
Streamflow and Groundwater Conditions in Massachusetts

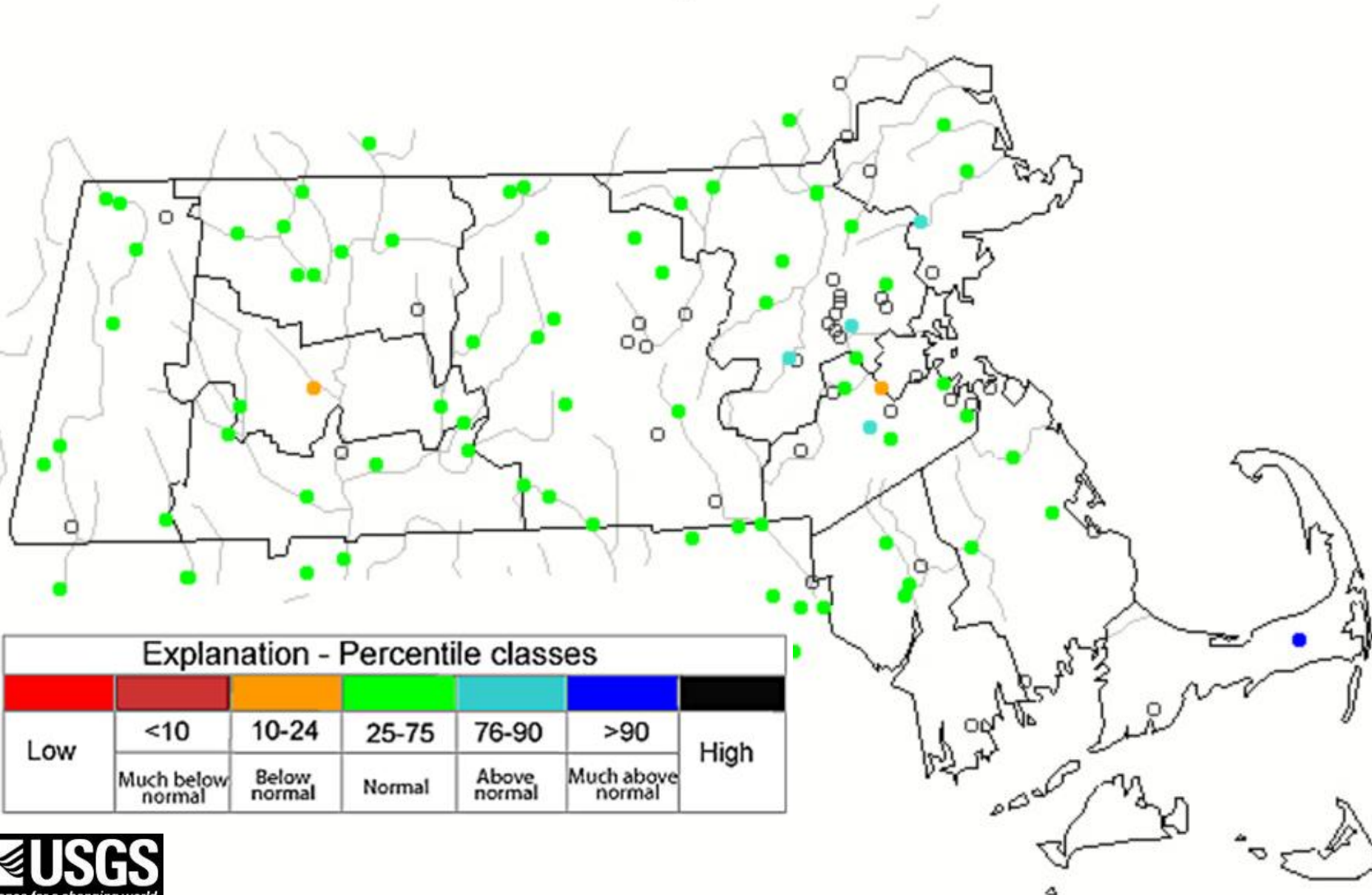
July 12, 2018

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



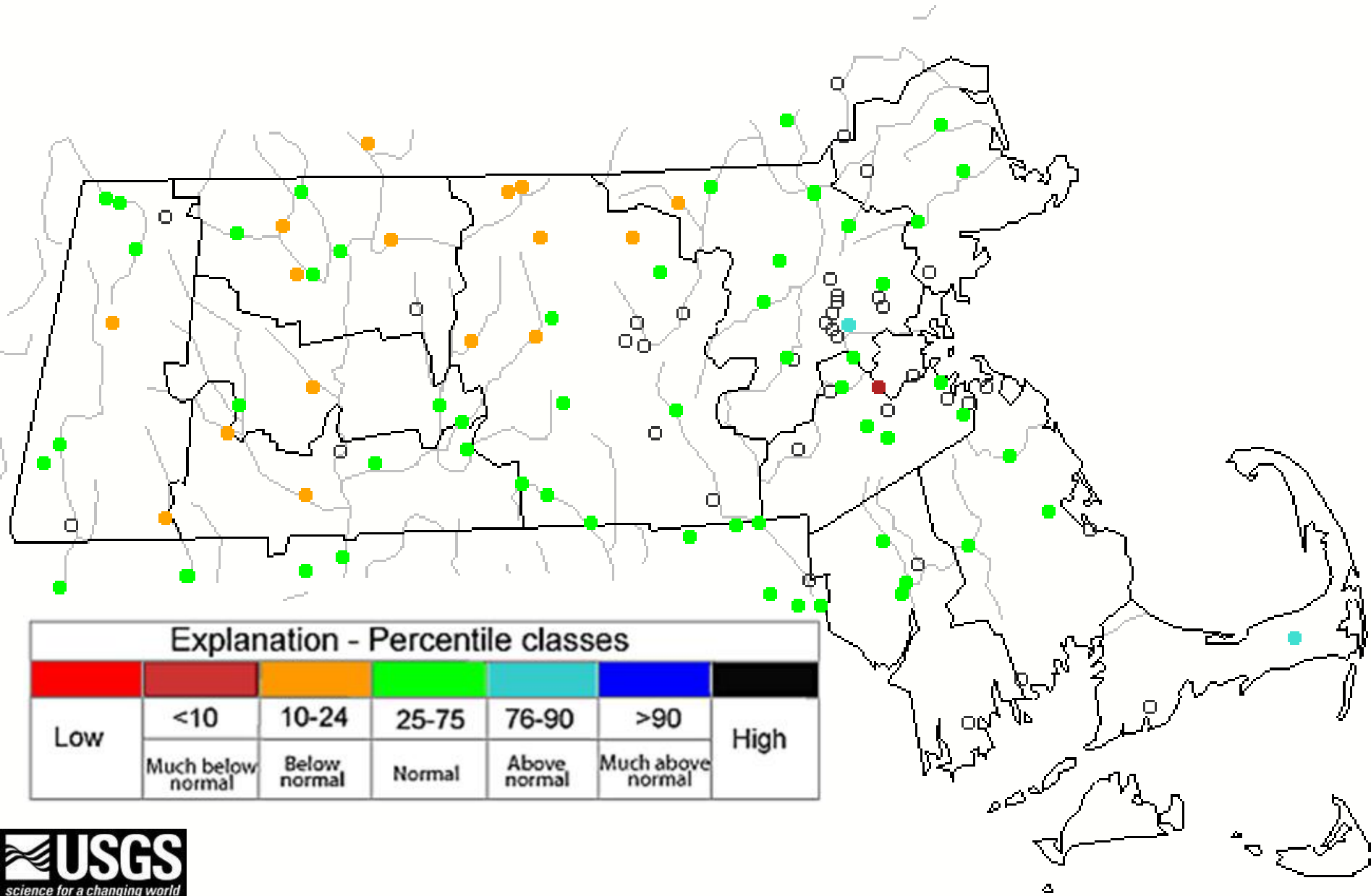
Average Streamflow Conditions – April 2018

April 2018

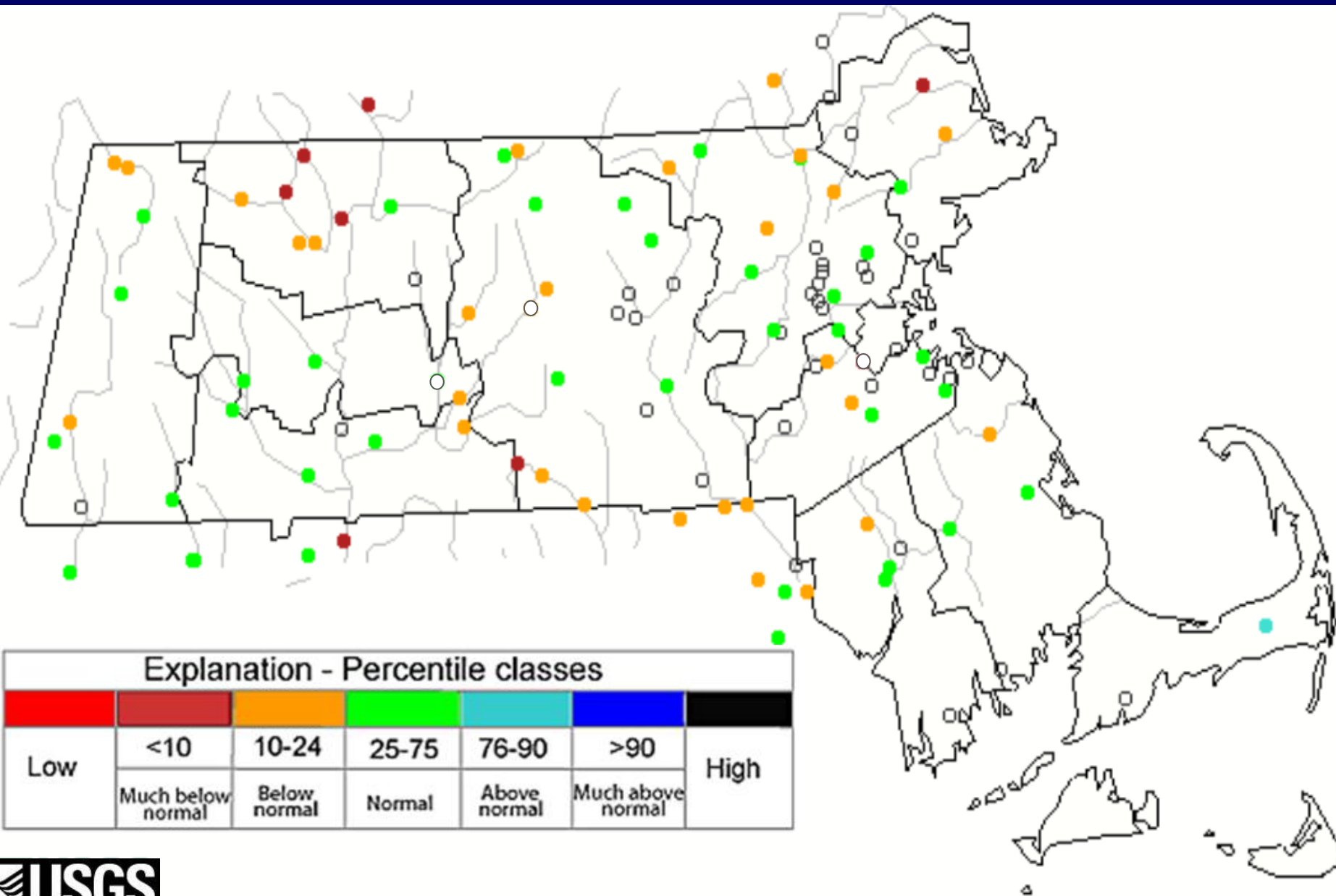


Average Streamflow Conditions – May 2018

May 2018

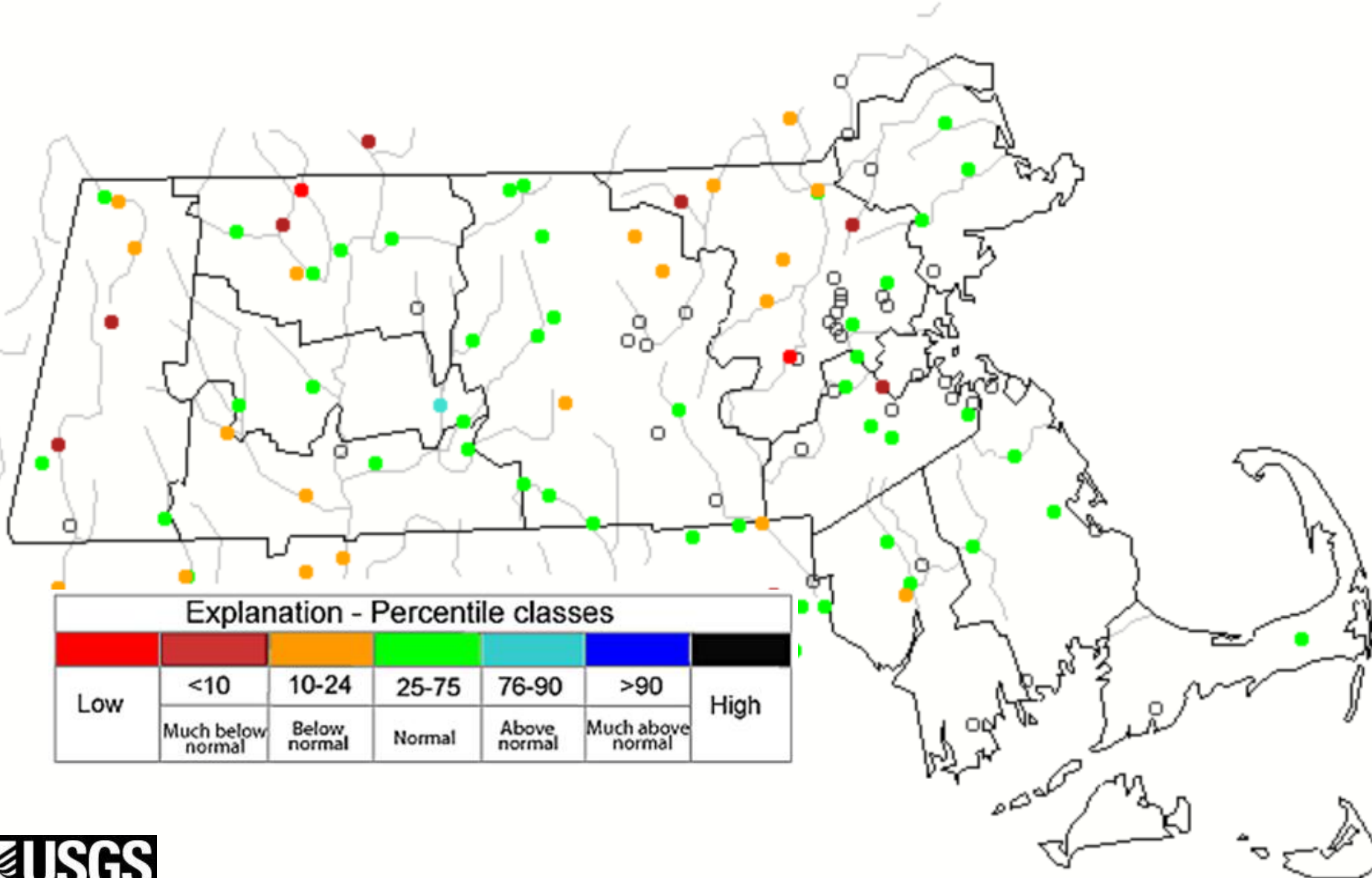


Average Streamflow Conditions – June 2018



Current Streamflow Conditions – July 10, 2018

Tuesday, July 10, 2018

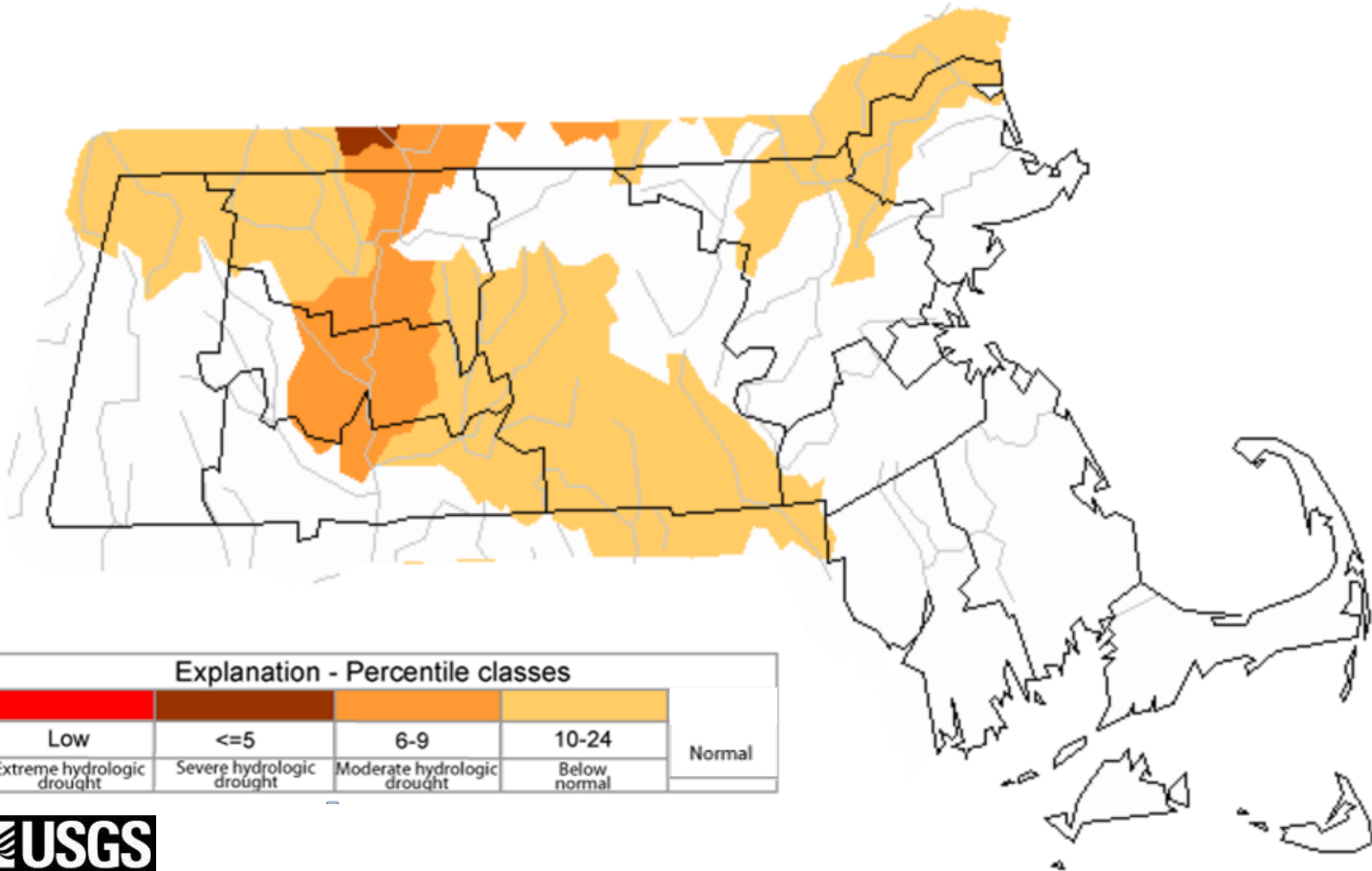


Explanation - Percentile classes

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

Below normal average monthly streamflow – June 2018

June 2018

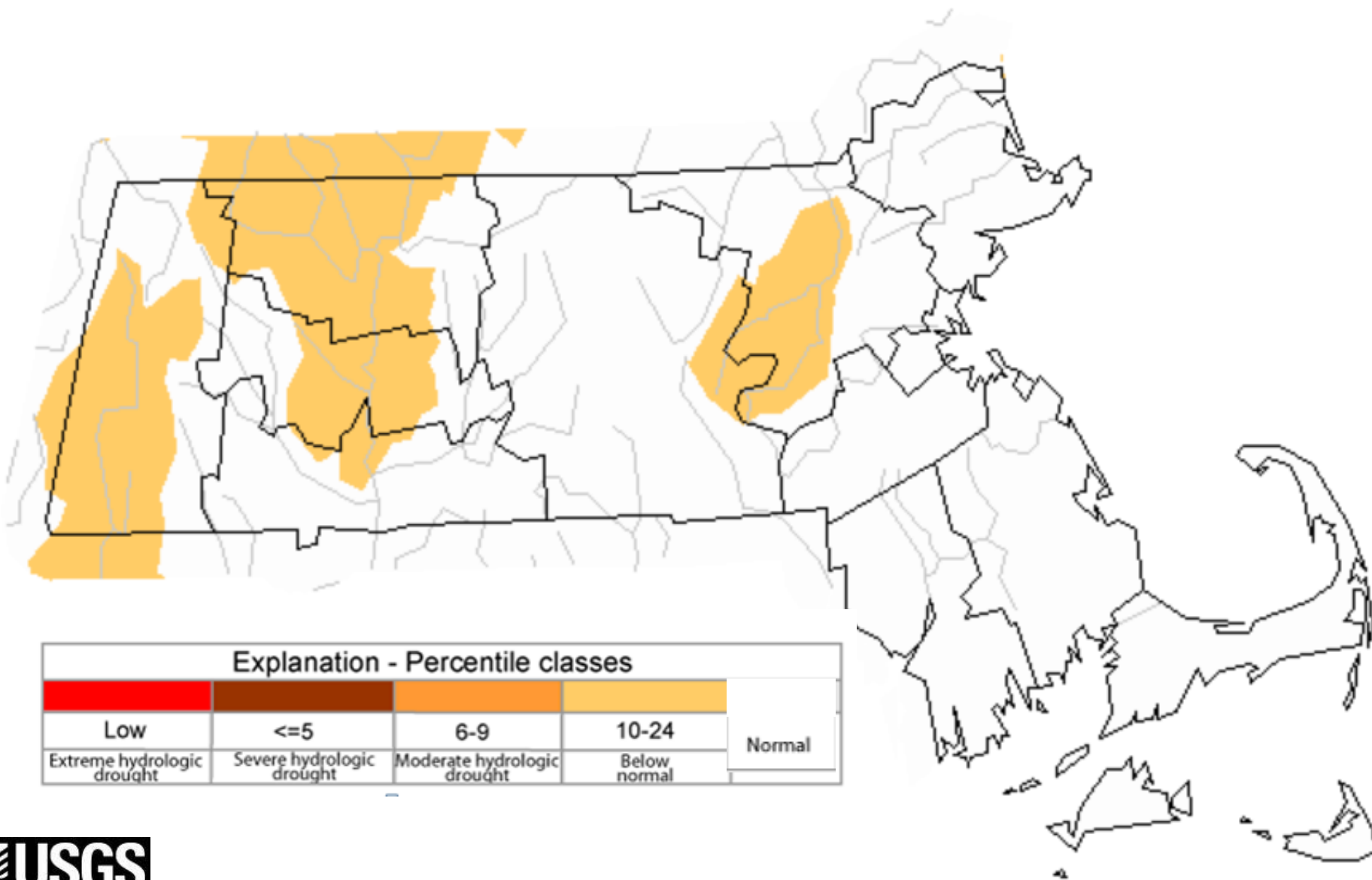


Explanation - Percentile classes

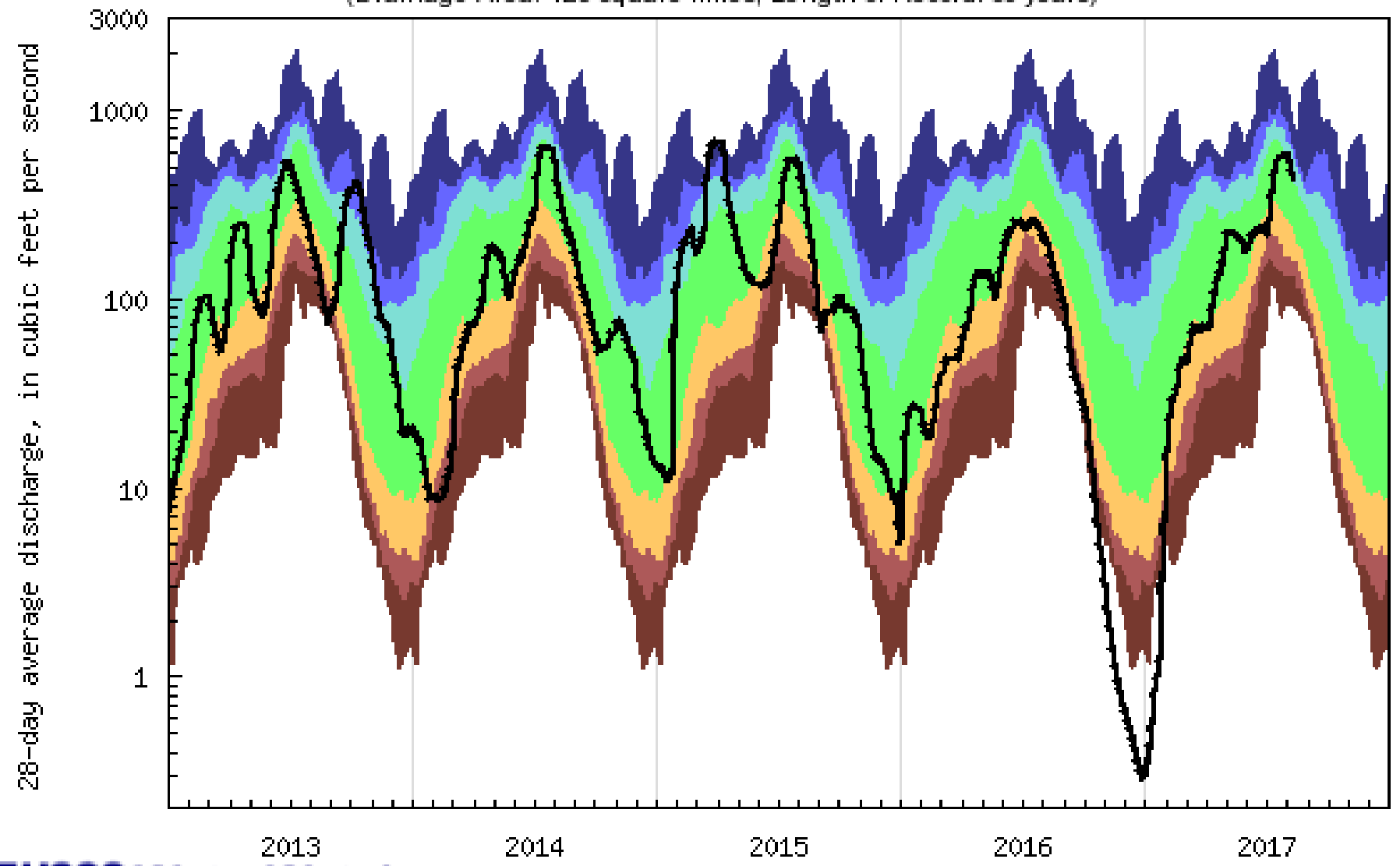
Low	<=5	6-9	10-24	Normal
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	

Below normal 7-day average streamflow – July 10, 2018

Tuesday, July 10, 2018



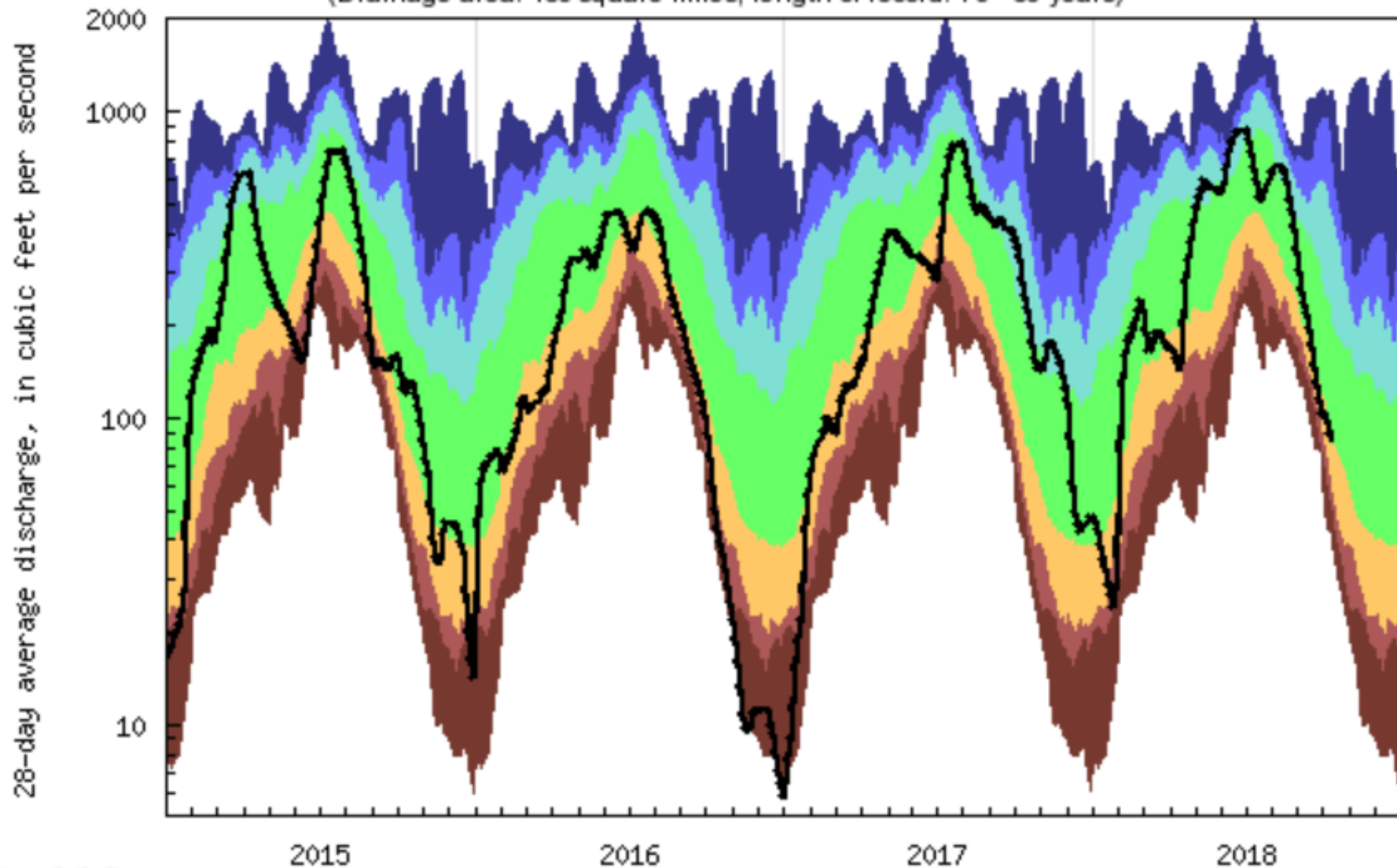
USGS 01102000 IPSWICH RIVER NEAR IPSWICH, MA
 (Drainage Area: 125 square miles, Length of Record: 85 years)



USGS WaterWatch

Explanation - Percentile classes							Flow
lowest-5th percentile	6-9	10-24	25-75	76-90	91-94	95th percentile-highest	
Severe hydrologic drought	Moderate hydrologic drought	Below normal	Normal	Above normal	Much above normal		

USGS 01103500 CHARLES RIVER AT DOVER, MA
 (Drainage area: 183 square miles, length of record: 79 - 80 years)

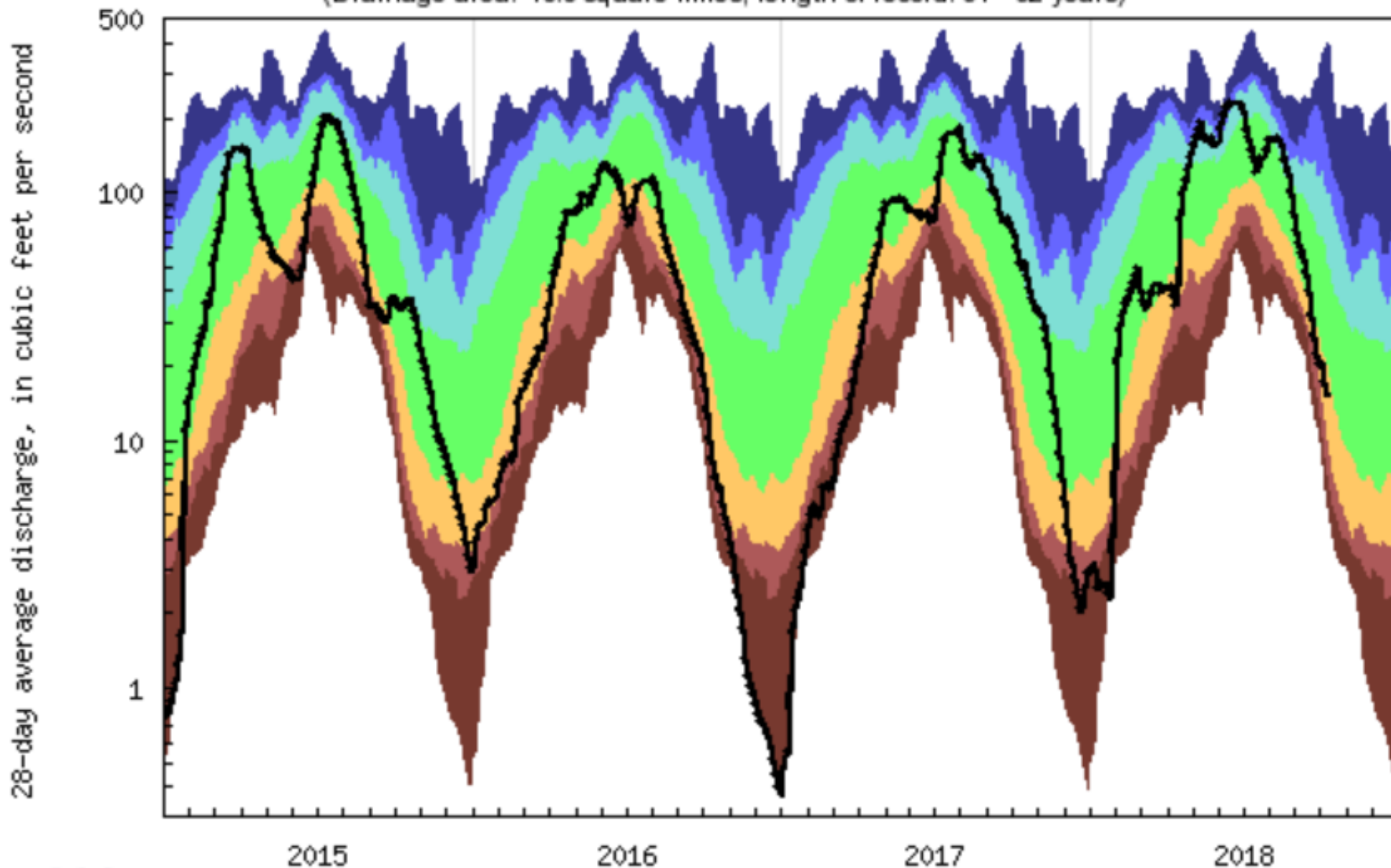


USGS WaterWatch

Explanation - Percentile classes

lowest-5th percentile	6-9	10-24	25-75	76-90	91-94	95th percentile-highest	Flow
Severe hydrologic drought	Moderate hydrologic drought	Below normal	Normal	Above normal	Much above normal		

USGS 01109000 WADING RIVER NEAR NORTON, MA
 (Drainage area: 43.3 square miles, length of record: 91 - 92 years)

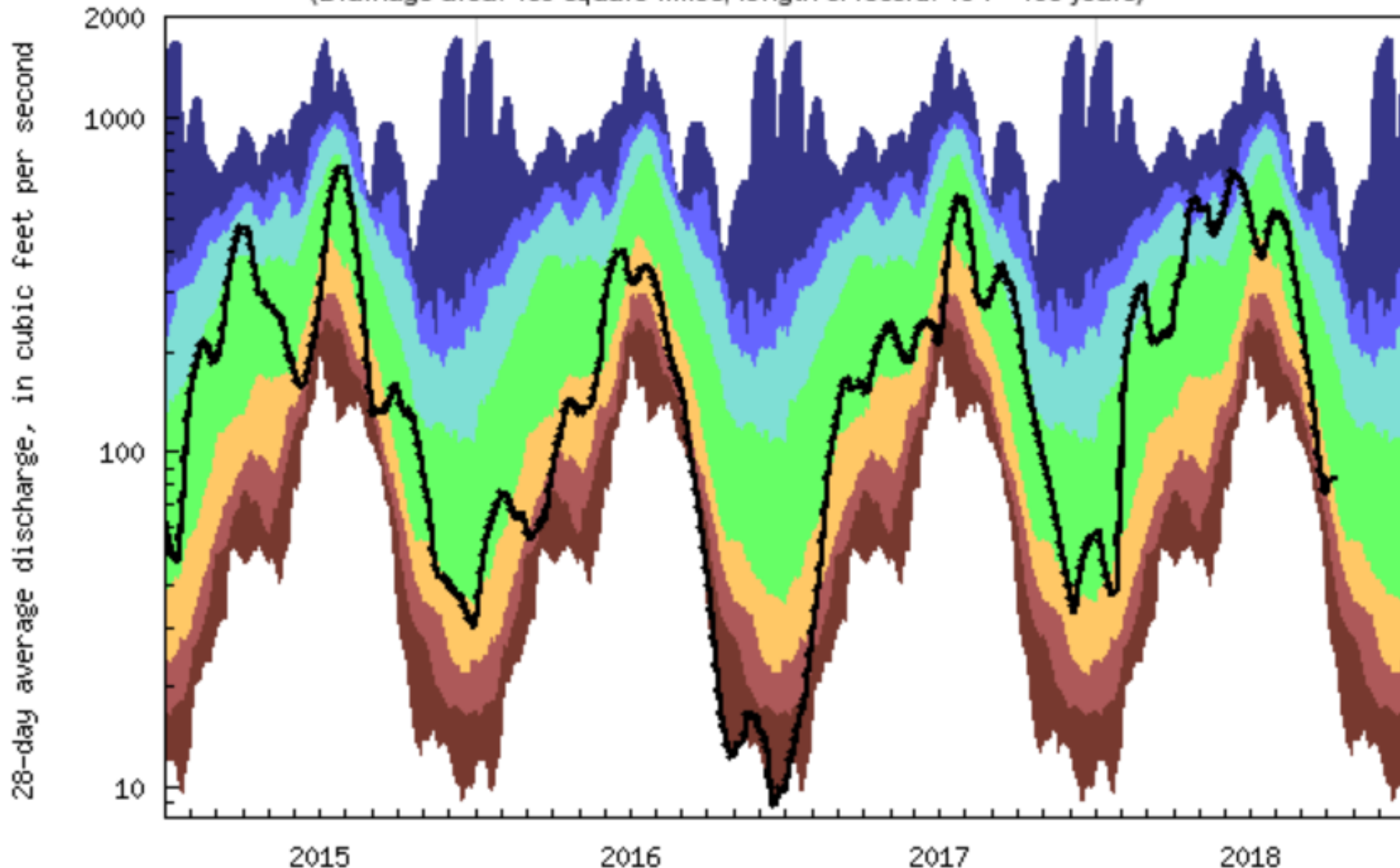


USGS WaterWatch

Explanation - Percentile classes

lowest-5th percentile	6-9	10-24	25-75	76-90	91-94	95th percentile -highest	Flow
Severe hydrologic drought	Moderate hydrologic drought	Below normal	Normal	Above normal	Much above normal		

USGS 01176000 QUABOAG RIVER AT WEST BRIMFIELD, MA
 (Drainage area: 150 square miles, length of record: 104 - 105 years)

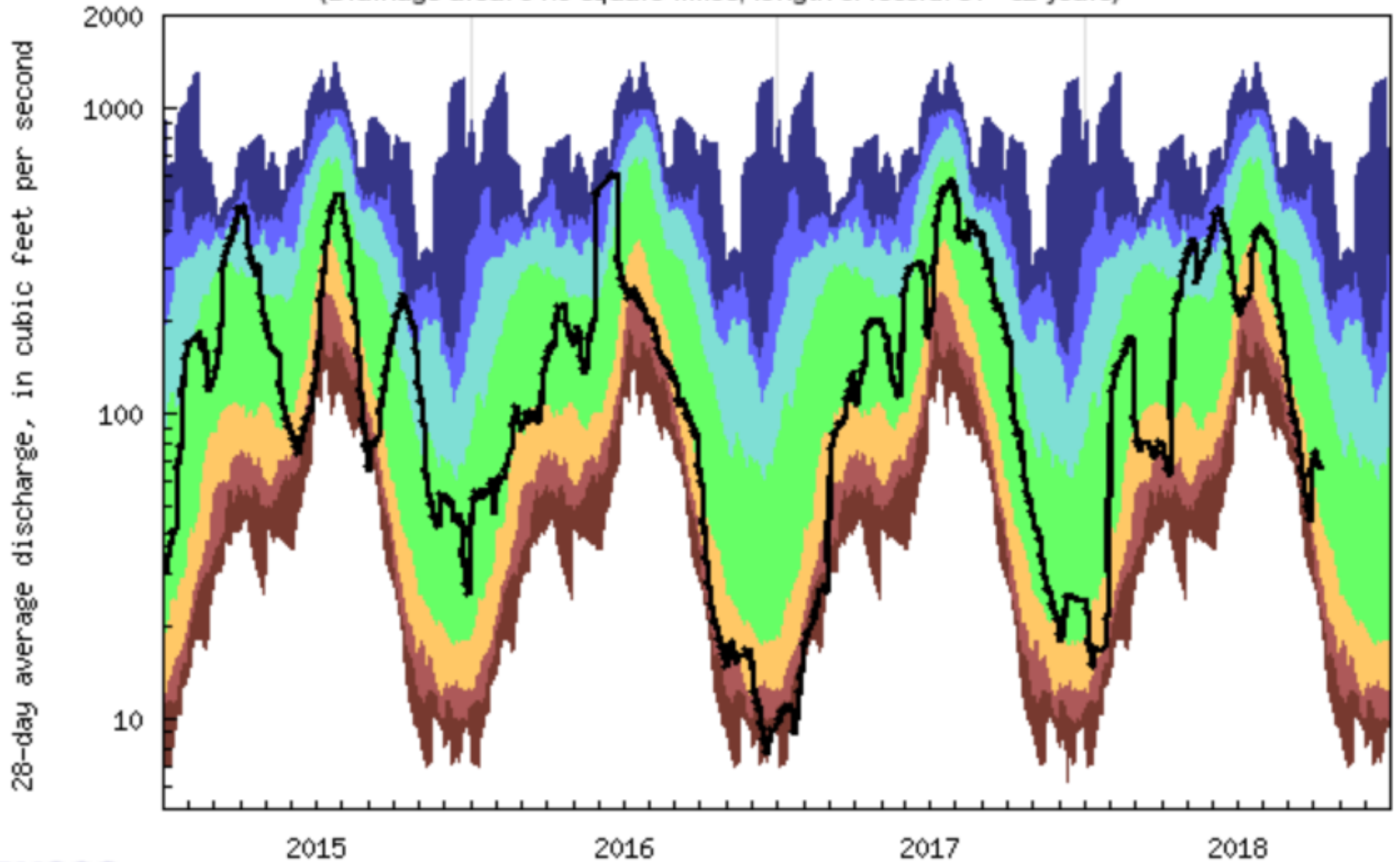


USGS WaterWatch



Explanation - Percentile classes							
lowest-5th percentile	6-9	10-24	25-75	76-90	91-94	95th percentile-highest	Flow
Severe hydrologic drought	Moderate hydrologic drought	Below normal	Normal	Above normal	Much above normal		

USGS 01181000 WEST BRANCH WESTFIELD RIVER AT HUNTINGTON, MA
 (Drainage area: 94.0 square miles, length of record: 81 - 82 years)

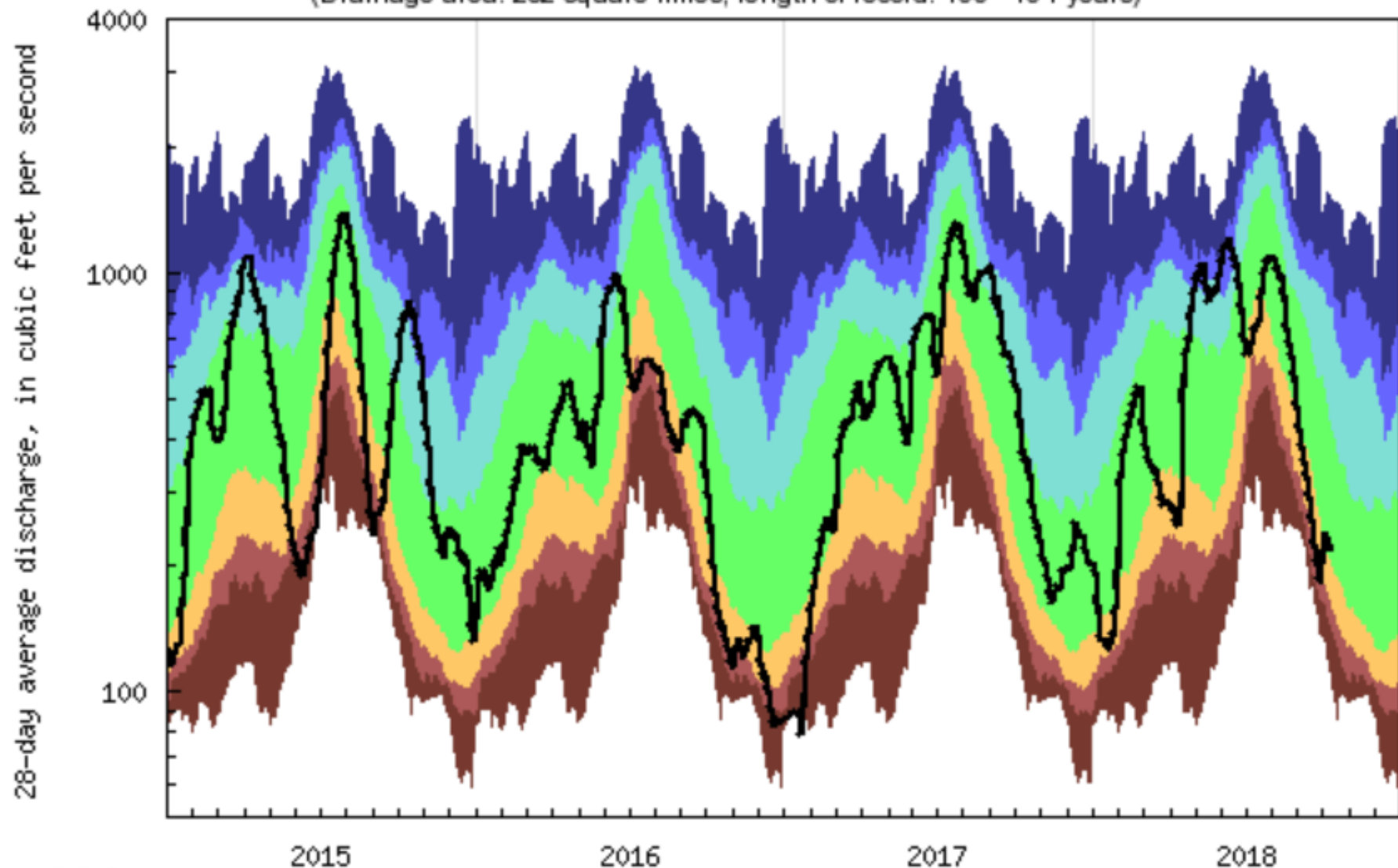


USGS WaterWatch

Explanation - Percentile classes

lowest-5th percentile	6-9	10-24	25-75	76-90	91-94	95th percentile -highest	Flow
Severe hydrologic drought	Moderate hydrologic drought	Below normal	Normal	Above normal	Much above normal		

USGS 01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA
 (Drainage area: 282 square miles, length of record: 103 - 104 years)

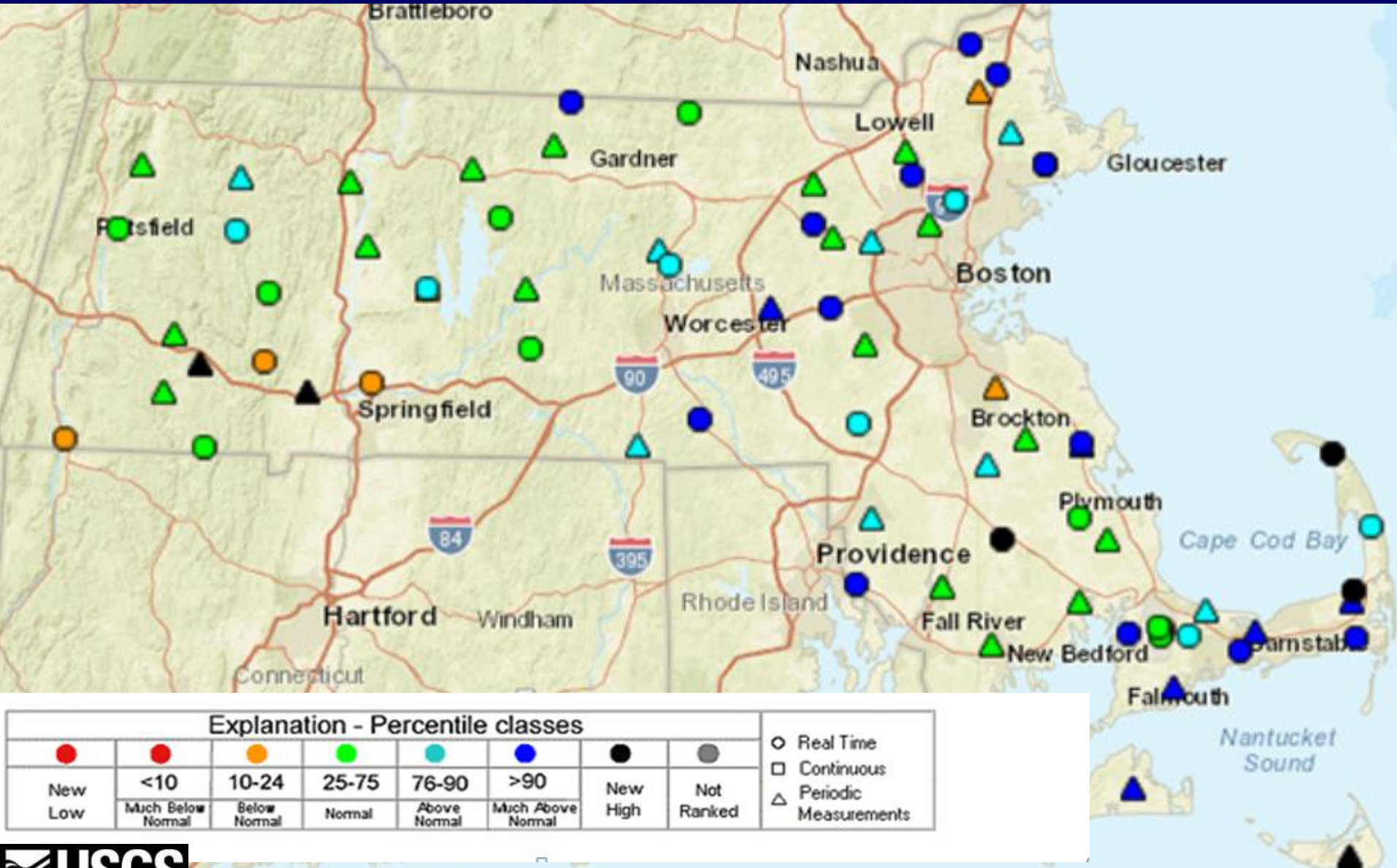


USGS WaterWatch

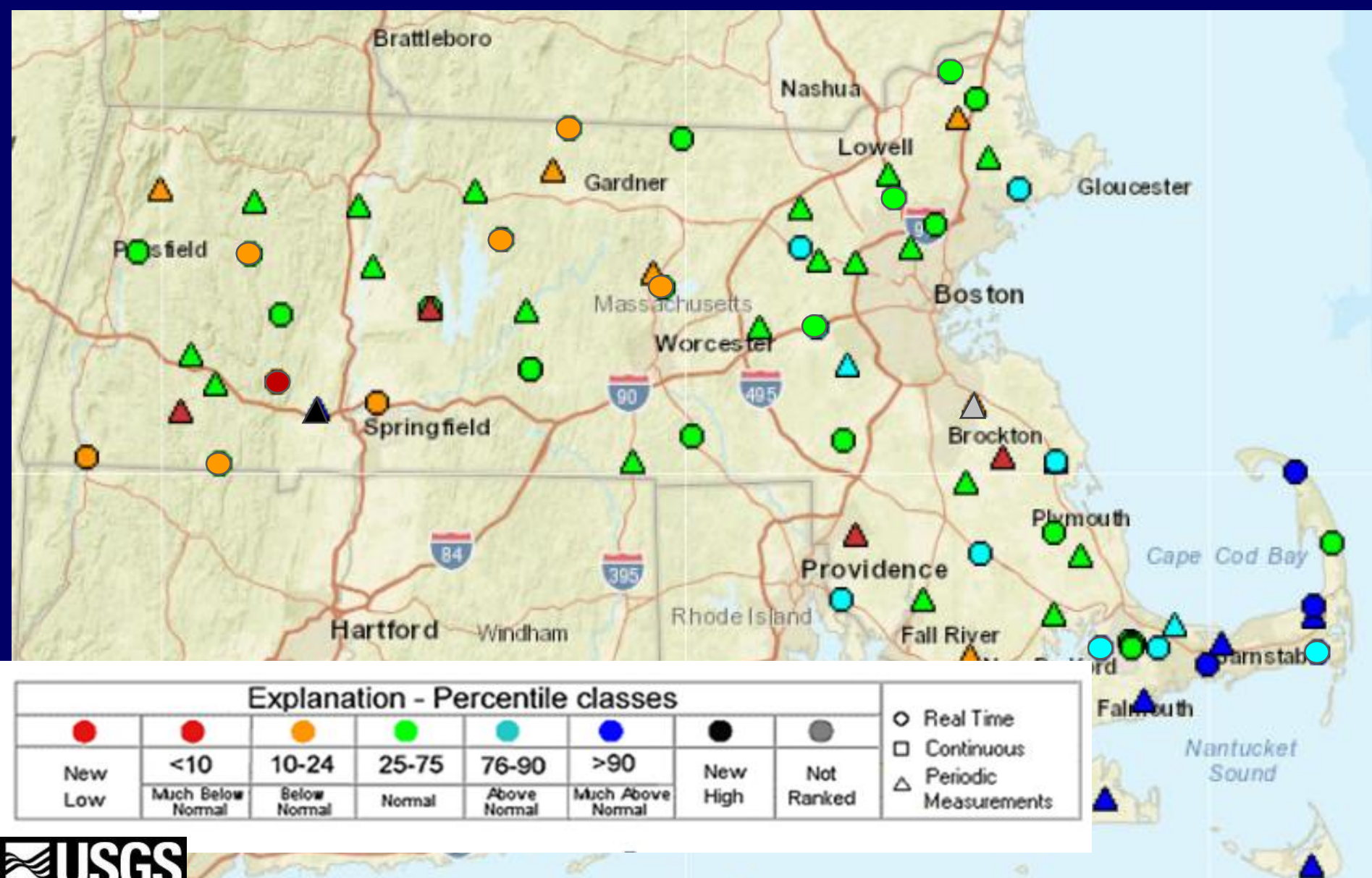
Explanation - Percentile classes

lowest-5th percentile	6-9	10-24	25-75	76-90	91-94	95th percentile -highest	Flow
Severe hydrologic drought	Moderate hydrologic drought	Below normal	Normal	Above normal	Much above normal		

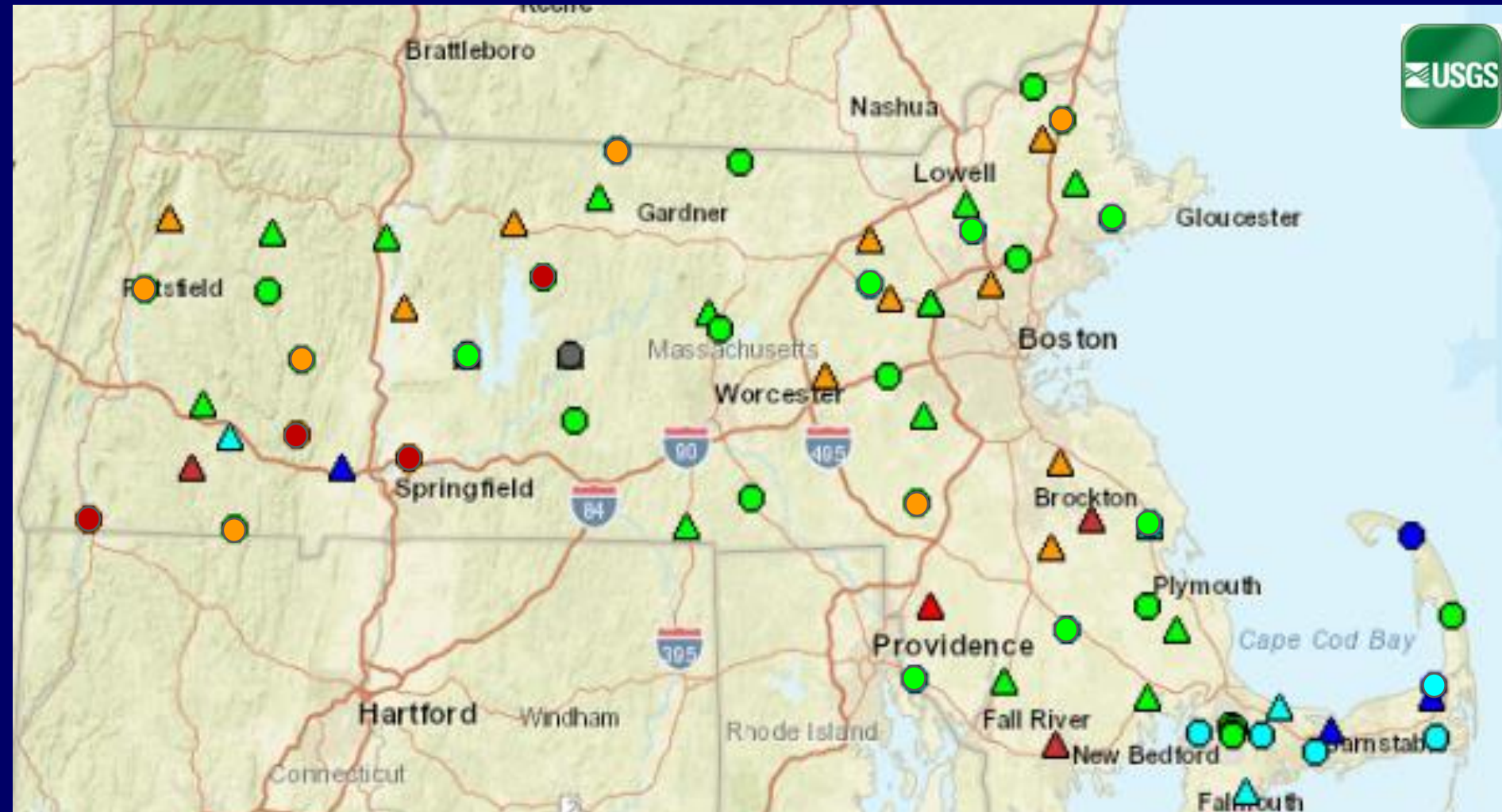
Groundwater Conditions During April 2018



Groundwater Conditions During May 2018

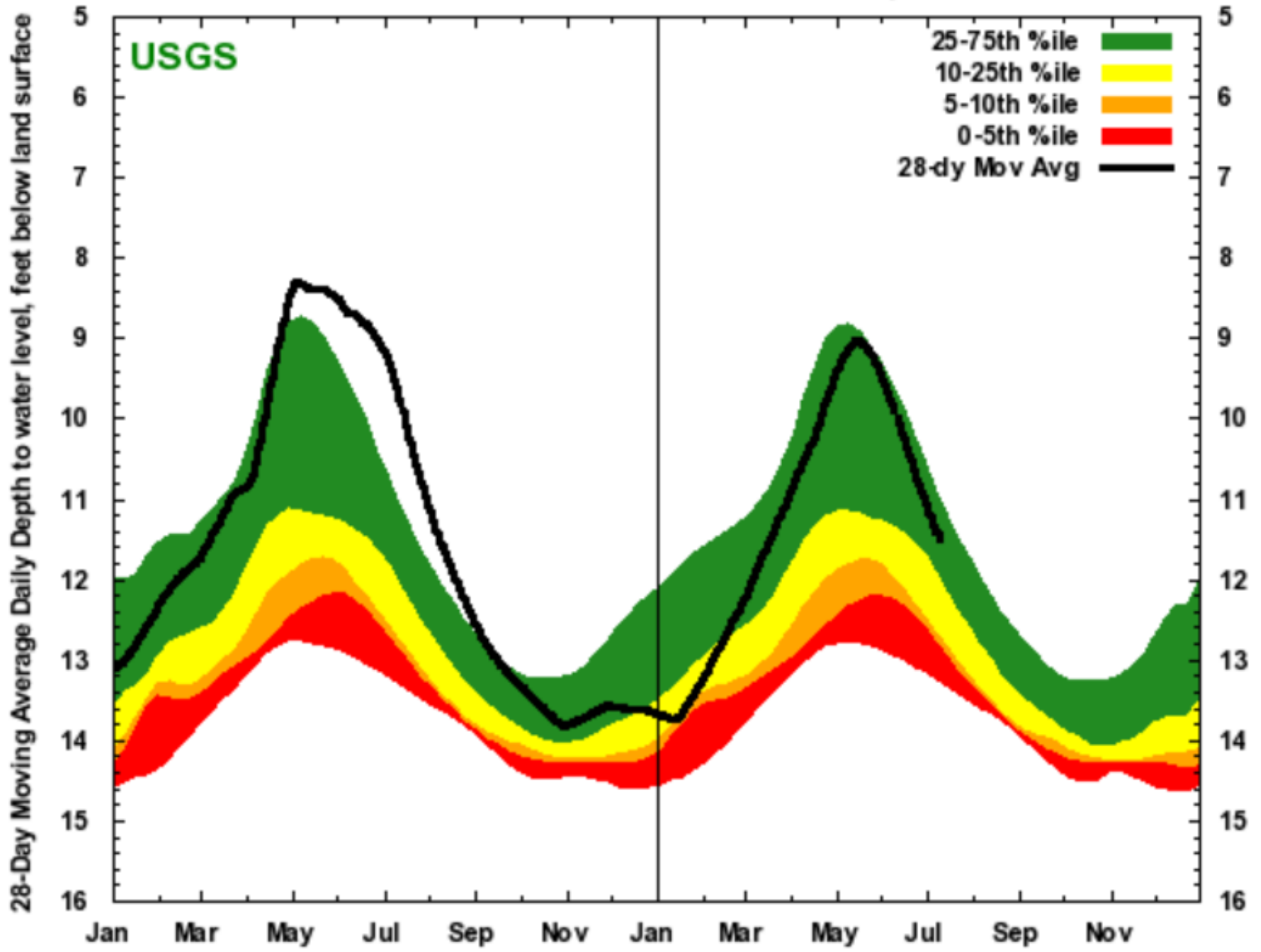


Groundwater Conditions During June 2018



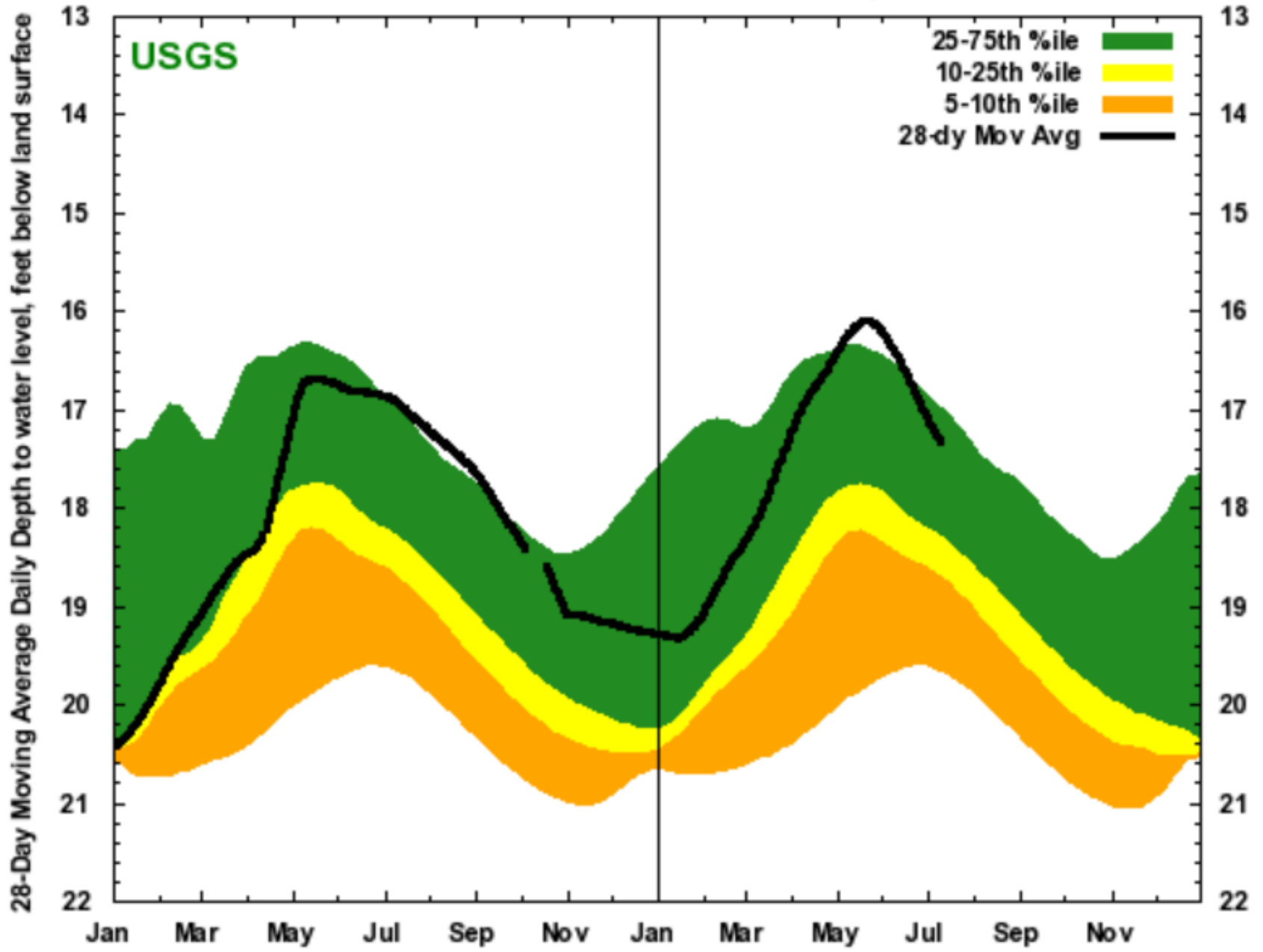
Explanation - Percentile classes

									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



USGS

- 25-75th %ile
- 10-25th %ile
- 5-10th %ile
- 0-5th %ile
- 28-dy Mov Avg



USGS

- 25-75th %ile
- 10-25th %ile
- 5-10th %ile
- 28-dy Mov Avg

