

## Water Supply Update

*Serving the Communities of Hingham, Hull, & North Cohasset*

### News and Notes



Work on the shallow water main replacement project continues on Logan Avenue and Alsada Road in Hull. Through the end of June approximately 770 feet of new 8" cement-lined, ductile iron water main has been installed to replace the old 6" unlined cast iron water main from 1920. After the work on Alsada Road is complete, the contractor will be mobilizing to Elmore Road in Hingham to complete Phase 1 of the project. Phase 2 will be completed in 2019 and includes Maple Lane in Hull and a portion of Cadish Avenue in Hull. Once the project is complete, we will be able to eliminate the use of bleeders. This will save approximately 1.2 million gallons of water per year.



We also completed two new connections to the Main Street and approximately 60 feet (each) of new 8" cement-lined, ductile iron water main for a future water main replacement project on Arnold Road. This work was done in coordination with the Hingham Department of Public Works and the Main Street gas main replacement project. Aquarion service technicians made the connections to the existing water main on Main Street and our contractor completed the installation of the new 8" pipe on Arnold Road to replace the existing 2" main.

Our customer water conservation program continues to be a great success. Since March 2017, we have completed the replacement of over 544 toilets with new water conservation units for over 312 customers. The work completed has resulted in water conservation savings of approximately 8,223 gallons per day (approximately 3.0 million gallons per year)! If you have not already had the opportunity to sign up for our customer water conservation program, or tell others about it, please visit our website at [www.aquarionwater.com/conservationoffers](http://www.aquarionwater.com/conservationoffers).

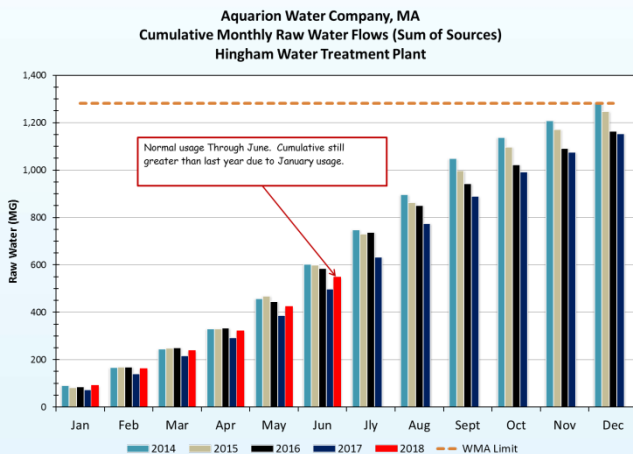
We want to thank our customers for participating in the seasonal water restrictions. Twice-weekly restrictions will remain in effect through October 15. The restrictions apply only to irrigation systems and hose-end sprinklers. Customers with odd number street addresses may only water on Tuesdays and Saturdays, and those with even number street addresses may only water on Wednesdays and Sundays. On these assigned days, customers are allowed to water before 10 a.m. and after 6 p.m., when evaporation losses are minimized and more water goes to the plants' roots. For more information on maintaining a health lawn while also conserving water please visit our website at [www.aquarionwater.com/watering](http://www.aquarionwater.com/watering).

### Water Resource Management

Our wells remain in excellent shape for the summer. We cleaned and rehabilitated them this past spring. In addition, we just completed renovations and upgrades to our Free Street Well #2. The Free Street Well #2 was formerly an “emergency” supply source with limited capabilities. We are now able to use this well at a pumping rate of over 1 million gallons per day, which greatly increases the reliability of service and ability to deliver water to the treatment plant for our customers.

Aquarion is continuing field work and engineering evaluations of our Fulling Mill resource area water supply study. The resource areas have been surveyed and our engineers are preparing a computerized watershed model to evaluating our ability to store water from Accord Brook during high stream flows and release the water into Fulling Mill Brook to augment flows in the Weir River during low flow periods.

### Water Supply and Demand – Summer is Here!

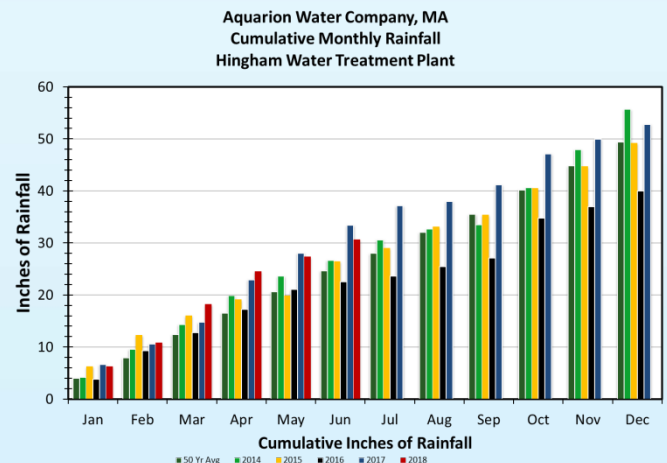


Water demands for June 2018 were normal for this time of year. The average amount of water pumped from our sources to meet demands in June was 4.16 million gallons per day (MGD). Although the cumulative usage through June (3.04 MGD) is greater than last year at this time, the cumulative usage is still the 3<sup>rd</sup> lowest in the past eight years. We anticipate that water demands and summer usage will continue to increase in July, and we are confident that we will be able to meet our customer’s needs.

### Weather Trends

The total amount of recorded precipitation for June 2018 was 3.32 inches, which is 0.74 inches below the historic average precipitation for the month of June. However, cumulative precipitation through the month of June is 30.69 inches, which is 6.02 inches above average.

Recent precipitation has allowed our aquifer to remain at normal groundwater levels for this time





of year. The water level of Accord Pond is also above average for this time of year. Currently at 74% capacity, this represents a usable volume of over 205 million gallons.

### *Community Outreach*

We enjoyed helping create many memorable moments for the Hingham Elementary School PTOs, South Shore Pan-Mass Challenge Kids Ride at Wompatuck State Park, Hingham Recreation Department, Hingham Lion's Club, and the Hingham Downtown Association last month.

[Check out our video scrapbook here!](#)

If you haven't already please Like us on Facebook and help spread the word... # Just Water?

<https://www.facebook.com/HinghamWaterFacts>

**Aquarion Water Company, MA**

**Monthly Average Water Withdrawals (including Hingham, Hull, & N. Cohasset)**

Month/Yr	2011 (MGD)	2012 (MGD)	2013 (MGD)	2014 (MGD)	2015 (MGD)	2016 (MGD)	2017 (MGD)	2018 (MGD)	Average (MGD)
January	3.19	2.75	2.78	2.62	2.65	2.77	2.34	2.98	<b>2.73</b>
February	3.08	2.62	2.72	2.60	3.08	2.87	2.43	2.54	<b>2.77</b>
March	2.84	2.69	2.61	2.57	2.60	2.65	2.44	2.48	<b>2.63</b>
April	2.88	3.20	2.42	2.76	2.73	2.74	2.57	2.75	<b>2.76</b>
May	3.47	3.73	3.21	4.06	4.41	3.59	3.04	3.30	<b>3.64</b>
June	4.35	3.49	3.94	4.75	4.34	4.66	3.73	4.16	<b>4.18</b>
July	4.87	4.06	4.63	4.64	4.23	4.94	4.31		<b>4.53</b>
August	3.87	3.14	4.34	4.79	4.32	3.67	4.57		<b>4.10</b>
September	2.89	2.81	4.03	5.09	4.51	3.05	3.84		<b>3.75</b>
October	3.01	2.35	3.57	2.89	3.21	2.59	3.35		<b>3.00</b>
November	2.70	2.48	2.93	2.36	2.46	2.29	3.22		<b>2.63</b>
December	2.73	2.59	2.66	2.46	2.46	2.33	2.54		<b>2.54</b>
<b>Average (MGD)</b>	<b>3.32</b>	<b>2.99</b>	<b>3.33</b>	<b>3.47</b>	<b>3.42</b>	<b>3.18</b>	<b>3.16</b>	<b>3.04</b>	<b>3.27</b>

MGD - Million Gallons per Day

\* Includes Meter Corrections

Annual Water Management Act Registration Limit: 3.51 MGD

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Month/Yr	2011 (MG)	2012 (MG)	2013 (MG)	2014 (MG)	2015 (MG)	2016 (MG)	2017 (MG)	2018 (MG)	Average (MG)
January	98.89	85.17	86.33	81.37	82.11	85.89	72.55	92.35	<b>84.61</b>
February	86.27	76.11	76.27	72.79	86.12	83.16	67.91	71.07	<b>78.38</b>
March	88.19	83.29	80.98	79.52	80.72	82.21	75.49	76.80	<b>81.49</b>
April	86.52	95.94	72.63	82.70	81.99	82.23	76.97	82.52	<b>82.71</b>
May	107.58	115.63	99.41	125.74	136.57	111.28	94.27	102.23	<b>112.93</b>
June	130.45	104.80	118.22	142.44	130.20	139.81	112.00	124.86	<b>125.42</b>
July	151.05	125.83	143.48	143.84	131.10	153.18	133.49		<b>140.28</b>
August	119.85	97.19	134.51	148.39	133.94	113.87	141.68		<b>127.06</b>
September	86.72	84.25	121.02	152.74	135.38	91.38	115.19		<b>112.38</b>
October	93.24	72.93	110.76	89.59	99.47	80.41	103.83		<b>92.89</b>
November	80.88	74.49	87.81	70.85	73.69	68.71	82.45		<b>76.98</b>
December	84.77	80.28	82.49	76.41	76.14	72.18	78.71		<b>78.71</b>
<b>Total (MG)</b>	<b>1,214.42</b>	<b>1,095.91</b>	<b>1,213.91</b>	<b>1,266.36</b>	<b>1,247.43</b>	<b>1,164.31</b>	<b>1,154.57</b>	<b>549.83</b>	<b>1,200.39</b>
<b>Average (MGD)</b>	<b>3.32</b>	<b>2.99</b>	<b>3.33</b>	<b>3.47</b>	<b>3.42</b>	<b>3.18</b>	<b>3.16</b>	<b>3.04</b>	<b>3.28</b>

MG - Million Gallons

MGD - Million Gallons per Day

\* Includes meter corrections

**Aquarion Water Company, MA**  
**Monthly Water Supply Report**  
**Hingham/Hull/Cohasset**

**Month**  
**June**

**Year**  
**2018**

**Monthly Supply Pumping Summary**

Accord Pond	32.64	MG	26.1%
Scotland St Well #1	16.44	MG	13.2%
Scotland St Well #1A	6.06	MG	4.9%
Prospect St Well	7.25	MG	5.8%
Free St Well #2	0.00	MG	0.0%
Free St Well #2A	17.94	MG	14.4%
Free St Well #3	0.00	MG	0.0%
Free St Well #4	19.89	MG	15.9%
Free St Well #5	7.20	MG	5.8%
Fulling Mill Well #1	11.53	MG	9.2%
Fulling Mill Well #2	5.92	MG	4.7%
Fulling Mill Cistern	0.00	MG	0.0%
Downing St Well	0.00	MG	0.0%
	124.86	MG	100.0%
	4.16	MGD	

**Accord Pond (last day of the month)**

Water Elevation (Ft)	139.7
Usable Volume (MG)	205.0
Capacity (%)	74.5

MG - Million Gallons

MGD - Million Gallons Per Day

**Statistics**

**Pumping**

Maximum Day (MGD)	5.76
Date	06/17/18

Minimum Day (MGD)	3.03
Date	06/05/18

**Year to Date**

Maximum Day (MGD)	5.76
Date	06/17/18

Average Day (MGD)	3.04
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**Temperature (°F)**

Maximum	89.6
Date	06/30/18

Minimum	50.2
Date	06/03/18

**Precipitation**

Monthly Total (Inches)	3.32
Annual Total (Inches)	30.69