

NYC Fleet

Vision Zero

Research on the Road

Eric Richardson, NYC Deputy Chief Fleet Officer

June 9, 2021

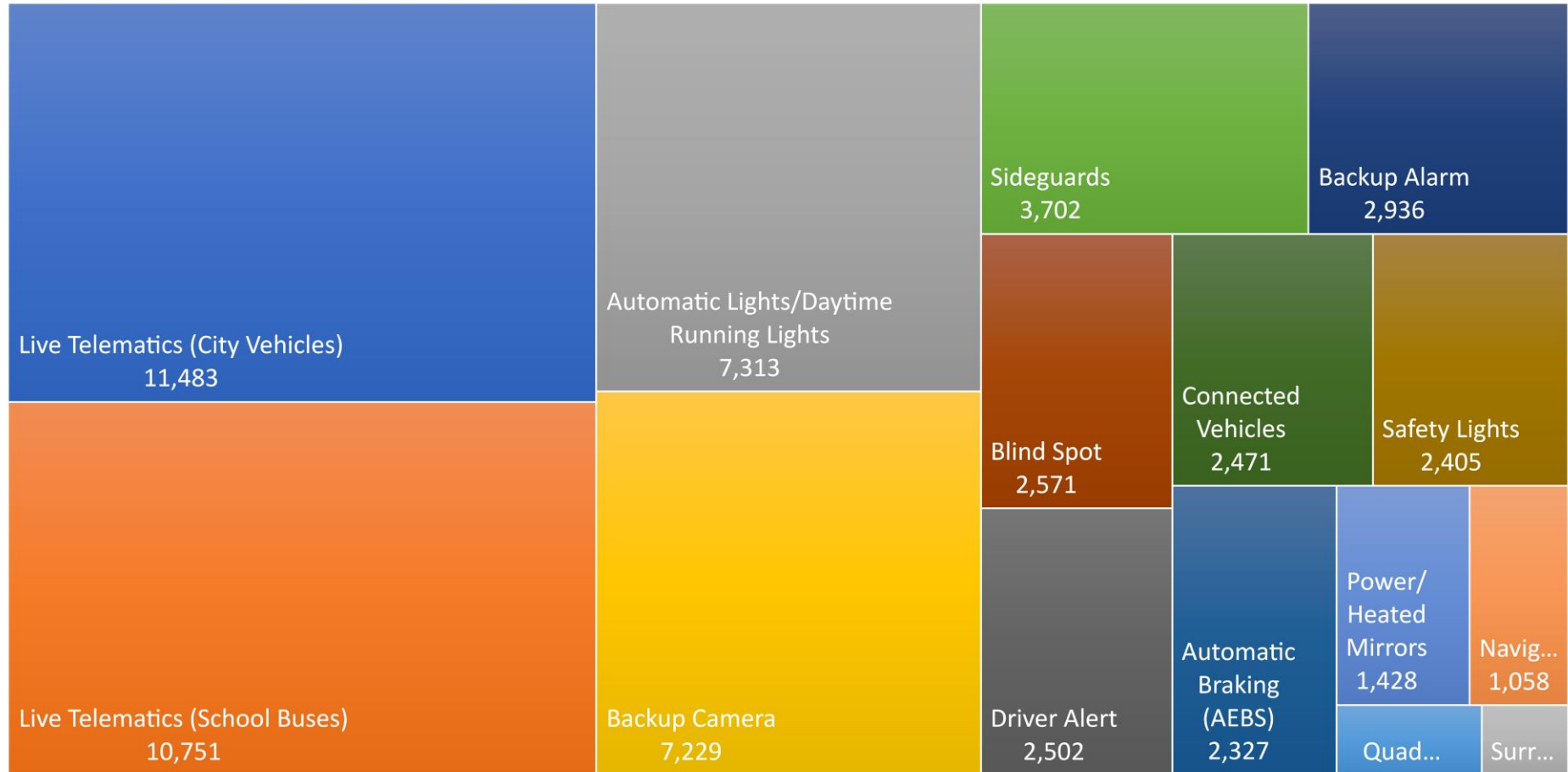
Safe Fleet Transition Plan

Tier 1	Tier 2	Tier 3
	Best Practice Technologies	Exploratory Technologies
High vision truck cabs where competitively available and operationally feasible * [§]	Pedestrian AEB for medium- and heavy-duty vehicles where available (Class 3-8) * [§]	Alcohol touch ignition interlock [§]
Additional mirrors/lenses where applicable including Fresnel lenses *	Blind spot monitors	Cell phone physical or app-based lock box/ docking station ignition interlock [§]
Appropriate technologies and techniques to see behind vehicle, such as but not exclusive to backup cameras	Enhanced Seat Belt Reminder systems (ESBRs)	Seatbelt assurance ignition interlock systems [§]
Forward Collision Warning (FCW) and Pedestrian Collision Warning (PCW) for Class 1 and 2	Navigation systems	Surround cameras *
Automatic Emergency Braking (AEB) for light-duty vehicles (Class 1-2) with Advanced Pedestrian Monitoring as preferred option where available [§]	Power mirrors and heated mirrors *	Turning alarms *
Automatic headlights where available	Speed governors * [§]	Universal design
Enhanced truck rear underride guards *	Connected vehicle, or vehicle-to-vehicle (V2V), communication technology	Rear Automatic Emergency Braking (AEB) for light-duty vehicles (Class 1-2) [§]
Safety lights for work trucks, such as but not exclusive to side-visible turn signals and roadwork lights (amber)	Broadband backup alarms †	Intelligent Speed Assistance (ISA) [§]
Side underride guards * consistent with Local Law	Rear Automatic Emergency Braking (AEB) for heavy-duty vehicles with air brakes * [§]	Automatic Emergency Braking (AEB) for medium- and heavy-duty vehicles (Class 3-8) * [§]
Self-adjusting volume backup alarms †	Forward Collision Warning (FCW) and Pedestrian Collision Warning (PCW) for Class 3 and above	
Telematics to enable utilization, collision, speed, and safety reporting, among other uses	External Cameras and Recording	
Warning decals *	Training where feasible in appropriate use of technologies	

Note: Entries in bold are potential updates for 2018 (see explanations below)

* = Only apply to vehicles with gross vehicle weight rating of 10,000 lbs. or greater.

Outfitting Vehicles for Safety



Real Time Tracking for City Fleet, School Busses



THE CITY OF NEW YORK
OFFICE OF THE MAYOR
NEW YORK, N.Y. 10007

EXECUTIVE ORDER No. 41

March 28, 2019

CITYWIDE FLEET SUSTAINABILITY, RIGHT-SIZING, AND EFFICIENCY THROUGH NYC CLEAN FLEET PLAN

WHEREAS, the City operates a large fleet ("NYC Fleet") of vehicles and motorized equipment that is critical to the daily provision of municipal services; and

WHEREAS, the Department of Citywide Administrative Services (DCAS) through NYC Fleet manages an extensive network of fueling and electric vehicle charging infrastructure to power these fleets including light, medium, heavy duty and off-road units; and

WHEREAS, in accordance with New York City Charter section 827 and Executive Order No. 161 of 2012, DCAS procures all fleet units and fuel for City agencies and manages initiatives to implement cleaner alternative fuels, reduce vehicle emissions, and increase fleet efficiency; and

WHEREAS, the NYC Clean Fleet Plan was released in December 2015, and calls for NYC to implement the most sustainable fleet in the country, including operating at least 2,000 on-road electric vehicles by 2025 and reducing greenhouse gas emissions (GHG) by 50% by 2025; and

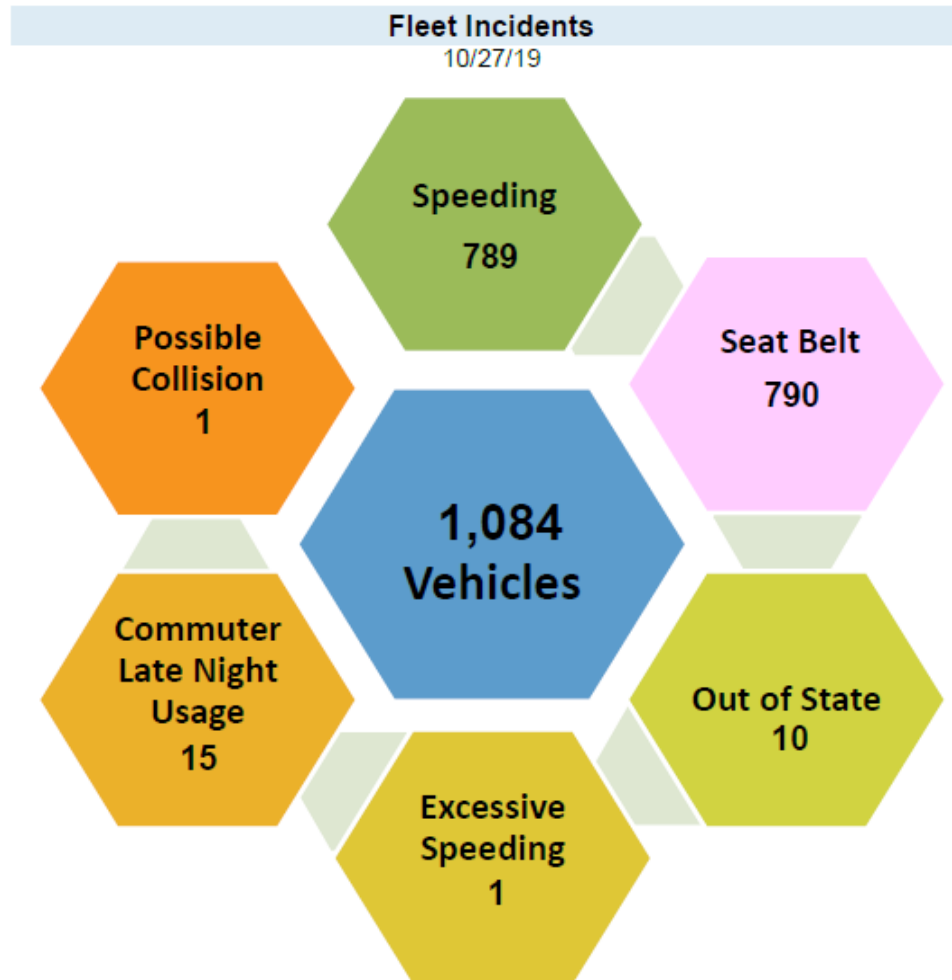
NOW, THEREFORE, by the power vested in me as the Mayor of the City of New York, it is hereby ordered:

Section 1. NYC Clean Fleet Plan. DCAS, working with the Office of Management and Budget (OMB) and the Mayor's Office of Sustainability (MOS), will continue to implement the NYC Clean Fleet Plan. All agencies operating fleet units will support implementation of this phase of the plan and take all required efforts to achieve the environmental and efficiency performance goals within the NYC Clean Fleet Plan. DCAS and MOS will issue a report and update to the plan every two years, with the first such report and update issued by January 1, 2020. This report will include an update on implementation of this Executive Order.

§ 2. Fleet Size. By June 30, 2019, DCAS will implement telematics, mapping, and analytics for all City on-road fleet units, including long-term rentals. The New York City Police Department will implement a similar initiative. Working with OMB, DCAS will set fleet daily usage targets for all City fleet agencies and major operational sub-divisions of the fleet, to ensure that the City achieves an optimal fleet size based on documented usage patterns. At least 1,000 existing on-road units will be reduced by June 30, 2021. In addition, DCAS and OMB will establish an 80 percent general usage standard for the



Fleet Safety Reporting



Agency Safety Scorecards

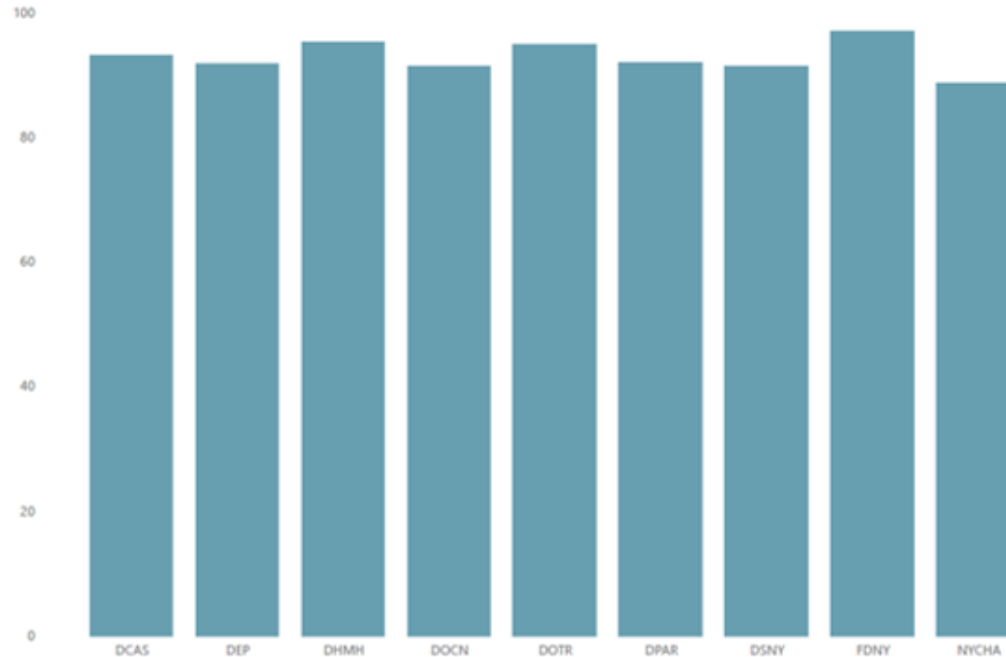
Geotab Safety Scorecard

December 9, 2019 - December 13, 2019

92.54

Citywide Average Score

Agency	Average Score
DCAS	93.16
DEP	91.68
DHMH	95.27
DOCN	91.43
DOTR	94.81
DPAR	91.88
DSNY	91.41
FDNY	97.00
NYCHA	88.71
Total	92.54



Classification	
Low Risk	90
Mild Risk	70
Medium Risk	50
High Risk	0

Weighted Categories	
Hard Acceleration	10%
Harsh Braking	10%
Harsh Cornering	10%
Seat-Belt	20%
Speeding	20%
Excessive Speeding	30%
100%	

Citywide Safety Scorecards

NYC Fleet: Safety Alerts Per Mile 2019-2020

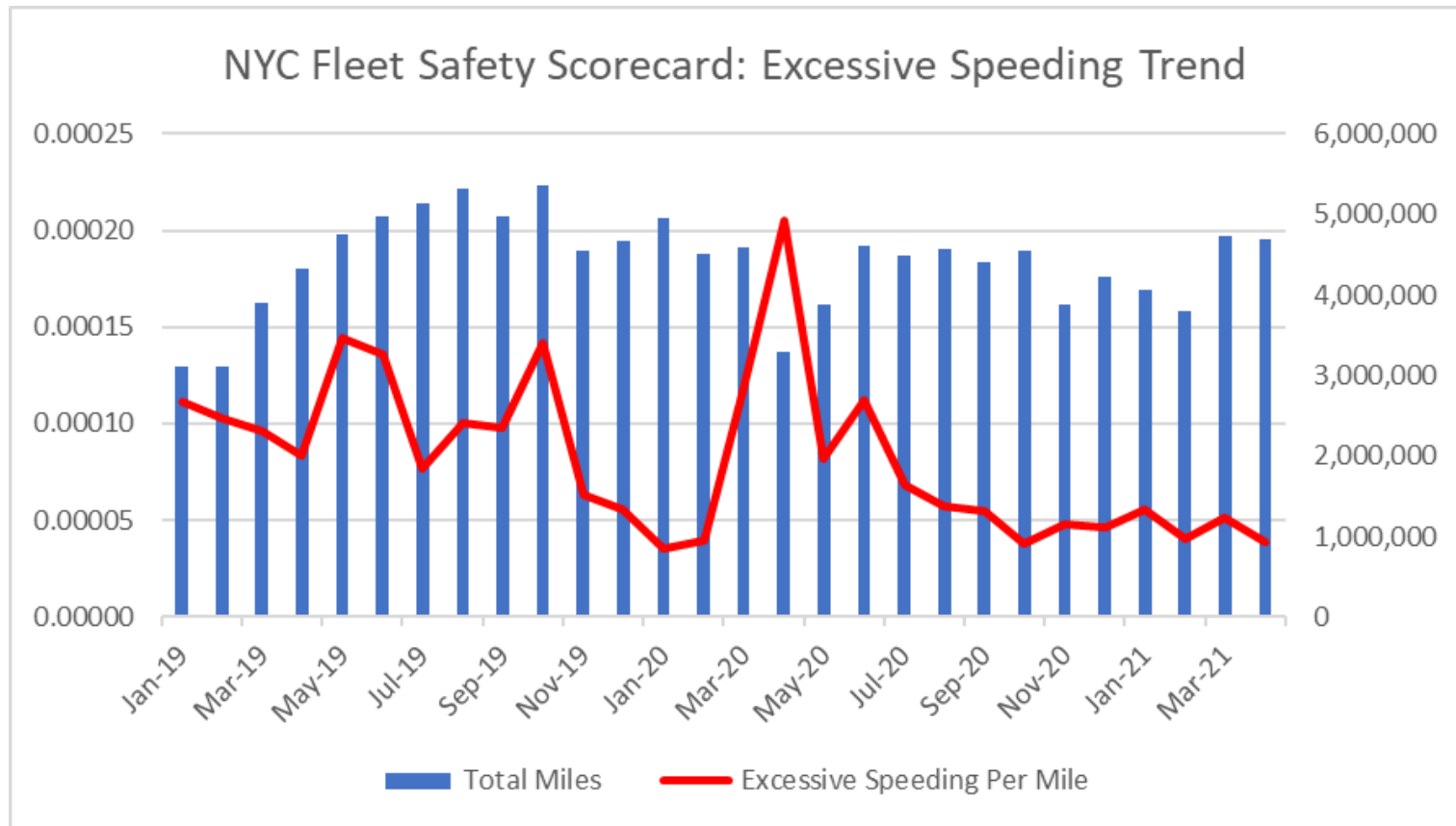


Citywide Safety Scorecards

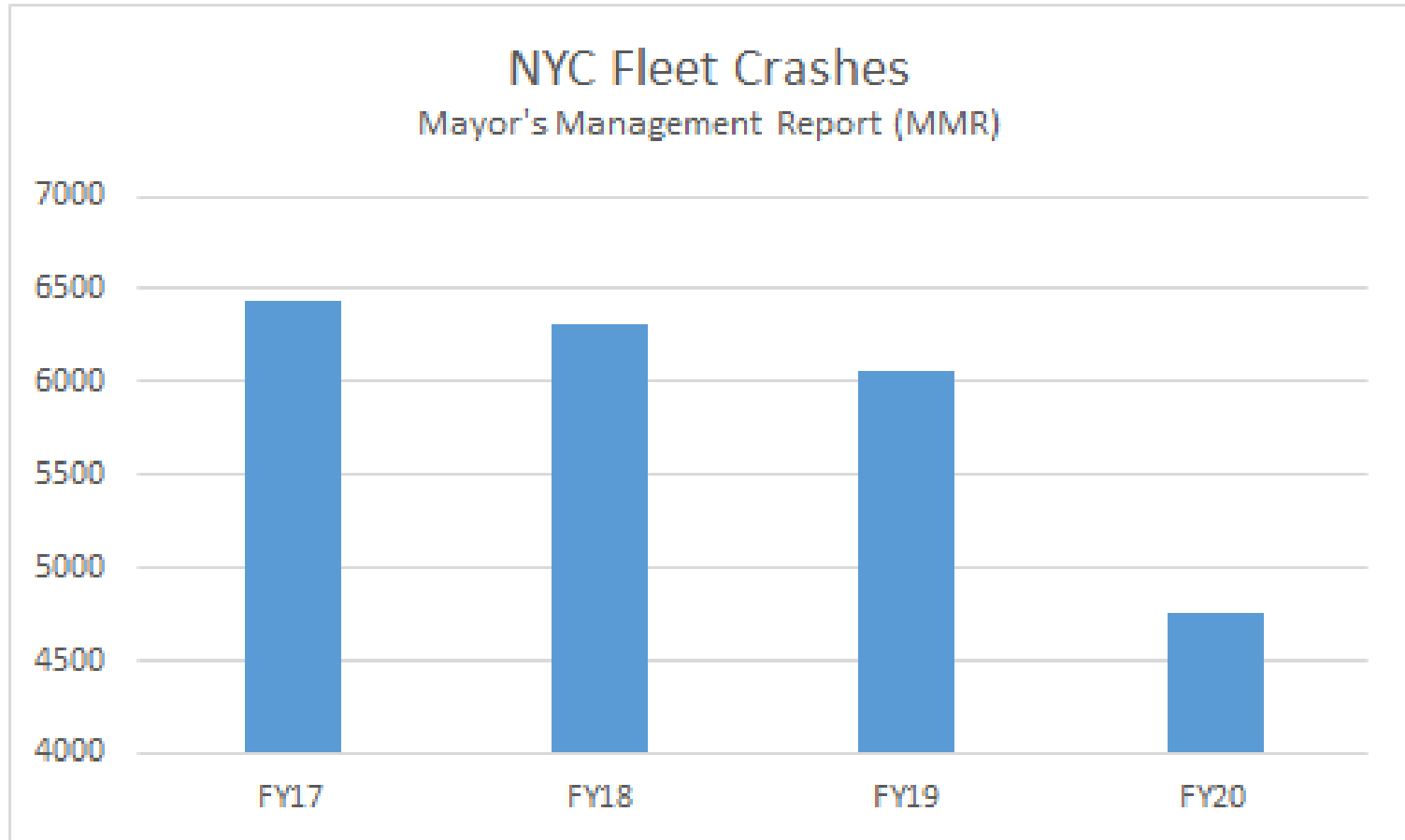
Speeding Alerts Summary

Month	Total Miles	Speeding Per Mile	Excessive Speeding Per Mile
Jan-19	3,098,956	0.0270	0.00011
Feb-19	3,103,993	0.0253	0.00011
Mar-19	3,898,143	0.0250	0.00010
Apr-19	4,323,973	0.0258	0.00009
May-19	4,750,313	0.0257	0.00015
Jun-19	4,964,173	0.0262	0.00014
Jul-19	5,134,667	0.0271	0.00008
Aug-19	5,313,007	0.0266	0.00010
Sep-19	4,975,621	0.0255	0.00010
Oct-19	5,358,076	0.0211	0.00014
Nov-19	4,555,128	0.0220	0.00007
Dec-19	4,673,955	0.0186	0.00006
Jan-20	4,958,162	0.0224	0.00004
Feb-20	4,513,608	0.0218	0.00004
Mar-20	4,592,998	0.0297	0.00012
Apr-20	3,300,065	0.0353	0.00021
May-20	3,876,708	0.0277	0.00008
Jun-20	4,611,291	0.0241	0.00011
Jul-20	4,477,516	0.0228	0.00007
Aug-20	4,575,516	0.0199	0.00006
Sep-20	4,412,316	0.0200	0.00006
Oct-20	4,545,960	0.0180	0.00004
Nov-20	3,875,791	0.0200	0.00005
Dec-20	4,228,167	0.0191	0.00005
Jan-21	4,051,478	0.0242	0.00006
Feb-21	3,800,749	0.0188	0.00004
Mar-21	4,736,073	0.0238	0.00005
Apr-21	4,686,455	0.0236	0.00004

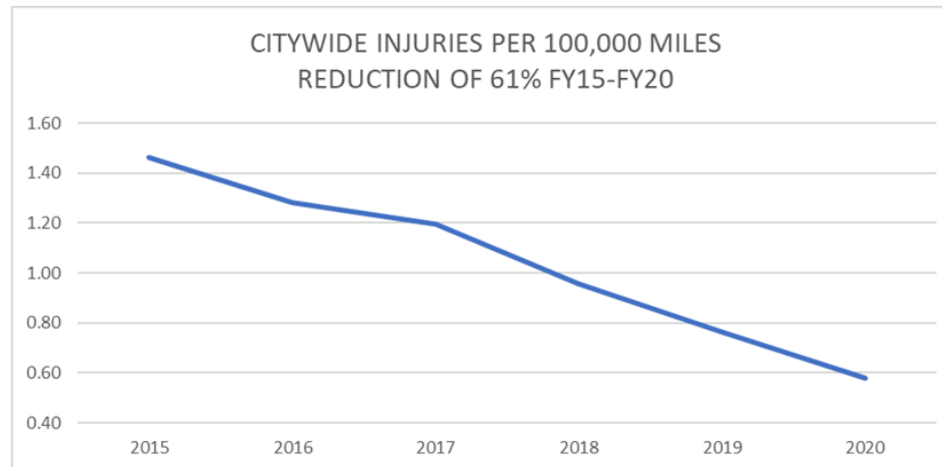
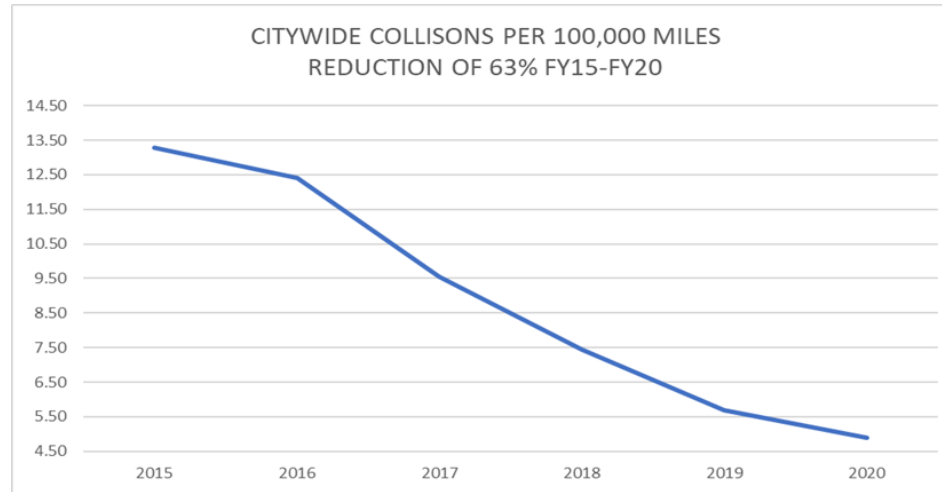
Improvements in Fleet Safety



Improvements in Fleet Safety



Improvements in Fleet Safety



DCAS

THANK YOU