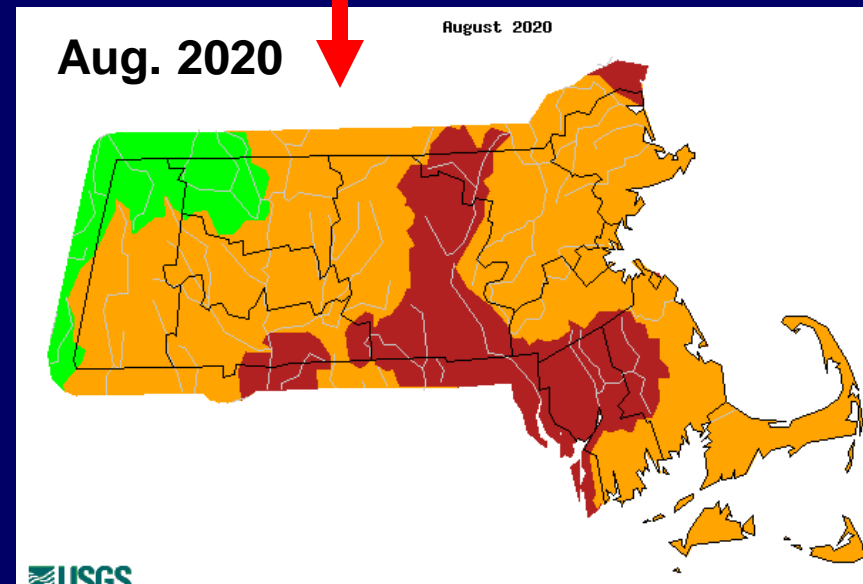
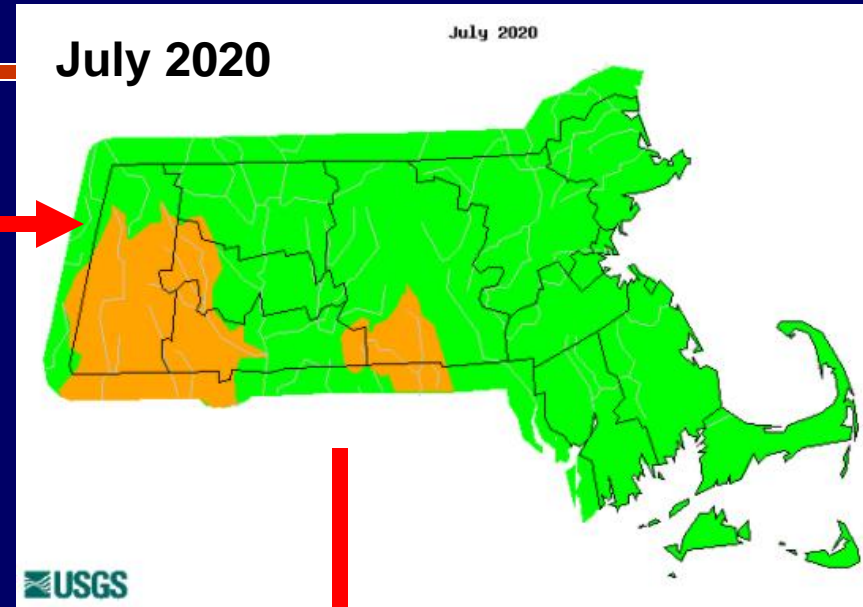
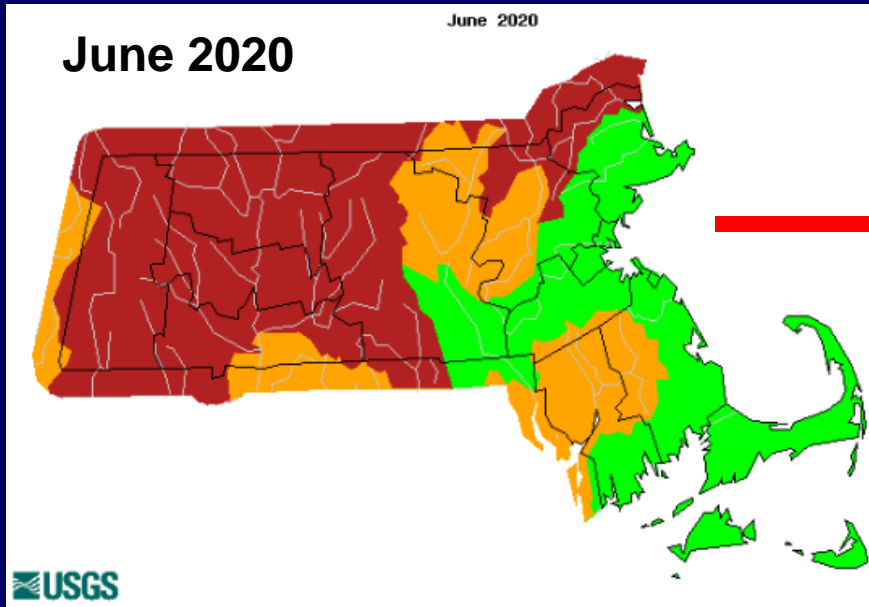

Streamflow and Groundwater Conditions in Massachusetts

July 7, 2021

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



Average Streamflow Conditions – June-Aug. 2020



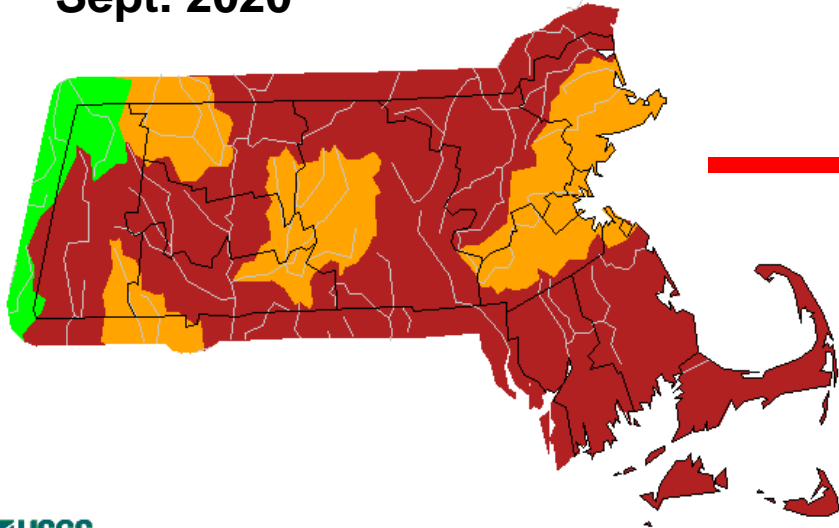
Explanation - Percentile classes

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

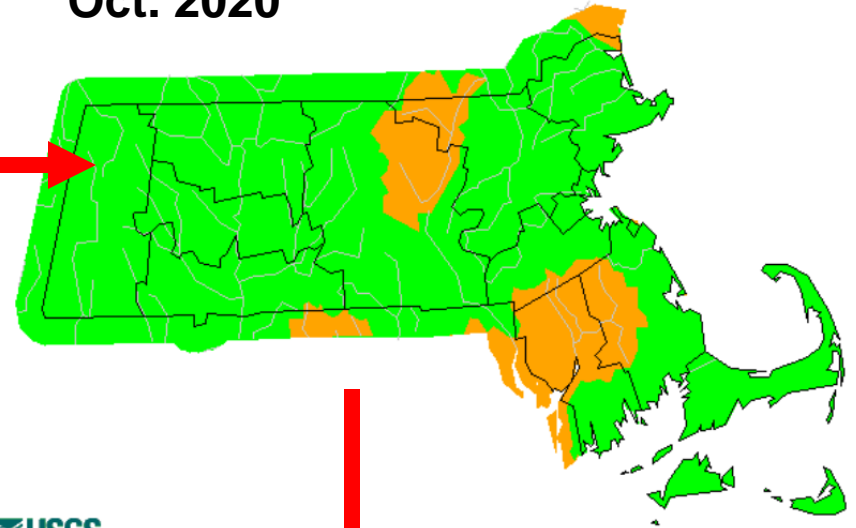
September 2020



USGS

Oct. 2020

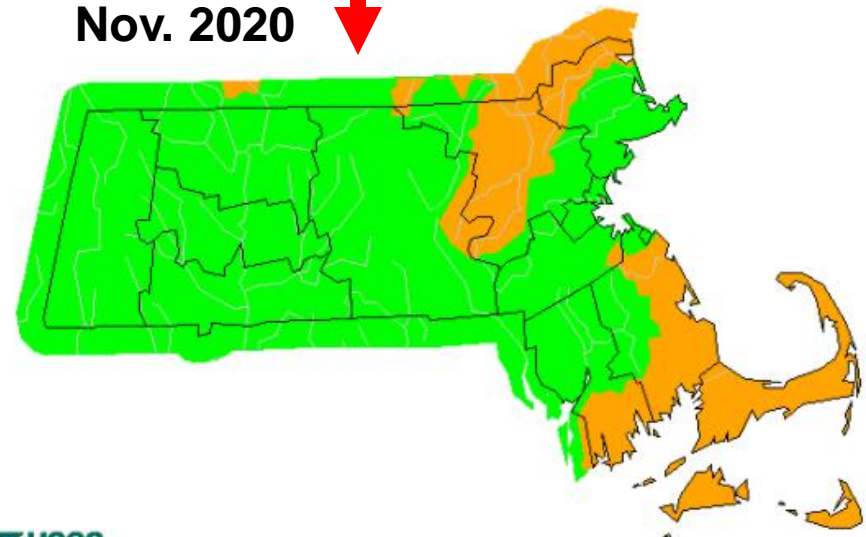
October 2020



USGS

Nov. 2020

November 2020

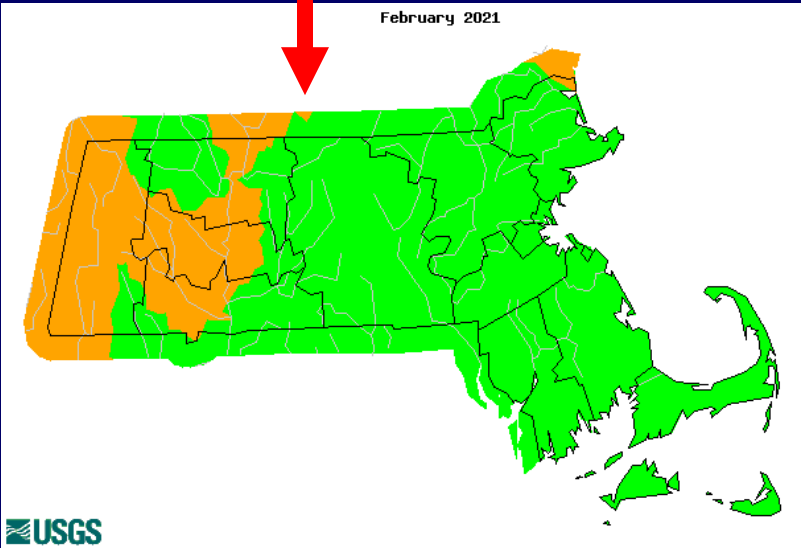
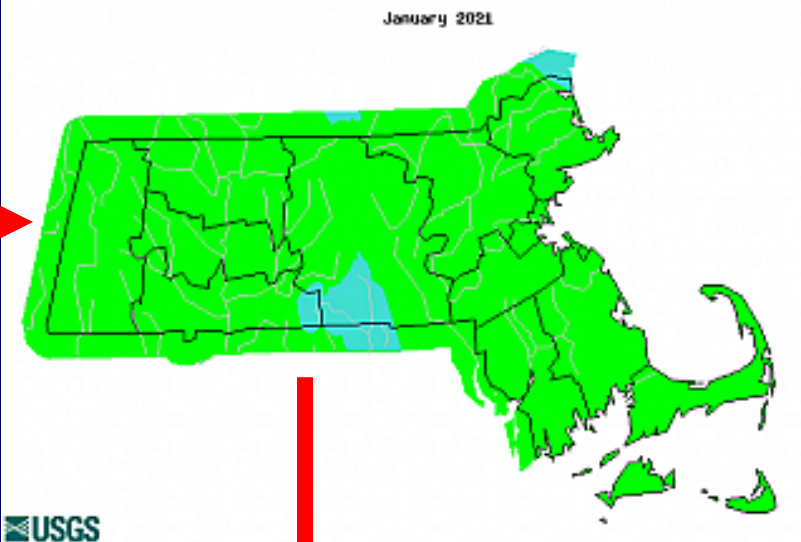
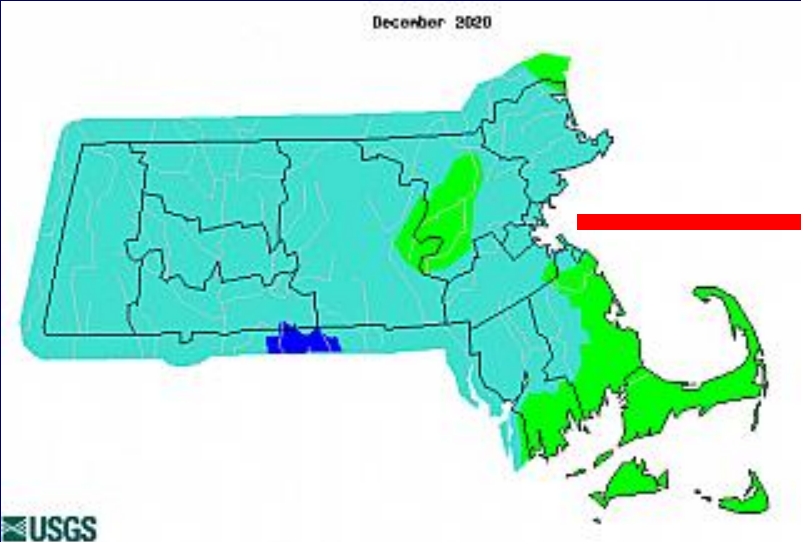


USGS

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 – Dec. 2020 - Feb. 2021

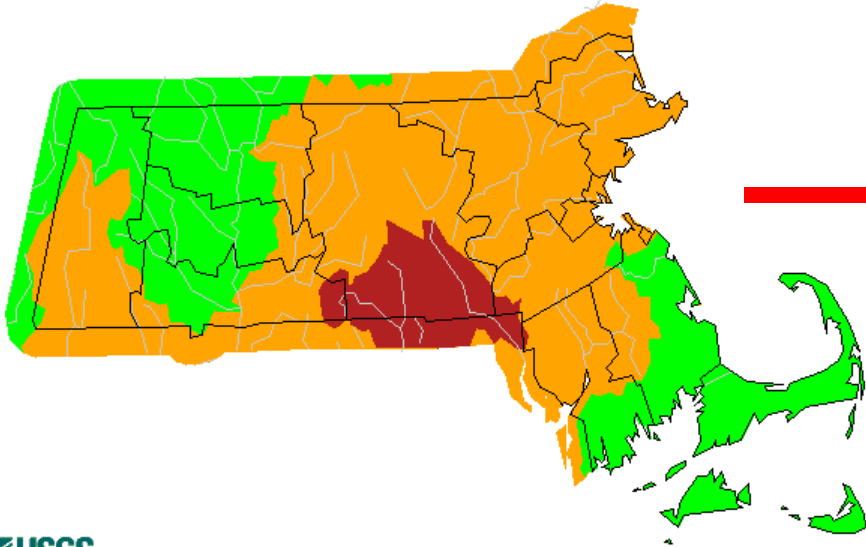


Explanation - Percentile classes

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

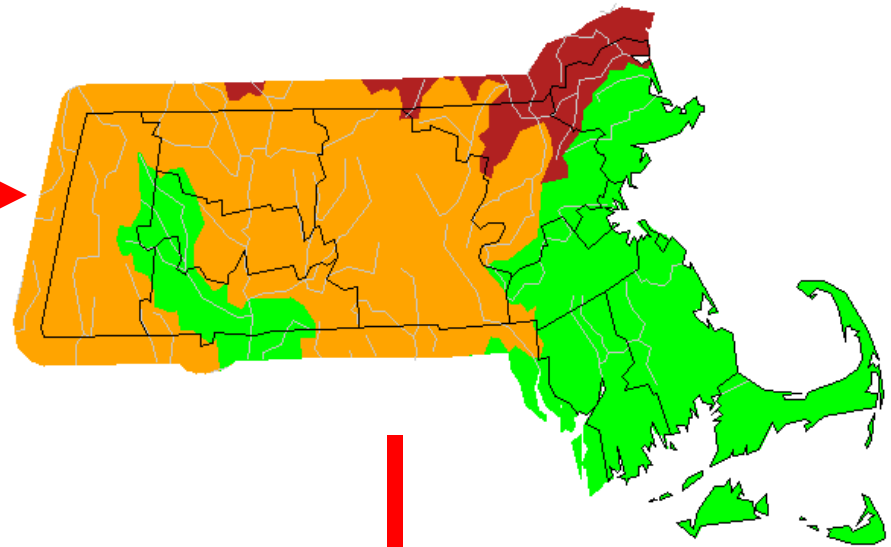
Average Streamflow Conditions – March-May 2021

March 2021



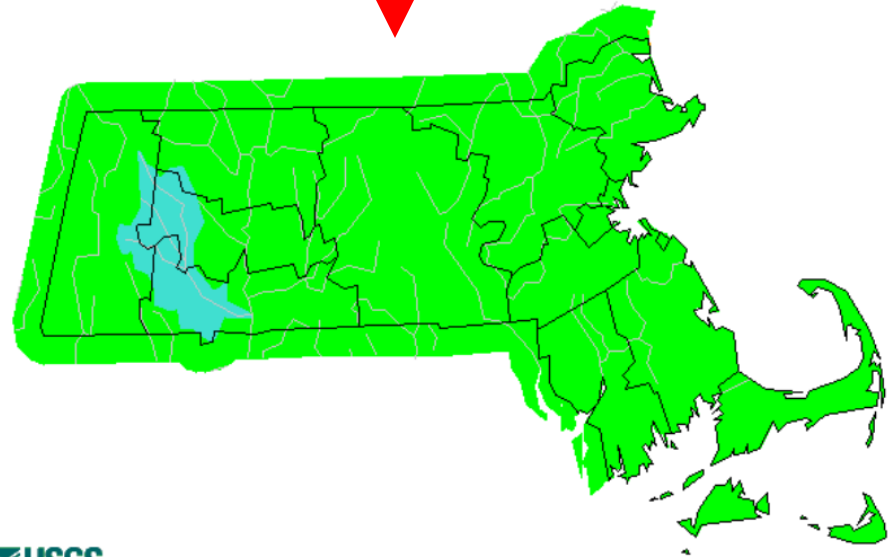
USGS

April 2021



USGS

May 2021



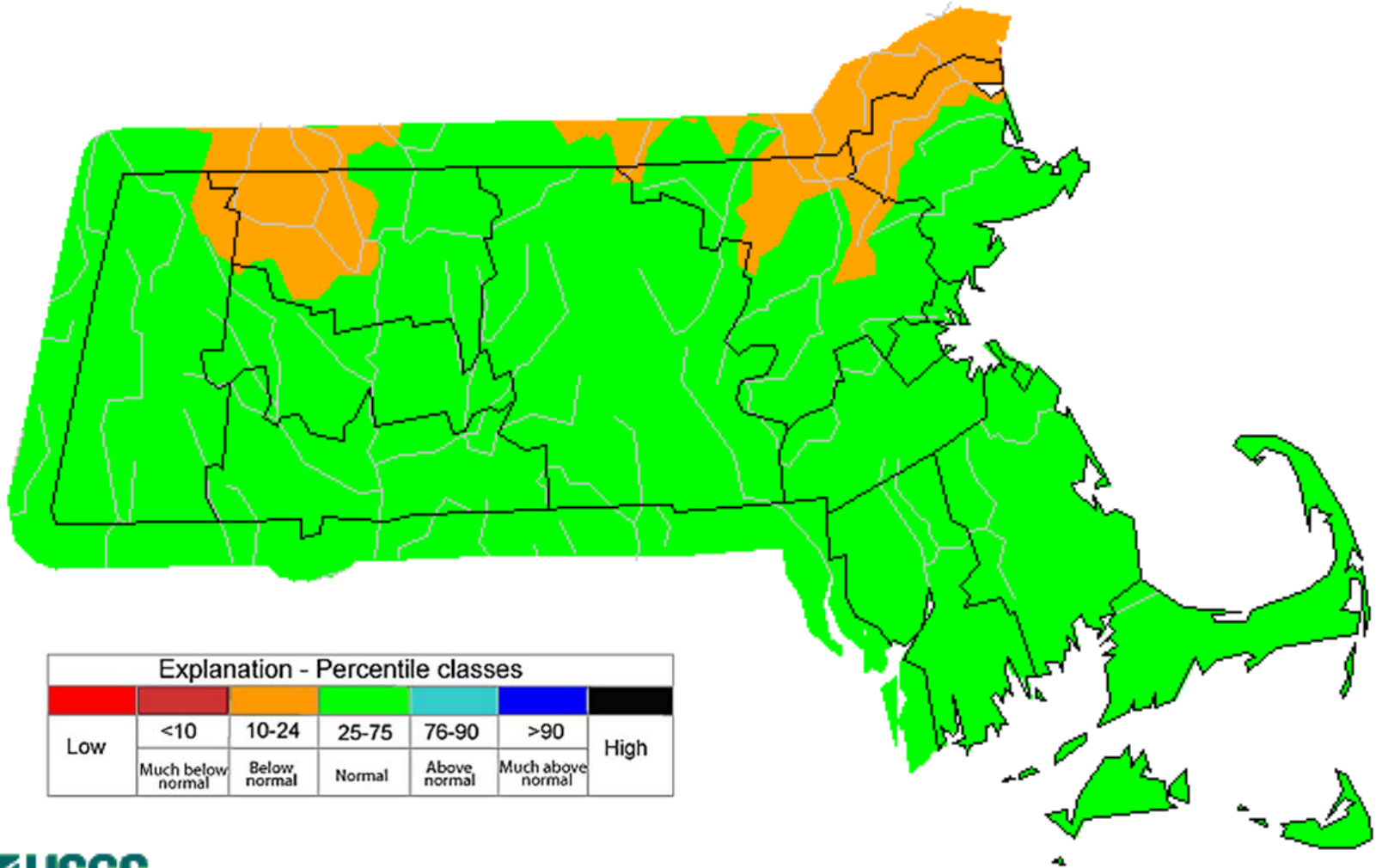
USGS

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 2021

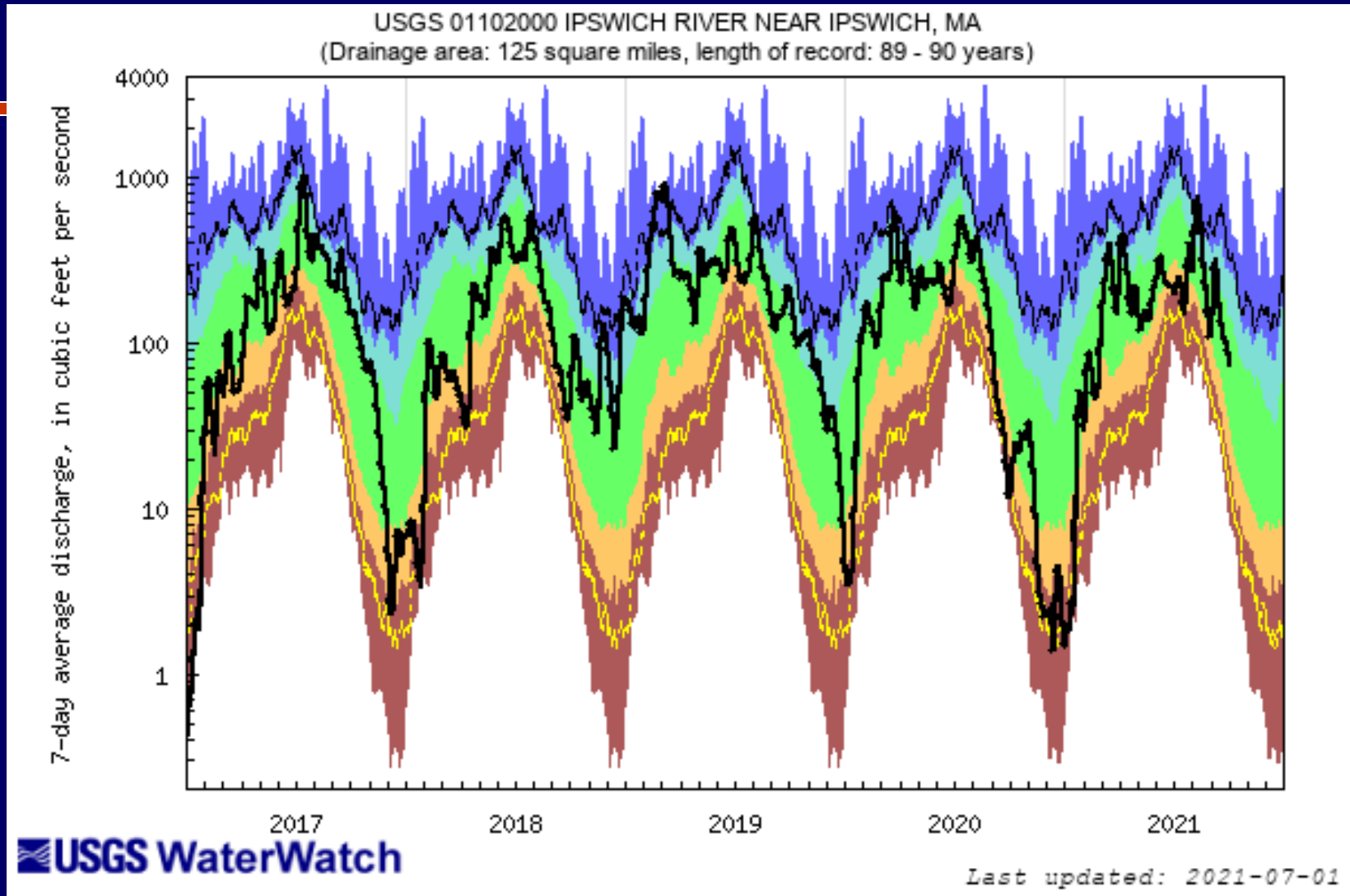
June 2021



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

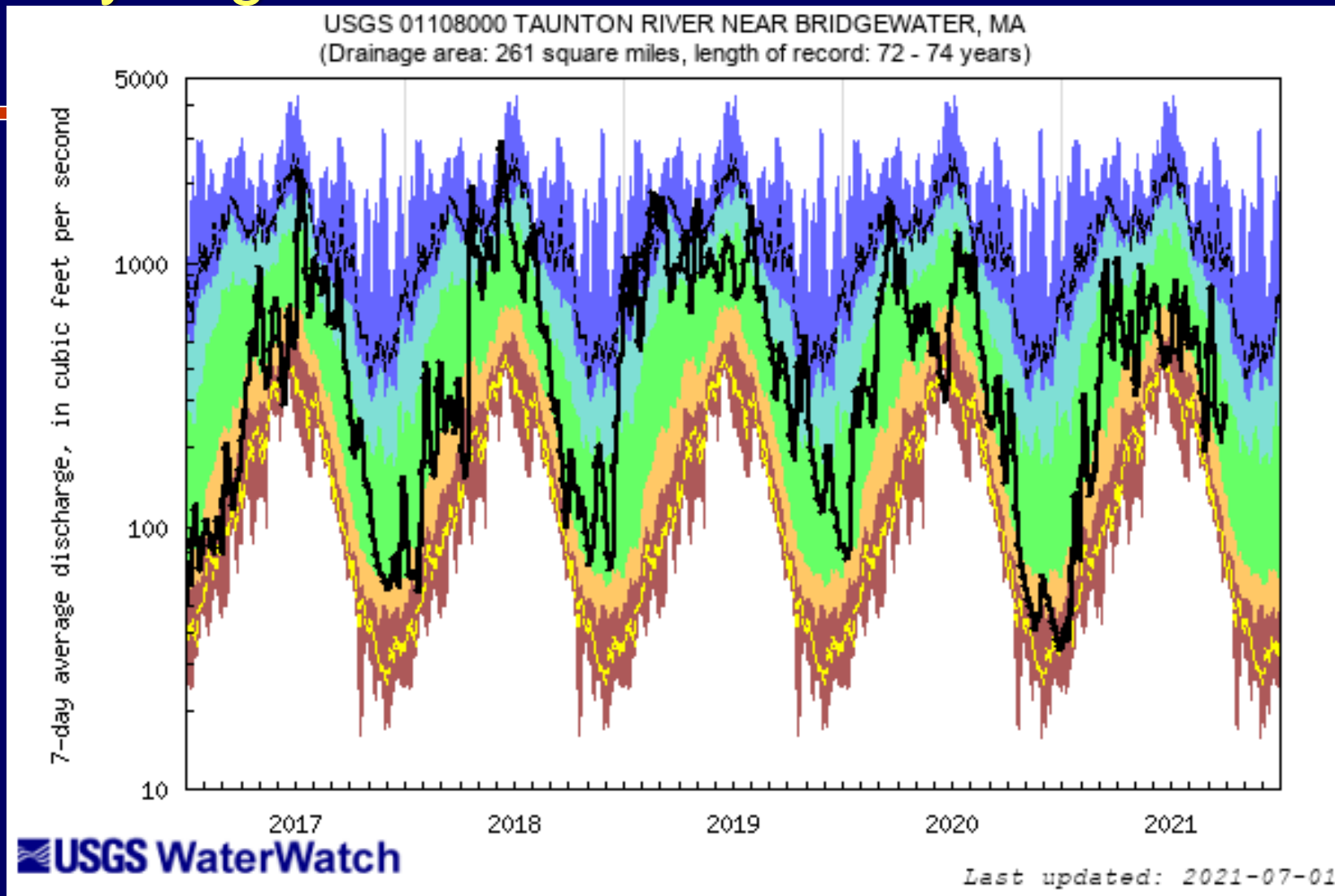


7-Day Avg. – Ipswich River – Northeastern MA



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

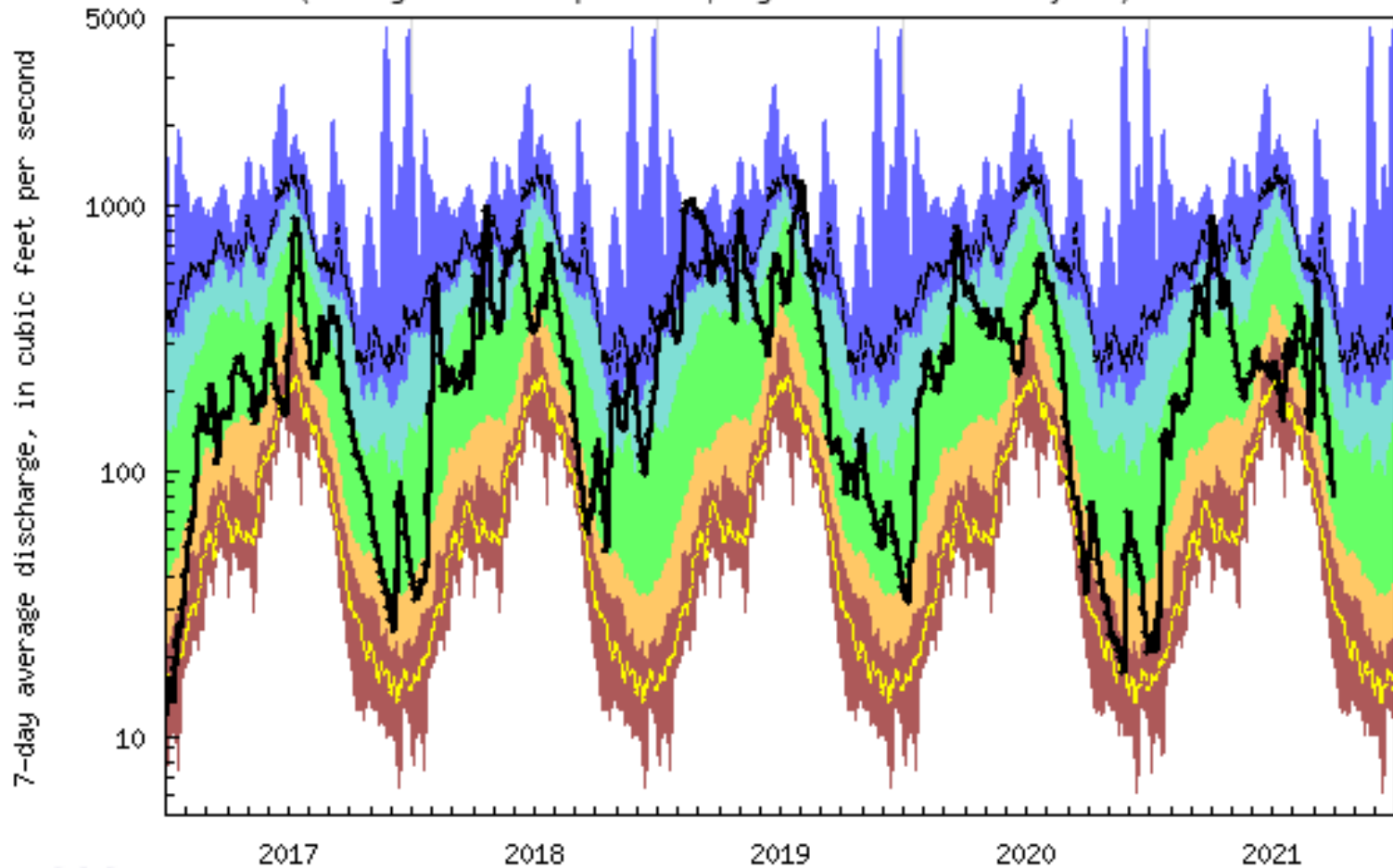
7-Day Avg. – Taunton River – Southeastern MA



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

USGS 01176000 QUABOAG RIVER AT WEST BRIMFIELD, MA
(Drainage area: 150 square miles, length of record: 107 - 108 years)



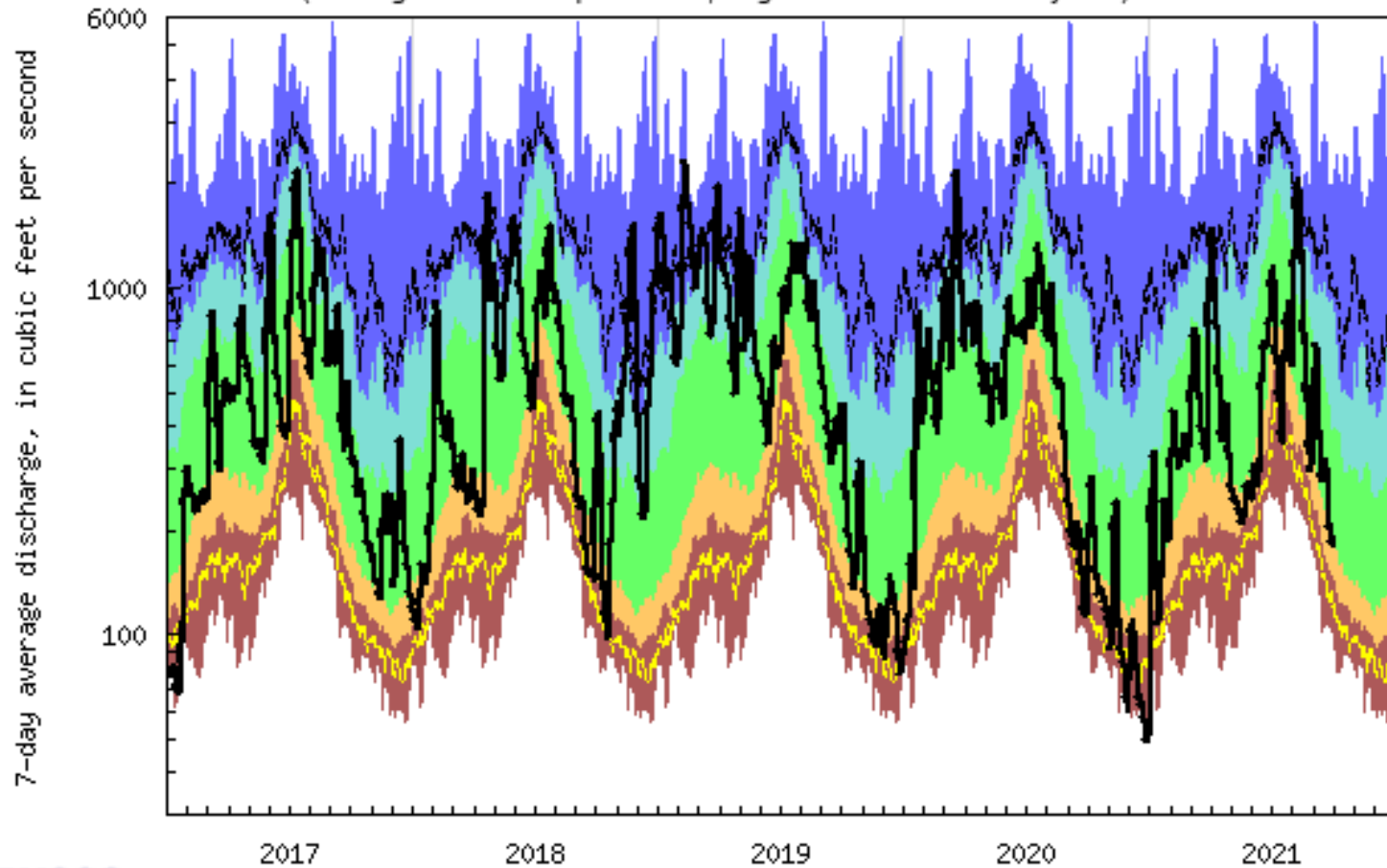
USGS WaterWatch

Last updated: 2021-07-01

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

USGS 01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA
(Drainage area: 282 square miles, length of record: 106 - 107 years)

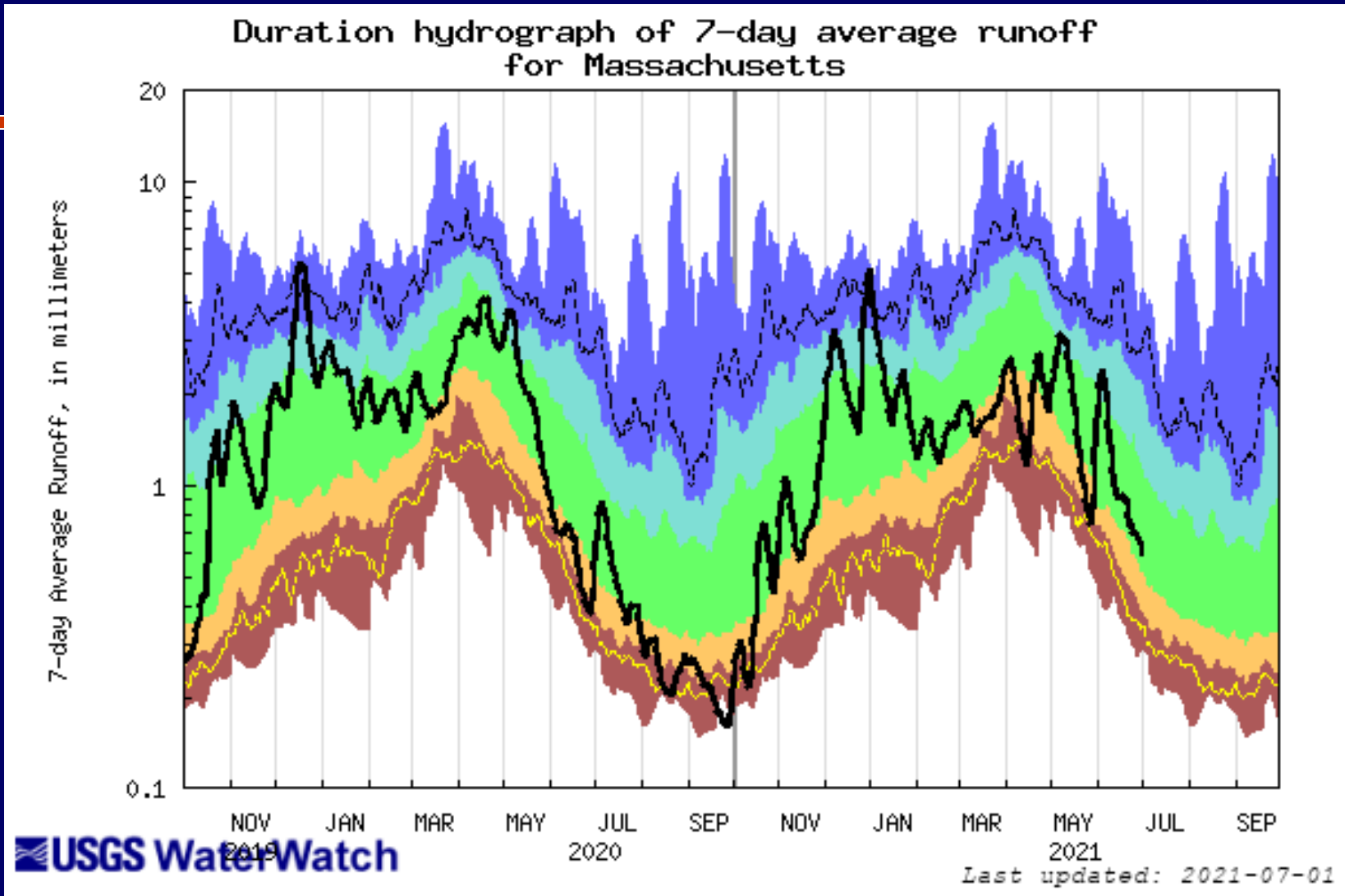


USGS WaterWatch

Last updated: 2021-07-01

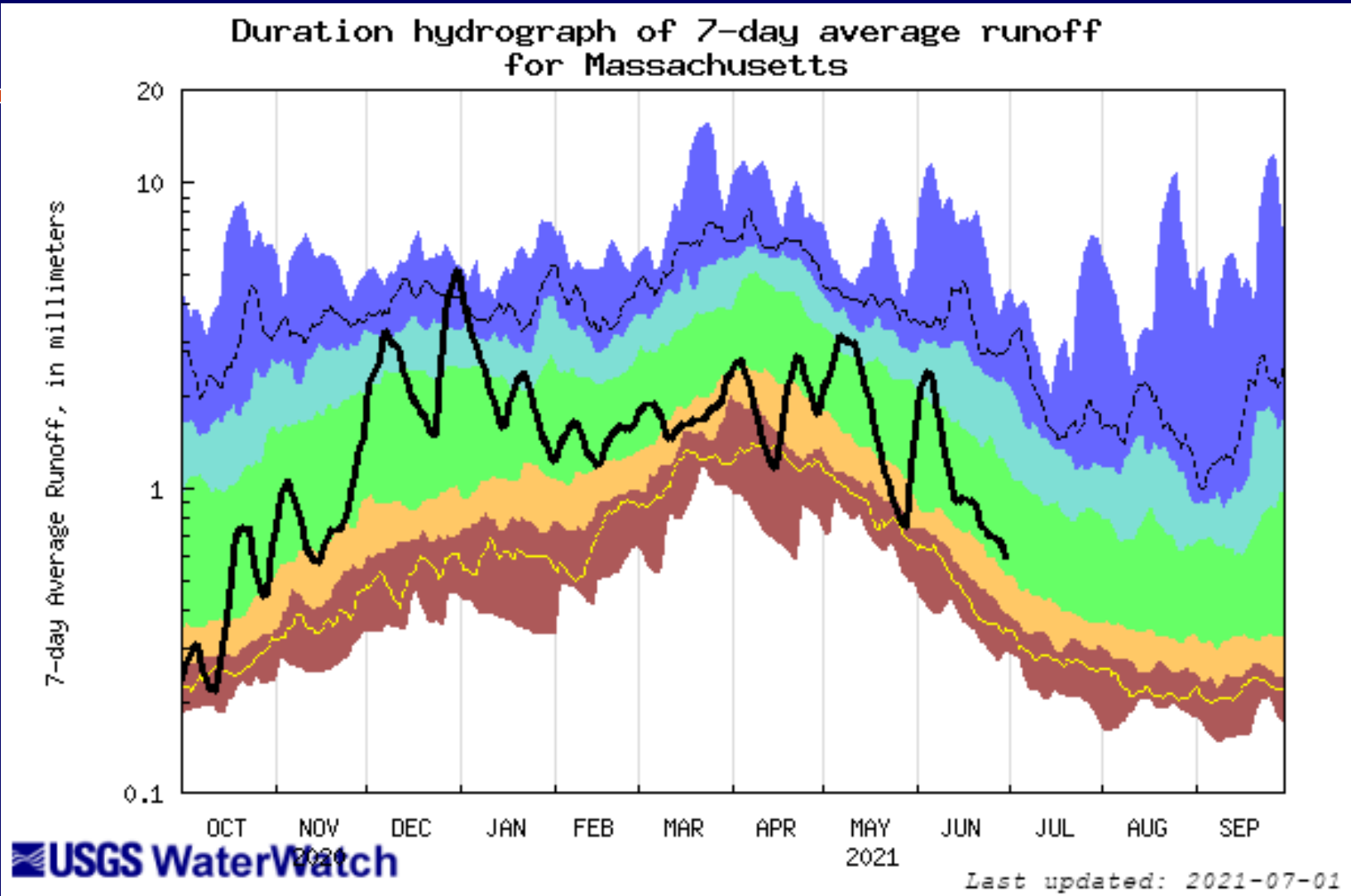
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Flow

Streamflow Conditions – June 30, 2021



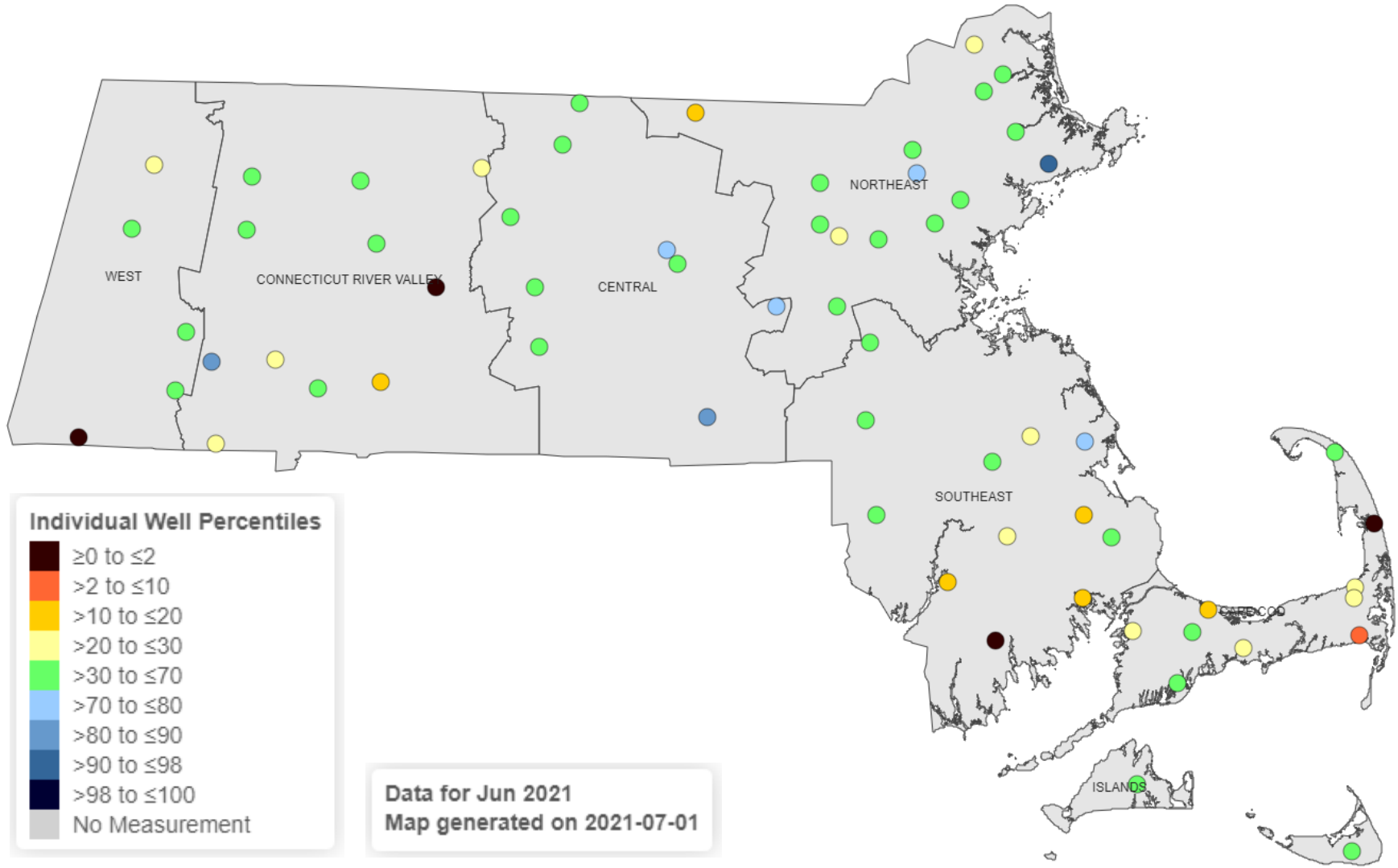
Explanation - Percentile classes						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest
Much below Normal		Below normal	Normal	Above normal	Much above normal	Flow

Streamflow Conditions – June 30, 2021

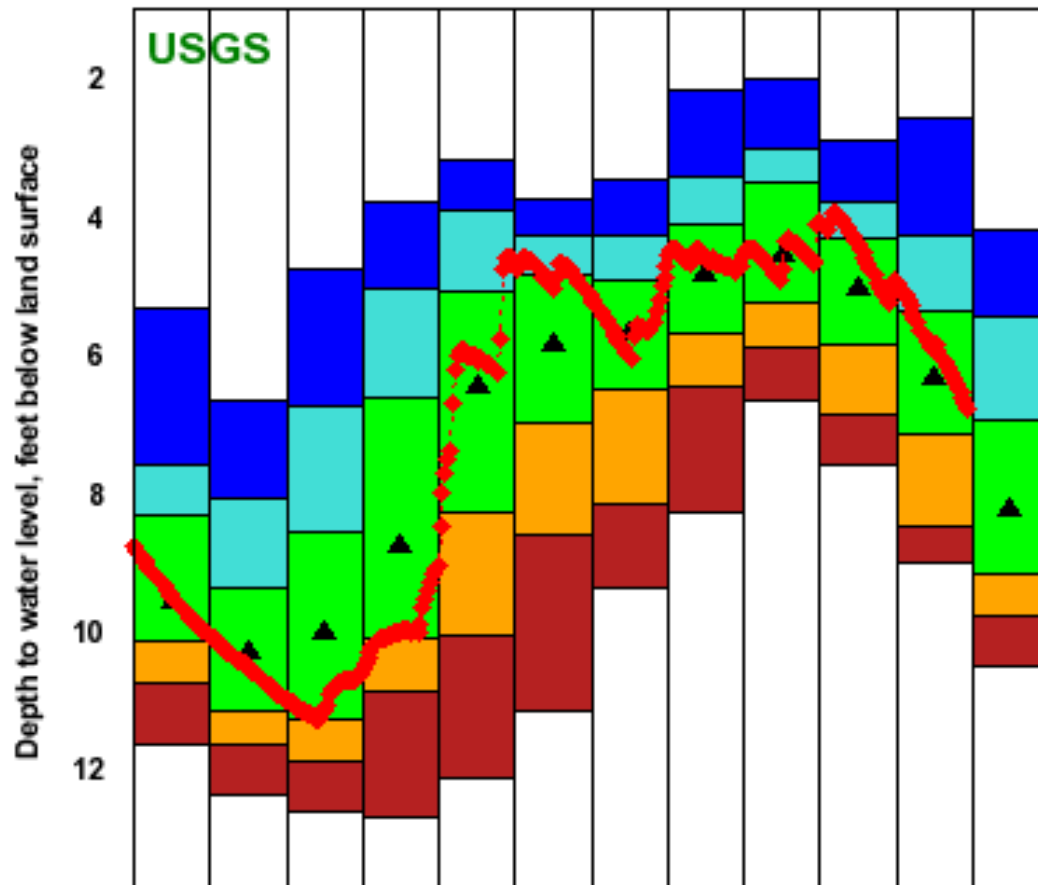


Explanation - Percentile classes						
	<10	10-24	25-75	76-90	>90	
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High

Groundwater Conditions – June 2021



4245 20070562401 - MA-NIW 27 NEWBURY, MA



Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul
2020 - 2021

Plot created 07/01/21 08:20

Explanation - Percentile Classes

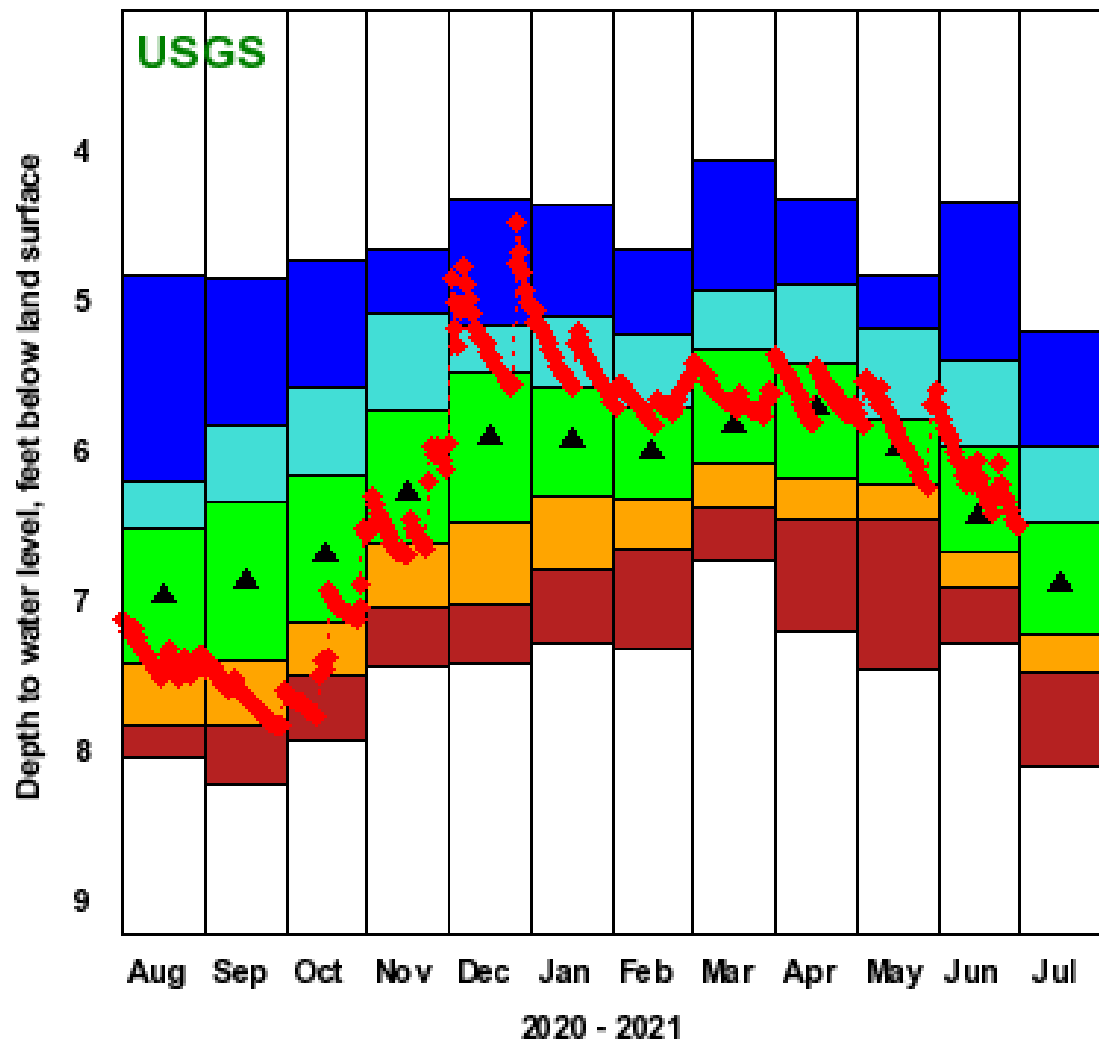
◆ Data Point ● < 10 ● 10 - 24 ● 25 - 75 ● 76 - 90 ● > 90 ▲ Monthly Median

Period of Record

All data
July 1959 – present

Continuous data
Oct. 1984 - present

420544071173701 - MA-NNW 27 R NORFOLK, MA



Explanation - Percentile Classes

◆ Data Point

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

▲ Monthly Median

Period of Record

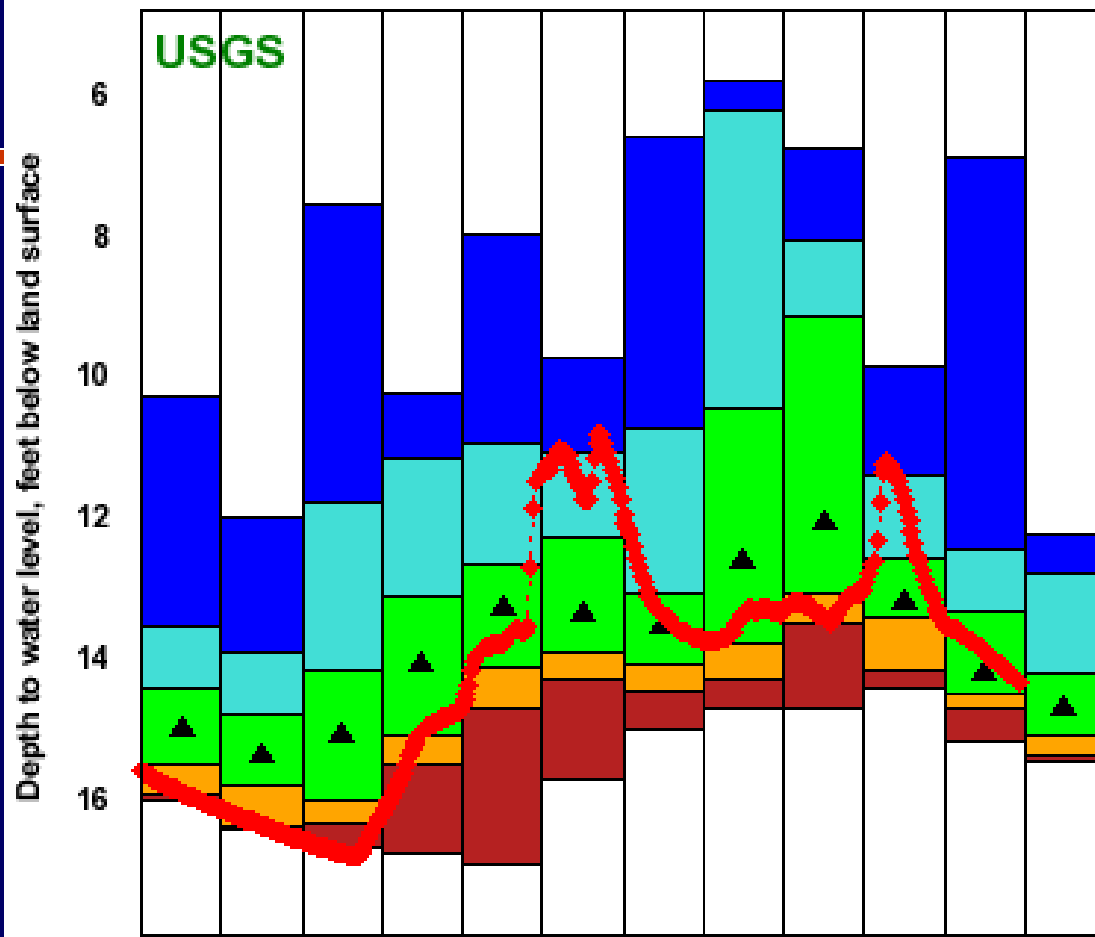
All data

Dec. 1964 – present

Continuous data

Aug. 2001 - present

422906072124301 - MA-PHW 16 PETERSHAM, MA



Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul

2020 - 2021

Plot created 07/01/21 08:20

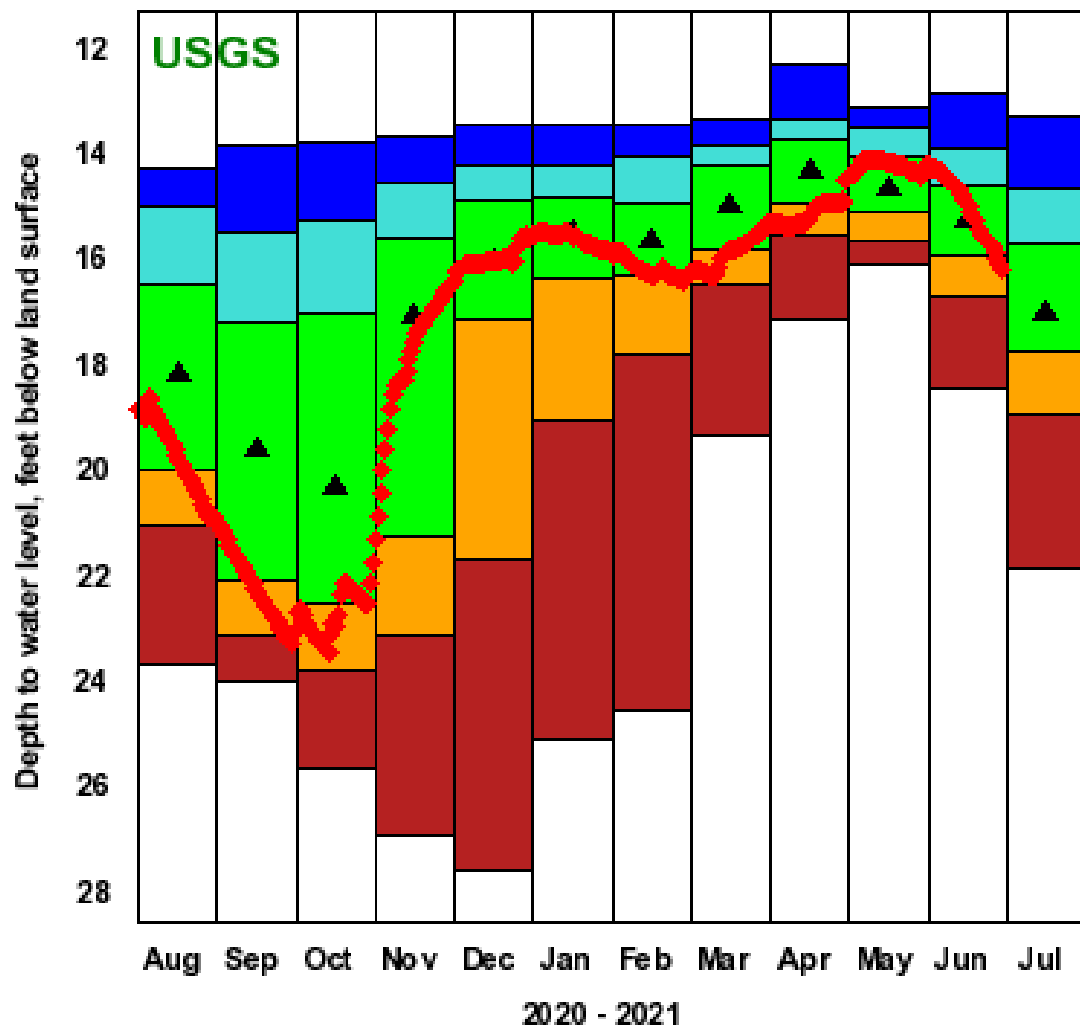
USGS
Data Point
Explanation - Percentile Classes
<10 10-24 25-75 76-90 >90
Monthly Median

Period of Record

All data
Jan. 1984 – present

Continuous data
May 2012 - present

42274507 3112001 - MA-PTW 51 PITTSFIELD, MA



Plot created 07/01/21 08:20

Explanation - Percentile Classes

◆ Data Point

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

▲ Monthly Median

Period of Record

All data
Aug. 1963 – present

Continuous data
Oct. 1984 - present

Questions
