
Streamflow and Groundwater Conditions in Massachusetts

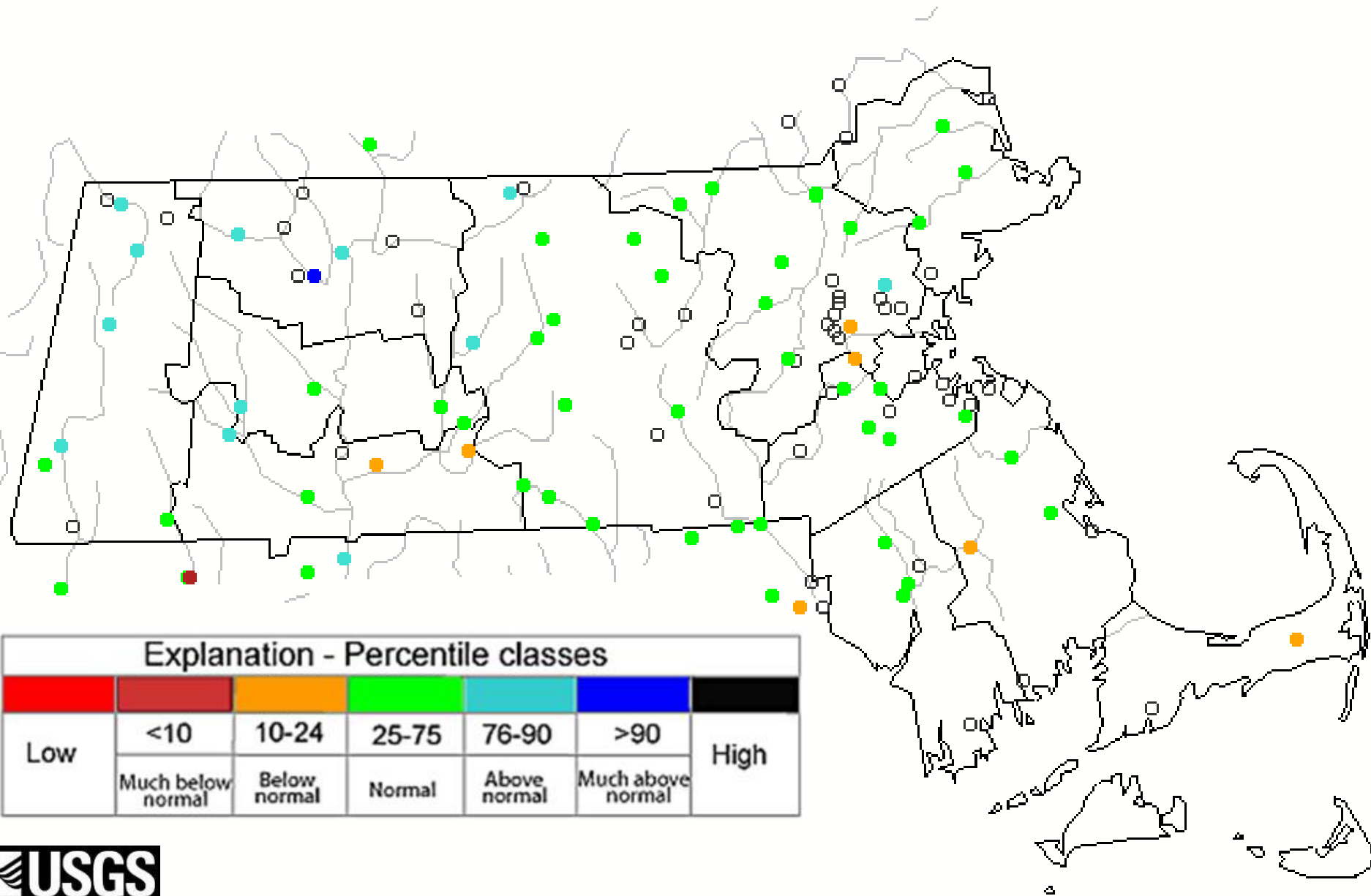
May 9, 2017

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



Average Streamflow Conditions – Feb. 2017

February 2017

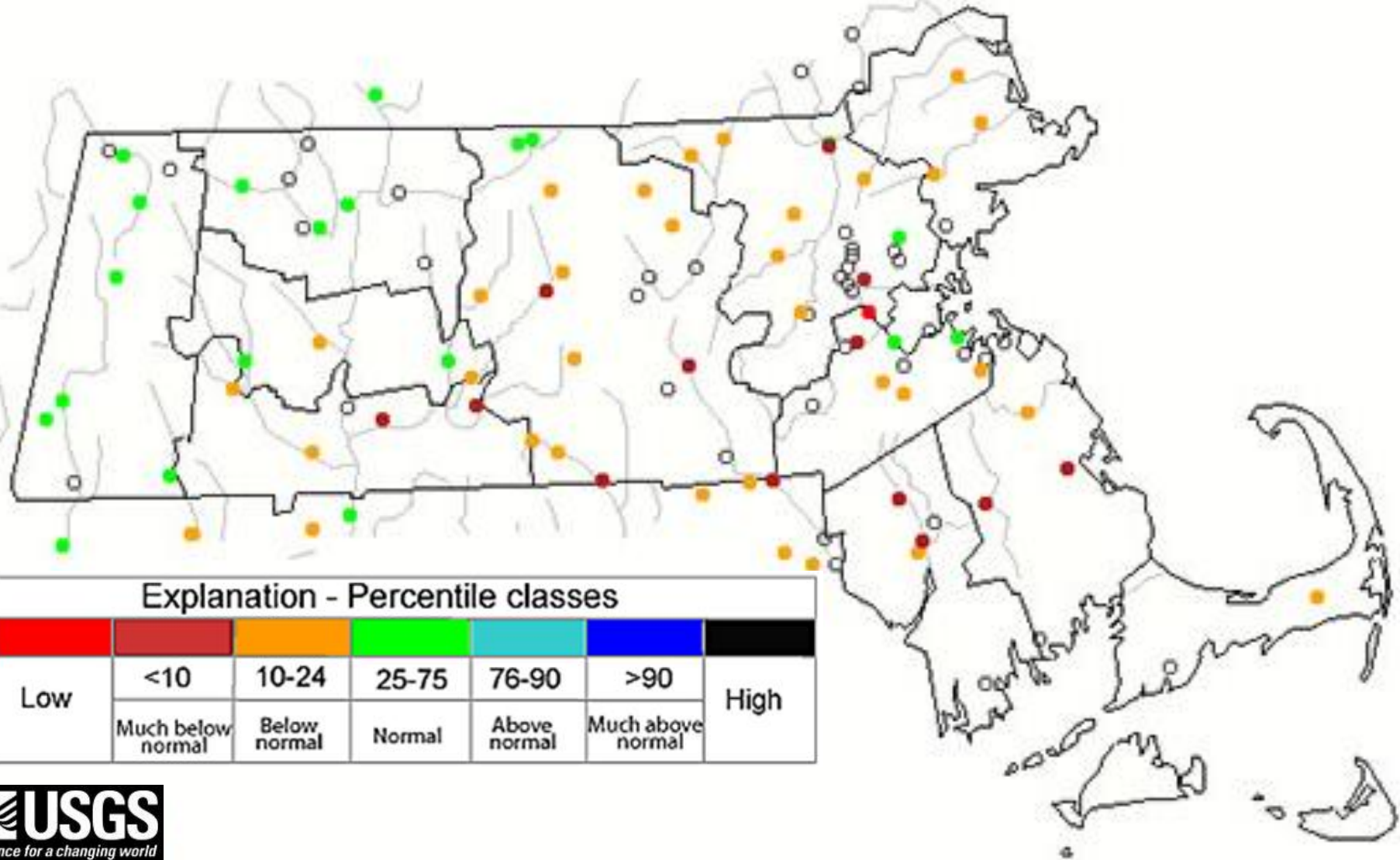


Explanation - Percentile classes

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 2017

March 2017

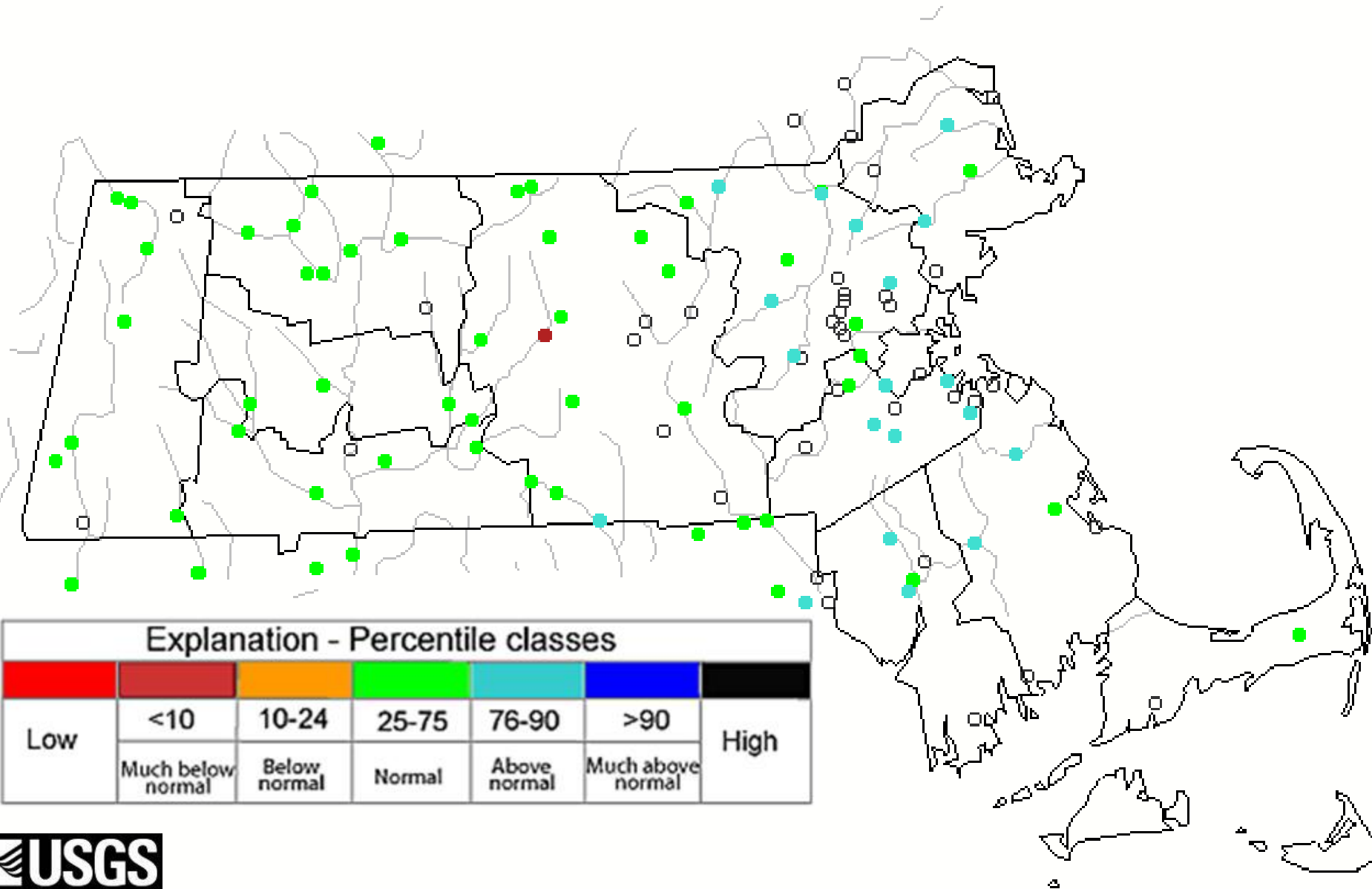


Explanation - Percentile classes

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

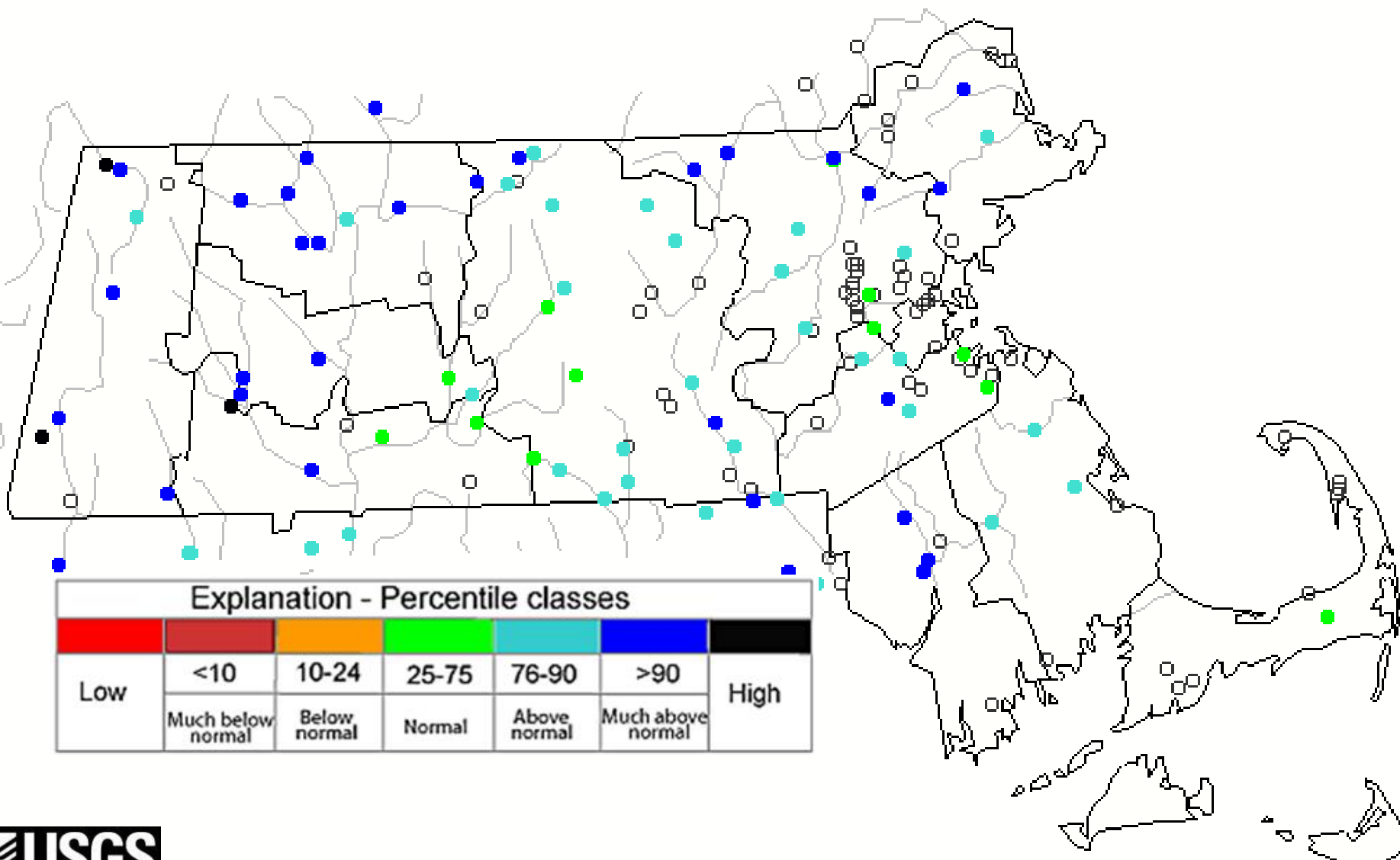
Average Streamflow Conditions – April 2017

April 2017



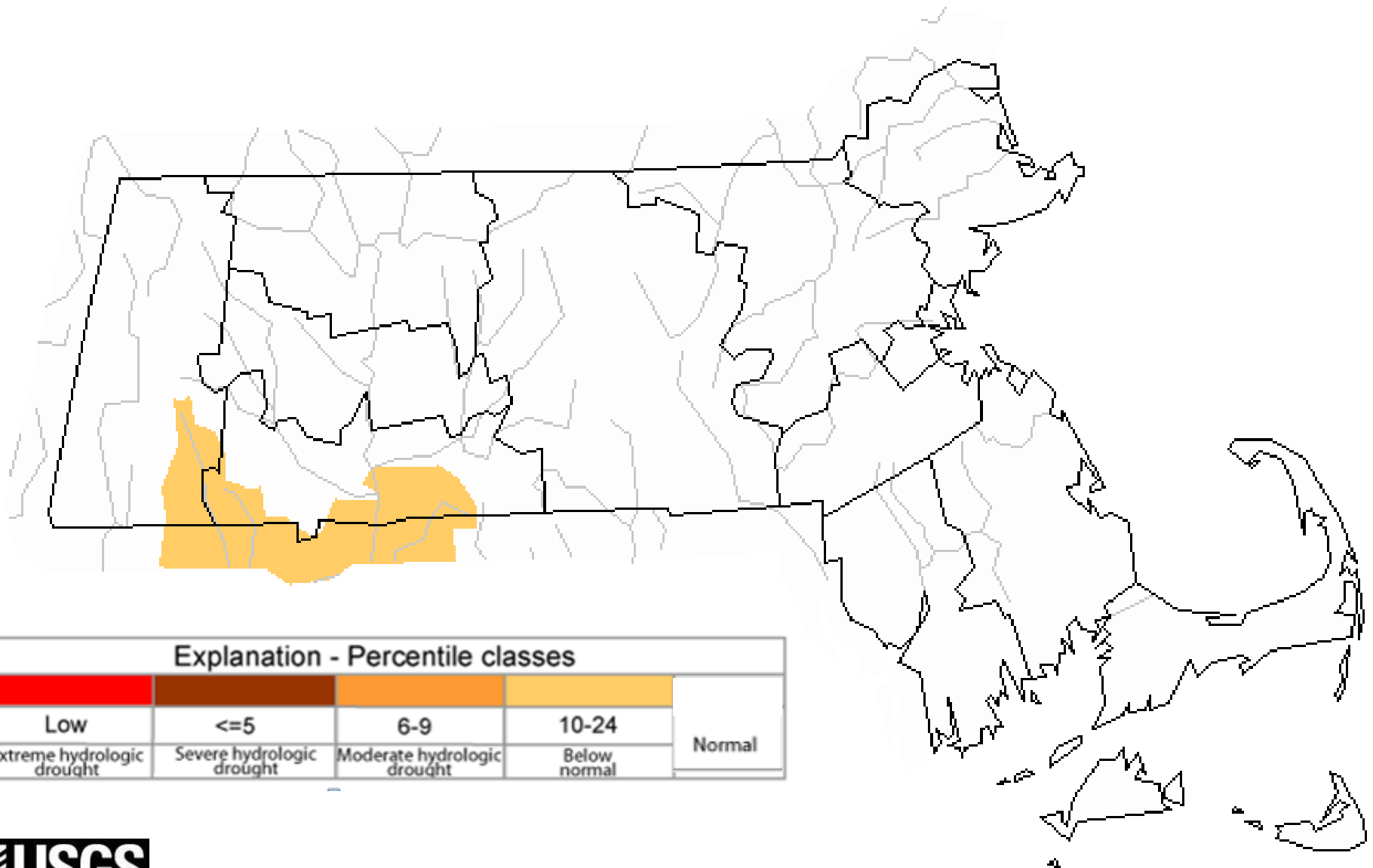
Current Streamflow Conditions – May 8, 2017

Monday, May 08, 2017 09:30ET



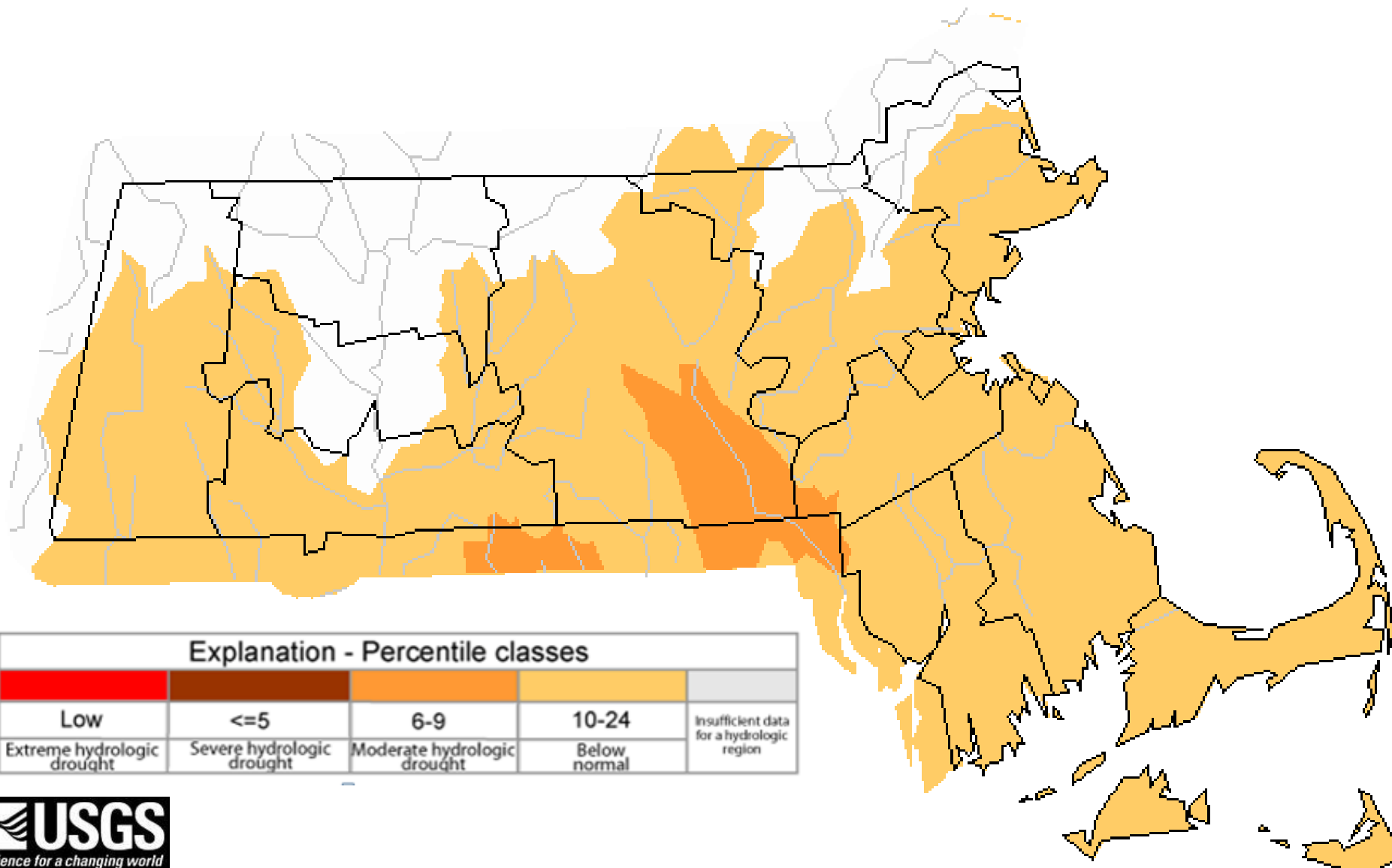
Below normal average monthly streamflow – Feb. 2017

February 2017



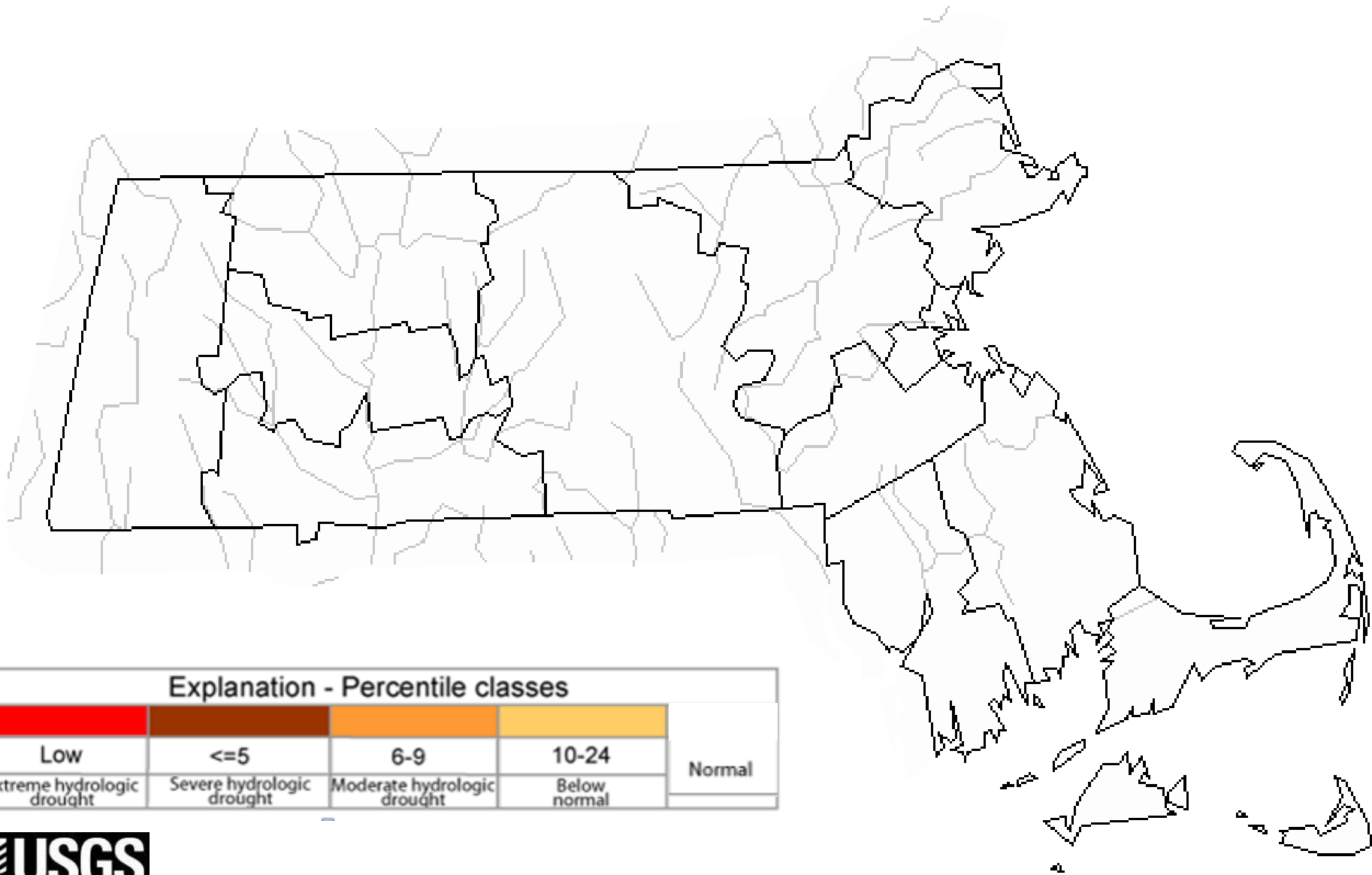
Below normal average monthly streamflow – March 2017

March 2017



Below normal average monthly streamflow – April 2017

April 2017

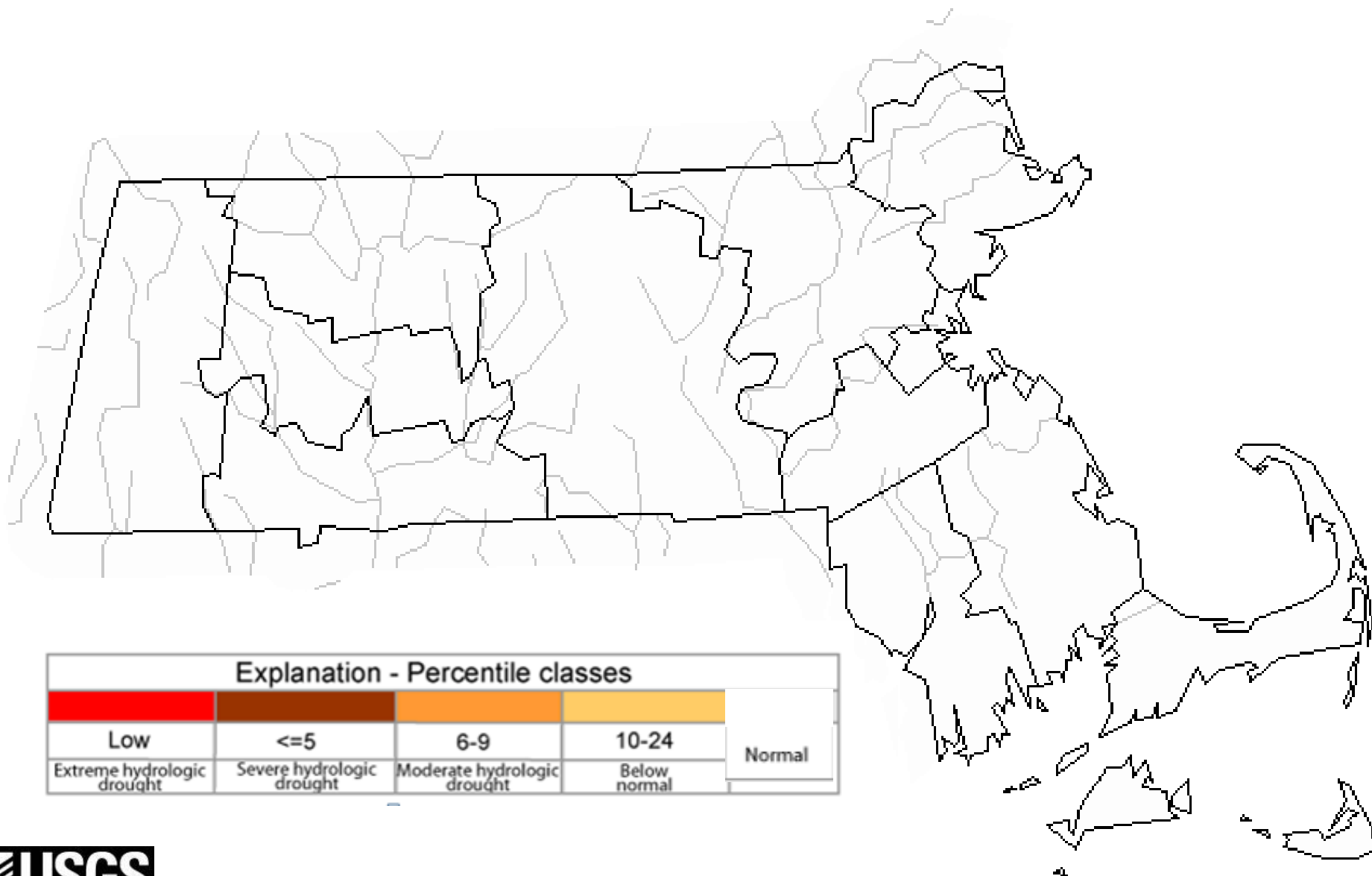


Explanation - Percentile classes

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

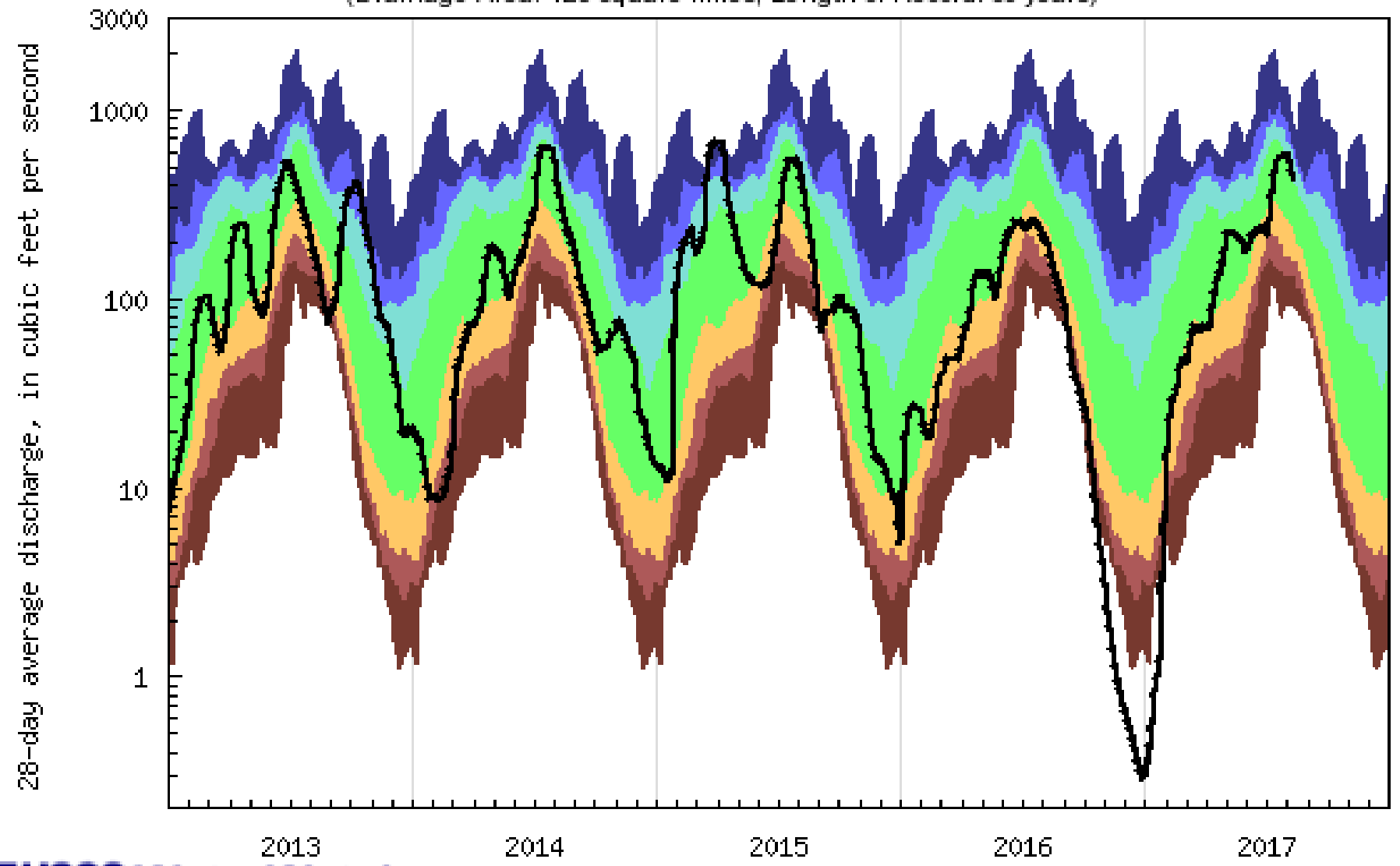
Below normal 7-day average streamflow – May 7, 2017

Sunday, May 07, 2017



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

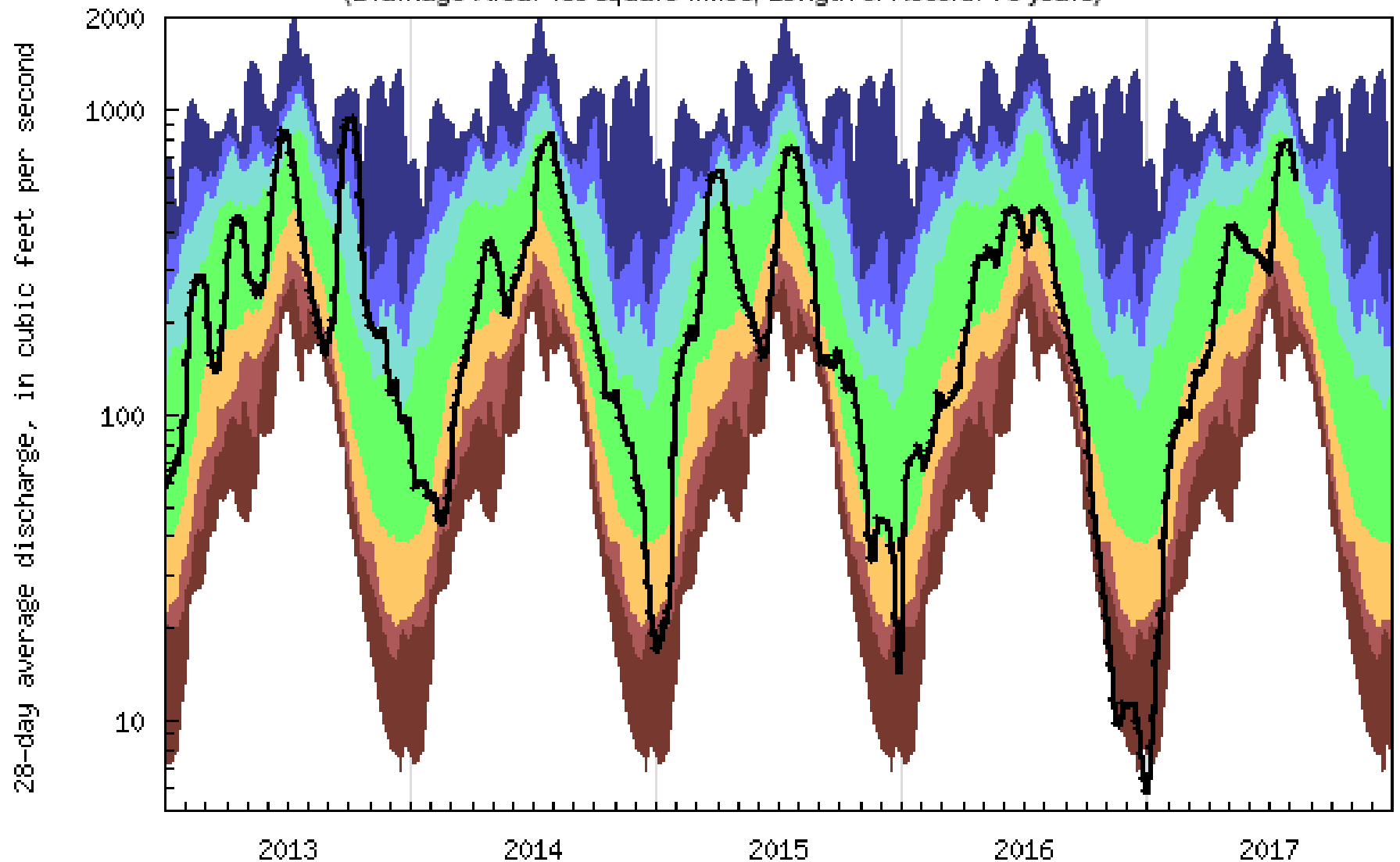
USGS 01102000 IPSWICH RIVER NEAR IPSWICH, MA
 (Drainage Area: 125 square miles, Length of Record: 85 years)



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: 78 years)

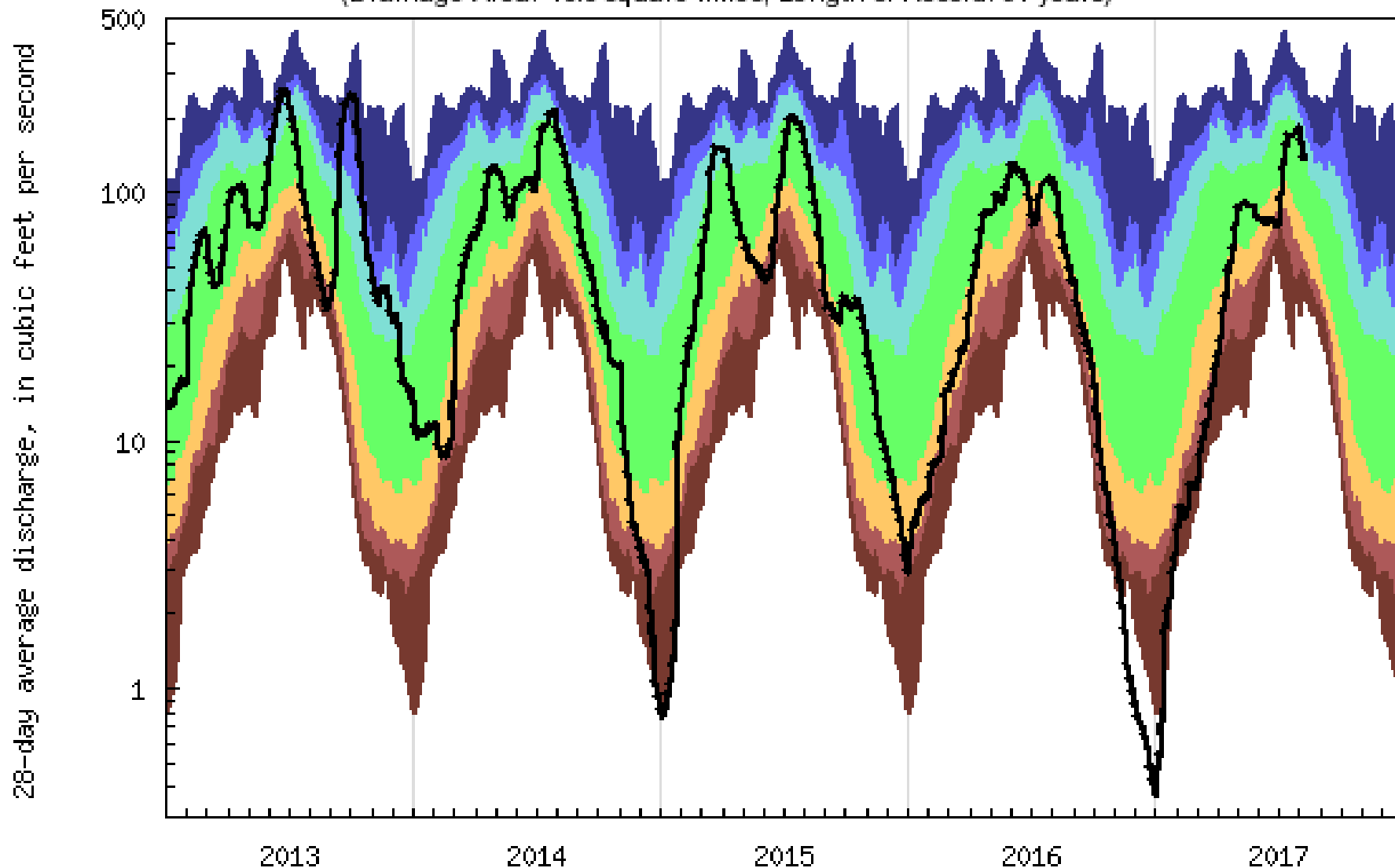


USGS WaterWatch



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 years)

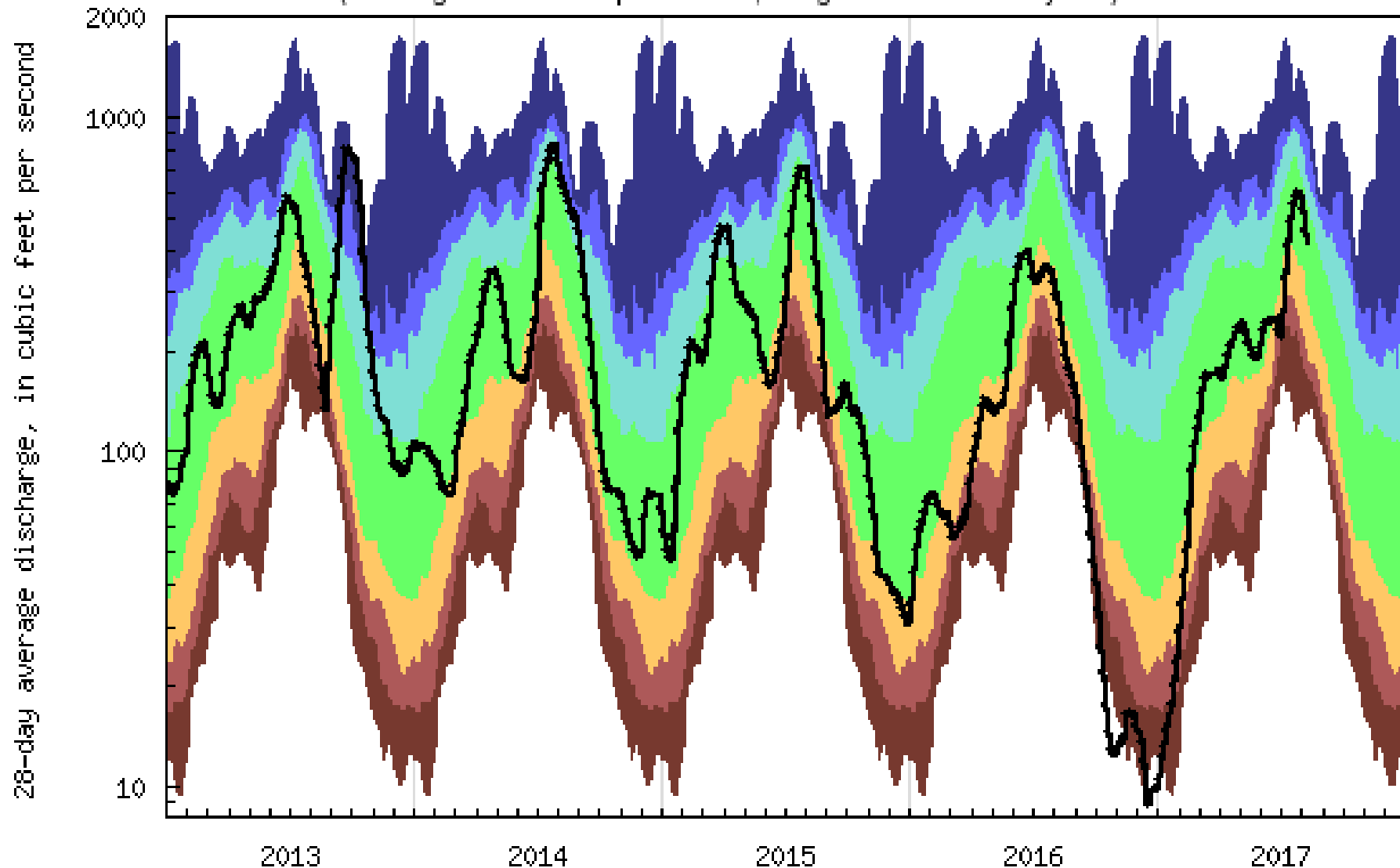


USGS WaterWatch

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: 103 years)

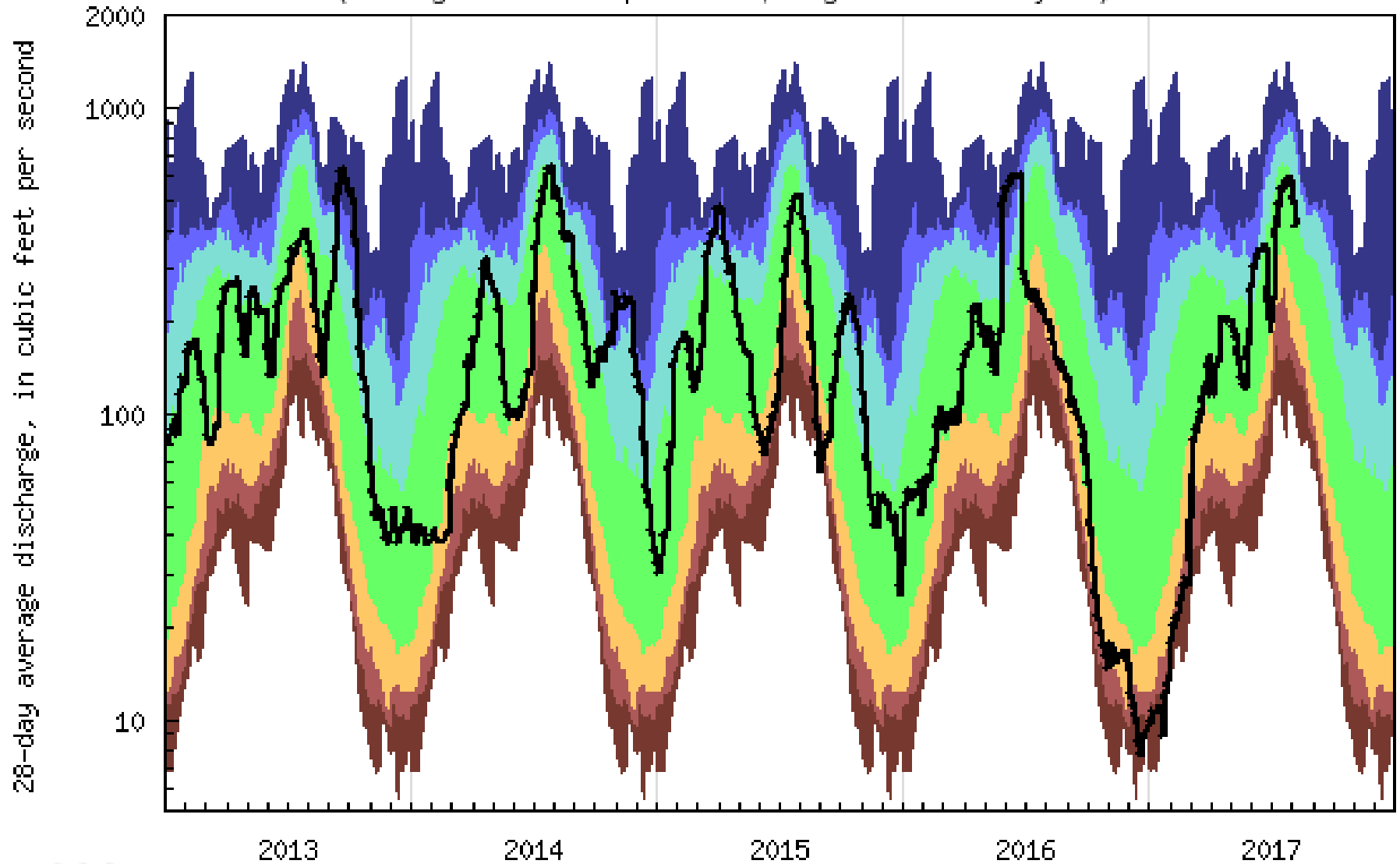


USGS WaterWatch

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: 80 years)

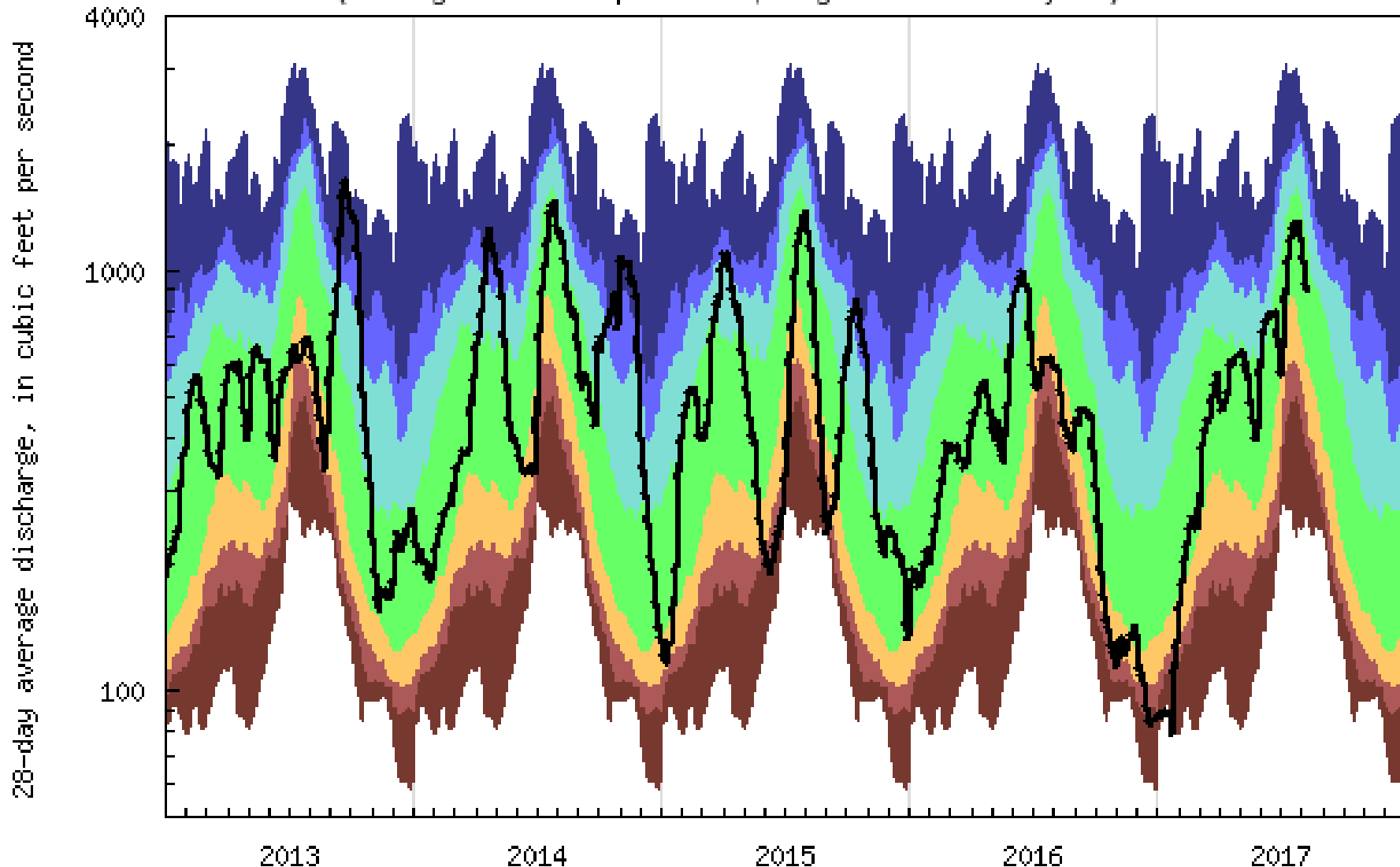


USGS WaterWatch



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		

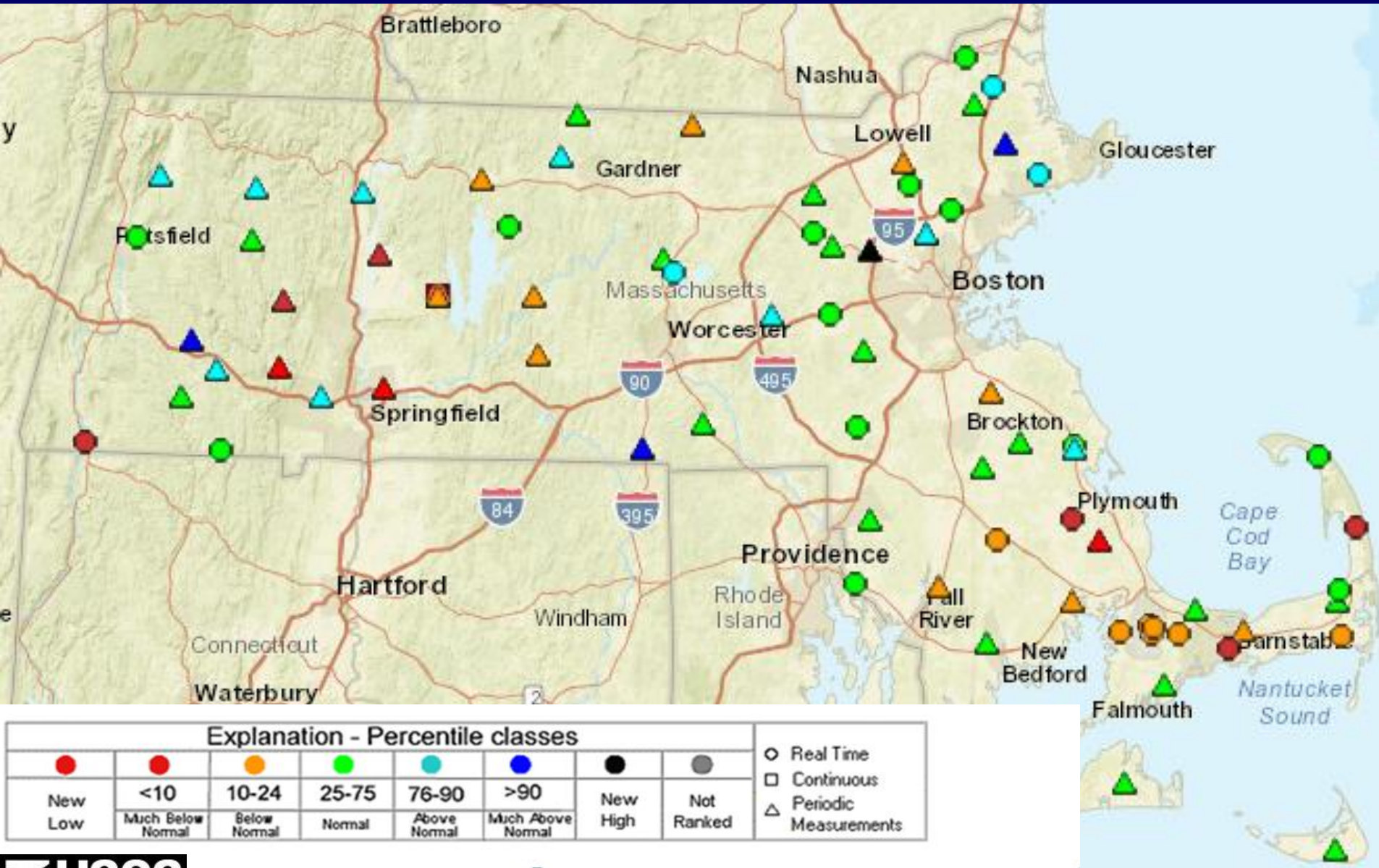
USGS 01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA
 (Drainage Area: 282 square miles, Length of Record: 103 years)



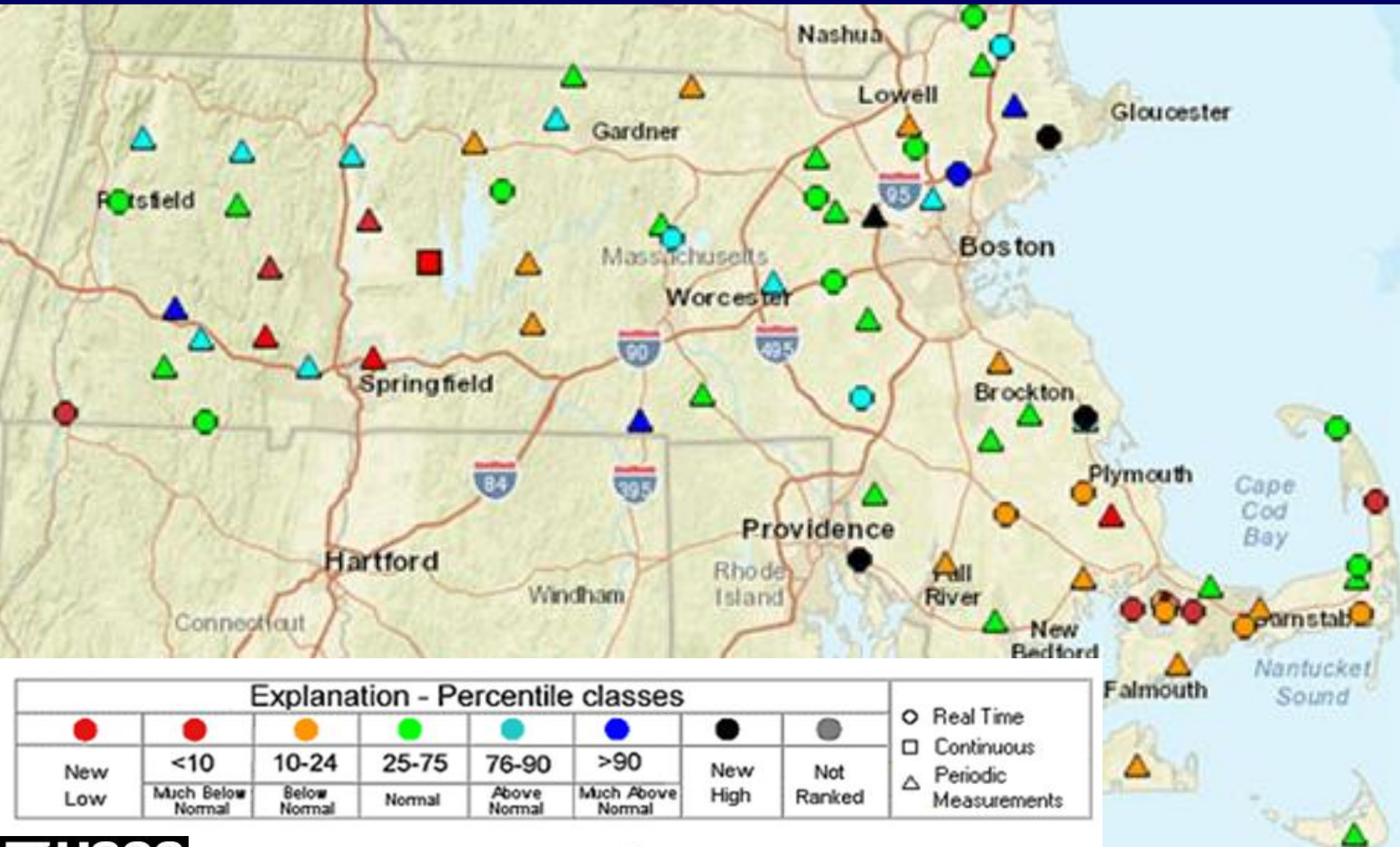
USGS WaterWatch

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		

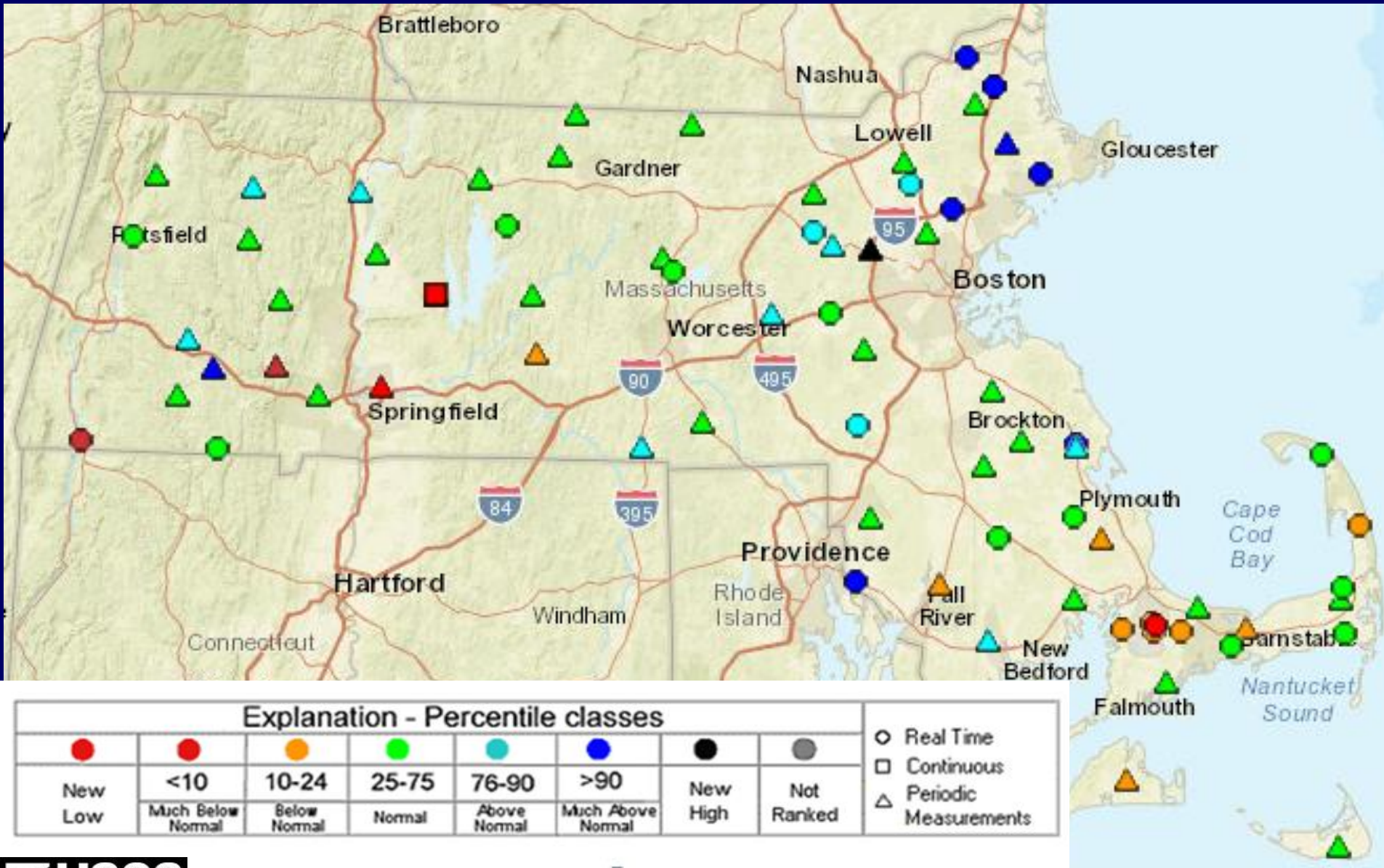
Groundwater Conditions During Feb. 2017

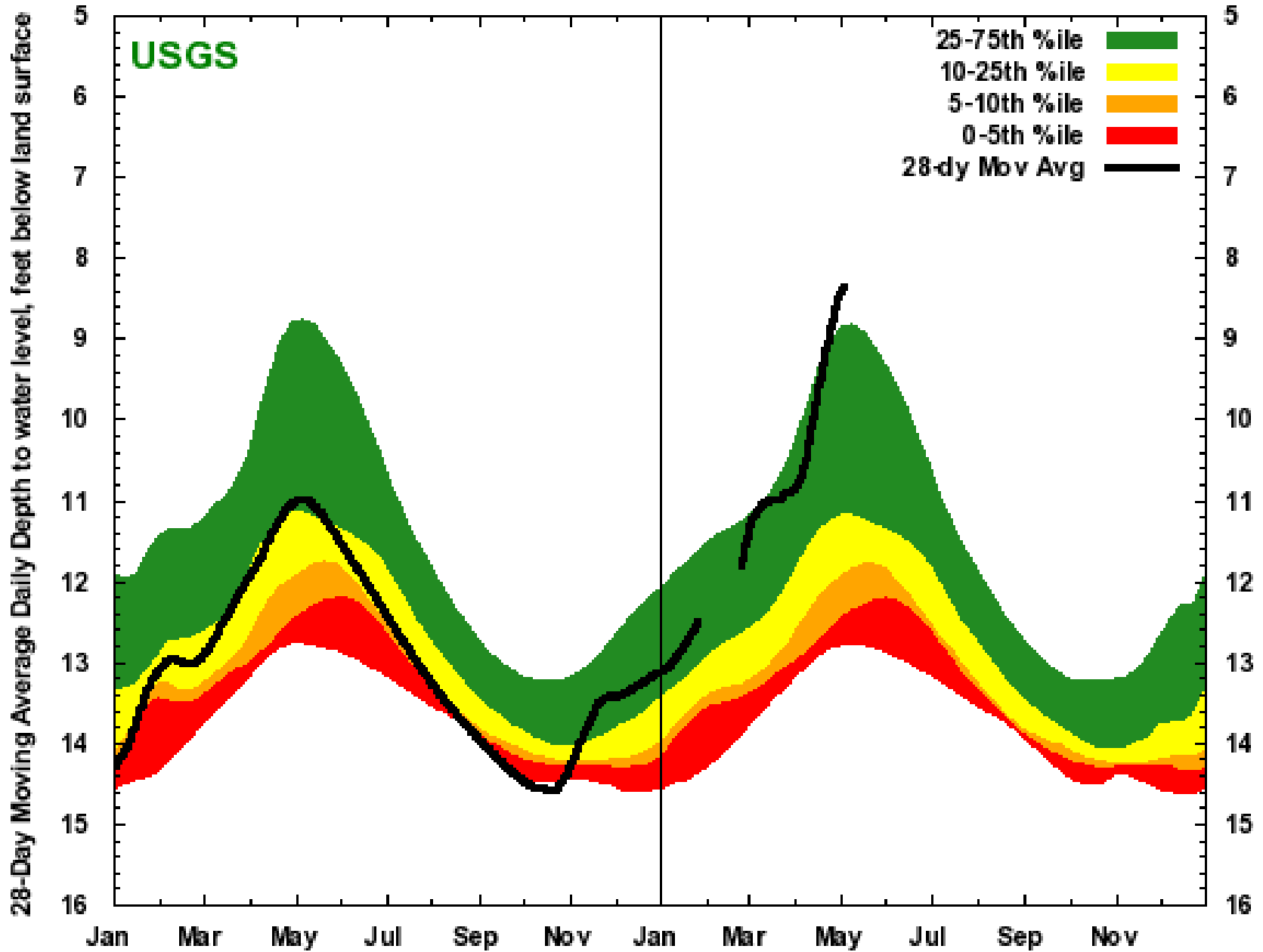


Groundwater Conditions During March 2017



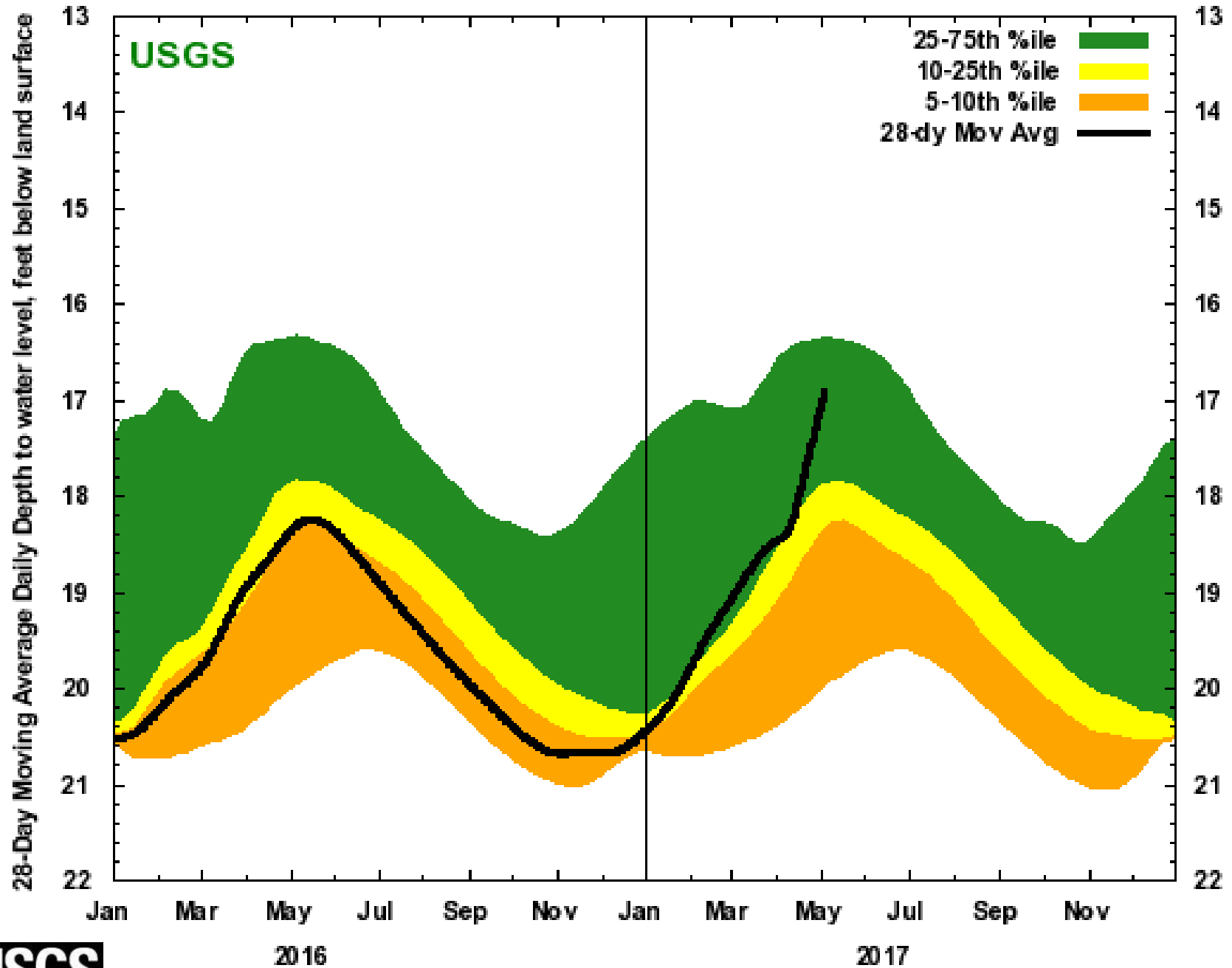
Groundwater Conditions During April 2017

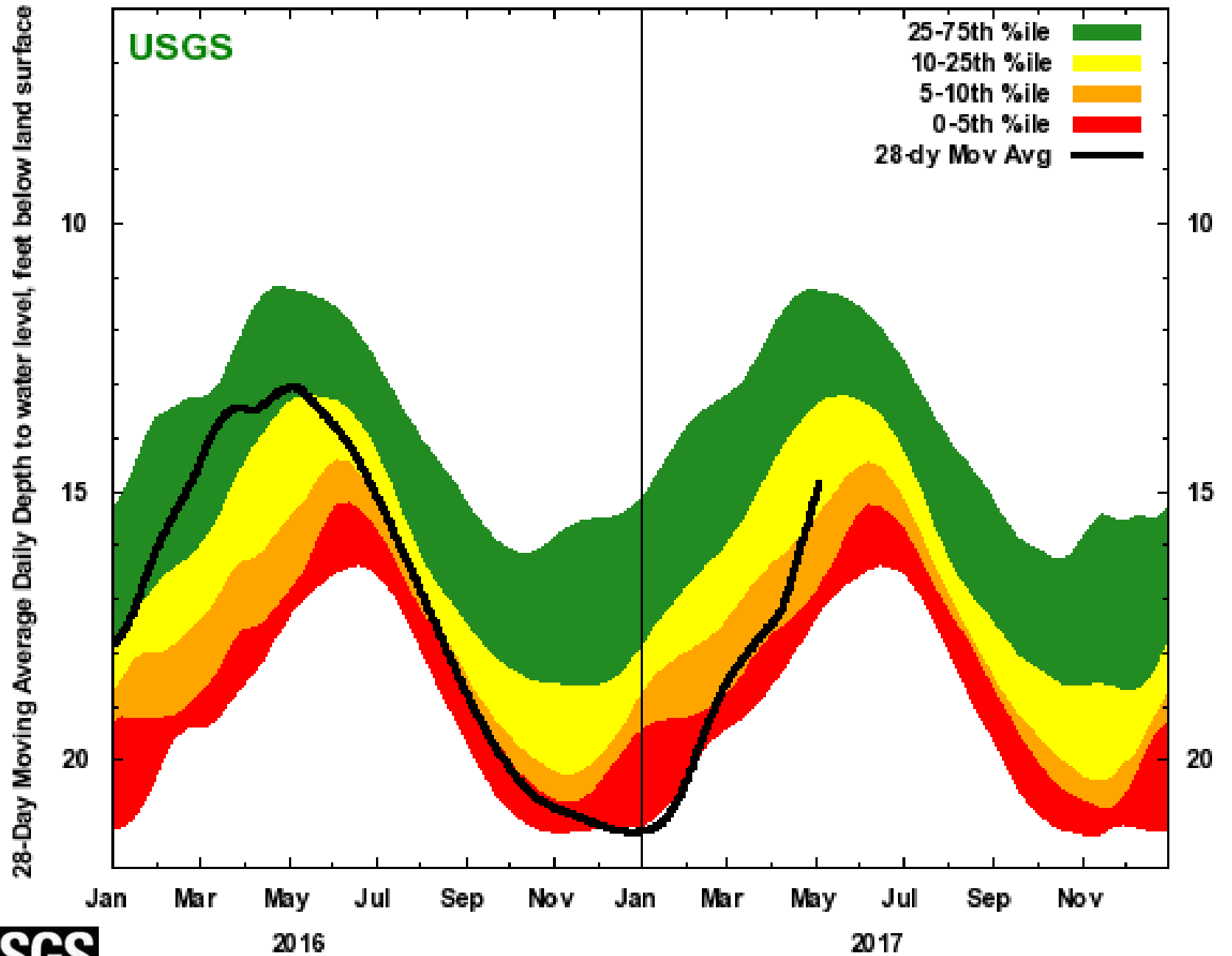




USGS

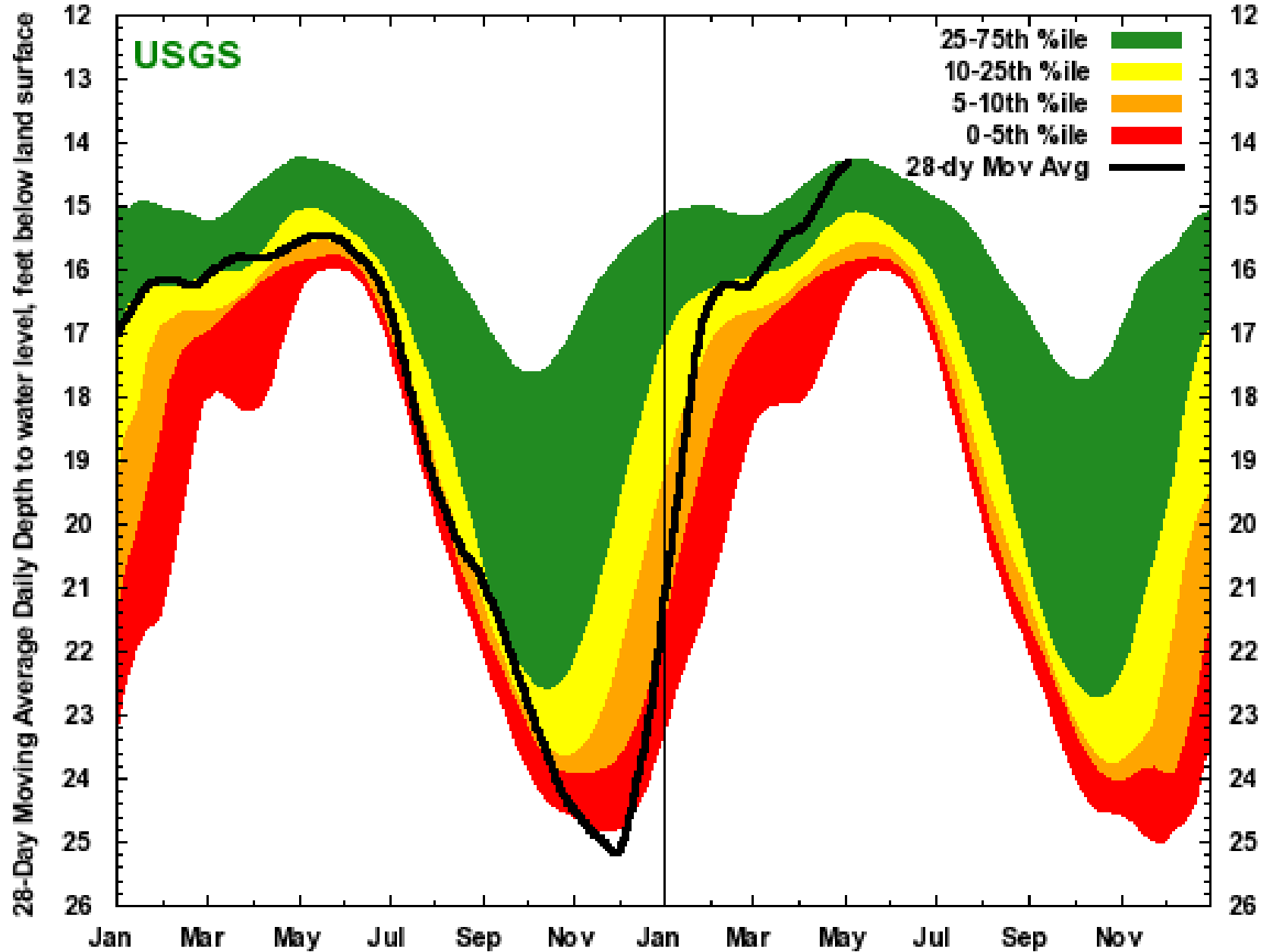
- 25-75th %ile
- 10-25th %ile
- 5-10th %ile
- 0-5th %ile
- 28-dy Mov Avg





USGS

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



USGS

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