
Streamflow and Groundwater Conditions in Massachusetts

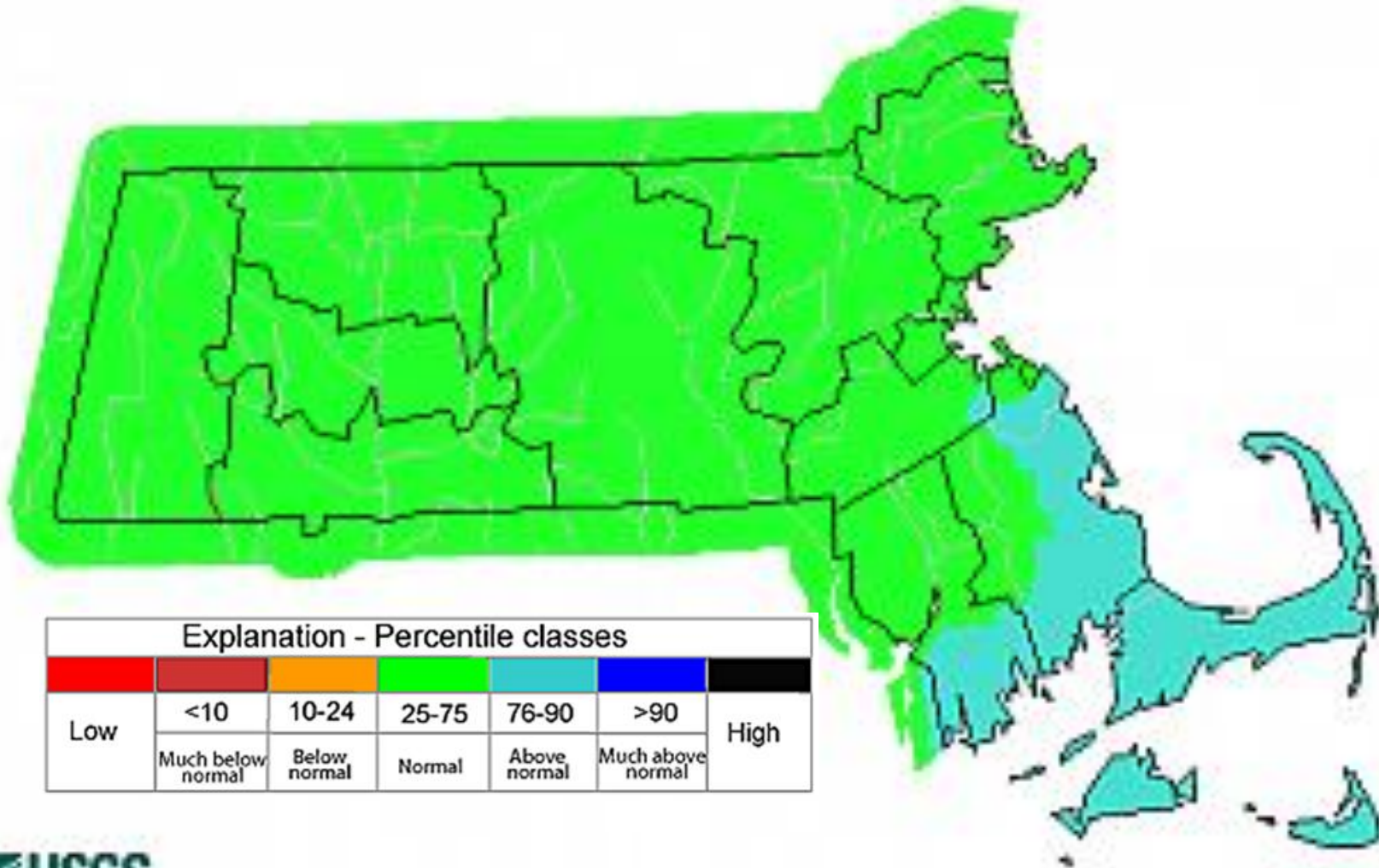
Aug. 12, 2020

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



Average Streamflow Conditions – April 2020

April 2020

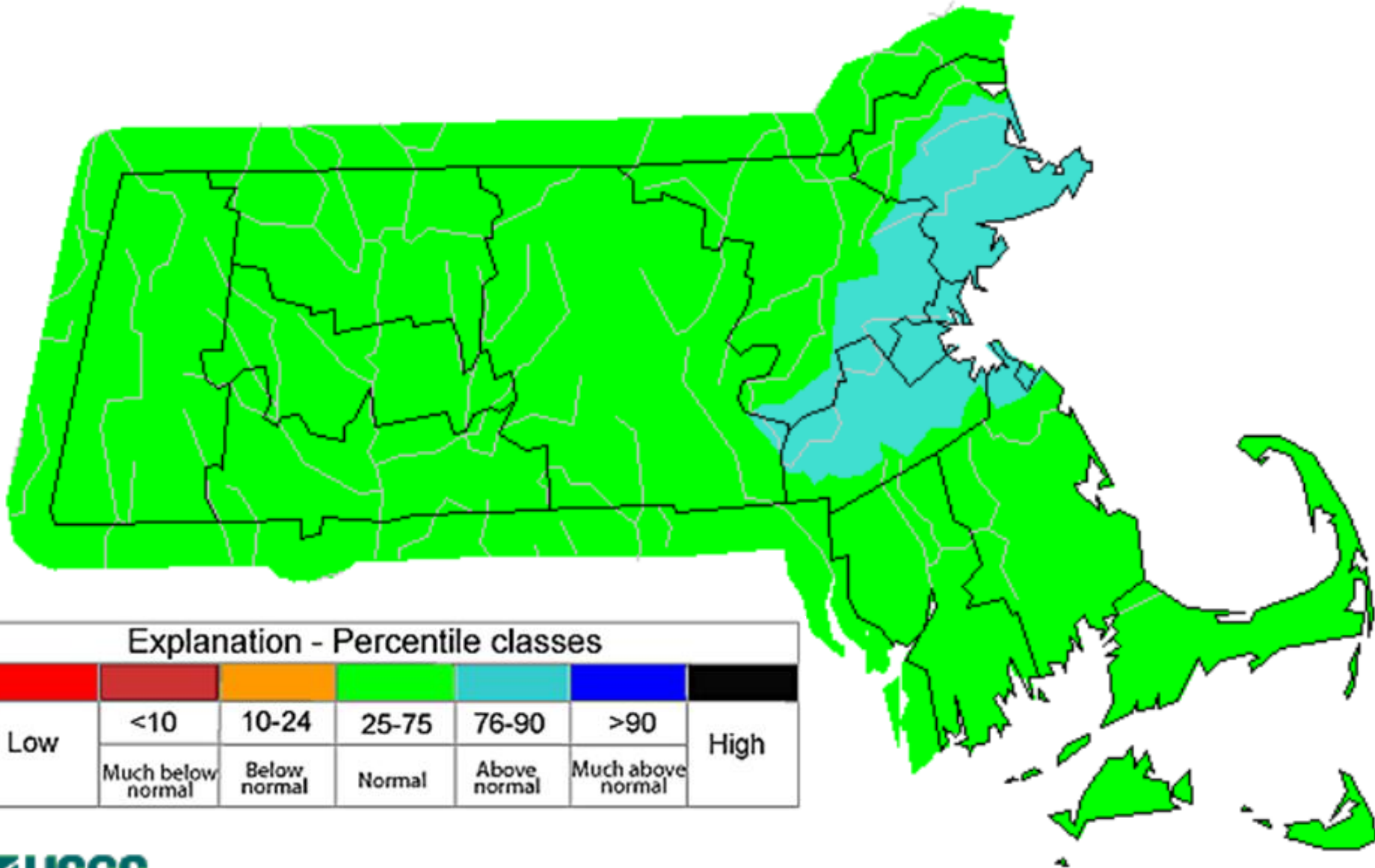


Explanation - Percentile classes

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

Average Streamflow Conditions – May 2020

May 2020

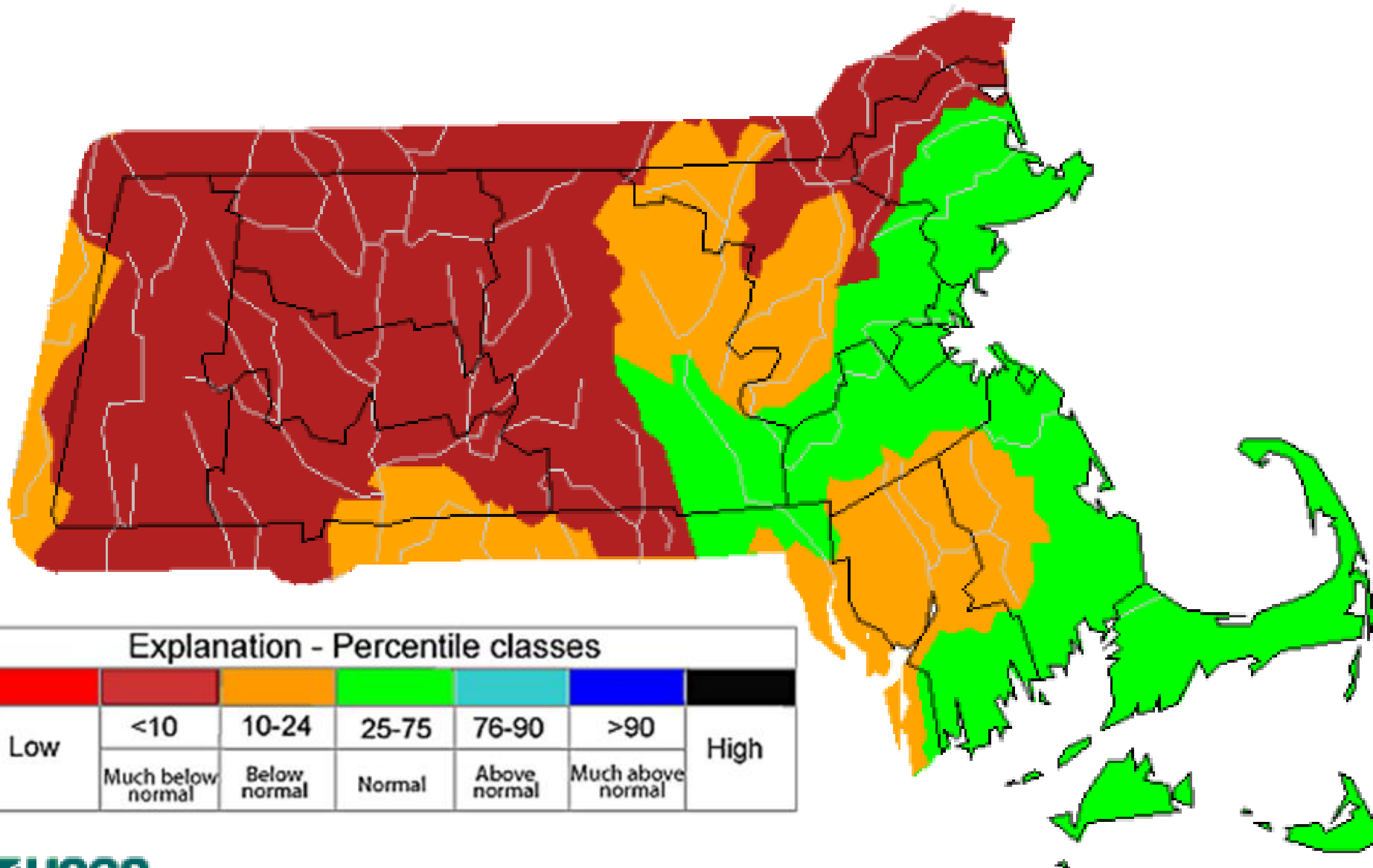


Explanation - Percentile classes

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

Average Streamflow Conditions – June 2020

June 2020

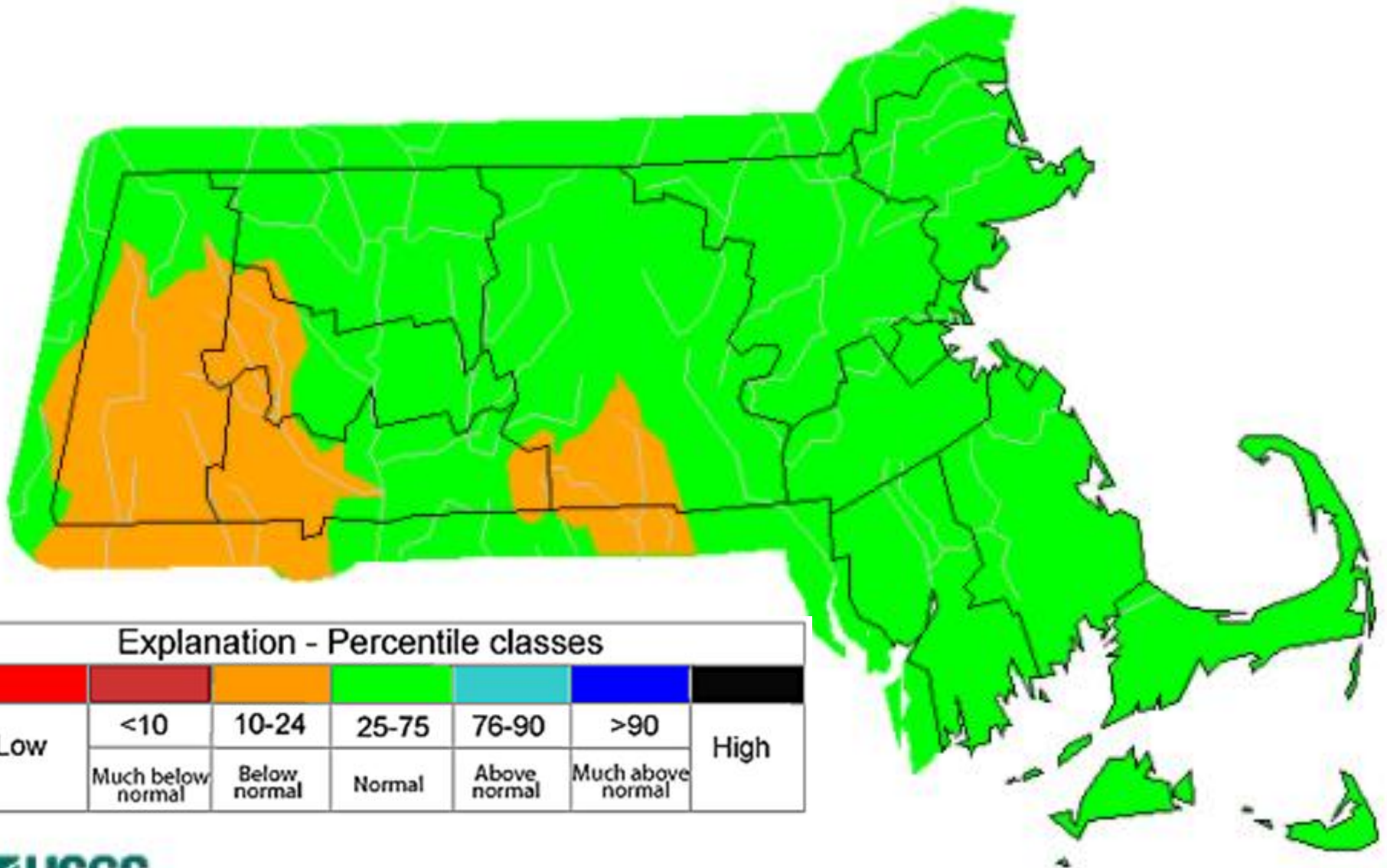


Explanation - Percentile classes

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

Average Streamflow Conditions – July 2020

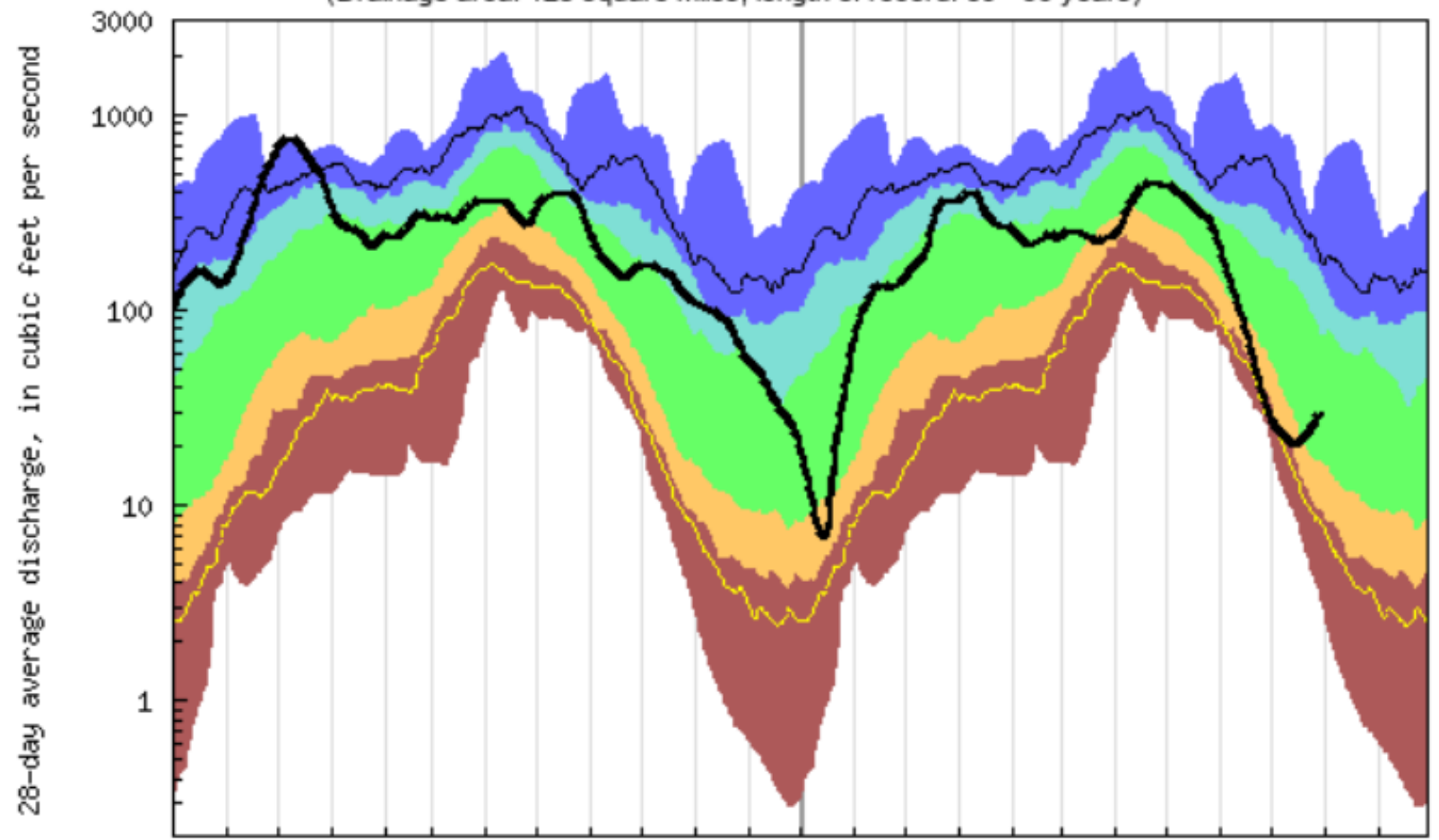
July 2020



Explanation - Percentile classes

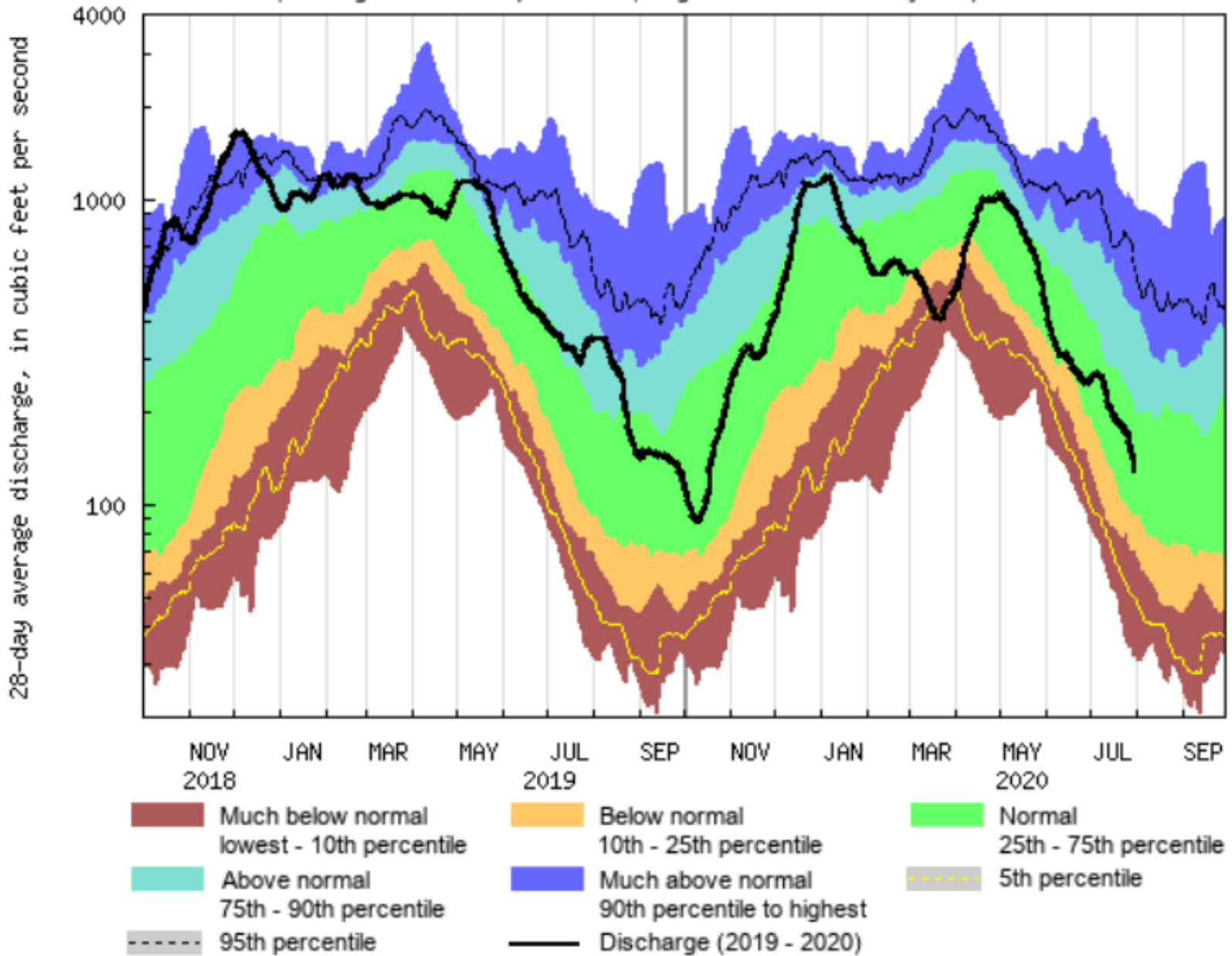
	<10	10-24	25-75	76-90	>90	
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High

USGS 01102000 IPSWICH RIVER NEAR IPSWICH, MA
 (Drainage area: 125 square miles, length of record: 89 - 90 years)

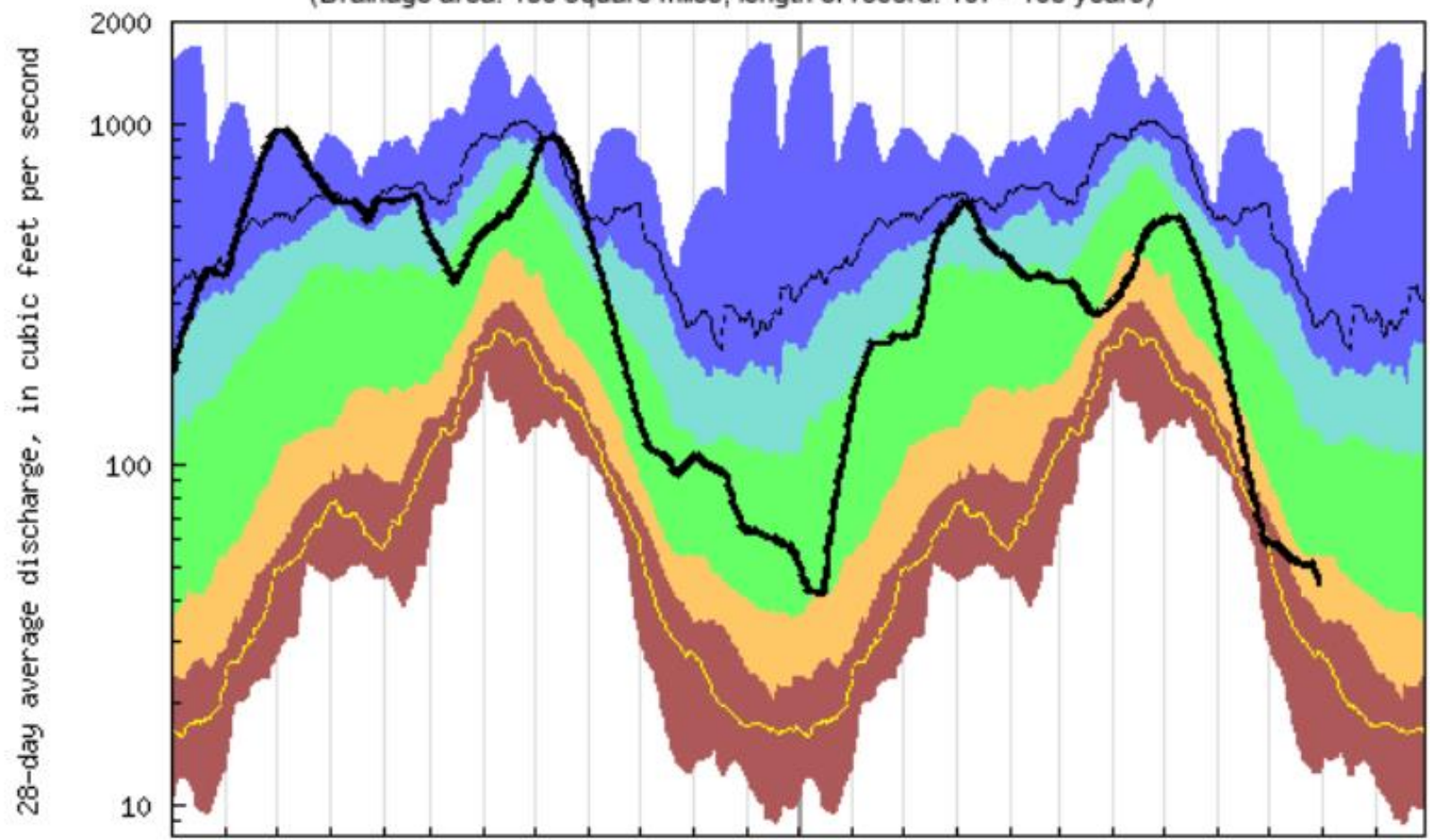


NOV 2018	JAN	MAR	MAY	JUL	SEP	NOV	JAN	MAR	MAY	JUL	SEP
2019						2020					
Much below normal lowest - 10th percentile	Below normal 10th - 25th percentile		Normal 25th - 75th percentile		Above normal 75th - 90th percentile		Much above normal 90th percentile to highest		95th percentile		5th percentile
Discharge (2019 - 2020)											

USGS 01108000 TAUNTON RIVER NEAR BRIDGEWATER, MA
 (Drainage area: 261 square miles, length of record: 72 - 74 years)

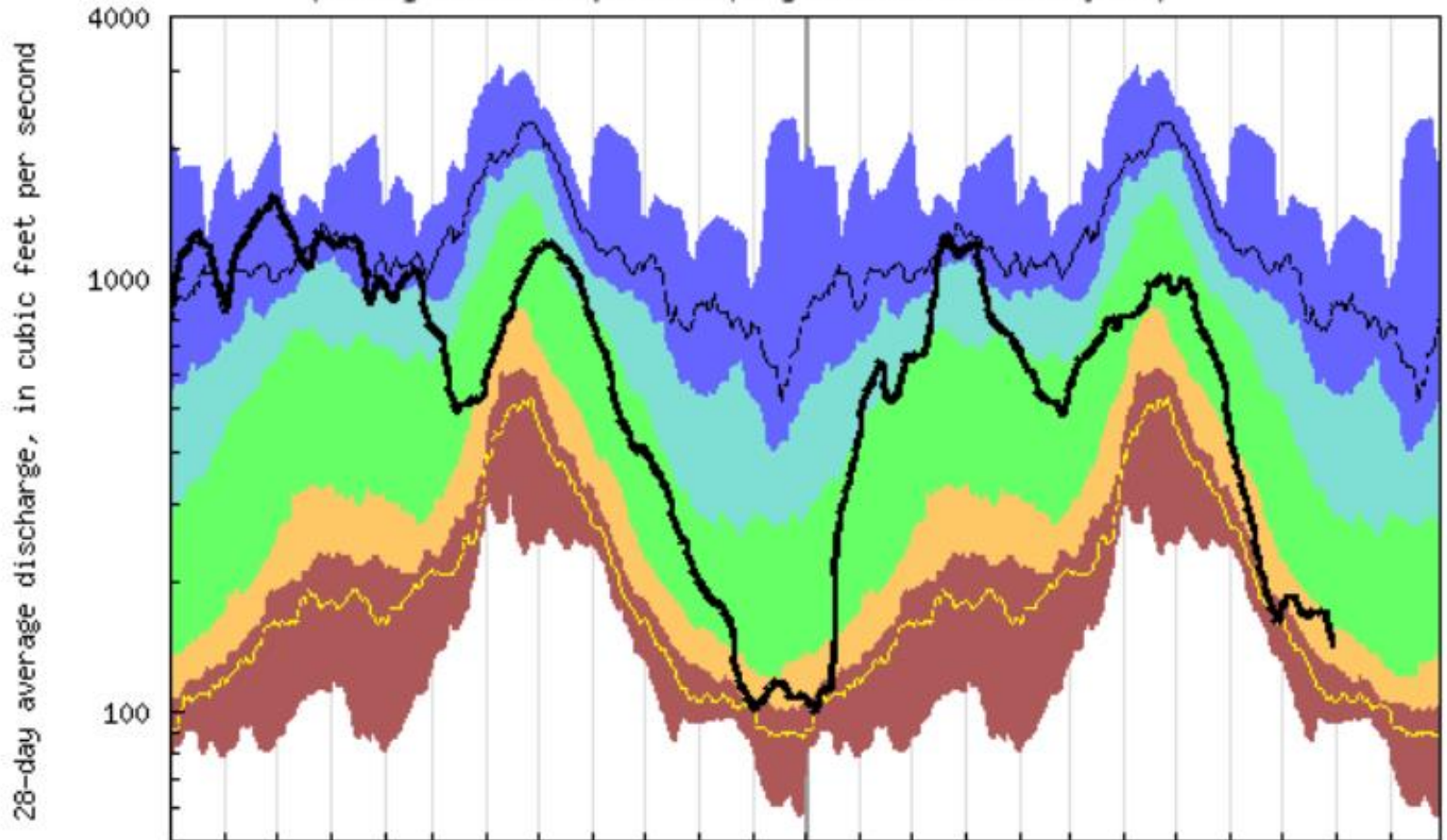


USGS 01176000 QUABOAG RIVER AT WEST BRIMFIELD, MA
 (Drainage area: 150 square miles, length of record: 107 - 108 years)



NOV 2018	JAN	MAR	MAY	JUL 2019	SEP	NOV	JAN	MAR	MAY	JUL	SEP 2020
Much below normal lowest - 10th percentile	Below normal 10th - 25th percentile	Normal 25th - 75th percentile	Above normal 75th - 90th percentile	Much above normal 90th percentile to highest	5th percentile	95th percentile	Discharge (2019 - 2020)				

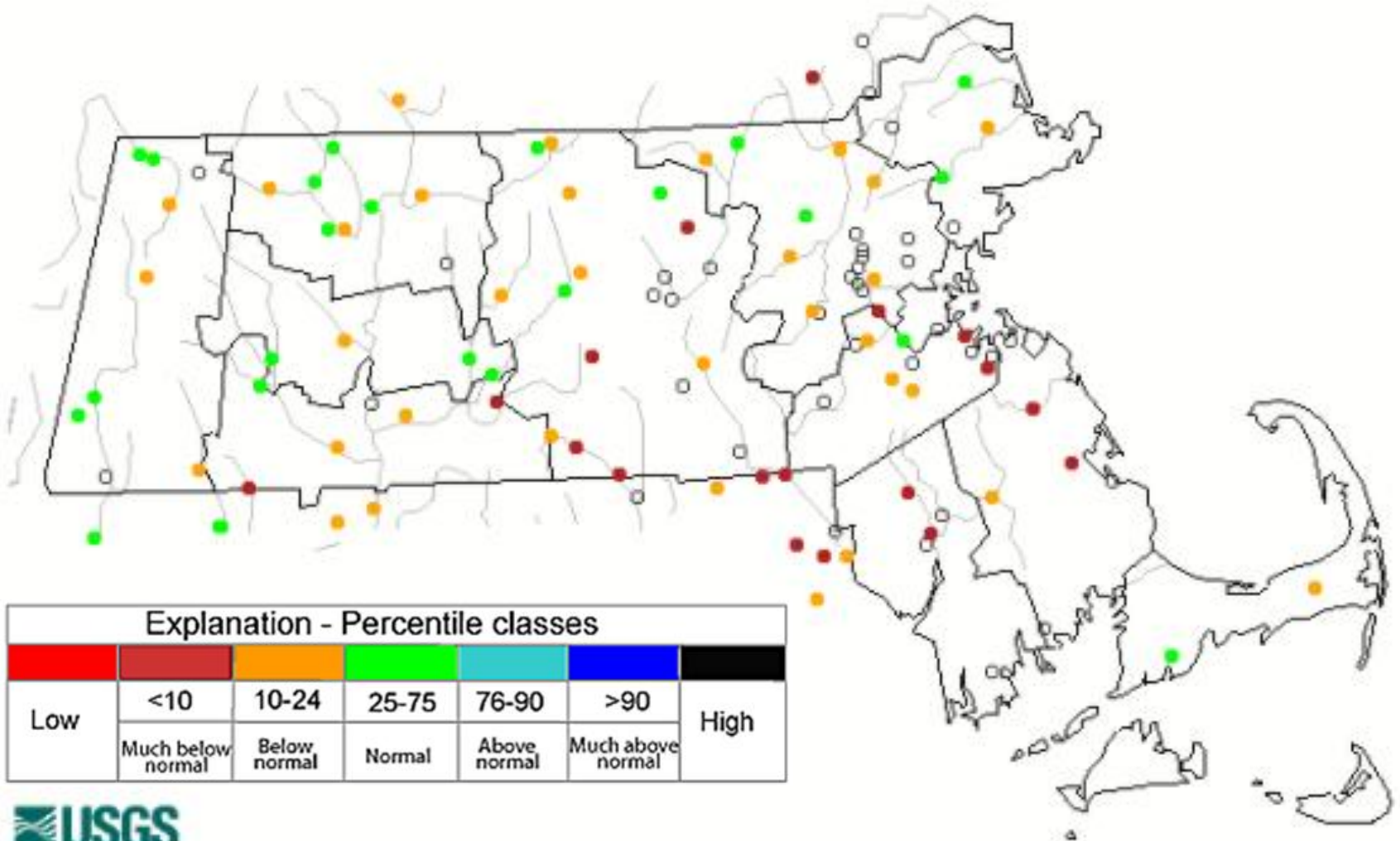
USGS 01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA
 (Drainage area: 282 square miles, length of record: 106 - 107 years)



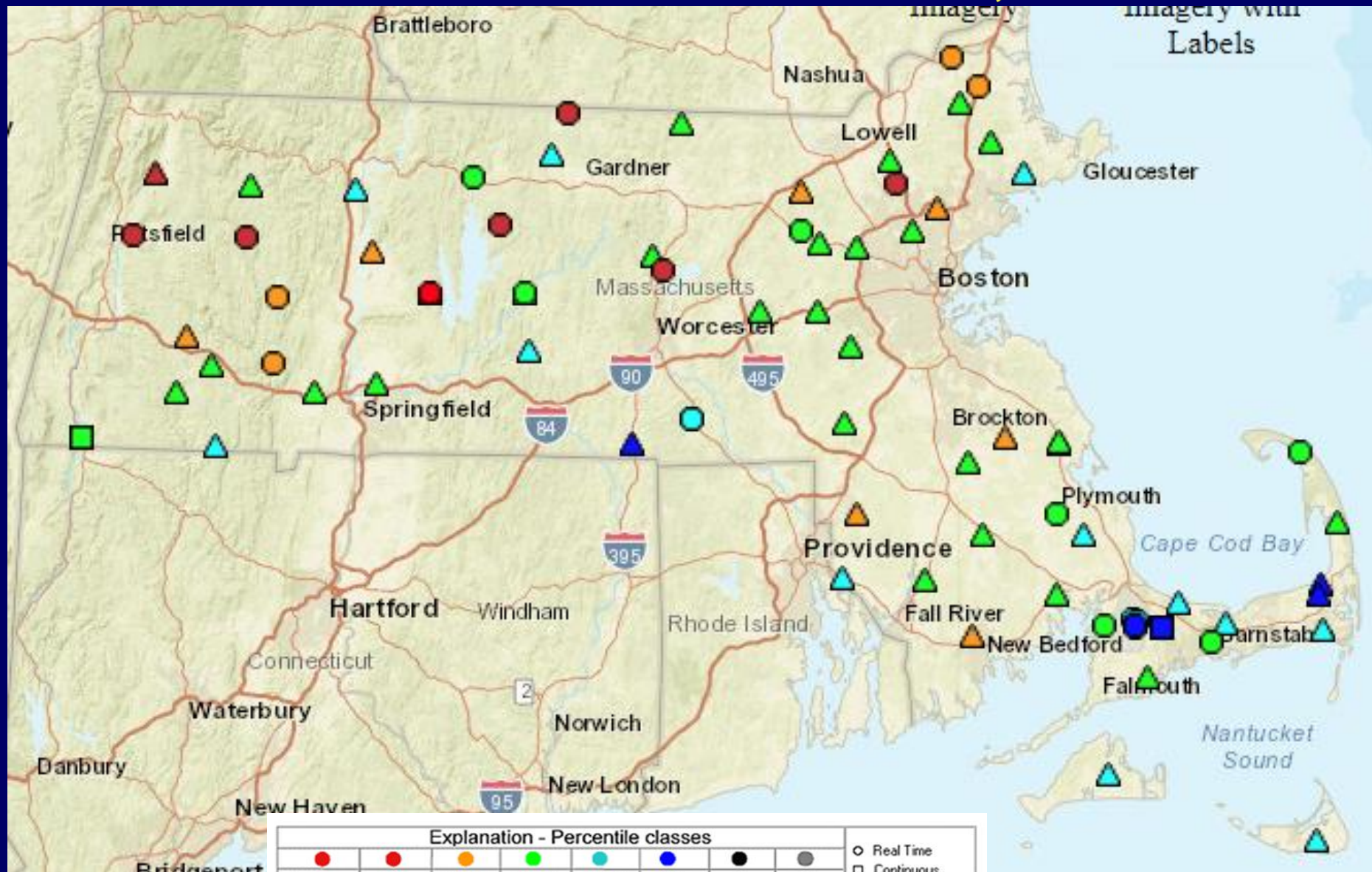
NOV 2018	JAN	MAR	MAY	JUL	SEP	NOV	JAN	MAR	MAY	JUL	SEP
2018						2019			2020		
	Much below normal lowest - 10th percentile			Below normal 10th - 25th percentile			Normal 25th - 75th percentile			5th percentile	
	Above normal 75th - 90th percentile			Much above normal 90th percentile to highest			Discharge (2019 - 2020)				
	95th percentile										

Streamflow Conditions – Aug. 10, 2020

Monday, August 10, 2020

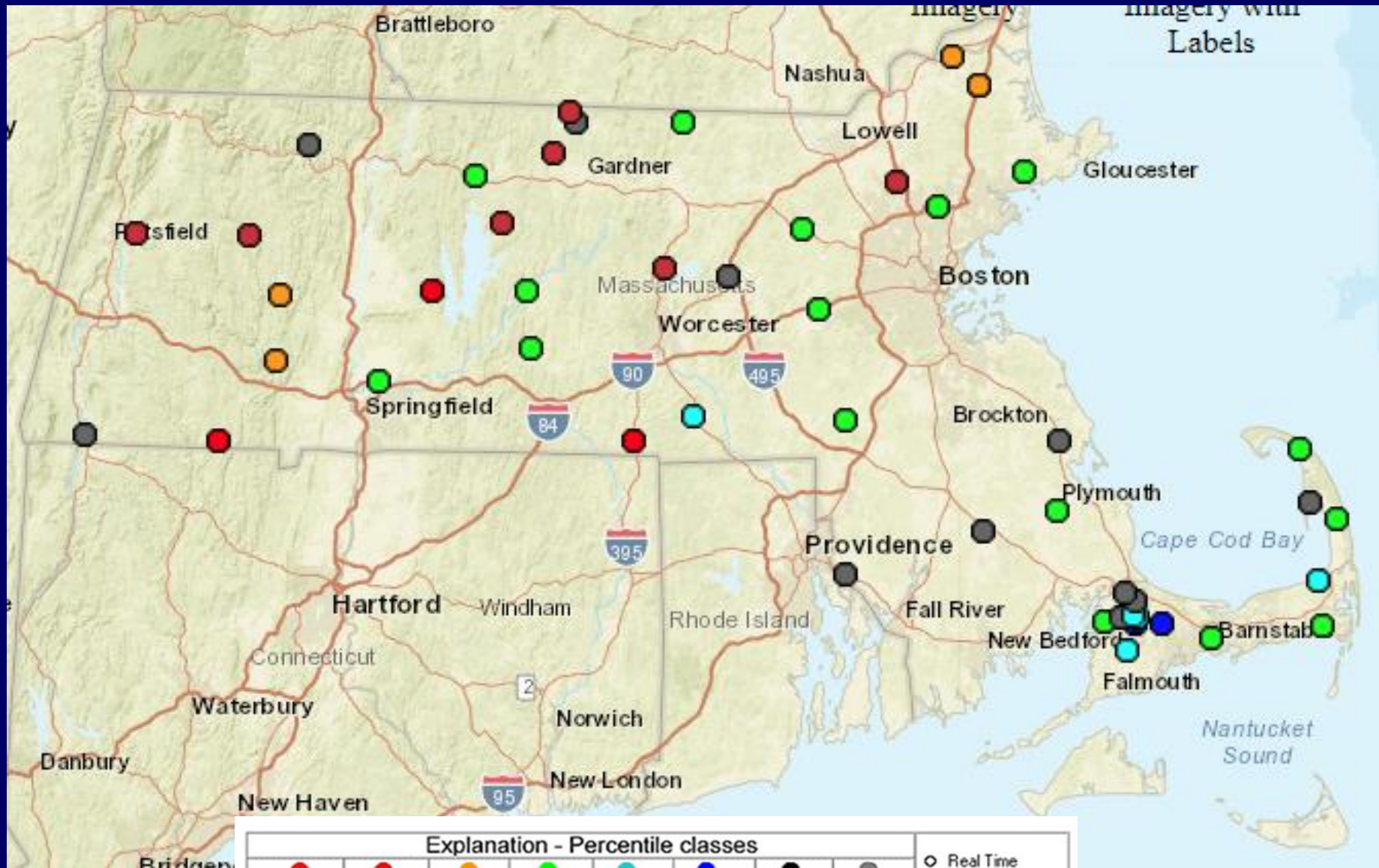


GW Conditions Late June, 2020



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

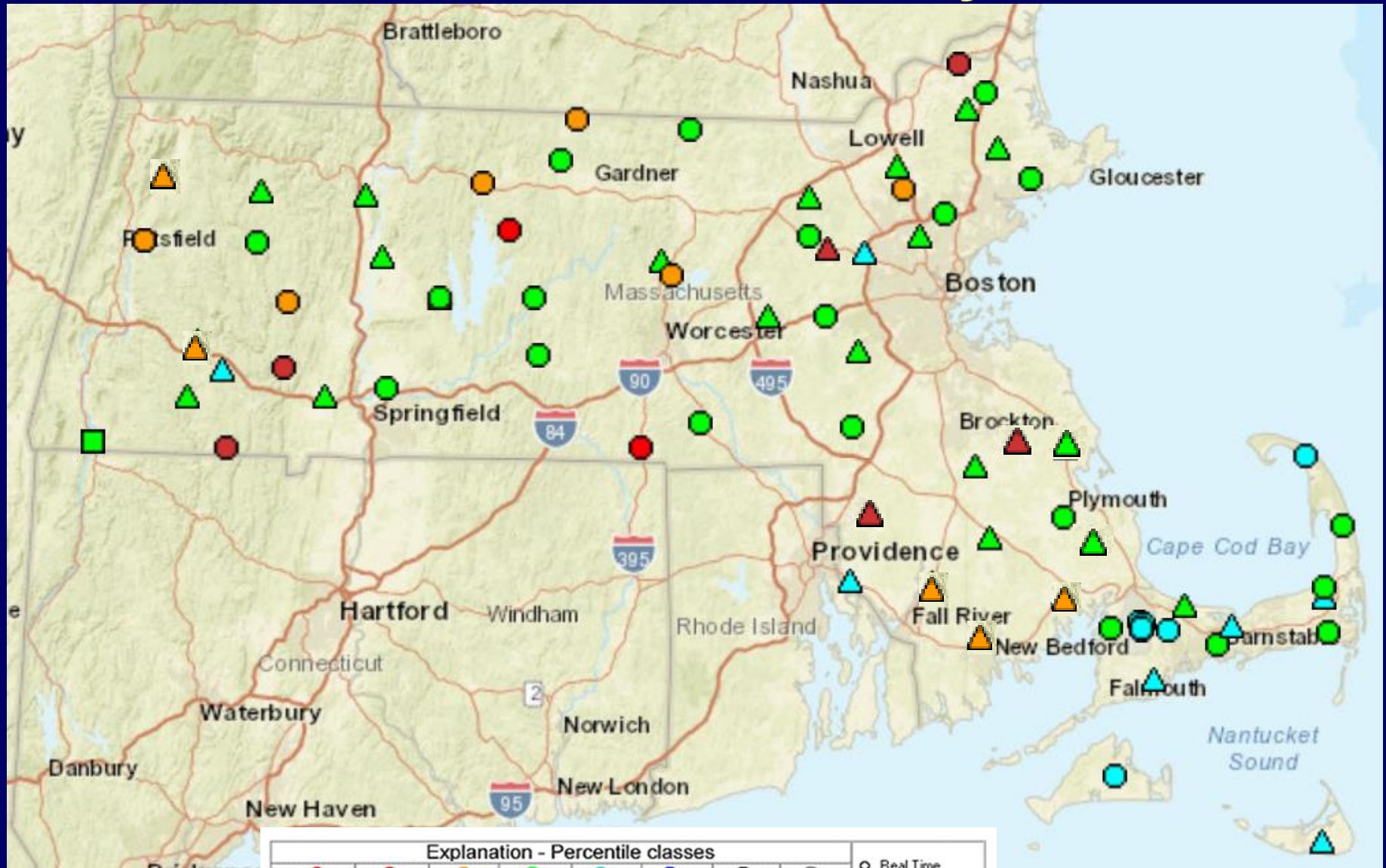
Real-time GW Conditions – June 30, 2020



Explanation - Percentile classes							
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		

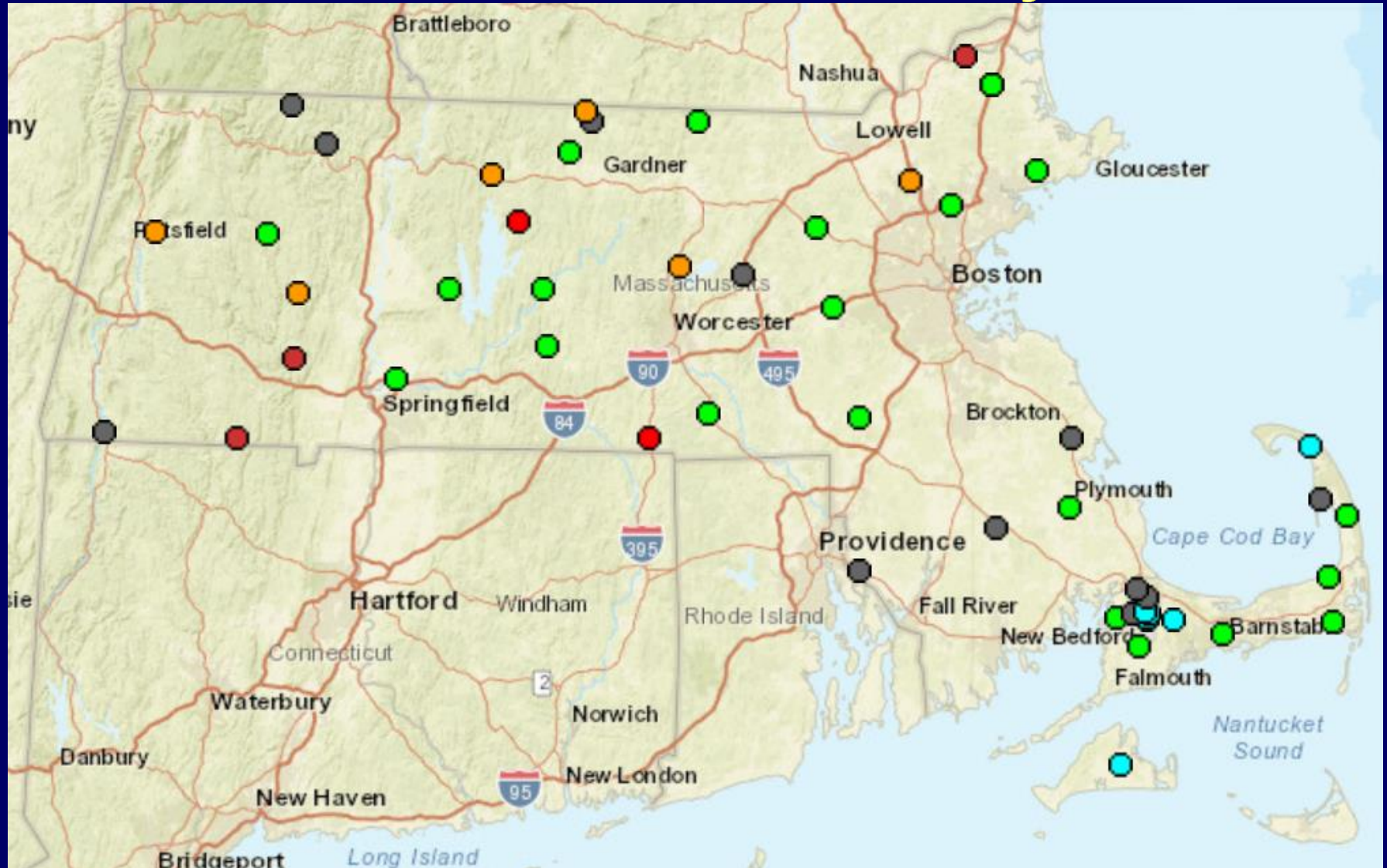
	Real Time
	Continuous
	Periodic Measurements

GW Conditions Late July, 2020



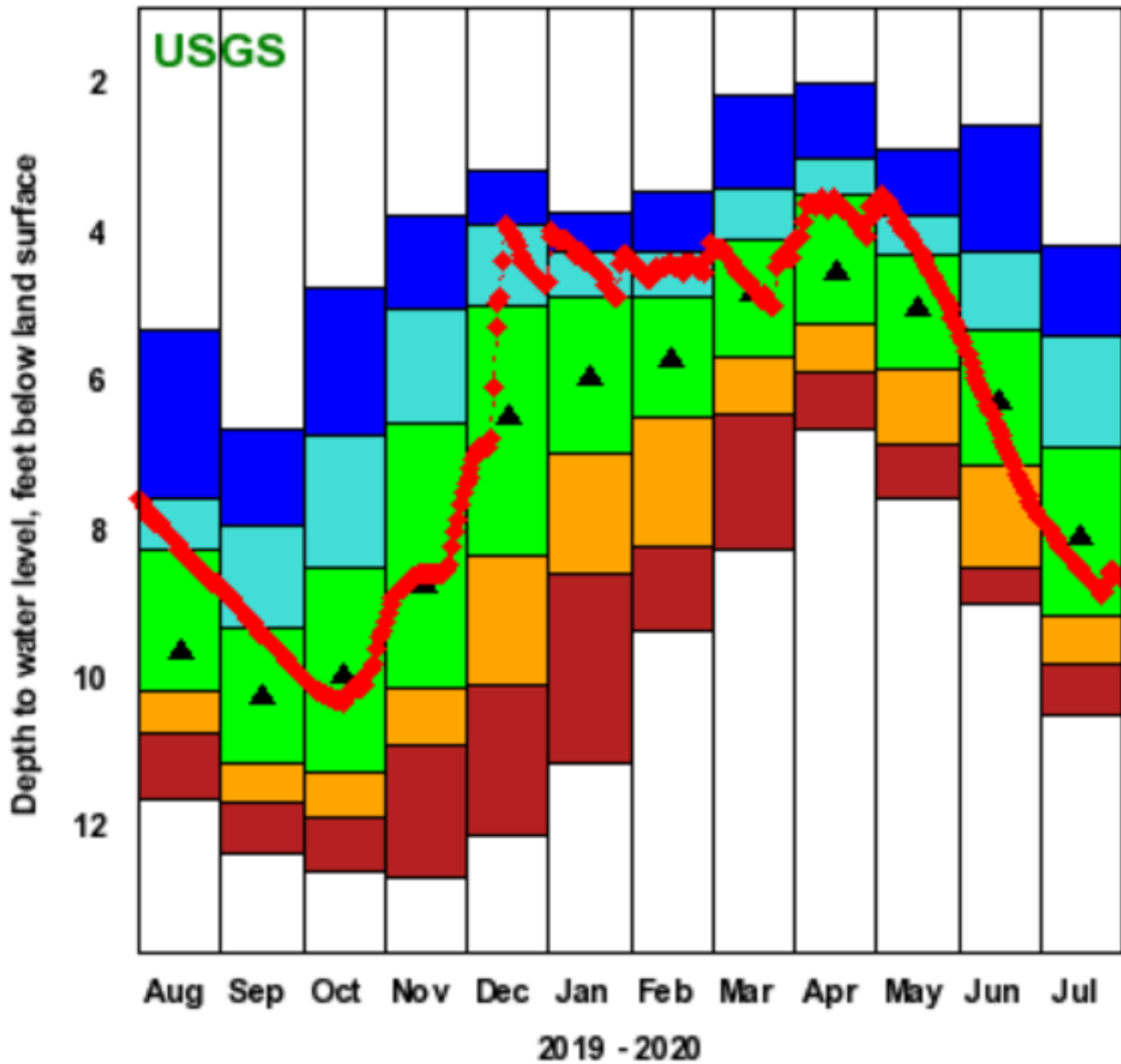
Explanation - Percentile classes							
●	●	●	●	●	●	●	●
New Low	<10 Much Below Normal	10-24 Below Normal	25-75 Normal	76-90 Above Normal	>90 Much Above Normal	New High	Not Ranked
						○ Real Time	□ Continuous
							△ Periodic Measurements

Real-time GW Conditions – July 31, 2020



Explanation - Percentile classes

New Low	<10	10-24	25-75	76-90	>90	New High	Not Ranked	Real Time	Continuous	Periodic Measurements
	Much Below Normal	Below Normal	Normal	Above Normal	Much Above Normal					



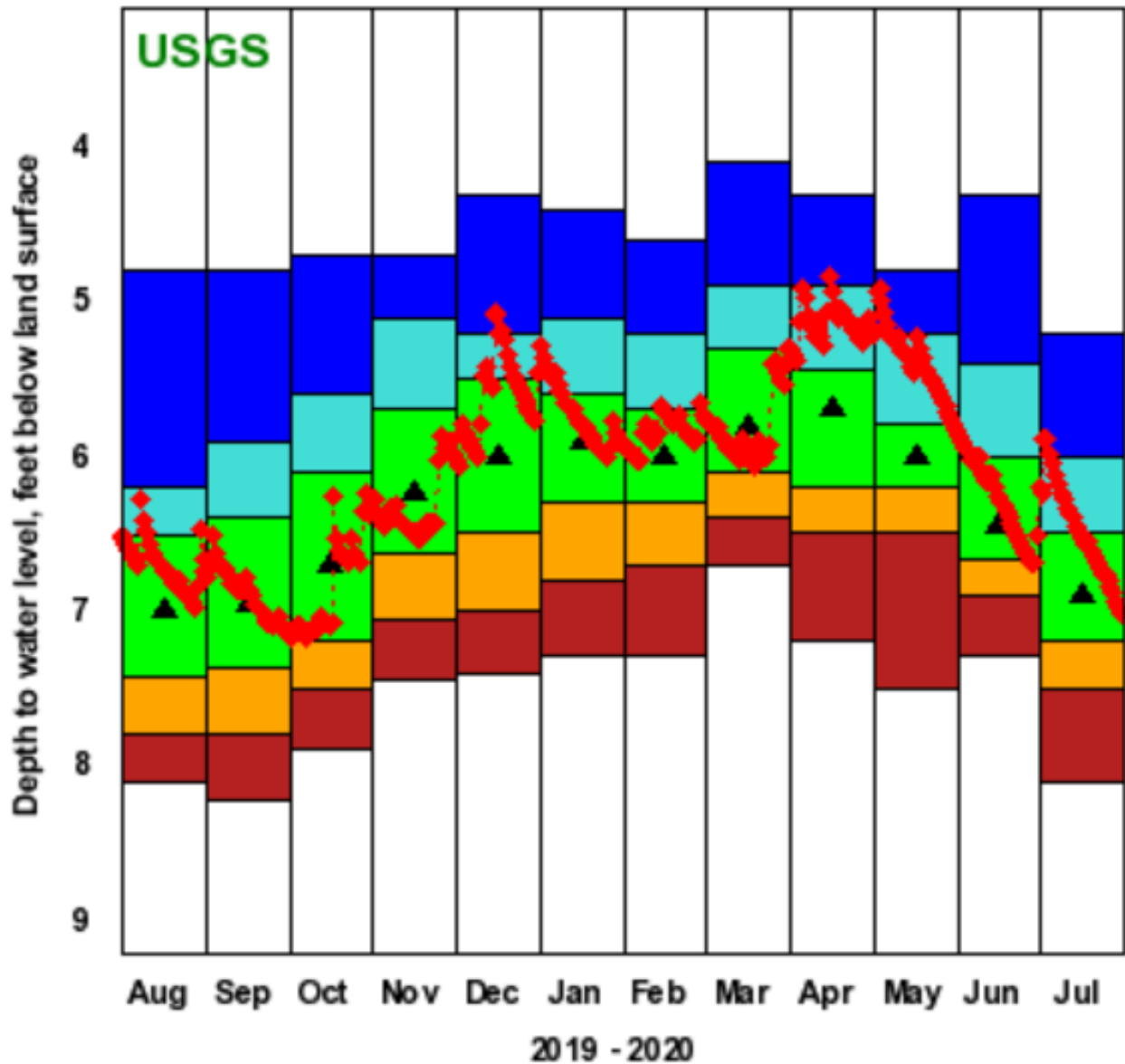
Plot created 07/30/20 19:33

Explanation - Percentile Classes

◆ Data Point

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

▲ Monthly Median

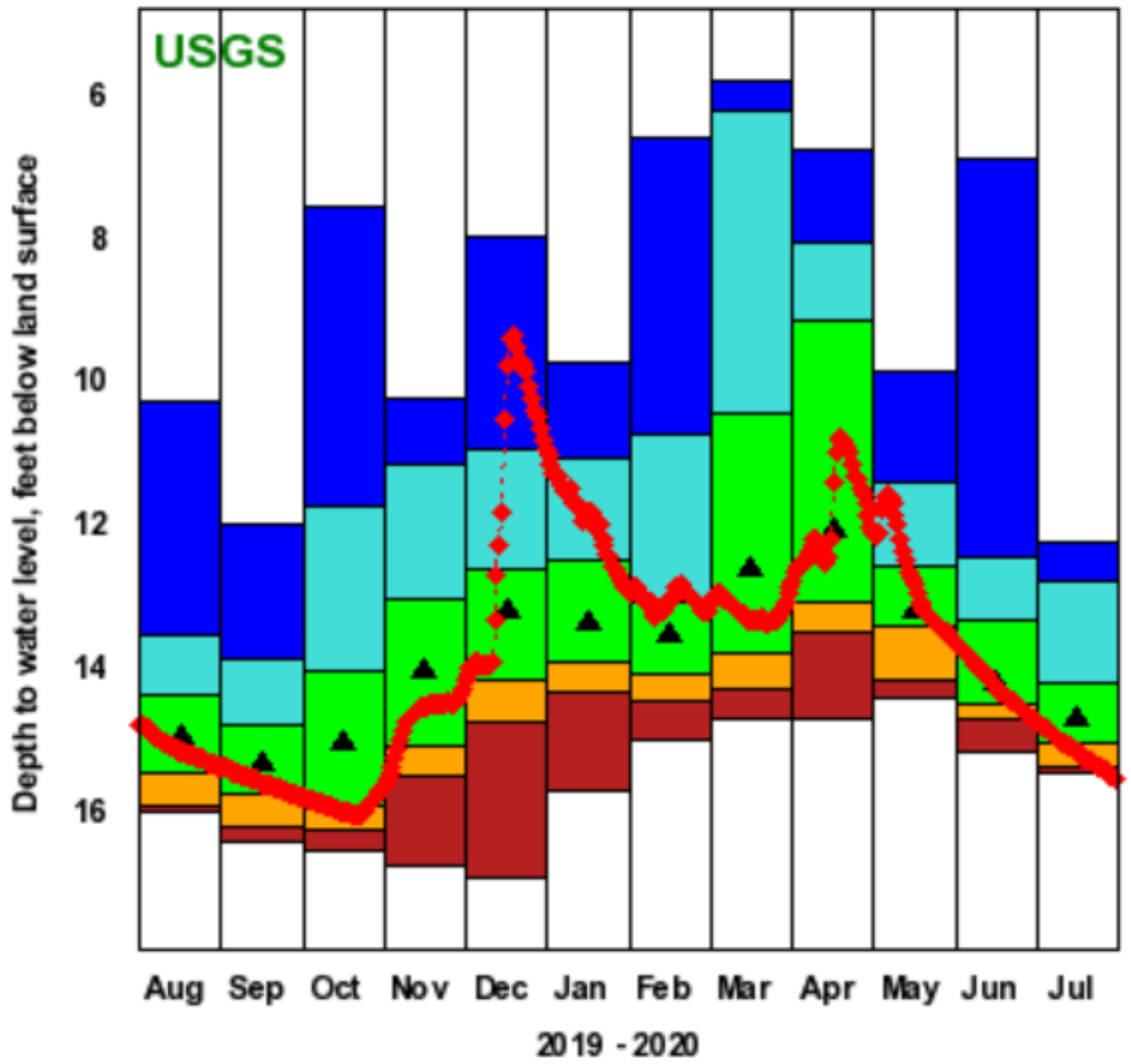


Explanation - Percentile Classes

◆ Data Point

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

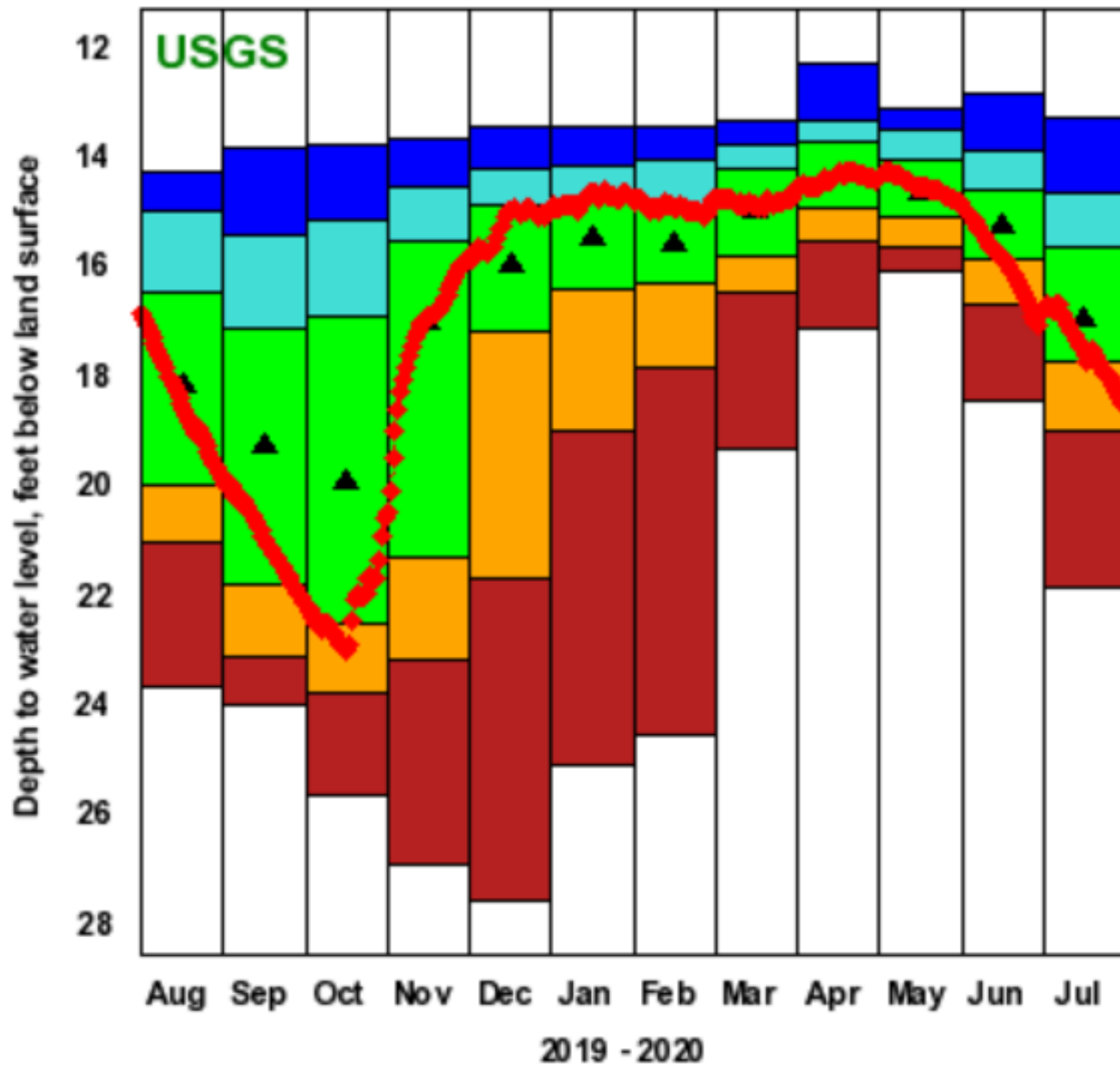
▲ Monthly Median



Plot created 07/30/20 19:32

Explanation - Percentile Classes

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



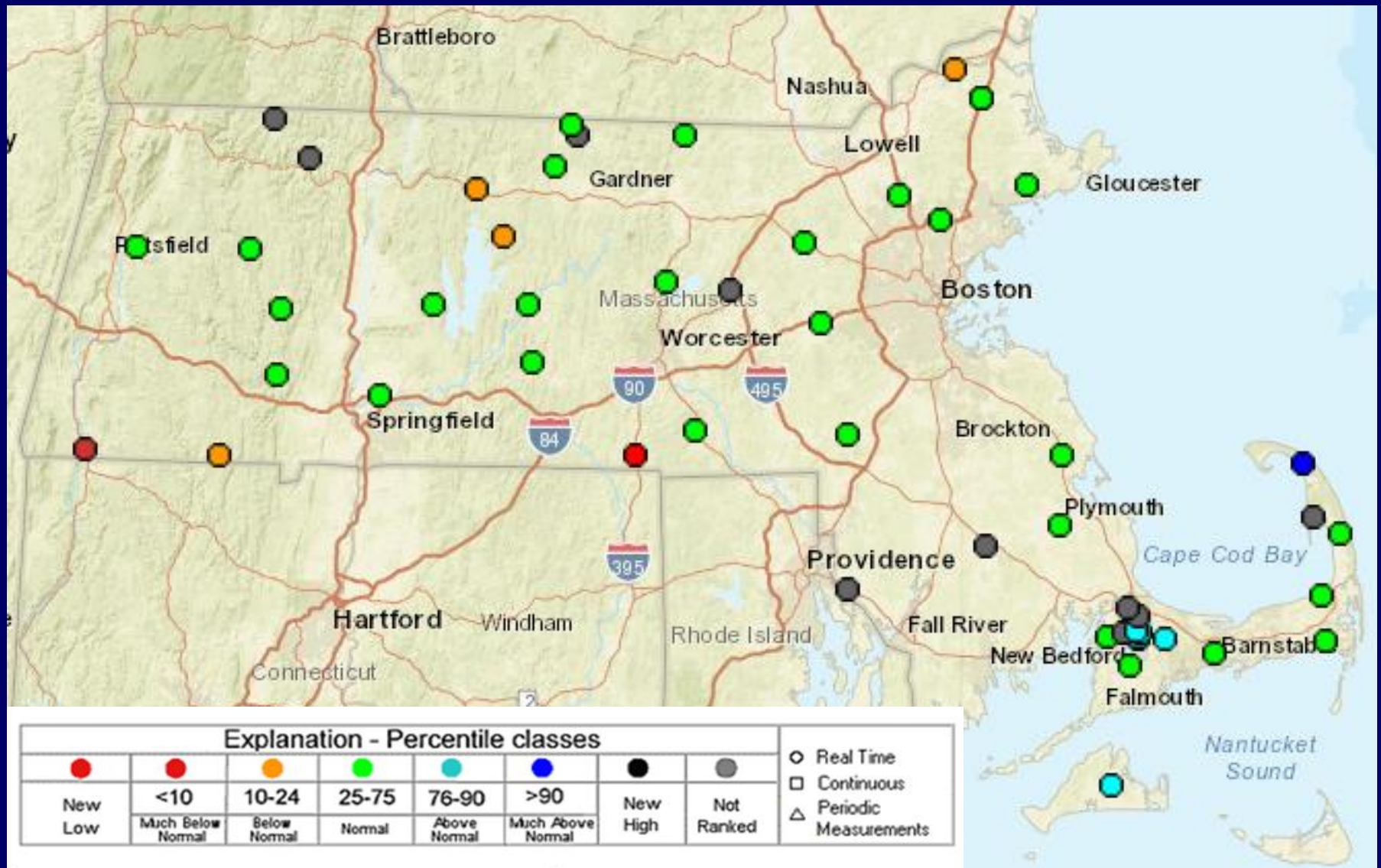
Explanation - Percentile Classes

◆ Data Point

● <10 ● 10-24 ● 25-75 ● 76-90 ● >90

▲ Monthly Median

Groundwater Conditions – Aug. 11, 2020



Questions
