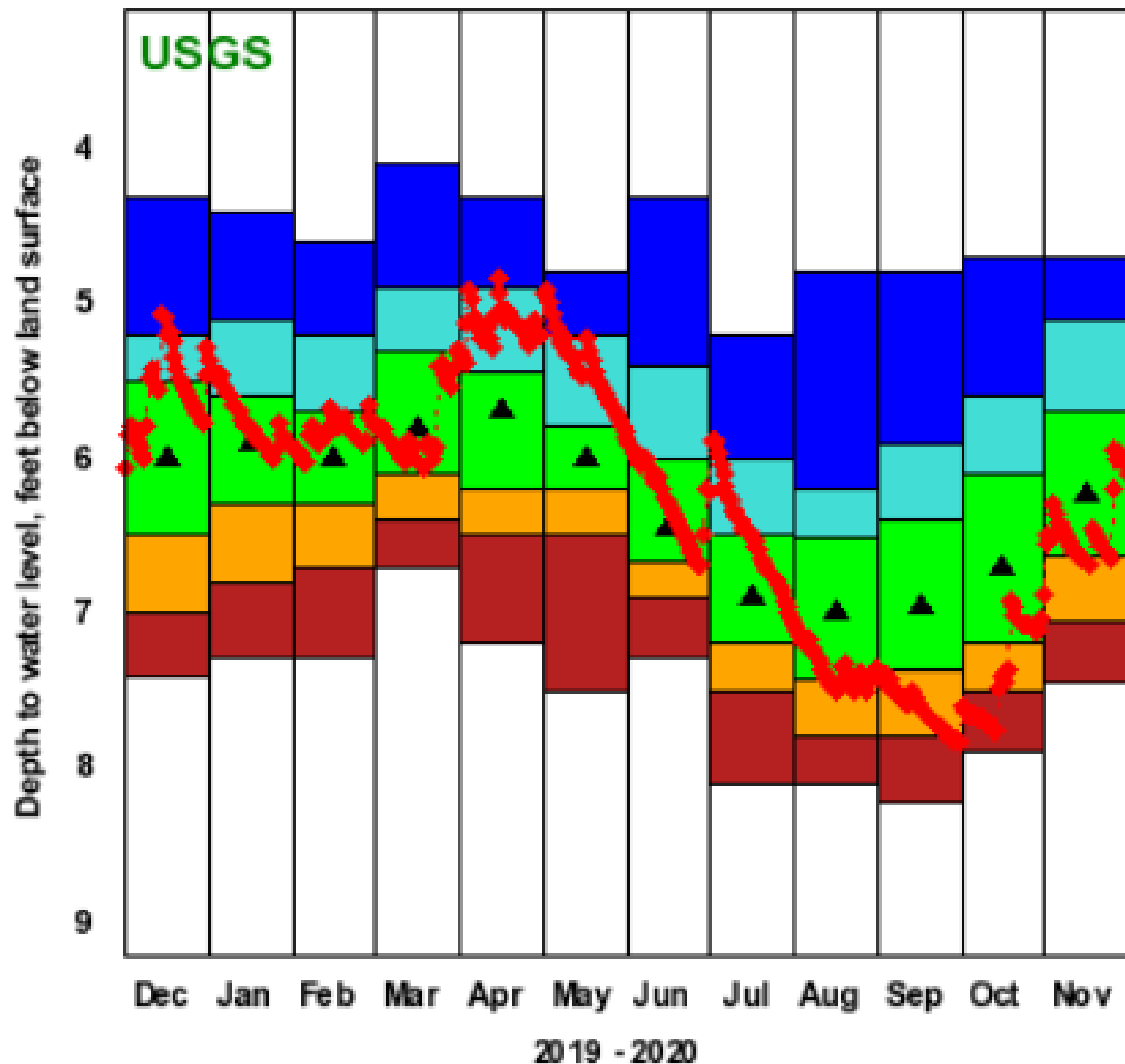
- < 10
- 10 - 24
- 25 - 75
- 76 - 90
- > 90
- ▲ Monthly Median

## Period of Record

All data  
July 1959 – present

Continuous data  
Oct. 1984 - present





Plot created 11/30/20 19:18

Explanation - Percentile Classes



## Period of Record

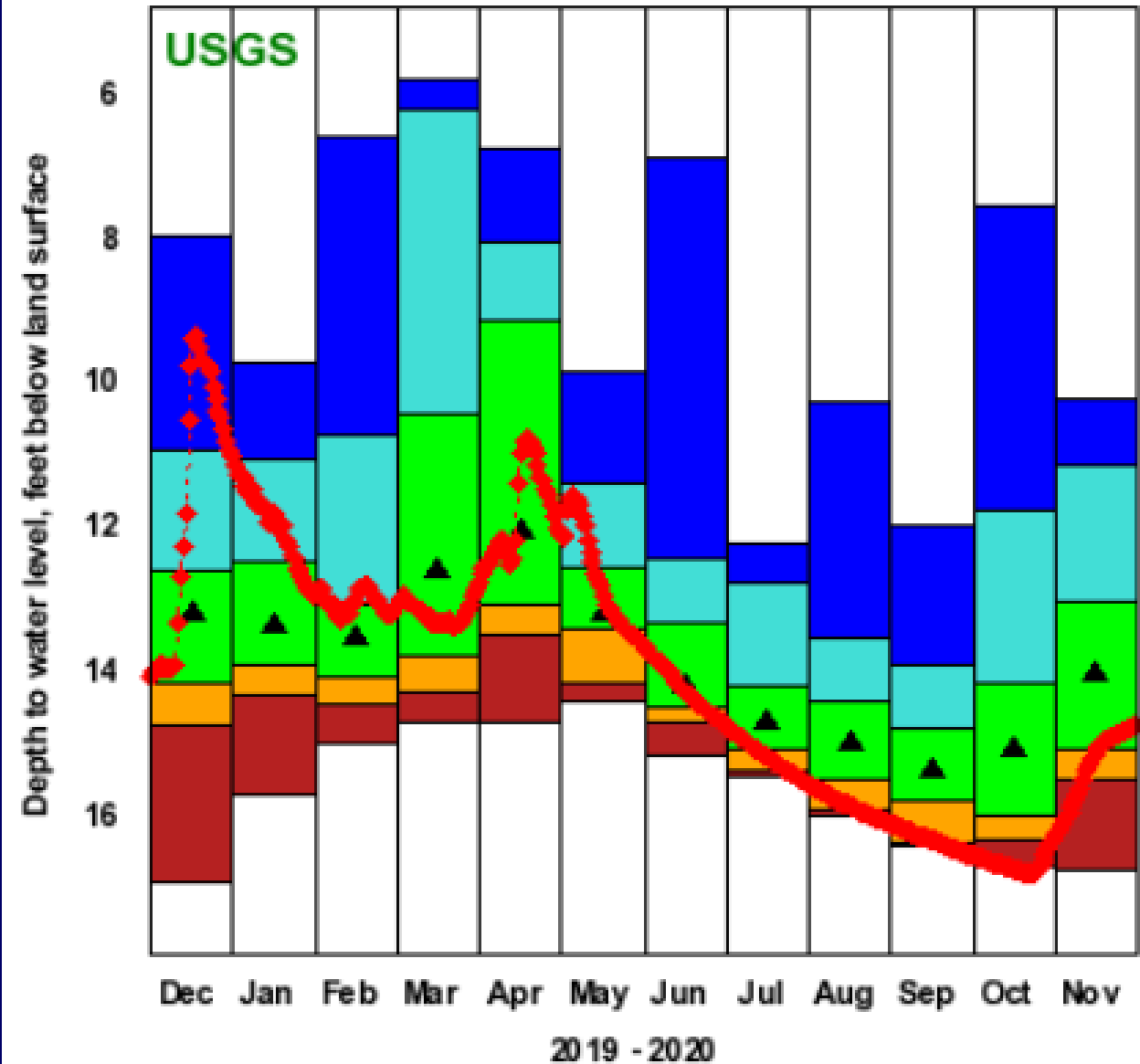
All data

Dec. 1964 – present

Continuous data

Aug. 2001 - present





Plot created 11/30/20 19:18

Explanation - Percentile Classes

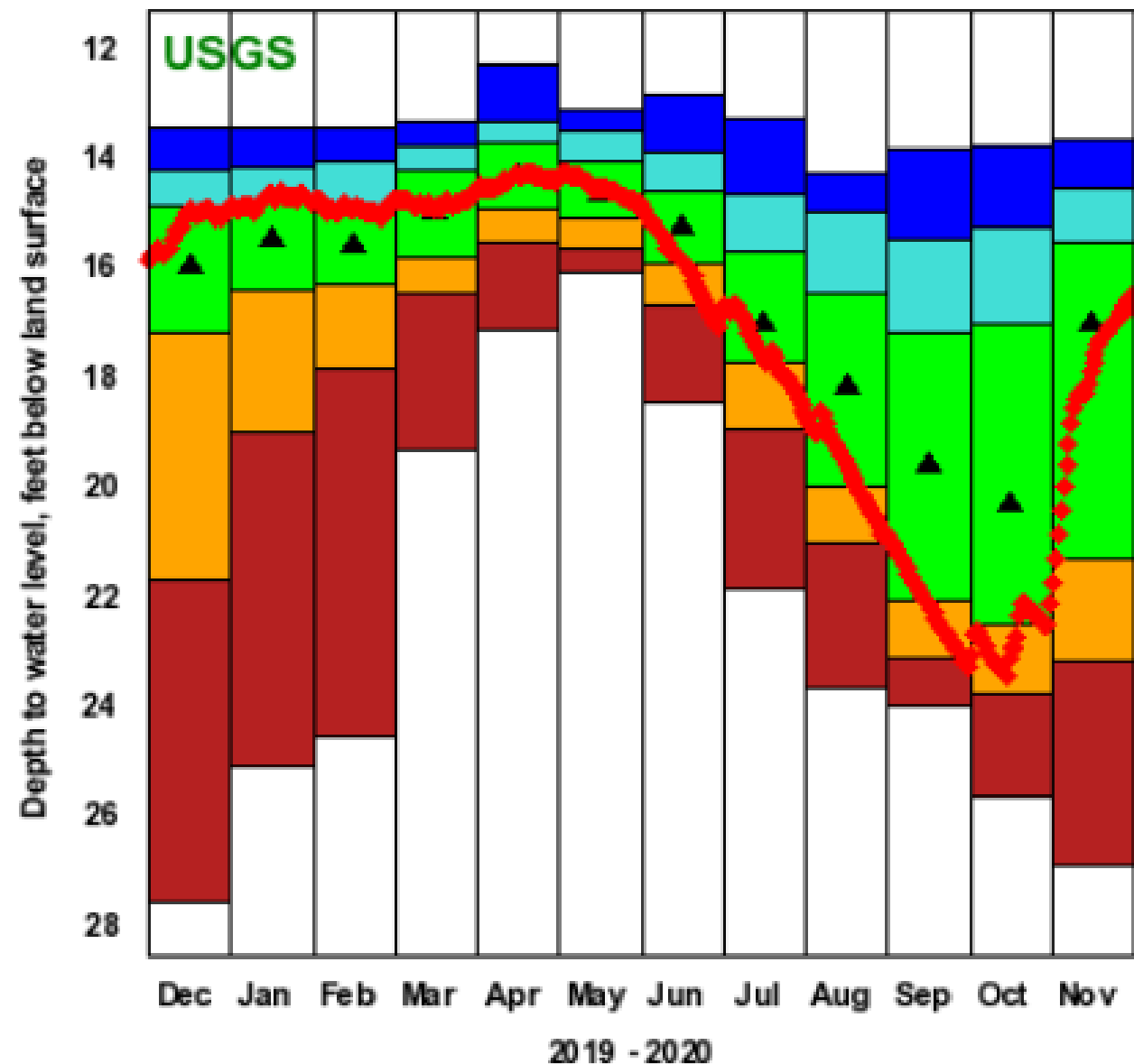


▲ Monthly Median

## Period of Record

All data  
Jan. 1984 – present

Continuous data  
May 2012 - present



Plot created 11/30/20 19:18

Explanation - Percentile Classes



## Period of Record

All data  
Aug. 1963 – present

Continuous data  
Oct. 1984 - present

# Questions

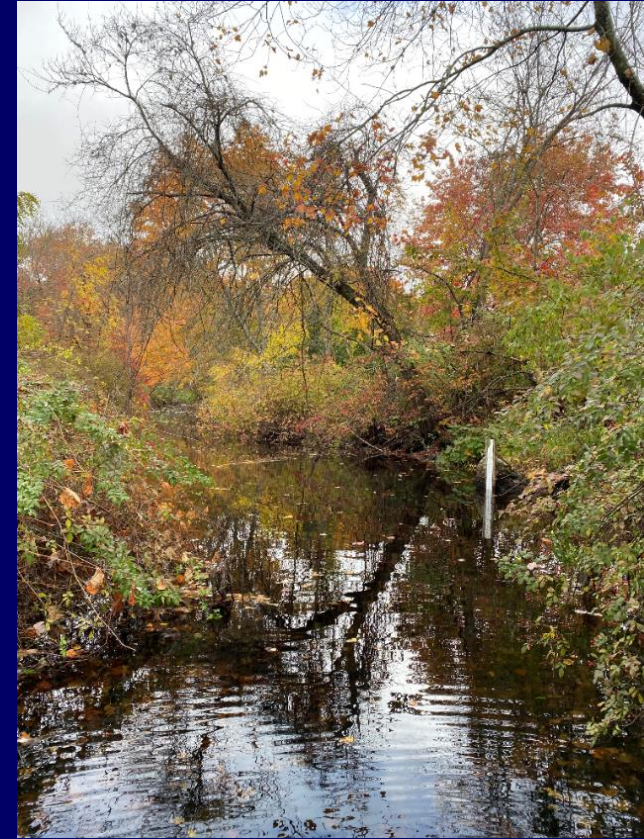
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Aug. 19, 2020



Sept. 23, 2020



Oct. 21, 2020

Segreganset River at North Dighton, MA (01109070)