

VEHICLE FLEETS AND MAINTENANCE

New York City operates the largest municipal fleet in the United States, with more than 30,000 units. Citywide fleet operations are led by DCAS Fleet through the Deputy Commissioner for Fleet Management, who serves as the City's Chief Fleet Officer, consistent with Executive Order 161. The Chief Fleet Officer works with the more than 50 City agencies and offices 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, the 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 the initiative to train all City drivers. Uniformed drivers at NYPD, FDNY and DOC receive separate driver training for their emergency response vehicles. In 2020, DCAS established a first online version of the training in response to COVID-19 requirements.
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. DCAS is also implementing a safety camera project for City trucks. The City is also working with private fleets to assess and promote best industry practices. DCAS Fleet has barred the use of hands-free phone devices by City fleet operators.
3. Improving the tracking of vehicle collisions. DCAS Fleet introduced new indicators to this Vehicle Fleets and Maintenance table of the Mayor's Management Report (MMR) to refine reporting on fleet safety. DCAS now provides collision rates by vehicle miles travelled (VMT), which is the standard fleet industry reporting metric. DCAS also reports on fatalities and injuries by VMT and reports on whether these incidents were deemed preventable or not through agency evaluations.
4. Installing tracking devices in City fleet vehicles. Tracking devices provide data to be used to monitor driving habits and enable DCAS to create a Safety Index to help improve safe driving of City vehicles. DCAS uses multiple telematics providers as part of this initiative and completed an upgrade of this technology for 12,000 units in Fiscal 2019. DCAS manages this data through a Fleet Office of Real Time Tracking (FORT).

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 and to establish an all-electric on-road fleet by 2040.

DCAS achieved the goal of 2,000 on-road electric vehicles (EV) six years earlier than the plan originally outlined in the NYC Clean Fleet initiative. The revised goal is at least 4,000 EV units by 2025. DCAS has now put in place over 1,000 EV charging ports including the nation's largest portable solar carport project and a large increase in fast charging.

DCAS Fleet has also worked to increase the transparency of citywide fleet operations. The daily vehicle readiness report, the Fleet weekly newsletter, and a wide variety of other public reporting is available online. The roll-out of fleet systems to better track, monitor and share fleet assets, parts and fuel, and driving behaviors, will increase 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. The Local Law 41 report provides information on citywide Car and Fleet Share efforts.

ADDITIONAL RESOURCES

- Fleet newsletter:
<https://www1.nyc.gov/site/dcas/agencies/fleet-news.page>
- Use-based fuel economy report (Local Law 75):
<https://www1.nyc.gov/assets/dcas/downloads/pdf/fleet/Local-Law-75-Report-on-Use-Based-Fuel-Economy-1-29-2019.pdf>
- Air pollution from City vehicles report (Local Law 38):
<https://www1.nyc.gov/site/dep/environment/transportation-emissions.page>
- Local Law 41, Car Share report:
<https://www1.nyc.gov/assets/dcas/downloads/pdf/fleet/Local-Law-41-Report-on-Car-Share-2019.pdf>

VEHICLE FLEETS AND MAINTENANCE

INDICATORS	Actual		Target	
	FY19	FY20	FY20	FY21
Total Fleet Size	30,755	30,502	30,500	30,250
- Light Duty	13,153	12,703	12,900	12,600
- Medium Duty	4,627	4,628	4,850	4,600
- Heavy Duty	7,568	7,546	7,450	7,500
- Other Vehicles	5,407	5,625	5,300	5,550
Vehicle in-service rate (%)	91%	91%	92%	92%
Daily fleet in-service targets achieved (%)	96%	98%	98%	98%
Purchased vehicles compliant with Local Law 38 (%)	100%	100%	99%	99%
Alternative fuel vehicles	18,942	19,100	19,500	20,000
Alternative fuel vehicles in City fleet (%)	63%	65%	65%	68%
Electric vehicles	2,662	2,747	3,000	3,250
- On-road electric vehicles	2,113	2,174	2,400	2,650
- Off-road electric vehicles	549	573	600	600
Vehicle fuel used (gallons)	28,905,781	26,756,419	28,500,000	28,000,000
- Biodiesel fuel used (gallons)	14,596,581	13,305,898	16,000,000	15,500,000
- B100/RD100 equivalent used (gallons)	2,680,349	1,677,291	3,000,000	6,000,000
Fleet miles per gallon (FMPG)	6.5	7.0	6.7	7.0
Electric chargers installed	116	61	100	100
Vehicles purchased	2,847	1,925	3,000	2,500
Average age of fleet (months)	65.4	68.5	65	65
Collisions in City vehicles ¹	6,061	4,752	*	*
Collisions per 100,000 miles involving City vehicles citywide	5.3	4.9	*	*
Preventable collisions per 100,000 miles involving City vehicles citywide	2.9	2.6	*	*
Injuries involving collisions in City vehicles citywide per 100,000 miles	0.7	0.6	*	*
Injuries involving preventable collisions per 100,000 miles	0.3	0.3	*	*
Preventable collisions in City vehicles	3,357	2,508	*	*
Injuries involving collisions in City vehicles	827	560	*	*
Fatalities involving collisions in non-emergency City vehicles	4	4	*	*
Revenue from recoverable affirmative claims	\$2,865,603	\$2,459,284	*	*
Employees trained in defensive driving	10,307	5,447	10,000	9,000
Authorized City drivers trained in defensive driving (%)	82%	87%	90%	92%
Fleet repair expenditures (\$000,000)	\$274.2	\$271.1	*	*
Fleet fuel expenditures (\$000,000)	\$66.7	\$50.5	*	*
Fleet acquisition expenditures (capital) (\$000,000)	\$175.9	\$253.4	\$225.0	\$200.0
Fleet acquisition expenditures (expense) (\$000,000)	\$72.6	\$32.8	\$75.0	\$70.0
Automotive repair personnel	1,434	1,408	1,450	1,450
Fleet support personnel	358	344	360	350

1 The number of collisions in City vehicles do not include NYPD collisions. "NA" Not Available *None

THE FOLLOWING IS A DETAILED FLEET BREAKDOWN FOR AGENCIES WITH THE LARGEST CITY-MANAGED FLEETS:

DEPARTMENT OF CITYWIDE ADMINISTRATIVE SERVICES	Actual		Target	
	FY19	FY20	FY20	FY21
INDICATORS				
Vehicles	2,380	2,454	*	*
- Light Duty	1,842	1,891	*	*
- Medium Duty	313	309	*	*
- Heavy Duty	71	79	*	*
- Other Vehicles	154	175	*	*
Vehicle in-service rate (%)	98%	99%	*	*
Fleet miles per gallon (FMPG)	20.9	20.2	*	*
Collisions per 100,000 miles involving City vehicles	2.9	3.0	*	*
Preventable collisions per 100,000 miles involving City vehicles	1.4	1.0	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.4	0.3	*	*
Injuries involving preventable collisions per 100,000 miles	0.2	0.1	*	*
Authorized City drivers trained in defensive driving (%)	75%	84%	*	*
Revenue from recoverable affirmative claims	\$415,876	\$1,624	*	*
"NA" Not Available *None				

DEPARTMENT OF ENVIRONMENTAL PROTECTION	Actual		Target	
	FY19	FY20	FY20	FY21
INDICATORS				
Vehicles	2,297	2,301	*	*
- Light Duty	920	895	*	*
- Medium Duty	457	474	*	*
- Heavy Duty	418	426	*	*
- Other Vehicles	502	506	*	*
Vehicle in-service rate (%)	92%	91%	*	*
Fleet miles per gallon (FMPG)	13.1	12.5	*	*
Collisions per 100,000 miles involving City vehicles	2.8	1.8	*	*
Preventable collisions per 100,000 miles involving City vehicles	1.7	1.1	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.3	0.1	*	*
Injuries involving preventable collisions per 100,000 miles	0.1	0.0	*	*
Authorized City drivers trained in defensive driving (%)	76%	81%	*	*
Revenue from recoverable affirmative claims	\$1,537	\$2,292	*	*
"NA" Not Available *None				

DEPARTMENT OF HEALTH AND MENTAL HYGIENE INDICATORS	Actual		Target	
	FY19	FY20	FY20	FY21
Vehicles	322	305	*	*
- Light Duty	234	227	*	*
- Medium Duty	78	68	*	*
- Heavy Duty	6	6	*	*
- Other Vehicles	4	4	*	*
Vehicle in-service rate (%)	99%	100%	*	*
Fleet miles per gallon (FMPG)	28.5	26.6	*	*
Collisions per 100,000 miles involving City vehicles	1.6	2.3	*	*
Preventable collisions per 100,000 miles involving City vehicles	0.6	1.1	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.1	0.4	*	*
Injuries involving preventable collisions per 100,000 miles	0.0	0.2	*	*
Authorized City drivers trained in defensive driving (%)	85%	85%	*	*
Revenue from recoverable affirmative claims	\$19,692	\$26,941	*	*
"NA" Not Available *None				

DEPARTMENT OF TRANSPORTATION INDICATORS	Actual		Target	
	FY19	FY20	FY20	FY21
Vehicles	3,430	3,488	*	*
- Light Duty	956	960	*	*
- Medium Duty	572	564	*	*
- Heavy Duty	824	892	*	*
- Other Vehicles	1,078	1,072	*	*
Vehicle in-service rate (%)	92%	100%	*	*
Fleet miles per gallon (FMPG)	7.2	7.1	*	*
Collisions per 100,000 miles involving City vehicles	2.7	3.2	*	*
Preventable collisions per 100,000 miles involving City vehicles	1.1	1.7	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.5	0.4	*	*
Injuries involving preventable collisions per 100,000 miles	0.1	0.1	*	*
Authorized City drivers trained in defensive driving (%)	87%	95%	*	*
Revenue from recoverable affirmative claims	\$73,848	\$58,658	*	*
"NA" Not Available *None				

DEPARTMENT OF SANITATION	Actual		Target	
	FY19	FY20	FY20	FY21
INDICATORS				
Vehicles	6,121	5,988	*	*
- Light Duty	939	915	*	*
- Medium Duty	299	312	*	*
- Heavy Duty	3,846	3,767	*	*
- Other Vehicles	1,037	994	*	*
Vehicle in-service rate (%)	82%	96%	*	*
Fleet miles per gallon (FMPG)	2.9	2.8	*	*
Collisions per 100,000 miles involving City vehicles	7.6	6.7	*	*
Preventable collisions per 100,000 miles involving City vehicles	4.5	3.9	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.7	0.6	*	*
Injuries involving preventable collisions per 100,000 miles	0.4	0.4	*	*
Authorized City drivers trained in defensive driving (%)	92%	97%	*	*
Revenue from recoverable affirmative claims	\$282,536	\$275,769	*	*
"NA" Not Available *None				

DEPARTMENT OF PARKS AND RECREATION	Actual		Target	
	FY19	FY20	FY20	FY21
INDICATORS				
Vehicles	2,840	2,777	*	*
- Light Duty	548	524	*	*
- Medium Duty	788	759	*	*
- Heavy Duty	361	370	*	*
- Other Vehicles	1,143	1,124	*	*
Vehicle in-service rate (%)	95%	100%	*	*
Fleet miles per gallon (FMPG)	7.8	5.7	*	*
Collisions per 100,000 miles involving City vehicles	4.7	5.5	*	*
Preventable collisions per 100,000 miles involving City vehicles	3.3	3.3	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.5	0.2	*	*
Injuries involving preventable collisions per 100,000 miles	0.4	0.2	*	*
Authorized City drivers trained in defensive driving (%)	99%	98%	*	*
Revenue from recoverable affirmative claims	\$98,197	\$37,526	*	*
"NA" Not Available *None				

POLICE DEPARTMENT INDICATORS	Actual		Target	
	FY19	FY20	FY20	FY21
Vehicles	9,967	5,988	*	*
- Light Duty	6,903	915	*	*
- Medium Duty	1,413	312	*	*
- Heavy Duty	439	3,767	*	*
- Other Vehicles	1,212	994	*	*
Vehicle in-service rate (%)	93%	96%	*	*
Fleet miles per gallon (FMPG)	8.3	2.8	*	*
Collisions per 100,000 miles involving City vehicles	4.4	NA	*	*
Revenue from recoverable affirmative claims	\$1,744,697	\$275,769	*	*
"NA" Not Available *None				

FIRE DEPARTMENT INDICATORS	Actual		Target	
	FY19	FY20	FY20	FY21
Vehicles	2,426	2,341	*	*
- Light Duty	382	318	*	*
- Medium Duty	464	464	*	*
- Heavy Duty	1,401	1,368	*	*
- Other Vehicles	179	191	*	*
Vehicle in-service rate (%)	82%	96%	*	*
Fleet miles per gallon (FMPG)	4.5	4.8	*	*
Collisions per 100,000 miles involving City vehicles	10.1		*	*
Preventable collisions per 100,000 miles involving City vehicles	5.3		*	*
Injuries involving collisions in City vehicles per 100,000 miles	2.0		*	*
Injuries involving preventable collisions per 100,000 miles	0.8		*	*
Revenue from recoverable affirmative claims	\$146,973	\$485,154	*	*
"NA" Not Available *None				

DEPARTMENT OF CORRECTION INDICATORS	Actual		Target	
	FY19	FY20	FY20	FY21
Vehicles	675	730	*	*
- Light Duty	253	280	*	*
- Medium Duty	141	139	*	*
- Heavy Duty	183	178	*	*
- Other Vehicles	98	133	*	*
Vehicle in-service rate (%)	94%	100%	*	*

Fleet miles per gallon (FMPG)	8.5	7.3	*	*
Collisions per 100,000 miles involving City vehicles	2.5	3.3	*	*
Preventable collisions per 100,000 miles involving City vehicles	1.6	1.1	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.6	0.9	*	*
Injuries involving preventable collisions per 100,000 miles	0.2	0.2	*	*
Authorized City drivers trained in defensive driving (%)	24%	26%	*	*
Revenue from recoverable affirmative claims	\$42,470	\$23,032	*	*
"NA" Not Available *None				

DEPARTMENT OF EDUCATION INDICATORS	Actual		Target	
	FY19	FY20	FY20	FY21
Vehicles	297	294	*	*
- Light Duty	176	159	*	*
- Medium Duty	102	110	*	*
- Heavy Duty	19	24	*	*
- Other Vehicles	0	1	*	*
Vehicle in-service rate (%)	99%	100%	*	*
Revenue from recoverable affirmative claims	\$39,777	\$35,960	*	*
"NA" Not Available *None				

FLEET 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).

Citywide fleet size: The total number of vehicles in the city managed fleet and the subtotals by vehicle size/type.

Collisions in City vehicles: The number of collisions in the year as reported by City agencies.

Collisions per 100,000 miles involving City vehicles citywide: The number of City-vehicle involved collision reports per 100,000 miles involving injury or property damage in the citywide fleet reported in the citywide collision reporting system (CRASH).

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 City electric powered vehicles.

Electric vehicles: The number of electric and plug-in vehicles in the citywide fleet. The fiscal year figure is the number of electric vehicles on the last day of the reporting period.

Employees trained in defensive driving: The number of City employees trained in defensive driving centrally.

Fatalities involving collisions in nonemergency City vehicles: The number of fatalities to City employees and all other parties involved in collisions that included one or more nonemergency City fleet vehicle (and no City emergency response 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 fuel for City fleet during the year.

Fleet fuel expenditures (\$000,000): The amount spent on fuel for City fleet during the year.

Fleet miles per gallon (FMPG): This indicator shows a total miles per gallon average for all vehicles combined. Agency fuel use may involve off-road and specialized equipment usage that impacts this calculation. It is not a vehicle-specific MPG indicator, but offers a general view of fuel efficiency for the City fleet.

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 involving collisions in City vehicles: The number of injuries to City employees and all other parties involved in collisions that included at least one City fleet vehicle.

Injuries involving collisions in City vehicles per 100,000 miles: The number of injuries associated with collisions per 100,000 miles that included at least one City vehicle.

Injuries involving preventable collisions per 100,000 miles: The number of injuries in preventable collisions reported per 100,000 miles in the citywide fleet.

Off-road electric vehicles: The number of off-road electric and plug-in vehicles in the citywide fleet. The fiscal year figure is the number of electric vehicles on the last day of the reporting period. This includes off-road solar electric units.

On-road electric vehicles: The number of on-road electric and plug-in vehicles in the citywide fleet. The fiscal year figure is the number of electric vehicles on the last day of the reporting period.

Preventable collisions in 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.

Preventable collisions per 100,000 miles involving City vehicles citywide: The number of preventable collisions reports per 100,000 miles in the citywide fleet.

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.

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

GrowNYC (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

Department of Probation

Staten Island Borough President

Department of Records and Information Services

Tax Commission

Department of Small Business Services

Taxi and Limousine Commission

