Interpretation of the control

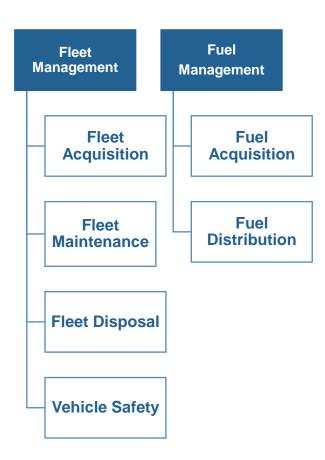


FLEET SERVICES



PROGRAM MAP

Fleet Services



Fleet Services provides professional fleet management services to our clients in a fiscally and environmentally responsible manner. Services include:

- Preventative maintenance services for vehicles and equipment to support divisional operations and comply with legislative requirements
- Provide safety training, testing and certification to approximately 11,000 City employees who
 are required to operate City vehicles and equipment.
- Oversee and direct the City's fuel management operations, including, safety and compliance management, staff training and the associated management of fueling stations and the fueling of over 7,100 assets.
- Provide leadership in City-wide Fleet Management such as shared services, procurement and greening the City's fleet



SUMMARY OF PERFORMANCE MEASUREMENT RESULTS

Question	Indicator/Measure	Internal Comparison of Toronto's 2016 vs. 2015 Results	External Comparison to Other Municipalities (MBNC) By Quartile for 2016	Chart & Page Ref.					
Community Impact Measures									
How many of Toronto's fleet are green vehicles?	Number of Green Vehicles – (Community Impact)	Increase Number of green vehicles increased		10.1 pg. 5					
What mileage are Toronto's fleet vehicles getting?	Litres of Fuel Consumed per 100 Km - (Community Impact)	Stable Vehicle mileage was stable in 2016	Stable vehicle mileage than others (densely populated and congested urban form)	10.2 10.3 pg 5/6					
What is the provincial safety rating for the operation of City of Toronto Vehicles?	Provincial Commercial Vehicle Operators Registration (CVOR) S Safety Rating - (Community Impact)	Increased Safety rating increased in 2016	N/A	10.4 pg 6					
	Custon	ner Service/Quality Measures							
How much reactive (unplanned) vehicle maintenance has to be done?	Reactive (Unplanned) Vehicle Maintenance as a Percentage of all Vehicle Maintenance – (Customer Service)	Stable Amount of unplanned reactive maintenance remained stable	3 Higher rate of unplanned reactive maintenance compared to others	10.5 10.6 pg. 7/8					
	2	Efficiency Measures	-						
What does it cost to operate a light-duty vehicle per kilometer?	Operating Cost per Light Duty Vehicle KM – (Efficiency)	Decrease Cost per light-duty vehicle km decreased	Higher cost per vehicle km compared to others (due to densely populated and congested urban form)	10.7 10.8 pg. 8/9					
What does it cost to operate a mediumduty vehicle per kilometer?	Operating Cost per Medium Duty Vehicle KM – (Efficiency)	Decrease Cost per medium-duty vehicle km decreased	Higher cost per vehicle km compared to others (due to densely populated and congested urban form)	10.7 10.8 pg. 8/9					
What does it cost to operate a heavy-duty vehicle per kilometer?	Operating Cost per Heavy Duty Vehicle KM – (Efficiency)	Stable Cost per heavy-duty vehicle km was stable	Higher cost per vehicle km compared to others (due to densely populated and congested urban form)	10.7 10.8 pg. 8/9					



Question	Indicator/Measure	Internal Comparison of Toronto's 2016 vs. 2015 Results		External Comparison to Other Municipalities (MBNC) By Quartile for 2016		Chart & Page Ref.
What is the annual cost to operate a light-duty fleet vehicle?	Annual Operating Cost per light-duty vehicle – (Efficiency)	Decrease Cost per light-duty vehicle decreased		3 Higher annual cost per light-duty vehicle compared to others		10.9 10.10 pg. 10
What is the annual cost to operate a medium-duty fleet vehicle?	Annual Operating Cost per medium-duty vehicle – (Efficiency)	Cost per n	Decrease st per medium-duty ehicle decreased Higher annual cost per medium-duty vehicle compared to others		ual cost per luty vehicle	10.9 10.10 pg. 10
What is the annual cost to operate a heavy-duty fleet vehicle?	Annual Operating Cost per heavy-duty vehicle – (Efficiency)	Decrease Cost per heavy-duty vehicle decreased		3 Higher annual cost per heavy-duty vehicle compared to others		10.9 10.10 pg. 10
Overall Results		Service Level Indicators (Resources)	Performance Measures (Results) 6- Favourable 3 - Stable 1 - Unfavorable 90% favorable or stable	Service Level Indicators (Resources)	Performance Measures (Results) 0 - 1st quartile 0 - 2nd quartile 5 - 3nd quartile 3 - 4th quartile 0% in 1st and 2nd quartile	

For an explanation of how to interpret this summary and the supporting charts, please see the Guide to Toronto's Performance Results. These quartile results are based on a maximum sample size of 14 municipalities.



COMMUNITY IMPACT

Toronto is greening its fleet. A "green vehicle" is defined as one that reduces fuel consumption and/or reduces emissions of greenhouse gases and air pollutants, relative to a conventional vehicle. Examples of green vehicles include those with an ultra-fuel-efficient design, hybrid-electric or plug-in electric drive system, or an engine that uses cleaner alternative fuel or electricity as its energy source.

10.1 - HOW MANY OF TORONTO'S FLEET ARE GREEN VEHICLES?

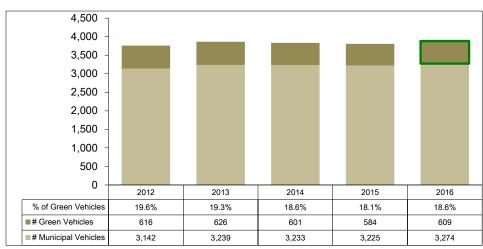


Chart 10.1 shows that in 2016 there were 609 green vehicles representing 18.6% of the fleet. The number of green vehicles has continued to grow each year, with a slight increase in 2016.

Chart 10.1 (City of Toronto) Number of Green Vehicles

The use of green vehicles and more fuel efficient conventional vehicles improves mileage (litres per 100 km travelled) and decreases emissions.

10.2 - WHAT MILEAGE ARE TORONTO'S FLEET VEHICLES GETTING?

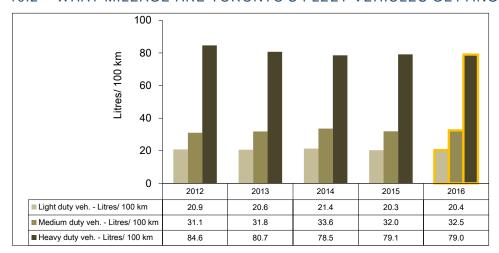


Chart 10.2 shows the litres of fuel consumed per 100 km for light, medium and heavy duty vehicles. In 2016, the mileage achieved for light duty, medium duty, and heavy duty vehicles were relatively stable.

Chart 10.2 (City of Toronto) Litres of Fuel Consumed per 100 Km



10.3 -HOW DOES THE MILEAGE OF TORONTO'S FLEET VEHICLES COMPARE TO OTHER MUNICIPALITIES?

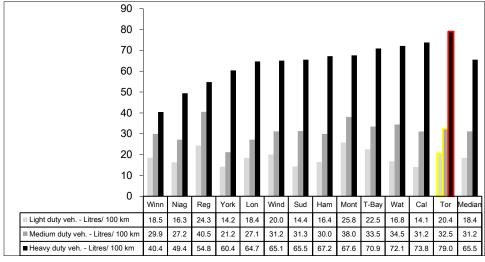


Chart 10.3
compares Toronto's
2016 mileage by
vehicle class to
other municipalities.
The main reason
behind Toronto's
results is due to the
urban environment
that results in much
higher traffic
congestion and
constant starts and
stops.

Chart 10.3 (MBNC 2016) Litres of Fuel Consumed per 100 Km

In terms of the lowest litres of fuel used per 100 km travelled, in 2016 by vehicle class Toronto ranked:

- Light duty vehicles tenth of thirteen (third quartile);
- Medium duty vehicles ninth of thirteen (third quartile); and
- Heavy duty vehicles thirteenth of thirteen (fourth quartile)

10.4 -WHAT IS THE PROVINCIAL SAFETY RATING FOR THE OPERATION OF CITY OF TORONTO VEHICLES?

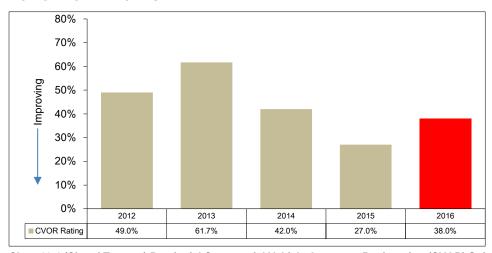


Chart 10.4 provides 2012 to 2016 data from the Ontario Ministry of Transportations' Commercial Vehicle Operator's Registration System (CVOR).

Chart 10.4 (City of Toronto) Provincial Commercial Vehicle Operators Registration (CVOR) Safety Rating

Fleet Services has a number of programs for city vehicles and drivers/operators to ensure the safe operation of equipment and to maintain good public relations with those who use the City roadways. These programs include mandatory driver training and testing, promoting collision



prevention through investigation and review of all collisions and performing spot checks on the road to monitor driver compliance with applicable legislation and safety policies.

With an objective of increasing road safety, the Provincial CVOR program applies to businesses and government organizations that operate certain types of vehicles including commercial motor vehicles weighing 4,500 kg or more. The CVOR program assesses an operator based on 1. Collisions 2. Convictions 3. Roadside Inspection involving the operator's vehicle and operator. Safety rating ranges from excellent to unsatisfactory along with a percentage. Toronto's rating is updated regularly by the MTO based on recent safety performance, with the rating increasing each time a negative event is recorded for city vehicles or drivers as a result of collisions, convictions or inspections involving the City's vehicles falling under this program.

CUSTOMER SERVICE

Unplanned vehicle maintenance increases vehicle downtime which results in increased maintenance costs as well as reduced productivity of staff. A vehicle that is being regularly serviced during its useful life through an effective preventative maintenance program will have minimal amounts of unplanned maintenance or vehicle breakdowns. In 2016, 65% percent of these mechanic hours related to reactive, unplanned maintenance.

10.5 – HOW MUCH REACTIVE (UNPLANNED) VEHICLE MAINTENANCE HAS TO BE DONE IN TORONTO?

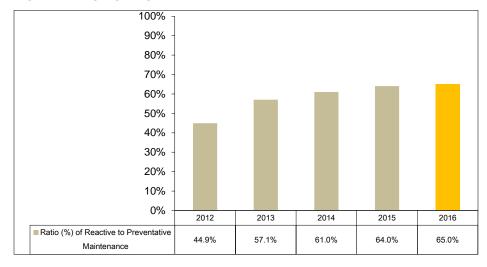


Chart 10.5 provides
Toronto's results for
the percentage of
unplanned reactive
vehicle maintenance
as a percentage of all
vehicle maintenance
labour hours.

Chart 10.5 (City of Toronto) Reactive (Unplanned) Vehicle Maintenance as a Percentage of all Vehicle Maintenance

10.6 – HOW DOES THE AMOUNT OF REACTIVE (UNPLANNED) VEHICLE MAINTENANCE IN TORONTO COMPARE TO OTHER MUNICIPALITIES?

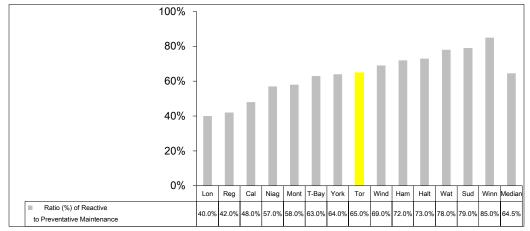


Chart 10.6 (MBNC 2016) Reactive (Unplanned) Vehicle Maintenance as a Percentage of all Vehicle Maintenance

Chart 10.6 compares Toronto's 2016 result to other municipalities. Toronto ranks slightly above the median (third quartile) with a higher rate of unplanned reactive vehicle maintenance.

EFFICIENCY

Vehicle operating costs for this report include the costs of work orders (labour and parts), maintenance work done by external firms plus the cost of fuel. It excludes depreciation, transfers to reserve funds and allocations of program support costs.

MBNC defines light-duty vehicles as less than 4,500 kg, medium-duty vehicles as less than 9,000 kg but higher than 4,500 kg and heavy-duty vehicles as greater than 9,000 kg.

10.7 -WHAT DOES IT COST IN TORONTO TO OPERATE A FLEET VEHICLE PER KM?

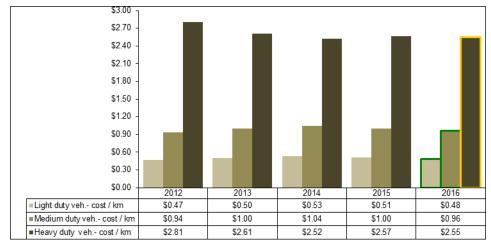


Chart 10.7 shows
Toronto's 2016
operating cost per
vehicle km by
vehicle class. It also
shows decreased
costs in 2016 for
light and medium
duty vehicles, but a
relatively stable
costs for heavy duty
vehicles.

Chart 10.7 (City of Toronto) Operating Cost (by Vehicle Class) per Vehicle km



As noted earlier, Toronto's urban form, with much higher population densities, traffic congestion and starts and stops, leads to higher fuel consumption. It can also lead to more frequent maintenance; therefore, higher costs.

10.8 -HOW DOES TORONTO'S COST TO OPERATE A FLEET VEHICLE PER KM COMPARE TO OTHER MUNICIPALITIES?

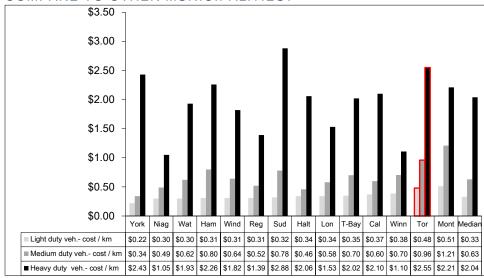


Chart 10.8
compares Toronto
to other
municipalities in
terms of the lowest
cost per vehicle km
by vehicle class.
Toronto ranks:

Chart 10.8 (MBNC 2016) Operating Cost (by Vehicle Class) per Vehicle km

In 2016, Toronto ranks:

- Light duty vehicles thirteenth of fourteen (fourth quartile);
- Medium duty vehicles thirteenth of fourteen (fourth quartile); and
- Heavy duty vehicles thirteenth of fourteen (fourth quartile

An alternative way of examining efficiency, less influenced by urban form, is to consider the annual cost to operate a vehicle.

10.9 -WHAT DOES IT COST TO OPERATE A FLEET VEHICLE IN TORONTO?

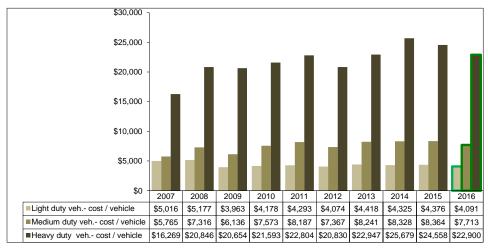


Chart 10.9 shows the annual cost to operate a vehicle in Toronto. In 2016, Toronto's operating cost per vehicle decreased for light, medium, and heavy duty vehicles.

Chart 10.9 (City of Toronto) Annual Operating Cost (by Vehicle Class) per Vehicle

10.10 -HOW DOES THE ANNUAL COST TO OPERATE A FLEET VEHICLE IN TORONTO COMPARE TO OTHER MUNICIPALITIES?

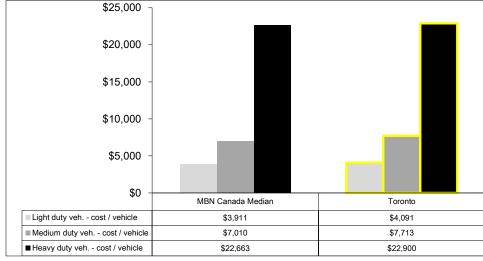


Chart 10.10 (MBNC 2016) Annual Operating Cost (by Vehicle Class) per Vehicle

Chart 10.10

compares Toronto's results to the MBNC median. In terms of the lowest cost to operate a fleet vehicle, Toronto;

Has slightly above the median costs for light duty vehicles;

Has slightly above the median costs for medium duty vehicles; and

Has slightly above the median costs for heavy duty vehicles.



2016 ACHIEVEMENTS AND 2017 PLANNED INITIATIVES

The following initiatives have improved or are expected to further improve the efficiency and effectiveness of the Fleet Services:

2016 Initiatives Completed/Achievements

- Developed and obtained Council approval of an alternate service delivery model for all
 preventative maintenance and repairs for non-specialized class 1-2 vehicles. For Class 1-2
 vehicles, this reliability centered maintenance approach will reduce vehicle downtime by
 67% at the end of the 5 year phased-in implementation. These changes will result in
 improved service delivery and reduced city-wide costs.
- Developed and received approval for a new chargeback/operating cost model that will help to drive efficiencies and fleet optimization through improved transparency and accountability.
- Implemented the City's first car share program for use by all Divisions.
- Integrated the fueling of over 500 TTC assets at Fleet Services Division (FSD) Fuel sites
- Completed the integration of all Fire Services vehicles to FSD fuel sites.
- Completed of fuel site upgrades & closures. Fleet now utilizes 1 software & hardware
 program to manage 23 City-wide fuel sites that fuel over 13,000 assets. All sites now have
 above ground fuel storage tanks that reduce soil contamination, combined with technology
 that allows for secure, real-time, fuel and data management.
- Through leadership in city-wide Fleet Shared Services, continued to leverage procurement leadership to provide TTC, TPA, Toronto Fire Services, Toronto Paramedic Services, Exhibition Place and the Toronto Zoo the ability to procure vehicles or equipment based on existing FSD specifications.
- Completed the upgrade and closure of fuel sites to meet strategic and emergency requirements by 2016 year-end, which will reduce infrastructure costs, and minimize potential environmental risks. As a result, three Parks, Forestry & Recreation fuel sites will be upgraded and oversight transferred to Fleet Services and one low utilized site will be closed.
- Oversaw the delivery of 54 new Compressed Natural Gas (CNG) Collections vehicles. The CNG units support the City's consolidated green fleet plan, in choosing vehicles that emit less GHGs and air pollution, while meeting the City's operational requirements.

2017 Initiatives Planned

- Provide a full-range of fleet management services for City Divisions and Agencies.
- Direct the lifecycle management of the City's fleet including the acquisition, maintenance and disposal of vehicles and equipment based on lifecycle and operational analysis.
- Ensure compliance with Provincial legislation and City policies and guidelines.
- Provide safety training, testing and certification to approximately 11,000 City employees who
 are required to operate City vehicles and equipment.
- Oversee and direct the City's fuel management operations, including, safety and compliance management, staff training and the associated management of fueling stations and the fueling of over 13,000 assets.



- Work closely with client Programs to optimize fleet size through ensuring that all vehicles are required and fully utilized.
- Provide leadership in reducing environmental impact of the City's fleet operations through the City's 2014 - 2018 Consolidated Green Fleet Plan.

Factors Influencing the Results of Municipalities

The results of each municipality included in this report can be influenced to varying degrees by factors such as:

- Fleet Mix The average age of each municipality's fleet, the mix of vehicles in each fleet category, and the number of hours they are in use.
- Urban Form The urban form of a municipality (congested city streets vs. highway use)
 will impact the number of kilometres travelled and the level of wear and tear (example
 constant acceleration and braking) can influence the amount of maintenance required
 and associated costs.