

VEHICLE FLEETS AND MAINTENANCE

New York City operates the largest municipal fleet in the United States, with nearly 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, cost efficiency, 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. Over 8,000 staff enrolled in the first year.
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. Over 62,000 safety improvements have been implemented since FY17.
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. As of FY21, over 19,500 fleet units use some type of cleaner alternative including electric, hybrid, and biodiesel. This is the largest alternative fuel using fleet in the US, public or private.

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. In FY21, DCAS opened 8 of its new fast chargers to general public access.

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 2020, DCAS Fleet established a Compliance Unit to better ensure proper use of City vehicles by employees citywide.

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	
	FY20	FY21	FY21	FY22
Total Fleet Size	30,502	29,718	30,250	29,900
- On Road Fleet Total	24,877	24,581	24,700	24,650
- Light Duty	12,703	12,343	12,600	12,450
- Medium Duty	4,628	4,631	4,600	4,550
- Heavy Duty	7,546	7,607	7,500	7,650
- Off Road/Other Equipment	5,625	5,137	5,550	5,250
Vehicle in-service rate (%)	91%	92%	92%	92%
Daily fleet in-service targets achieved (%)	98%	96%	98%	98%
Purchased vehicles compliant with Local Law 38 (%)	100%	100%	99%	99%
Alternative fuel vehicles	19,100	19,532	19,500	20,000
Alternative fuel vehicles in City fleet (%)	65%	67%	68%	70%
Electric vehicles	3,015	3,139	2,900	3,400
- On-road electric vehicles	2,174	2,344	2,350	2,550
- Off-road electric vehicles	841	795	550	850
Vehicle fuel used (gallons)	26,754,819	25,796,373	28,000,000	25,500,000
- Biodiesel fuel used (gallons)	13,305,898	13,792,271	15,500,000	14,000,000
- B100/RD100 equivalent used (gallons)	1,677,291	1,664,477	6,000,000	3,000,000
Fleet miles per gallon (FMPG)	7.0	7.1	7.0	6.5
Electric chargers installed	61	91	75	25
Cumulative electric vehicle charger ports	949	1061	*	*
Vehicles purchased	1,925	665	500	750
Average age of fleet (months)	68.5	74.2	69	75
Collisions in City vehicles ¹	4,752	4,650	*	*
Collisions per 100,000 miles involving City vehicles citywide	4.9	4.5	*	*
Preventable collisions per 100,000 miles involving City vehicles citywide	2.6	2.7	*	*
Injuries involving collisions in City vehicles citywide per 100,000 miles	0.6	0.4	*	*
Injuries involving preventable collisions per 100,000 miles	0.3	0.2	*	*
Preventable collisions in City vehicles	2,508	2,418	*	*
Injuries involving collisions in City vehicles	560	444	*	*
Fatalities involving collisions in non-emergency City vehicles	4	1	*	*
Revenue from recoverable affirmative claims	\$2,459,284	\$2,842,076	*	*
Employees trained in defensive driving	5,447	6,671	5,000	7,000
Authorized City drivers trained in defensive driving (%)	87%	88%	92%	95%
Fleet repair expenditures (\$000,000)	\$271.1	\$272.2	*	*
Fleet fuel expenditures (\$000,000)	\$51.5	\$50.7	*	*
Fleet acquisition expenditures (capital) (\$000,000)	\$253.4	\$129.1	\$75.0	\$100.0
Fleet acquisition expenditures (expense) (\$000,000)	\$32.8	\$19.5	\$20.0	\$15.0
Automotive repair personnel	1,408	1,347	1,410	1,380
Fleet support personnel	344	317	340	330

¹The 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 INDICATORS	Actual		Target	
	FY20	FY21	FY21	FY22
Vehicles	2,454	2,494	*	*
- On Road Total	2,279	2,273	*	*
- Light Duty	1,891	1,867	*	*
- Medium Duty	309	326	*	*
- Heavy Duty	79	80	*	*
- Off Road/Other Equipment	175	221	*	*
Vehicle in-service rate (%)	99%	98%	*	*
Fleet miles per gallon (FMPG)	20.2	26.3	*	*
Collisions per 100,000 miles involving City vehicles	3.0	2.6	*	*
Preventable collisions per 100,000 miles involving City vehicles	1.0	0.8	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.3	0.2	*	*
Injuries involving preventable collisions per 100,000 miles	0.1	0.0	*	*
Authorized City drivers trained in defensive driving (%)	84%	83%	*	*
Revenue from recoverable affirmative claims	\$374,838	\$379,255	*	*
"NA" Not Available *None				

DEPARTMENT OF ENVIRONMENTAL PROTECTION INDICATORS	Actual		Target	
	FY20	FY21	FY21	FY22
Vehicles	2,301	2,117	*	*
- On Road Total	1,795	1,758	*	*
- Light Duty	895	857	*	*
- Medium Duty	474	476	*	*
- Heavy Duty	426	425	*	*
- Off Road/Other Equipment	506	359	*	*
Vehicle in-service rate (%)	91%	90%	*	*
Fleet miles per gallon (FMPG)	12.5	14.3	*	*
Collisions per 100,000 miles involving City vehicles	1.8	1.0	*	*
Preventable collisions per 100,000 miles involving City vehicles	1.1	0.5	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.1	0.1	*	*
Injuries involving preventable collisions per 100,000 miles	0.0	0.0	*	*
Authorized City drivers trained in defensive driving (%)	81%	88%	*	*
Revenue from recoverable affirmative claims	\$2,292	\$30,083	*	*
"NA" Not Available *None				

DEPARTMENT OF HEALTH AND MENTAL HYGIENE INDICATORS	Actual		Target	
	FY20	FY21	FY21	FY22
Vehicles	305	280	*	*
- On Road Total	301	278	*	*
- Light Duty	227	207	*	*
- Medium Duty	68	65	*	*
- Heavy Duty	6	6	*	*
- Off Road/Other Equipment	4	2	*	*
Vehicle in-service rate (%)	99%	98%	*	*
Fleet miles per gallon (FMPG)	26.6	25.9	*	*
Collisions per 100,000 miles involving City vehicles	2.3	2.2	*	*
Preventable collisions per 100,000 miles involving City vehicles	1.1	0.4	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.4	0.3	*	*
Injuries involving preventable collisions per 100,000 miles	0.2	0.0	*	*
Authorized City drivers trained in defensive driving (%)	85%	81%	*	*
Revenue from recoverable affirmative claims	\$26,941	\$33,351	*	*
"NA" Not Available *None				

DEPARTMENT OF TRANSPORTATION INDICATORS	Actual		Target	
	FY20	FY21	FY21	FY22
Vehicles	3,488	3,444	*	*
- On Road Total	2,416	2,435	*	*
- Light Duty	960	974	*	*
- Medium Duty	564	546	*	*
- Heavy Duty	892	915	*	*
- Off Road/Other Equipment	1,072	1,009	*	*
Vehicle in-service rate (%)	93%	91%	*	*
Fleet miles per gallon (FMPG)	5.7	6.8	*	*
Collisions per 100,000 miles involving City vehicles	3.2	2.7	*	*
Preventable collisions per 100,000 miles involving City vehicles	1.7	2.6	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.4	0.1	*	*
Injuries involving preventable collisions per 100,000 miles	0.1	0.1	*	*
Authorized City drivers trained in defensive driving (%)	95%	96%	*	*
Revenue from recoverable affirmative claims	\$58,658	\$19,307	*	*
"NA" Not Available *None				

DEPARTMENT OF SANITATION	Actual		Target	
	FY20	FY21	FY21	FY22
INDICATORS				
Vehicles	5,988	5,946	*	*
- On Road Total	4,994	5,049	*	*
- Light Duty	915	913	*	*
- Medium Duty	312	319	*	*
- Heavy Duty	3,767	3,817	*	*
- Off Road/Other Equipment	994	897	*	*
Vehicle in-service rate (%)	84%	86%	*	*
Fleet miles per gallon (FMPG)	2.8	2.9	*	*
Collisions per 100,000 miles involving City vehicles	6.7	6.8	*	*
Preventable collisions per 100,000 miles involving City vehicles	3.9	3.7	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.6	0.5	*	*
Injuries involving preventable collisions per 100,000 miles	0.4	0.2	*	*
Authorized City drivers trained in defensive driving (%)	97%	96%	*	*
Revenue from recoverable affirmative claims	\$275,769	\$272,486	*	*
"NA" Not Available *None				

DEPARTMENT OF PARKS AND RECREATION	Actual		Target	
	FY20	FY21	FY21	FY22
INDICATORS				
Vehicles	2,777	2,834	*	*
- On Road Total	1,653	1,733	*	*
- Light Duty	524	524	*	*
- Medium Duty	759	805	*	*
- Heavy Duty	370	404	*	*
- Off Road/Other Equipment	1,124	1,101	*	*
Vehicle in-service rate (%)	96%	95%	*	*
Fleet miles per gallon (FMPG)	7.1	8.3	*	*
Collisions per 100,000 miles involving City vehicles	5.5	4.9	*	*
Preventable collisions per 100,000 miles involving City vehicles	3.3	3.1	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.2	0.5	*	*
Injuries involving preventable collisions per 100,000 miles	0.2	0.3	*	*
Authorized City drivers trained in defensive driving (%)	98%	98%	*	*
Revenue from recoverable affirmative claims	\$37,526	\$48,581	*	*
"NA" Not Available *None				

POLICE DEPARTMENT INDICATORS	Actual		Target	
	FY20	FY21	FY21	FY22
Vehicles	9,824	9,369	*	*
- On Road Total	8,399	8,092	*	*
- Light Duty	6,534	6,276	*	*
- Medium Duty	1,429	1,373	*	*
- Heavy Duty	436	443	*	*
- Off Road/Other Equipment	1,425	1,277	*	*
Vehicle in-service rate (%)	94%	93%	*	*
Fleet miles per gallon (FMPG)	10.4	11.0	*	*
Collisions per 100,000 miles involving City vehicles	NA	NA	*	*
Revenue from recoverable affirmative claims	\$1,139,114	\$1,574,598	*	*
"NA" Not Available *None				

FIRE DEPARTMENT INDICATORS	Actual		Target	
	FY20	FY21	FY21	FY22
Vehicles	2,341	2,249	*	*
- On Road Total	2,150	2,099	*	*
- Light Duty	318	312	*	*
- Medium Duty	464	464	*	*
- Heavy Duty	1,368	1,323	*	*
- Off Road/Other Equipment	191	150	*	*
Vehicle in-service rate (%)	83%	86%	*	*
Fleet miles per gallon (FMPG)	4.8	4.9	*	*
Collisions per 100,000 miles involving City vehicles	7.8	7.7	*	*
Preventable collisions per 100,000 miles involving City vehicles	4.0	3.4	*	*
Injuries involving collisions in City vehicles per 100,000 miles	1.3	1.0	*	*
Injuries involving preventable collisions per 100,000 miles	0.5	0.3	*	*
Revenue from recoverable affirmative claims	\$485,154	\$480,142	*	*
"NA" Not Available *None				

DEPARTMENT OF CORRECTION	Actual		Target	
INDICATORS	FY20	FY21	FY21	FY22
Vehicles	730	691	*	*
- On Road Total	597	571	*	*
- Light Duty	280	254	*	*
- Medium Duty	139	147	*	*
- Heavy Duty	178	170	*	*
- Off Road/Other Equipment	133	120	*	*
Vehicle in-service rate (%)	95%	94%	*	*
Fleet miles per gallon (FMPG)	7.3	7.8	*	*
Collisions per 100,000 miles involving City vehicles	3.3	2.7	*	*
Preventable collisions per 100,000 miles involving City vehicles	1.1	0.1	*	*
Injuries involving collisions in City vehicles per 100,000 miles	0.9	0.6	*	*
Injuries involving preventable collisions per 100,000 miles	0.2	0.0	*	*
Authorized City drivers trained in defensive driving (%)	26%	28%	*	*
Revenue from recoverable affirmative claims	\$23,032	\$41,497	*	*
"NA" Not Available *None				

DEPARTMENT OF EDUCATION	Actual		Target	
INDICATORS	FY20	FY21	FY21	FY22
Vehicles	294	294	*	*
- On Road Total	293	293	*	*
- Light Duty	159	159	*	*
- Medium Duty	110	110	*	*
- Heavy Duty	24	24	*	*
- Off Road/Other Equipment	1	1	*	*
Vehicle in-service rate (%)	100%	99%	*	*
Revenue from recoverable affirmative claims	\$35,960	\$12,166	*	*
"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).

B100/RD100 equivalent used (gallons):

The volume of diesel used in a year equivalent to 100% biodiesel (B100) and 100% renewable diesel (RD100). For example, 100 gallons of B20 (20% biodiesel) would equal 20 gallons of B100 equivalent.

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).

Cumulative electric vehicle charger ports:

The total number of ports available for all electric vehicle chargers. Many of the City's EV chargers are dual port and can support charging two vehicles at the same time.

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.

Heavy duty:

On road vehicles over 14,000 GVW.

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.

Light duty:

On road vehicles 8,500 GVW or less.

Medium duty:

On road vehicles over 8,500 but not more than 14,000 GVW.

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.

Off road/Other equipment:

Non road vehicles and specialized equipment used for construction, agriculture, recreation, etc. such as front end loaders, forklifts, generators, and tractors.

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.

On road fleet total:

The total number of on-road vehicles in the city managed fleet and the subtotals by vehicle size.

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

*"DEPARTMENT OF CITYWIDE ADMINISTRATIVE SERVICES" VEHICLES INCLUDE THOSE USED BY THE FOLLOWING AGENCIES:

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