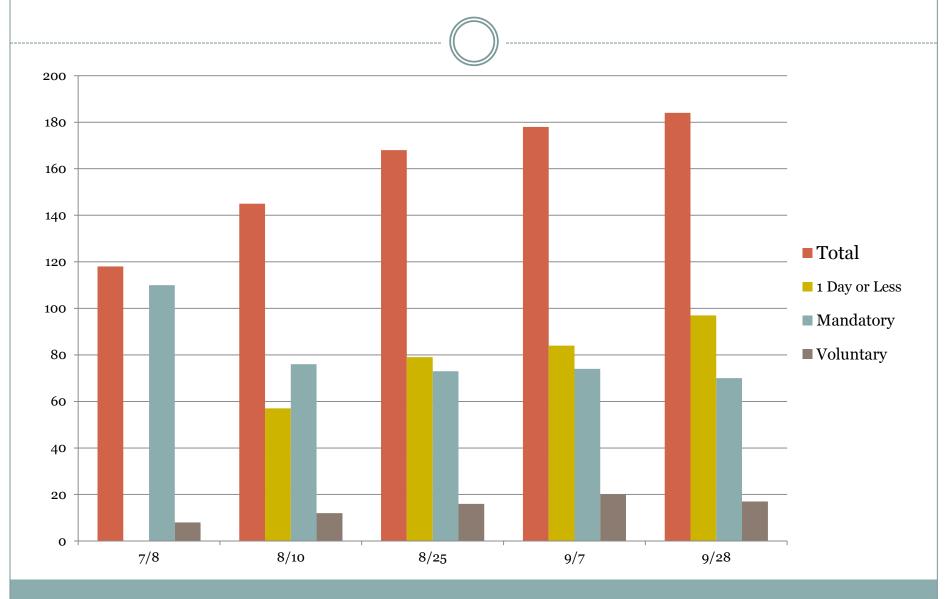
Drought Management Task Force Meeting 10/5/2016

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MassDEP CURRENT MUNICIPAL WATER USE RESTRICTIONS Non-Essential Outdoor Water Use Restrictions as of September 28, 2016 RESTRICTION LEVEL BY TOWN The Municipal Water Use Restrictions List* specifies which Public Water Suppliers are instituting restrictions. Please check with local officials to confirm restrictions. 1 Day of Watering per No Restriction Reported / Registered Only System week or Less Allowed Very Small or No Municipal Water Supply Mandatory Restriction Water Supply Emergency Declared Voluntary Restriction * The Municipal Water Use Restrictions List can be found at http://www.mass.gov/eea/docs/dep/water/resources/n-thru-y/wateruse.pdf SOURCE: MassDEP Bureau of Resource Protection, Water Management Program. Data provided by municipal public water suppliers. MassDEP GIS Program For more information contact MassDEP Water Management Program at 617-292-5706. 9/28/2016

Outdoor Water Use Restrictions 2016



EMERGENCY DECLARATIONS IN EFFECT

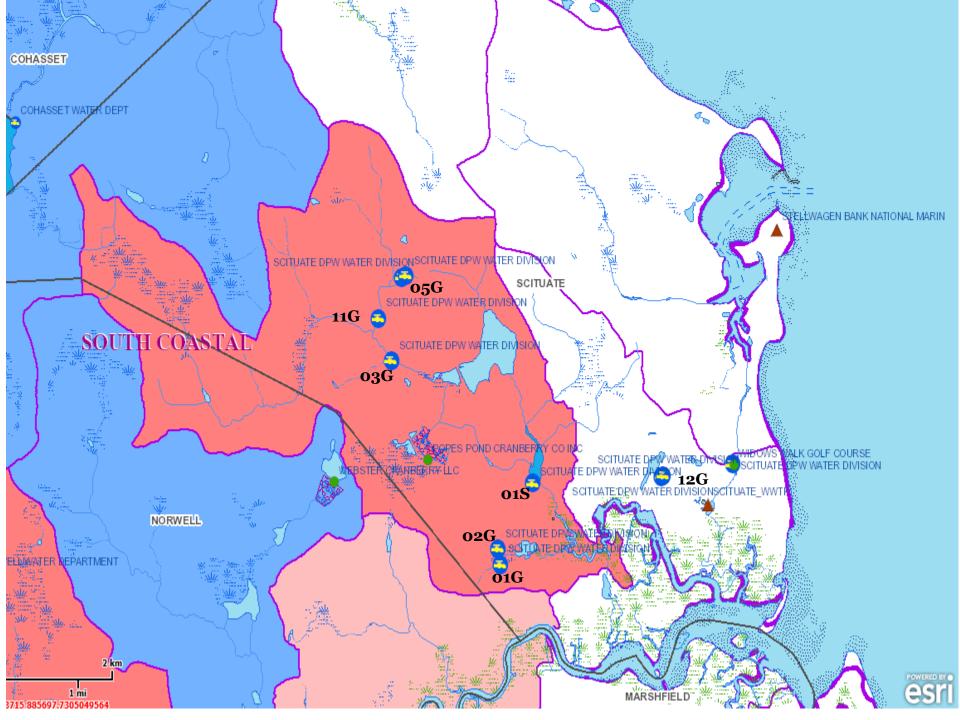
- **Ashland** low GW levels; allow purchase from MWRA that requires an IBT approval
- **Plymouth** meeting demands and system pressure issues; use of an existing well despite it being below the pond level shutoff triggers in WMA permit
- **Ipswich** low reservoir levels; use of existing wells at volumes that may exceed the WMA permitting threshold
- **Foxborough** source testing and availability; use of existing well with IBT and WMA groundwater shutoffs values in effect
- **Burlington** Reservoir levels and stream limits; allows purchase from MWRA that would require an IBT approval

Emergency Declaration Conditions

- System-wide ban on non-essential water use for the duration of the declaration
- Reporting on measures:
 - o to notify consumers of the ban including text of Reverse-911 calls and any additional means to deliver information
 - o taken to implement and enforce the ban, including assessement of penalties or fines
 - o trends on water use during the declaration
 - o to limit the use of private wells
- Declaration may not exceed six months

Scituate Water Use Facts

- 18,680 winter population served
 - 7,727 total service connections
 - 7,438 residential connections (88% of metered use in 2015)
- Registered: 1.49 mgd (1 sw & 6 gw sources)
- Permit: 0.31 mgd (1.80 mgd total could be increased to 1.85 mgd with mitigation plan.)
- 58 RGPCD and 20% UAW in 2015
- 2014 use = 1.53 mgd / 2015 use = 1.46 mgd
- Approx. 65-70% of water is from GW sources



Scituate's Proactive History

- Restrictions allow 1 day per week of watering based on voting precinct.
- May 2015 prohibited new irrigation systems being added to system
- Bans tied to reservoir levels
- Streamflow restoration efforts on First Herring Brook
 - Interim streamflow release plan
 - Fish ladder modifications
 - Plans for dam modifications

Drought 2016 Timeline

- 5/1 Implemented standard restrictions (1 day/week)
 - o 5/6 reservoir at 100% capacity
 - o 6/1 reservoir at 65% capacity
 - o 7/1 reservoir at 53% capacity
- 7/8 Hand-held only watering allowed
 - o 7/15 reservoir at 43% capacity
- 8/5 Total Ban
 - Reservoir below 28% capacity triggering full ban
 - 8/8 release stopped
 - o 9/1 reservoir at 21.5% capacity
 - o 9/26 reservoir at 21.4% capacity

Controlling Demand

Year	Peak Day + Date (mgd)	Peak Month Ave. (mgd)	Annual Ave. Day (mgd)
2016	2.64 (7/4)	1.94 (July)	
2015	2.97 (7/21)	1.92 (July)	1.46
2014	2.96 (7/1)	2.25 (July)	1.53

August 2016	Peak Day (mgd)	Average Day (mgd)	Comments*
8/1 – 8/10	1.668	1.42	8/5 Ban (.03" rain on 8/1)
8/11-8/20	1.473	1.36	0.38" 8/11; 0.22" 8/14-15
8/21-8/31	1.431	1.26	0.77" 8/22; 0.12" 8/27

January 2015 averaged 1.20 mgd

^{*} precip. values from DCR's Scituate gage

Public Outreach

- Drought Crisis Management Team meeting weekly
- Water Conservation Post-Card sent 9/2
- Town Website posting of PSA and Water Conservation tips
- Soliciting town residents to submit water conservation tips
- Facebook Postings & emails via Town email alert list
- Conservation education in schools with NSRWA
- Video series on Scituate's water supply + conservation tips
- Enforcement
 - Violations of bans being issued
 - Public posting of streets where violations occurred