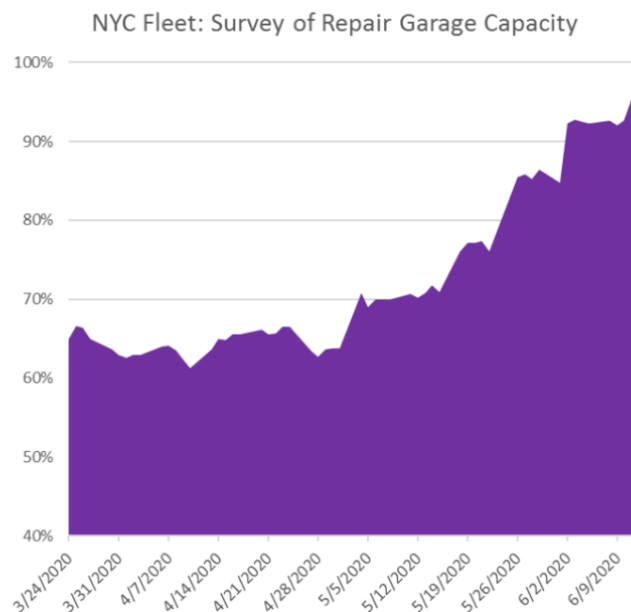


Using Fleet Data to Monitor Emergency Trends

By: Keith Kerman

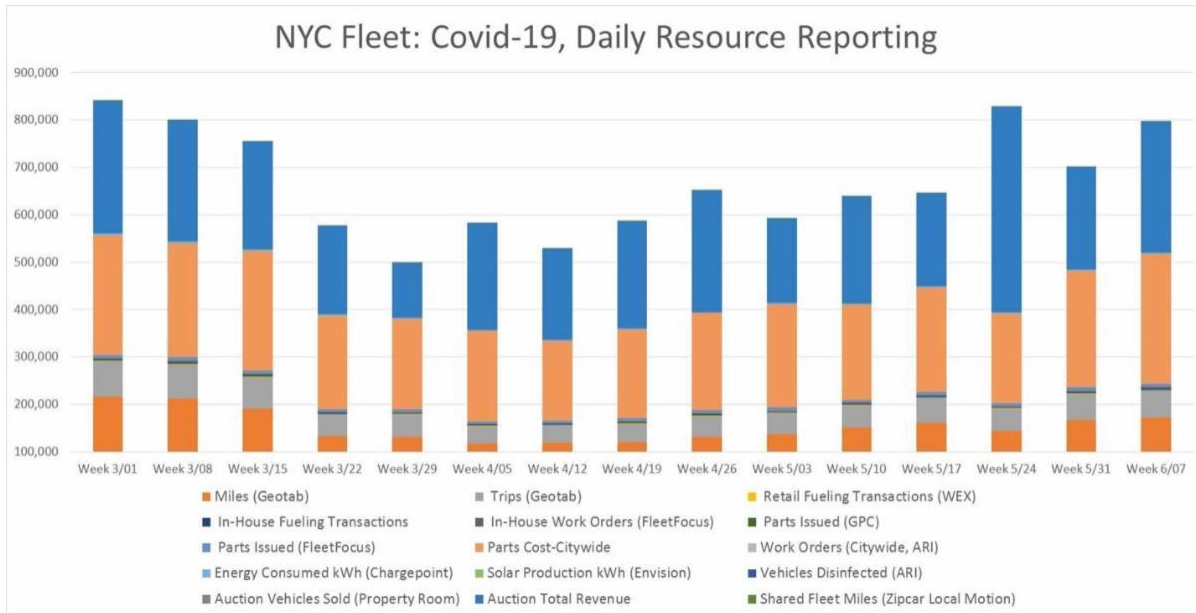
Fleet is a data-rich and administratively intensive operation. NYC Fleet operates eleven distinct data systems tied to various aspects of service operations including fleet location tracking, vehicle repair, fueling, parts supply, car and fleet share, electric charging, auction, and even solar energy production through our carports. We use additional systems for procurement, acquisitions, and administrative functions.

As we know, fleet is a critical resource for most of the City's emergency, maintenance, and operational functions. In a major emergency like COVID-19, this fleet reporting can provide important insight into the operational, environmental, and fiscal impacts taking place.



Beginning March 1, DCAS developed a daily report to monitor trends in each of the areas outlined below. We also added surveys of garage operations to hear directly from our fleet managers.

Fleet has been deemed an essential service through COVID-19 and our in-house and contracted services have kept functioning throughout the emergency. Of course, garage operations still struggled with the impact of sick employees and disrupted schedules. During the peak period, a 30 percent reduction in repair capacity was met with a 30 percent reduction in fleet use, as many non-essential operations were suspended and staff tele-worked for the first time. As we reported in a previous newsletter, the impacts were not even. FDNY ambulance shop workload tripled and remains at this high level.



The daily reporting provided us detailed information about trends in usage, costs, and productivity as the City endured the peak period and now as we head further into restoration.

We also experienced some unexpected findings. Solar production from our 88 carports decreased substantially during the peak. With all the other challenges the City is tackling, the sun was still shining so we weren't sure why energy production would go down. We then realized why. Our carports store solar energy in fixed electric batteries. If there are less staff to charge vehicles, the batteries fill up and our storage maxes out.

In the last decade, NYC Fleet has made a major investment in performance and data management and we continue to look for ways to improve our analytics through our Fleet Office of Real-Time Tracking (FORT). Fleet data can serve as a critical tool for managing dynamic emergency situations and helping fleet and City operations respond quickly to changing needs.

Many thanks to Matthew Aronberg, our FORT Director, for leading this effort.

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[NYC Fleet Newsletter 308, June 15, 2020:](#) FDNY and DEP Complete Truck Side-Guard Safety Installs

[NYC Fleet Newsletter 307, June 10, 2020:](#) Inter-Agency Fleet Staff Support Medical Examiner (OCME)

[NYC Fleet Newsletter 306, May 27, 2020:](#) Hybrids Work Even Better in Reality Than in Theory

[NYC Fleet Newsletter 305, May 18, 2020:](#) NYU Capstone Team Studies City Parts Operations

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