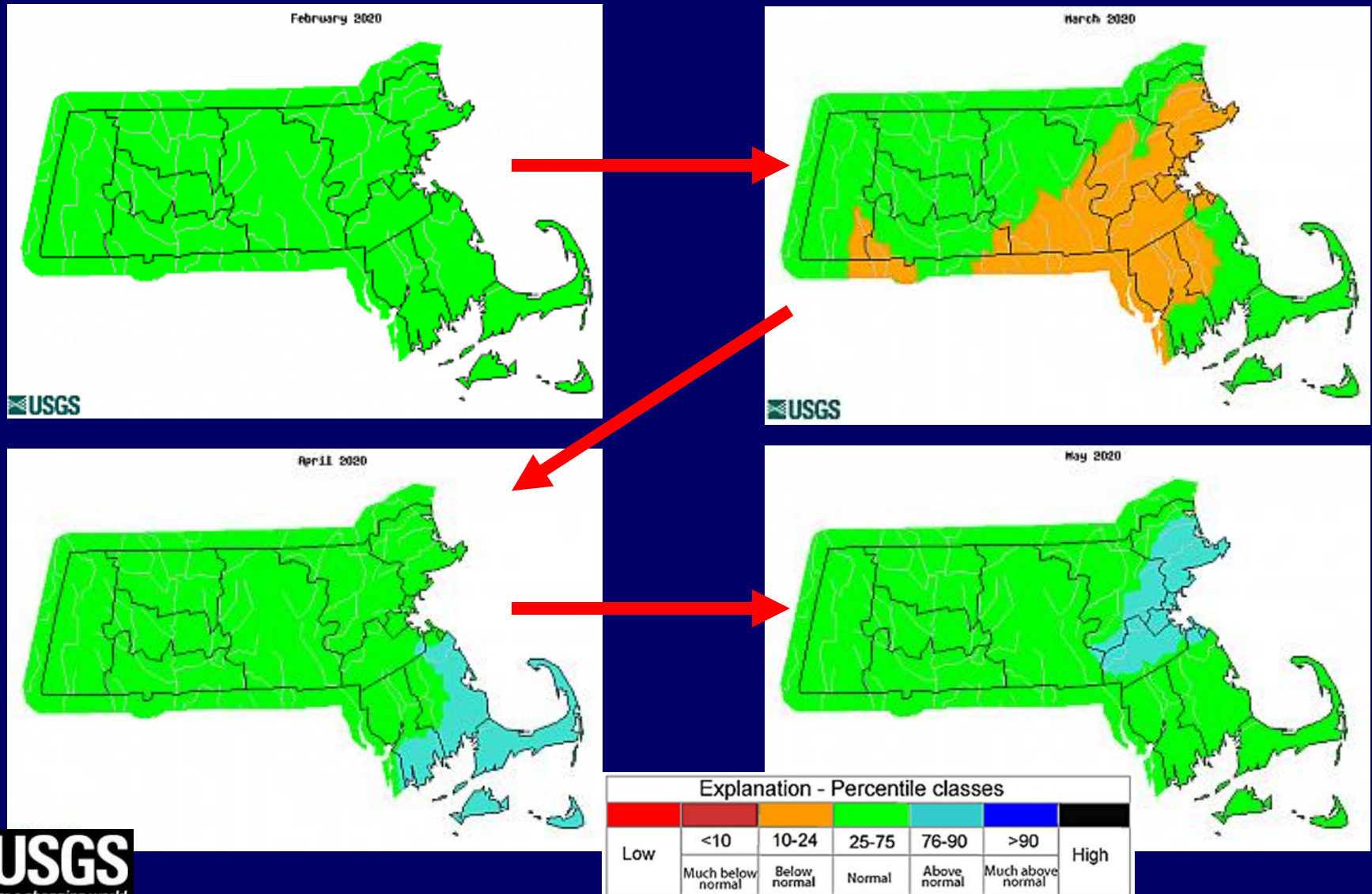

Streamflow and Groundwater Conditions in Massachusetts

September 8, 2021

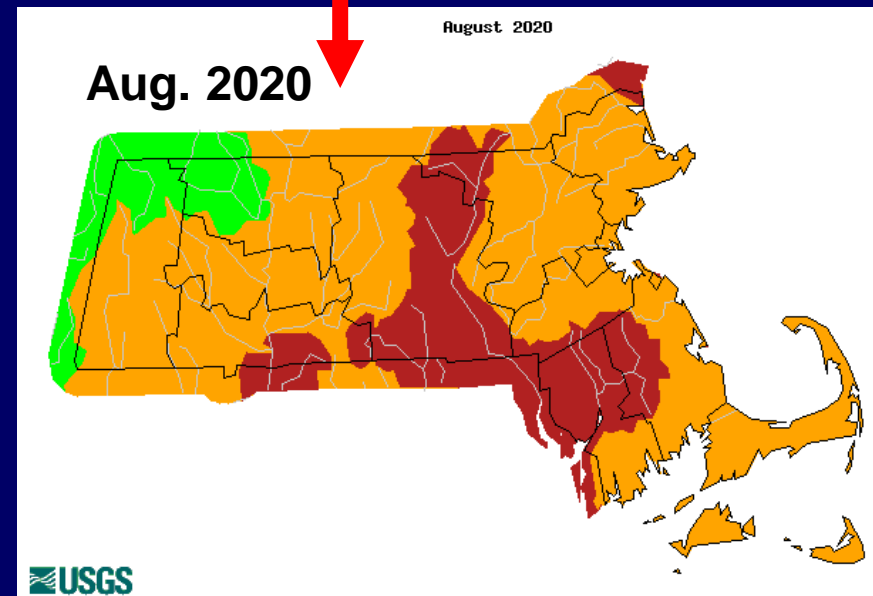
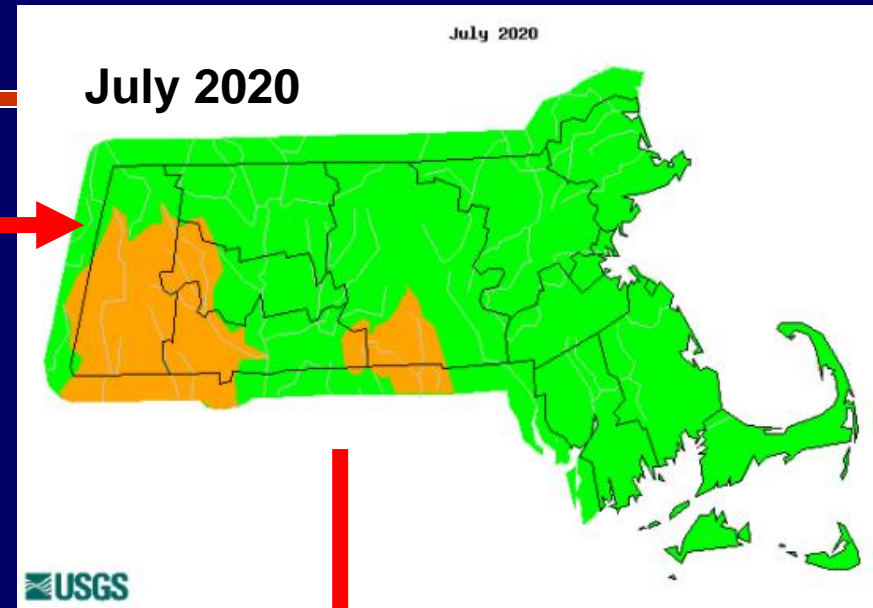
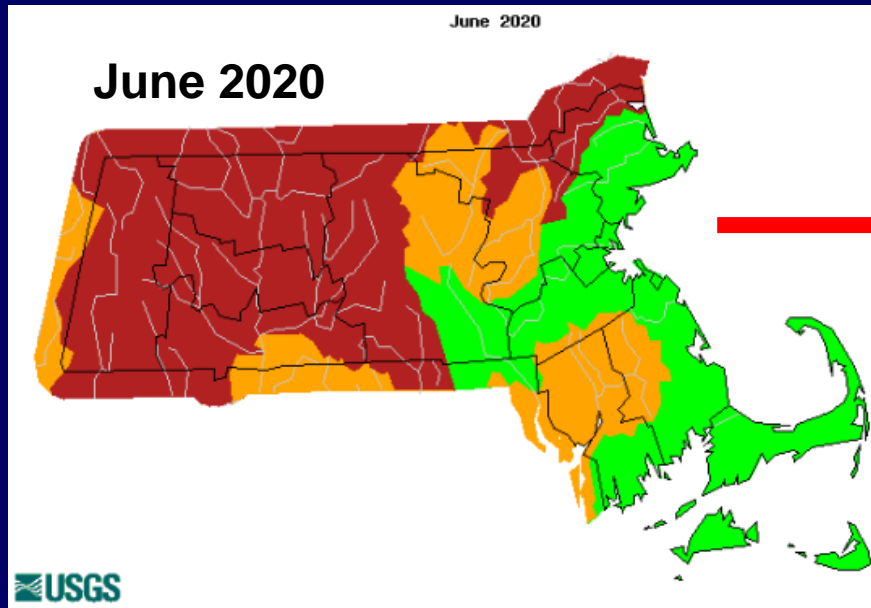
R.J. Verdi
U.S. Geological Survey
New England Water Science Center



Average Streamflow Conditions – Feb-May 2020



Average Streamflow Conditions – June-Aug. 2020



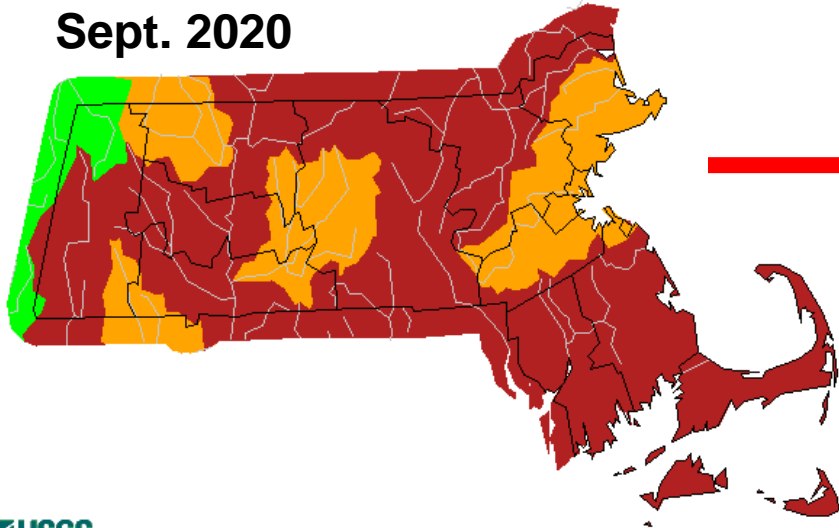
Explanation - Percentile classes

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

September 2020

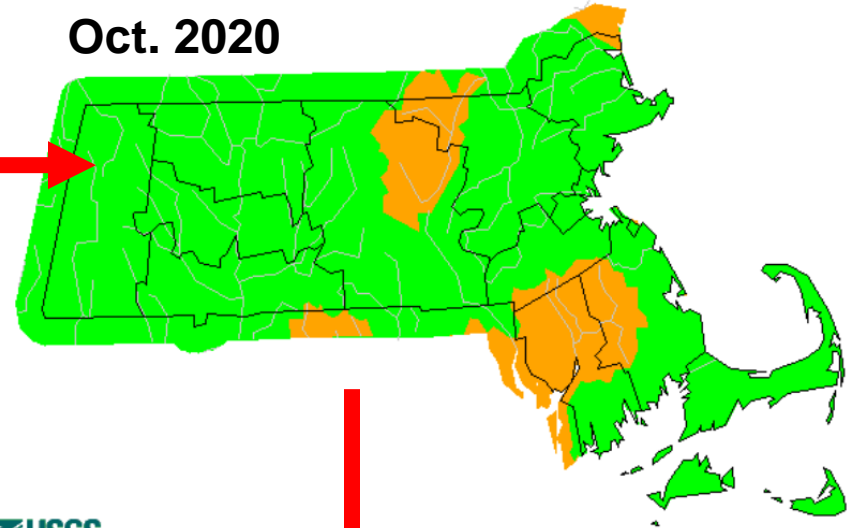
Sept. 2020



USGS

October 2020

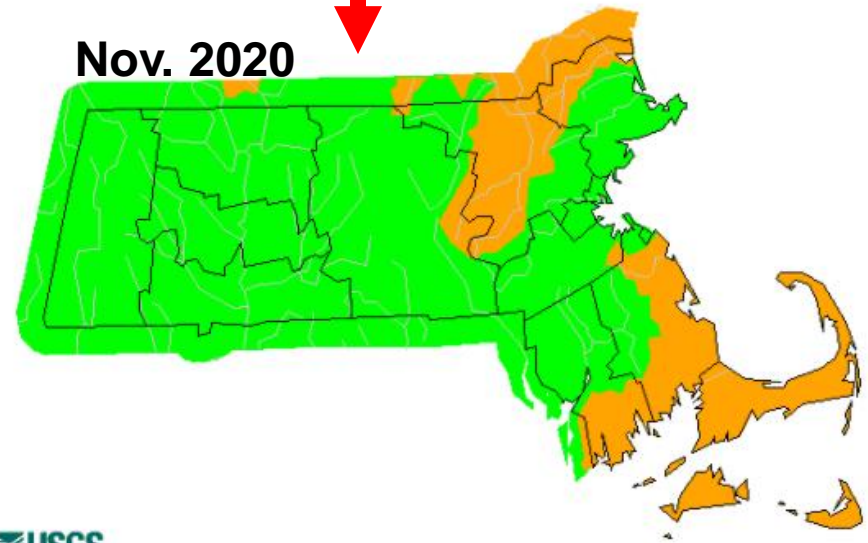
Oct. 2020



USGS

November 2020

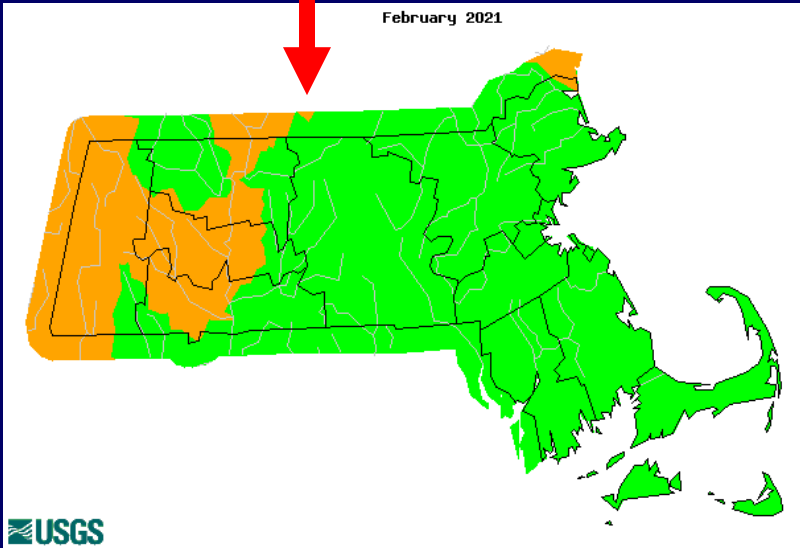
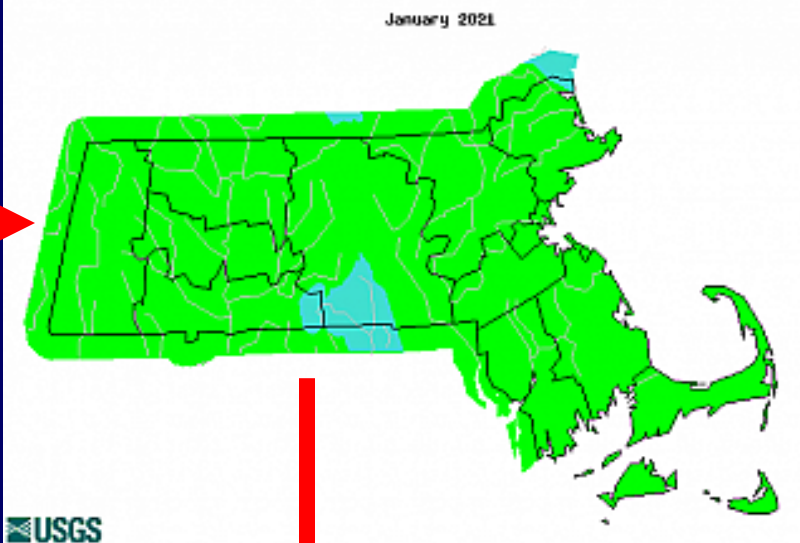
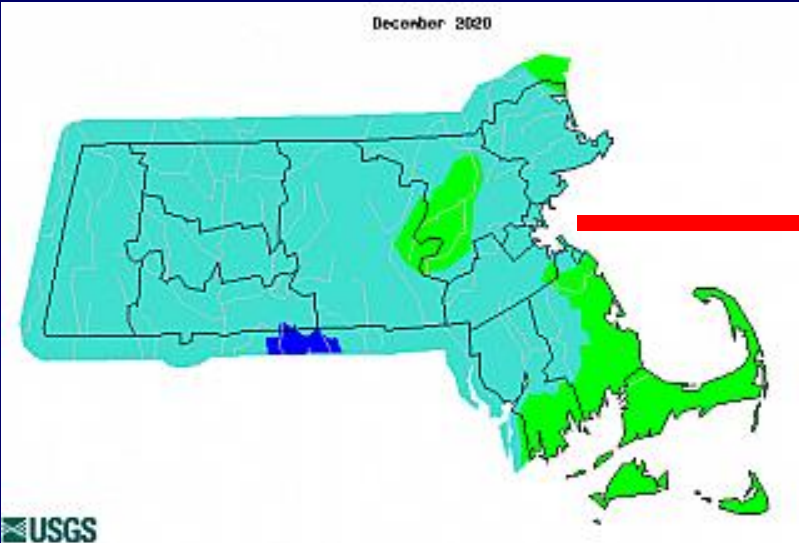
Nov. 2020



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

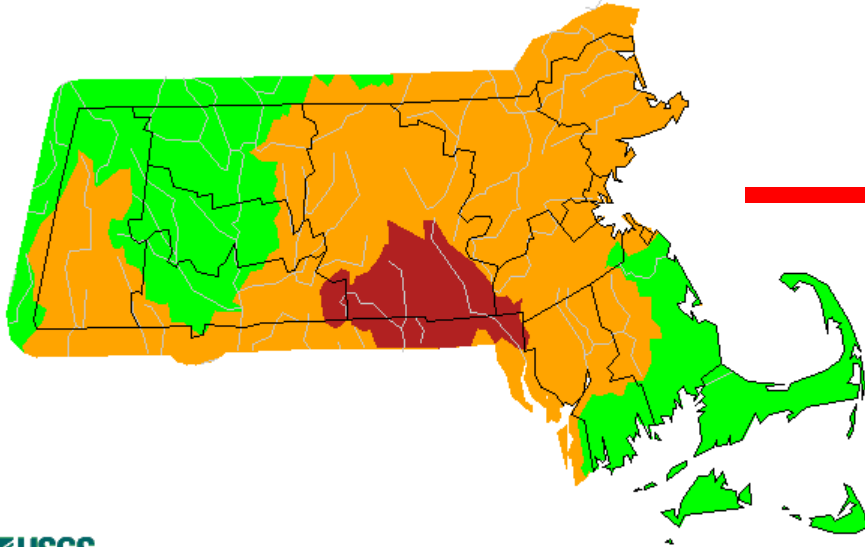


Explanation - Percentile classes

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

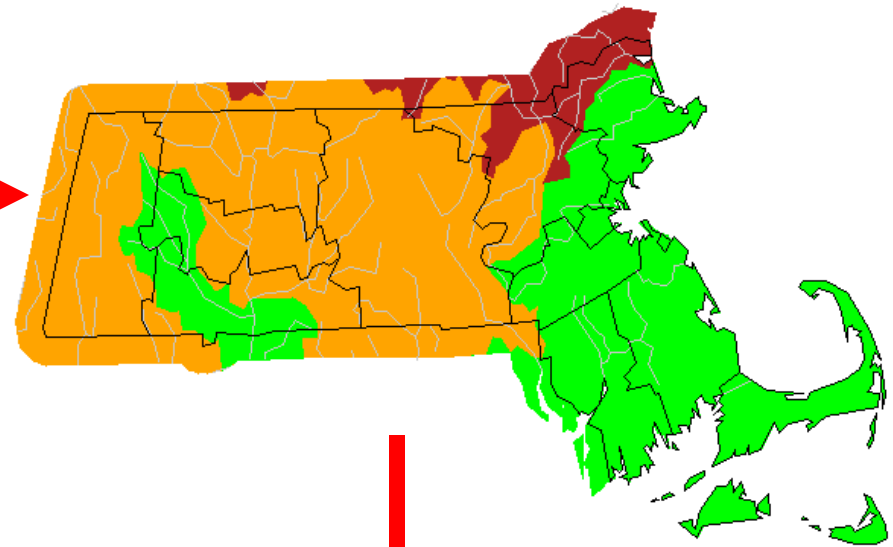
Average Streamflow Conditions – March-May 2021

March 2021



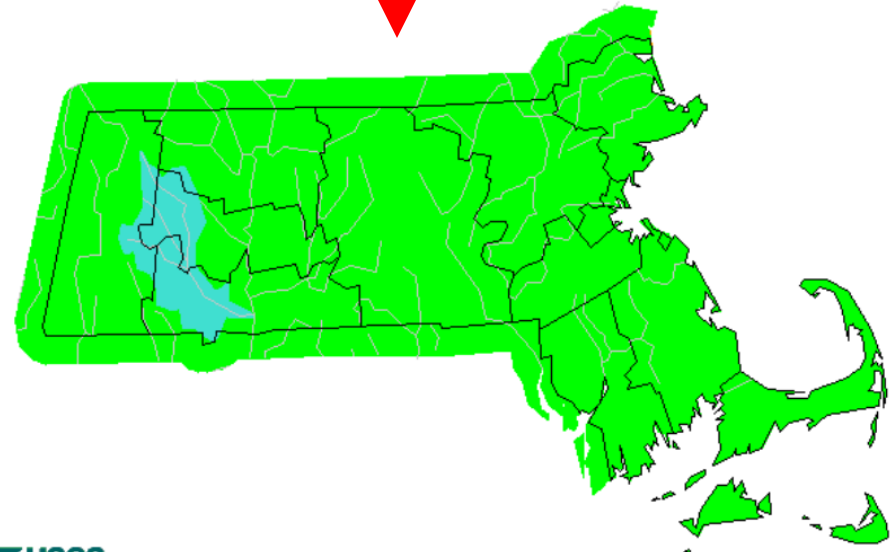
USGS

April 2021



USGS

May 2021

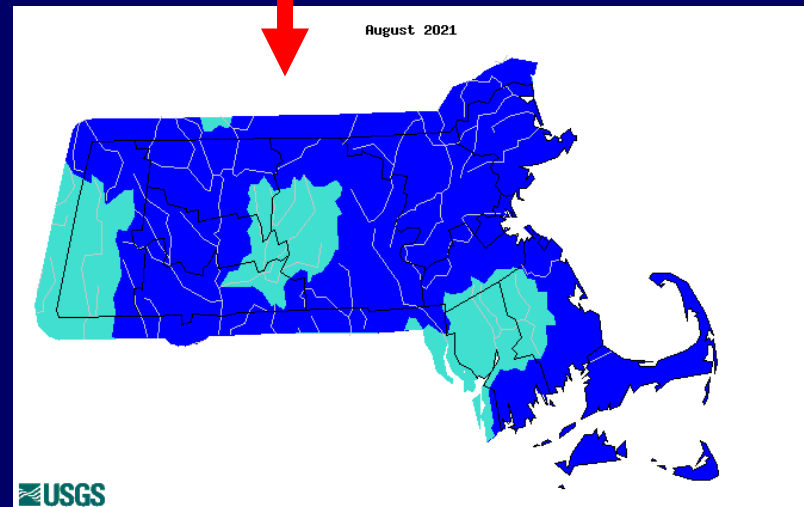
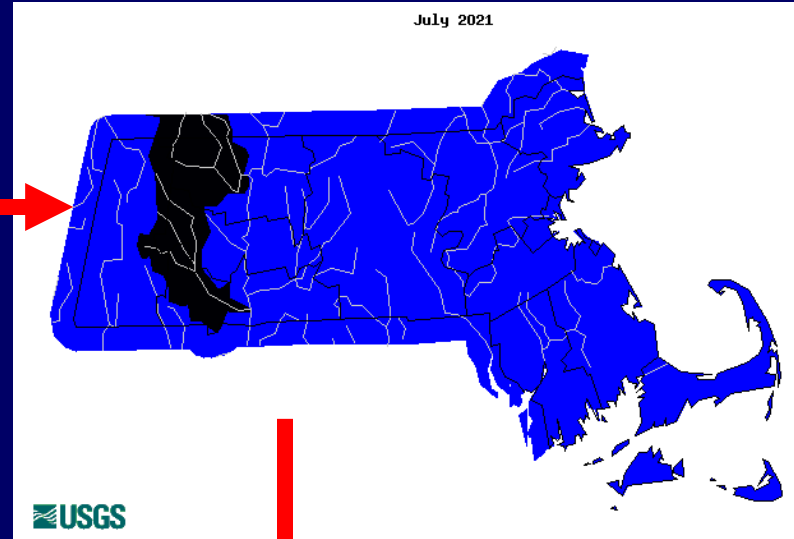
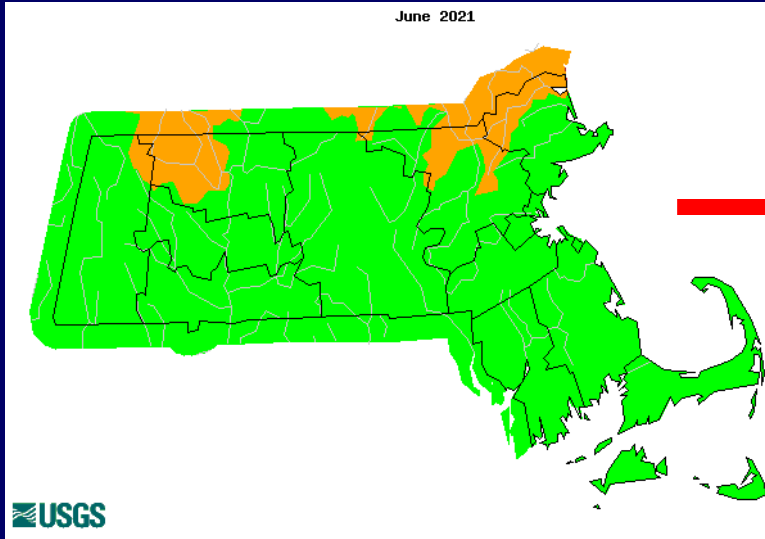


USGS

Explanation - Percentile classes

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

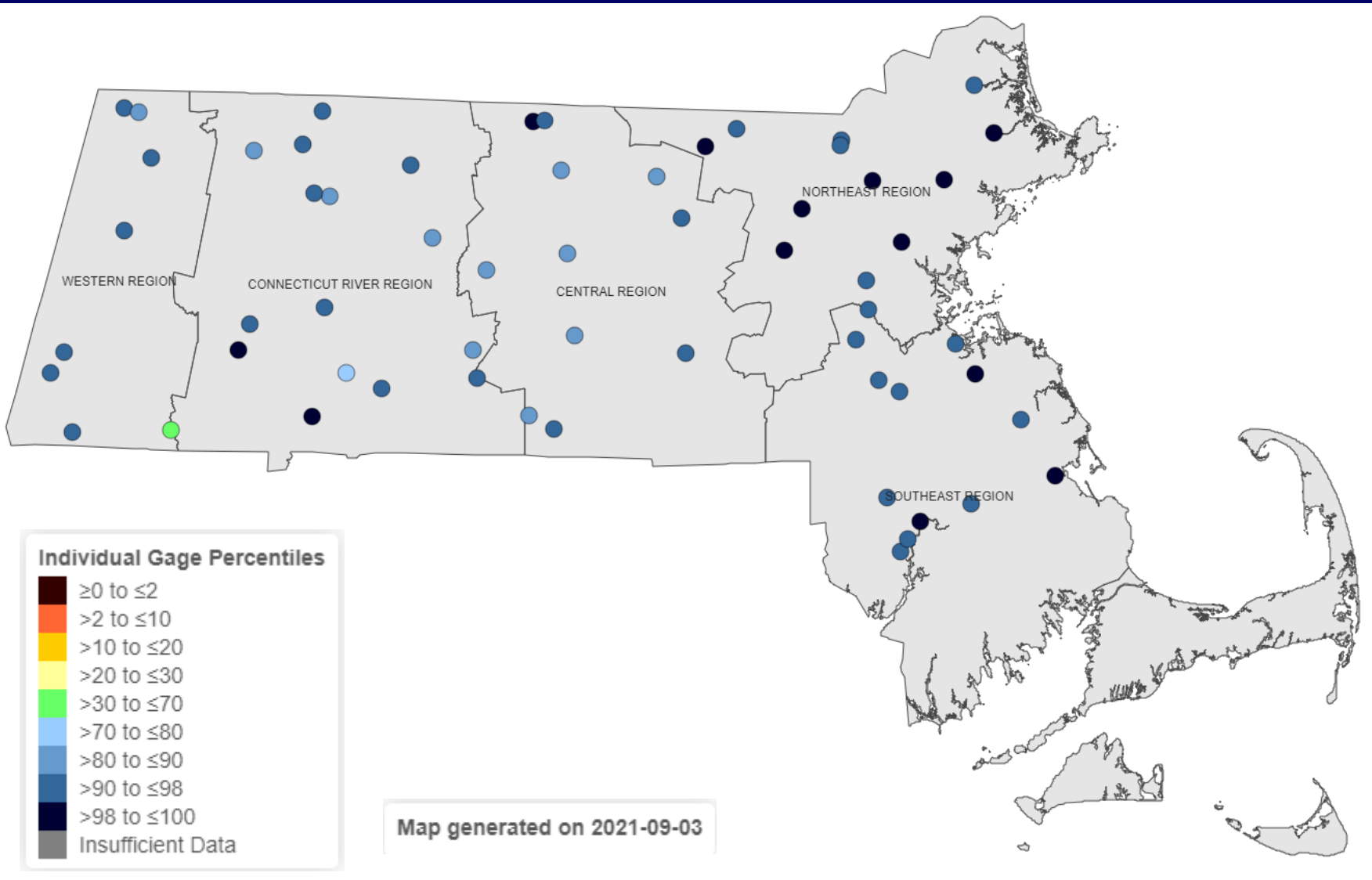
Average Streamflow Conditions – June-August 2021



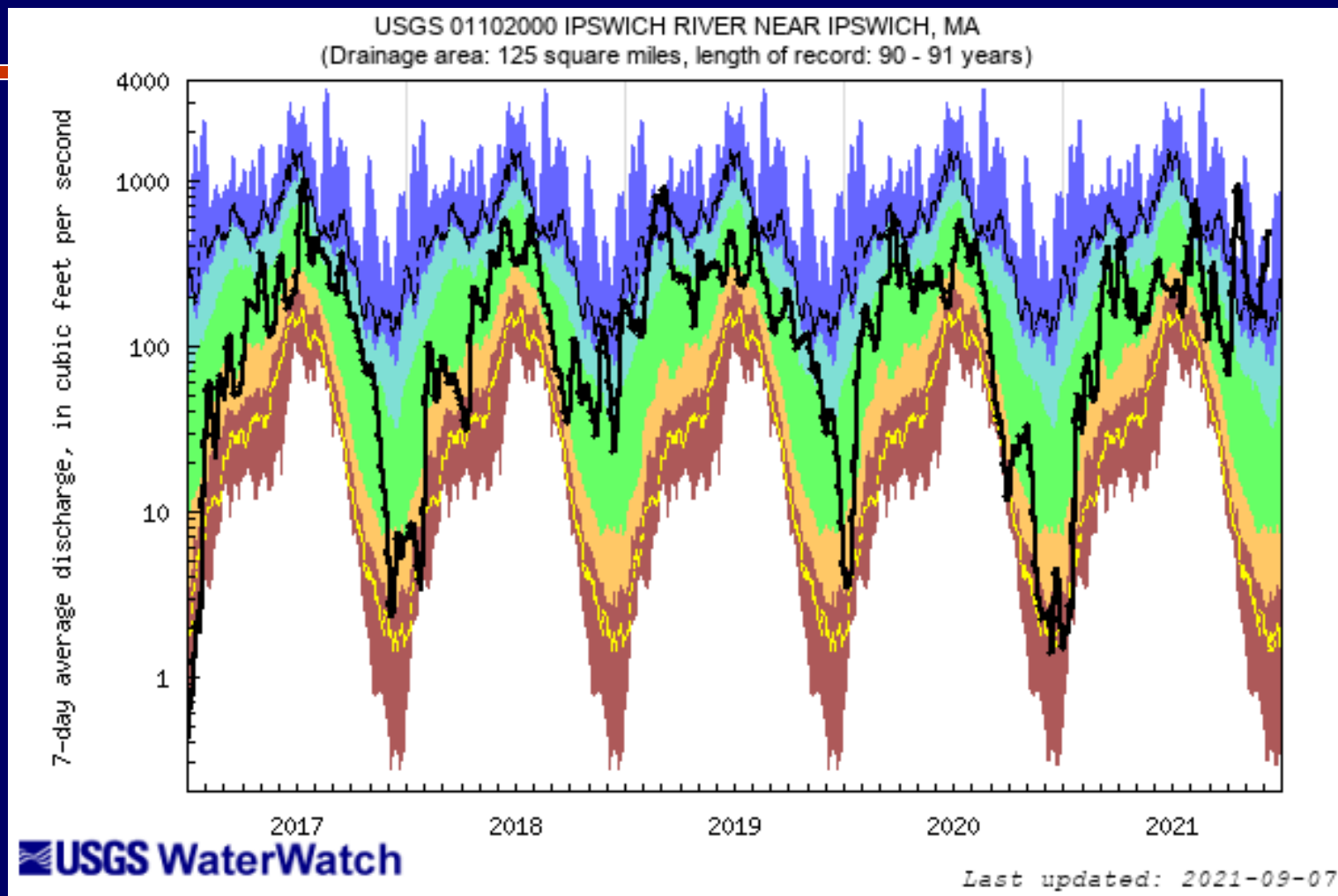
Explanation - Percentile classes

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

Streamflow Conditions – August 31, 2021

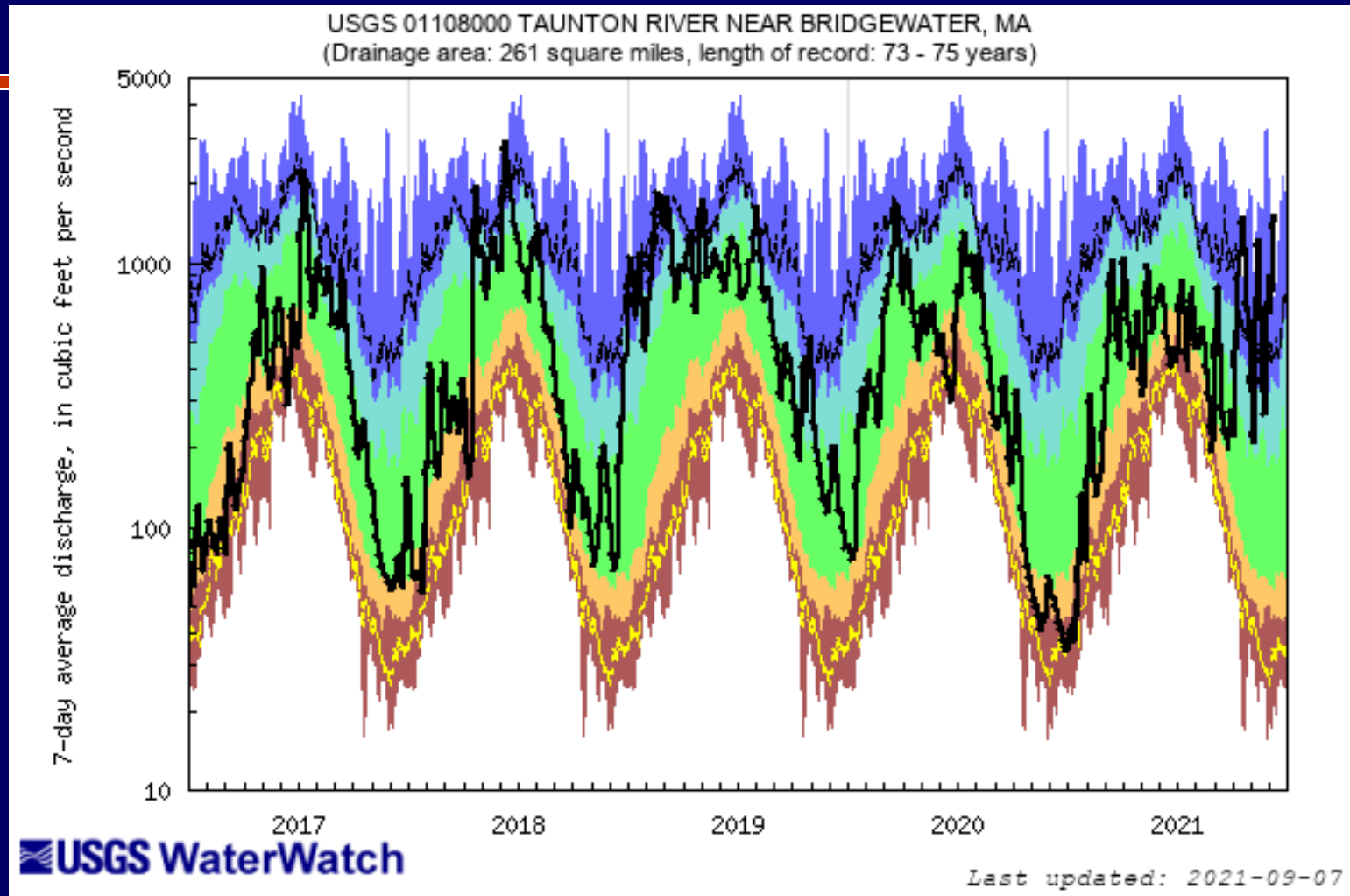


7-Day Avg. – Ipswich River – Northeastern MA



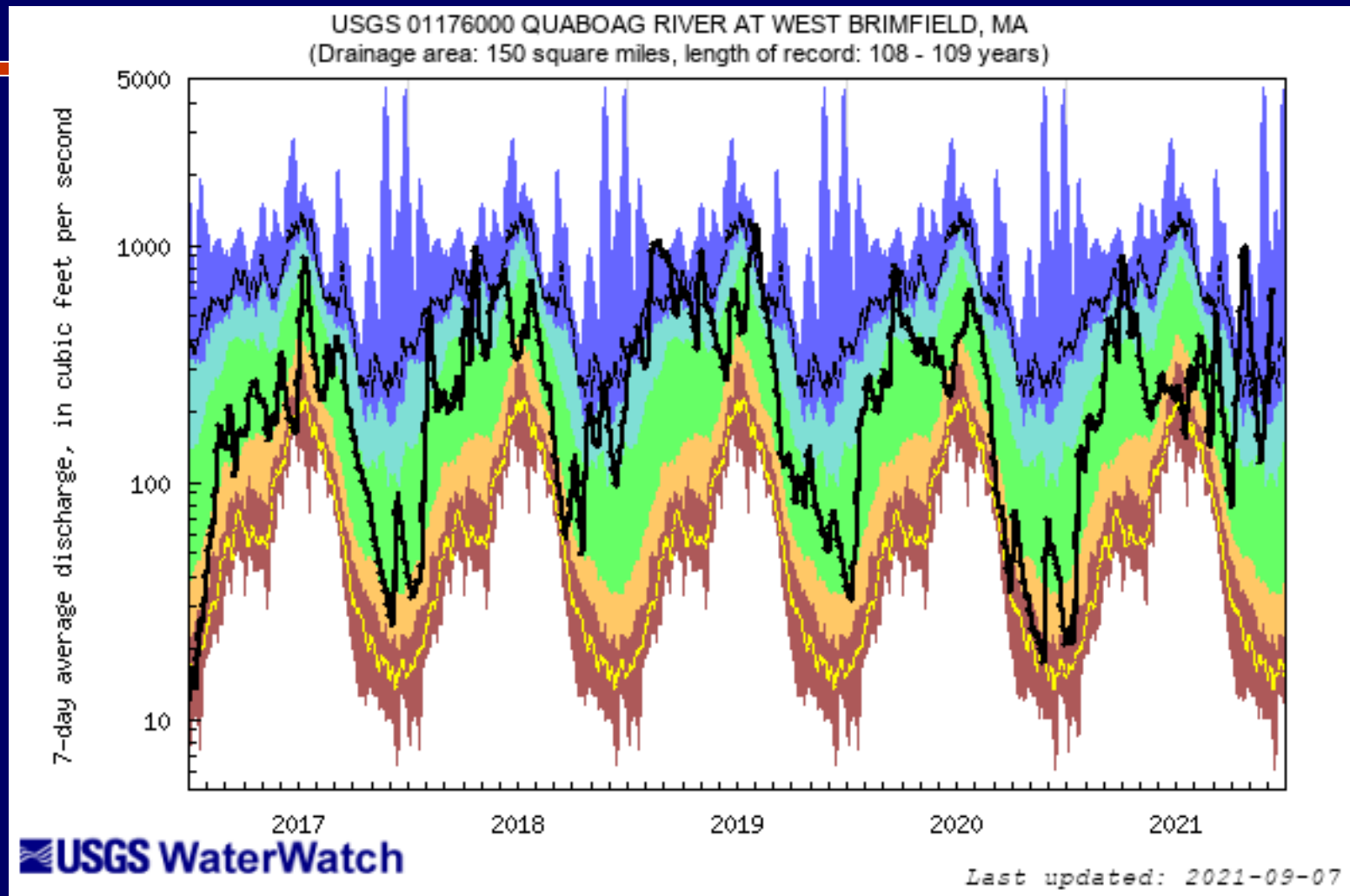
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

7-Day Avg. – Taunton River – Southeastern MA



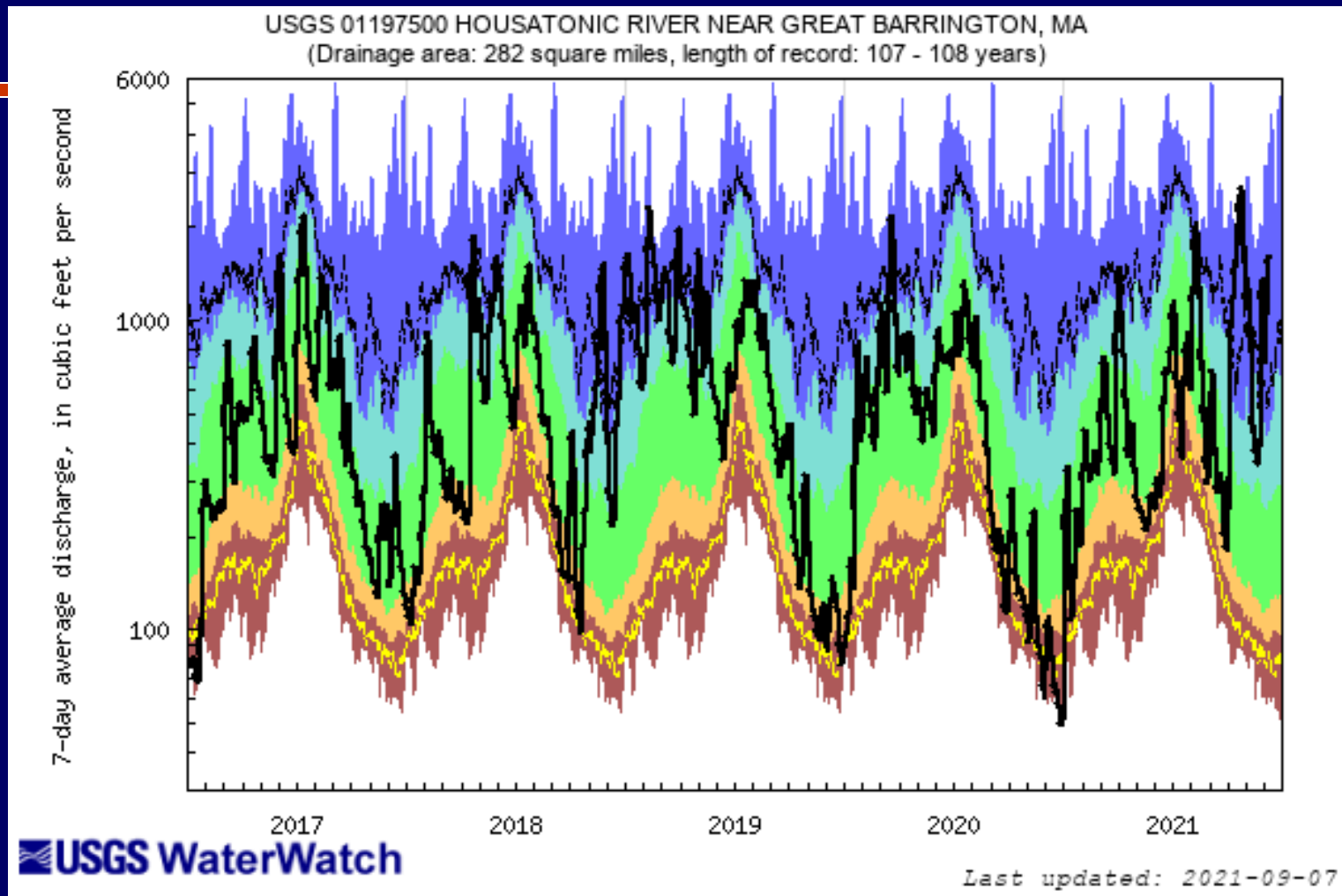
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

7-Day Avg. – Quaboag River – Central MA



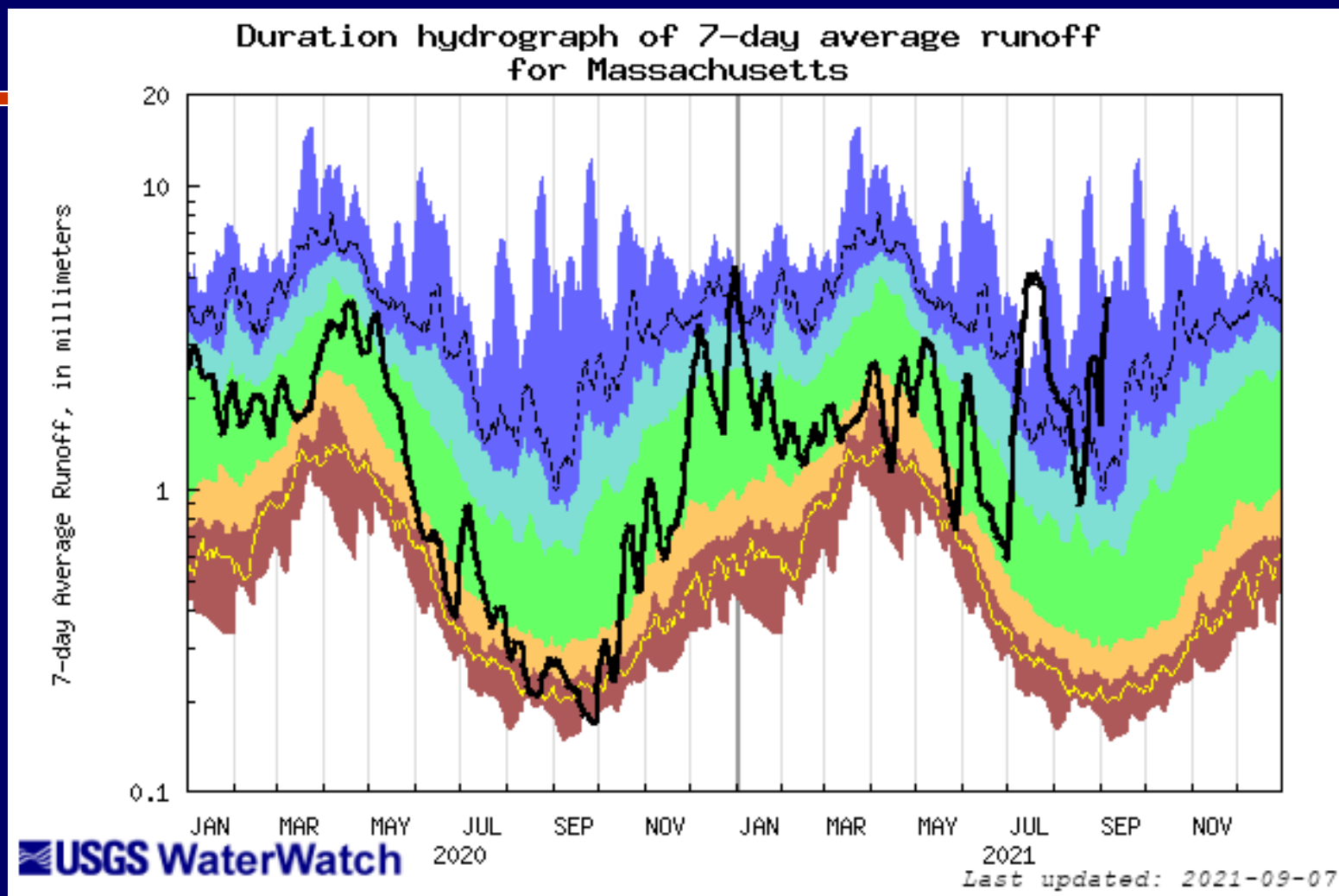
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

7-Day Avg. – Housatonic River – Western MA



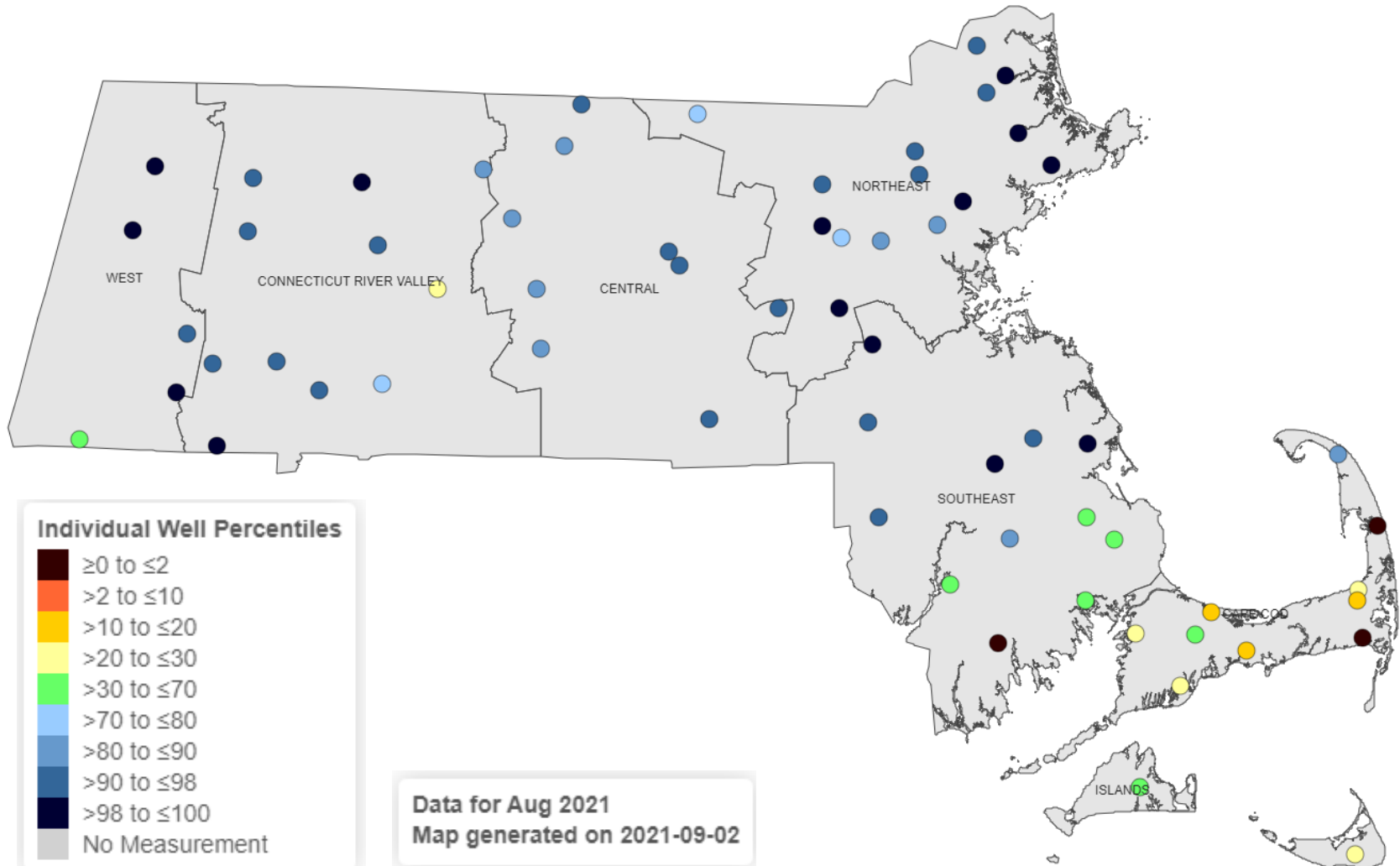
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile-highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

7-day Average Runoff– August 31, 2021



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

Groundwater Conditions – August 2021



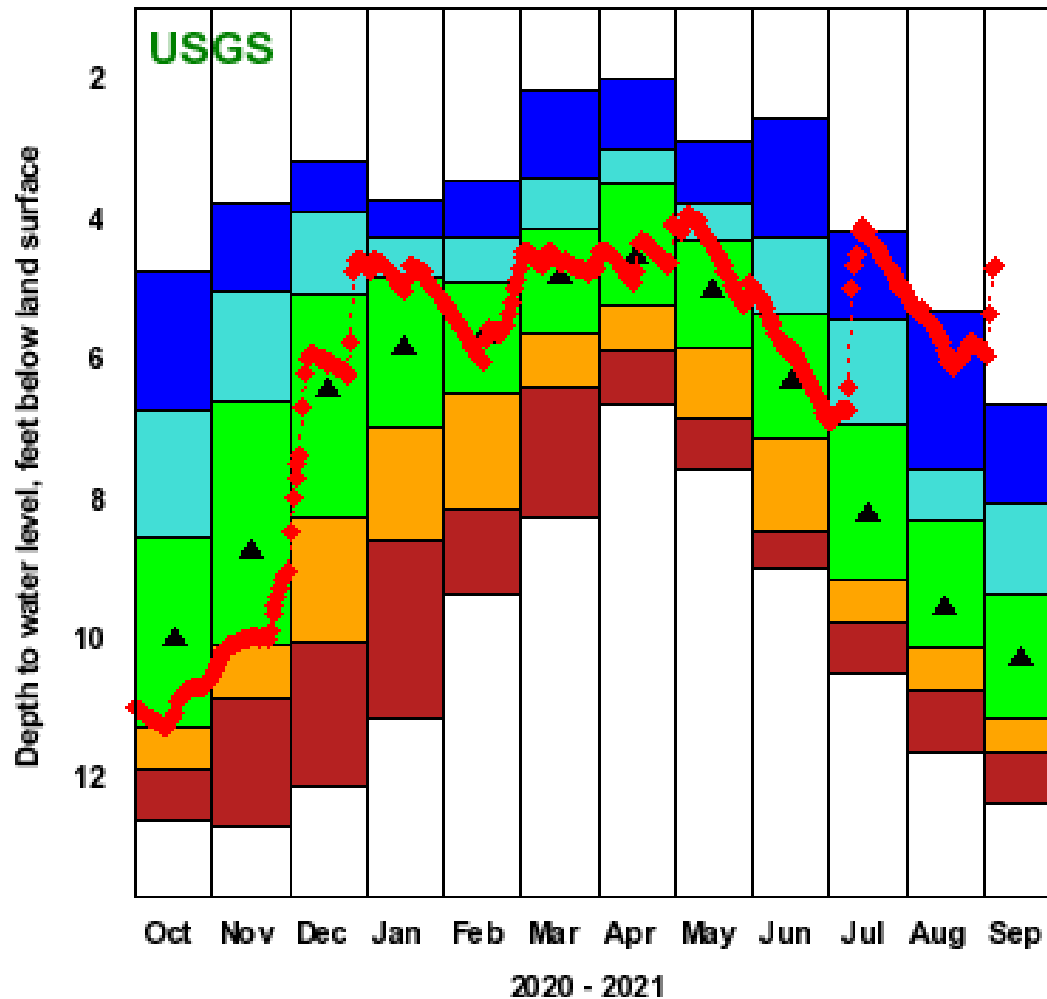
RT GW Conditions – Today, September 7, 2021



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		

4245 2007056240 1 - MA-NIW 27 NEWBURY, MA



Period of Record

All data
July 1959 – present

Continuous data
Oct. 1984 - present

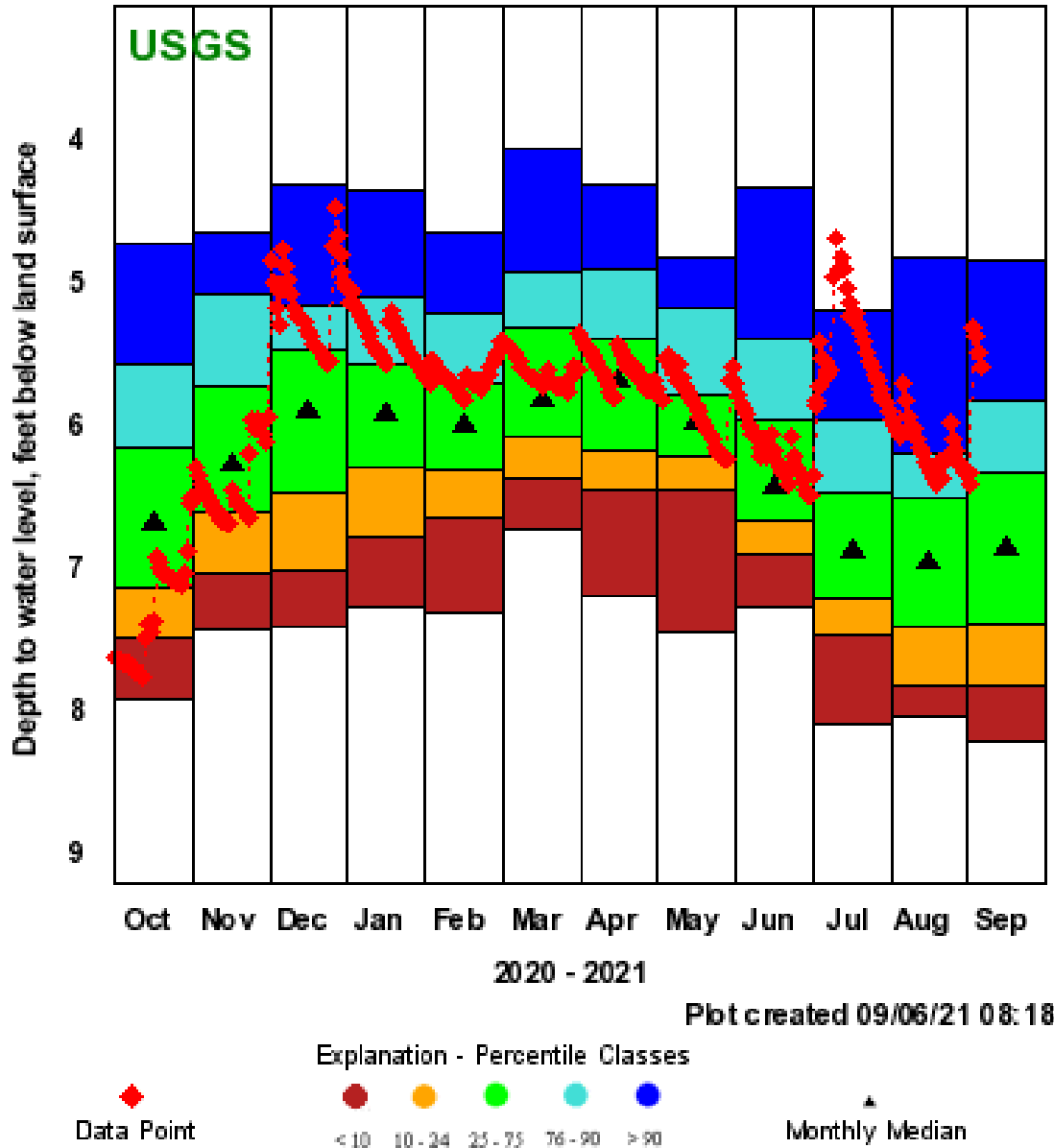
Explanation - Percentile Classes

◆ Data Point

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

▲ Monthly Median

420544071173701 - MA-NNW 27R NORFOLK, MA



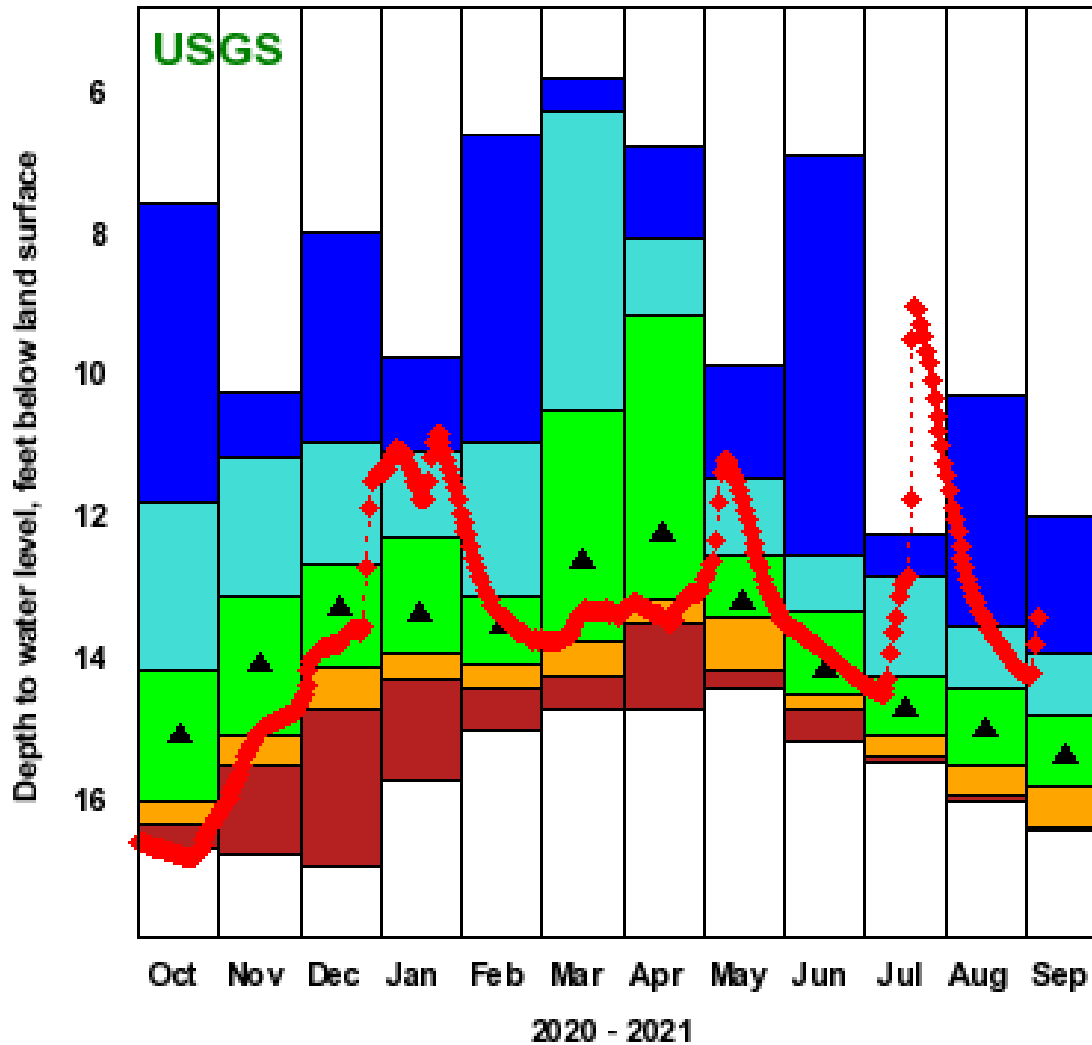
Period of Record

All data

Dec. 1964 – present

Continuous data

Aug. 2001 - present



Plot created 09/06/21 08:18

Explanation - Percentile Classes

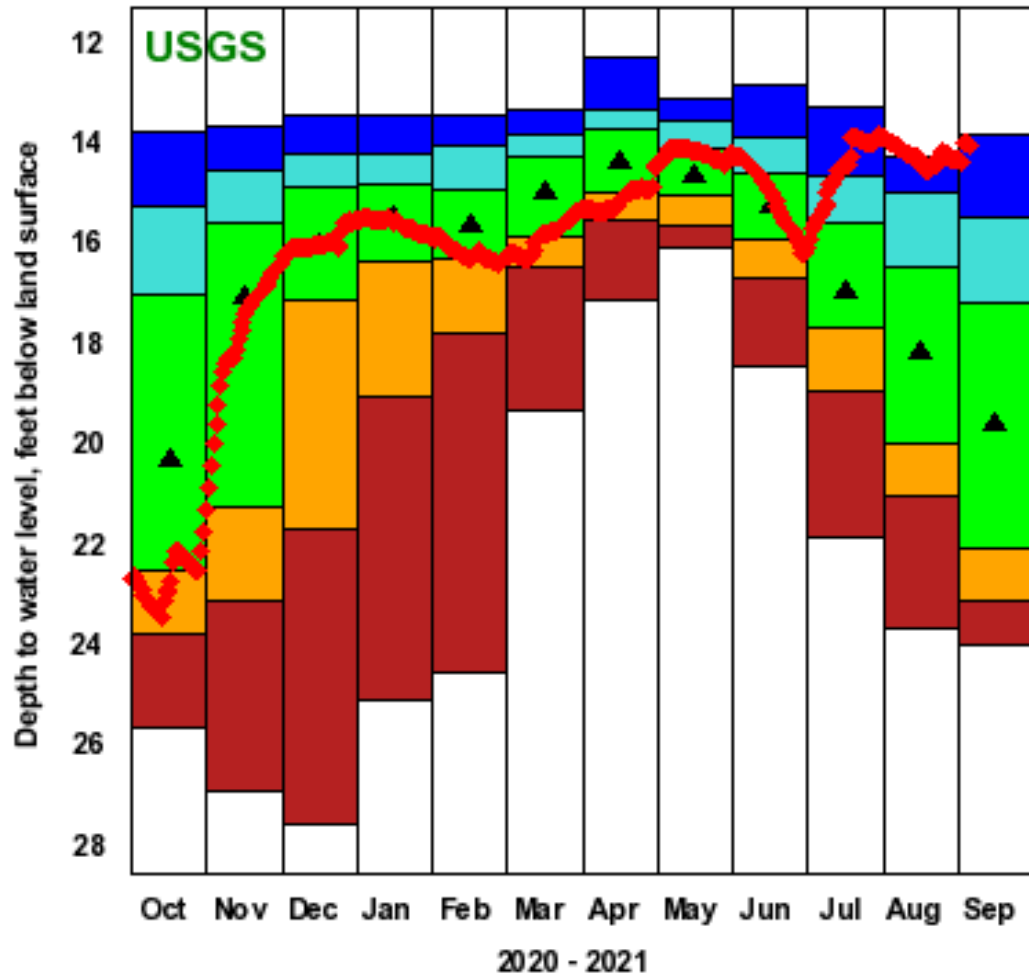


Period of Record

All data
Jan. 1984 – present

Continuous data
May 2012 - present

422745073112001 - MA-PTW 51 PITTSFIELD, MA



Period of Record

All data
Aug. 1963 – present

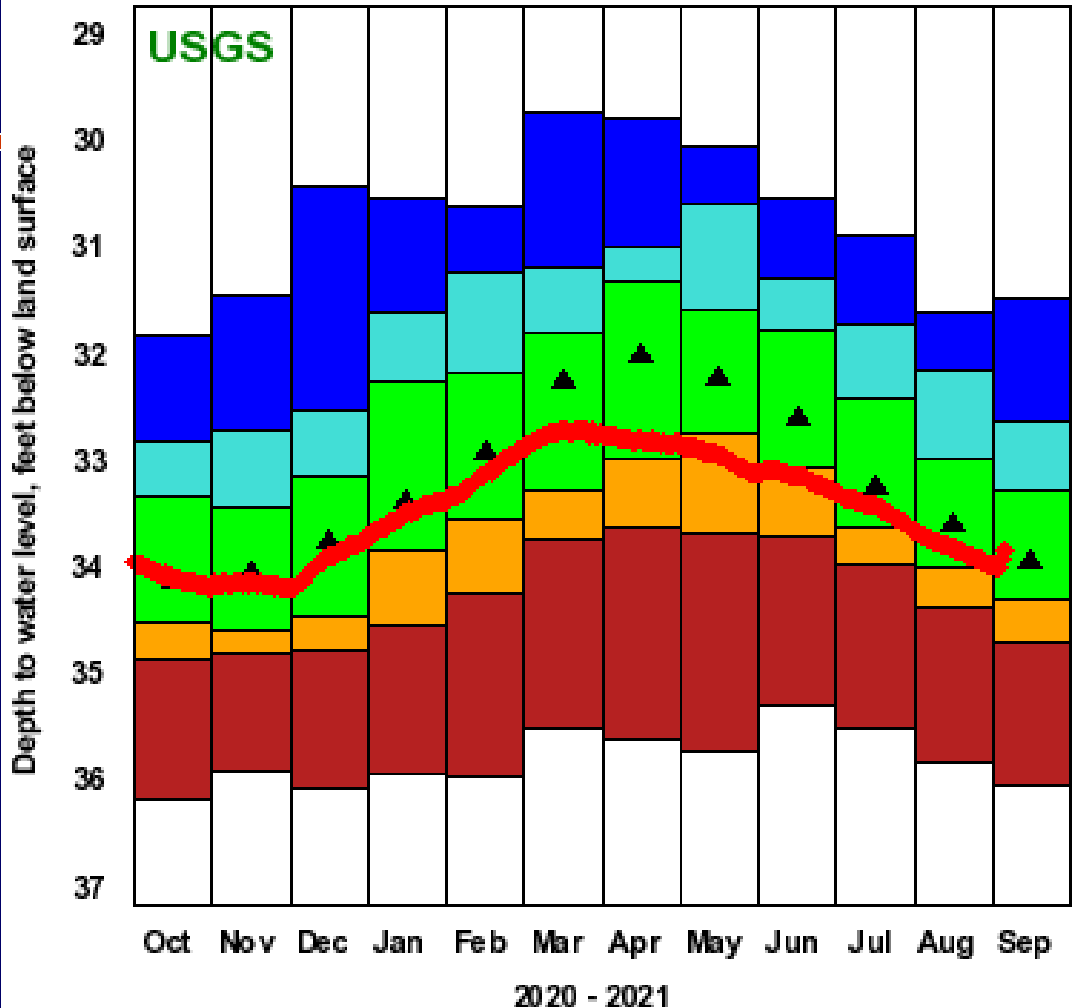
Continuous data
Oct. 1984 - present

◆ Data Point

● <10 ● 10-24 ● 25-75 ● 76-90 ● >90

▲ Monthly Median

414129070361401 - MA-BHW 198 BOURNE, MA



Plot created 09/06/21 08:17

Explanation - Percentile Classes

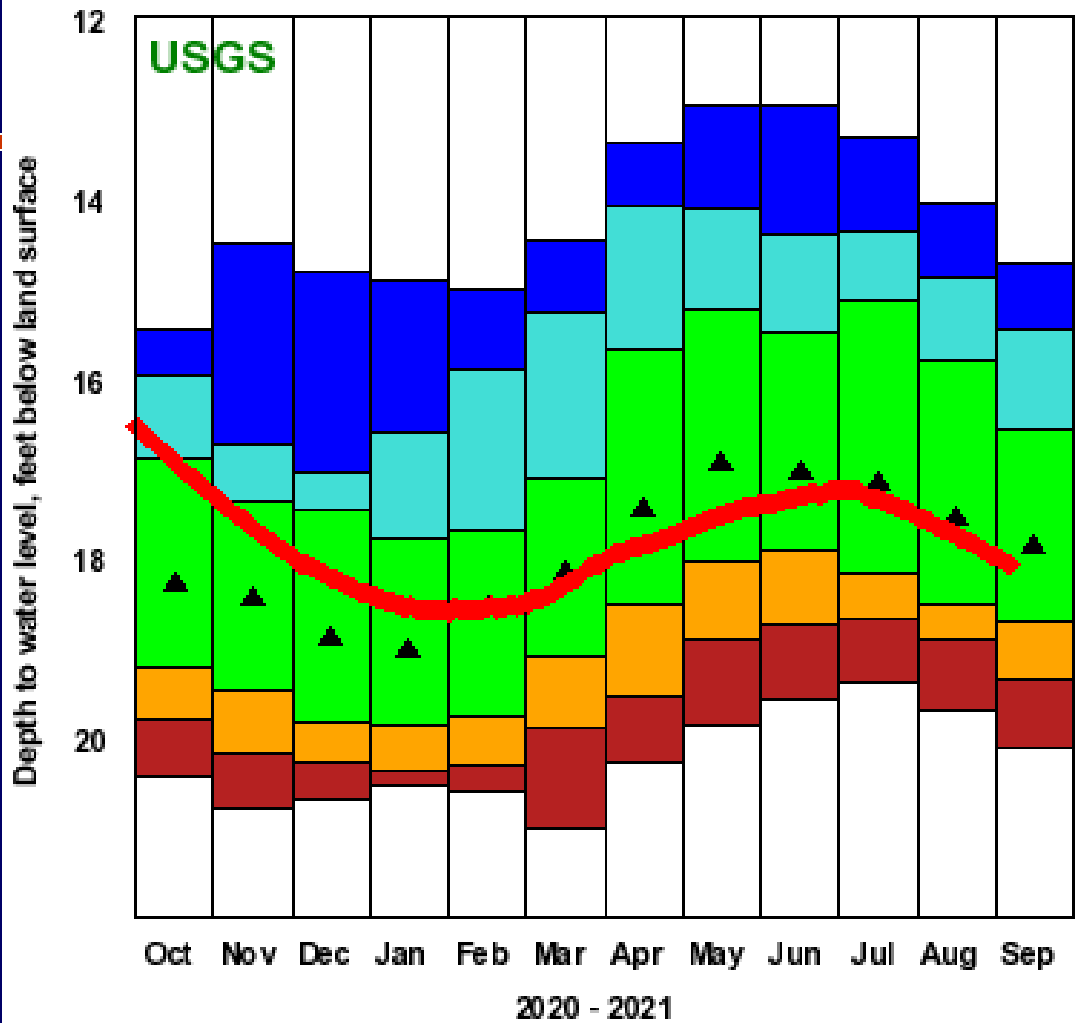
◆	●	●	●	●	▲	
Data Point	< 10	10 - 24	25 - 75	76 - 90	> 90	Monthly Median

Period of Record

All data
Nov. 29, 1962 – present

Continuous data
May 19, 2012 – present

412346070353403 - MA-ENW 52 EDGARTOWN, MA



Plot created 09/06/21 08:16

Explanation - Percentile Classes

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

Period of Record

All data
Dec. 16, 1976 – present

Continuous data
May 14, 2019 - present

Questions
