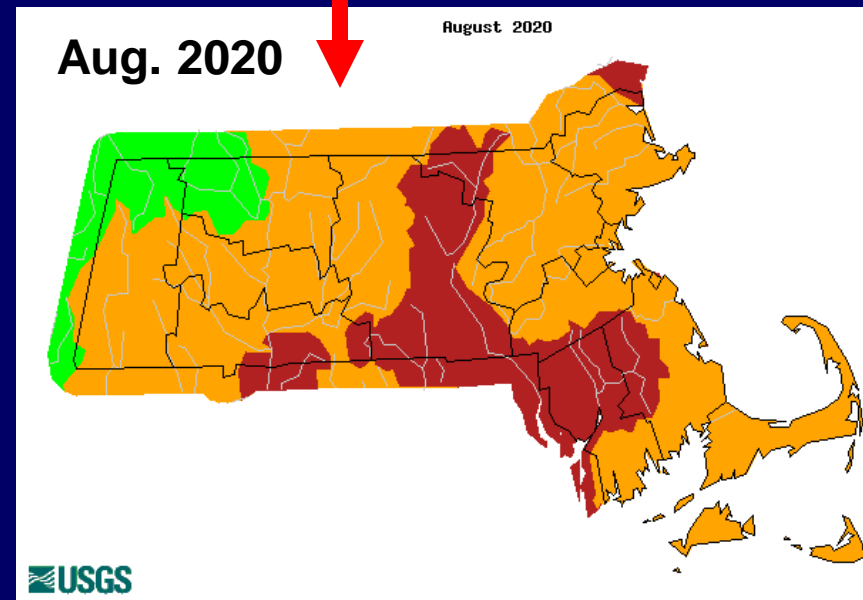
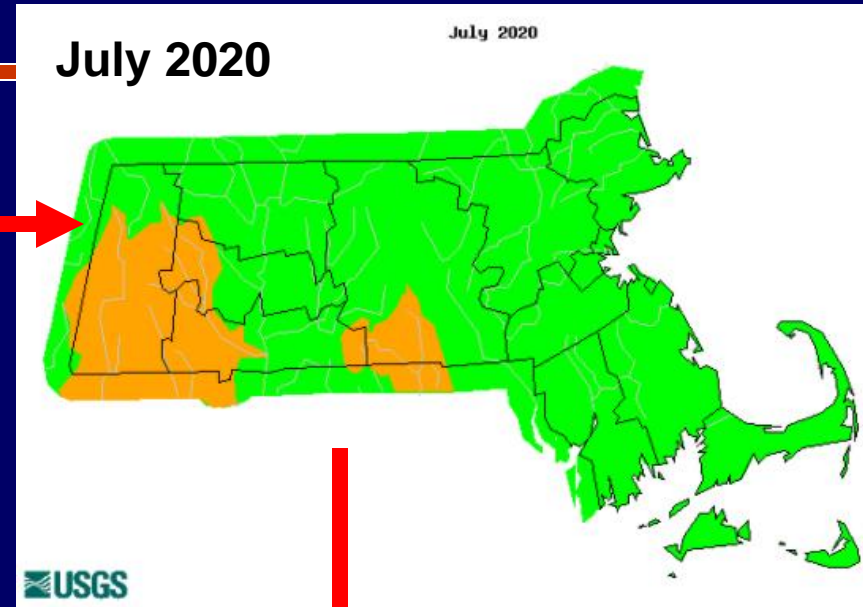
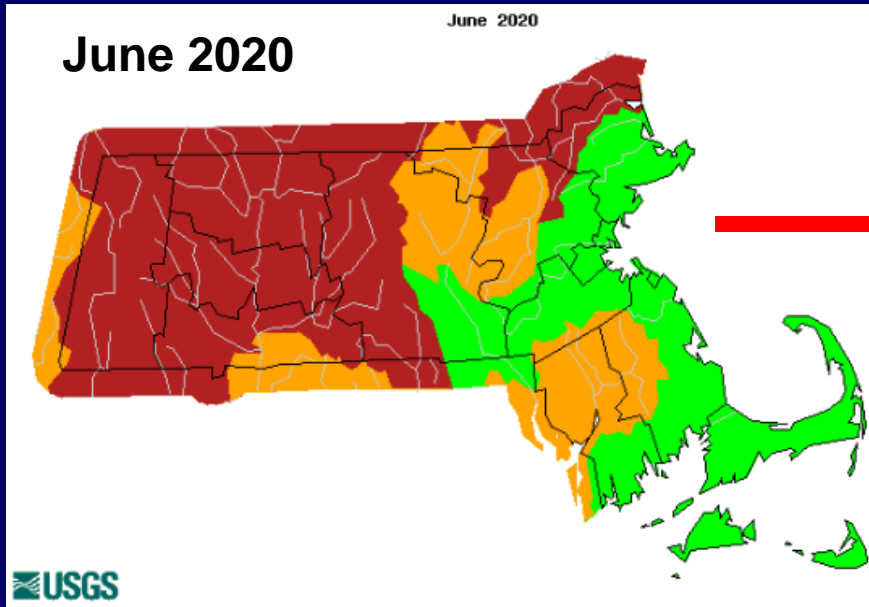

Streamflow and Groundwater Conditions in Massachusetts

June 8, 2021

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



Average Streamflow Conditions – June-Aug. 2020



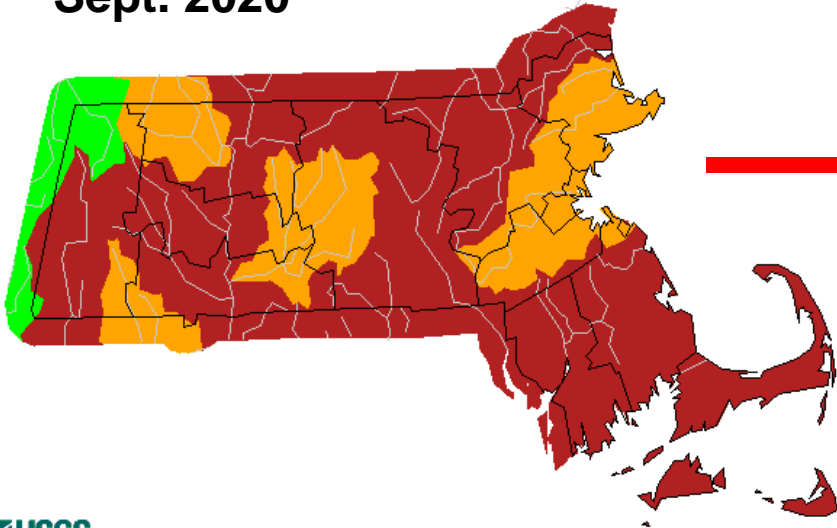
Explanation - Percentile classes

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

Average Streamflow Conditions – Sept. - Nov. 2020

Sept. 2020

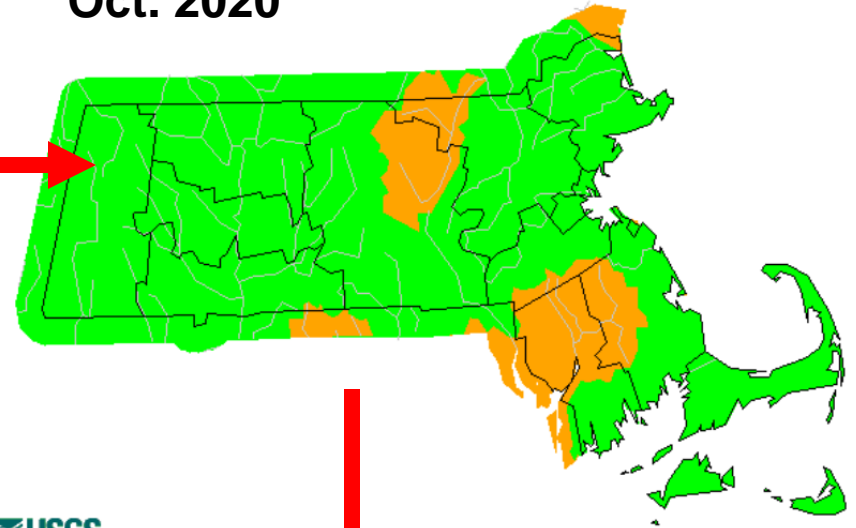
September 2020



USGS

Oct. 2020

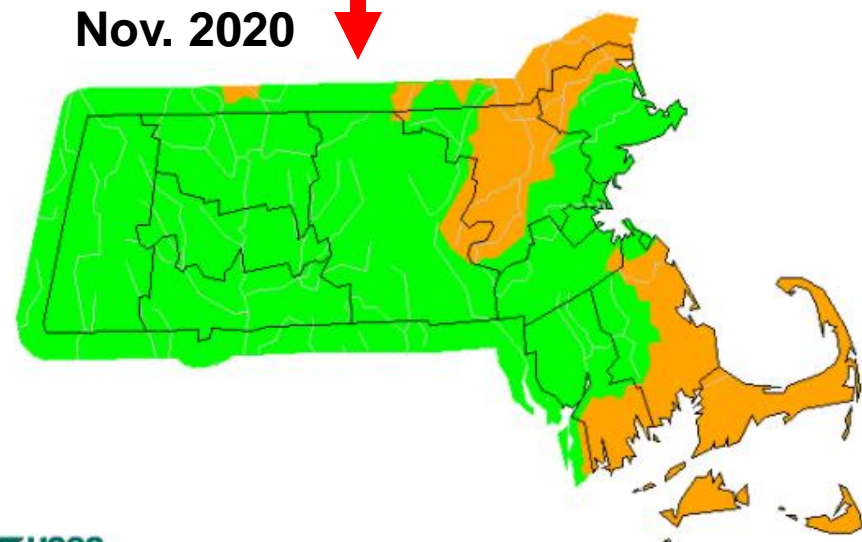
October 2020



USGS

Nov. 2020

November 2020

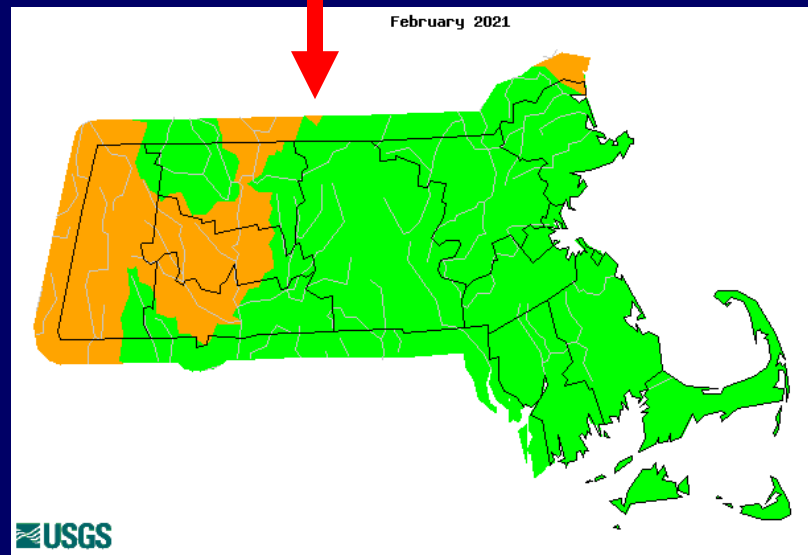
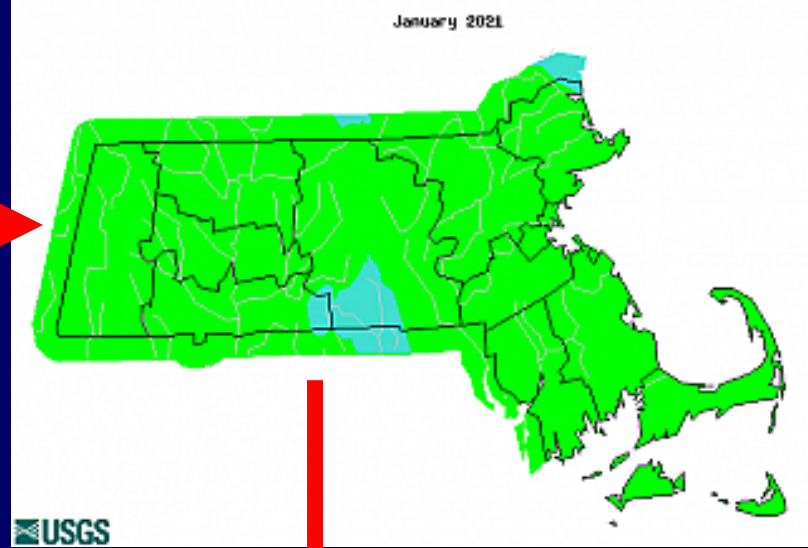
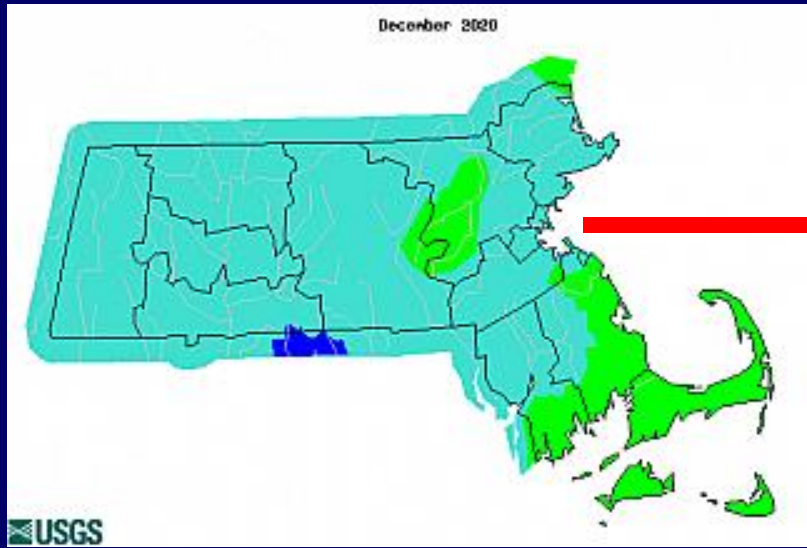


USGS

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 – Dec. 2020 - Feb. 2021

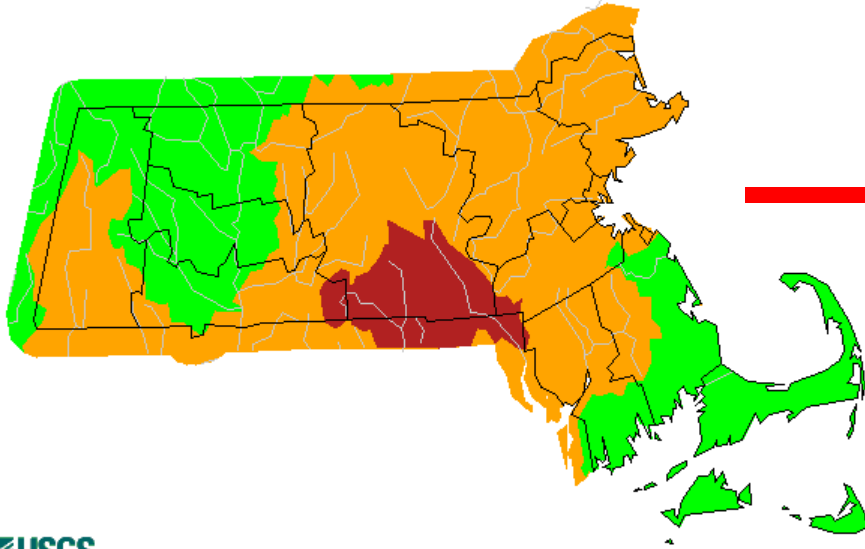


Explanation - Percentile classes

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

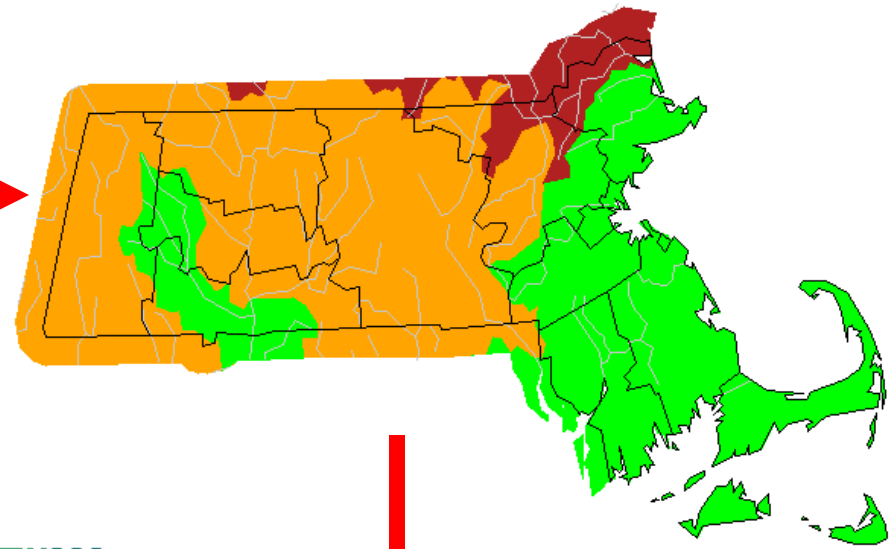
Average Streamflow Conditions – March-May 2021

March 2021



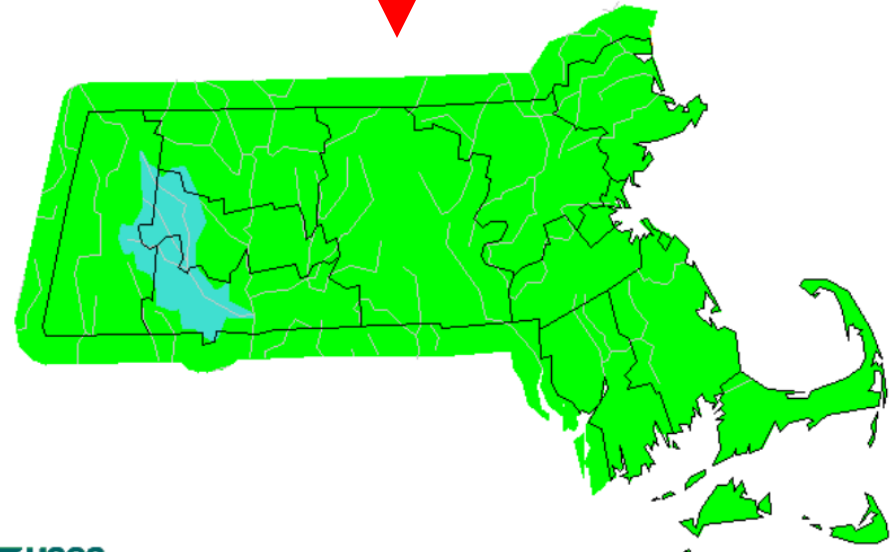
USGS

April 2021



USGS

May 2021

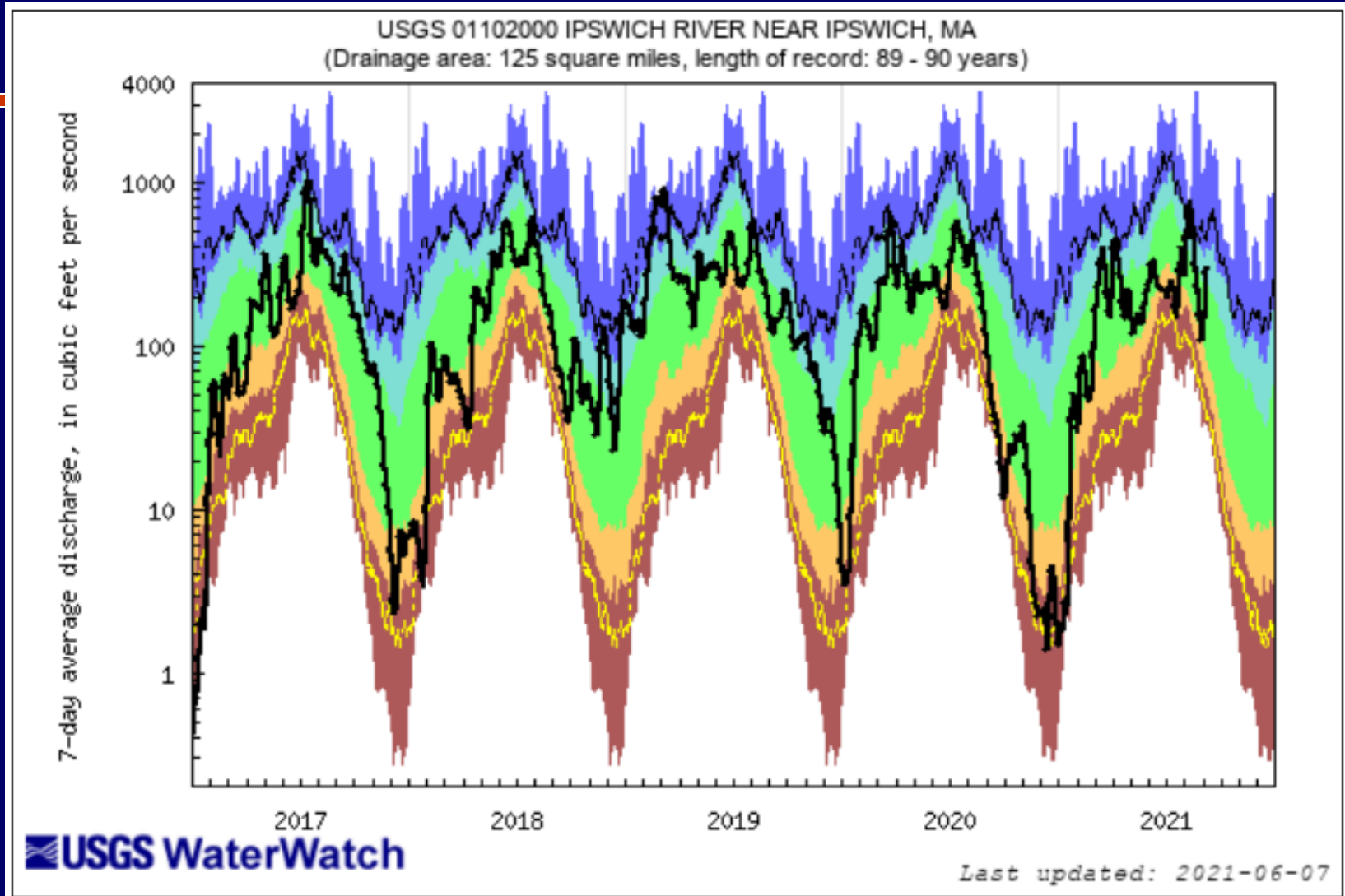


USGS

Explanation - Percentile classes

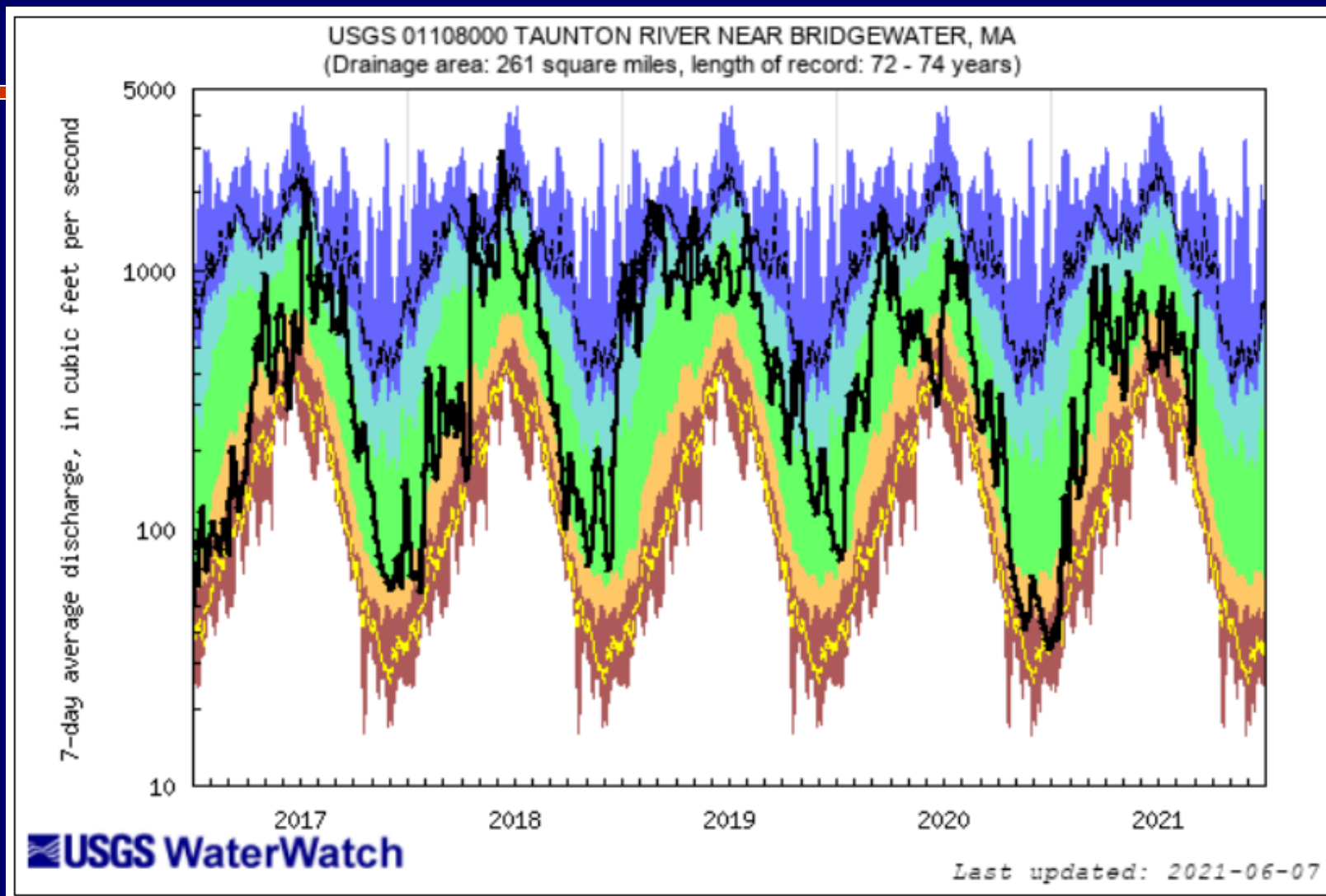
	<10	10-24	25-75	76-90	>90	
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High

7-Day Avg. – Ipswich River – Northeastern MA



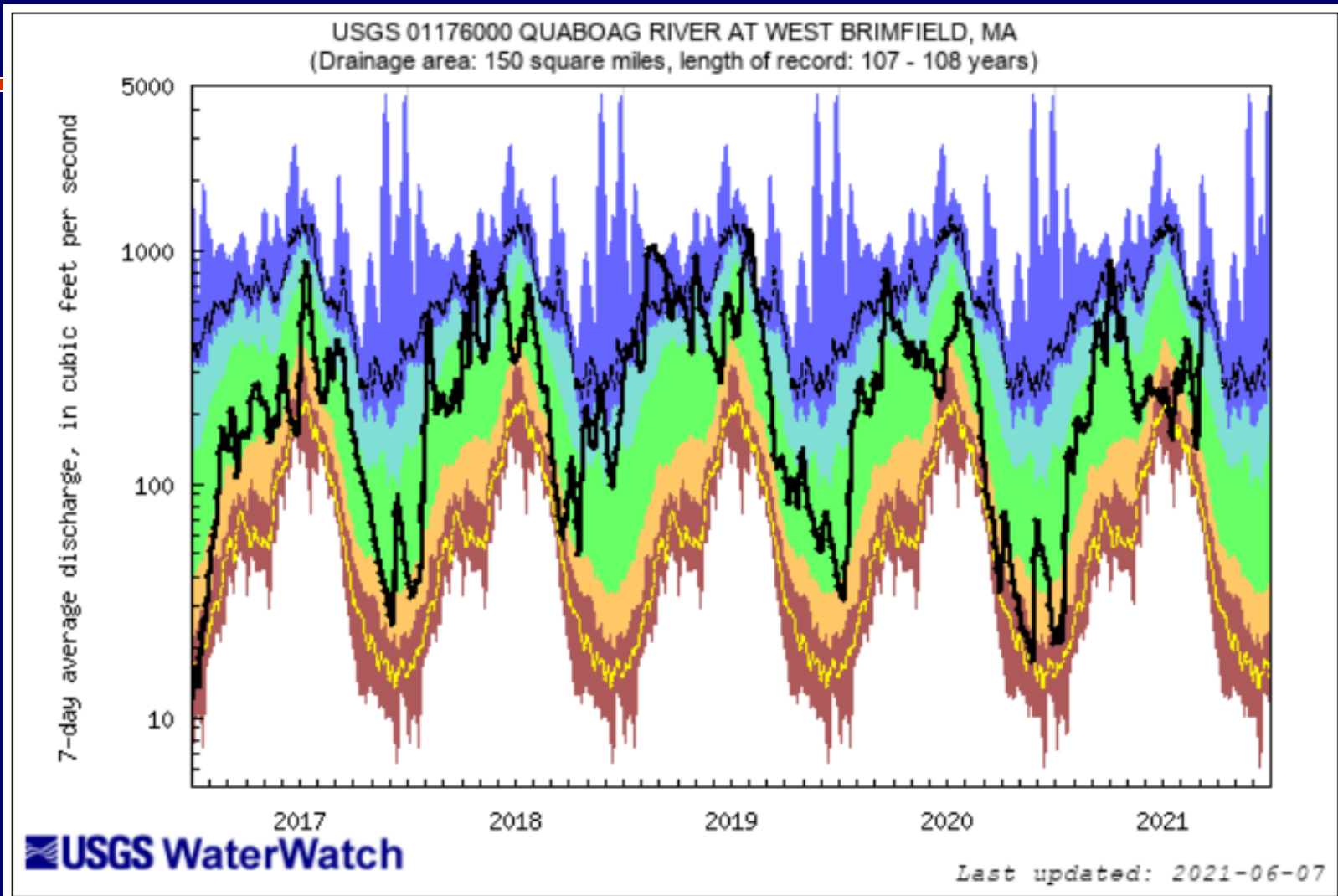
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

7-Day Avg. – Taunton River – Southeastern MA



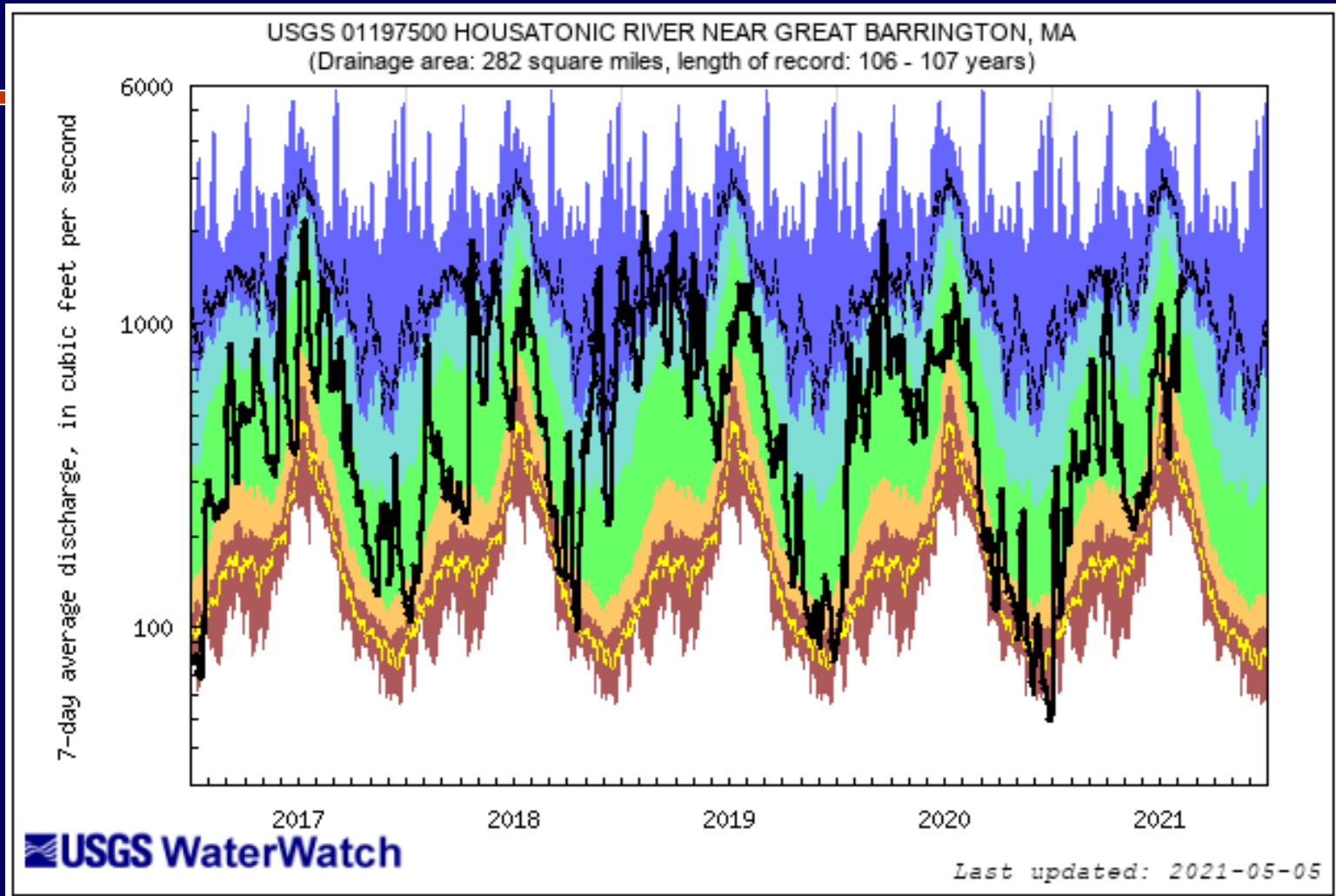
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

7-Day Avg. – Quaboag River – Central MA



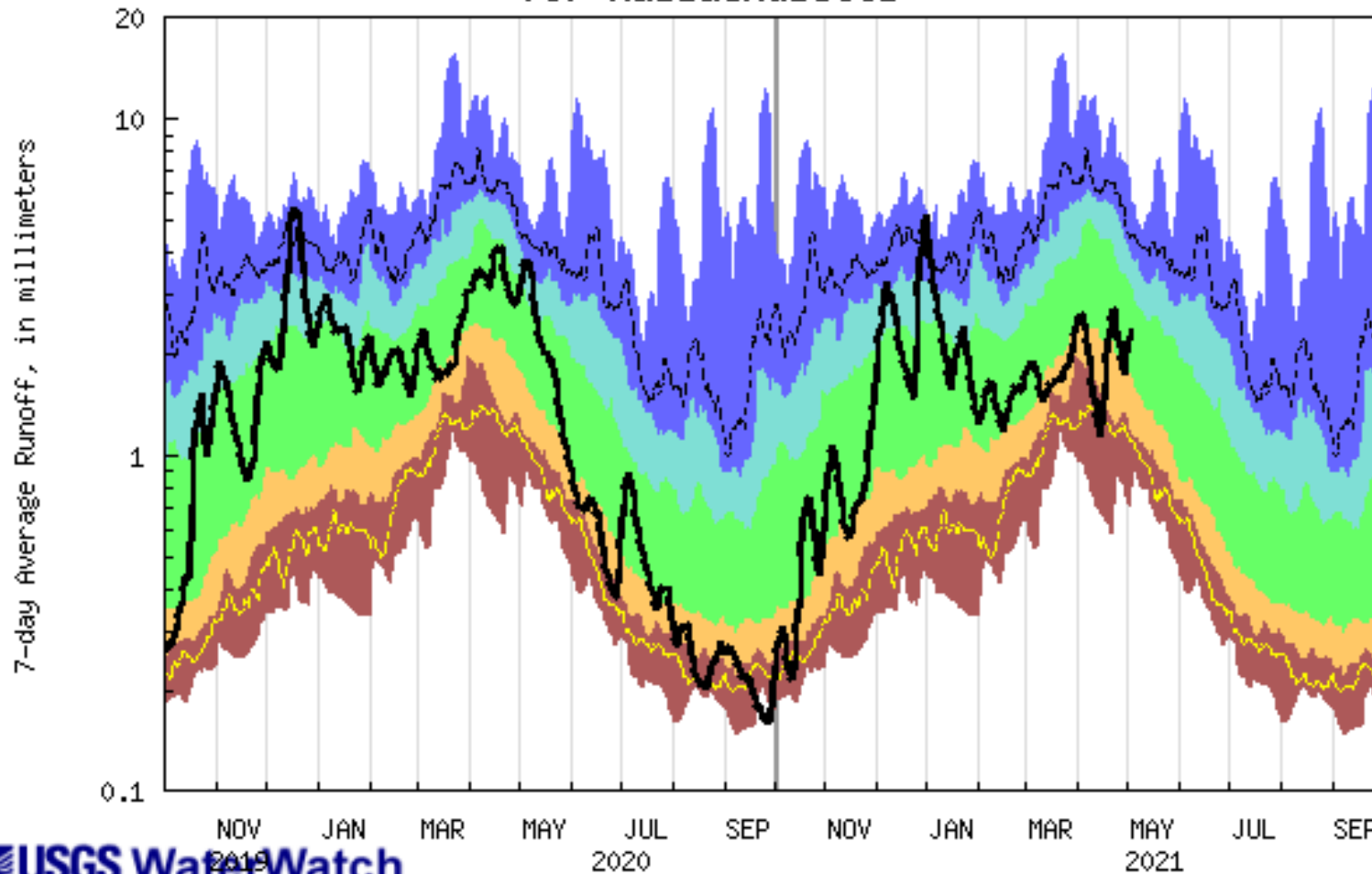
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

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			

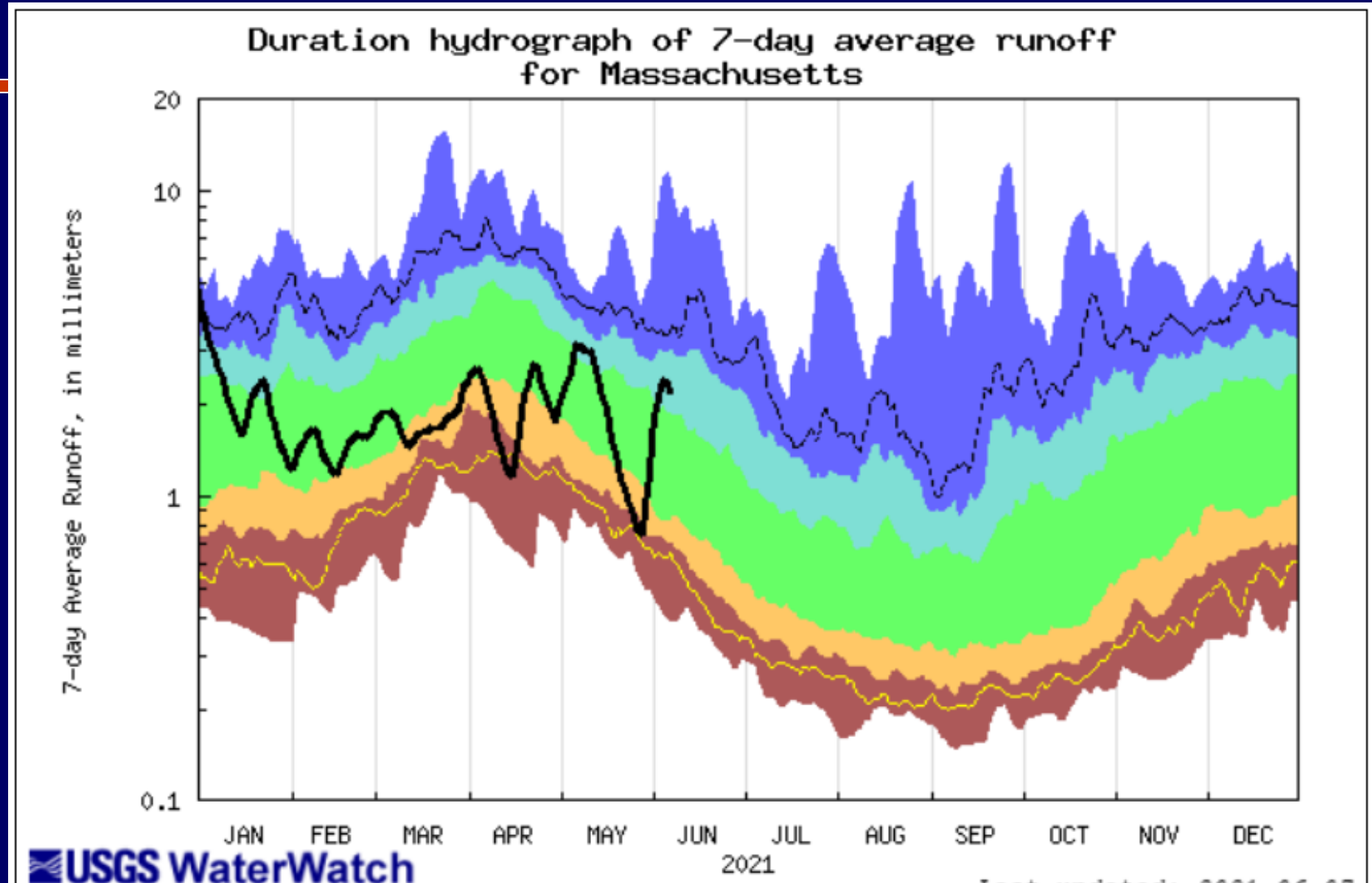
Duration hydrograph of 7-day average runoff for Massachusetts



Explanation - Percentile classes

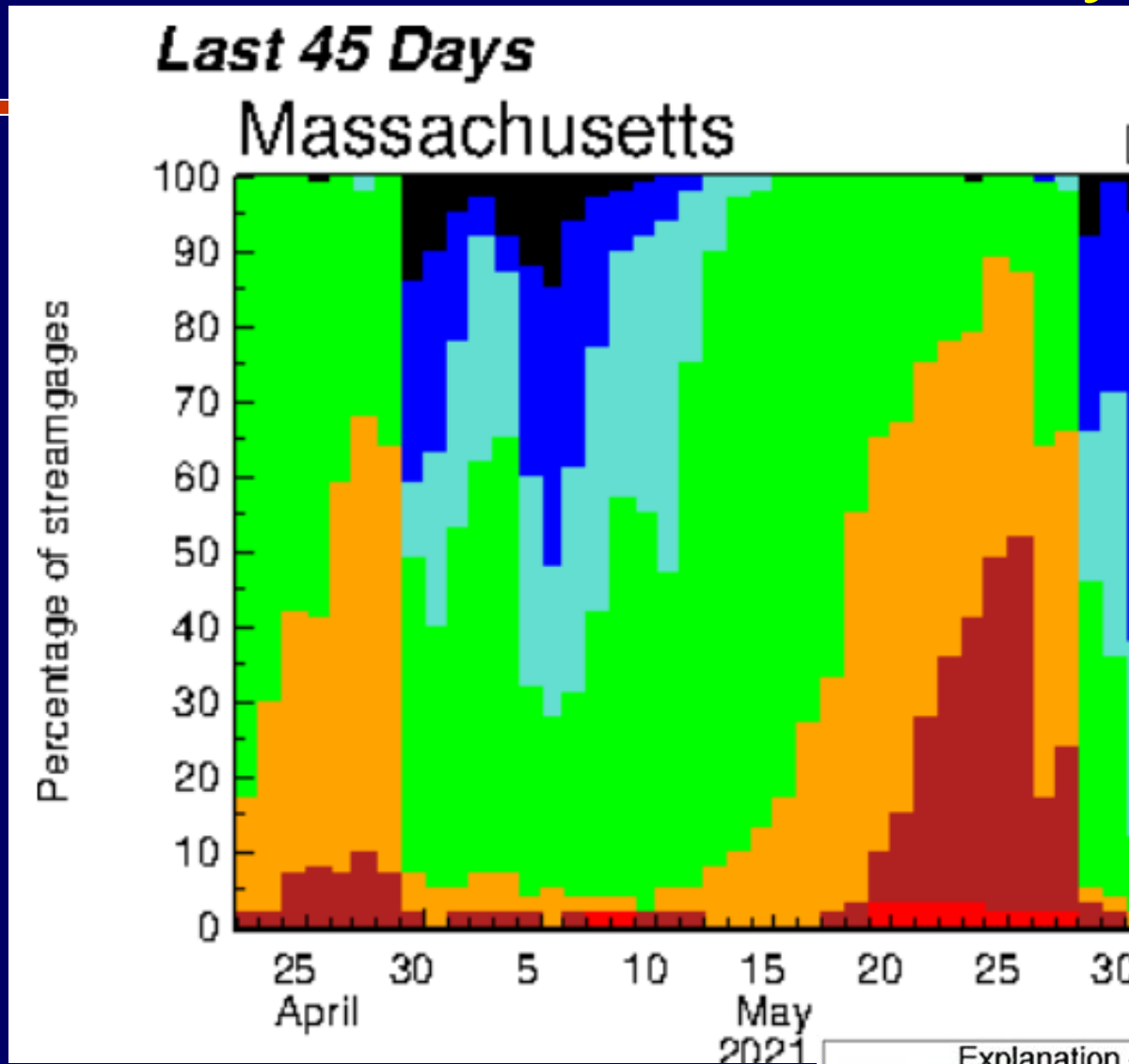
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

Streamflow Conditions – May 31, 2021



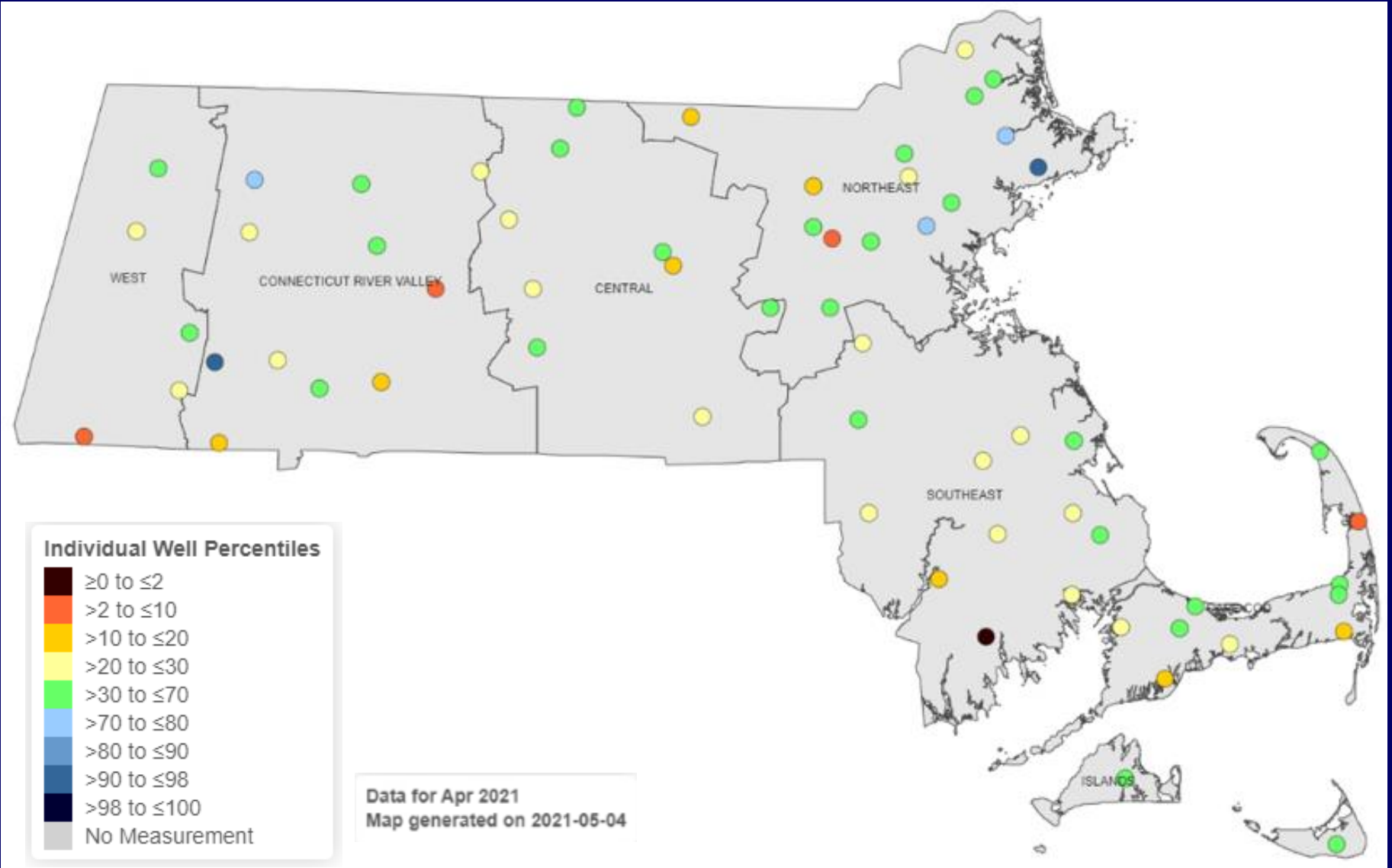
Explanation - Percentile classes						
Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

Streamflow Conditions – May 31, 2021

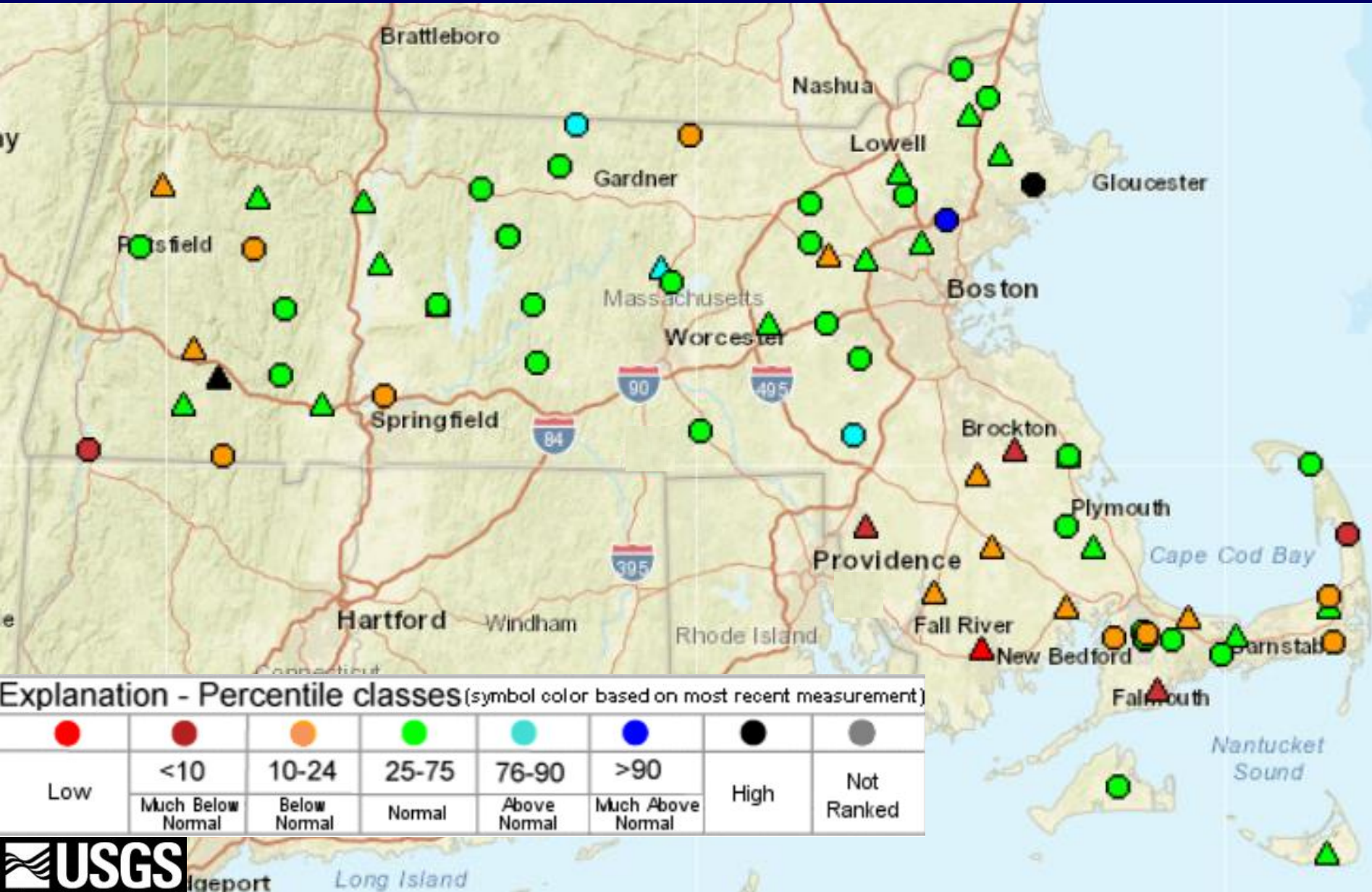


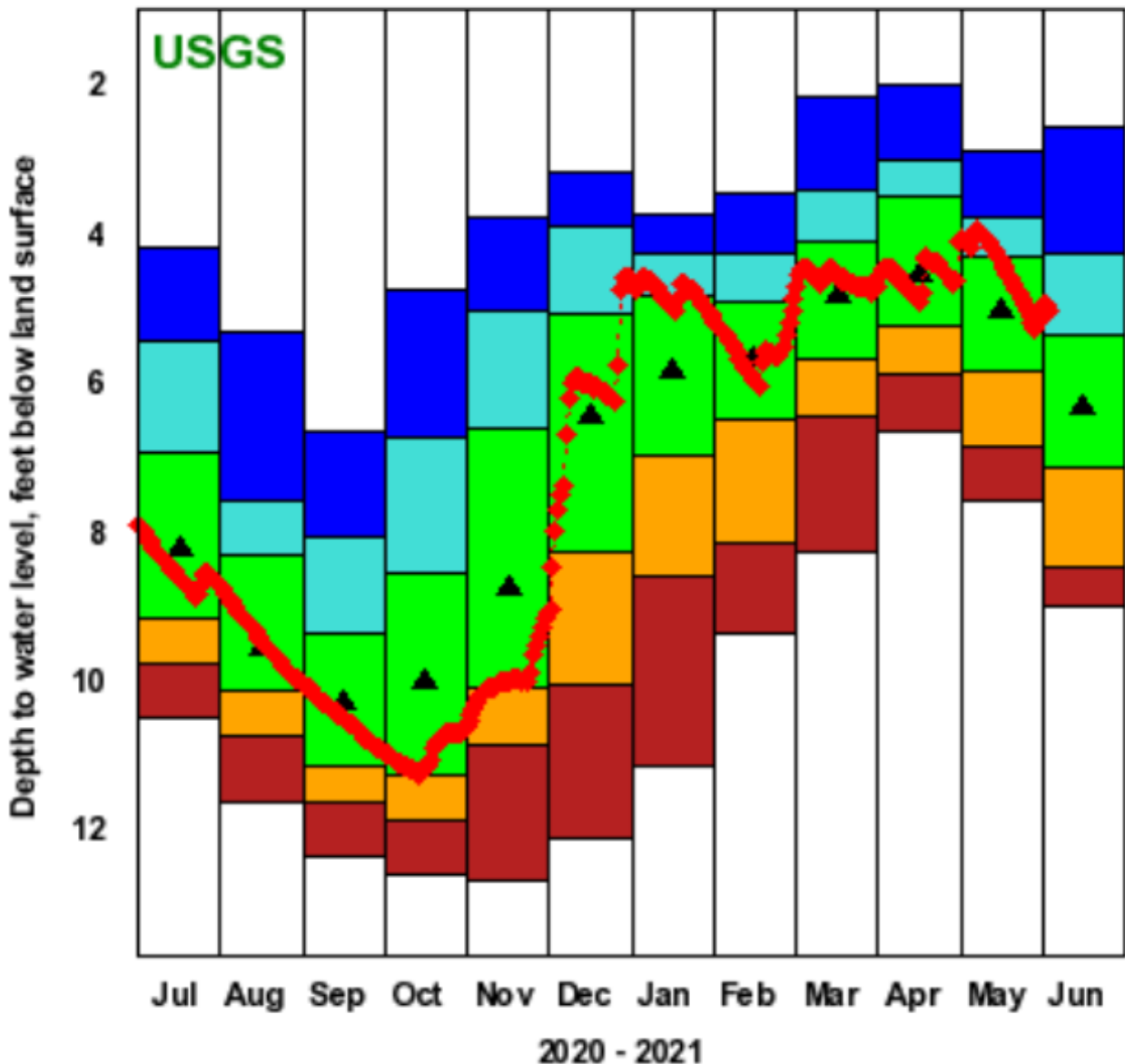
Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Groundwater Conditions – May 5, 2021



Groundwater Conditions – late May 2021





Plot created 06/06/21 05:00

Explanation - Percentile Classes



▲ Monthly Median

Period of Record

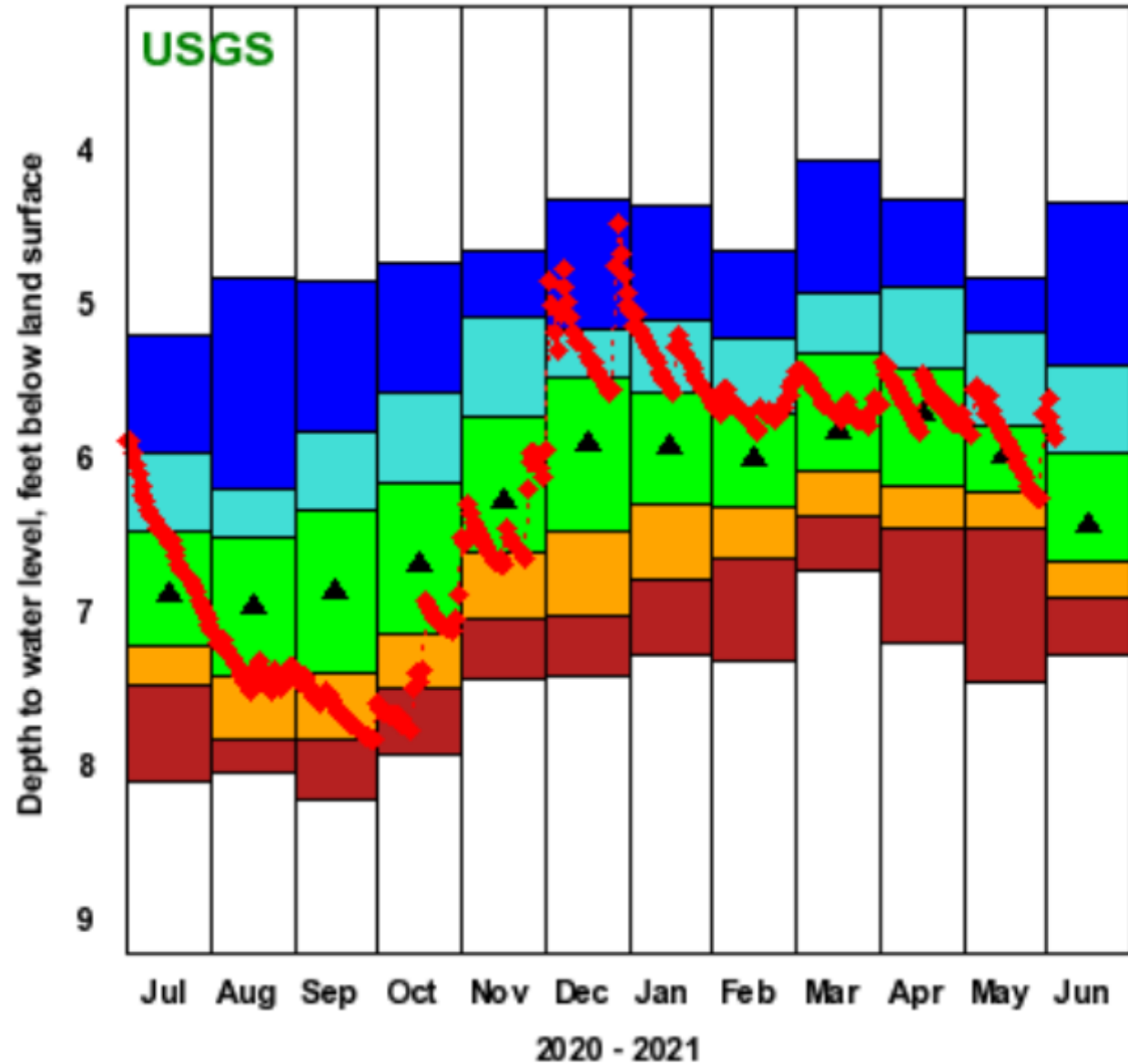
All data
July 1959 – present

Continuous data
Oct. 1984 - present

Period of Record

All data
Dec. 1964 – present

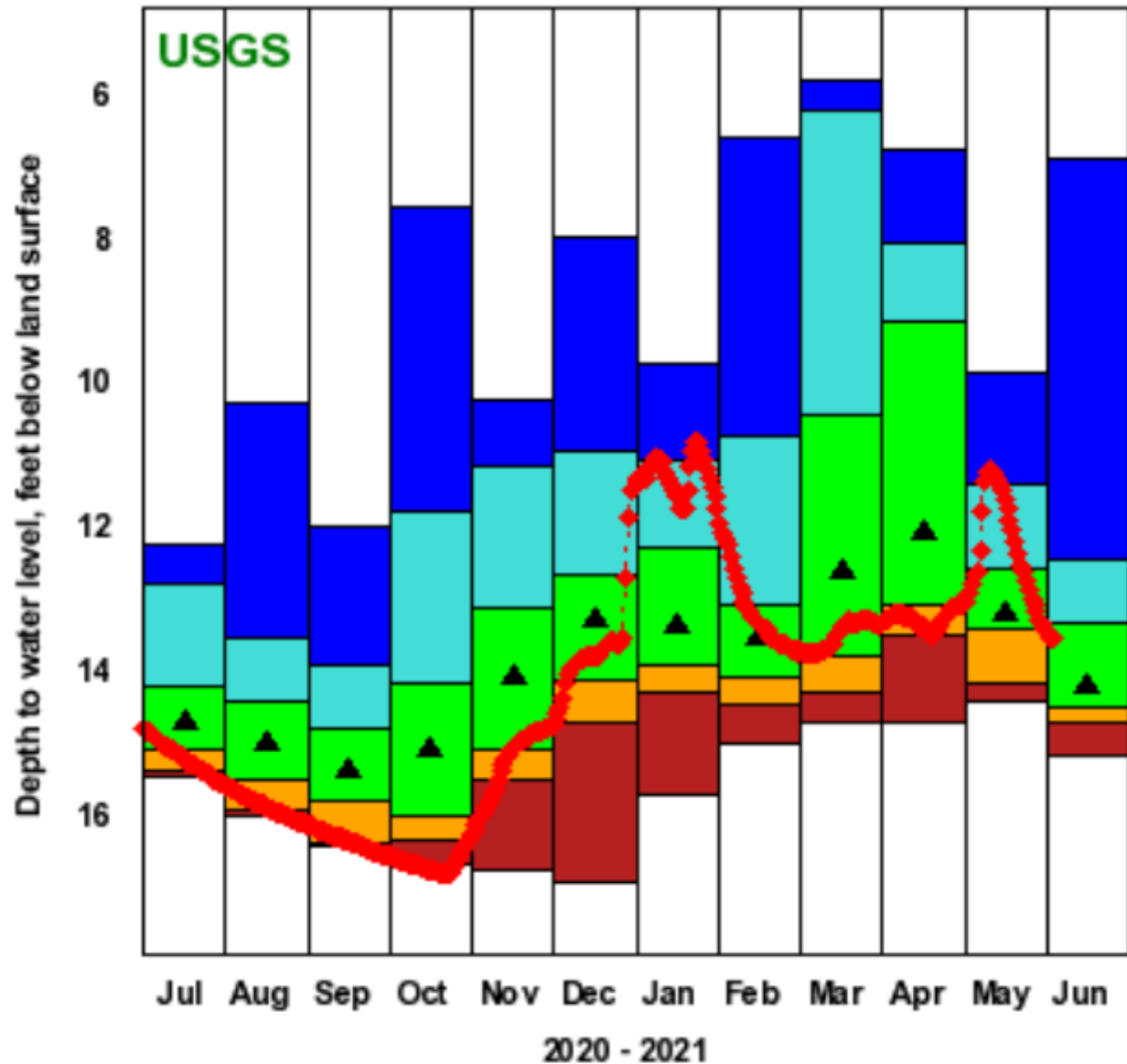
Continuous data
Aug. 2001 - present



Plot created 06/06/21 04:59

Explanation - Percentile Classes





Plot created 06/06/21 05:00

Explanation - Percentile Classes

◆ Data Point

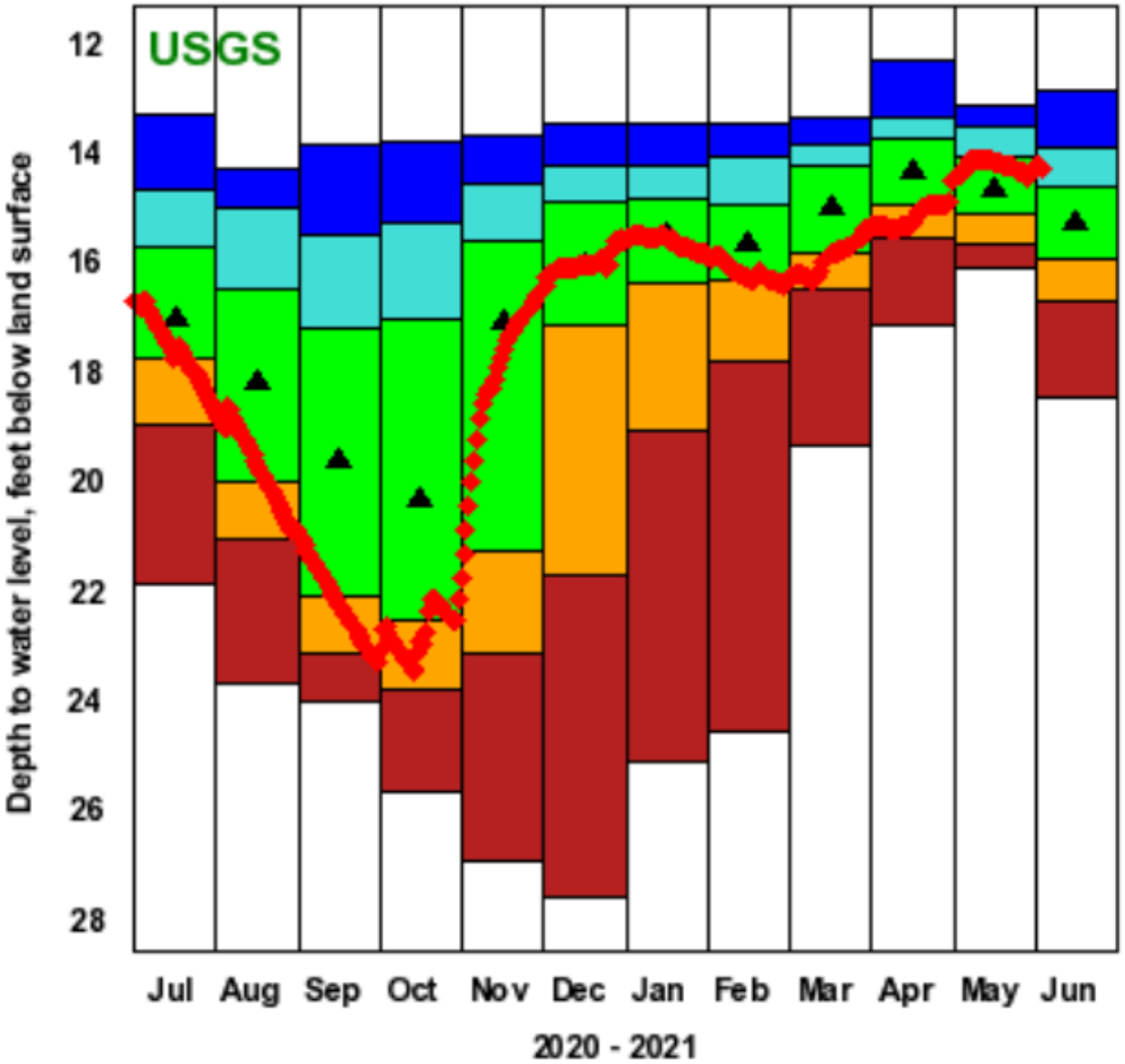
● < 10 ● 10 - 24 ● 25 - 75 ● 76 - 90 ● > 90

▲ Monthly Median

Period of Record

All data
Jan. 1984 – present

Continuous data
May 2012 - present



2020 - 2021

Plot created 06/06/21 05:00

Explanation - Percentile Classes

- ◆
Data Point
- < 10
- 10 - 34
- 35 - 75
- 76 - 90
- > 90
- ▲
Monthly Median

Period of Record

All data
Aug. 1963 – present

Continuous data
Oct. 1984 - present

Questions
