

Water Supply Update

Serving the Communities of Hingham, Hull, & North Cohasset

News and Notes

- Work on the Shallow Water Main Replacement project has continued. New water mains and services are complete and on-line on Logan Avenue and Alsada Road in Hull. Through the end of July, approximately 1,850 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. The contractor has now mobilized to Elmore Road in Hingham to complete Phase 1 of the project. Phase 2 will be completed in 2019 and includes Hayes Road in Hingham and Maple Lane and a portion of Cadish Avenue in Hull. Once completed, we will be able to eliminate the use of bleeders and save approximately 1.2 million gallons of water per year.
- At our Water Treatment Plant, we completed several upgrades to our lime mixing system including new mixers and level sensors. The old mixers had been in service for over 10 years and had reached the end of their useful service life.
- Our customer water conservation program continues to be a great success. Since March 2017, we have completed the replacement of over 586 toilets with new water conservation units for over 341 customers. The work completed has resulted in water conservation savings of approximately 9,100 gallons per day (approximately 3.3 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.
- We want to thank our customers for participating in the seasonal water restrictions. Twice a week 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.
- We are making preparations to begin our fall flushing program in late September. This fall, we will complete flushing of northeast Hingham, Cohasset, and Hull. Flushing will be conducted in the evenings from 9:00 p.m. until 5:00 a.m., Sundays through Thursdays. We will provide detailed information on the streets to be flushed each week and evening on our website.



Water Resource Management

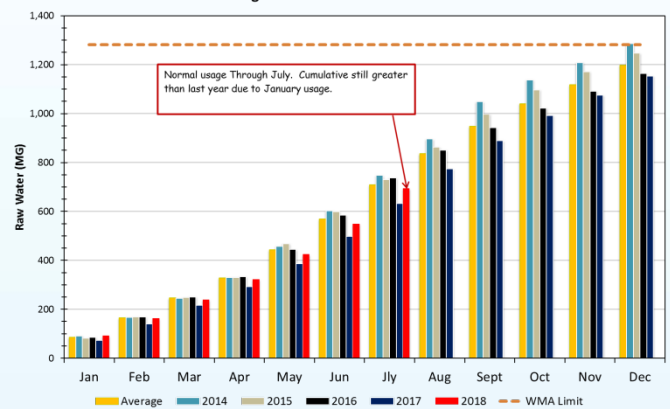
Our wells and Accord Pond remain in great shape for the summer. We have been using our recently upgraded Free Street Well #2 regularly since June. In addition, we have been taking advantage of all the recent precipitation and pumping water from Accord Pond more than usual in the summer.

In addition, Aquarion is continuing to evaluate the Full Mill resource area. 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. We are planning to complete a Fulling Mill Pond stream flow release study and inspect the horizontal collection well that feeds the cistern dug well in August 2018.

Water Supply and Demand

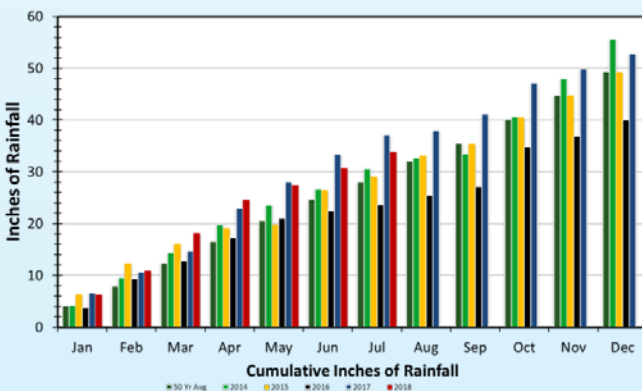
Water demands for July 2018 were slightly greater than average for this time of year. The average amount of water pumped from our sources to meet demands in July 2018 was 4.67 million gallons per day (MGD). Although the cumulative usage through July (3.28 MGD) is greater than last year at this time, the cumulative usage is still below average. We anticipate that water demands and summer usage will remain steady in August, pending the amount of precipitation we receive. We are confident that we will continue to meet the needs of our customers.

Aquarion Water Company, MA
 Cumulative Monthly Raw Water Flows (Sum of Sources)
 Hingham Water Treatment Plant



Weather Trends

Aquarion Water Company, MA
 Cumulative Monthly Rainfall
 Hingham Water Treatment Plant



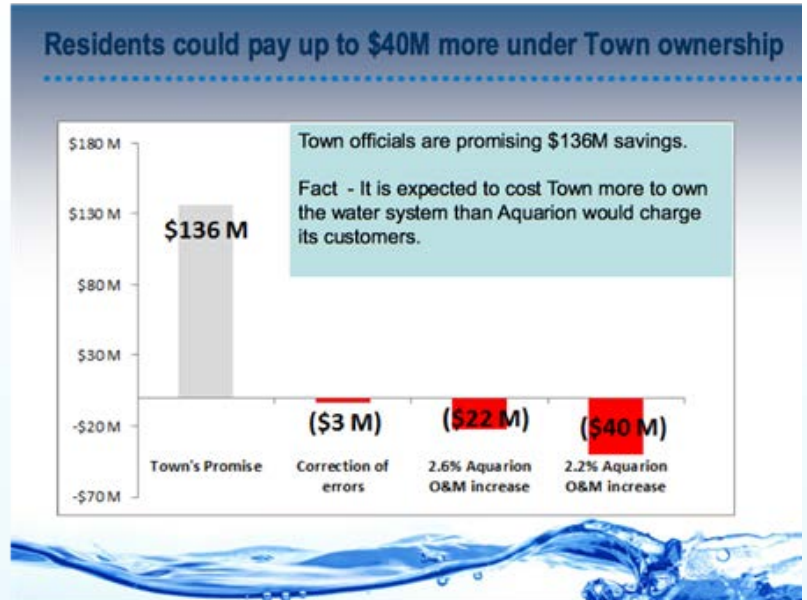
The total amount of recorded precipitation for July 2018 was 3.22 inches, which is 0.12 inches below the historic average precipitation for the month of June. However, cumulative precipitation through the month of July is 33.91 inches, which is 5.91 inches above average.

Recent precipitation has allowed our aquifer to remain at normal groundwater levels for this time of year. In addition, the water level of Accord Pond is above average for this time of year. It is at 50% capacity, which represents a usable volume of over 137.5 million gallons.

Community Outreach

Aquarion was pleased to provide water to a number of community events in Hingham and in Hull in July. We attended and supported the Hingham 4th of July Road Race and Parade, the annual Pan Mass Challenge, the Nantasket Beach Run in Hull, the Coop Troup race at Bare Cove Park, and events at the Hingham Yacht Club and Hull Yacht Club.

On August 13, we held a forum at the South Shore Country Club concerning the Town of Hingham Acquisition Study Group and the Town's financial analysis to purchase Aquarion's water system in Hingham, Hull, and North Cohasset. An Aquarion review and evaluation of the Town's financial analysis indicates that Hingham, Hull and North Cohasset residents will pay \$3 million more in their water bills under Hingham Town ownership after Hingham officials fix the errors in their financial model. In addition, if Town officials correct the model to reflect Aquarion's annual operations and maintenance (O&M) growth rate of 2.2%, customers will pay approximately \$40 million more over the next 31 years under town ownership.



Check out our website at www.aquarionwater.com for addition information on Aquarion's award winning water system.

If you haven't already, please Like us on Facebook at 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	2.73
February	3.08	2.62	2.72	2.60	3.08	2.87	2.43	2.54	2.77
March	2.84	2.69	2.61	2.57	2.60	2.65	2.44	2.48	2.63
April	2.88	3.20	2.42	2.76	2.73	2.74	2.57	2.75	2.76
May	3.47	3.73	3.21	4.06	4.41	3.59	3.04	3.30	3.64
June	4.35	3.49	3.94	4.75	4.34	4.66	3.73	4.16	4.18
July	4.87	4.06	4.63	4.64	4.23	4.94	4.31	4.67	4.53
August	3.87	3.14	4.34	4.79	4.32	3.67	4.57		4.10
September	2.89	2.81	4.03	5.09	4.51	3.05	3.84		3.75
October	3.01	2.35	3.57	2.89	3.21	2.59	3.35		3.00
November	2.70	2.48	2.93	2.36	2.46	2.29	3.22		2.63
December	2.73	2.59	2.66	2.46	2.46	2.33	2.54		2.54
Average (MGD)	3.32	2.99	3.33	3.47	3.42	3.18	3.16	3.28	3.27

MGD - Million Gallons per Day

* Includes Meter Corrections

Annual Water Management Act Registration Limit: 3.51 MGD

Aquarion Water Company, MA

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

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	84.61
February	86.27	76.11	76.27	72.79	86.12	83.16	67.91	71.07	78.38
March	88.19	83.29	80.98	79.52	80.72	82.21	75.49	76.80	81.49
April	86.52	95.94	72.63	82.70	81.99	82.23	76.97	82.52	82.71
May	107.58	115.63	99.41	125.74	136.57	111.28	94.27	102.23	112.93
June	130.45	104.80	118.22	142.44	130.20	139.81	112.00	124.86	125.42
July	151.05	125.83	143.48	143.84	131.10	153.18	133.49	144.85	140.28
August	119.85	97.19	134.51	148.39	133.94	113.87	141.68		127.06
September	86.72	84.25	121.02	152.74	135.38	91.38	115.19		112.38
October	93.24	72.93	110.76	89.59	99.47	80.41	103.83		92.89
November	80.88	74.49	87.81	70.85	73.69	68.71	82.45		76.98
December	84.77	80.28	82.49	76.41	76.14	72.18	78.71		78.71
Total (MG)	1,214.42	1,095.91	1,213.91	1,266.36	1,247.43	1,164.31	1,154.57	694.68	1,200.39
Average (MGD)	3.32	2.99	3.33	3.47	3.42	3.18	3.16	3.28	3.28

MG - Million Gallons

MGD - Million Gallons per Day

* Includes meter corrections

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

Month
July

Year
2018

Monthly Supply Pumping Summary

Accord Pond	58.22	MG	40.2%
Scotland St Well #1	14.72	MG	10.2%
Scotland St Well #1A	5.61	MG	3.9%
Prospect St Well	1.36	MG	0.9%
Free St Well #2	3.41	MG	2.4%
Free St Well #2A	22.43	MG	15.5%
Free St Well #3	0.00	MG	0.0%
Free St Well #4	19.76	MG	13.6%
Free St Well #5	3.23	MG	2.2%
Fulling Mill Well #1	11.27	MG	7.8%
Fulling Mill Well #2	4.85	MG	3.3%
Fulling Mill Cistern	0.00	MG	0.0%
Downing St Well	0.00	MG	0.0%
	144.85	MG	100.0%
	4.67	MGD	

Accord Pond (last day of the month)

Water Elevation (Ft)	137.7
Usable Volume (MG)	137.5
Capacity (%)	50

MG - Million Gallons

MGD - Million Gallons Per Day

Statistics

Pumping

Maximum Day (MGD)	6.33
Date	07/04/18

Minimum Day (MGD)	3.42
Date	07/27/18

Year to Date

Maximum Day (MGD)	6.33
Date	07/04/18

Average Day (MGD)	3.28
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Temperature (°F)

Maximum	98
Date	07/03/18

Minimum	58.5
Date	07/07/18

Precipitation

Monthly Total (Inches)	3.22
Annual Total (Inches)	33.91