

## Water Supply Update

*Serving the Community of Oxford*

### News and Notes

💧 PFAS – By now most of you have learned a bit about a new drinking water contaminant : Per- and Poly- Fluoroalkyl Substances (PFAS). These man-made compounds have been dubbed “forever chemicals” as they persist in the environment for a long time. They are nearly ubiquitous in our daily lives as they can be found in consumer products (gortex, carpeting, furniture, sunscreen) and food products (pizza boxes, microwave popcorn bags, non-stick frying pans). In 2018 the Massachusetts Department of Environmental Protection implemented a health advisory level for PFAS in drinking water of 70 parts per trillion (ppt) for 5 PFAS compounds (PFOS, PFOA, PFNA, PFHpA, & PFHxS). In early 2019 DEP proposed a groundwater clean-up standard of 20 ppt for 6 PFAS compounds, and later in December 2019 DEP proposed a new drinking water limit (maximum contaminant level), matching the 20 ppt clean-up standard.



As a result, to minimize the risk to our customers Aquarion made a decision to voluntarily sample all of our water supply sources. We collected samples from all of our wells in Oxford on October 3, 2019, and received the results from the laboratory on October 21, 2019. The results indicated that PFAS levels at all of our water supplies are well below the proposed drinking water standard of 20 ppt. We have posted sampling results and information about PFAS on our website at: <https://www.aquarionwater.com/water-quality/learn-about-pfas/ma-pfas-faqs>

- 💧 Work is proceeding on the North Main Street Well program to reduce groundwater manganese levels at this wellfield. This multi-year project is evaluating two options to address source water manganese levels at the North Main Street wellfield: 1) treatment and 2) replacement with a new source. This year we plan to complete a conceptual design report for the treatment option and exploratory drilling at 2 additional sites.
- 💧 Aquarion is re-evaluating our anticipated 2020 capital improvement plan based on the N. Main Street wellfield manganese issue. Stay tuned for an update on the proposed Nelson St Well #3 upgrade, Church St water main replacement, and Prospect Hill Tank rehabilitation.
- 💧 We are planning our next Customer Advisory Board meeting at Pine Ridge Country Club in March 2020. At the meeting we will review our 2020 capital improvement plans and operations. The meeting will also include a presentation about our water system hydraulic model.

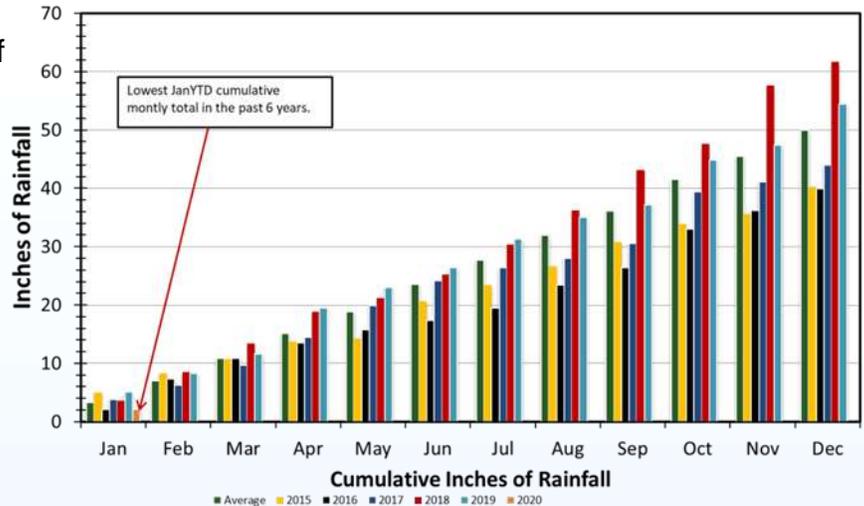
Stewards of the Environment™

Community Outreach: this past fall/winter Aquarion supported the Oxford Lions Club (Fall Festival), Oxford Little League, the Oxford Firefighters Association (Toys for Tots), Oxford Schools, and completed residential conservation work at about a dozen customers homes.

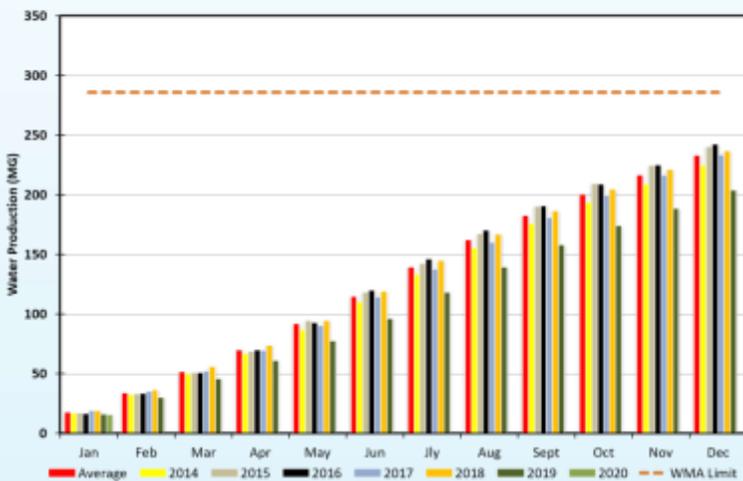
**Weather Trends**

Total Precipitation for 2019 was 54.45 inches, which was 4.16 inches above average. So far in 2020, the amount of precipitation we received in January was 2.09 inches. This monthly amount is 1.76 inches below the historic average for the month of January. However, based on all of the precipitation in 2019, groundwater levels are normal for this time of year.

Aquarion Water Company, MA  
Cumulative Monthly Rainfall  
Millbury/Oxford



Aquarion Water Company  
Cumulative Monthly System Delivery (MG)  
Oxford Water System



**Water Supply and Demand**

The average annual water demand for 2019 was 558,000 gallons per day (gpd), which is approximately 79,000 gallons per day lower than the historic annual average. The water demand for the month of January 2020 was 506,000 gpd, which is approximately 70,000 gpd below the average usage for January. We attribute this decrease in usage to the repair of several large water mains leaks. We are confident that we will continue be able to meet our customer’s needs. Some statistical pumping information for the month of January

2020 is attached separately to this Water Supply Update.

**Aquarion Water Company, MA**  
**Monthly Water Supply Report**  
**Oxford**

**Month**  
**January**

**Year**  
**2020**

**Monthly Supply Pumping Summary**

N. Main St Well #1A	0.00	MG	0.0%
N. Main St Well #1	0.06	MG	0.4%
N. Main St Well #2	2.93	MG	18.7%
Nelson St Well #3	12.69	MG	80.9%
	15.67	MG	100.0%
	0.506	MGD	

**Precipitation**

Monthly Total (Inches)	2.19
Annual Total (Inches)	37.19

**Statistics**

**Pumping**

Maximum Day (MGD)	0.817
Date	01/05/20

Minimum Day (MGD)	0.391
Date	01/28/20

**Year to Date**

Maximum Day (MGD)	0.817
Date	01/05/20

Average Day (MGD)	0.506
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