

# VEHICLE FLEETS AND MAINTENANCE

New York City operates the largest municipal fleet in the United States, with over 29,000 units. Citywide, fleet operations are led by DCAS Fleet through the Deputy Commissioner for Fleet Management, who serves as Citywide Chief Fleet Officer, consistent with Executive Order 161. The Chief Fleet Officer works with the more than 50 City agencies that operate fleet units, especially the 12 major fleet agencies of NYPD, FDNY, DOC, DSNY, DPR, DOT, DEP, DOE, DOHMH, NYCEM, TLC and DCAS, known as the Fleet Federation.

DCAS Fleet leads initiatives in safety, sustainability, transparency, and emergency management, while also providing direct services in areas including repair, collisions management, subrogation, fuel, auction and parts. DCAS manages the City's central fleet management systems and FleetStat reporting.

As part of Vision Zero, New York City's fleet operations are undertaking a series of initiatives to improve safety and reporting relating to vehicle collisions. These initiatives currently include:

- 1) Training all authorized City fleet drivers in defensive driving. DCAS Fleet is leading this initiative for all staff except uniformed drivers at NYPD and FDNY, who receive separate driver training for their emergency response vehicles.
- 2) Assessing the safety outfitting of City vehicles and developing a Safe Fleet Transition Plan. As part of this initiative, the City has a policy to install side-guards on all fleet units. The City is also working with private fleets to assess and promote best industry practices. NYC Fleet recently barred the use of hands-free phone devices by City fleet operators.
- 3) Improving the tracking of vehicle collisions. DCAS Fleet introduced two new indicators in the Vehicle Fleets and Maintenance tables of the Mayor's Management Report (MMR) for 2016: the citywide number of injuries and the number of fatalities resulting from collisions involving City fleet vehicles. The number of Preventable Collisions was reported in the MMR for the second year and is expanded to be included in the agency Fleet sections of the PMMR.
- 4) Installing tracking devices called CANceivers in all City fleet vehicles. The CANceivers provide data to be used to monitor City fleet driving habits and create a Safety Index to help improve safe driving of City vehicles. The CANceivers are also part of a new fuel management program.

The City is also implementing a series of sustainability initiatives as part of the OneNYC and NYC Clean Fleet plans, including efforts to expand electric and hybrid vehicles; install additional diesel particulate filters; increase the use of fossil fuel alternatives; and introduce anti-idling and other technologies. Fleet has committed to reduce greenhouse gas emissions by 50 percent by 2025. DCAS Fleet has also worked to increase the transparency of citywide fleet operations. The vehicle out-of-service report and CRASH collisions reporting are available now online, as is Fleet's regular newsletter. The roll-out of fleet systems to better track, monitor and share fleet assets, parts and fuel, and driving behaviors, will increase our understanding of fleet operations; allow for better management oversight; and facilitate further service improvements.

In addition to this report, the Local Law 75 Annual Report contains information on use-based fuel economy for non-emergency light and medium fleets. The Local Law 38 Annual Report, prepared by the Department of Environmental Protection, contains information on City purchases of light and medium duty vehicles, the fuel economy of light duty vehicles purchased by the City, and the fuel consumption and carbon dioxide emission of the City fleet of light and medium duty vehicles.

## Additional Resources

### Fleet newsletter:

<http://www.nyc.gov/html/dcas/html/employees/fleet.shtml>

### Use-based fuel economy report (Local Law 75):

[http://www.nyc.gov/html/dcas/downloads/pdf/fleet/FY2016\\_Local\\_Law\\_75\\_Report\\_on\\_Use\\_Based\\_Fuel\\_Economy.pdf](http://www.nyc.gov/html/dcas/downloads/pdf/fleet/FY2016_Local_Law_75_Report_on_Use_Based_Fuel_Economy.pdf)

### Air pollution from City vehicles report (Local Law 38)

<http://www.nyc.gov/html/dep/html/air/index.shtml>

## VEHICLE FLEETS AND MAINTENANCE

INDICATORS	FY15 Annual Actual	FY16 Annual Actual	FY17 Annual Target	FY18 Annual Target	FY16 4-Month Actual	FY17 4-Month Actual
<b>CITYWIDE FLEET SIZE</b>	<b>27,844</b>	<b>29,374</b>	<b>29,500</b>	<b>29,300</b>	<b>28,471</b>	<b>29,628</b>
- Light Duty	11,734	12,605	12,600	12,500	11,646	12,740
- Medium Duty	4,757	4,825	4,900	4,825	4,859	4,847
- Heavy Duty	7,203	7,184	7,200	7,200	7,591	7,229
- Other Vehicles	4,150	4,760	4,800	4,775	4,375	4,812
Fleet vehicle in-service rate (%)	90%	91%	90%	91%	90%	92%
Daily fleet in-service targets achieved (%)	93%	89%	88%	90%	86%	99.5%
Agency vehicle in-service rates (%)						
- Department of Citywide Administrative Services	98%	98%	94%	94%	98%	99%
- Department of Environmental Protection	91%	92%	90%	90%	91%	93%
- Department of Health and Mental Hygiene	97%	98%	94%	94%	98%	98%
- Department of Transportation	91%	91%	85%	85%	90%	93%
- Department of Sanitation	83%	84%	78%	78%	82%	83%
- Department of Parks and Recreation	96%	95%	90%	90%	96%	95%
- Police Department	93%	94%	90%	90%	94%	94%
- Fire Department	81%	83%	80%	80%	83%	85%
- Department of Correction	93%	91%	92%	92%	90%	93%
- Department of Education	98%	98%	94%	94%	98%	99%
Purchased vehicles compliant with Local Law 38 (%)	98%	98%	95%	95%	99%	100%
Alternative fuel vehicles	15,491	16,681	17,000	17,250	16,522	16,903
Alternative fuel vehicles in City fleet (%)	57%	59%	62%	63%	60%	59%
Vehicle fuel used (gallons)	29,212,219	28,265,173	28,500,000	28,500,000	9,613,867	9,725,530
- Biodiesel fuel used (gallons)	15,595,726	15,281,204	15,500,000	15,500,000	4,775,833	5,009,883
Electric chargers installed	48	55	100	100	21	75
Vehicles purchased	3,131	4,352	3,000	3,000	1,586	2,700
Average age of fleet (months)	75	72	72	72	74	71
Collisions involving City vehicles <sup>1</sup>	5,726	6,344	*	*	1,876	1,995
Preventable collisions involving City vehicles <sup>2</sup>	2,873	2,815	*	*	1,007	869
Injuries resulting from collisions involving City vehicles	669	510	*	*	278	245
Fatalities resulting from collisions involving City vehicles	5	1	*	*	0	1
Revenue from recoverable affirmative claims	\$1,937,675	\$2,680,961	*	*	\$714,865	\$774,391

# VEHICLE FLEETS AND MAINTENANCE

INDICATORS	FY15 Annual Actual	FY16 Annual Actual	FY17 Annual Target	FY18 Annual Target	FY16 4-Month Actual	FY17 4-Month Actual
Employees trained in defensive driving	15,266	7,929	8,000	11,000	2,805	2,335
Fleet repair expenditures (\$000,000)	\$230.8	\$235.3	*	*	\$72.0	\$72.2
Fleet fuel expenditures (\$000,000)	\$68.7	\$46.0	*	*	\$17.4	\$16.8
Fleet acquisition expenditures (capital) (\$000,000)	\$206.8	\$215.3	\$220.0	\$240.0	\$21.1	\$178.0
Fleet acquisition expenditures (expense) (\$000,000)	\$69.0	\$109.4	\$70.0	\$60.0	\$63.1	\$57.3
Automotive repair personnel	1,316	1,356	1,350	1,350	1,316	1,366
Fleet support personnel	364	384	380	380	356	382

## AGENCY FLEET SIZES AND COLLISIONS<sup>1</sup>

<b>- Department of Citywide Administrative Services</b>						
- Fleet Size	<b>2,292</b>	<b>2,458</b>	*	*	<b>2,180</b>	<b>2,394</b>
- Light Duty	1,784	1,934	*	*	1,672	1,853
- Medium Duty	293	301	*	*	290	308
- Heavy Duty	75	80	*	*	77	80
- Other Vehicles	140	143	*	*	141	153
Collisions involving City vehicles <sup>1</sup>	449	400	*	*	132	131
Preventable collisions involving City vehicles <sup>2</sup>	215	135	*	*	65	49
<b>- Department of Environmental Protection</b>						
- Fleet Size	<b>1,999</b>	<b>2,176</b>	*	*	<b>2,115</b>	<b>2,155</b>
- Light Duty	704	834	*	*	752	809
- Medium Duty	489	471	*	*	489	474
- Heavy Duty	403	435	*	*	426	431
- Other Vehicles	403	436	*	*	448	441
Collisions involving City vehicles <sup>1</sup>	337	380	*	*	124	136
Preventable collisions involving City vehicles <sup>2</sup>	182	207	*	*	69	74
<b>- Department of Health and Mental Hygiene</b>						
- Fleet Size	<b>274</b>	<b>298</b>	*	*	<b>287</b>	<b>322</b>
- Light Duty	198	205	*	*	205	221
- Medium Duty	68	85	*	*	74	93
- Heavy Duty	6	6	*	*	6	6
- Other Vehicles	2	2	*	*	2	2
Collisions involving City vehicles <sup>1</sup>	29	23	*	*	14	6
Preventable collisions involving City vehicles <sup>2</sup>	12	16	*	*	7	0

# VEHICLE FLEETS AND MAINTENANCE

INDICATORS	FY15 Annual Actual	FY16 Annual Actual	FY17 Annual Target	FY18 Annual Target	FY16 4-Month Actual	FY17 4-Month Actual
<b>- Department of Transportation</b>						
- Fleet Size	2,766	3,065	*	*	2,936	3,096
- Light Duty	703	864	*	*	765	888
- Medium Duty	462	476	*	*	475	490
- Heavy Duty	892	844	*	*	919	830
- Other Vehicles	709	881	*	*	777	888
Collisions involving City vehicles <sup>1</sup>	344	370	*	*	147	159
Preventable collisions involving City vehicles <sup>2</sup>	249	282	*	*	116	107
<b>- Department of Sanitation</b>						
- Fleet Size	5,857	6,060	*	*	6,155	6,127
- Light Duty	983	996	*	*	976	980
- Medium Duty	307	317	*	*	314	322
- Heavy Duty	4,011	3,826	*	*	4,211	3,874
- Other Vehicles	556	921	*	*	654	951
Collisions involving City vehicles <sup>1</sup>	2,616	2,625	*	*	608	712
Preventable collisions involving City vehicles <sup>2</sup>	1,144	1,201	*	*	351	402
<b>- Department of Parks and Recreation</b>						
- Fleet Size	2,923	2,916	*	*	2,910	2,966
- Light Duty	564	614	*	*	592	649
- Medium Duty	903	858	*	*	888	850
- Heavy Duty	360	347	*	*	356	362
- Other Vehicles	1,096	1,097	*	*	1,074	1,105
Collisions involving City vehicles <sup>1</sup>	540	576	*	*	187	180
Preventable collisions involving City vehicles <sup>2</sup>	249	230	*	*	100	34
<b>- Police Department</b>						
- Fleet Size	8,882	9,240	*	*	8,826	9,436
- Light Duty	6,117	6,378	*	*	5,974	6,564
- Medium Duty	1,324	1,338	*	*	1,336	1,340
- Heavy Duty	355	418	*	*	406	434
- Other Vehicles	1,086	1,106	*	*	1,110	1,098
- Collisions in City vehicles <sup>3</sup>	3.2	3.9	*	*	4.7	3.7

# VEHICLE FLEETS AND MAINTENANCE

INDICATORS	FY15 Annual Actual	FY16 Annual Actual	FY17 Annual Target	FY18 Annual Target	FY16 4-Month Actual	FY17 4-Month Actual
<b>- Fire Department</b>						
- Fleet Size	2,097	2,289	*	*	2,287	2,270
- Light Duty	354	372	*	*	365	364
- Medium Duty	687	734	*	*	764	721
- Heavy Duty	909	1,020	*	*	1,000	1,023
- Other Vehicles	147	163	*	*	158	162
Collisions involving City vehicles <sup>1</sup>	1,286	1,520	*	*	619	626
Preventable collisions involving City vehicles <sup>2</sup>	726	681	*	*	277	186
<b>- Department of Correction</b>						
- Fleet Size	453	549	*	*	461	540
- Light Duty	149	218	*	*	160	224
- Medium Duty	123	136	*	*	122	140
- Heavy Duty	170	184	*	*	168	164
- Other Vehicles	11	11	*	*	11	12
Collisions involving City vehicles <sup>1</sup>	103	135	*	*	27	31
Preventable collisions involving City vehicles <sup>2</sup>	65	82	*	*	15	12
<b>- Department of Education</b>						
- Fleet Size	301	323	*	*	314	322
- Light Duty	178	190	*	*	185	188
- Medium Duty	101	109	*	*	107	109
- Heavy Duty	22	24	*	*	22	25
- Other Vehicles	0	0	*	*	0	0
Collisions involving City vehicles <sup>1</sup>	55	52	*	*	18	14
Preventable collisions involving City vehicles <sup>2</sup>	31	16	*	*	7	5

<sup>1</sup>Collision volumes in City vehicles do not include NYPD collisions.

<sup>2</sup>Preventable collision - A collision in which the driver did not take all reasonable avoidance actions.

<sup>3</sup>NYPD Collisions figure represents Collisions per 100,000 miles.

\*Indicator is not subject to targeting in the MMR.

"NA" means Not Available in this report.

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## DEFINITIONS

- Alternative fuel vehicles in City fleet (%): The percentage of City vehicles that are using alternative fuel.
- Alternative fuel vehicles: The total number of City vehicles that are using alternative fuel.
- Automotive repair personnel: The number of City personnel assigned to repair and maintain City fleet for the year.
- Average age of fleet (months): The average number of months from the date a vehicle is put in service to the end of the reporting period (i.e., the MMR/PMMR reporting period).
- City Managed Fleet: The total number of city funded and non-city funded vehicles in the city managed fleet.
- Citywide fleet size: The total number of vehicles in the city managed fleet and the subtotals by vehicle size/type.
- Collisions involving City vehicles: The total number of City-vehicle involved collision reports involving injury or property damage for the citywide fleet reported in the citywide collision reporting system (CRASH). New York State MV-104 reports are required whenever a collision occurs involving death, or other personal injury, or property damage over \$1,000. Collisions are tracked and reported regardless of whether or not the driver was at fault and whether or not the vehicle was in motion. Collisions involving City vehicles occur whenever a City vehicle strikes (or is struck by) a second vehicle, pedestrian, bicyclist or fixed object.
- Daily fleet in-service targets achieved (%): The percentage of days the target for vehicle in-service rate was met.
- Electric chargers installed: The number of chargers installed for the City hybrid-electric powered vehicles.
- Employees trained in defensive driving: The number of City employees trained in defensive driving centrally.
- Fatalities resulting from collisions involving City vehicles: The number of fatalities associated with collisions that included at least one City vehicle.
- Fleet acquisition expenditures (capital) (\$000,000): The amount of capital funds spent on City fleet during the year.
- Fleet acquisition expenditures (expense) (\$000,000): The amount of expense funds spent on City fleet during the year.
- Fleet fuel expenditures (\$000,000): The amount spent on fuel for City fleet during the year.
- Fleet repair expenditures (\$000,000): The amount spent on repair and maintenance of City fleet during the year.
- Fleet support personnel: The number of City personnel assigned to administer and support City fleet operations for the year.
- Injuries resulting from collisions involving City vehicles: The number of injuries associated with collisions that included at least one City vehicle.
- Percentage of alternative fuel vehicles in City Fleet: The percentage of vehicles in the city managed fleet that is using alternative fuel. This calculation does not include vehicles in the "Other" subgroup.
- Preventable collisions involving City vehicles - A collision in which the driver, by his/her own admission or in the judgment of an Agency Accident Review Committee, did not take all reasonable avoidance actions, including attention to road conditions and improper actions of other drivers. Preventability is not limited to the violation of traffic laws and is distinguished from chargeability as determined by the law.
- Purchased vehicles compliant with Local Law 38 (%): The percentage of light and medium-duty vehicles purchased for the City through DCAS during the period that are certified with the highest ratings defined by California Low-Emission Vehicle (LEV) II standards. The four highest ratings are zero emission vehicles (ZEV), transitional zero emission vehicles (TZEV), advanced technology partial zero emission vehicles (ATPZEV), and partial zero emission vehicles (PZEV). Pursuant to Local Law 38 of 2005, each light and medium-duty vehicle that the City purchases should have the best certified emission rating within its vehicle category while meeting the requirements for the City's intended use. According to the law, some exceptions apply based on cost and other limited exemptions, including for certain emergency vehicles.
- Revenue from recoverable affirmative claims: The amount of money recovered following collisions in City vehicles.
- Vehicle and Biodiesel fuel used (gallons): The volume of fuel used by City fleet in year (biodiesel is included in vehicle fuel).
- Vehicle in-service rate (%): The percentage of fleet in full service.
- Vehicles purchased: The number of City fleet vehicles acquired.

Source: DCAS Citywide Fleet Management.

# VEHICLE FLEETS AND MAINTENANCE

## LIST OF AGENCIES IN THE CITYWIDE FLEET

Department of Citywide Administrative Services*	New York City Fire Department
Department of Environmental Protection	New York City Police Department
Department of Correction	Department of Transportation
Department of Parks and Recreation	Department of Sanitation
Department of Health and Mental Hygiene	Department of Education

\*\*Department of Citywide Administrative Services" vehicles include those used by the following agencies:

Administration of Children's Services	Department of Youth and Community Development
Board of Elections	Financial Information Services Agency
Bronx Borough President	GrowNY (formerly known as "Council on the Environment")
Brooklyn Borough President	Human Resources Administration
Business Integrity Commission	Landmarks Preservation Commission
Campaign Finance Board	Law Department
City Commission on Human Rights	Manhattan Borough President
City Council	Mayor's Office
Civilian Complaint Review Board	New York City Emergency Management
Department for the Aging	NYC Economic Development Corporation
Department of Buildings	Office of Administrative Trials and Hearings
Department of City Planning	Office of Chief Medical Examiner
Department of Citywide Administrative Services	Office of Labor Relations
Department of Consumer Affairs	Office of Management and Budget
Department of Cultural Affairs	Office of Payroll Administration
Department of Design and Construction	Office of the City Clerk
Department of Finance	Office of the Comptroller
Department of Homeless Services	Office of the Public Advocate
Department of Housing Preservation and Development	Queens Borough President
Department of Information Technology and Telecommunications	Sheriff's Office
Department of Investigation	Sports Commission
Department of Probation	Staten Island Borough President
Department of Records and Information Services	Tax Commission
Department of Small Business Services	Taxi and Limousine Commission

