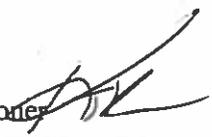


Stacey Cumberbatch  
Commissioner

To: Sally Renfro, Chief of Staff

From: Keith T. Kerman, Deputy Commissioner 

Keith Todd Kerman  
Chief Fleet Management  
Officer

Date: December 23, 2015

RE: Local Law 75 of 2013: Fuel Economy Report for Fleet units

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1 Centre Street  
17<sup>th</sup> Floor  
New York, NY 10007

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

212 386 0239 tel  
[nyc.gov/dcas](http://nyc.gov/dcas)

Thank you.

Cc: Suzanne Lynn, DCAS General 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.**

## **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 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 by AssetWorks; a new gas card contract for private retail fueling with WEX; and a new citywide fuel management system for in-house fueling with EJ Ward. Fleet Focus and WEX are fully implemented. The implementation of the in-house fuel management system will be completed by June 30, 2016. There are eight agencies that operate in-house fueling. The system has been installed at TLC, Parks, DOT, DOC, FDNY, NYPD and DEP, with partial (over 50%) completion at DSNY. Installations continue at DSNY. In addition, the system was not fully operational at the other agencies during the entirety of FY15.

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 FY15 reporting due to the reasons above. These issues should be resolved when we have had a full year of in-house fuel system reporting for the FY16 report. The current report includes hybrid plug in EV vehicles like the GM Volt (that use an internal combustion engine) but excludes dedicated EV vehicles, like the Nissan Leaf (which use no liquid fuels). The report also excludes compressed natural gas sedans, which are mostly used by Parks, which also do not use liquid fuel.

The report below shows some important results:

- 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.
- Plug-in electric vehicles and hybrid electric vehicles achieve far greater actual fuel economy than full gasoline vehicles. A plug-in hybrid light duty vehicle such as the Chevy Volt is achieving on average 140% better fuel economy than a regular gas light duty unit. Hybrid units achieve 79% better fuel economy in general than their gas only versions.

- Diesel pickups and vans are 27% 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.

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

## 2) Actual fuel economy report for FY15

### Local Law report

	Count of Units	Sum of Usage	Sum of Gallons	MPG
Light Duty	3,561	29,331,700	1,249,589	23.5
Medium Duty	1,641	13,172,131	1,128,790	11.7
<b>Grand Total</b>	<b>5,202</b>	<b>42,503,831</b>	<b>2,378,380</b>	<b>17.9</b>

	Count of Units	Sum of Usage	Sum of Gallons	MPG
<b>Light Duty Total</b>	<b>3,561</b>	<b>29,331,700</b>	<b>1,249,589</b>	<b>23.5</b>
Plug-in Hybrid	49	333,395	8,363	39.9
Hybrid	2,620	20,006,682	688,598	29.1
Gas	891	8,963,787	551,595	16.3
<b>Medium Duty Total</b>	<b>1,641</b>	<b>13,172,131</b>	<b>1,128,790</b>	<b>11.7</b>
Diesel / Biodiesel	255	2,108,486	146,744	14.4
Gas	1,386	11,063,644	982,046	11.3
<b>Grand Total</b>	<b>5,202</b>	<b>42,503,831</b>	<b>2,378,380</b>	<b>17.9</b>