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Federal Automotive Statistical Tool: Asset-Level Data - Lessons Learned and Looking Forward

Ron Stewart

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Idaho National Laboratory
Idaho Falls, Idaho 83415

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Ron Stewart

FAST Technical Lead

DOE-Idaho National Laboratory

We'll cover…

- FY 2017 and ALD: A quick recap
- What we learned and what we're changing
- Need more information?

FY 2017 and ALD: A quick recap

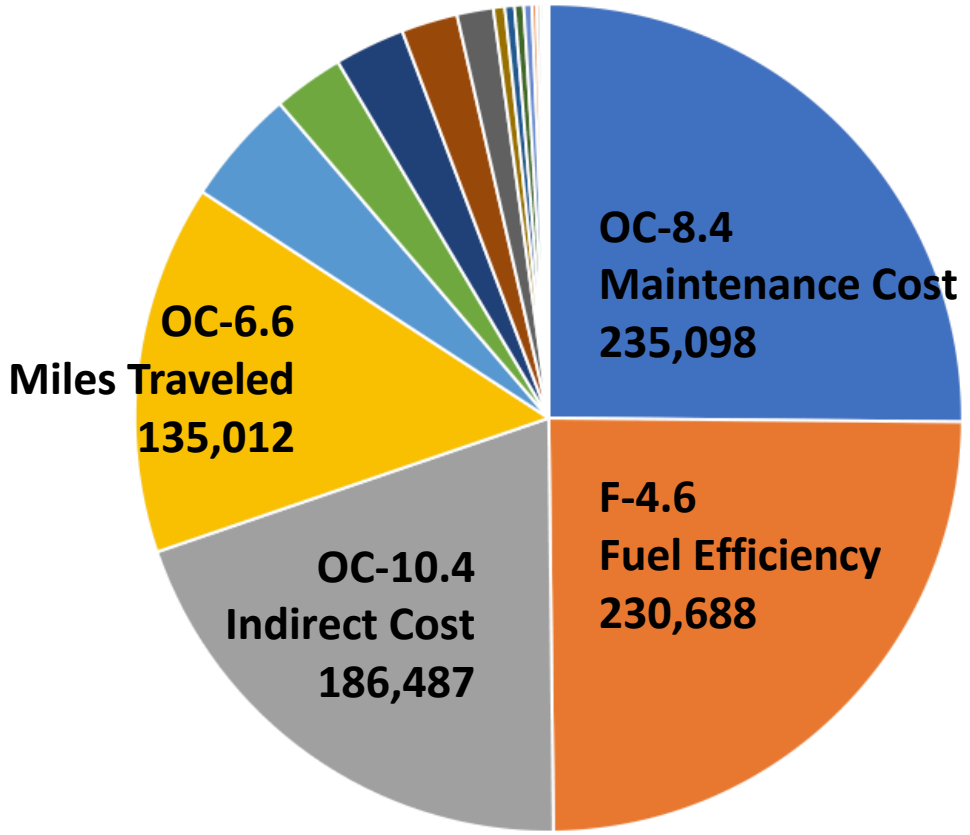
- **39 of 49 reporting agencies provided ALD**
  - First use of ALD for all except Department of the Treasury
  - Fleets from 3 to 230K vehicles
- **~ 90% of the fleet as ALD**
  - ~ 610K vehicles
  - ~ 915K fuel entries

What we learned…

- **After the data call: comprehensive review of flags and flagged data**
  - Looking at flag counts
  - … flags by agency
  - … distribution of data vs what was flagged
- **Trying to answer one key question:**
  - Were we flagging what we should be?

What we learned…

- **Flags**
  - ~ 910K flags total
  - 25 of 26 flags occurred
  - Flag counts ranged from 10 to 235K per flag



What we learned…

- **Evaluated each flag**
  - Statistical analysis of the relevant data
  - Review of flagging thresholds/ranges:
    - "What *is* typical for this data?"
  - Review of vehicle applicability:
    - "Which vehicles *should* this flag apply to?"
  - Result was a decision if/how to revise each flag
    - 11 flagging rules with significant changes

What we're changing…

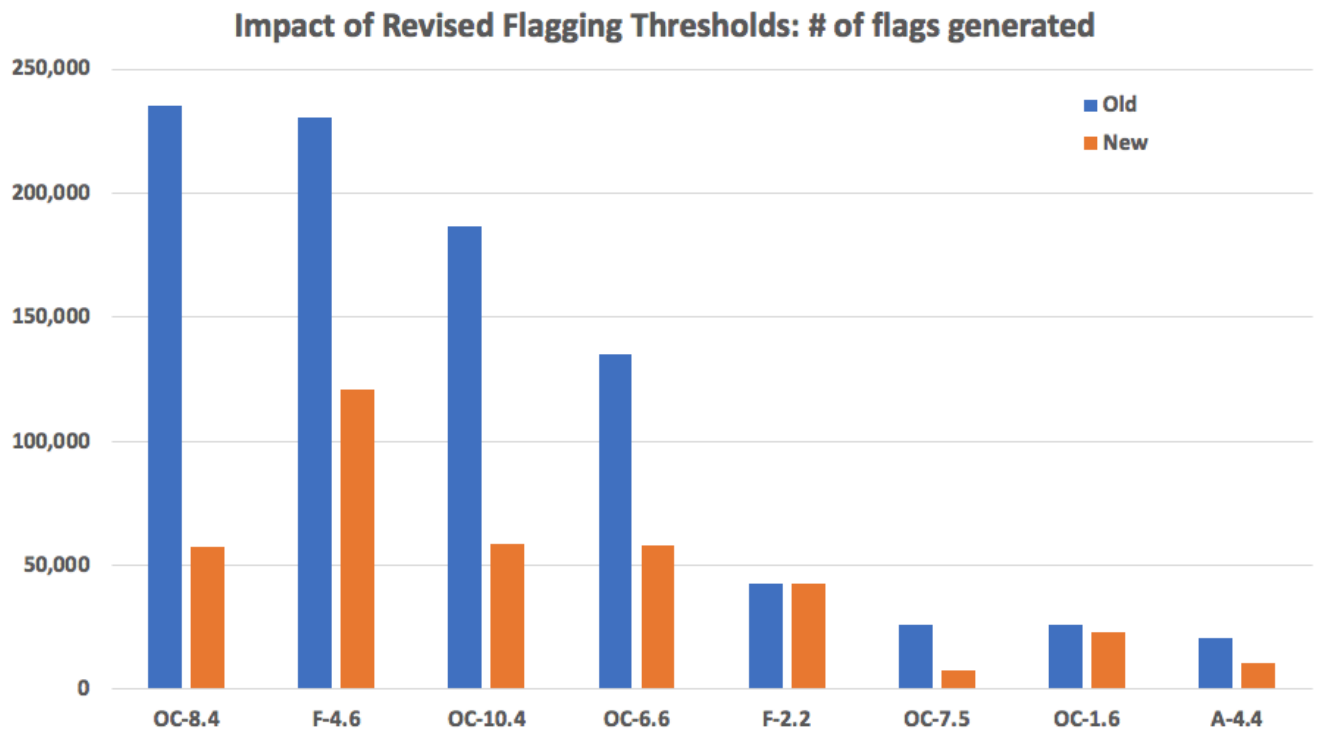
- **Guiding principles:**
  - Less noise, more signal
  - Don't break things (or make things worse)
- **27 specific changes to business rules:**
  - Better identification of outliers
  - Requirements changes (EO 13693 rescinded)
  - Improve quality and/or consistency of data
  - Make things simpler

What we're changing…

- **Better identification of outliers**
  - 9 rules with revised ranges
  - 9 rules with changes to vehicle applicability
    - # of months in the fleet
    - Ownership
    - Vehicle class

What we're changing…

- **Impact:**
  - Decrease of 500K flags to ~ 410K total



What we're changing…

- **Requirements-driven changes**
  - Element S-4, EO 13693 Designation
    - deprecated for FY 2018 reporting
    - to be retired in FY 2020
  - Four business rules related to S-4 deprecated, modified to no longer look at that element, or retired for FY 2018 reporting

What we're changing…

- **Make things simpler, easier, better**
  - 6 clarifications of data element or biz rule descriptions
  - Support of "U" class ZIP codes for A-10, Garage-ZIP
    - e.g., ZIP codes assigned to Federal buildings
  - Support for "MD Ambulance" vehicle type
    - for consistency with "LD Ambulance" and "HD Ambulance"
  - New flagging rule: vehicles reporting B100 w/o DSL
  - New blocking rules for consistency of future-year data:
    - acquisition costs vs. quantities, disposal proceeds vs. quantities

More information…

- **FAST Help > Resources > Vehicle-Level Data**
  - Current revisions of key references
    - Data Element Reference
    - Business Rules Reference
    - Comprehensive summary of these changes
- **FAST Help > News**
  - Information about recent (and pending) changes

Web Address: https://fastweb.inl.gov/help/

More information…

- **FAST Program Points of Contact**
  - DOE Federal Energy Management Program
    - Karen Guerra (karen.guerra@ee.doe.gov)
  - GSA Office of Government-wide Policy
    - Jim Vogelsinger (james.vogelsinger@gsa.gov)
  - EIA Office of Energy Consumption & Efficiency Statistics
    - Cynthia Sirk (cynthia.sirk@eia.gov)
  - INL FAST Team
    - Michelle Kirby (michelle.kirby@inl.gov)
    - Ron Stewart (ron.stewart@inl.gov)
    - Twitter: @FASTdevs