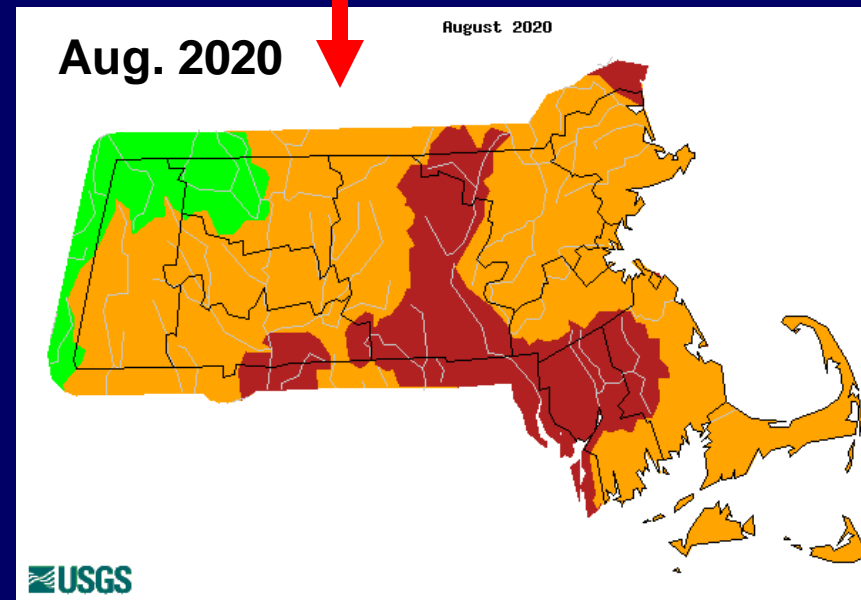
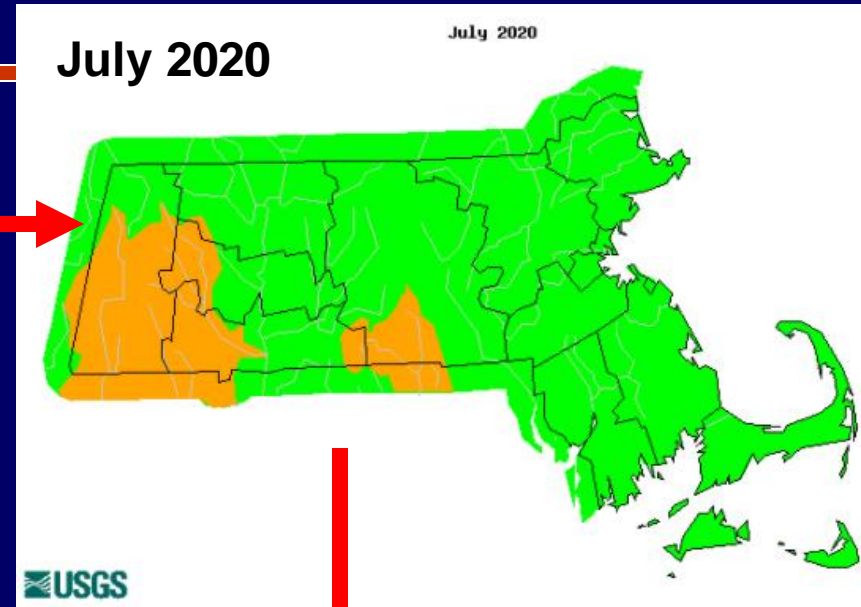
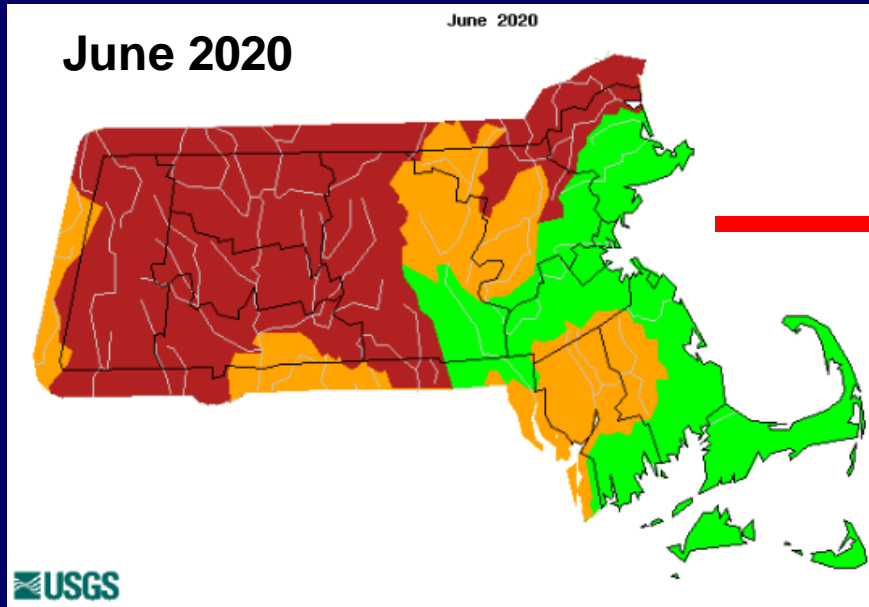

Streamflow and Groundwater Conditions in Massachusetts

March 10, 2021

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



Average Streamflow Conditions – June-Aug. 2020



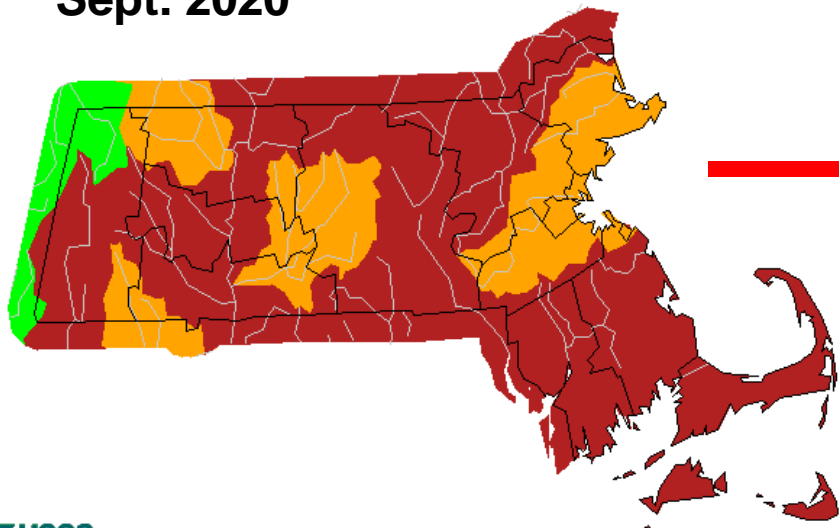
Explanation - Percentile classes

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

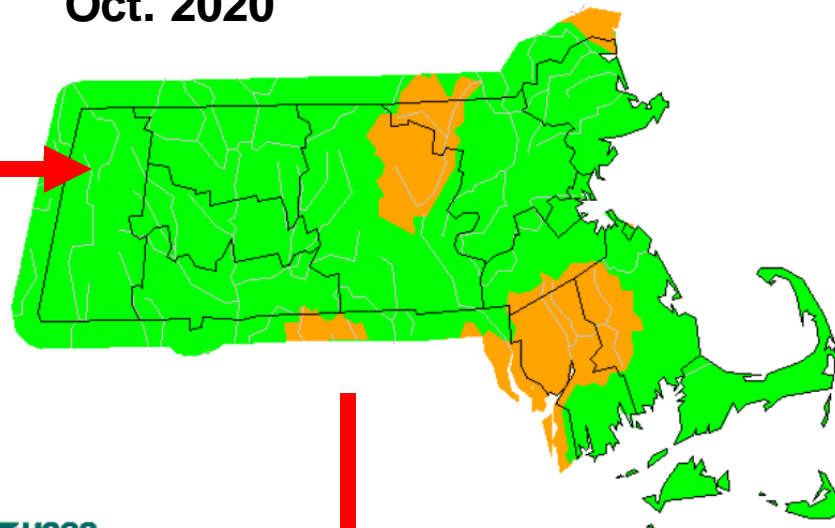
September 2020



USGS

Oct. 2020

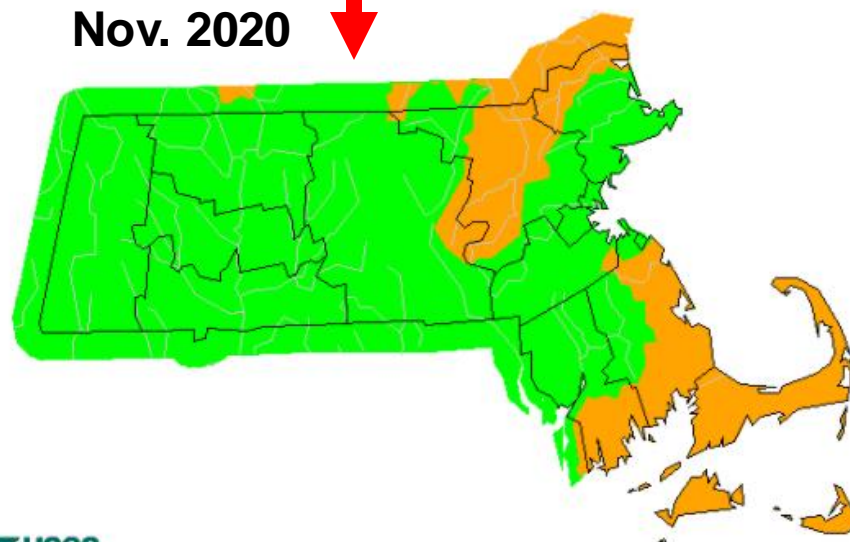
October 2020



USGS

Nov. 2020

November 2020

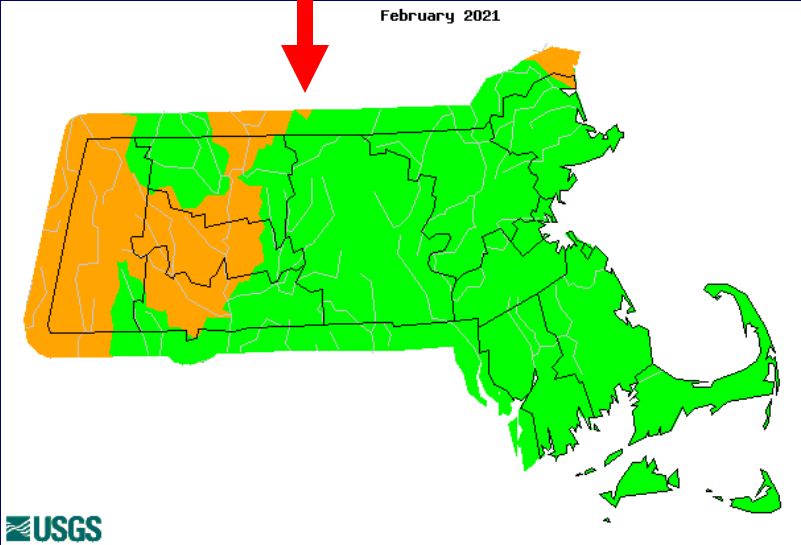
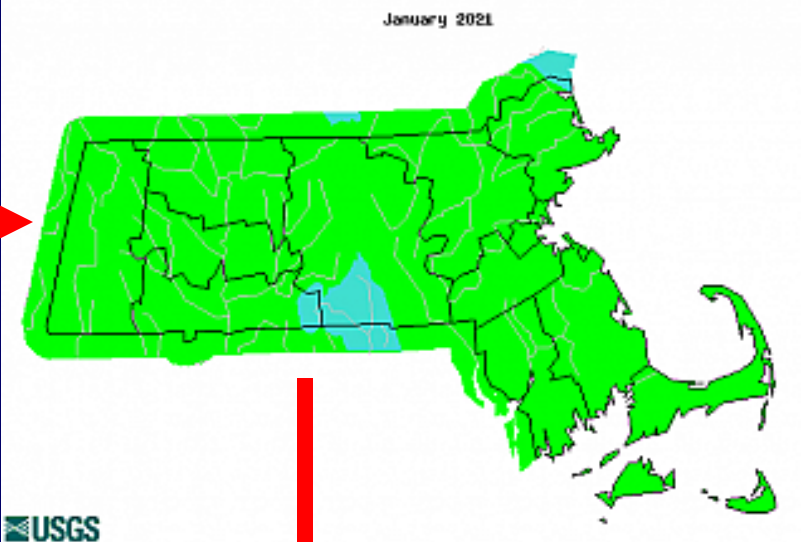
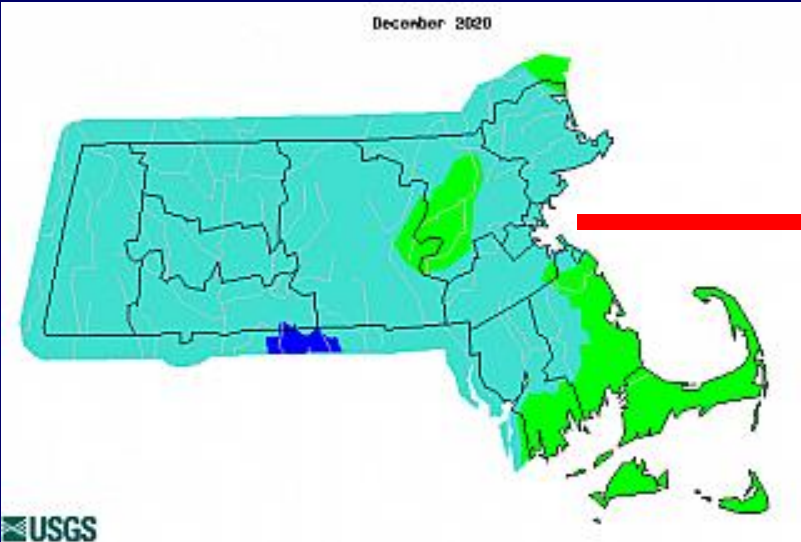


USGS

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

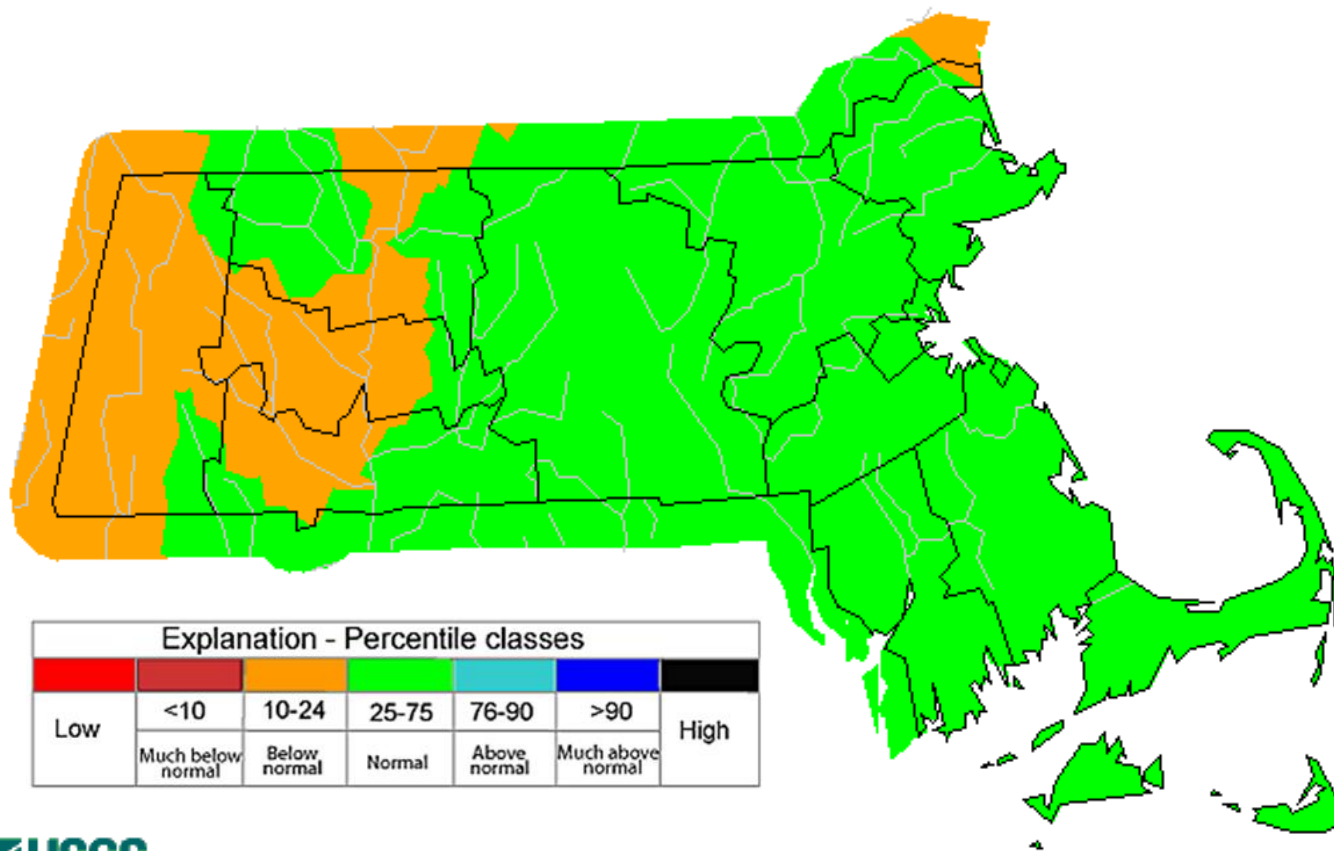


Explanation - Percentile classes

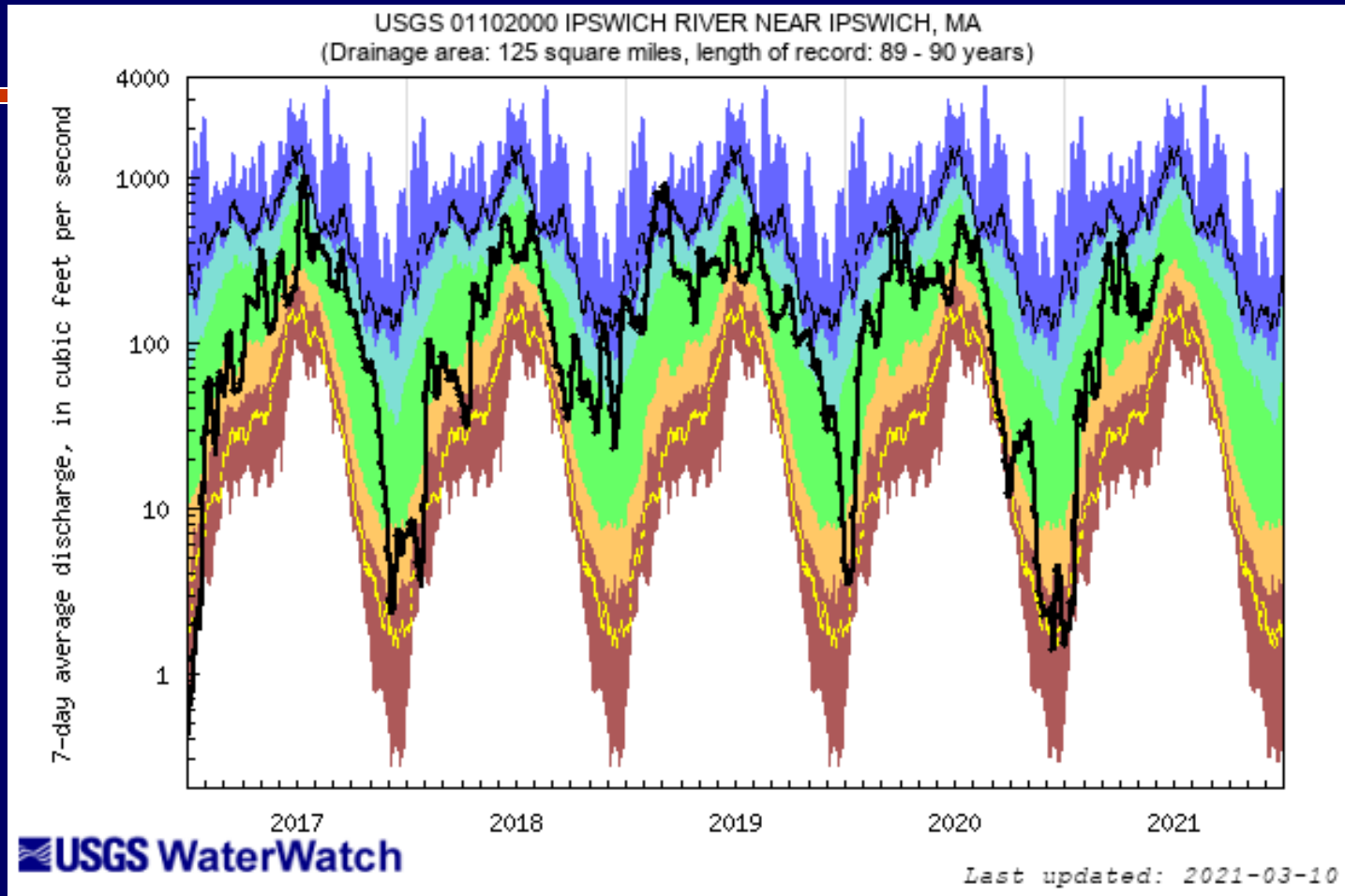
Low	<10	10-24	25-75	76-90	>90		High
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Average Streamflow Conditions – Feb. 2021

February 2021

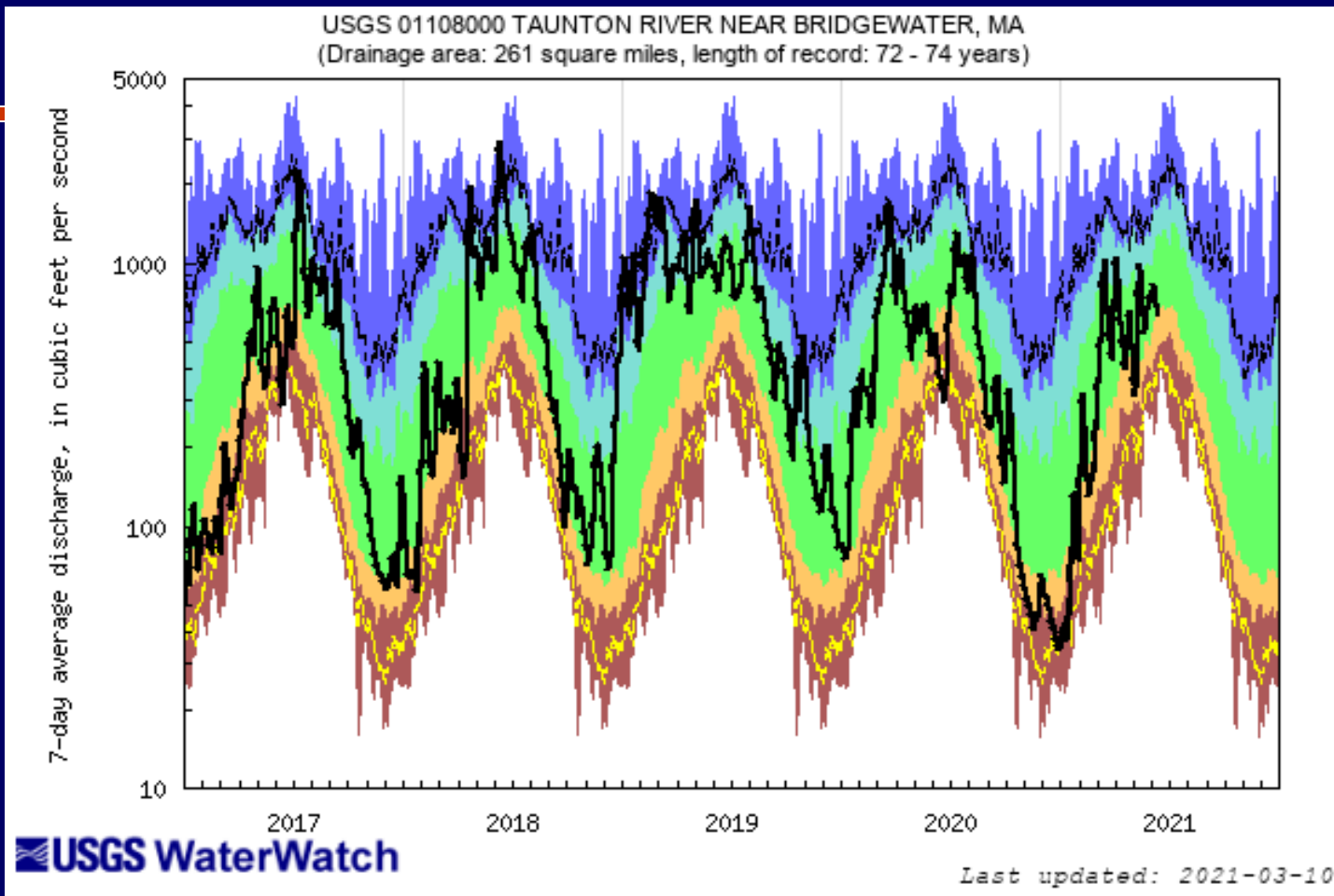


7-Day Avg. – Ipswich River – Northeastern MA



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

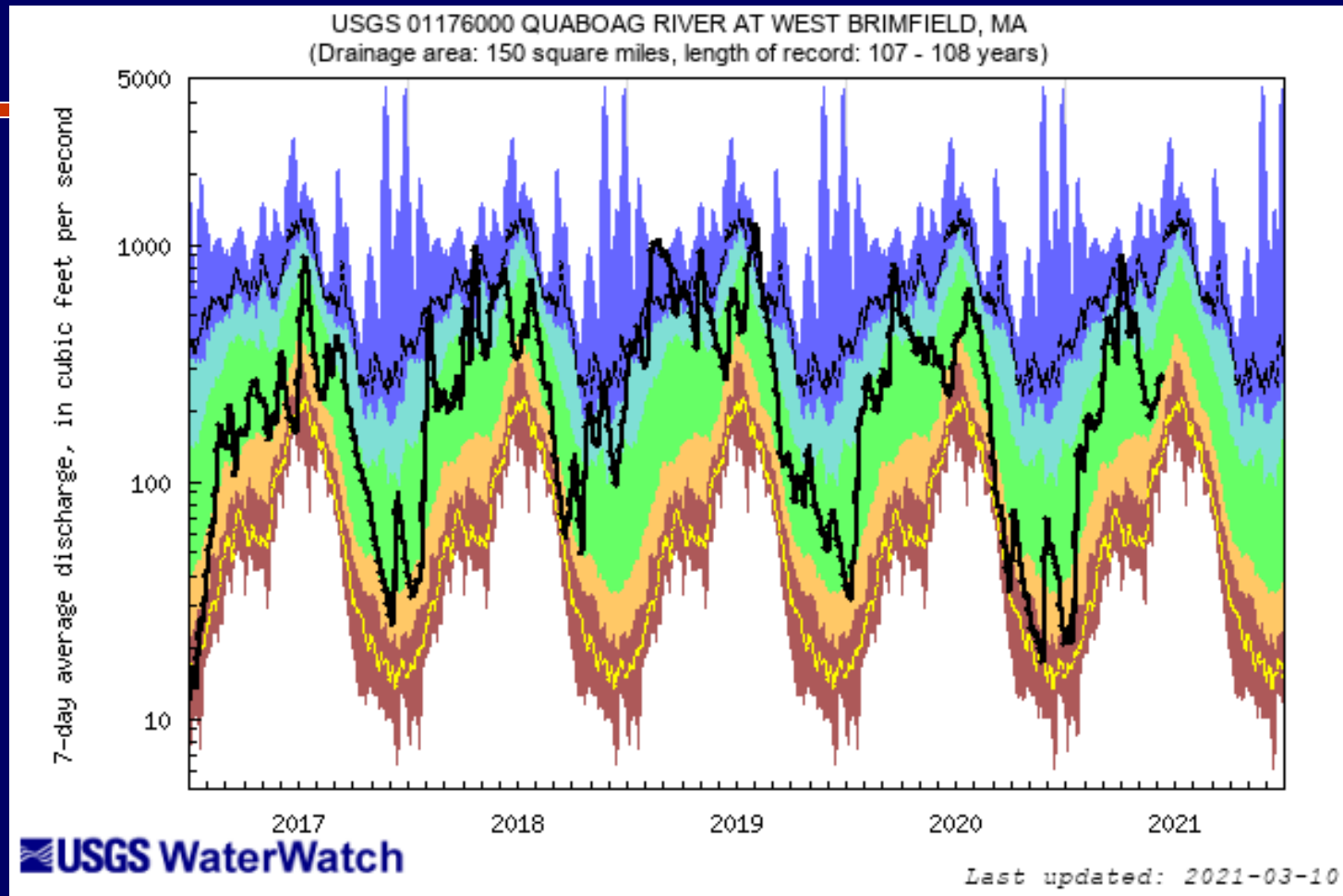
7-Day Avg. – Taunton River – Southeastern MA



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 average streamflow

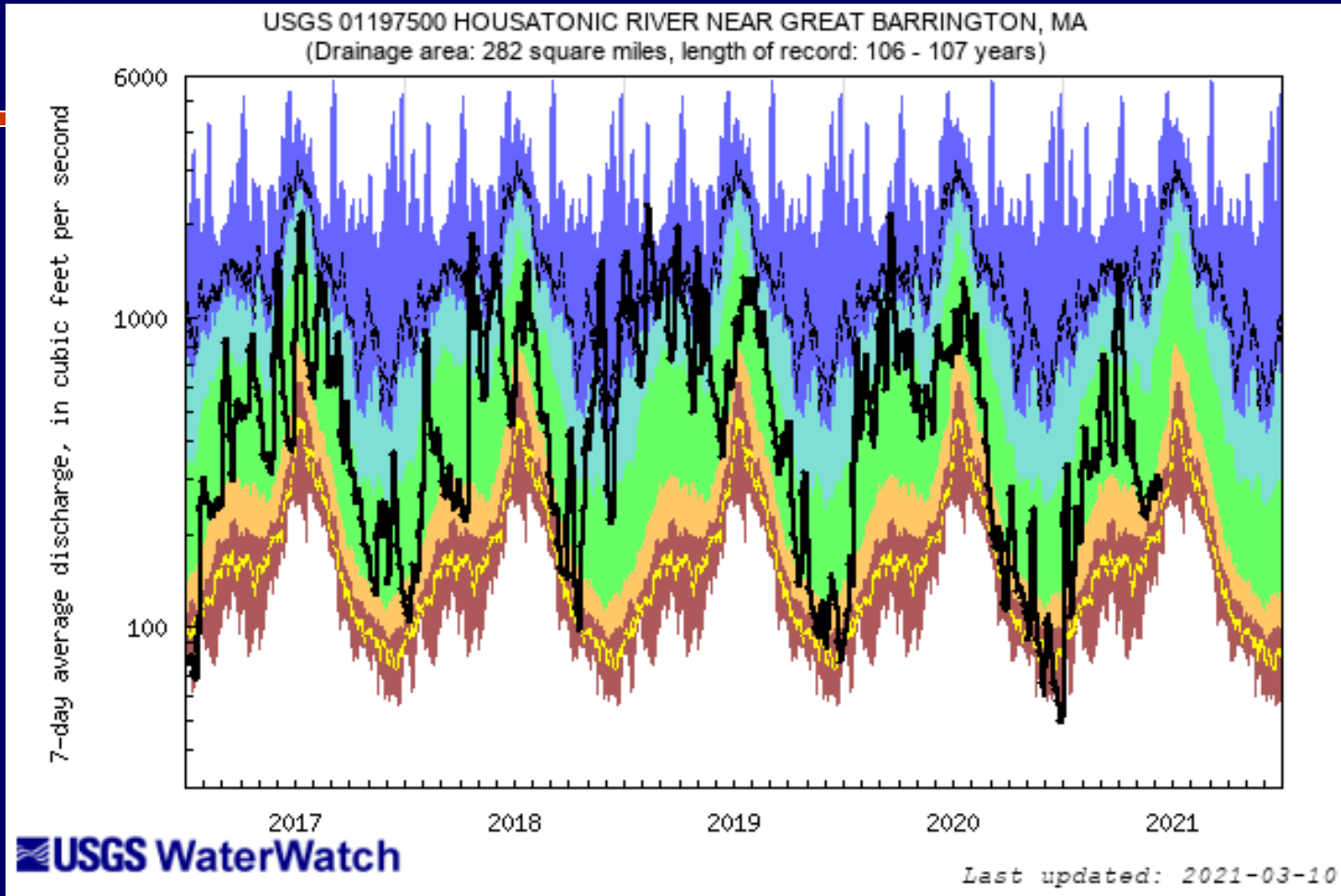
7-Day Avg. – Quaboag River – Central MA



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

7-day average streamflow

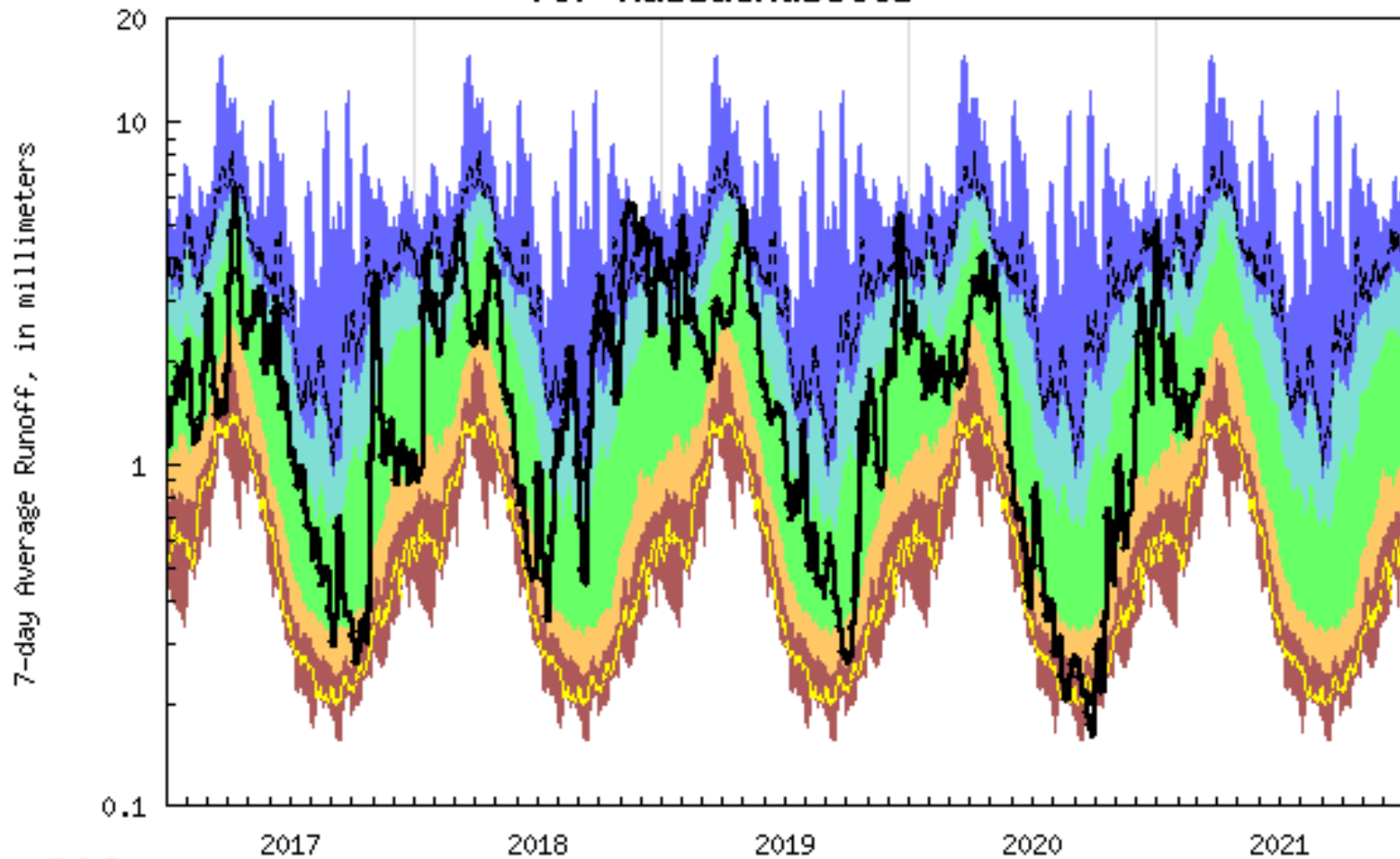
7-Day Avg. – Housatonic River – Western MA



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 streamflow

Duration hydrograph of 7-day average runoff for Massachusetts



USGS WaterWatch

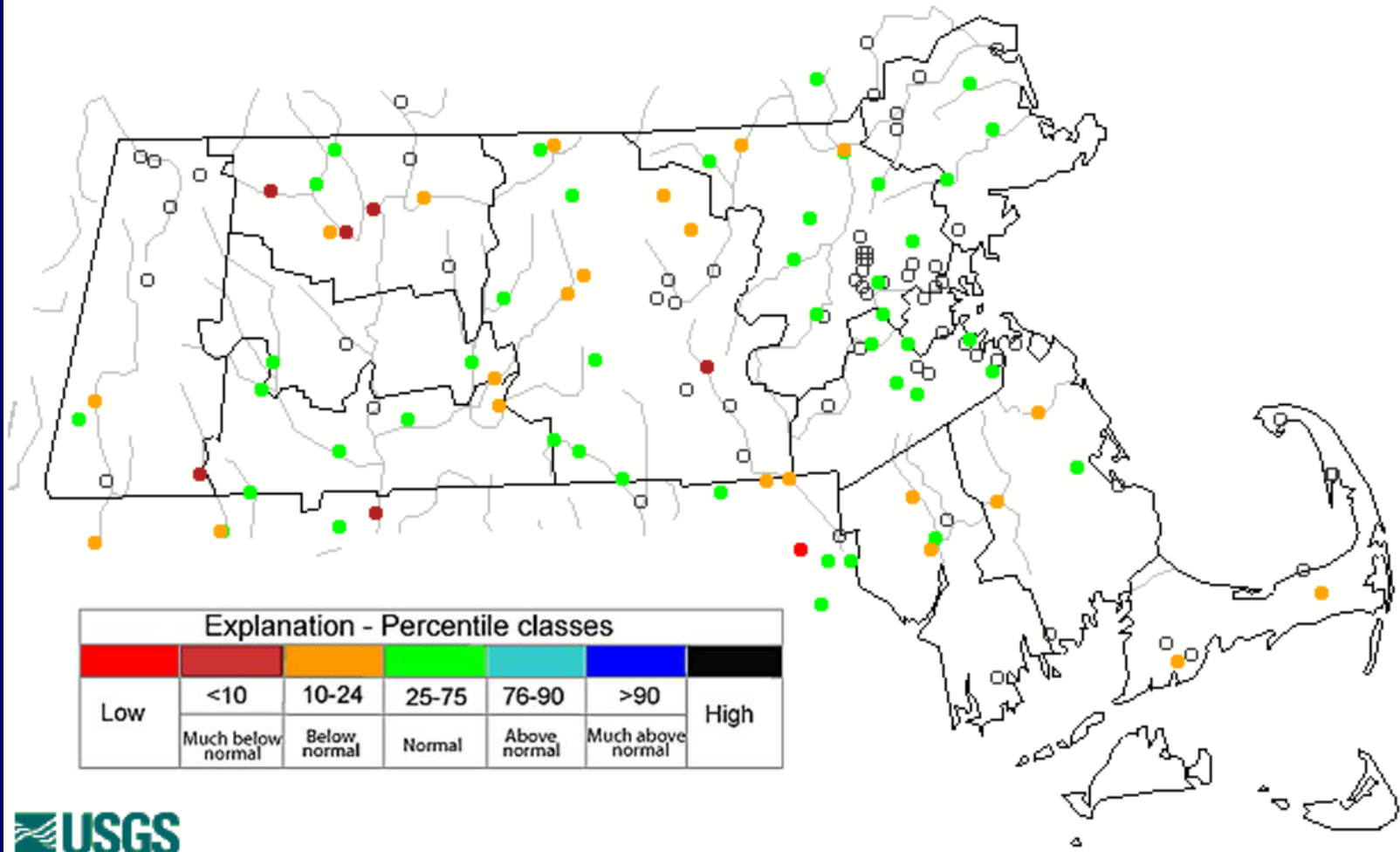
Last updated: 2021-03-10

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

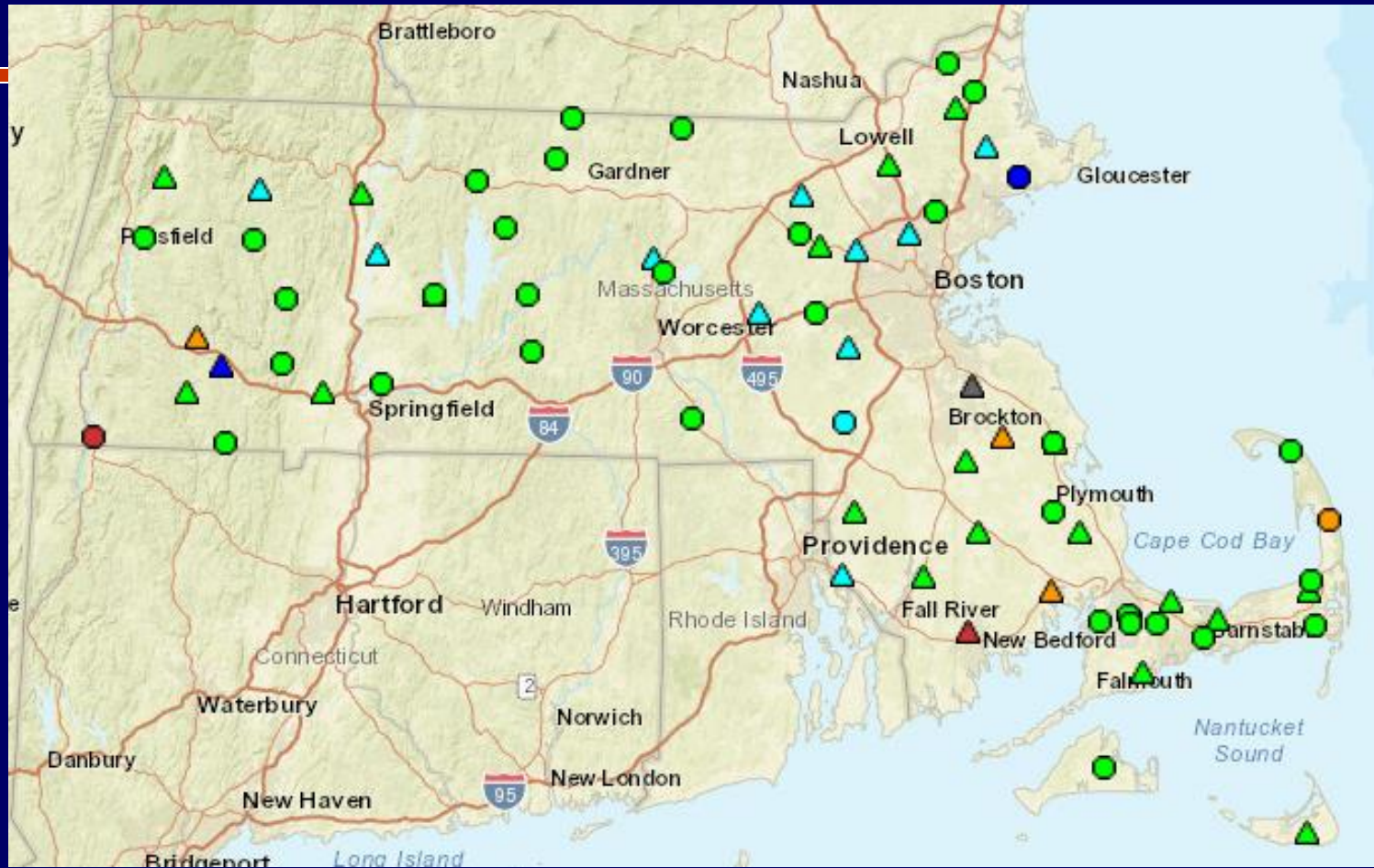
7-day average streamflow

Streamflow Conditions – Mar. 10, 2021

Wednesday, March 10, 2021 06:30ET

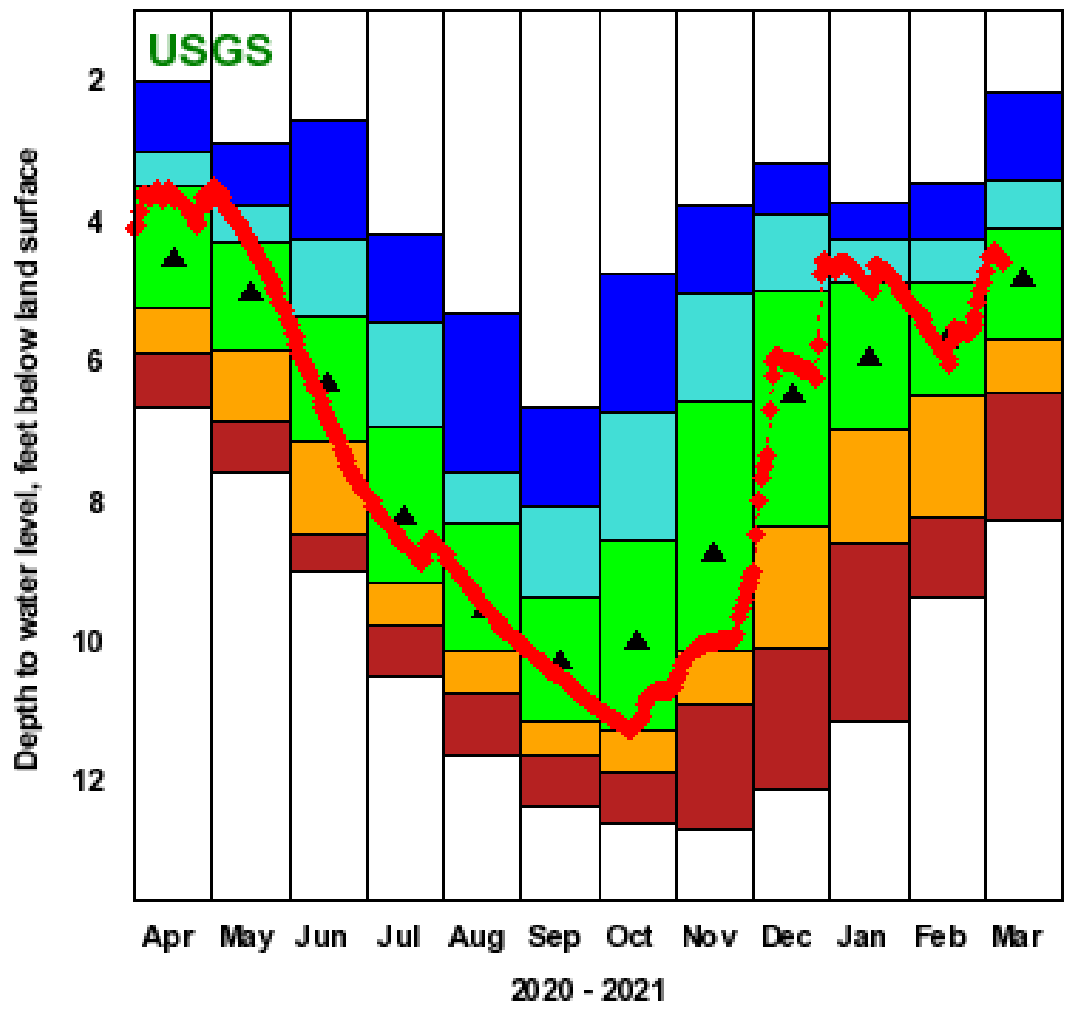


Current Groundwater Conditions



Explanation - Percentile classes								○ Real Time □ Continuous △ Periodic Measurements
●	●	●	●	●	●	●	●	
New Low	<10	10-24	25-75	76-90	>90	New High	Not Ranked	
	Much Below Normal	Below Normal	Normal	Above Normal	Much Above Normal			

4245 20070562401 - MA-NIW 27 NEWBURY, MA



Plot created 03/10/21 01:36

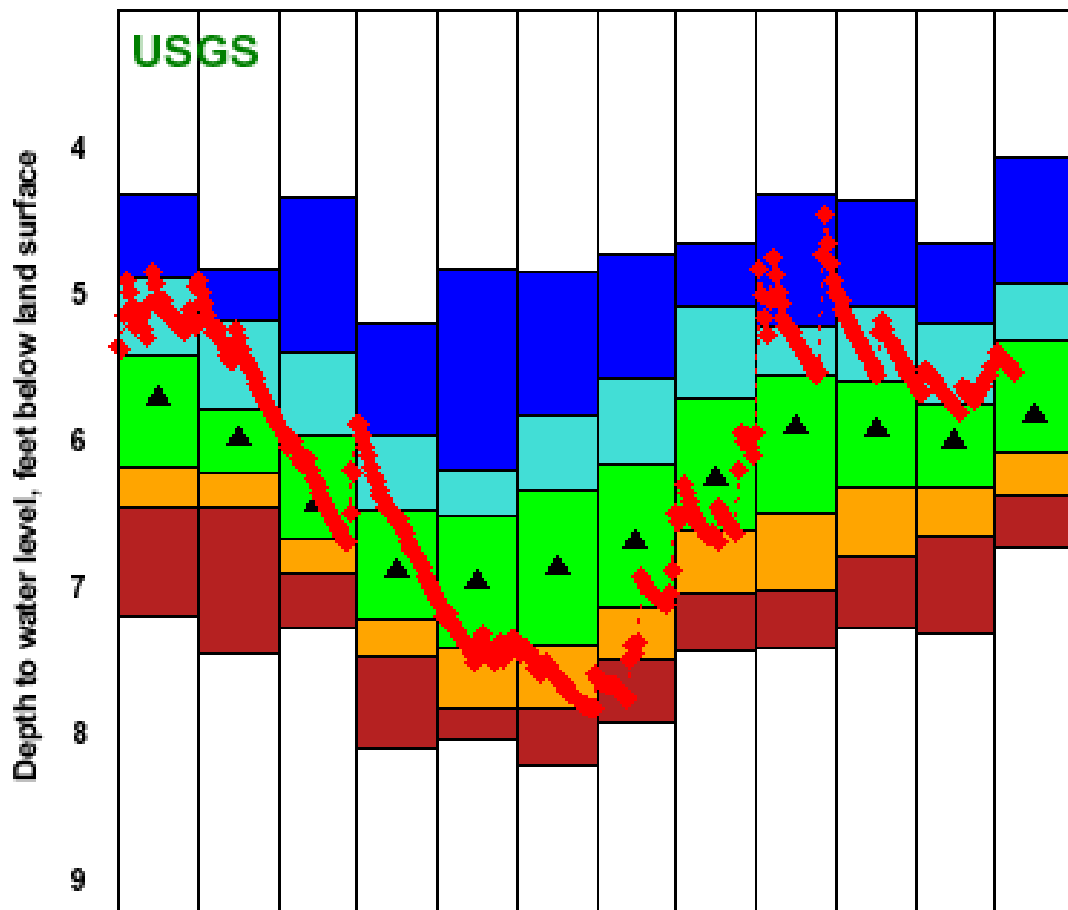
◆ Data Point
 ● < 10
 ● 10 - 24
 ● 25 - 75
 ● 76 - 90
 ● > 90
 ▲ Monthly Median

Period of Record

All data
July 1959 – present

Continuous data
Oct. 1984 - present

420544071173701 - MA-NNW 27R NORFOLK, MA



Period of Record

All data

Dec. 1964 – present

Continuous data

Aug. 2001 - present

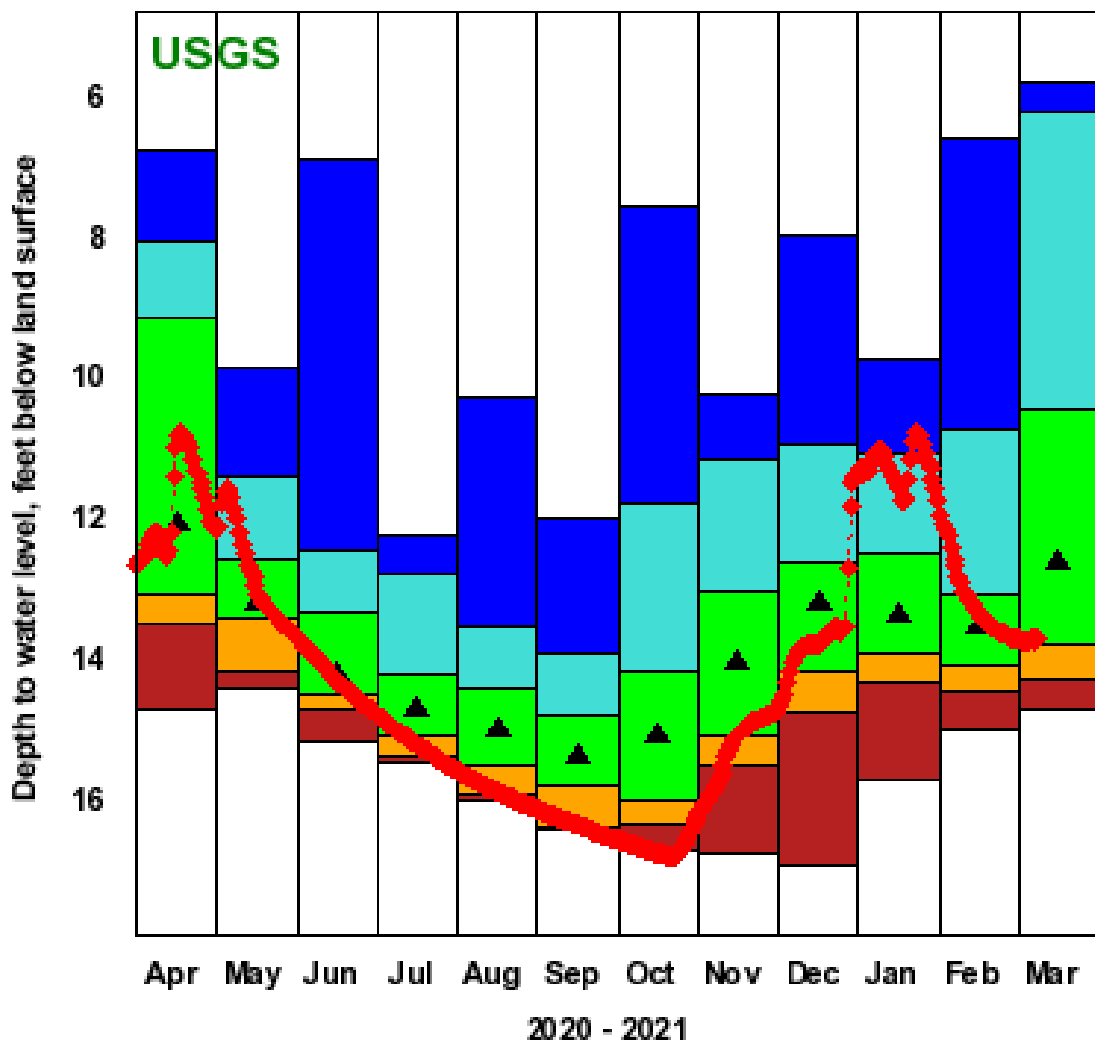
Explanation - Percentile Classes

◆ Data Point

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

▲ Monthly Median

422906072124301 - MA-PHW 16 PETERSHAM, MA



Explanation - Percentile Classes

◆ Data Point

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

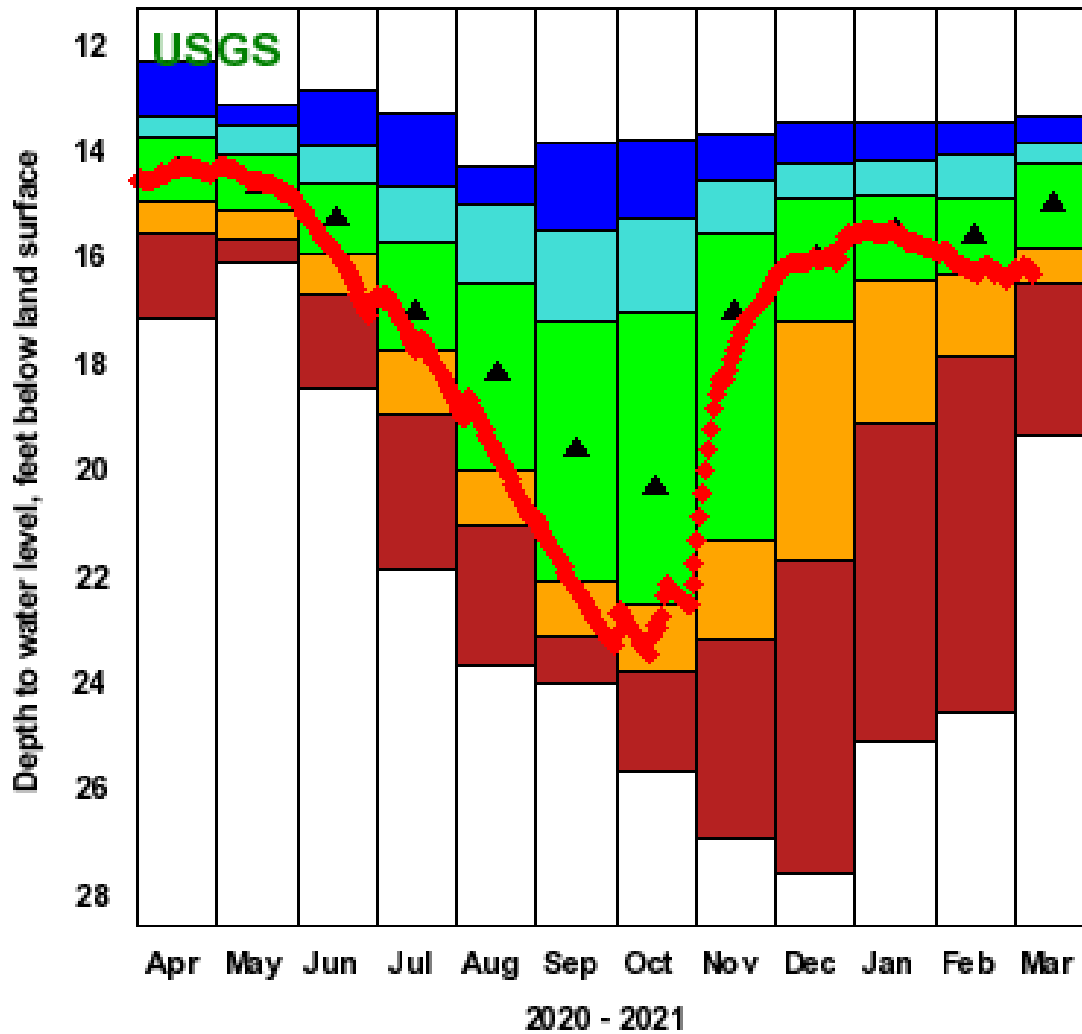
▲ Monthly Median

Period of Record

All data
Jan. 1984 – present

Continuous data
May 2012 - present

42274507 3112001 - MA-PTW 51 PITTSFIELD, MA



Plot created 03/10/21 01:36

Explanation - Percentile Classes



Period of Record

All data
Aug. 1963 – present

Continuous data
Oct. 1984 - present

Questions



Aug. 19, 2020



Sept. 23, 2020



Oct. 21, 2020

Feb. 12, 2021



Segreganset River at North Dighton, MA (01109070)