

PUBLIC WORKS DEPARTMENT

MONTHLY INFORMATION REPORT

March 2020

HIGHLIGHTING DATA METRICS

TO IDENTIFY OPERATIONAL TRENDS

AND

FACILITATE INFORMED DECISION MAKING

505 TELSER ROAD LAKE ZURICH, IL 60047

DEPARTMENTAL NARRATIVE

Park Maintenance: Crews continue to address both routine and specific maintenance items as needed. Staff has been monitoring facilities during the Covid-19 pandemic insuring proper sanitation is occurring. Facility HVAC system levels have been adjusted in an effort to minimize usage.

Winter Events: Crews are performing routine maintenance on vehicles and equipment associated with winter operations. There were zero events in March which required crews to perform de-icing procedures. Projections show that overtime usage will be well below anticipated for the 19-20 season.

Competitive Bidding: Staff prepared all documents for the spring planting of replacement Emerald Ash Borer trees. The contract has been awarded to Acres Landscaping. All documentation including a 100% performance bond has been received and signed. Planting is scheduled to begin in mid-April.

Staff has completed preparation of 2020 Seal Coating documents. Documents were opened on March 20th, 2020. Staff has begun the review process, and anticipates board approval in mid-April.

Staff has completed preparation of documents and locations to be included in the 2020 Thermoplastic (painting) Program. Areas such as school zones, fire stations, crosswalks, and subdivisions with fading markings are being evaluated to be prioritized for this year's program. Pricing is being reviewed, with operations anticipated to begin in late April.

March Water Main Break Locations: 570 Lions Drive 1490 Bristol Trail Road

Thorndale Lift Station Replacement: Concrete, asphalt and landscaping restoration will be completed in spring.

Water Main Replacement: The bid opening for the Rt. 12 water main project occurred on December 18, 2019. Copenhaver Construction Inc. was the low bid and awarded the contract. Construction began on March 16 but several conflicts have since slowed initial progress. Substantial completion is still anticipated on or around June 16, 2020.

Employee Training:

All Employees attended ladder safety training.

Staff Kudos:

Mike,

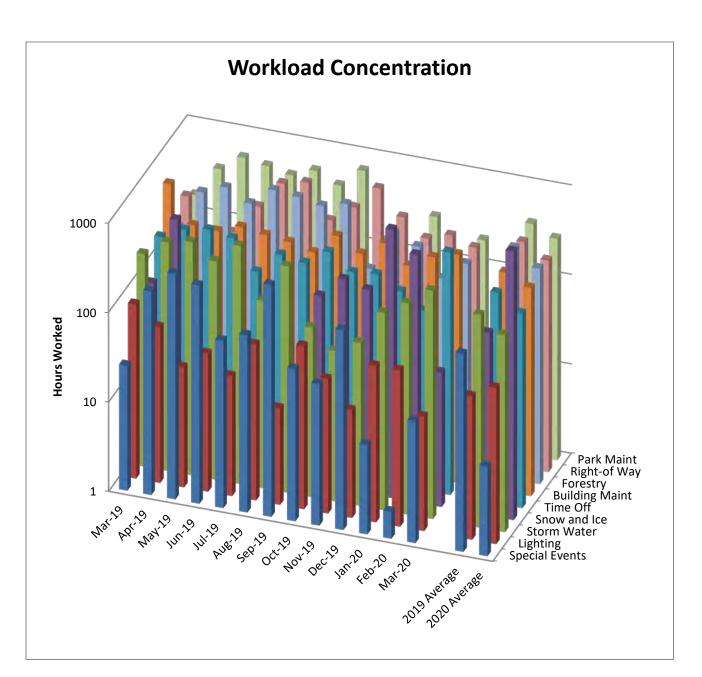
Thank you for returning my call last week regarding our individual request for information regarding bird feeders in our community.

Thanks to you I did call and speak with Mary Meyer.

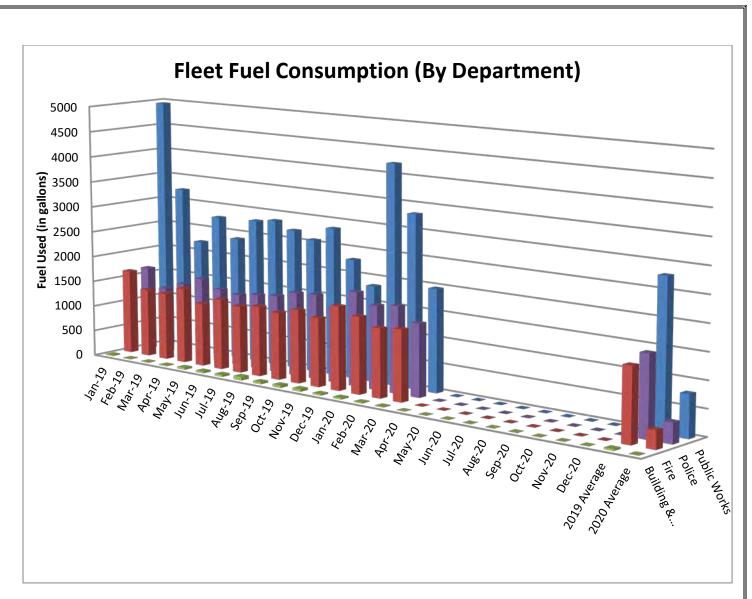
Thank you again and all the best to you and family during these upcoming weeks.

Best Regards,

David Harbick



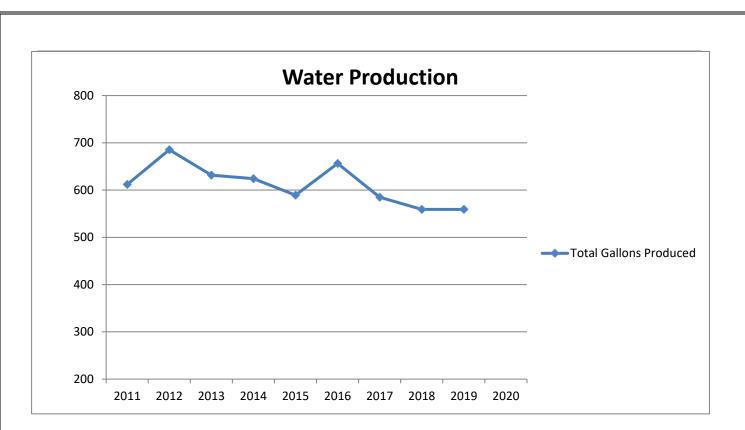
A core function of Public Works are related to the completion of work orders for several categories, including administrative, forestry, park maintenance, municipal property maintenance, right-of-way, snow and ice, street lighting, and storm water system maintenance. This chart shows the number of hours worked on major activities.



Tracking fuel consumption allows staff to make informed decisions relating to the municipal vehicle fleet, including the number of vehicles in each department, the types of vehicles purchased and the type of fuel source used. Dramatic fluctuations in fuel consumption can occur during events such as heavy snowstorms. (Output measure)



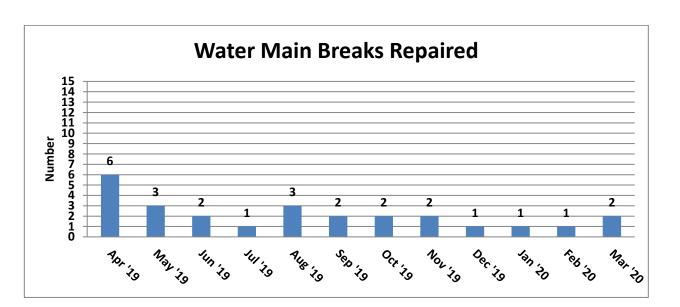
Vehicle cost per mile is an initial indicator of an efficient fleet operation. With basic cost per mile information in hand, all components that feed into that cost can be scrutinized and measured. These components include labor rates, fuel costs and parts costs. Looking further into the Village' vehicle cost per mile, staff can measure other components such as average vehicle age. When vehicles are replaced within their life cycle, the impact is usually positive.



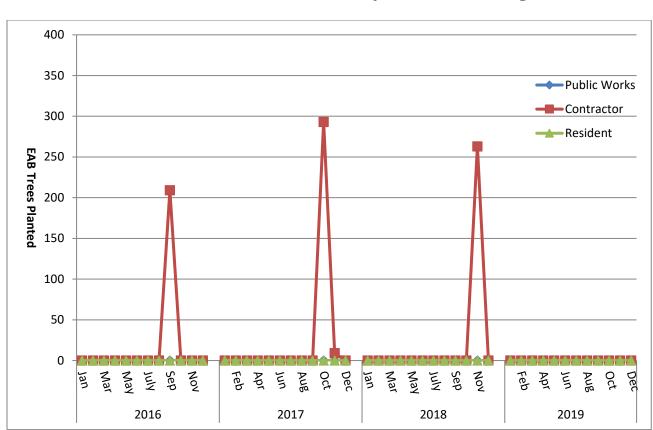
From 2012 to 2015, there was a steady decline in the annual volume of water produced and used by our community. This trend was altered in 2016 due to dry weather leading to increased watering of lawns and landscaped areas.

	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	47.229	49.905	53.387	49.414	49.301	46.667	45.868	44.227	<mark>43.867</mark>
February	44.311	44.679	47.574	44.590	45.801	<mark>40.952</mark>	41.098	41.452	41.645
March	45.379	47.903	50.717	47.756	53.467	44.543	<mark>43.155</mark>	43.946	43.552
April	47.426	49.241	48.801	48.025	55.963	49.974	45,098	<mark>43.570</mark>	
May	55.957	55.637	53.786	51.788	60.273	49.588	48,065	<mark>45.339</mark>	
June	72.098	52.697	54.277	49.314	63.819	56.169	46.114	<mark>45.489</mark>	
July	88.490	60.383	57.475	<mark>52.978</mark>	68.751	53.755	57.074	59.526	
August	71.191	64.299	58.865	57.018	66.229	54.746	<mark>54.067</mark>	61.419	
September	60.446	54.801	52.535	49.748	58.664	53.928	46.809	<mark>44.786</mark>	
October	54.287	51.133	50.722	47.667	45.838	47.169	44.369	<mark>43.476</mark>	
November	48.533	49.229	48.117	44.274	42.120	42.335	42.089	<mark>41,475</mark>	
December	50.002	51.850	47.938	46.754	46.088	44,961	45.305	<mark>44.379</mark>	
Total	685.349	631.757	624.194	589.326	656.314	584.787	559.111	559.084	129.064
Avg	1.873	1.731	1.710	1.615	1.793	1.598	1.532	1.532	1.418
% incr/decr	12.01%	-7.82%	-1.20%	-5.59%	11.37%	-12.23%	-4.59%	0%	

The highlighted months are the lowest for each of these months in the last 9 years. The highest monthly production in the last 8 years occurred in July of 2012. In 2019, our daily average was 1.53 million gallons per day.



A water main break can be a hole or crack in the water main. Common causes of breaks in the water main include: age, pipe material, shifting in the ground attributed to fluctuations in moisture and temperature (below and above the frost line), corrosive soil that causes a thinning of the water main pipe, improper backfill, severe changes in water pressure (hammer) which has several causes and physical contact (damage) by excavating contractors.



Emerald Ash Borer Tree Replacement Program

