
Streamflow and Groundwater Conditions in Massachusetts

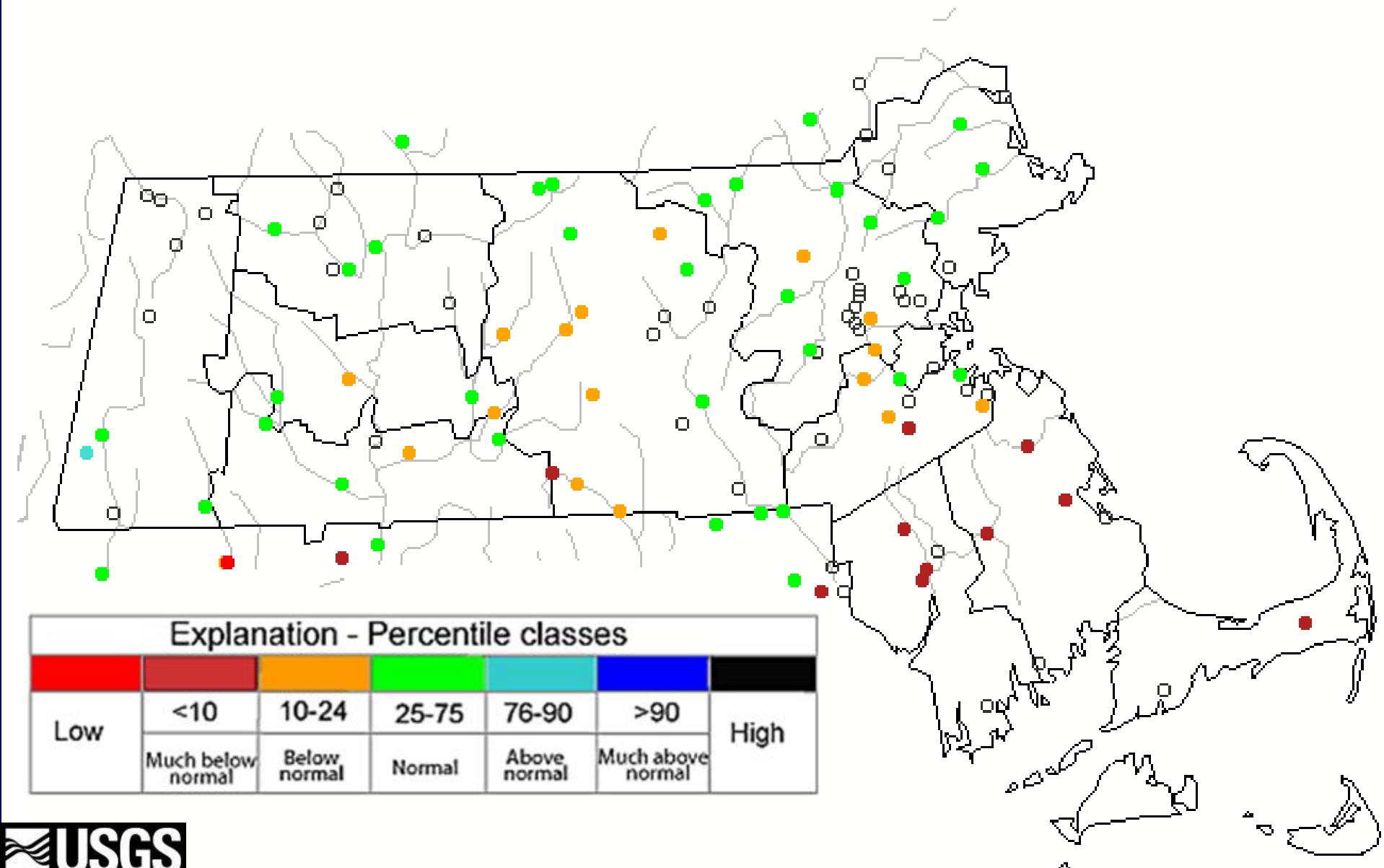
March 7, 2017

Gardner Bent
U.S. Geological Survey
New England Water Science Center
Massachusetts – Rhode Island Office



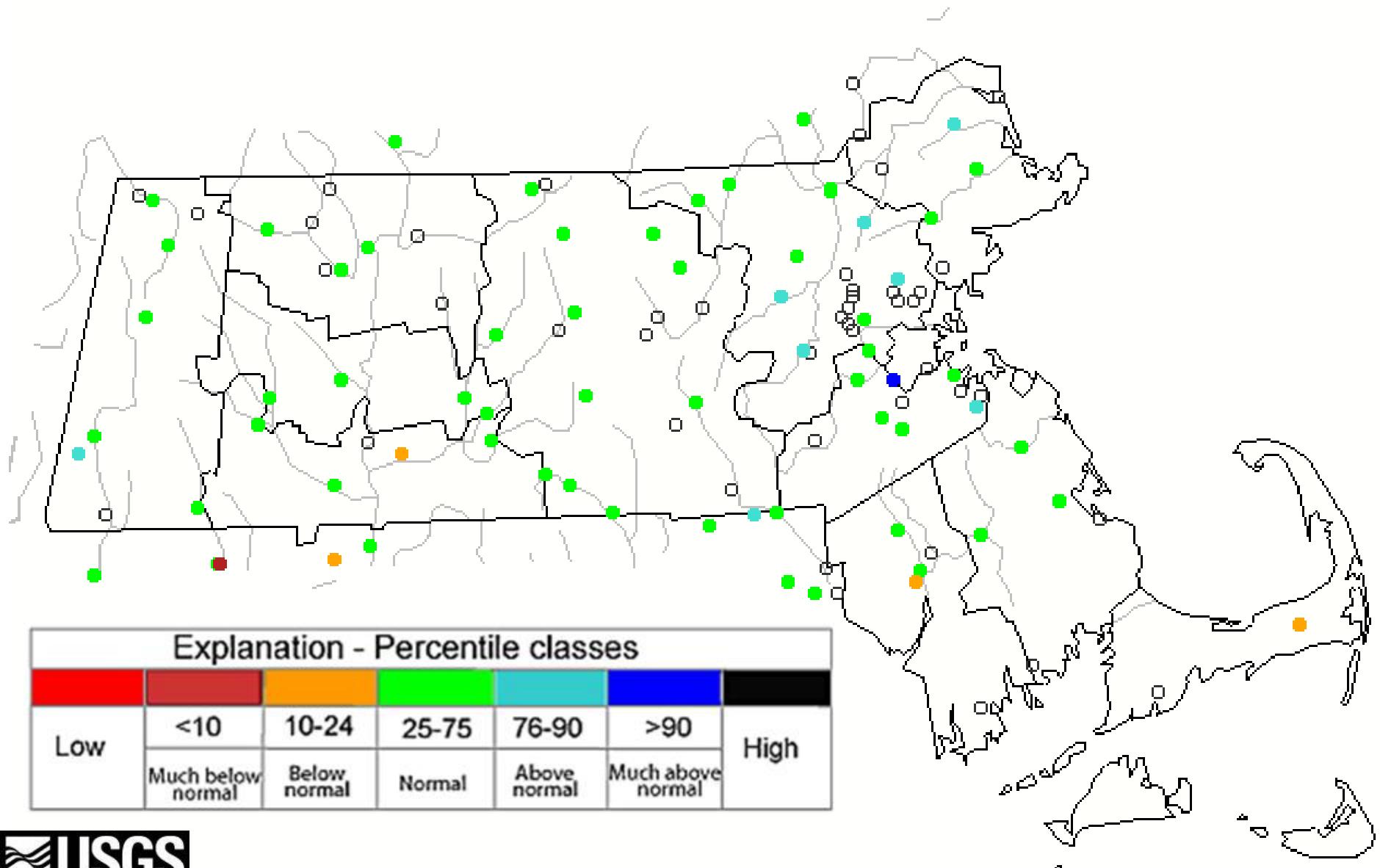
Average Streamflow Conditions – Dec. 2016

December 2016



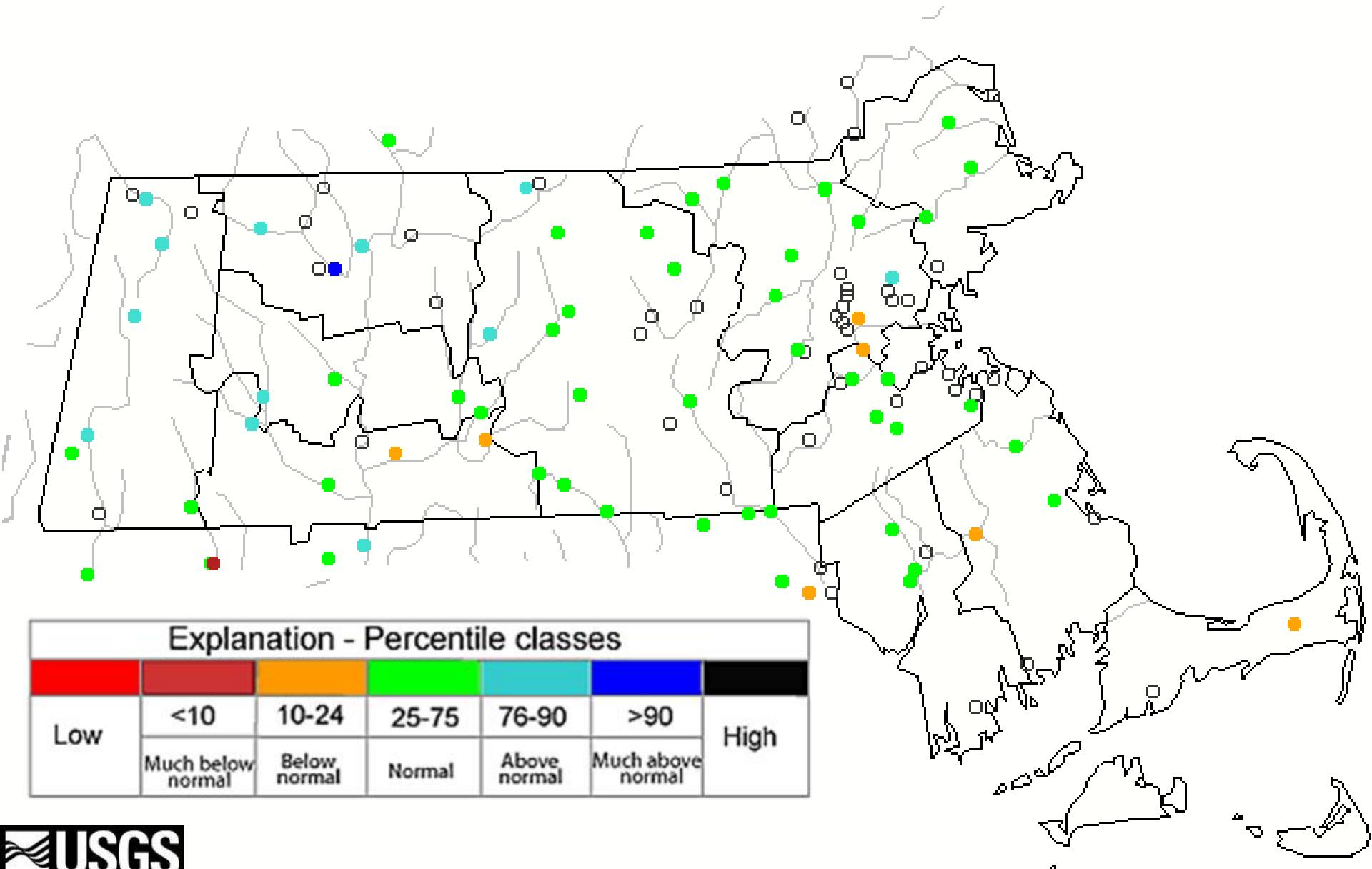
Average Streamflow Conditions – Jan. 2017

January 2017



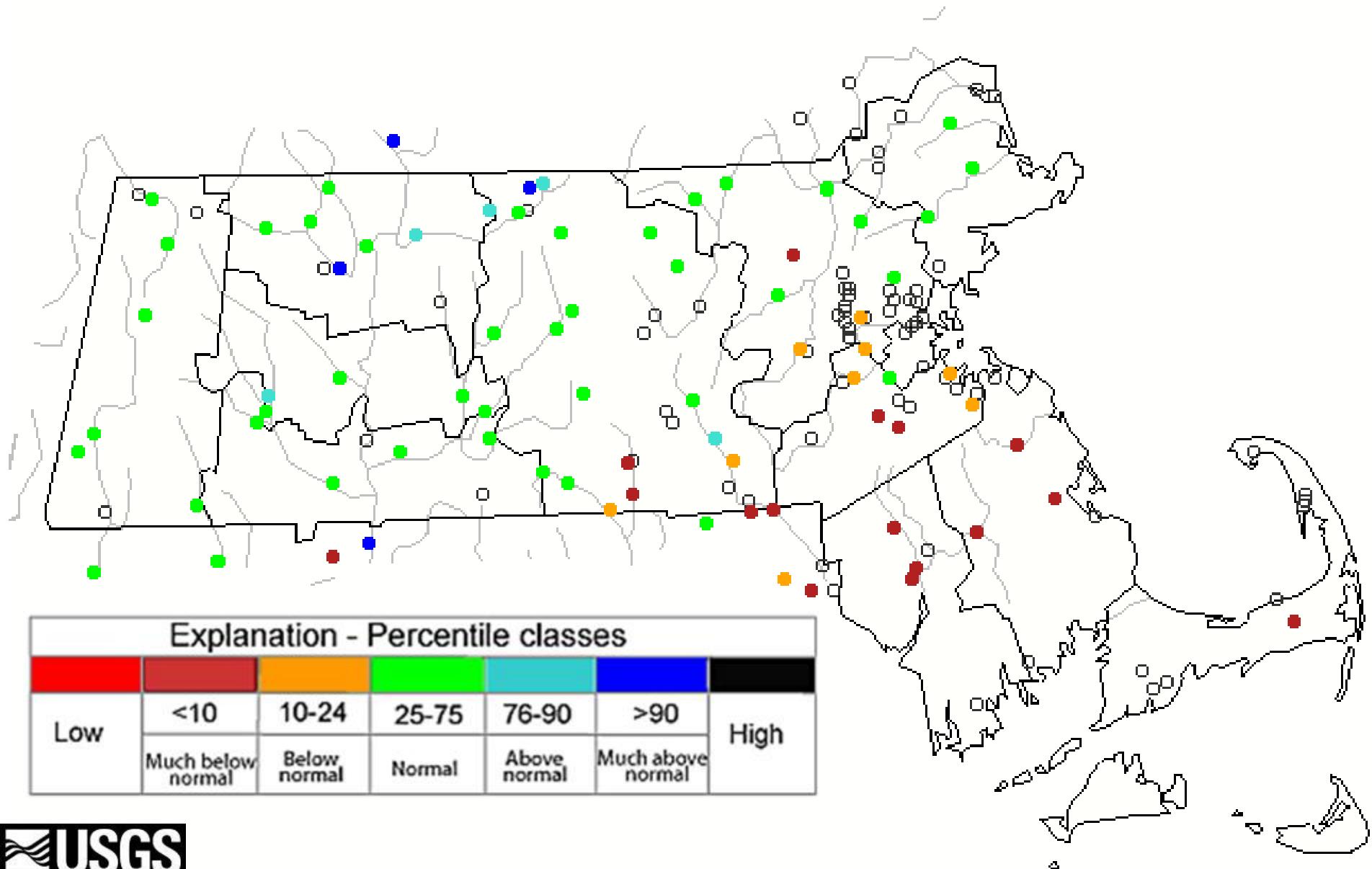
Average Streamflow Conditions – Feb. 2017

February 2017



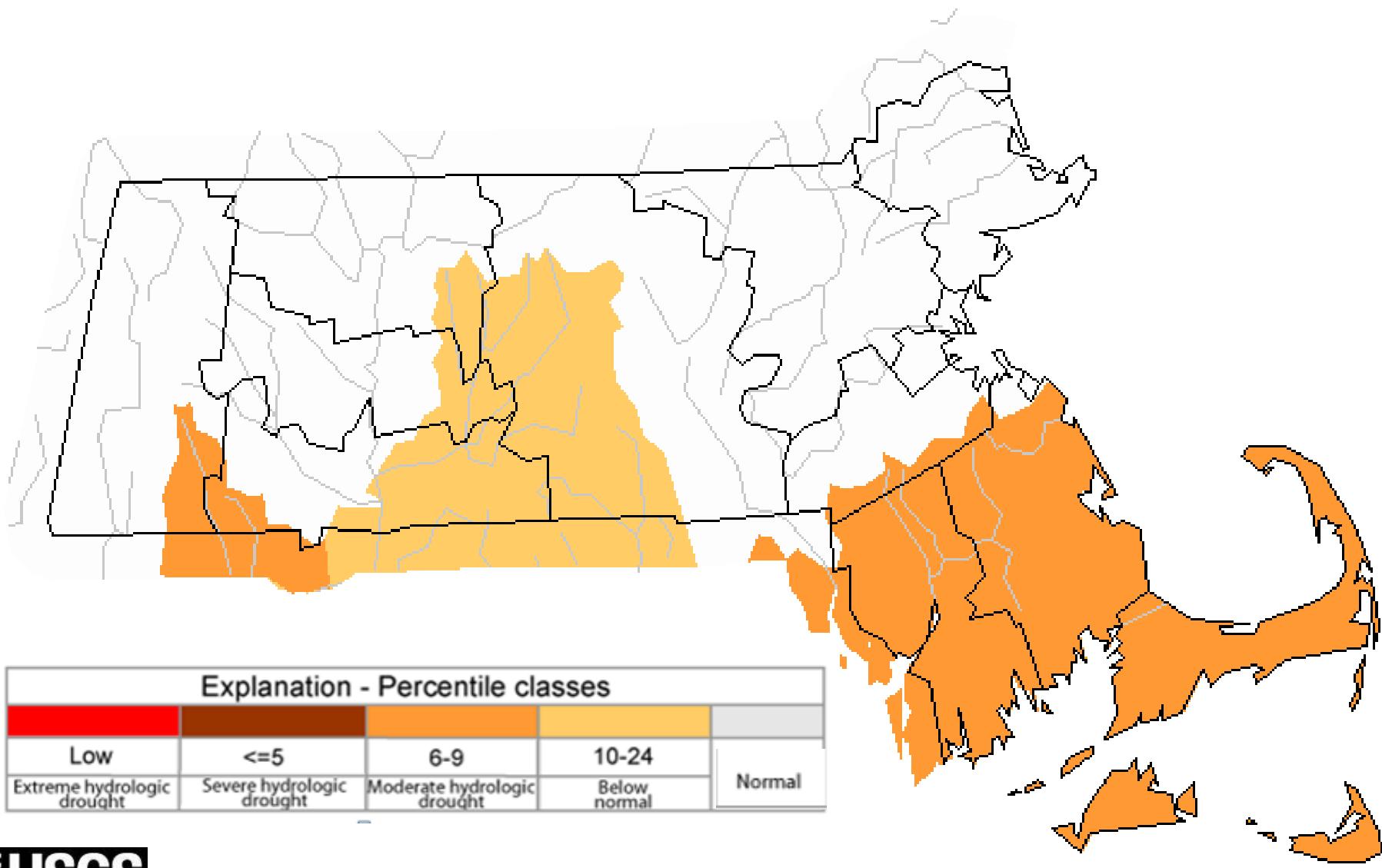
Current Streamflow Conditions – March 6, 2017

Monday, March 06, 2017 11:30ET



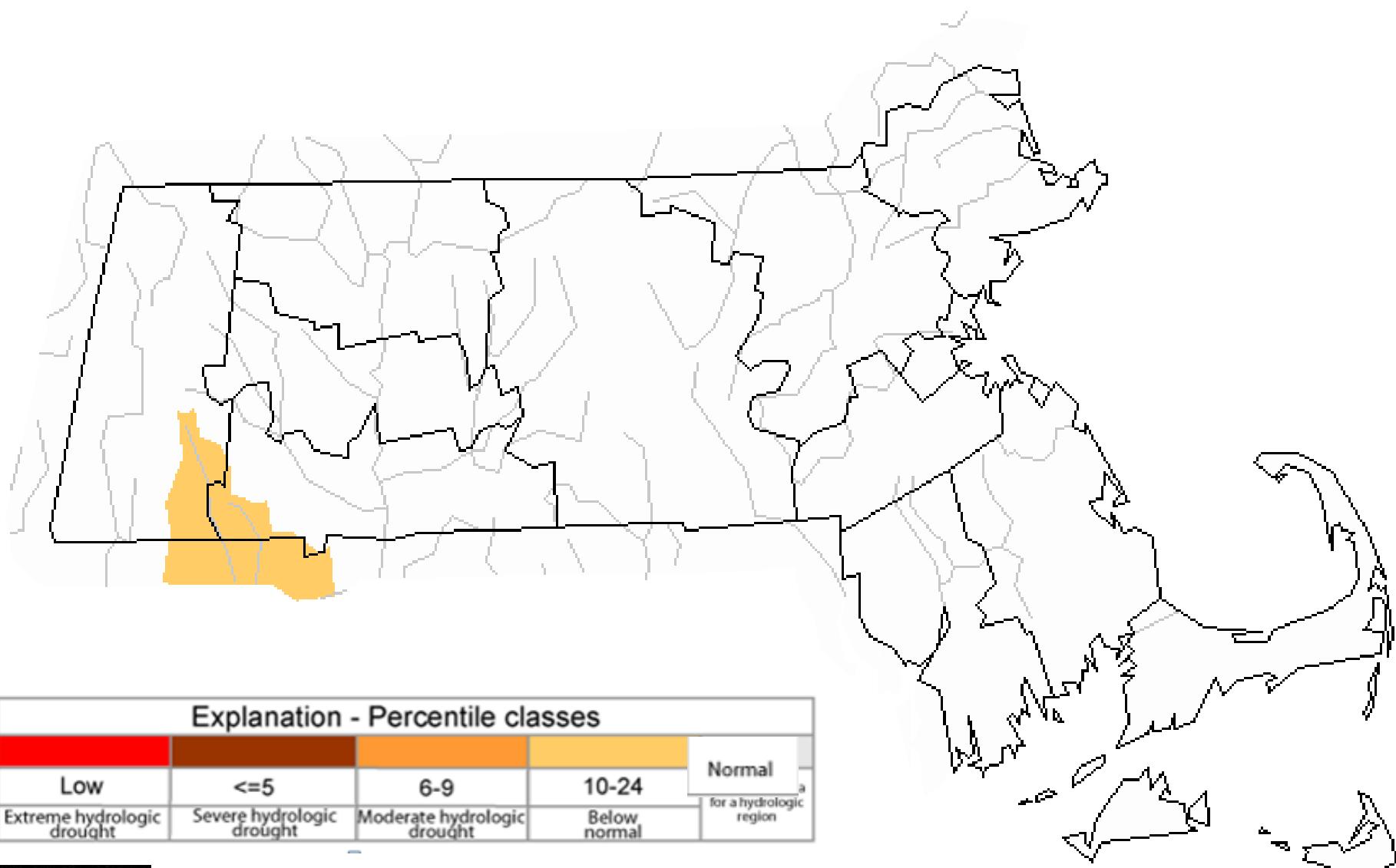
Below normal average monthly streamflow – Dec. 2016

December 2016



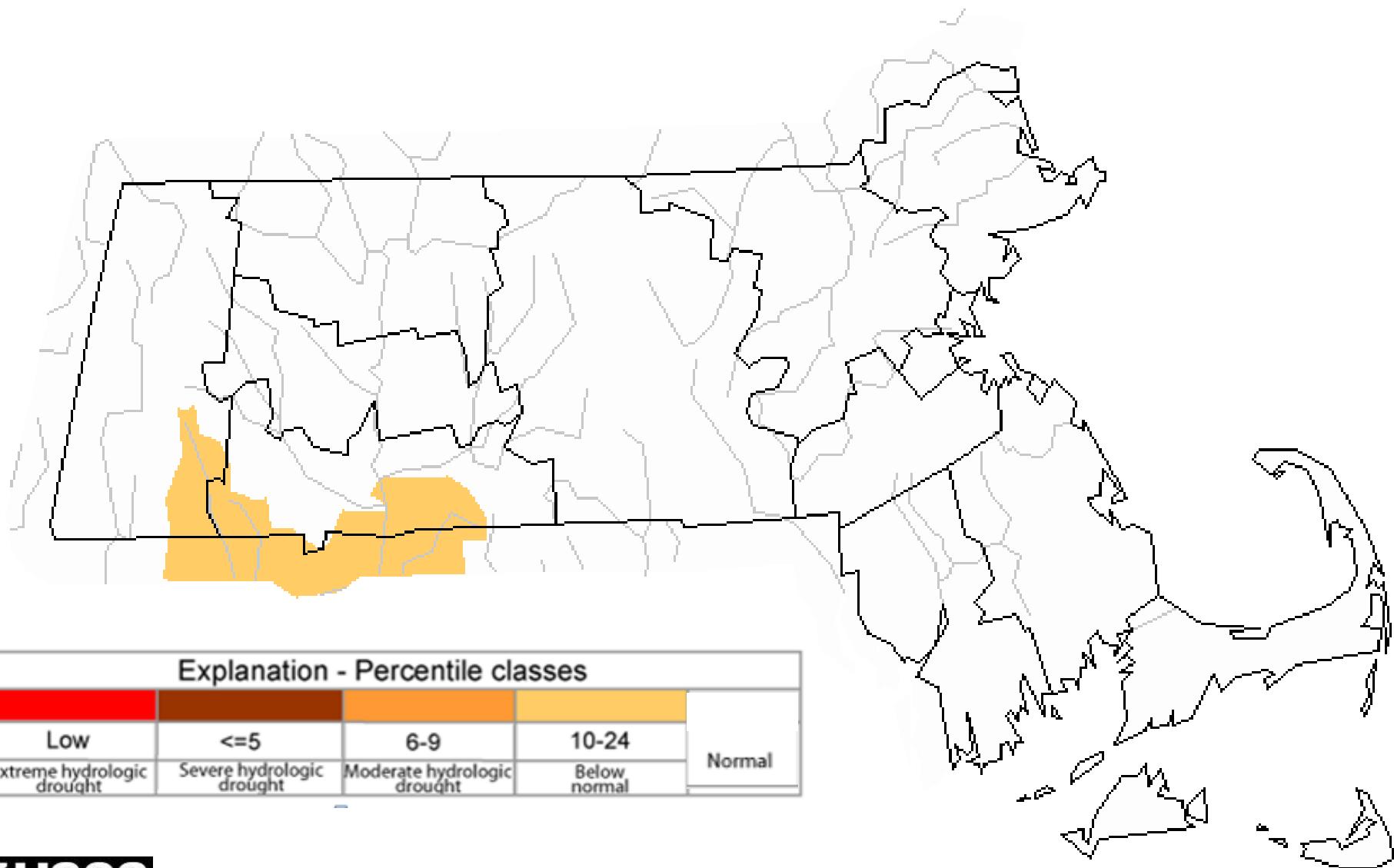
Below normal average monthly streamflow – Jan. 2017

January 2017



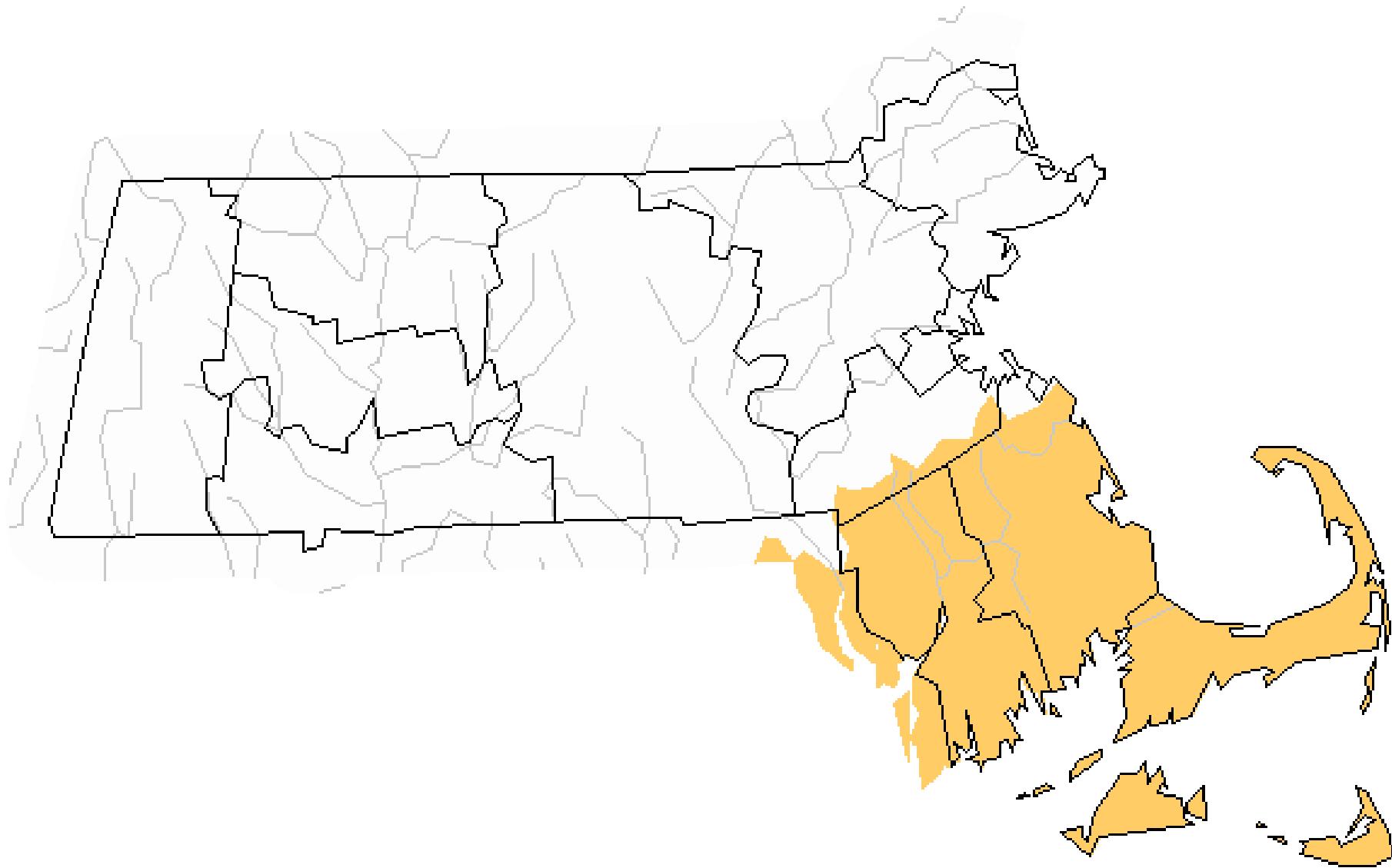
Below normal average monthly streamflow – Feb. 2017

February 2017



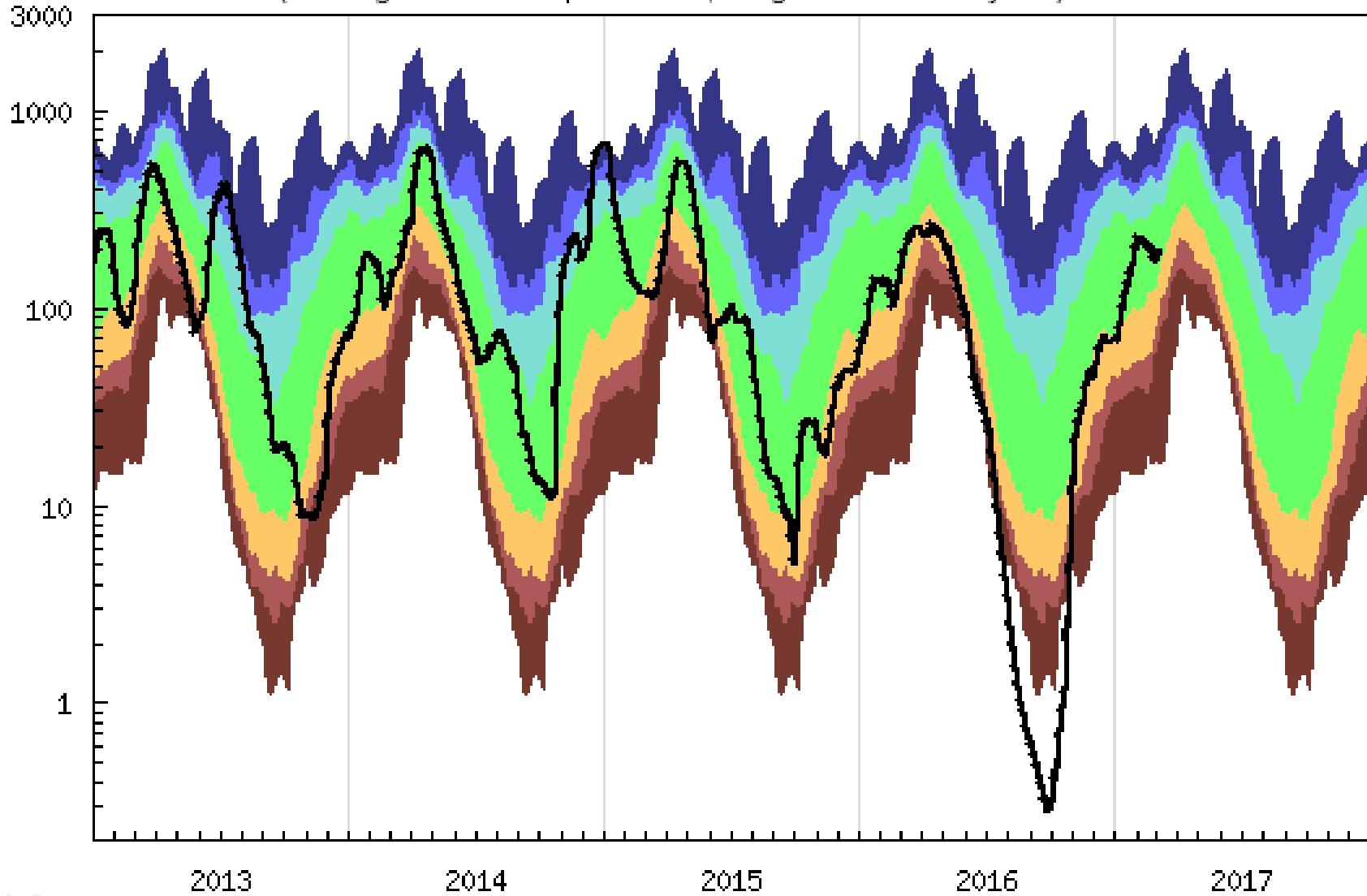
Below normal 7-day average streamflow – current

Sunday, March 05, 2017



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

28-day average discharge, in cubic feet per second



2013

2014

2015

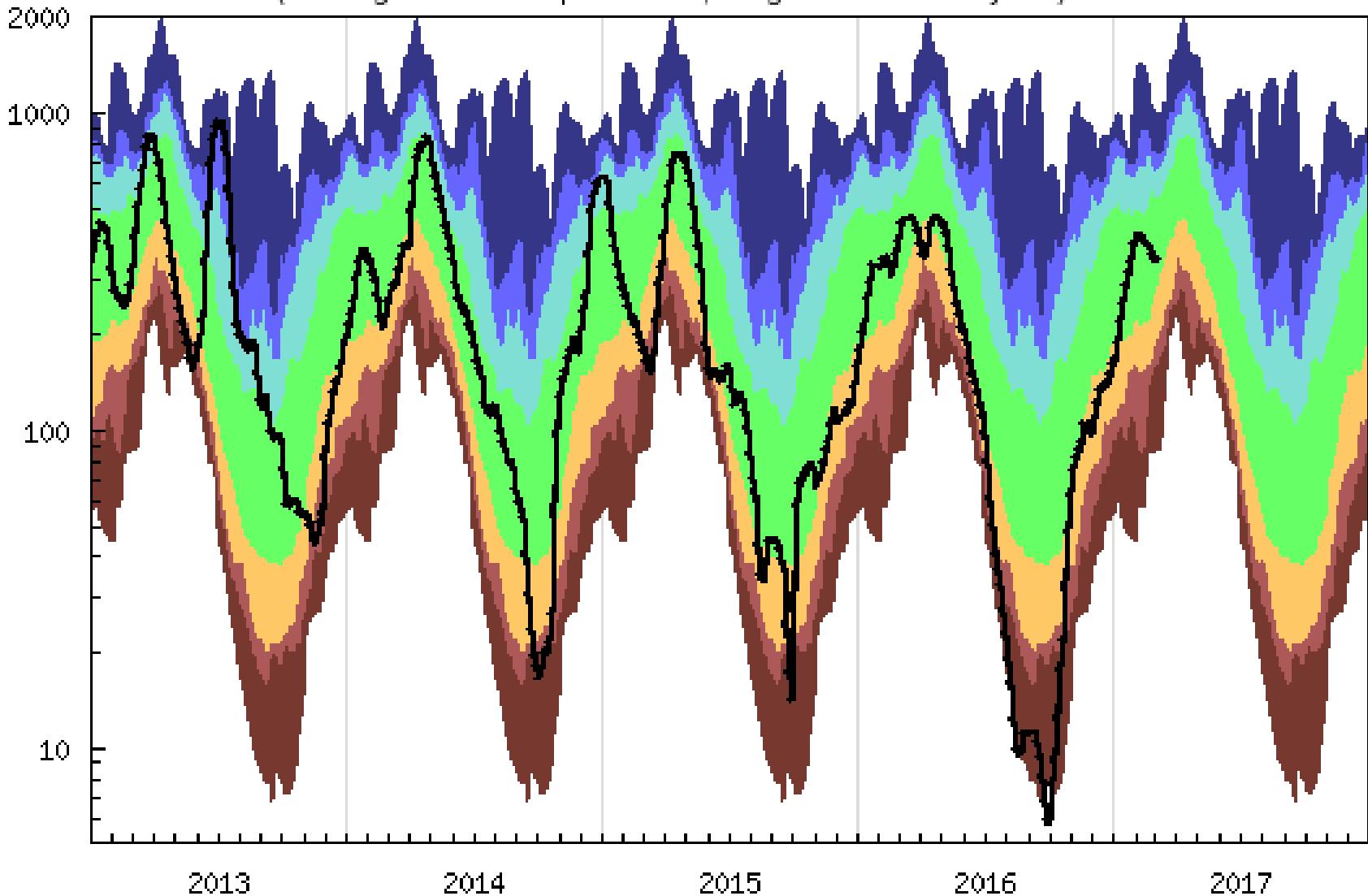
2016

2017

USGS WaterWatch

USGS 01103500 CHARLES RIVER AT DOVER, MA
(Drainage Area: 183 square miles, Length of Record: 78 years)

28-day average discharge, in cubic feet per second



2013

2014

2015

2016

2017

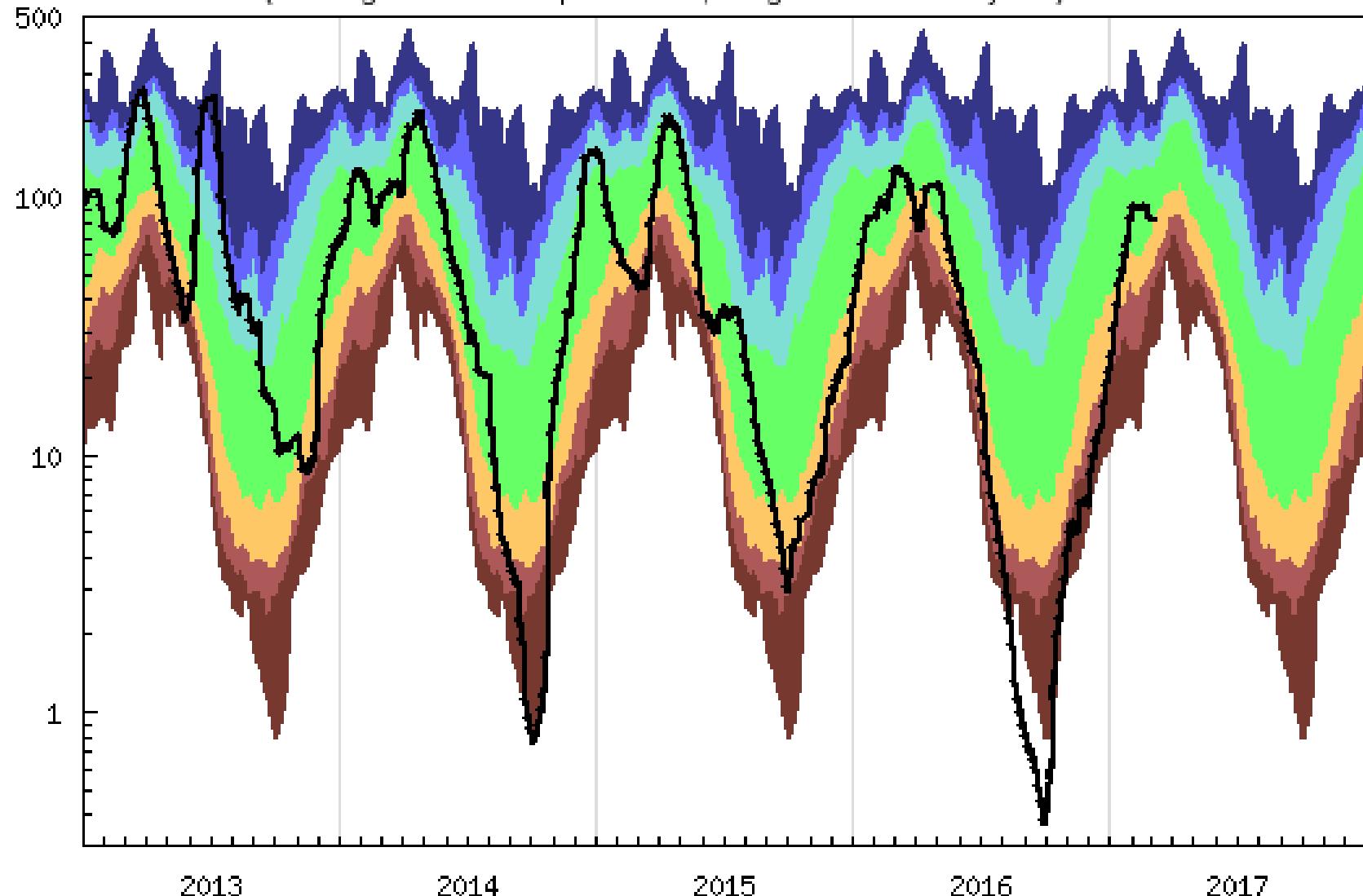
 USGS WaterWatch

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)

28-day average discharge, in cubic feet per second



2013

2014

2015

2016

2017

 USGS WaterWatch

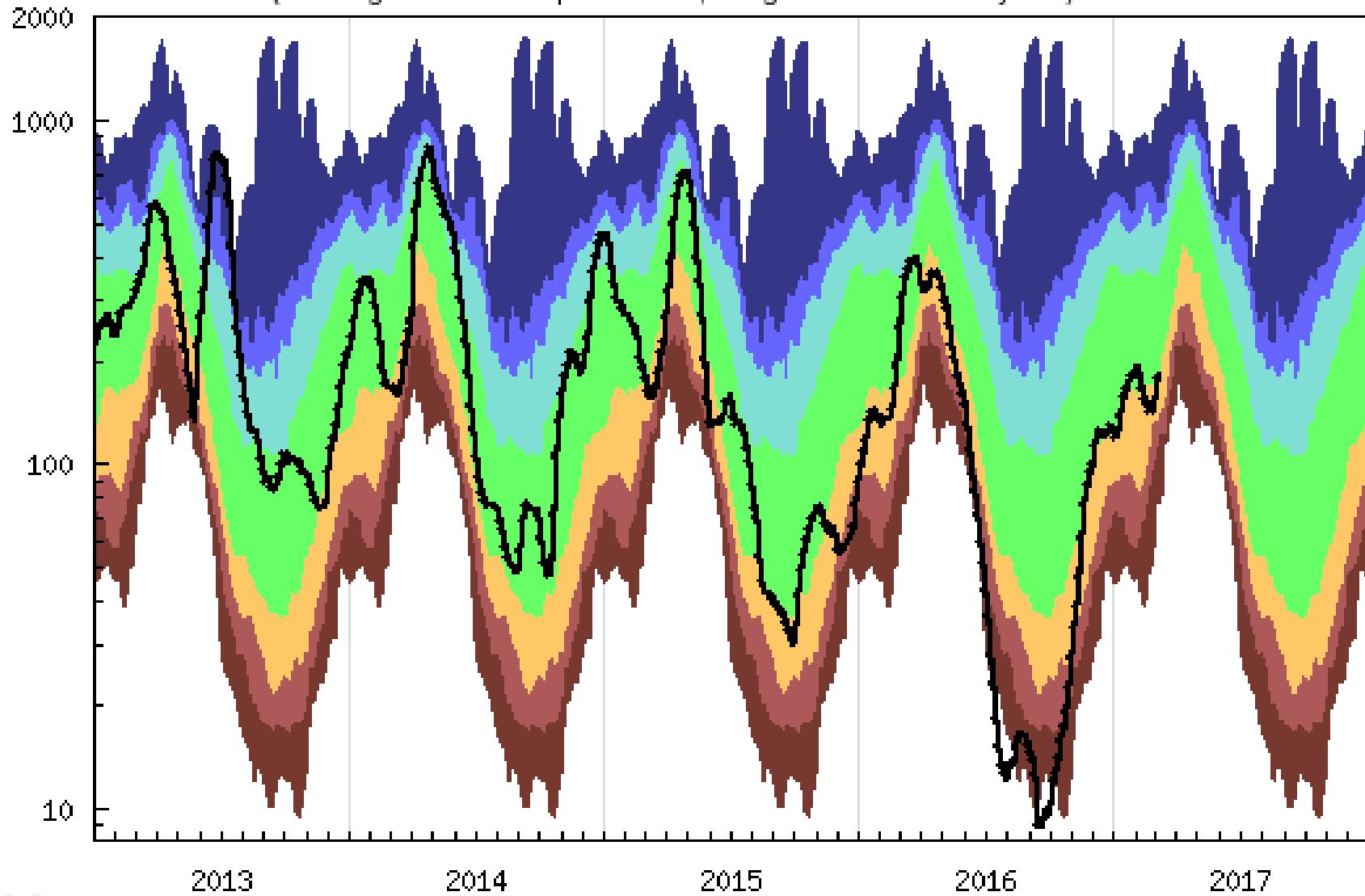
Explanation - Percentile classes

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
science for a changing world

USGS 01176000 QUABOAG RIVER AT WEST BRIMFIELD, MA
(Drainage Area: 150 square miles, Length of Record: 103 years)

28-day average discharge, in cubic feet per second



2013

2014

2015

2016

2017

 USGS WaterWatch

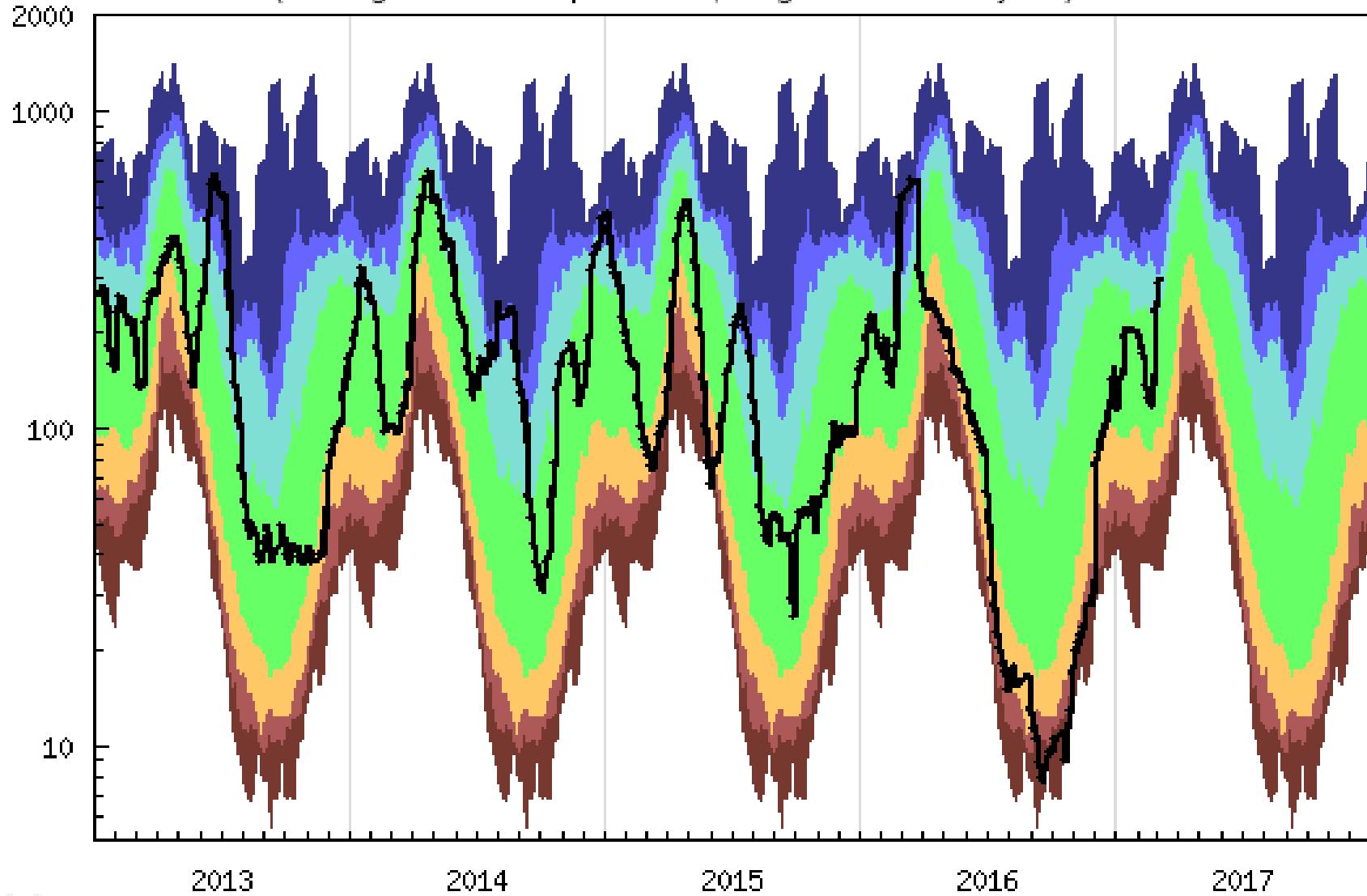
 USGS
science for a changing world

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)

28-day average discharge, in cubic feet per second



2013

2014

2015

2016

2017

 USGS WaterWatch

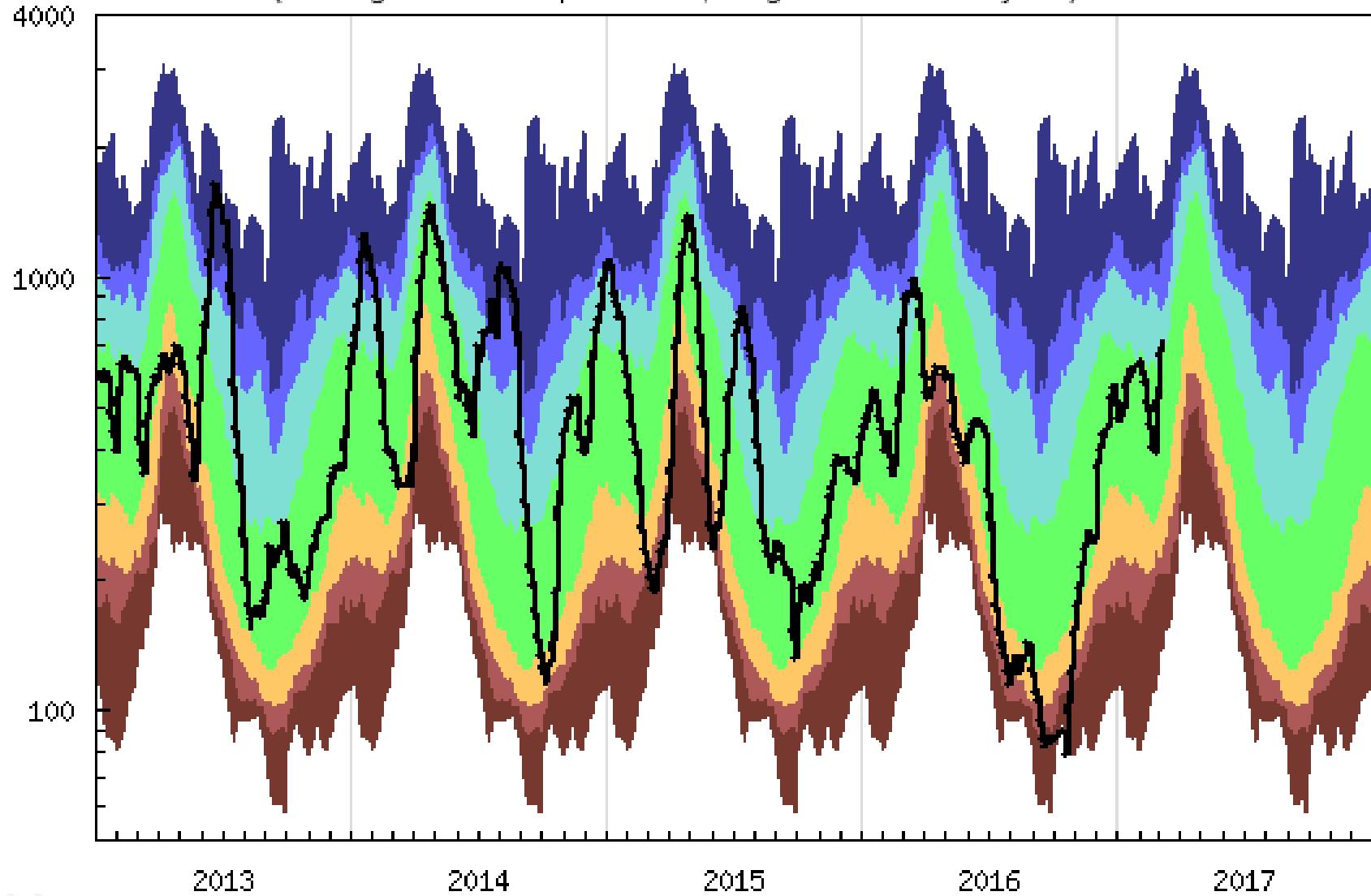


Explanation - Percentile classes

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

28-day average discharge, in cubic feet per second



2013

2014

2015

2016

2017

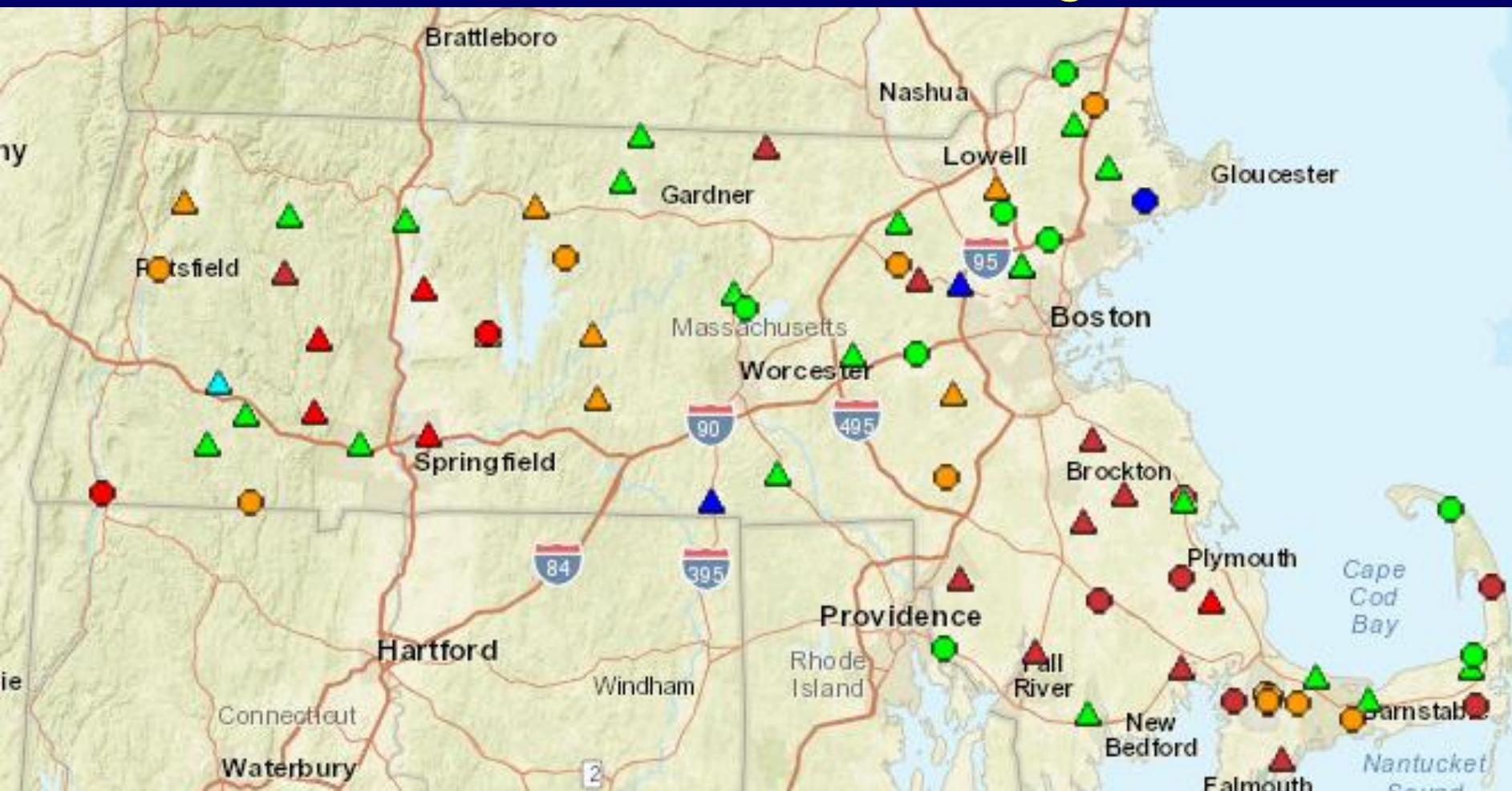
 USGS WaterWatch

 USGS
science for a changing world

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		

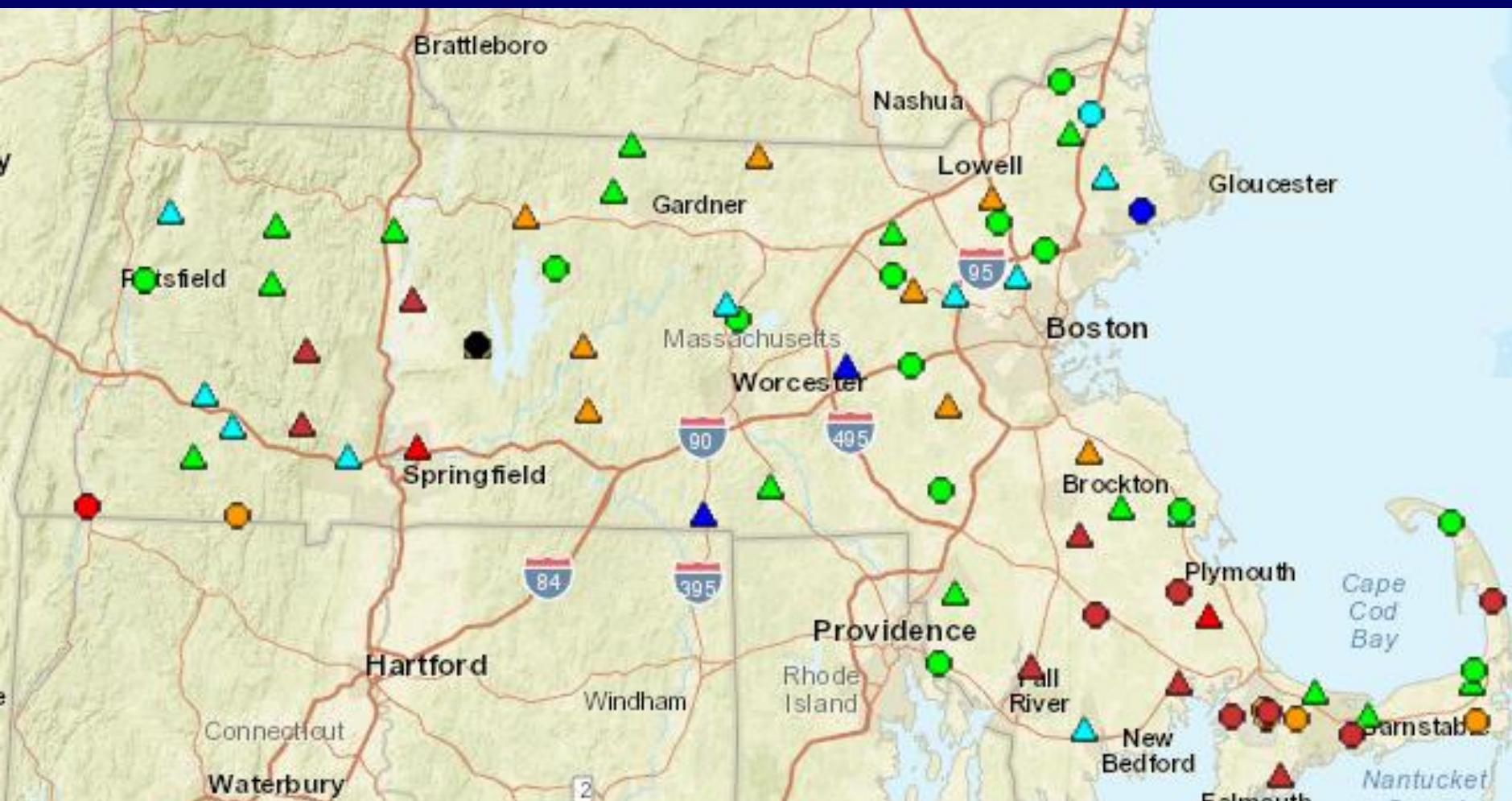
Groundwater Conditions During Dec. 2016



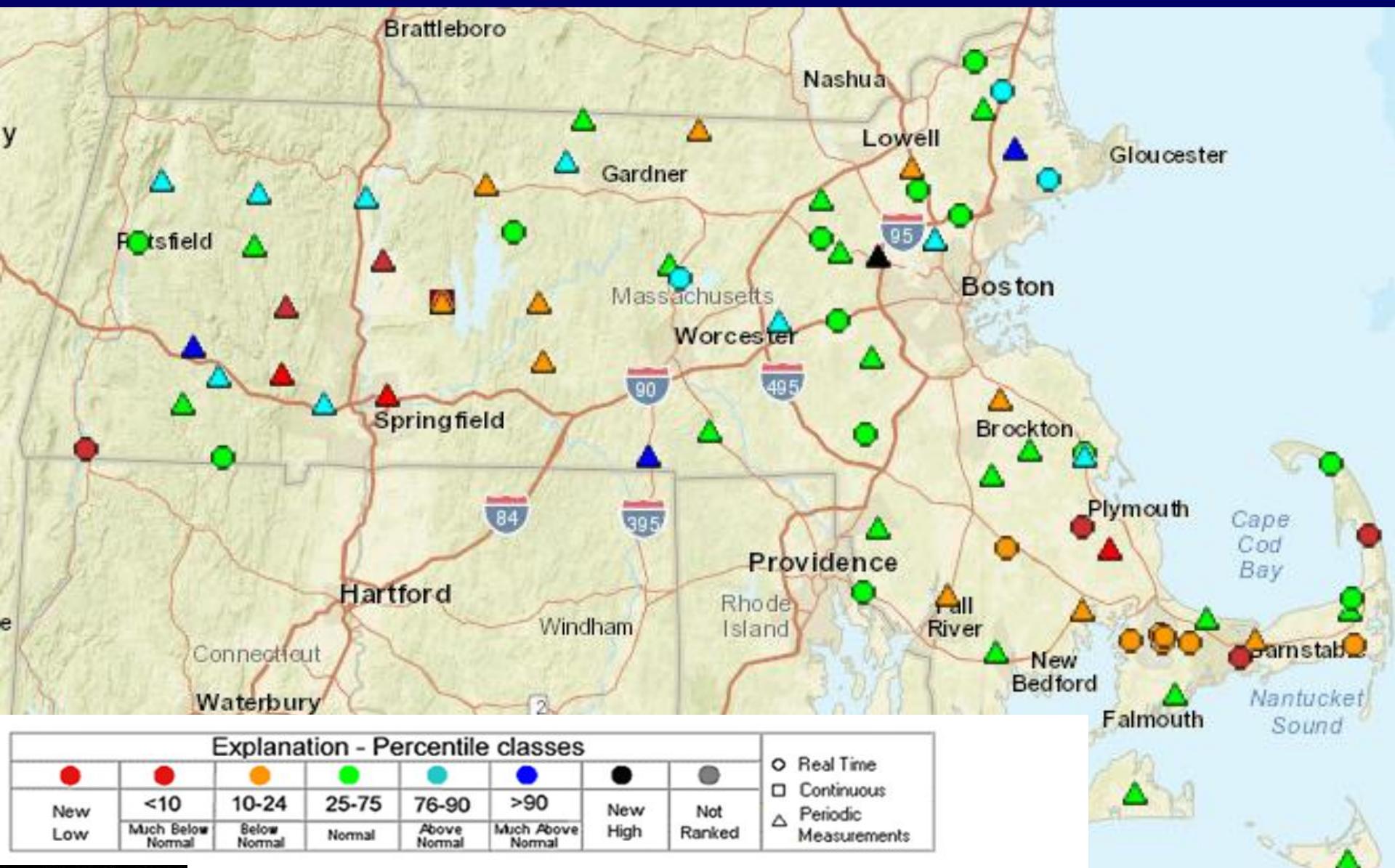
Explanation - Percentile classes

	<10	10-24	25-75	76-90	>90	New High	Not Ranked
New Low	Red Circle	Orange Circle	Green Triangle	Cyan Circle	Blue Circle	Black Circle	Grey Circle
Much Below Normal	<10	10-24	25-75	76-90	>90	New High	Not Ranked

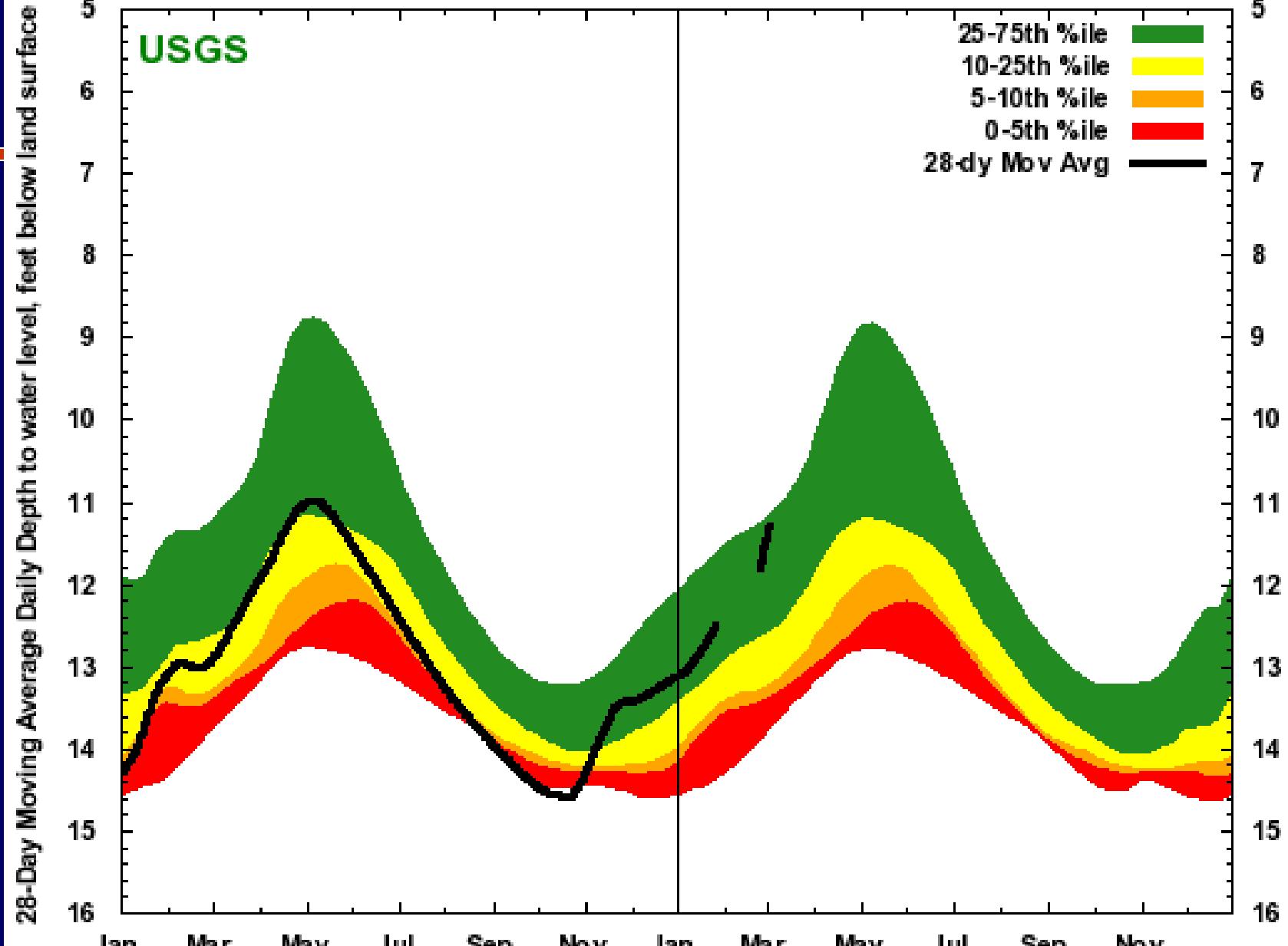
Groundwater Conditions During Jan. 2017



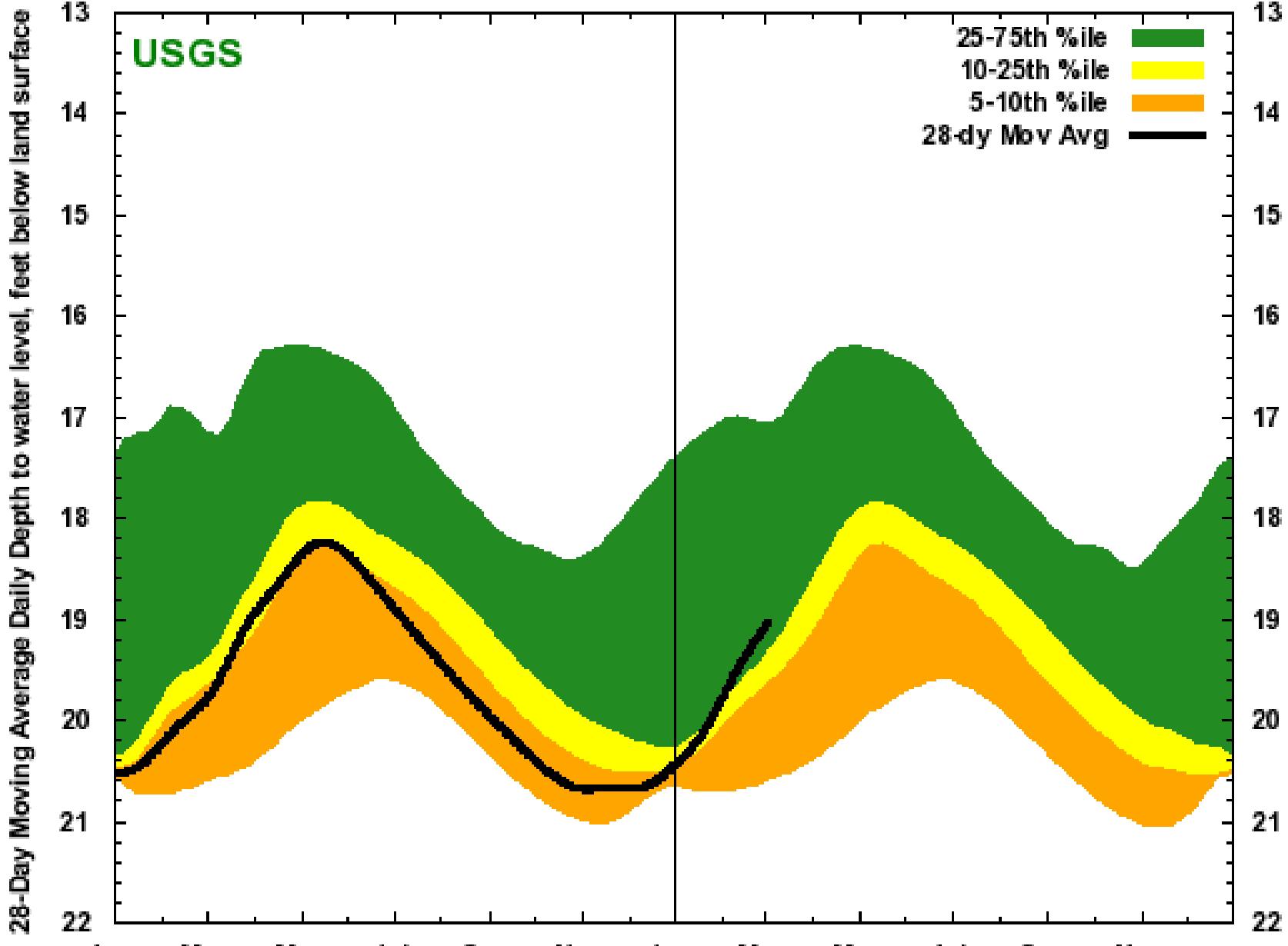
Groundwater Conditions During Feb. 2017



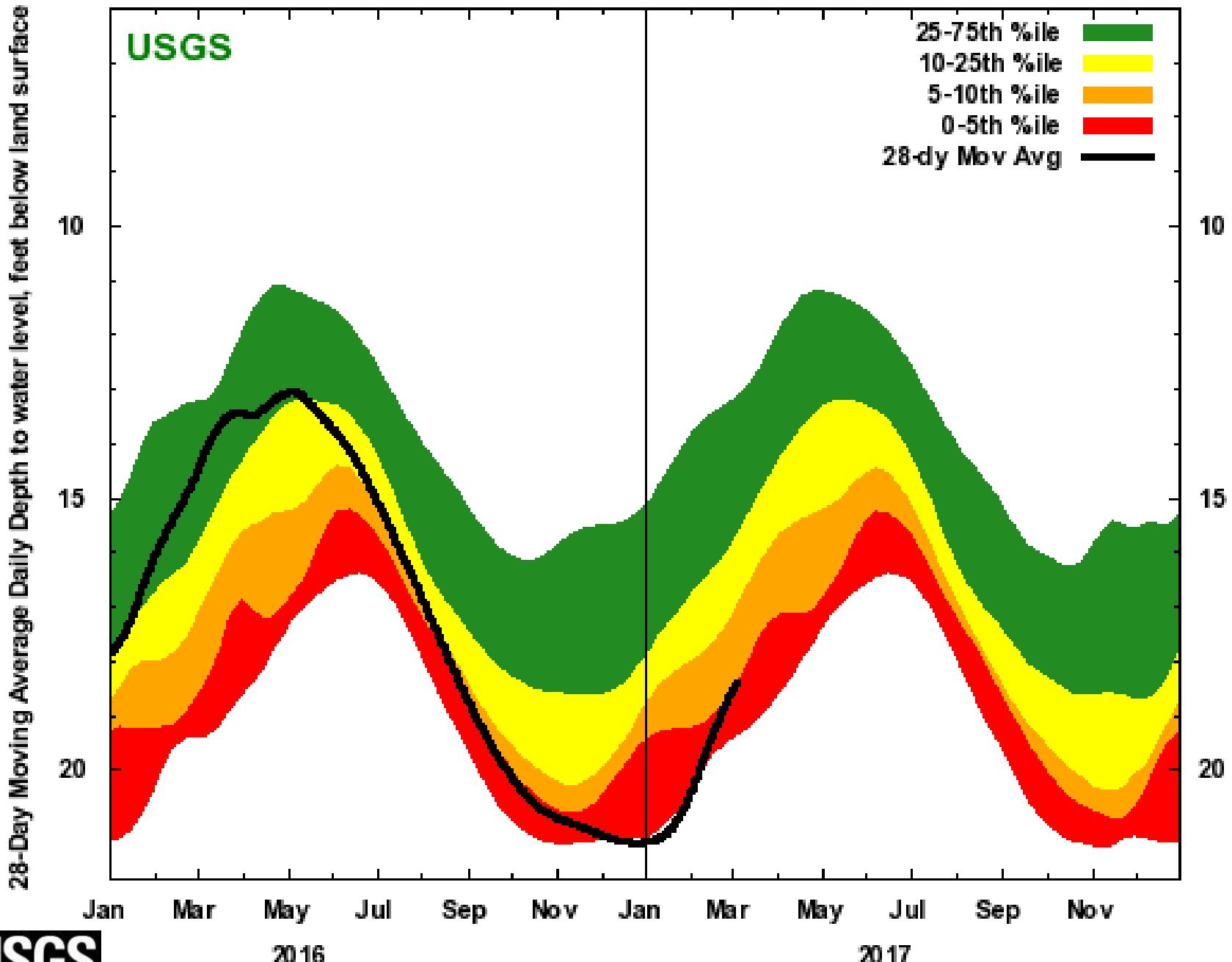
424841071004 101 - MA-HLW 23 HAVERHILL, MA



422812071244401 - MA-ACW 158 ACTON, MA



415228070554601 - MA-LKW 14 LAKEVILLE, MA



422745073112001 - MA-PTW 51 PITTSFIELD, MA

