

November 9, 2022

Sharath Kallaje • Ron Stewart
FAST Support Team

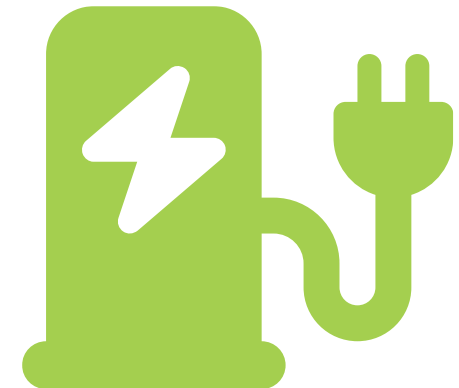
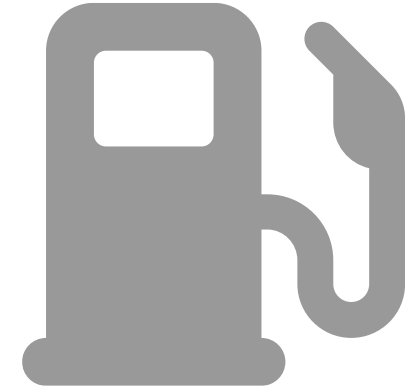
Federal Automotive Statistical Tool **FY 2022 Data Call Status & Review Tools** INTERFUEL

In-progress FY 2022 Data Calls

Current data calls in FAST

FY 2022 Fueling Center & EVSE Inventory Submission

- Captures end-of-FY information for all agency fueling centers and EVSE installations
- Single Excel submission for each agency
 - Pre-filled template available in FAST
 - Download / update / upload for validation
 - Designate submission complete
- **Due: Tuesday, 15-Nov**
- **Status:**
 - 6 agencies complete w/fueling centers and/or EVSE
 - 8 agencies complete w/no fueling centers or EVSE
 - 2 agencies in progress



Status as of 08-Nov-2022, source: FAST, <https://fastweb.inl.gov/>

Current data calls in FAST

FY 2022 Fleet Data Submission

- Captures vehicle and fuel consumption data for all fleet vehicles for FY 2022
 - Vehicle attributes
 - Compliance-related designations
 - Operational data: costs, miles, fuel consumption
- **Due: Thursday, 15-Dec**
- **Status:**
 - No agencies complete yet
 - 7 agencies with ~87K vehicles loaded in FAST
 - 2 add'l agencies with ~24K vehicles loaded in FAST Sandbox



Status as of 08-Nov-2022, source: FAST, <https://fastweb.inl.gov/>

Current data calls in FAST

BY 2025 Fleet Projections Submission

- Captures FY 2023 / 24 / 25 fleet acquisition, disposal, cost projections
- Accompanied by Fleet Management Plan & Budget Narrative
- Supports OMB A-11 budget process
- **Due: Late Aug-2023**



Where should we focus?

- **Fueling Center & EVSE Inventory Submission**
 - Due soonest (15-Nov)
 - Smaller and simpler
- **Fleet Data Submission**
 - Due next (15-Dec)
 - Submit early to provide time for review
- **Fleet Projections Submission**
 - Due last (Aug-2023)
 - Advantages of waiting:
 - Availability of updated narrative template from GSA
 - Develop in coordination with ZEF Strategic Plan
 - Clarity of vehicle availability for acquisition projections



Reviewing Your Fleet Data Submission

Where do we start?

- Review feedback from prior-year submission
- Understand the intent & role of the validation flags
- Load & validate data in FAST
- Use review tools in FAST to identify potential "hot spots"
 - Investigate
 - Correct, if warranted / feasible
 - Load & validate
- Designate submission as complete
- Review preliminary feedback from FAST team



Review feedback from prior year submission

- Post-submission review from FAST team
- Compliance impact review (EPA-covered and scorecard agencies)
- Data quality metric & identified priority areas
- FAST's "Vehicle Flagging Rules Summary" for prior year submission

FAST Management Team Review of FY 2021 Agency Data Submission

Prepared For: [Redacted]
Date: January 18, 2022

The FAST management team performs a high-level review of each agency's fleet data submission to identify potentially significant issues related to the overall completeness or quality of the submission. If this review identifies issues in the agency's submission, those issues are described below and the agency fleet point(s) of contact should complete the corresponding section within this document, noting whether the submitted data is or is not correct (with explanation) and, if incorrect, whether it can be corrected in a timely manner by placing an "X" in the corresponding box and providing the supporting explanation. *This document must be completed in its entirety and returned by February 7, 2022.*

If the agency determines that corrected data addressing one or more identified issues can be in a timely manner, the agency must coordinate the submission of that correction with the Management Team as described in the communication accompanying this document. *All corrections must be complete by February 21, 2022.*

When this template has been completed in its entirety, it should be returned by the FAST management team as a reply to its original transmittal or to:
Ron Stewart, FAST Support Team Lead
Idaho National Laboratory
ron.stewart@inl.gov

Measure 1: Inventory Consistency/Completeness
This metric identifies differences greater than 10% in reported fleet inventory relative to the submission, particularly if not supported by corresponding acquisitions and disposals, or of significant discrepancies. This metric is evaluated for each of the following fleet segments:

- Overall fleet
- Foreign subset of fleet
- Domestic subset of fleet
- Law enforcement (LE) subset of fleet
- Emergency response (ER) subset of fleet
- Armored subset of fleet
- GSA leased subset of fleet
- Commercially leased subset of fleet
- Agency owned subset of fleet
- Light-duty (LD) vehicle subset of fleet
- Medium-duty (MD) vehicle subset of fleet
- Heavy-duty (HD) vehicle subset of fleet

Organization Overall Score: 97%

Vehicle Class & Quantity	Vehicle Attributes	Ownership Characteristics	Special Characteristics	Operational & Cost Data	Fuel Data	Total
LEVA	0	100%	100%	100%	100%	100%
Sedan/Mini Vans	800	100%	100%	100%	100%	100%
Ambulances	0	100%	100%	100%	100%	100%
Buses	0	100%	100%	100%	100%	100%
LD 4x2	201	100%	100%	100%	100%	100%
LD 4x4	284	100%	100%	100%	100%	100%
MD	27	100%	100%	100%	100%	100%
HD	1	100%	100%	100%	100%	100%
Total	1033	100%	100%	100%	100%	100%

Business Rule Section

Vehicle Type & Quantity	OC-1.8	OC-1.9	OC-6.8	OC-6.9	OC-7.8	OC-8.4	OC-8.8	OC-10.8	OC-11.8	OC-12.7	OC-12.8
MD SUV	0	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MD Van (Passenger)	8	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MD Van (Cargo)	1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MD Pickup	13	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MD Other	5	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Vehicles Failing Flag Rule

OC-6.6 - Miles Traveled: Must fall within reasonable ranges specified by vehicle class; lower limit will only be checked for vehicles in inventory 6 or more months of the year for which data is being reported

Show: 25 entries

#	Fleet	Vehicle ID	Model	Make	Model	Details
1	047	047-10A20F0AFC190486	2012	CHEVROLET	CO3300	Vehicle Class: MD; Miles Traveled: 191; Reasonable Minimum: 600; Reasonable Maximum: 40,000
2	047	047-10A20F0G0K1342024	2019	CHEVROLET	CO3300	Vehicle Class: MD; Miles Traveled: 46; Reasonable Minimum: 600; Reasonable Maximum: 40,000
3	047	047-10A20F0F0S1092345	2018	CHEVROLET	CO3300	Vehicle Class: MD; Miles Traveled: 122; Reasonable Minimum: 600; Reasonable Maximum: 40,000
4	047	047-10A20F0F0B1315777	2016	CHEVROLET	CO3300	Vehicle Class: MD; Miles Traveled: 226; Reasonable Minimum: 600; Reasonable Maximum: 40,000

Showing 1 to 4 of 4 entries

Previous Next

FAST FY 2021 Agency Data Quality Management Score

The FAST Management Team assigns each reporting agency/organization a data quality management score following the completion of the annual reporting and review cycle. This data quality management score summarizes a broad group of metrics covering different aspects of consistency and reasonability of the information submitted for each fleet vehicle and is prorated by the number of vehicles reported, yielding a concerns-per-vehicle (CpV) metric. In general, lower scores represent fewer identified potential concerns and better data.

In addition, the FAST Management Team identifies any areas of particular concern from the post-submission review, DOE FEMPA compliance impact review for EPA-covered/scorecard agencies, and the CpV determination process. These high-priority areas are listed below for agency attention in subsequent reporting cycles.

Questions on the specific measures feeding the CpV metric, the compliance impact review, or the identified high-priority areas can be directed to the FAST Support Team (FASTsupport@inl.gov).

Agency: [Redacted]

- FY 2021 CpV: 0.16 (9 concerns identified on 56 reported vehicles)
 - o Down (improved) 0.34 from prior year
 - o Below (better than) fleet-wide CpV of 0.60
 - o CpV score can range from 0 (no concerns identified) to 25
- High priority items for agency attention
 - o M8 (from CpV): Use of "placeholder" or estimated values for key vehicle attributes; agency should continue efforts to ensure that actual (rather than estimated) values for all vehicles are reported
 - o Overall: Agency should continue efforts to maintain quality and completeness of fleet data submission

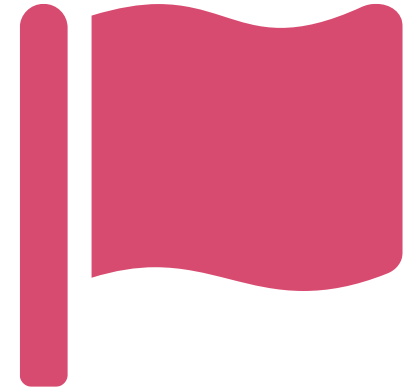
Notes

- Measures M8 and M7e adjusted in final CpV score based on agency response(s) to feedback provided by the FAST Management Team during the post-submission review process

FAST FY 2021 Agency Data Quality Management Score
Prepared: 14-Jun-2022

Understand the intent & role of the validation flags

- **Intent:** Identify vehicles/vehicle attributes that fall outside “expected” or “typical”
 - Inform agency of possible quality concerns
 - Provide opportunity to investigate and correct before finalizing submission
- **Role:** Some flags factor into data quality metric
- **Key points:**
 - Flags should be investigated and understood
 - Not everything flagged needs to be corrected



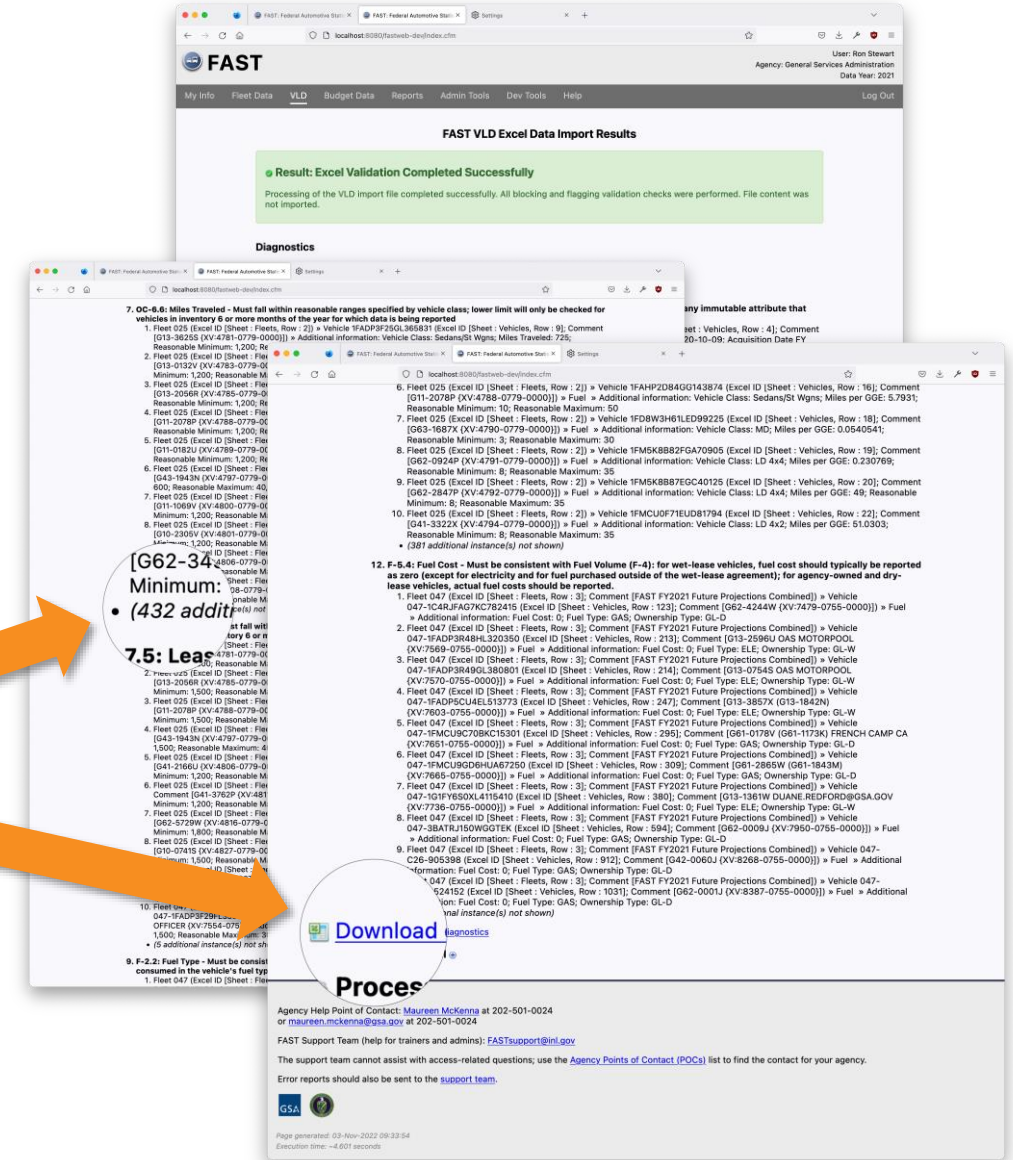
Understand the intent & role of the validation flags: Flags factoring into FAST's data quality metric

- **OC-1.5**: Inconsistent (decreasing) acquisition cost compared to prior year submission
- **F-2.2**: Inconsistent fuel consumption for vehicle fuel type/configuration
- F-2.3: Suspect B100 consumption w/o accompanying DSL consumption
- F-2.4: PHEV missing ELE consumption
- **F-4.6**: Suspect fuel efficiency based on vehicle miles and fuel consumption (related to DQM measure 6)
- F-5.5: Suspect fuel cost per GGE
- OW-1.3: Vehicles with acquisition date in current FY which also appeared in prior year submission (DQM measure 7a)
- OW-1.4: Vehicles with acquisition date in prior FY which were missing from prior year submission (DQM measure 7b)
- OW-4.4: Vehicles with disposal date in prior year submission also reported in current year submission (DQM measure 7c)
- **A-1.5**: Changes to typically-static vehicle attributes (DQM measure 7e)

Among top 5 concerns for the overall fleet for FY 2021

Load and validate data in FAST

- Resolve any blocking validation failures
 - Flagging validation checks are run only if no blocking validation checks fail
- Use validation diagnostics to identify and investigate any widespread issues
 - Widespread: impacting all or many vehicles
 - Validation failures displayed and available for download
- Import!
 - FAST's review tools need the data loaded (not just validated)

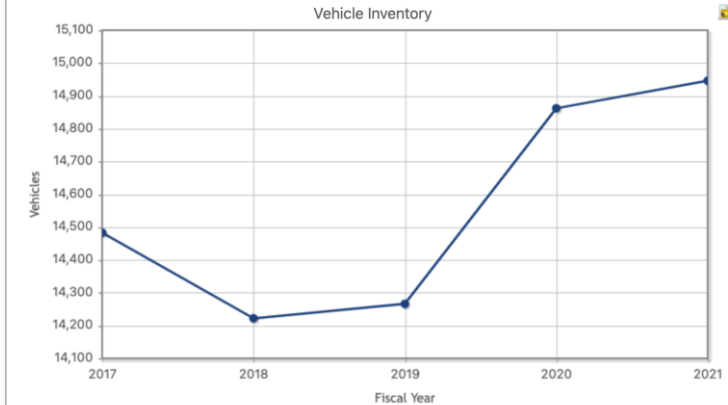


Use review tools available in FAST: Data Quality & Consistency Report

- High-level trends of inventory, costs, miles, fuel consumption
 - Useful for identifying unexpected gaps or changes in fleet data
- Comparisons of key metrics for consistency of changes
- Useful for looking at entire fleet or specific sub-sets of vehicles:
 - LE, emergency, armored, foreign vehicles

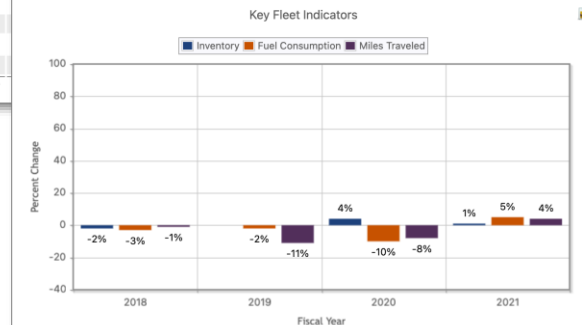
1. Historical Data Trends

1a. Vehicle Inventory



Vehicle Type	Year				
	2017	2018	2019	2020	2021
Sedans/St Wgns	847	793	750	762	711
LSEVs	0	1	0	0	9
Ambulances	58				
Buses	169				
LD Trucks 4x2	3,427				
LD Trucks 4x4	3,436				
MD Vehicles	4,285				
HD Vehicles	2,261				
Total:	14,483				


1b. Year-to-Year Changes in Key Fleet Indicators




Fleet Indicator	Year									
	2017		2018		2019		2020		2021	
	Qty	% Chg	Qty	% Chg	Qty	% Chg	Qty	% Chg	Qty	% Chg
Inventory	14,483	-	14,222	-2%	14,266	0%	14,862	4%	14,946	1%
Fuel Consumption	7,329,488	-	7,116,348	-3%	6,995,140	-2%	6,315,561	-10%	6,649,217	5%
Miles Traveled	83,866,188	-	83,171,849	-1%	74,401,094	-11%	68,178,389	-8%	71,119,967	4%

Use review tools available in FAST: Data Call Summary Report

- Tabular companion to the Data Quality & Consistency Report
- Tables summarizing key metrics *by fleet* and comparing to prior year
 - For agencies with extensive reporting hierarchies, useful for identifying missing data
- Tables can be re-sorted to find significant changes

1. Overall Inventory Comparison							
Export to Excel: 							
#	Name	Inv 2020	Inv 2021	Chg	% Chg	Derived 2021 Inv Delta	Cmp
1		17,812	18,124	312	1.75 %	(3)	Complete
2		7,641	7,496	(145)	(1.90) %	(263)	Complete
3		4,273	4,213	(60)	(1.40) %	316	Complete
4		2,766	2,778	12	0.43 %	(5)	Complete
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
TOTAL FOR ALL REPORTING FLEETS							

9. Mileage Comparison							
Export to Excel: 							
#	Name	Miles 2020	Miles 2021	Miles Chg	Miles % Chg		Cmp
1		---	17,643	---	---		Complete
2		354,440	54,312	(300,128)	(84.68) %		Complete
3		293,109	48,983	(244,126)	(83.29) %		Complete
4		123,279	26,258	(97,021)	(78.70) %		Complete
5		2,130	600	(1,530)	(71.83) %		Complete
6		297,509	95,391	(202,118)	(67.94) %		Complete
7		3,627,197	1,341,571	(2,285,626)	(63.01) %		Complete
8		41,868	16,779	(25,089)	(59.92) %		Complete
9		1,115,752	607,906	(507,846)	(45.52) %		Complete
10		57,395	36,818	(20,577)	(35.85) %		Complete
11		5,469,900	4,135,952	(1,333,948)	(24.39) %		Complete
12		162,251	135,943	(26,308)	(16.21) %		Complete
13		7,236,576	6,357,597	(878,979)	(12.15) %		Complete
14		42,878,151	38,483,587	(4,394,564)	(10.25) %		Complete
15		49,547	48,670	(877)	(1.77) %		Complete
16		8,709	8,709	0	0.00 %		Complete
17		42,385,507	42,422,647	37,140	0.09 %		Complete
18		44,546,843	44,877,788	330,945	0.74 %		Complete
19		5,375,837	5,661,015	285,178	5.30 %		Complete
20		1,092,898	1,160,667	67,769	6.20 %		Complete
21		135,362,673	149,025,754	13,663,081	10.09 %		Complete
TOTAL FOR ALL REPORTING FLEETS		290,481,571	294,564,590	4,083,019	1.41 %		100.00 %

Use review tools available in FAST: Vehicle Flagging Rules Summary

- Interactive report that helps understand which flags are being generated and on which vehicles
- Explore from top-level summary down to individual vehicle
- A quick demo!

Vehicle Flagging Rules Summary: General Services Administration

Organization Overall Score: 97%

Vehicle Class & Quantity	Business Rule Section					Total
	Vehicle Attributes	Ownership Characteristics	Special Characteristics	Operational & Cost Data	Fuel Data	
LSEVs	0	--	--	--	--	--
Sedans/St Wgns	550	99%	98%	100%	96%	96%
Ambulances	0	--	--	--	--	--
Buses	0	--	--	--	--	--
LD 4x2	201	100%	98%	100%	96%	97%
LD 4x4	254	99%	98%	100%	97%	97%
MD	27	99%	96%	100%	95%	92%
HD	1	100%	100%	100%	100%	100%
Total	1033	99%	98%	100%	96%	97%

Vehicle Type & Quantity	Business Rule						
	F-2.2	F-2.3	F-2.4	F-4.5	F-4.6	F-5.4	F-5.5
MD SUV	0	--	--	--	--	--	--
MD Van (Passenger)	8	100%	100%	100%	100%	38%	100%
MD Van (Cargo)	1	100%	100%	100%	100%	100%	100%
MD Pickup	13	100%	100%	100%	100%	38%	100%
MD Other	5	80%	100%	100%	100%	80%	100%

Vehicles Failing Flag Rule

F-4.6 - Fuel Volume: Must fall within reasonable range in combination with Miles Traveled (OC-6)

Show entries Search:

#	Fleet	Vehicle ID	Model Year	Make	Model	Details	Form
1	025	1FTBF2B62MED59511	2021	FORD	F250	Vehicle Class: MD; Miles per GGE: 0.847826; Reasonable Minimum: 3; Reasonable Maximum: 30	
2	025	3C63RRGL6LQ254245	2020	RAM	3500	Vehicle Class: MD; Miles per GGE: 0.0415162; Reasonable Minimum: 3; Reasonable Maximum: 30	
3	047	047-1FT7X2B68FEA47747	2015	FORD	F250	Vehicle Class: MD; Miles per GGE: 49.4; Reasonable Minimum: 3; Reasonable Maximum: 30	
4	047	047-1FTBF2B66GEA32565	2016	FORD	F250	Vehicle Class: MD; Miles per GGE: 42.0833; Reasonable Minimum: 3; Reasonable Maximum: 30	
5	047	047-1FTWF3B5XAE11286	2010	FORD	F350	Vehicle Class: MD; Miles per GGE: 0; Reasonable Minimum: 3; Reasonable Maximum: 30	
6	047	047-1GC1KUE86FF635671	2015	CHEVROLET	K2500HD	Vehicle Class: MD; Miles per GGE: 99.5835; Reasonable Minimum: 3; Reasonable Maximum: 30	
7	047	047-1GC1KUEG0FF167427	2015	CHEVROLET	K2500HD	Vehicle Class: MD; Miles per GGE: 1.52778; Reasonable Minimum: 3; Reasonable Maximum: 30	
8	047	047-1GC4KYC80FF629887	2015	CHEVROLET	K3500	Vehicle Class: MD; Miles per GGE: 34.8397; Reasonable Minimum: 3; Reasonable Maximum: 30	

Showing 1 to 8 of 8 entries Previous Next

Use review tools available in FAST: Query Tool

- Several valuable query types:
 - Vehicles
 - Fuel
 - Validation Flags
- Export to Excel for further analysis

The screenshot displays the FAST Query Tool interface. The top navigation bar includes links for My Info, Fleet Data, VLD, Budget Data, Reports, Admin Tools, Dev Tools, and Help. The user is identified as Ron Stewart, Agency: General Services Administration, Data Year: 2022. The main section is titled 'Query Results' and shows the 'Validation Flags' query. A 'Save Query' form is visible, with fields for Type (Validation Flags), Name, and Description. Below the form are buttons for 'Save Query', 'Modify Query', 'Run Query', and 'Reset'. The 'Run Query' button is highlighted. The results are displayed in a table with columns for Report Year, Agency Abbreviation, and various 'Sum of # Flags' for different vehicle types. The table is filtered for 'Report Year: 2021' and 'Agency Abbreviation: ALL'. The results are displayed in a grid format, with a 'Grand Total' row at the bottom.

Row	Report Year	Agency Abbreviation	Sum of # Flags
1	2021	USPS	17
2	2021	USPS	11
3	2021	USAF	9
4	2021	USAF	19
5	2021	DHS	2
6	2021	USAF	1
7	2021	USPS	11
8	2021	DHS	1
9	2021	DOJ	1
10	2021	USAF	1
11	2021	DOJ	1
12	2021	DOJ	1
13	2021	ARMY	1
14	2021	USAF	1
15	2021	USAF	1
16	2021	DOJ	1
17	2021	ARMY	1
18	2021	DHS	1
19	2021	USGA	1
20	2021	NAVY	1
21	2021	NAVY	1
22	2021	NAVY	1
23	2021	DOJ	1
24	2021	USAF	1
25	2021	VA	1
26	2021	VA	1
27	2021	VA	1
28	2021	VA	1
29	2021	VA	1
30	2021	VA	1
31	2021	VA	1
32	2021	VA	1
33	2021	VA	1
34	2021	VA	1
35	2021	VA	1
36	2021	VA	1
37	2021	VA	1
38	2021	VA	1
39	2021	VA	1
40	2021	VA	1
41	2021	VA	1
42	2021	VA	1
43	2021	VA	1
44	2021	VA	1
45	2021	VA	1
46	2021	VA	1
47	2021	VA	1
48	2021	VA	1
49	2021	VA	1
50	2021	VA	1
51	2021	VA	1
52	2021	VA	1

Designate submission as complete

- Triggers notification to the FAST support team
- FAST support team can generate a preliminary review using the same process as the official post-data call review
 - We try to get these preliminary reviews back to the agency lead quickly
 - Goal is to give agency leads as much time as possible to investigate and address any significant quality issues

The screenshot shows the FAST web application interface. At the top, the FAST logo is on the left, and user information (User: Ron Stewart, Agency: Department of Energy, Data Year: 2022) is on the right. A navigation bar contains links: My Info, Fleet Data, VLD (underlined), Budget Data, Reports, Admin Tools, Dev Tools, Help, and Log Out. The main content area is titled "Agency Data Submission Status" and "Department of Energy - FY 2022". Below this is a section titled "Agency Vehicle Data Submission Status" with a minus icon. The text instructs users to designate their organization's FY 2022 vehicle data submission as either complete or incomplete. It defines "Incomplete" as not yet finished reporting and reviewing, and "Complete" as finished reporting and reviewing. At the bottom, there is a "Status:" label with two radio buttons: "Incomplete" (selected) and "Complete". Below the radio buttons are three buttons: "Update Vehicle Data Submission Status", "Cancel", and "Reset Form".

FAST

User: Ron Stewart
Agency: Department of Energy
Data Year: 2022

My Info Fleet Data VLD Budget Data Reports Admin Tools Dev Tools Help Log Out

Agency Data Submission Status

Department of Energy - FY 2022

Agency Vehicle Data Submission Status

Use this form to designate your organization's FY 2022 **vehicle data submission** as either complete or incomplete:

Incomplete
A status of "Incomplete" indicates that your organization has not yet finished reporting and reviewing your organization's vehicle data for FY 2022. While the FAST "actuals" data call is open and your submission is designated as "Incomplete", users from your organization will be able to continue working with your vehicle data submission.

Complete
A status of "Complete" indicates that your organization has finished reporting and reviewing your organization's vehicle data for the designated reporting year, and that the submitted data represents a complete and correct submission for your organization's vehicle fleet. After your submission has been designated as "Complete", users from your organization will no longer be able to change your submission. If you or users from your organization need to update or correct any aspect of your vehicle data submission after it has been designated as "Complete" (and assuming the FAST data call is still open), you will need to change the submission status to "Incomplete".

Status: ☒ Incomplete ☐ Complete

Update Vehicle Data Submission Status Cancel Reset Form

Review feedback from FAST team

- Same review process we use following close of data call to identify potential quality concerns
 - Written summary
 - Per-vehicle detail for review measures 6-8
 - First look at measure 8: possible place-holder vehicle attributes
- Enables agency leads to begin investigation into concerns that feed data quality metric
 - Agencies *may* be able to correct some during data call window
 - Longer investigation window can help agency provide detailed responses to the review feedback

FAST Management Team Review of FY 2021 Agency Data Submission

Prepared For: [Redacted]
Date: December 15, 2021

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Ron Stewart, FAST Technical Team Lead
Idaho National Laboratory
ron.stewart@inl.gov

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This metric identifies differences greater than 10% in reported fleet inventory relative to the prior year's submission, particularly if not supported by corresponding acquisitions and disposals, or other significant discrepancies. This metric is evaluated for each of the following fleet segments:

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- Heavy-duty (HD) vehicle subset of fleet

FAST Management Team Review of FY 2021 Fleet Data Submission
Prepared For: [Redacted]
Date: December 15, 2021

DRAFT -- DO NOT DISTRIBUTE

Agency	Year	Make	Model	Class	Category	Count	Count	Count	Count
						2020	2021	2020	2021
31	AO	1998	CHEVROLET	K2500	LD	LD 4x4	LD Pickup 4x4		
34	AO	2006	CHEVROLET	2500HD	MD	MD Pickup	MD Pickup		
35	AO	2016	CHEVROLET	Cosmo	LD	LD 4x4	LD Minivan 4x2 (Passenger)		
38	AO	2010	CHEVROLET	Cosmo	LD	LD 4x4	LD Pickup 4x4		
37	AO	1994	GMC	Sierra X3500	LD	LD 4x4	LD Pickup 4x4		
38	GL-W	2019	GMC	ACADABLE	LD	LD 4x4	LD SUV 4x4		
39	GL-W	2015	CHEVROLET	Tahoe	LD	LD 4x4	LD SUV 4x4		
40	AO	2019	INTERNATIONAL	7000	LD	LD 4x4	LD Pickup 4x4		
41	AO	2009	JEEP	Patrol	LD	LD 4x4	LD SUV 4x4		
41	AO	2011	MINI	Club13	MD	MD	MD		
43	GL-W	2016	DODGE	GRACAVAN	LD	LD 4x2	LD Minivan 4x2 (Passenger)		
43	GL-W	2016	DODGE	GRACAVAN	LD	LD 4x2	LD Minivan 4x2 (Passenger)		
44	AO	2016	DODGE	Ram	MD	MD	MD Other		
45	GL-W	2016	RAM	5500	MD	MD	MD Pickup		
46	GL-W	2015	MTSUBISHI	OUTLANDER	LD	LD 4x4	LD SUV 4x4		
48	GL-W	2014	HYUNDAI	SONATAHYBR	LD	LD 4x4	LD Sedan/ST Wgn		
50	AO	2013	FREIGHTLINER	Sprinter	MD	MD	MD Van (Cargo)		

Other considerations...

- Don't change data just to minimize flags!
- If you correct data based on investigating flags, ensure the correction is made in your MIS
 - Ensures consistency between agency MIS and FAST
 - Prevents same flag being generated in subsequent years
- Where you validate may matter: if you're validating data in the FAST Sandbox, ensure your prior year data is present there
 - Key group of flags look at current year vs prior year versions of vehicles



Need help?

FAST Support Team

FASTsupport@inl.gov

FAST

 <https://fastweb.inl.gov/>

FAST Sandbox

 <https://fastweb.inl.gov/sandbox/>

FAST Help

 <https://fastweb.inl.gov/help/>



Questions

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