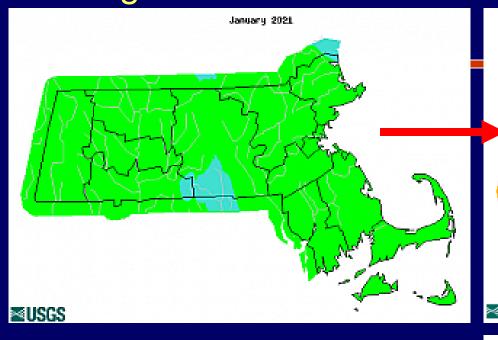
# Streamflow and Groundwater Conditions in Massachusetts

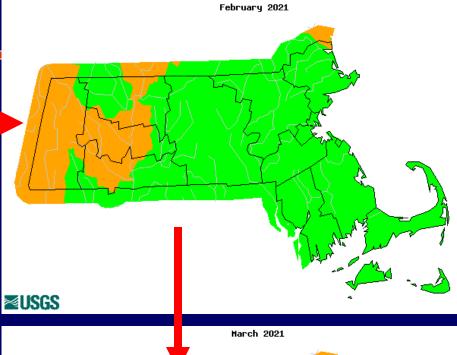
October 6, 2021

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

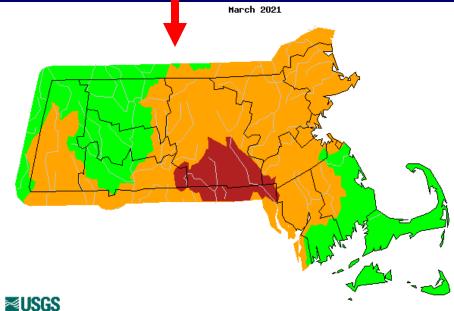


## Average Streamflow Conditions – January-March 2021

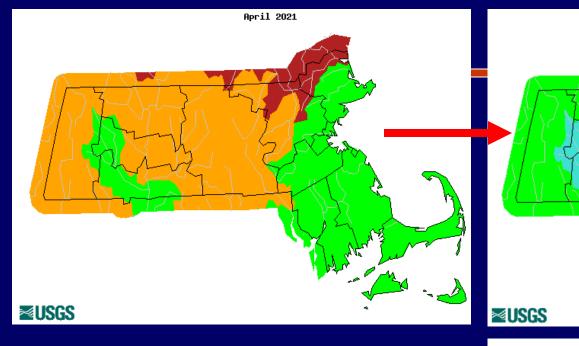


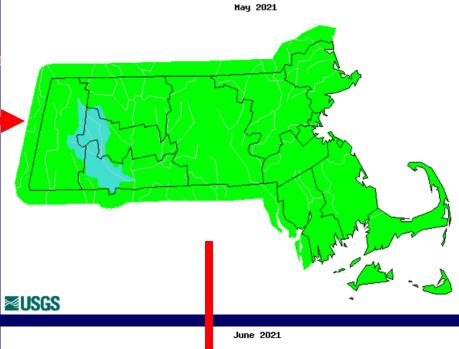


Explanation - Percentile classes								
Laur	<10	10-24	25-75	76-90	>90			
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High		

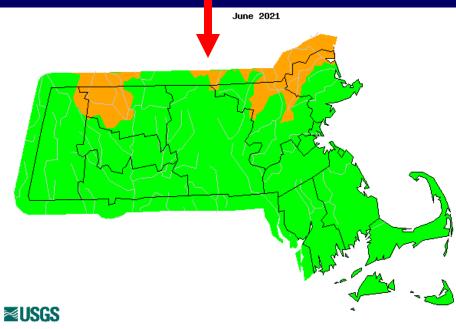


## Average Streamflow Conditions – April-June 2021

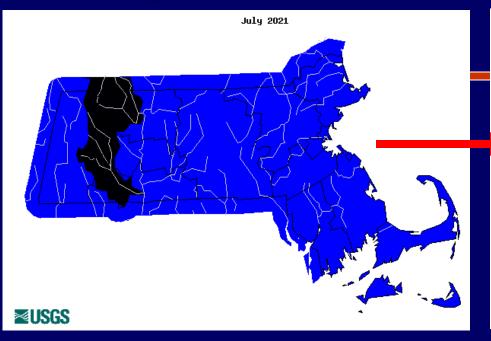


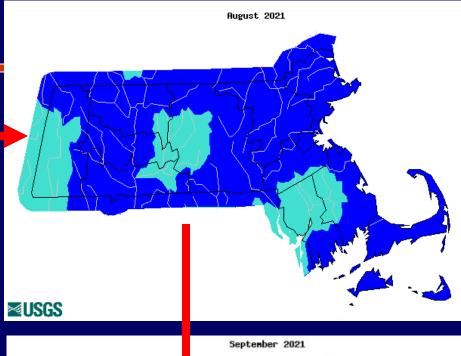


	Explan	ation -	Percent	ile class	ses	
Low	<10	10-24	25-75	76-90	>90	Link
	Much below normal	Below normal	Normal	Above normal	Much above normal	High



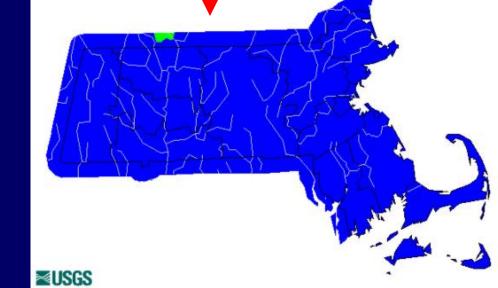
## Average Streamflow Conditions – July-Sept. 2021



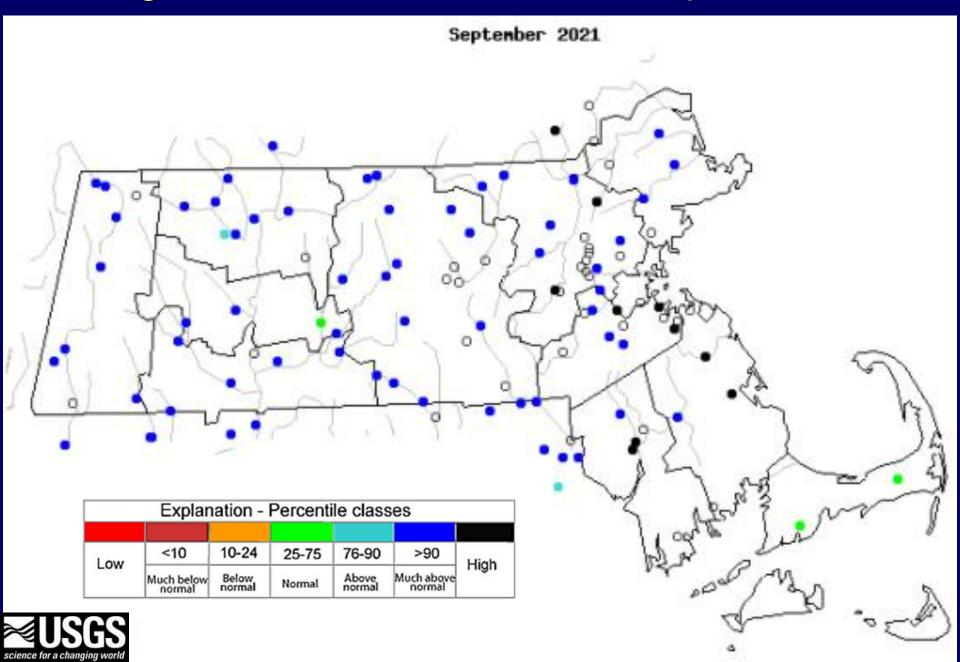


Explanation - Percentile classes								
Low	<10	10-24	25-75	76-90	>90	LUada		
	Much below normal	Below normal	Normal	Above normal	Much above normal	High		

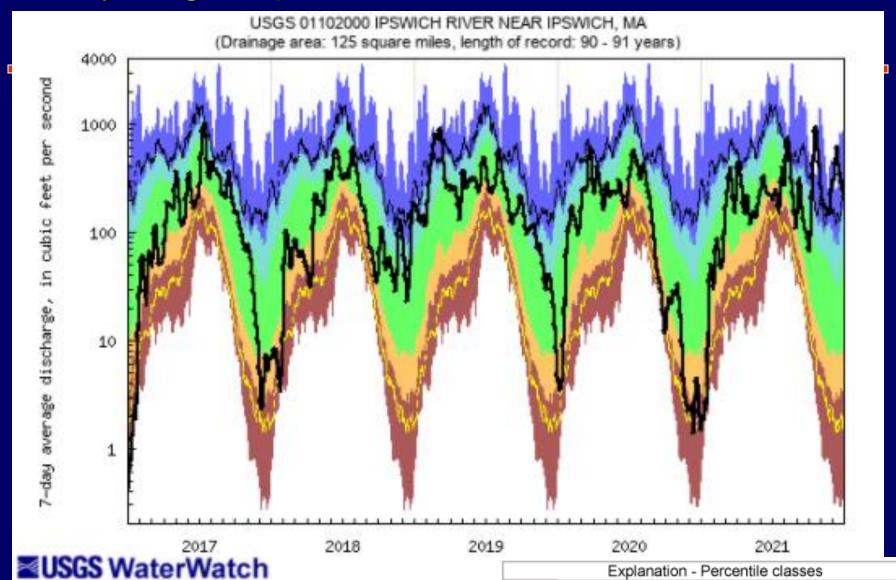




## Average Streamflow Conditions – September 2021



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



lowest-

10th percentile

Much below Normal

10-24

Below normal 25-75

Normal

76-90

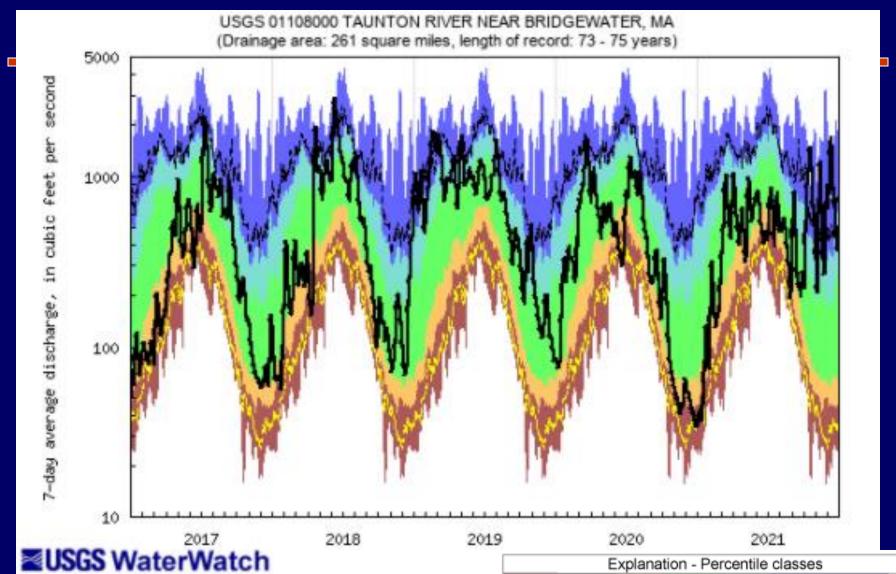
Above normal 90th percentile -highest

Much above normal

Flow



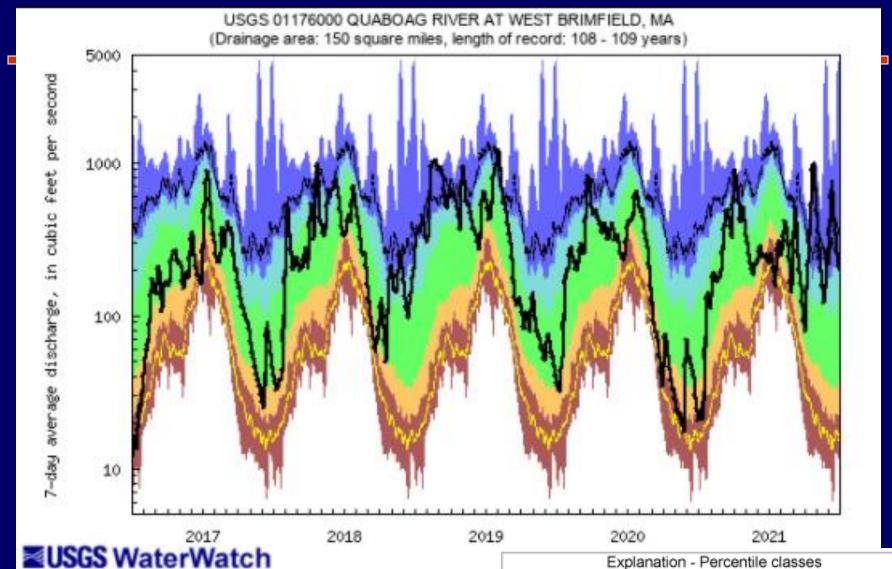
## 7-Day Avg. – Taunton River – Southeastern MA





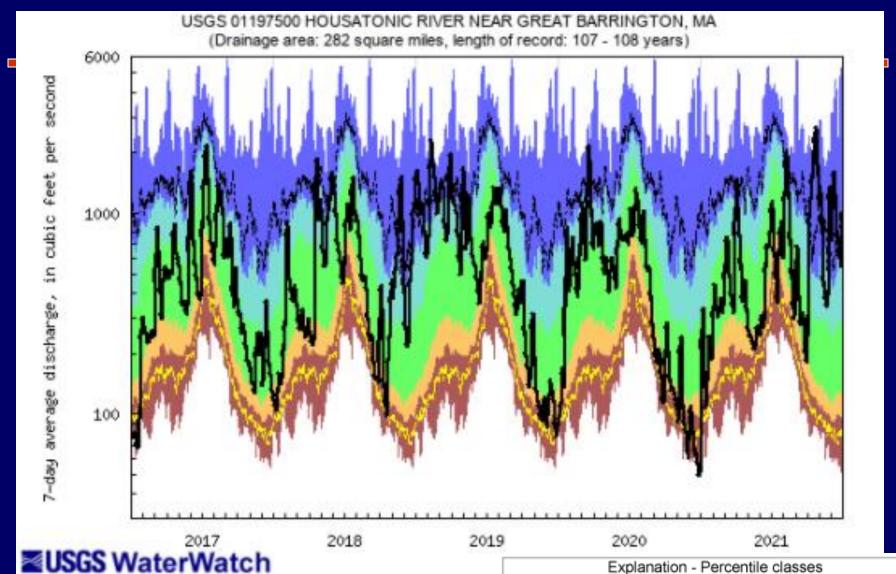
lowest10th percentile 5 10-24 25-75 76-90 95 90th percentile -highest Flow
Much below Normal Below normal Normal Above normal Much above normal

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





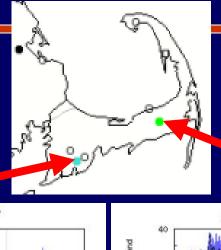
## 7-Day Avg. – Housatonic River – Western MA

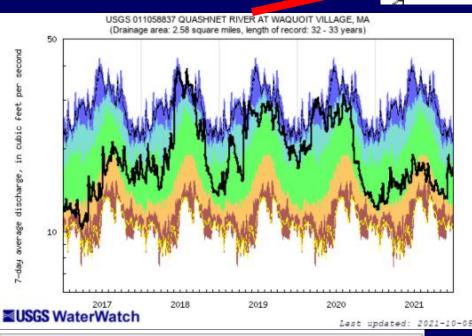


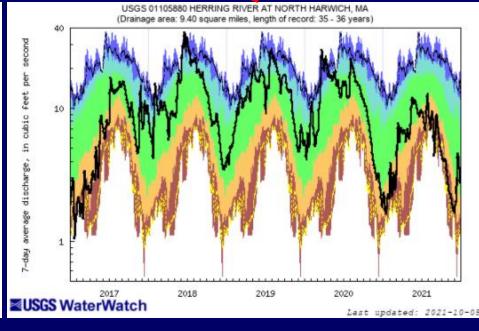


Explanation - Percentile classes										
							_			
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow			
Much below Normal		Below normal	Normal	Above normal	Much above normal					

## 7-Day Avg. Herring and Quashnet River – Cape Cod

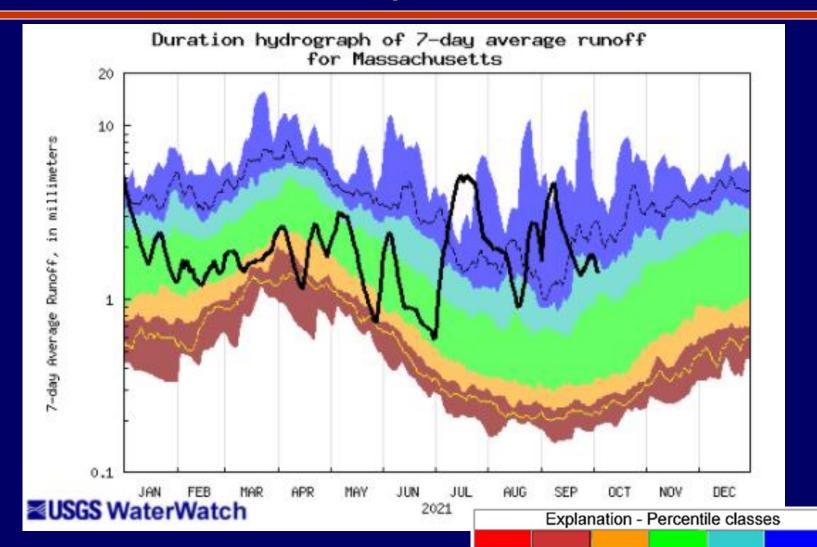






Explanation - Percentile classes									
						_			
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow		
Much below Normal		Below normal	Normal	Above normal	Much above normal		11011		

## 7-Day Streamflow Conditions Jan. 1 - Sept. 30, 2021



<10

Much below

Low

10-24

Below,

25-75

Normal

76-90

Above,

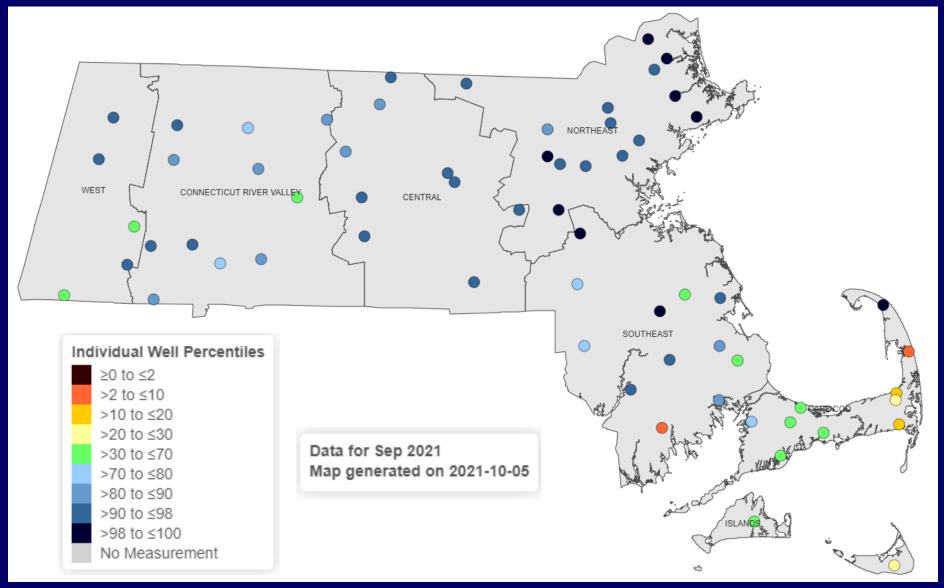
>90

Much above

High

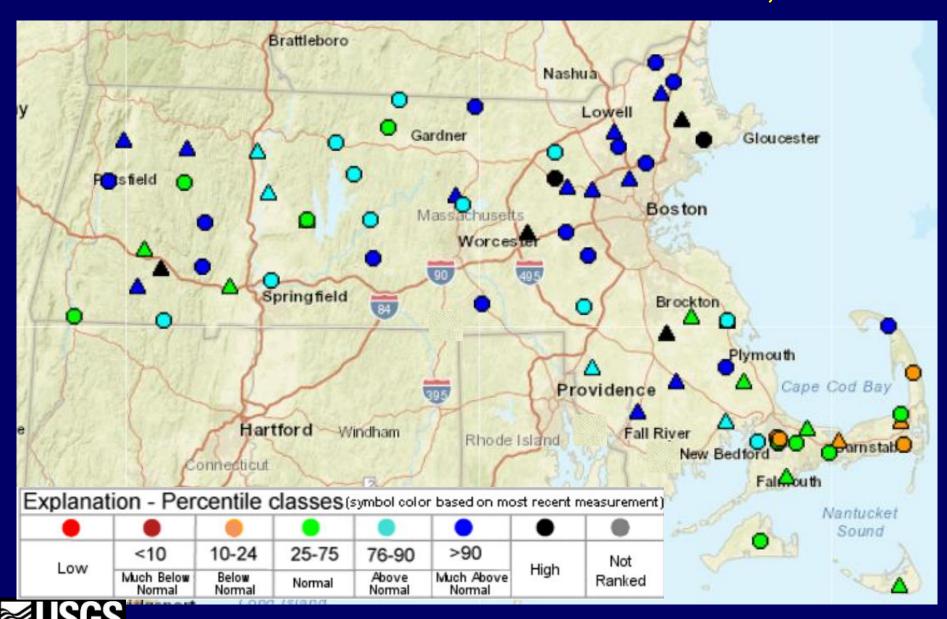


## Avg. Groundwater Conditions – September 2021



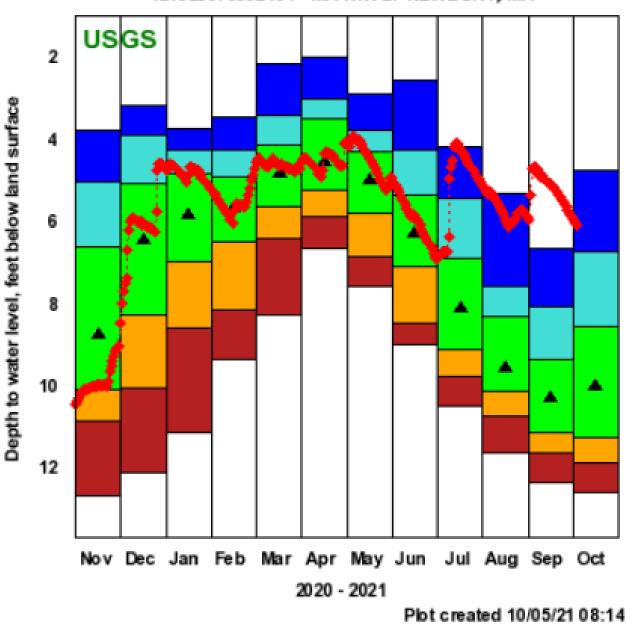


## Groundwater Conditions - October 4, 2021



science for a changing world

#### 424520070562401 - MA-NIW 27 NEWBURY, MA



Explanation - Percentile Classes

10 - 24 25 - 75 76 - 90

Monthly Median

Data Point

#### Period of Record

All data July 1959 – present

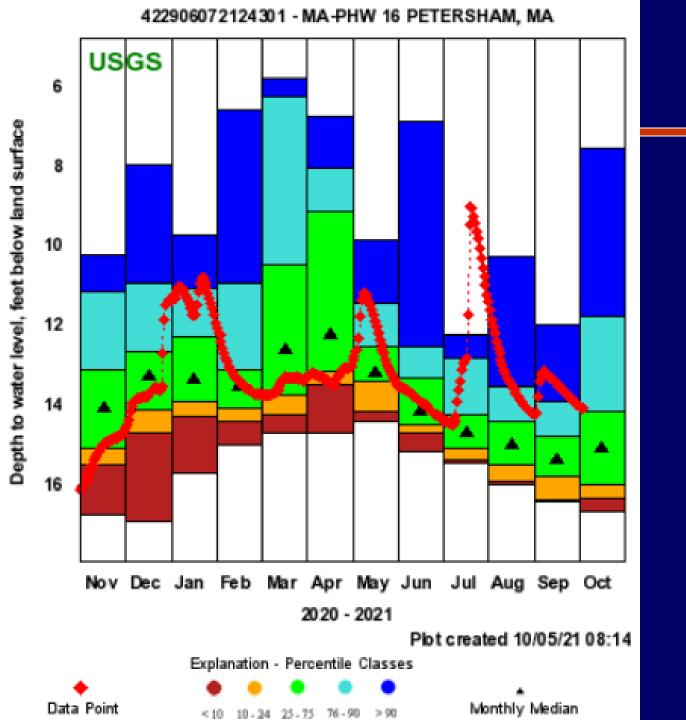
Continuous data
Oct. 1984 - present

## 420544071173701 - MA-NNW 27R NORFOLK, MA USGS Depth to water level, feet below land surface ۸ 7 9 Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct 2020 - 2021 Plot created 10/05/21 08:13 Explanation - Percentile Classes Data Point Monthly Median

## Period of Record

All data
Dec. 1964 – present

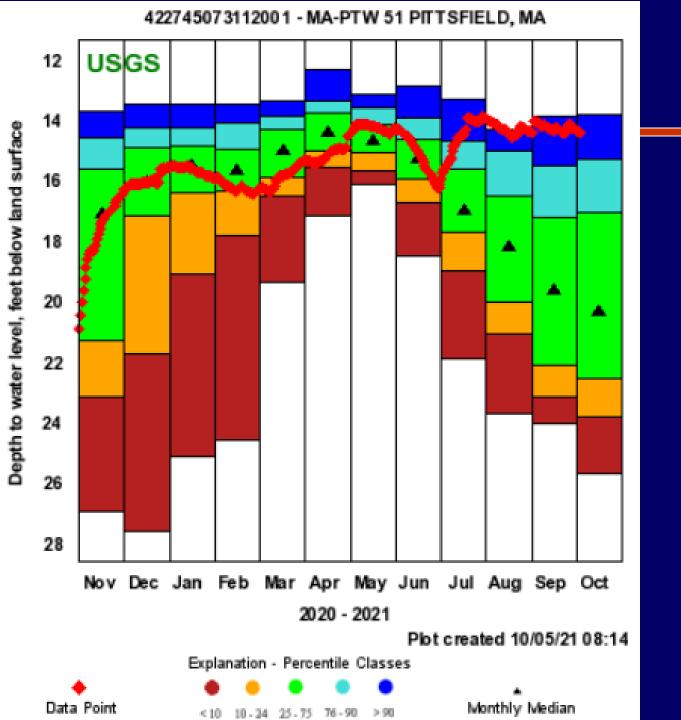
Continuous data
Aug. 2001 - present



#### Period of Record

All data Jan. 1984 – present

Continuous data May 2012 - present



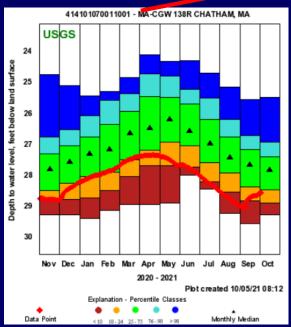
### Period of Record

All data Aug. 1963 – present

Continuous data
Oct. 1984 - present

Daily GW Nov. 2020 – Oct. 2021

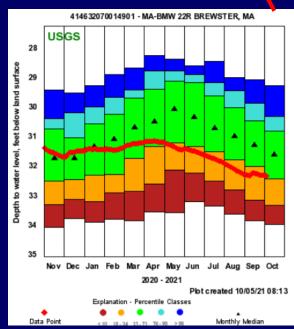




Period of Record

All data

Nov. 1962 – present

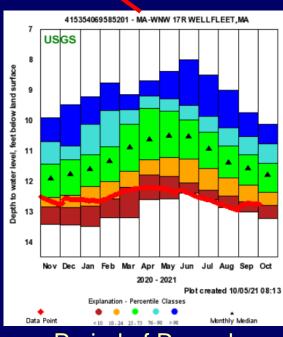


Period of Record

All data

Nov. 1962 – present

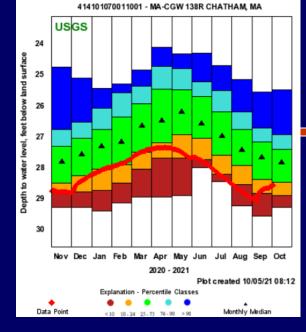
Continuous data
Dec. 2001 - present

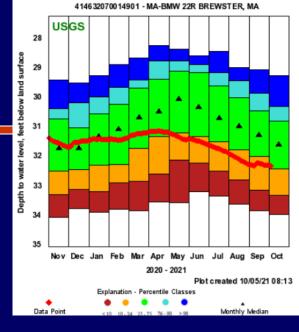


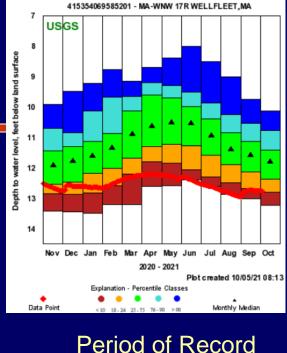
Period of Record
All data
Nov. 1962 – present

Continuous data May 2012 - present







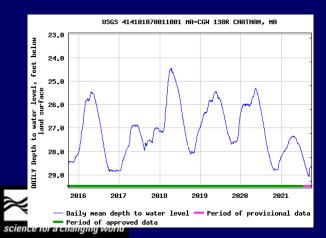


Period of Record

All data

Nov. 1962 – present

Continuous data
May 2012 - present

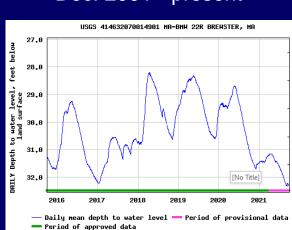


Period of Record

All data

Nov. 1962 – present

Continuous data
Dec. 2001 - present



Period of Record

All data

Nov. 1962 – present

Continuous data
May 2012 - present



## Questions