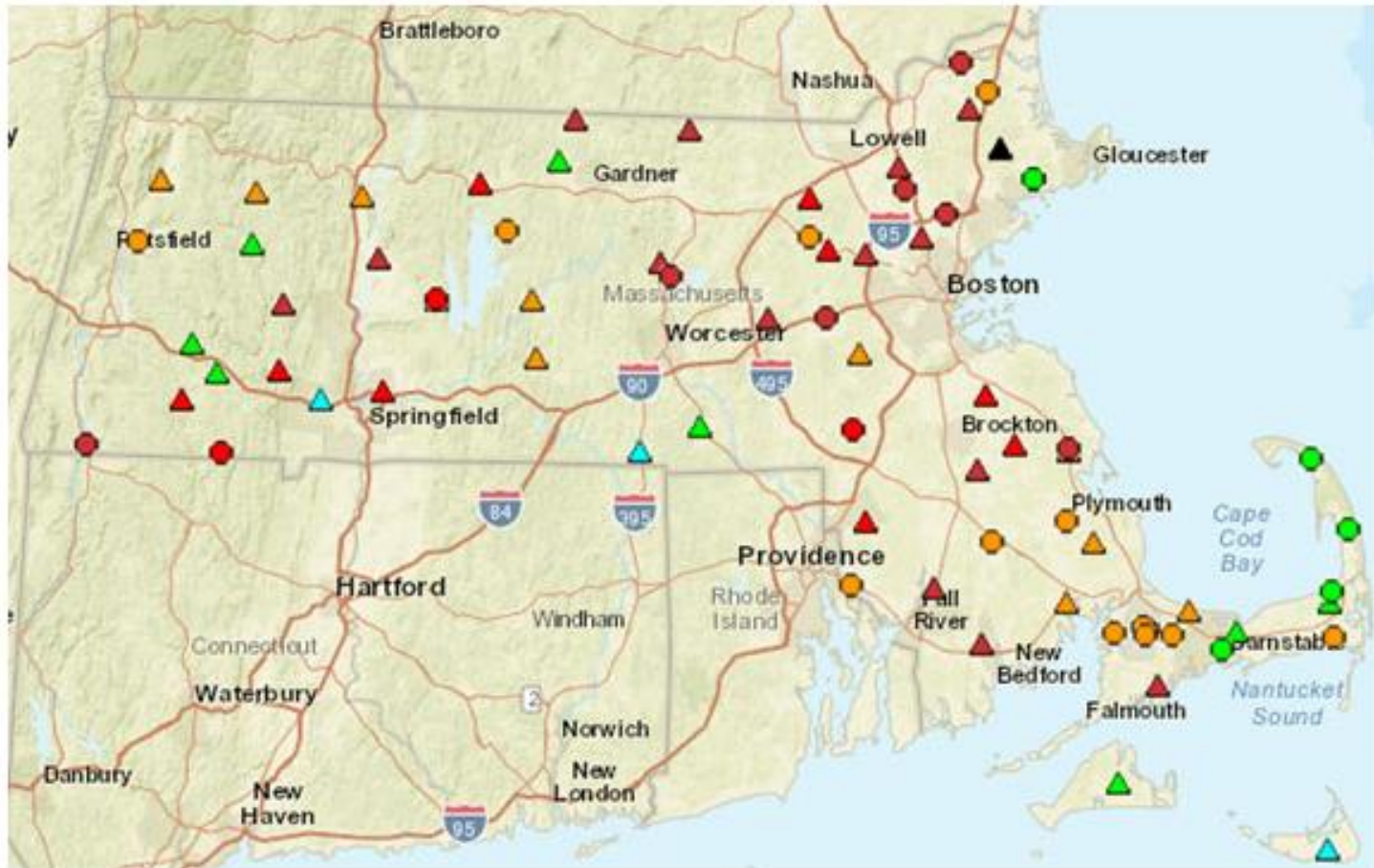


Update on the USGS Groundwater Network

Richard Verdi and Roy Socolow
U.S. Geological Survey
New England Water Science Center
Massachusetts – Rhode Island Office

Current Climate Response Network

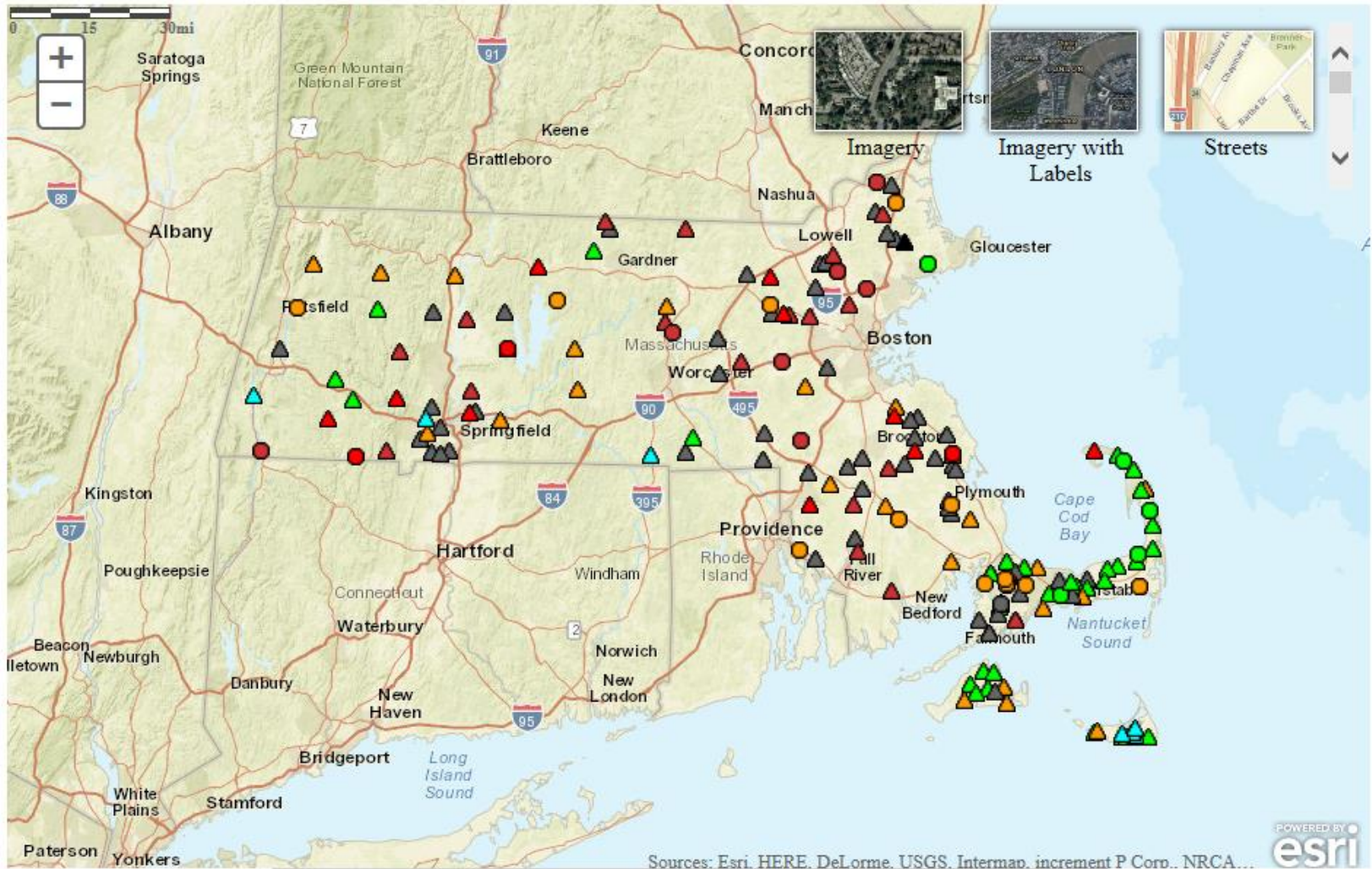
Sept. 7, 2016



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

Current Active Water Level Network

Sept. 7, 2016



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCA...



Explanation - Percentile classes (symbol color based on most recent measurement)							Wells			Springs		
●	●	●	●	●	●	●	○	○	□	□	△	△
Low	<10	10-24	25-75	76-90	>90	High	Real-Time	Continuous	Periodic Measurements	Not Ranked		
	Much Below Normal	Below Normal	Normal	Above Normal	Much Above Normal							



Status of MA Climate Response Observation Well Network, 2016

- Total of 75 wells (29 recording, 46 monthly)
- Plans to replace 40 aging wells in 2016-2017 using USGS grant of \$164K
- Potential 2016 DEP capital funds to upgrade 10-15 monthly wells to recording wells (depends on additional O&M funds from state for recording wells)
- Successful re-drill of new Colrain 8 well (MA-CSW 8R) on Aug. 11, 2016
- Unsuccessful attempt to drill new Heath, MA well

Observation Well Network Maintenance and Well Upgrades

- Maintained 15 wells during 2016
- Maintained 22 wells during 2015
- Added eight bedrock wells during 2014-2016
- Removed nine wells from CRN during 2015