



FedFleet 2021: Federal Automotive Statistical Tool - Federal Vehicle Fleet Data Collection

June 2021

Changing the World's Energy Future

Ron Stewart



DISCLAIMER

This information was prepared as an account of work sponsored by an agency of the U.S. Government. Neither the U.S. Government nor any agency thereof, nor any of their employees, makes any warranty, expressed or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness, of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. References herein to any specific commercial product, process, or service by trade name, trade mark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the U.S. Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the U.S. Government or any agency thereof.

FedFleet 2021: Federal Automotive Statistical Tool - Federal Vehicle Fleet Data Collection

Ron Stewart

June 2021

**Idaho National Laboratory
Idaho Falls, Idaho 83415**

<http://www.inl.gov>

**Prepared for the
U.S. Department of Energy
Under DOE Idaho Operations Office
Contract DE-AC07-05ID14517, DE-AC07-05ID14517**



U.S. General Services Administration

FedFleet



Federal Automotive Statistical Tool (FAST)

Federal Vehicle Fleet Data Collection

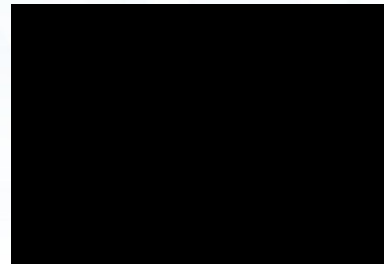
June
2021

INL/MIS-21-62705

Federal Automotive Statistical Tool (FAST)

Federal Vehicle Fleet Data Collection

Ron Stewart
FAST Team



The Federal Vehicle Fleet



FAST: Federal Vehicle Fleet Data Collection

- Collaborative project funded / managed by
 - GSA Office of Government-wide Policy
 - DOE Federal Energy Management Program
- Collects federal vehicle fleet information
 - Vehicles & operational data (costs, miles, fuel)
 - Fleet budget & planning data
 - Fueling infrastructure / EVSE data
- Primary federal fleet information source
 - Fleet data FY 2000 to present

A screenshot of the FAST Login page in a web browser. The browser's address bar shows "https://fastweb.int.gov". The page title is "Federal Automotive Statistical Tool". Below the title is a navigation bar with "Log In", "Sandbox", and "Help" links. The main content area is titled "Federal Automotive Statistical Tool: Log In". It contains a login form with fields for "Login ID" and "Password", and a "Log In" button. Below the form are three informational boxes. The first box is titled "Assistance With User Accounts" and provides information about account access. The second box is titled "Vehicle-level Data (VLD) Reporting in FAST" and provides information about the reporting requirements. The third box is titled "Federal Fleet Report" and provides information about the report's content and contact information.

FAST Login

https://fastweb.int.gov

Federal Automotive Statistical Tool

Log In Sandbox Help

Federal Automotive Statistical Tool: Log In

Login ID

Password

Assistance With User Accounts
If you need an account to access FAST or need help with an existing account in FAST, contact one of your organization's designated [points of contact](#) for assistance.
[Help: Agency Points of Contact](#)

Vehicle-level Data (VLD) Reporting in FAST
Beginning with the FY 2017 reporting cycle, Federal agencies are required to report information about their motor vehicle fleet in a more granular format detailing each individual vehicle and its cost, miles, and fuel consumption. Reference documents related to this fundamental change in fleet data reporting were originally published in February 2016. Current versions of those references and other supporting resources are available for download at
[Help: Vehicle-level Data Reporting in FAST](#)

Federal Fleet Report
The Federal Fleet Report produced by the U.S. General Services Administration is the comprehensive source of information on annual inventory, cost, use, and fuel consumption of the fleet of motor vehicles operated by the executive branch of the Federal Government. This report is generated by the Federal Automotive Statistical Tool (FAST), an Internet-based application that collects fleet-related data reported by the Federal agencies.
Contact: vehicle.policy@gsa.gov
[2019 Federal Fleet Report](#)

FY 2020 Federal Fleet Dataset



49 organizations



704K vehicles



1.1M fuel records

Federal Fleet: Recent Trends – FY 2020



Inventory

658K

+1.9%



Miles

4.16B

-7.1%



Fuel

372M GGE

-3.8%



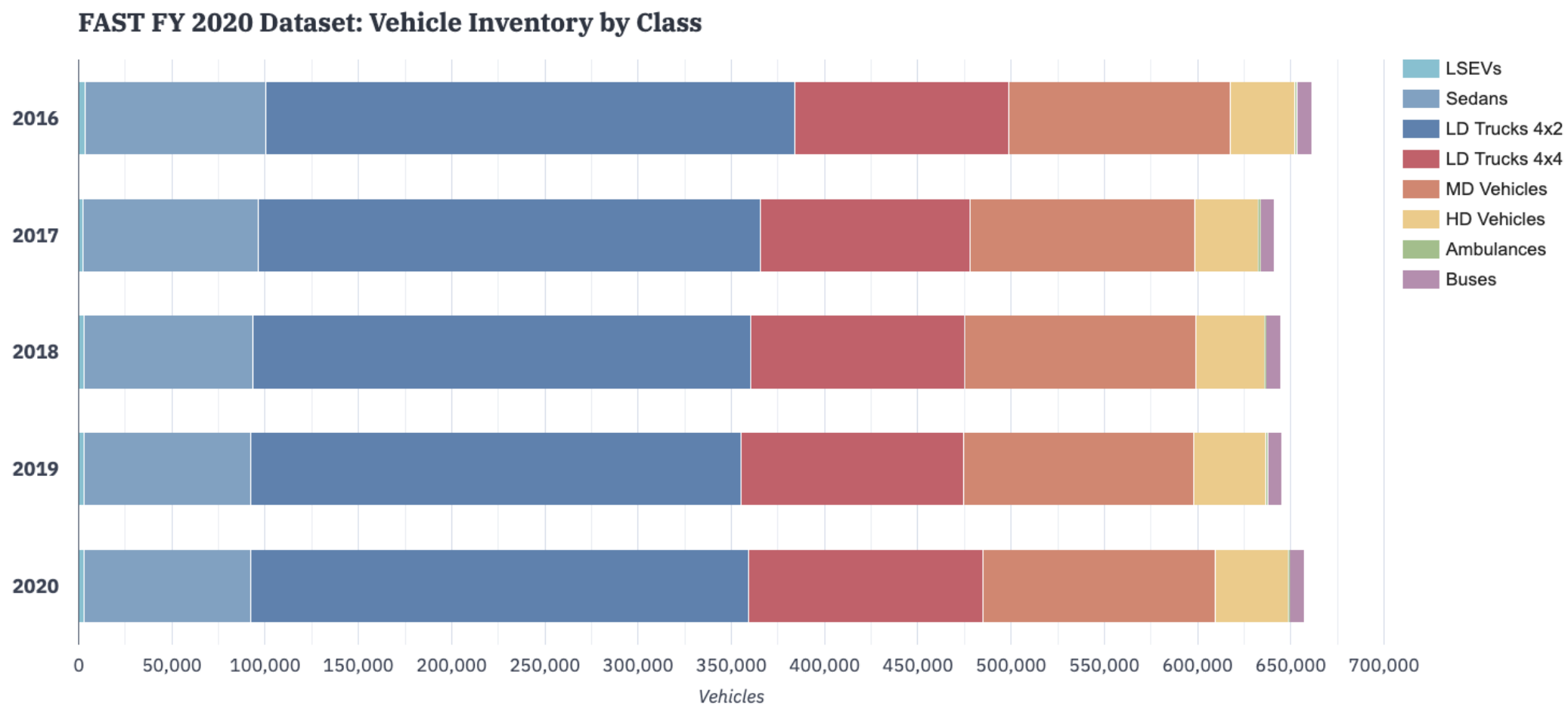
Cost

\$4.22B

-3.4%

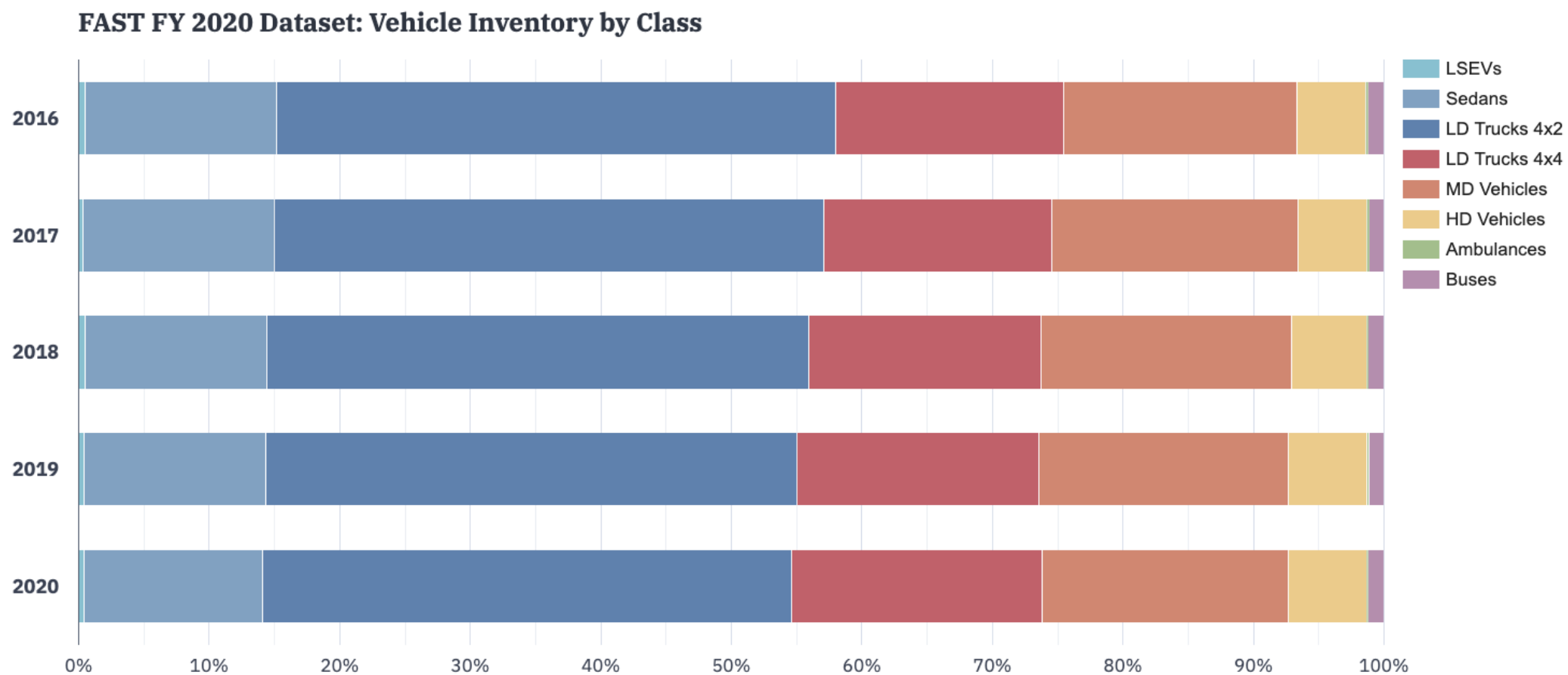


Federal Fleet: Recent Trends - Inventory



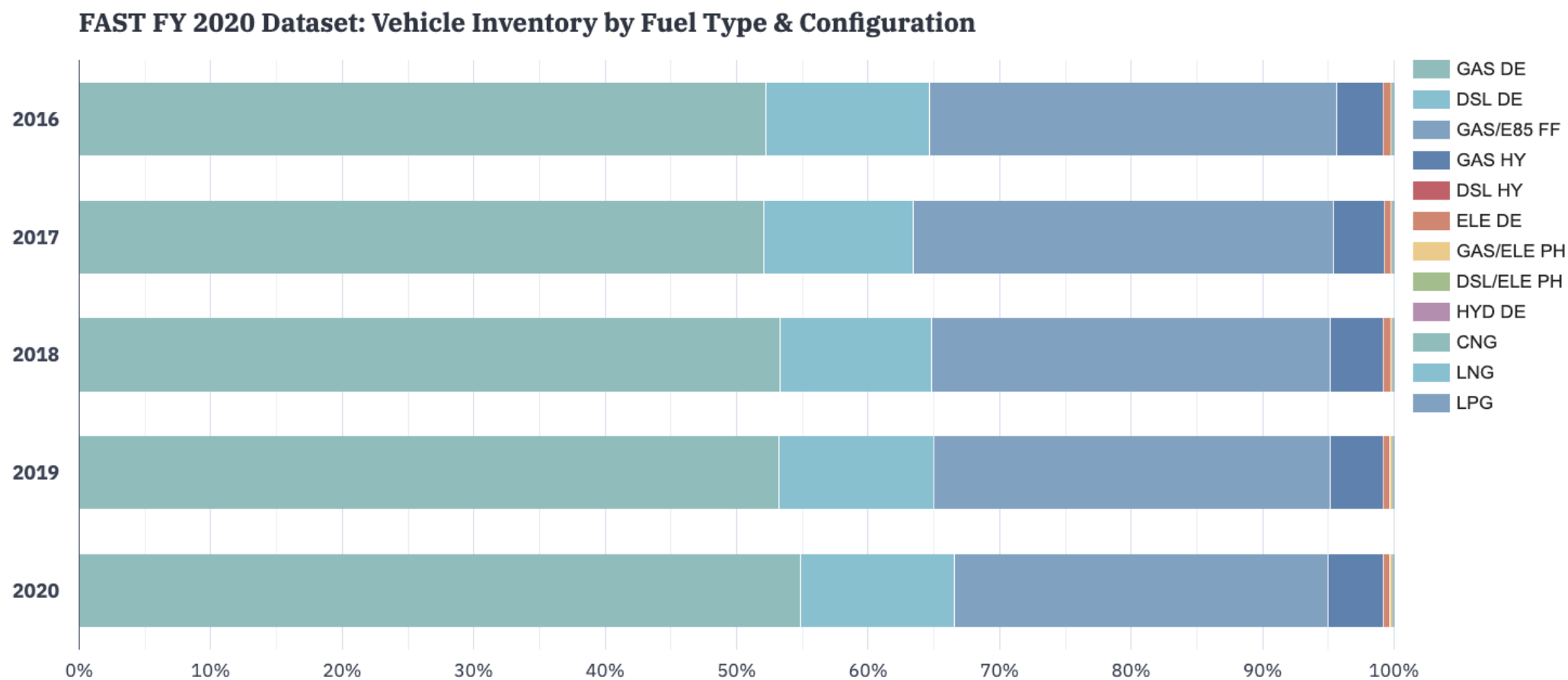
Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

Federal Fleet: Recent Trends - Inventory

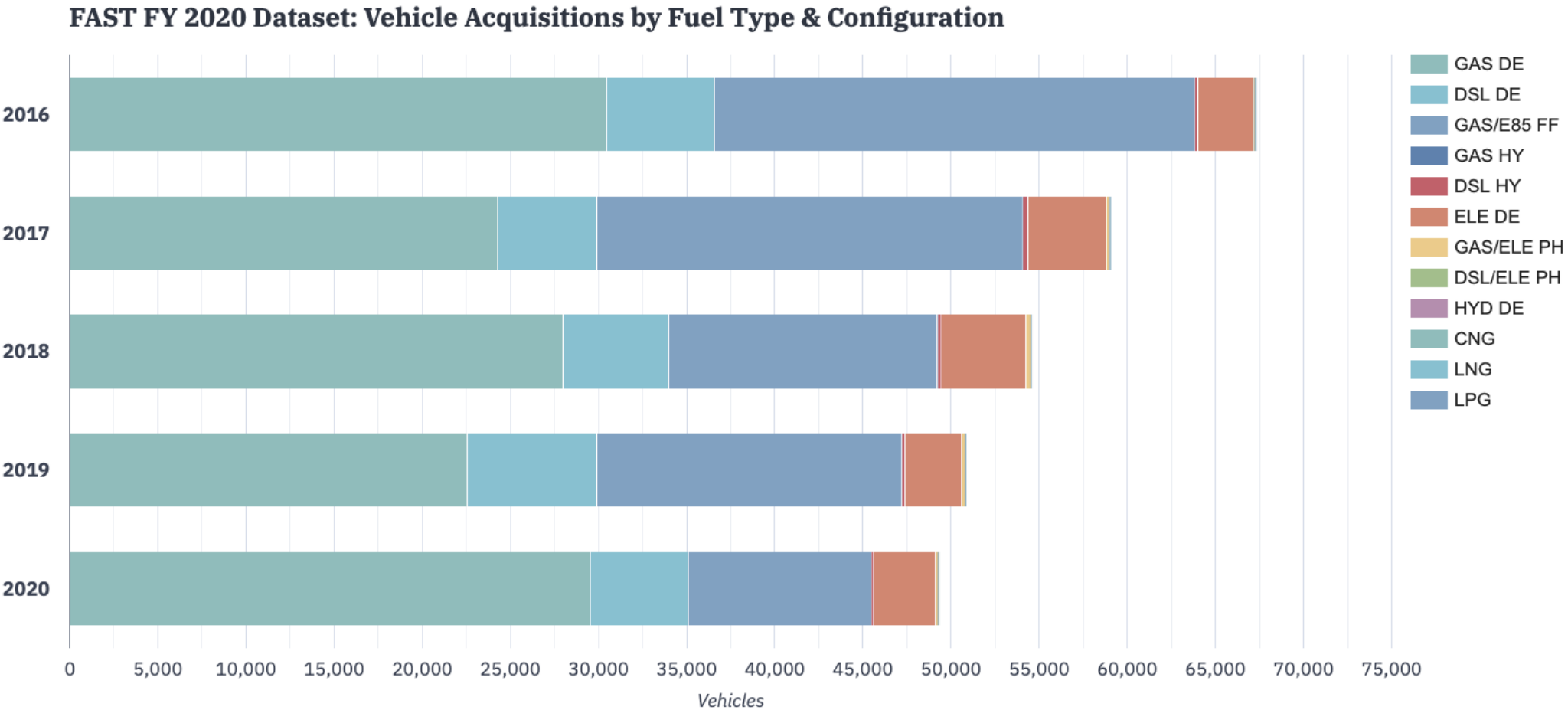


Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

Federal Fleet: Recent Trends - Inventory

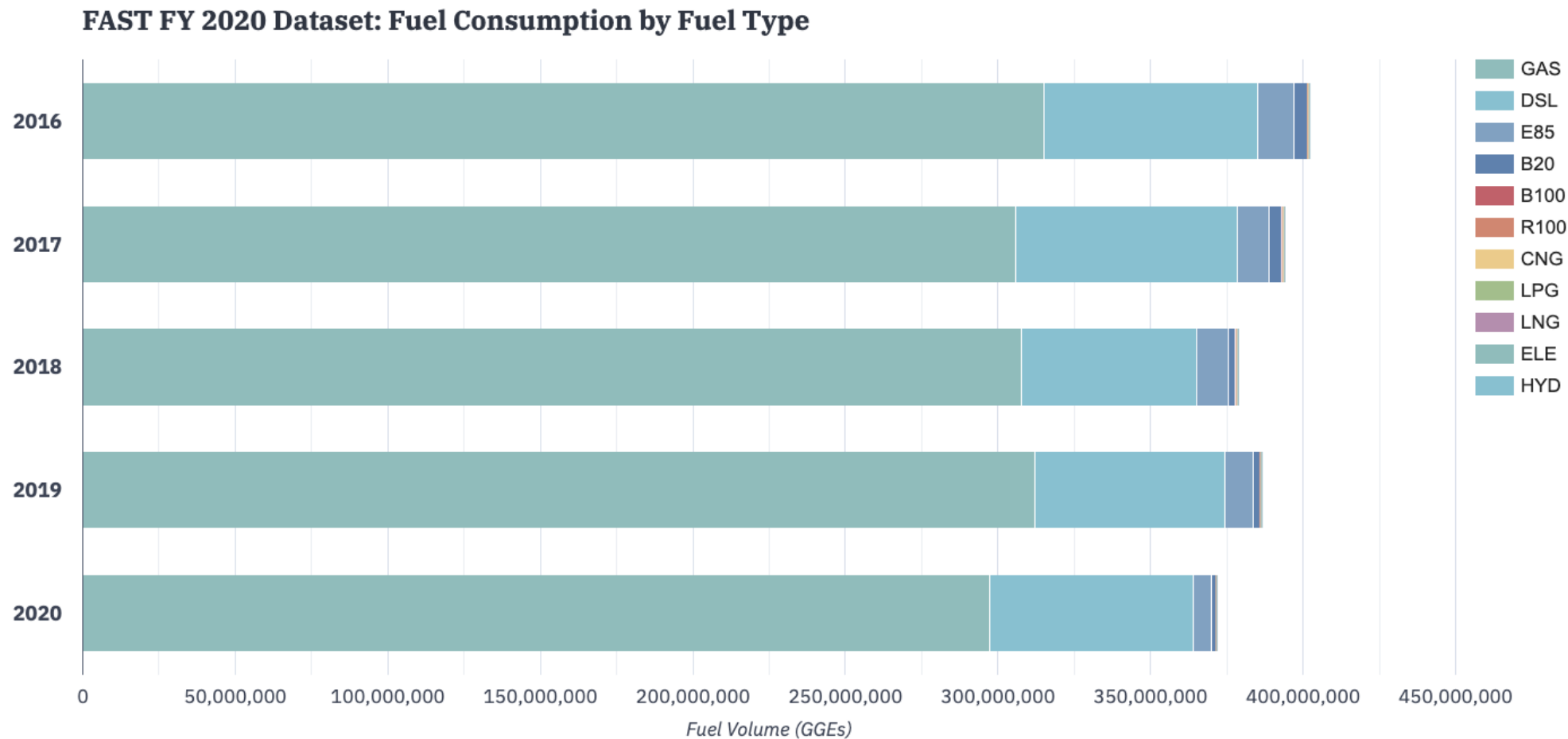


Federal Fleet: Recent Trends - Acquisitions

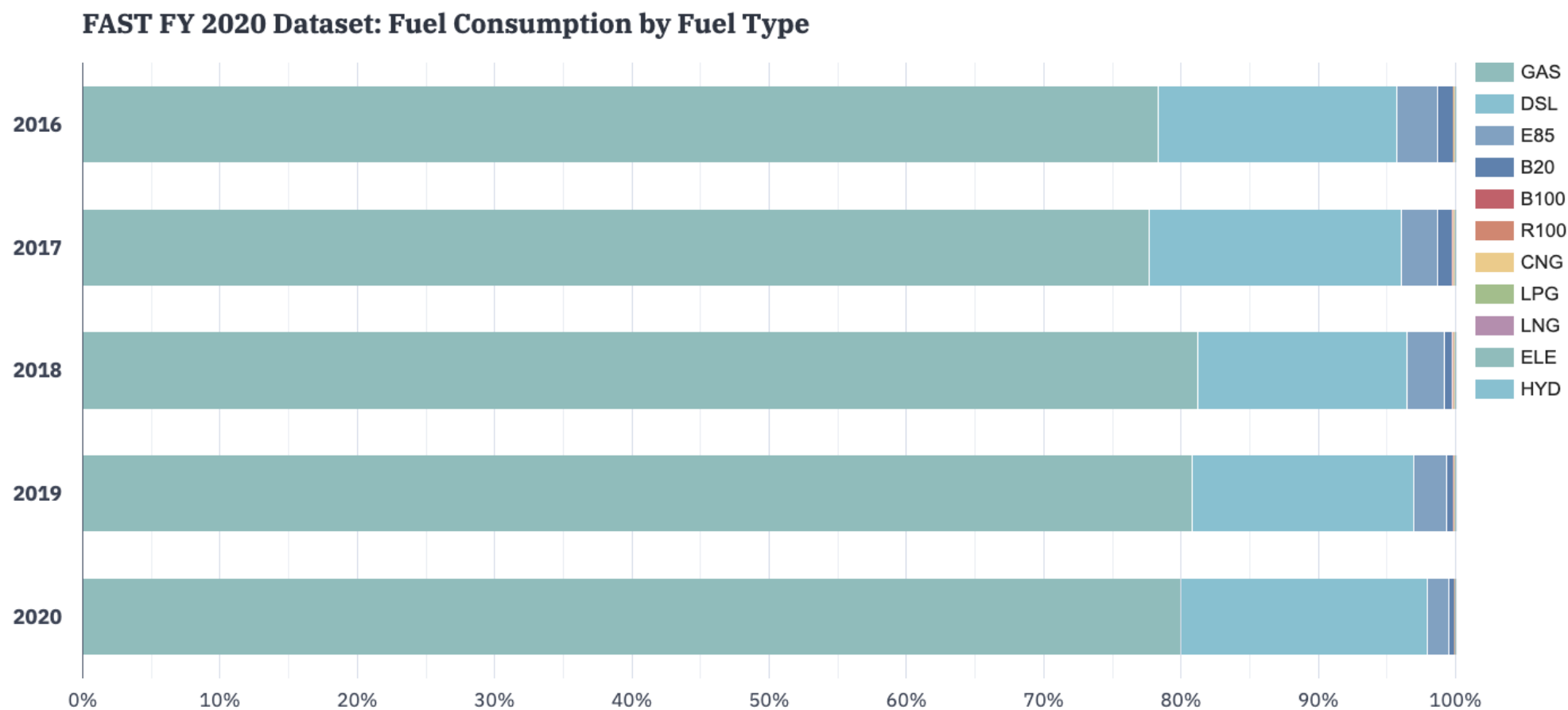


Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

Federal Fleet: Recent Trends – Fuel

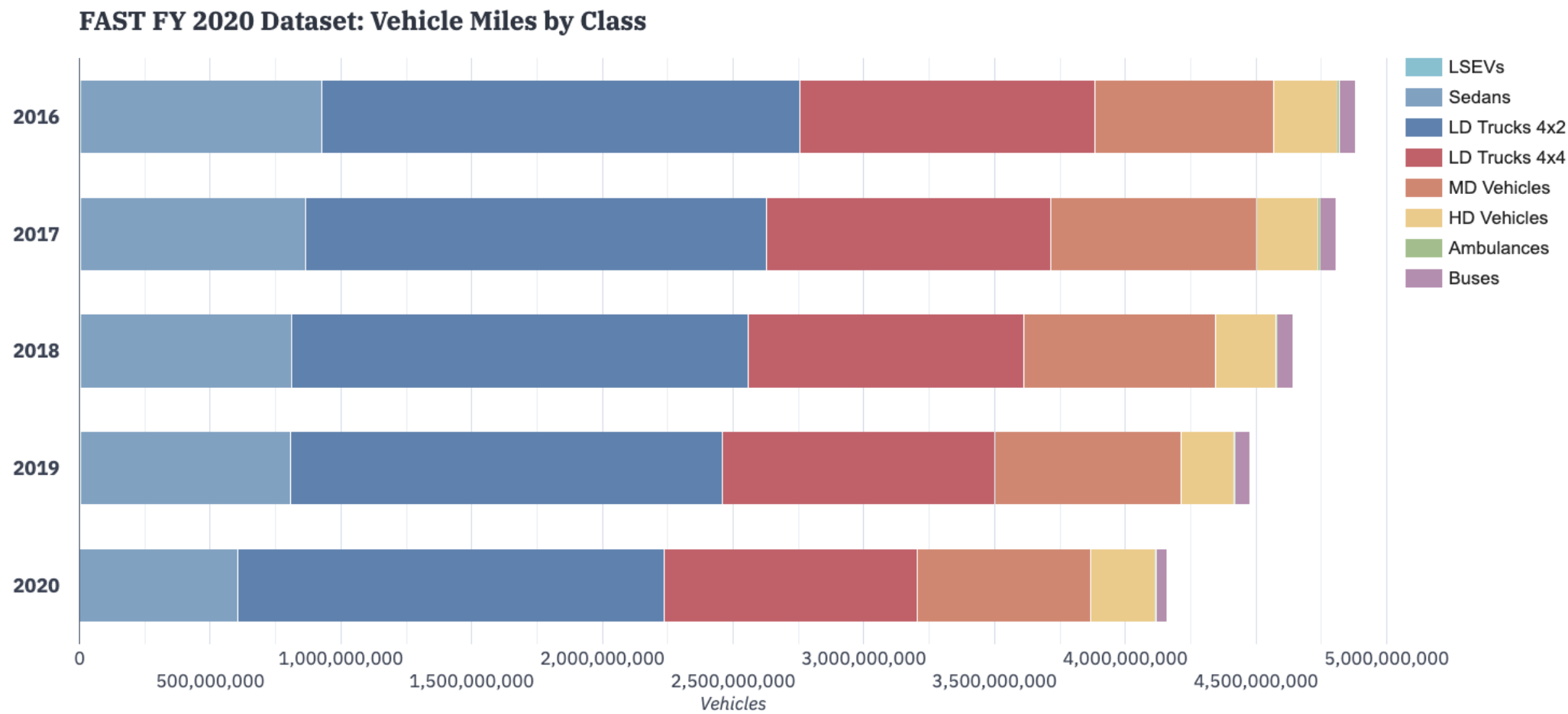


Federal Fleet: Recent Trends - Fuel

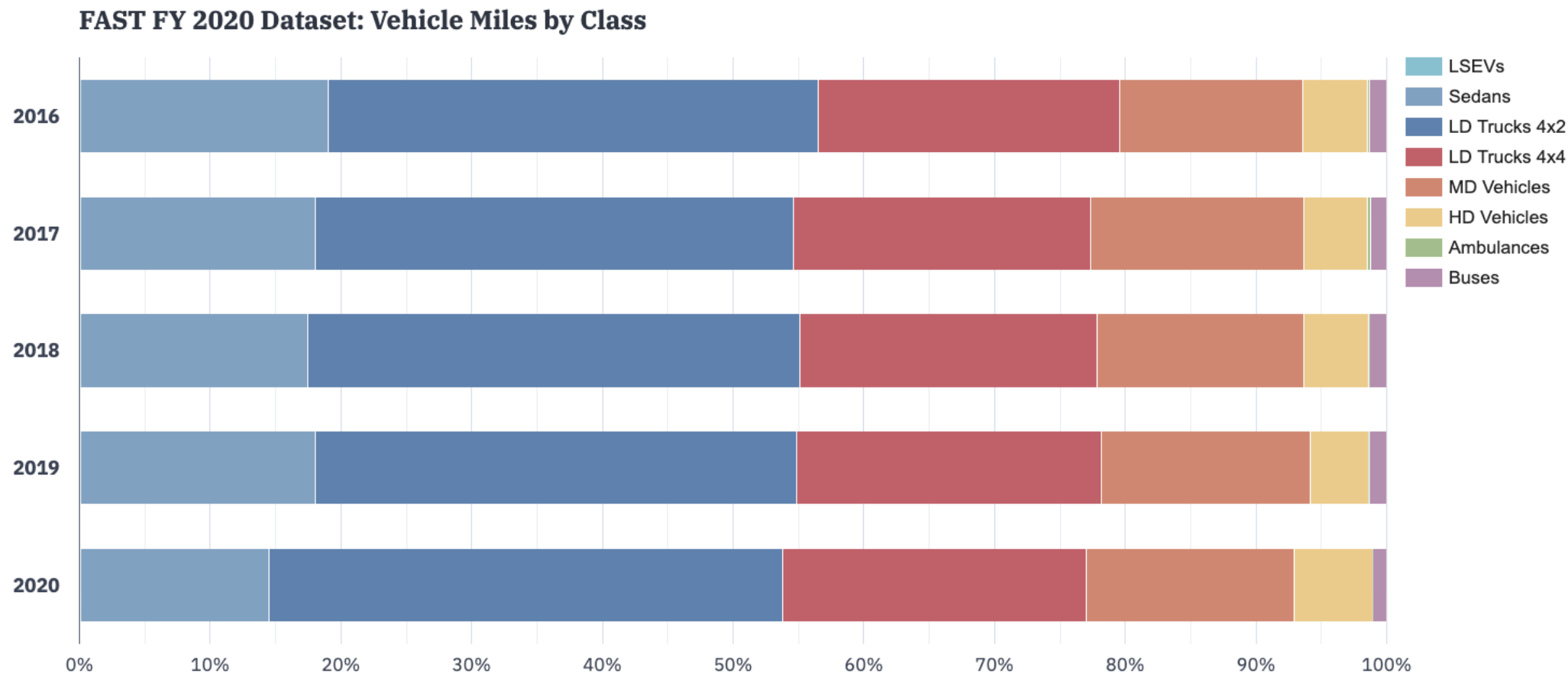


Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

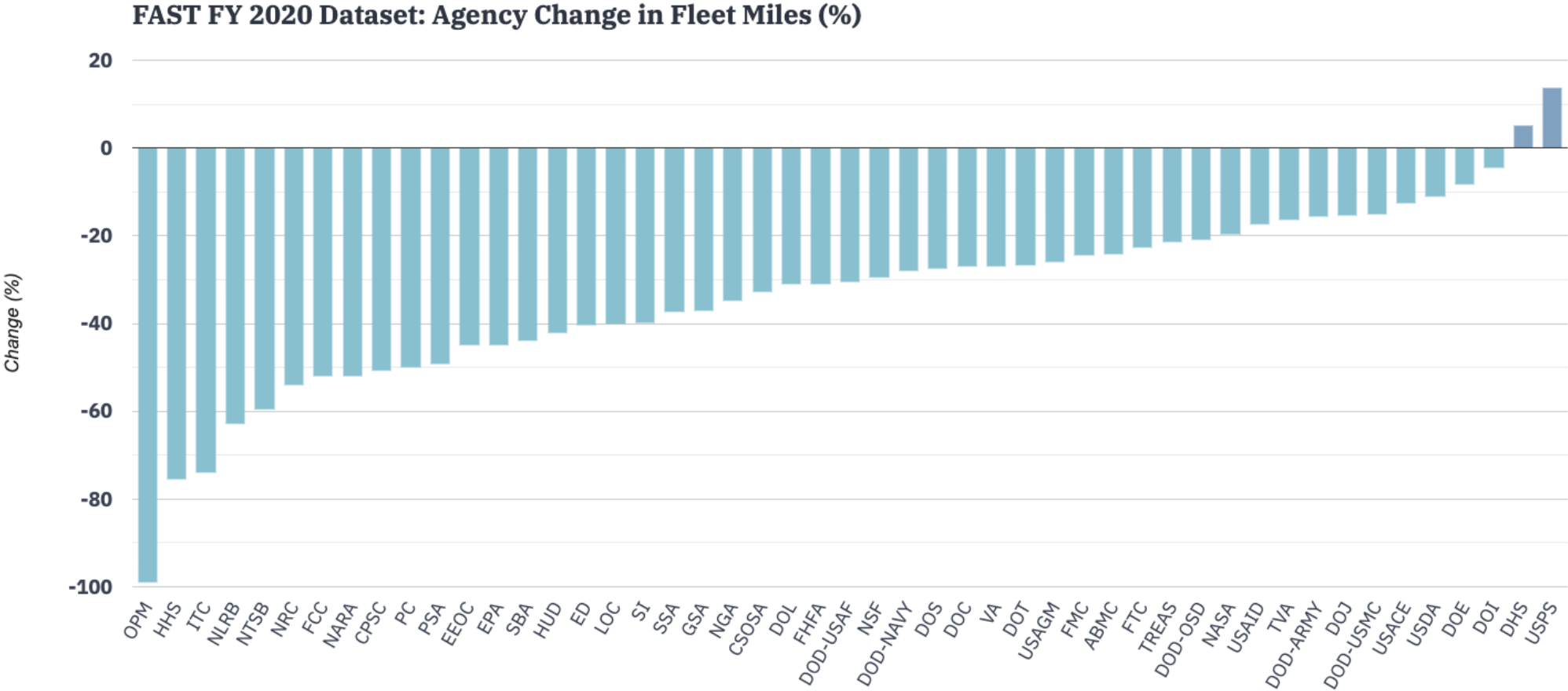
Federal Fleet: Recent Trends – Miles



Federal Fleet: Recent Trends – Miles

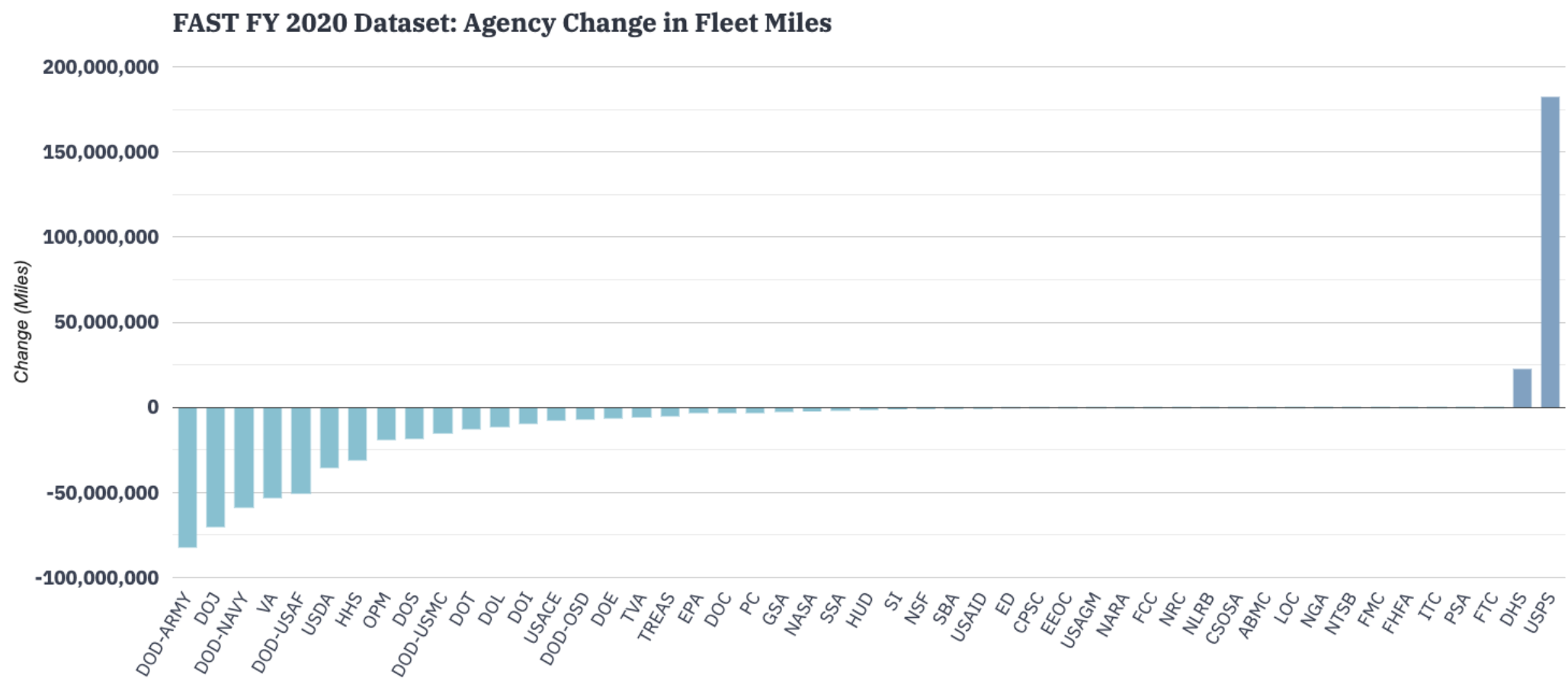


Federal Fleet: Recent Trends – Miles



Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

Federal Fleet: Recent Trends – Miles



Source: Federal Automotive Statistical Tool, <https://fastweb.inl.gov/>

Current Challenges

Current Challenges: Data Quality

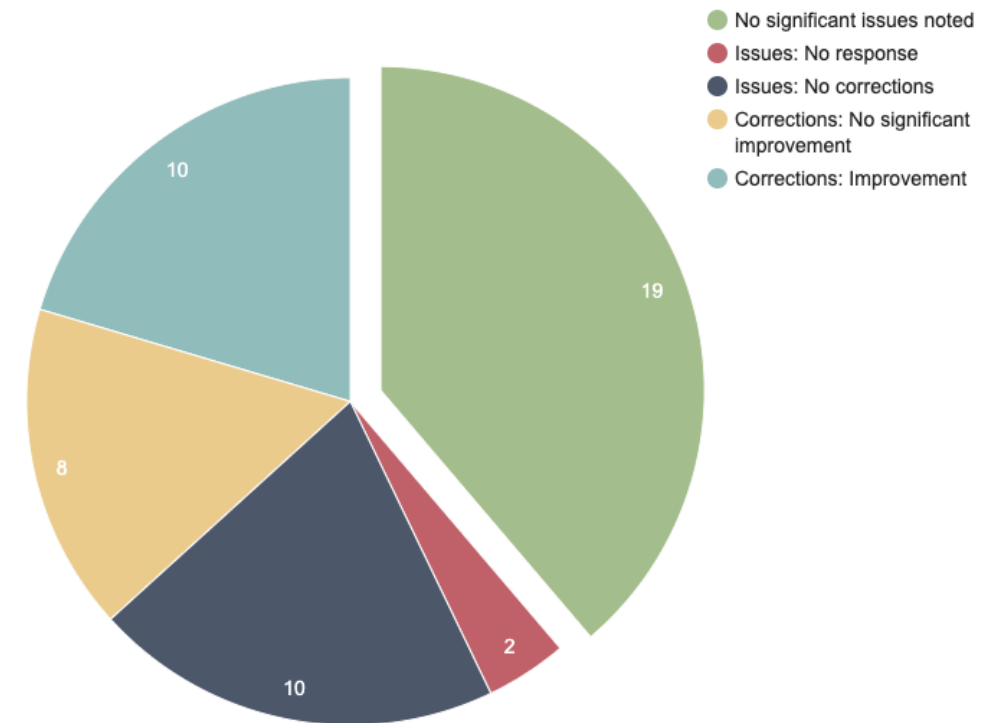
- **Is the quality of the fleet dataset improving?**
 - It depends on how we look at it...
- **We need a simple way to discuss quality of the dataset...**
 - ... that is easy to understand
 - ... that allows comparisons along different axes (time, ownership, agency)
 - ... that helps agencies find and fix causes of quality concerns

Current Challenges: Data Quality – Review Process

- **Agency Submission Review Process**

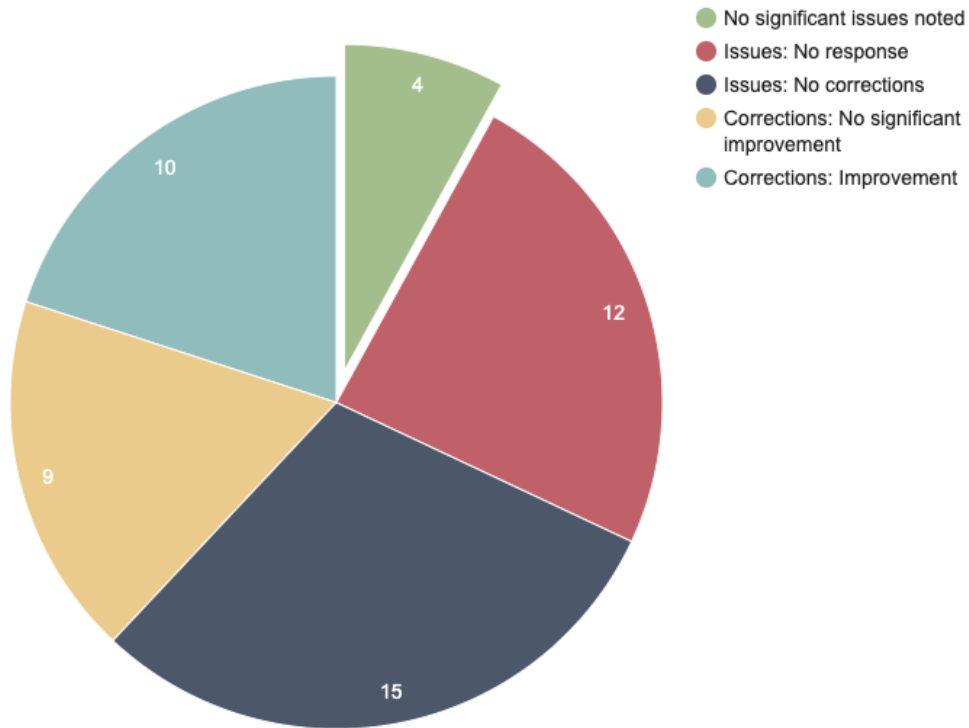
- Agency data validated by FAST during submission
- Agency designates submission as complete
- FAST team reviews agency submission; provides written feedback
- Agencies respond to identified areas of concern
- Agencies granted window to submit corrections

FAST FY 2020 Dataset: Dataset Review

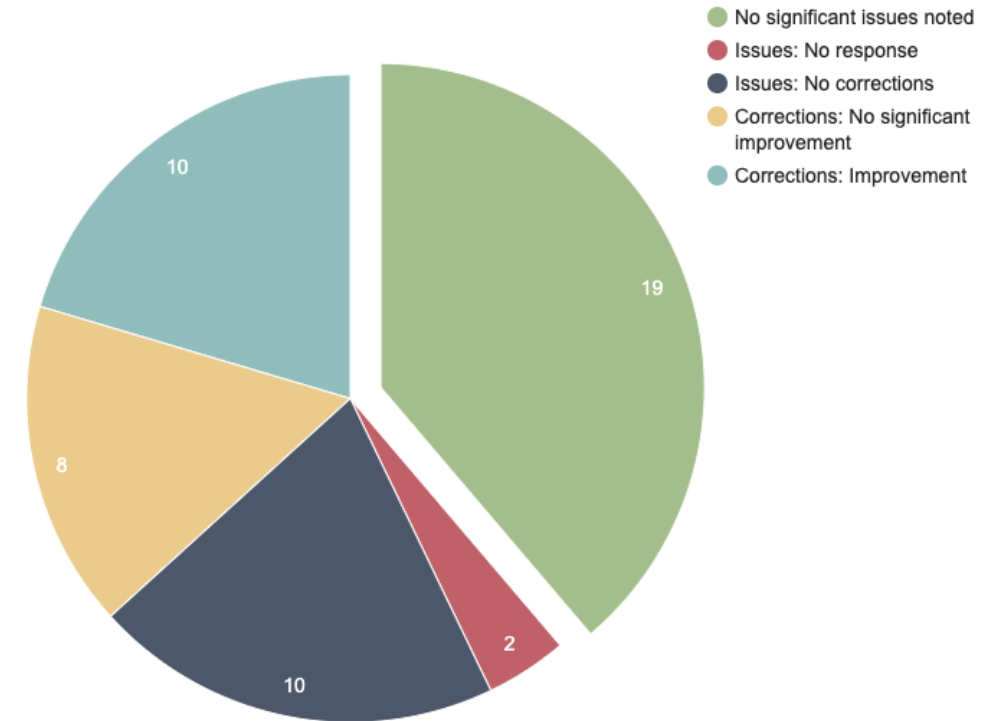


Current Challenges: Data Quality – Improving?

FAST FY 2019 Dataset: Dataset Review



FAST FY 2020 Dataset: Dataset Review



Current Challenges: Data Quality – Improving?

- **Yes? Larger group of agencies w/o significant issues**
 - 19 agencies in FY 2020 vs 4 in FY 2019
 - More agencies participating in review / feedback / correction process
- **No? Agencies with issues had more issues**
 - More issues identified in the dataset as a whole
 - Driven by challenges of FY 2020?
- **We want a clearer way to characterize quality**

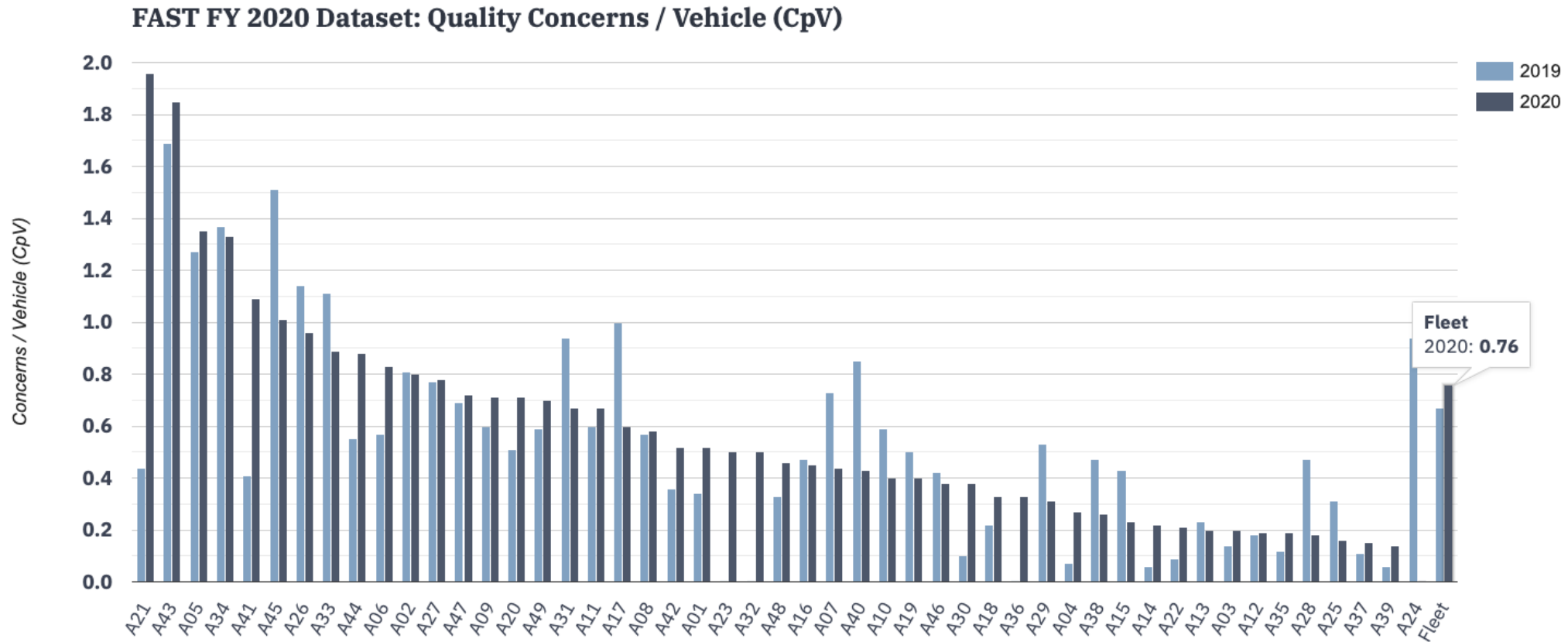


Current Challenges: Data Quality – A Metric

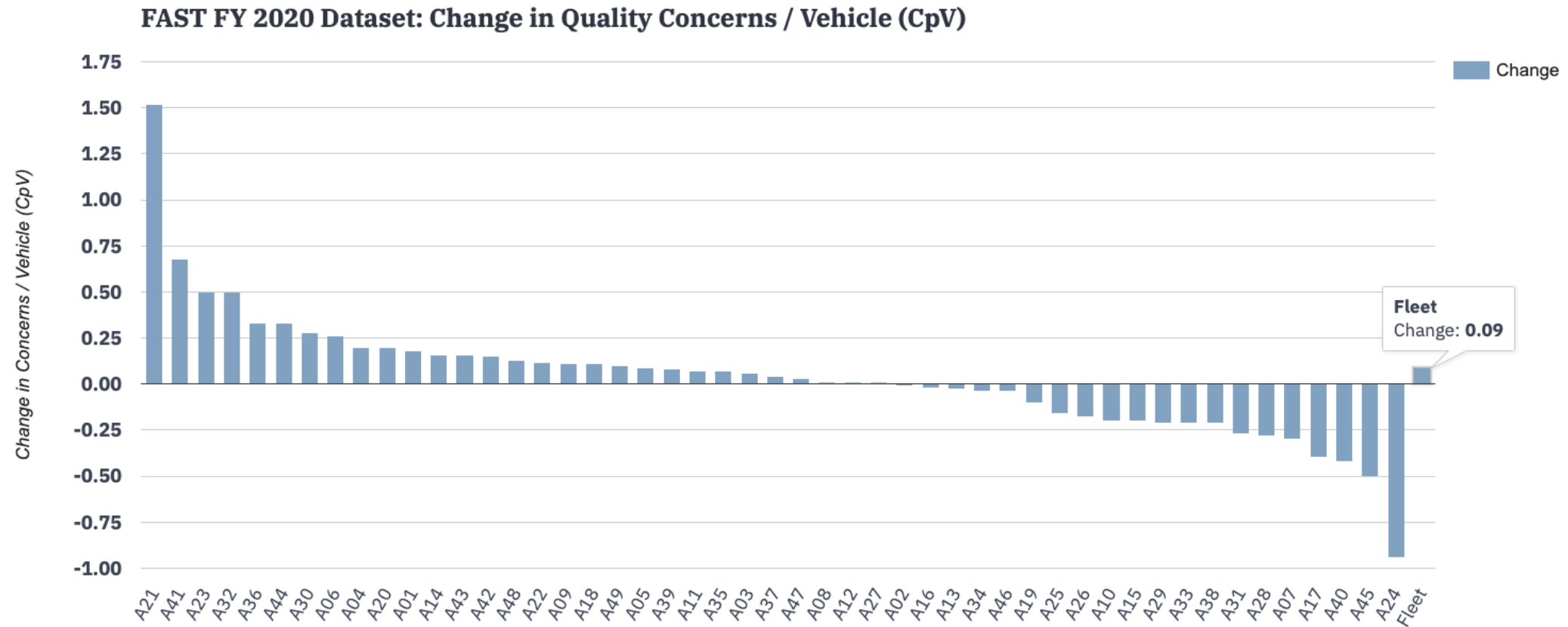
- **Data quality metric: Quality Concerns per Vehicle (CpV)**
- **Aggregates concerns across multiple areas**
 - Year-to-year continuity of reporting
 - Reasonability of key vehicle attributes
 - Completeness of data (e.g., missing vehicles, presence of “placeholder” attributes)
- **... divided by # of vehicles**
- **Easy to understand and compare**



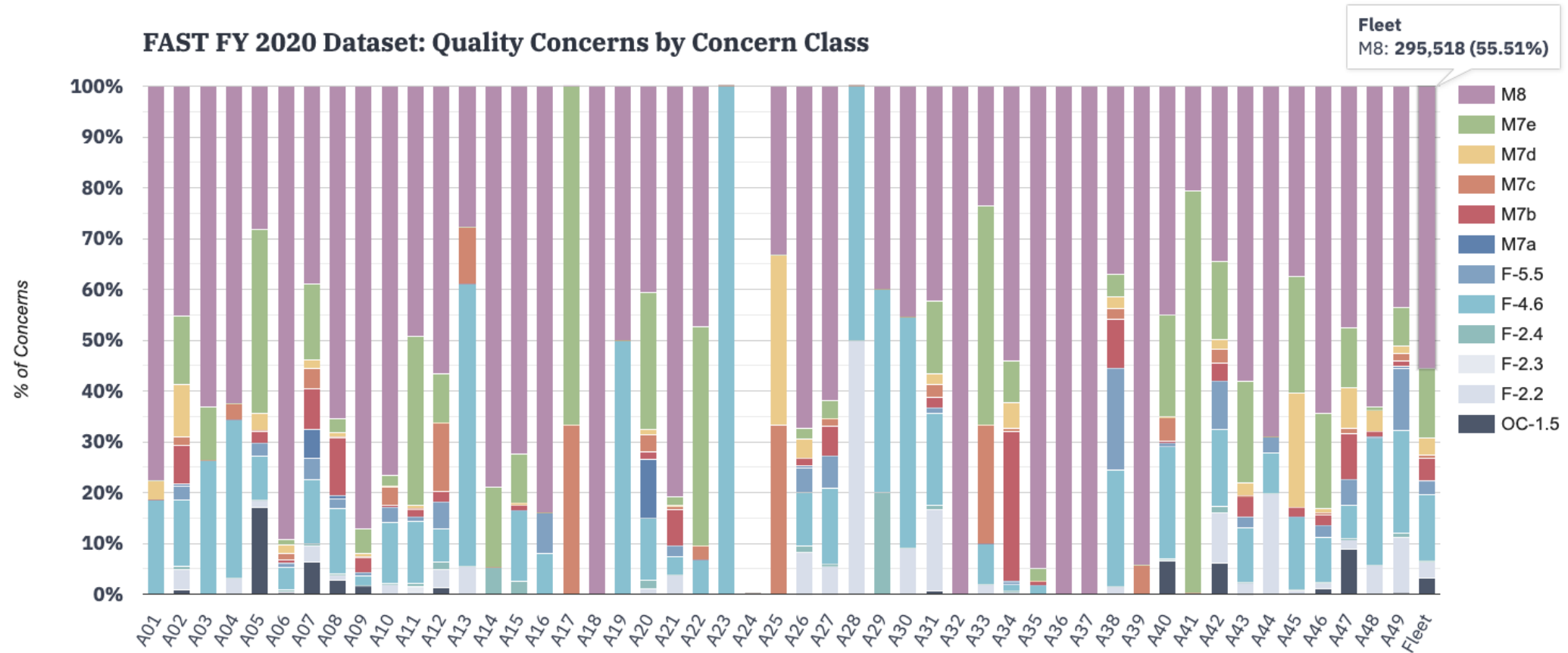
Current Challenges: Data Quality – A Metric



Current Challenges: Data Quality – A Metric

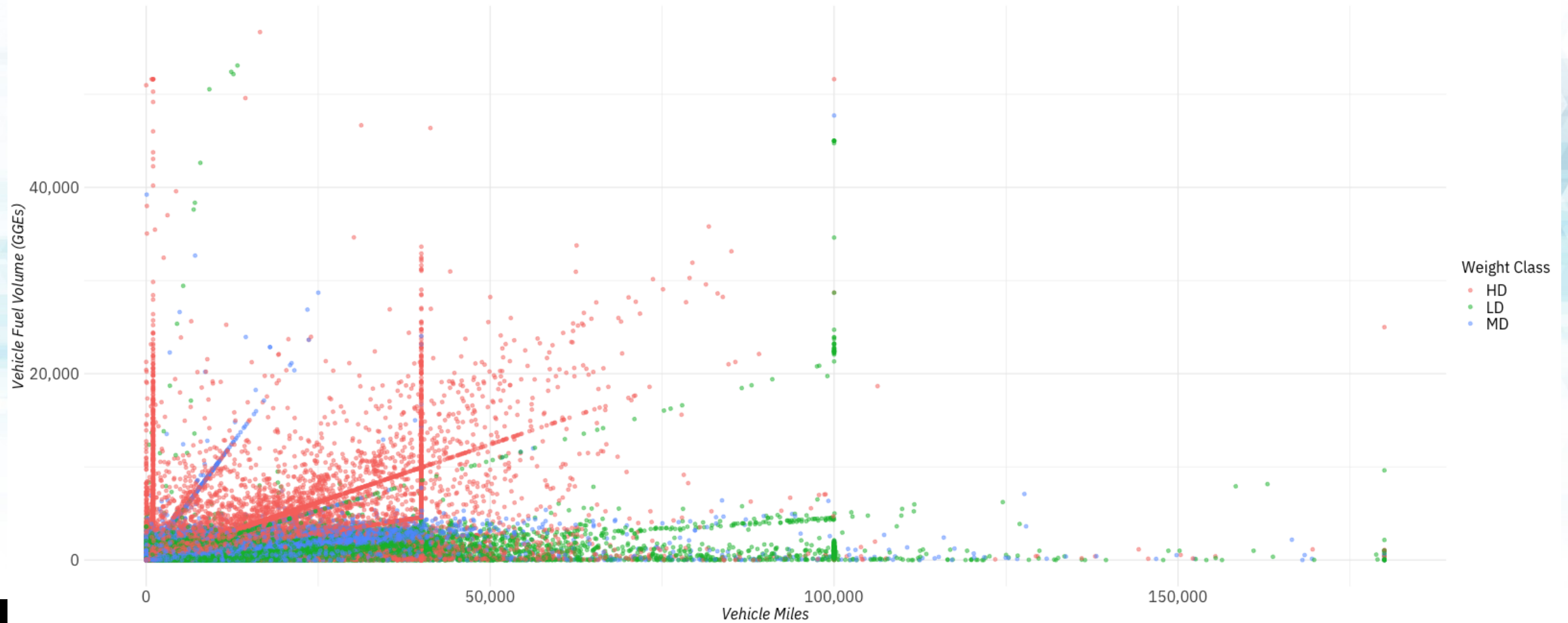


Current Challenges: Data Quality – A Metric



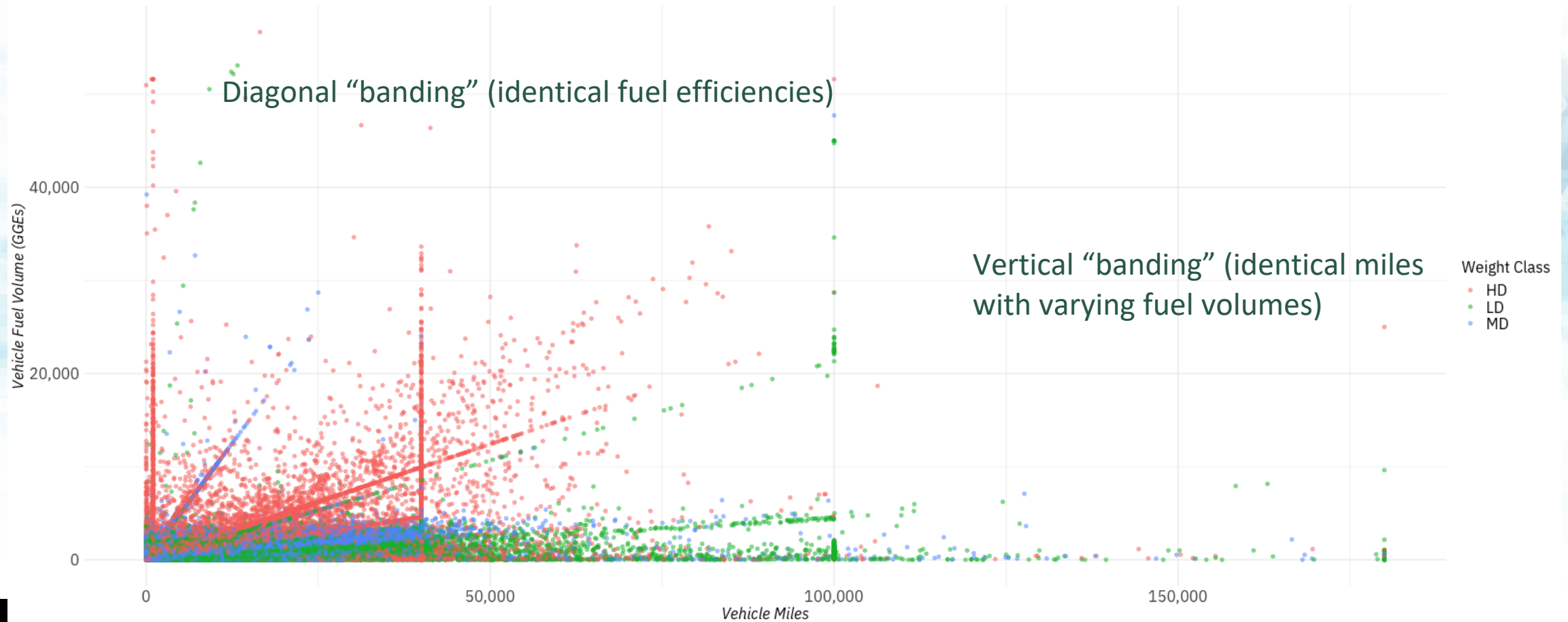
Current Challenges: Data Quality – Placeholders

FAST FY 2020 Dataset: Vehicle Fuel Volume and Miles

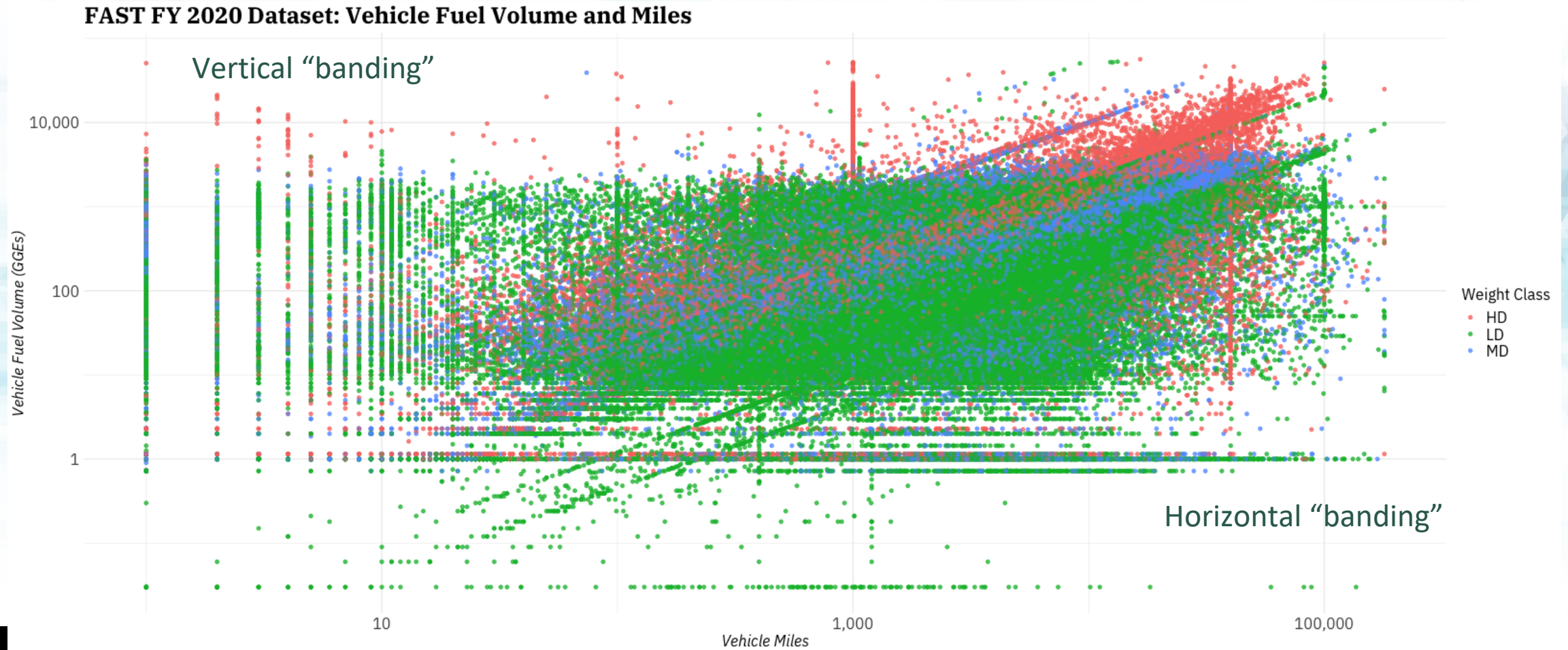


Current Challenges: Data Quality – Placeholders

FAST FY 2020 Dataset: Vehicle Fuel Volume and Miles



Current Challenges: Data Quality – Placeholders



Future Directions



Future Directions

- Continued emphasis on quality of fleet data
 - Assessing
 - Understanding
 - Improving
- Increased interest in fleet data

Future Directions

- Streamlining / accelerating / simplifying fleet data collection and reporting
 - Better source data
 - Expanded use of vehicle telematics
 - Expanded integration of systems/processes upstream of fleet MISs
 - Shorter reporting / review / feedback timelines
 - Maturing reporting processes and tools within agencies
 - Improved feedback to agencies
 - Virtuous impact of improved data quality: improving quality simplifies reporting
 - Automation of reporting?

Discussion



Contacts & Resources

- GSA Office of Government-wide Policy

- James Vogelsinger
✉ james.vogelsinger@gsa.gov
- Patrick McConnell
✉ patrick.mcconnell@gsa.gov

- DOE Federal Energy Management Program

- Jay Wrobel
✉ jay.wrobel@ee.doe.gov
- Kendall Kam
✉ kendall.kam@ee.doe.gov

- FAST Support Team

- ✉ FASTsupport@inl.gov
- 🐦 @FASTdevs



- FAST

- 🕒 <https://fastweb.inl.gov>

- FAST Help

- ❓ <https://fastweb.inl.gov/help/>



Ron Stewart

FAST Program Lead

Idaho National Laboratory

ron.stewart@inl.gov



