INTERFUEL: FAST - FY
2020 Federal Fleet Dataset

March 2021

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FAST: FY 2020 Federal Fleet Dataset
INTERFUEL • March 2021
FY 2020 Federal Fleet Dataset: Overview

- 49 organizations
- 704K vehicles
- 1.1M fuel records

FY 2020 Federal Fleet Dataset: Overview

**Inventory**
658K
+1.9%

**Miles**
4.16B
-7.1%

**Fuel**
372M GGE
-3.8%

**Cost**
$3.55B
-3.9%

Cost figures include only operating costs (lease, maintenance, accident repair, fuel, indirect costs) and do not include costs associated with acquisition, disposal, or depreciation
FY Federal 2020 Fleet Dataset: Overview

Agency Submissions

FY 2020 Federal Fleet Dataset: Overview

Agency Submissions

FY 2020 Federal Fleet Dataset: 5-Year Trends

Vehicle Inventory

FAST FY 2020 Dataset: Vehicle Inventory by Ownership

FY 2020 Federal Fleet Dataset: 5-Year Trends

Vehicle Inventory

**FAST FY 2020 Dataset: Vehicle Inventory by Ownership**

<table>
<thead>
<tr>
<th>Year</th>
<th>Agency Owned</th>
<th>GSA Lease</th>
<th>Comm. Lease</th>
</tr>
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<tbody>
<tr>
<td>2016</td>
<td></td>
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<td></td>
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<tr>
<td>2017</td>
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<td>2018</td>
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<td></td>
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<td>2019</td>
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<tr>
<td>2020</td>
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</tbody>
</table>

FY 2020 Federal Fleet Dataset: 5-Year Trends
Vehicle Inventory

FAST FY 2020 Dataset: Vehicle Inventory by Class

FY 2020 Federal Fleet Dataset: 5-Year Trends
Vehicle Inventory

FAST FY 2020 Dataset: Vehicle Inventory by Fuel Type & Configuration

FY 2020 Federal Fleet Dataset: 5-Year Trends

Vehicle Inventory

FY 2020 Federal Fleet Dataset: 5-Year Trends

Vehicle Acquisitions

FAST FY 2020 Dataset: Vehicle Acquisitions by Fuel Type & Configuration

FY 2020 Federal Federal Fleet Dataset: 5-Year Trends

Vehicle Acquisitions

FAST FY 2020 Dataset: Vehicle Acquisitions by Fuel Type & Configuration

FY 2020 Federal Fleet Dataset: 5-Year Trends
Vehicle Acquisitions

FAST FY 2020 Dataset: Vehicle Acquisitions by Class

FY 2020 Federal Fleet Dataset: 5-Year Trends
Fuel Consumption

FAST FY 2020 Dataset: Fuel Consumption by Fuel Type

FY 2020 Federal Fleet Dataset: 5-Year Trends

Fuel Consumption

**FAST FY 2020 Dataset: Fuel Consumption by Fuel Type**

- **2016**
- **2017**
- **2018**
- **2019**
- **2020**

FY 2020 Federal Fleet Dataset: 5-Year Trends

Operating Costs

Cost figures include only operating costs (lease, maintenance, accident repair, fuel, indirect costs) and do not include costs associated with acquisition, disposal, or depreciation.
FY 2020 Federal Fleet Dataset: 5-Year Trends

Operating Costs

FAST FY 2020 Dataset: Fleet Costs by Cost Category

Cost figures include only operating costs (lease, maintenance, accident repair, fuel, indirect costs) and do not include costs associated with acquisition, disposal, or depreciation.
FY 2020 Federal Fleet Dataset: Year-to-Year Comparison

**Inventory**
- 658K
- +1.9%

**Miles**
- 4.16B
- -7.1%

**Fuel**
- 372M GGE
- -3.8%

**Cost**
- $3.55B
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FY 2020 Federal Fleet Dataset: Year-to-Year Comparison

FY 2020 Federal Fleet Dataset: Year-to-Year Comparison

FAST FY 2020 Dataset: Agency Change in Fleet Miles

FY 2020 Federal Fleet Dataset: Year-to-Year Comparison


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FY 2020 Federal Fleet Dataset: Year-to-Year Comparison


Chart: FAST FY 2020 Dataset: Agency Change in Fleet Miles and Fuel
FY 2020 Federal Fleet Dataset: Year-to-Year Comparison

Cost figures include only operating costs (lease, maintenance, accident repair, fuel, indirect costs) and do not include costs associated with acquisition, disposal, or depreciation.
FY 2020 Federal Fleet Dataset: Review and Corrections

Review Process and Results

• FAST management team reviewed agency submissions

• Written feedback provided to agencies (late January 2021)

• Agencies responded to any noted potential issues

• Agencies granted short period to submit corrections where feasible (due late February 2021)
FY 2020 Federal Fleet Dataset: Review and Corrections

FAST FY 2020 Dataset: Dataset Review

- No significant issues noted: 19
- Issues: No response: 2
- Issues: No corrections: 10
- Corrections: No significant improvement: 6

FAST FY 2019 Dataset: Dataset Review

- No significant issues noted: 12
- Issues: No response: 10
- Issues: No corrections: 15
- Corrections: No significant improvement: 9
FY 2020 Federal Fleet Dataset: Review and Corrections

Impact of Agency Corrections

• Review Measure 6: Invalid vehicle fuel efficiencies
  - Agency corrections reduced issues by 19% (3,500 vehicles)
  - 5 agencies addressed over 80% of the identified vehicles in their submissions

• Review Measure 7(d): Previously-reported vehicles missing
  - 3 agencies reduced these by 15%, 36%, 100% (adding almost 200 vehicles)

• Review Measure 8: Use of “placeholder” vehicle attributes
  - 12 agencies reduced these:
    • Over 1,400 fewer vehicles with placeholders
    • Eliminated over 1,200 blocking placeholders, 700 flagging placeholders
  - 2 agencies eliminated over 70% of their placeholders
FY 2020 Federal Fleet Dataset

Important Activity After the Data Call

- Fleet fuel cost data finalized
  - FAST’s “Fleet Fuel Consumption Report for Greenhouse Gas Reporting” finalized
  - Summaries for all agencies transmitted to DOE’s Federal Energy Management Program

Fleet Fuel Consumption Report for Greenhouse Gas Reporting

Department of Energy - FY2020

About this Report: This FAST report is provided to facilitate reporting of the greenhouse gas emissions associated with fleet fuel consumption in the Federal Energy Management Program’s annual Greenhouse Gas and Sustainability Data Report. The output of this FAST report may be used as the input for the "FAST's Fleet Fuel Consumption Report for Greenhouse Gas Reporting" tool. The output of the FAST report is not finalized until all agencies have completed their reports. If an agency has not completed its report or has not finalized its report, the total emissions reported by the agency will not be included in the final report. 

Electricity and hydrogen are not represented among the fuels here because vehicles do not produce greenhouse gas emissions when consuming these fuels. The generation of electricity or hydrogen may produce emissions, but such emissions are not reported in association with the emissions from fleet fuel consumption. The emissions associated with the generation of electricity used to charge plug-in electric vehicles and low-speed electric vehicles are captured at the agency’s reporting of facility electricity consumption, not in the reporting of fleet fuel consumption.

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FY 2020 Federal Fleet Dataset

Important Activity After the Data Call

• EPAct AFV acquisition compliance analysis is complete
  − Same process as FY 2019: vehicle location used to determine vehicle coverage / exemption status
  − Now reflected on FAST’s “EPAct AFV Acquisition Compliance Report”
FY 2020 Federal Fleet Dataset

Important Activity After the Data Call

• Other Compliance and Reporting Activities
  - Review and incorporation of fueling center and EVSE inventory submissions into DOE’s Alternative Fuel Data Center
  - EISA 2007 Section 141 compliance summary transmitted to EPA
  - Preparation of OMB sustainability scorecards
  - EPAct 2005 Section 701 compliance analysis
  - Preparation of GSA’s Federal Fleet Report data tables and related products

• Preparation for FY 2021 Reporting
Discussion
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