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To: Carmine Rivetti, DCAS Government Relations

From: Keith T. Kerman, Deputy Commissioner

Date: January 25, 2017 

RE: Local Law 75: Report on Use Based Fuel Economy for City Fleet

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Attached is a report on the use-based fuel economy for non-emergency light and medium duty fleet units as required by Local Law 75 of 2013. This is the second report that DCAS has been required to submit in compliance with this law and covers FY15 and FY16 fleet usage.

Thank you.

Cc: Emily Newman, First Deputy Commissioner, DCAS  
Suzanne Lynn, DCAS Counsel  
Sherry Lee, Chief of Staff, Fleet

# **DCAS: REPORT ON THE USE BASED FUEL ECONOMY OF LIGHT AND MEDIUM NON-EMERGENCY VEHICLES IN THE CITY FLEET, FY 2015 (REVISED) and 2016.**

## 1) Summary

In 2013, the City Council passed Local Law 75 regarding the use based fuel economy of the City's non-emergency light and medium duty vehicles. DCAS already reports on the manufacturer's listed miles per gallon (MPG) as part of Local Law 38 of 2005 which governs the purchase of new light and medium duty vehicles. Local Law 75 of 2013 requires the reporting of the actual "use based" fuel economy of City vehicles, as impacted by weather, traffic, use of AC and heaters, idling, and other road and operational conditions.

In 2013, DCAS did not have the reporting capacity to provide use based fuel economy in the manner required by the law. Since 2013, DCAS has implemented a new fleet management system, NYC Fleet Focus; a new gas card contract for private retail fueling; and a new citywide fuel management system for in-house fueling.

The report provided below excludes vehicles reporting under 5 mpg or over 60 mpg. These data points are outliers which represent some limitations in the reporting system that we continue to work to address. This report provides slightly revised FY15 data based on some improvements in tracking for this still new reporting requirement.

This report includes hybrid plug in EV vehicles like the GM Volt (PHEVs) but excludes dedicated EV vehicles, like the Nissan Leaf (BEVs), which use no liquid fuels. The City has been working to expand the number of electric vehicles, both PHEV and BEV, and now operates over 550 EV units. The report also excludes compressed natural gas sedans, mostly at Parks, which also do not use liquid fuel.

Some of the results are as follows:

- Light duty vehicles such as sedans and SUVs are far more fuel efficient (over 100%) than medium duty such as pickups and vans. DCAS works with agencies to down-size and right-size fleet units wherever possible.
- Overall fuel efficiency declined somewhat from FY15 to FY16. However, this is mostly impacted by the addition of 427 vehicles to the report, mostly crew units from DOT and DEP. The FY15 report covered 5,192 vehicles. The FY16 report covers 5,619.
- *Plug in electric vehicles and hybrid electric vehicles achieve far greater use based fuel economy than gasoline vehicles. A plug in hybrid light duty vehicle such as the Chevy Volt is achieving nearly double the fuel economy of a regular gas light duty unit.*
- *In FY16, the City fleet increased the number of miles using plug in electric vehicles by 75%.*
- Hybrid units achieve over 50% better fuel economy in general than their gas only versions.
- *Diesel pickups and vans remain more fuel efficient than gasoline pickups and vans. Diesel units in the City fleet also utilize biodiesel blends of B5 and/or B20 and diesel particulate filters, further improving their emissions.*

DCAS will use these results to further inform our sustainability efforts as part of the NYC Clean Fleet initiative.

## 2) Use based fuel economy report for FY16

### Local Law Report

2015 (Revised)

Agency	Count of Units
DCAS	2,137
DEP	820
DHMH	239
DOCN	14
DOTR	882
DPAR	1,097
DSNY	3
<b>Total</b>	<b>5,192</b>

2016

Agency	Count of Units
DCAS	2,160
DEP	996
DHMH	253
DOCN	17
DOTR	1,192
DPAR	986
DSNY	15
<b>Total</b>	<b>5,619</b>

Subgroup	Count of Units	Total Miles	Total Gallons	MPG
Light	3,551	29,253,461	1,245,727	23.5
Medium	1,641	13,172,131	1,128,790	11.7
<b>Total</b>	<b>5,192</b>	<b>42,425,592</b>	<b>2,374,518</b>	<b>17.9</b>

Subgroup	Count of Units	Total Miles	Total Gallons	MPG
Light	3,896	28,492,983	1,462,145	19.5
Medium	1,723	10,917,464	1,180,881	9.2
<b>Total</b>	<b>5,619</b>	<b>39,410,447</b>	<b>2,643,027</b>	<b>14.9</b>

	Count of Units	Total Miles	Total Gallons	MPG
<b>Light</b>	<b>3,551</b>	<b>29,253,461</b>	<b>1,245,727</b>	<b>23.5</b>
Plug-in	49	333,395	8,363	39.9
Hybrid	2,619	19,997,200	688,250	29.1
Gas	883	8,922,866	549,115	16.2
<b>Medium</b>	<b>1,641</b>	<b>13,172,131</b>	<b>1,128,790</b>	<b>11.7</b>
Diesel/Bio	255	2,108,486	146,744	14.4
Gas	1,386	11,063,644	982,046	11.3
<b>Grand Total</b>	<b>5,192</b>	<b>42,425,592</b>	<b>2,374,518</b>	<b>17.9</b>

	Count of Units	Total Miles	Total Gallons	MPG
<b>Light</b>	<b>3,896</b>	<b>28,492,983</b>	<b>1,462,145</b>	<b>19.5</b>
Diesel/Bio	1	6,167	639	9.7
Plug-in	113	584,311	20,217	28.9
Hybrid	2,882	19,782,321	893,867	22.1
Gas	900	8,120,185	547,422	14.8
<b>Medium</b>	<b>1,723</b>	<b>10,917,464</b>	<b>1,180,881</b>	<b>9.2</b>
Diesel/Bio	303	1,986,476	199,301	10.0
Gas	1,420	8,930,988	981,580	9.1
<b>Grand Total</b>	<b>5,619</b>	<b>39,410,447</b>	<b>2,643,027</b>	<b>14.9</b>