

U.S. Department of Commerce

**Alternative Fuel
Vehicle Report**

**Fiscal Year
2015**



Fleet Alternative Fuel Vehicle Report for Fiscal Year 2015

This report summarizes the U.S. Department of Commerce (DOC) fiscal year (FY) 2015 performance in meeting the requirements of Executive Order (EO) 13423, (EPAAct; 42 US Code 13211-13219) as amended by the Energy Conservation Reauthorization Act of 1998 (ECRA; Public Law 105-388) and the EPAAct of 2005 (Public Law 109-58); and the Energy Independence and Security Act (EISA; Public Law 110-140) of 2007 (Section 141).

Exhibit 1 summarizes DOC progress in meeting the EO and EPAAct requirements. Appendices A and B reflect DOC vehicle acquisitions and projected acquisitions for FYs 2015 – 2017 and fuel consumption data, respectively.

Exhibit 1 – DOC Performance – EPAAct/EO 13423 Requirements

Authority/Mandate	Performance Measure	Requirement	FY 2015 DOC Performance
EPAAct of 1992	Alternative Fuel Vehicle (AFV) acquisitions	75% of the 74 covered ¹ vehicle acquisitions must be AFVs	Accumulated 135 AFV credits (182% of covered acquisitions)
EO 13423	Reduce annual covered petroleum consumption	Reduce petroleum consumption of covered ² vehicles by 2% annually by the end of FY 2015 from FY 2005 baseline of 1,211,082 Gasoline Gallon Equivalents (GGEs)	Consumed 732,489 GGEs, a decrease of 39.5% from baseline – far exceeding the goal of a 10% reduction
EO 13423	Increase annual alternative fuel (AF) consumption	Equal or exceed the FY 2015 AF usage target of 2,824 GGEs, based on a compounded 10 percent annual rate of increase over the FY 2005 baseline of 1,089 GGEs	Used 80,096 GGEs, which far exceeds the 2015 target

¹ By definition, the term “covered” relative to vehicle acquisitions includes all domestic non-law enforcement (non-LE), light-duty (LD) vehicles operated in a metropolitan statistical area (MSA) and acquired by lease or purchase in FY 2015.

² By definition, the term “covered” relative to petroleum fuel reduction includes all domestic, non-LE vehicles of any weight and operating in or out of an MSA.

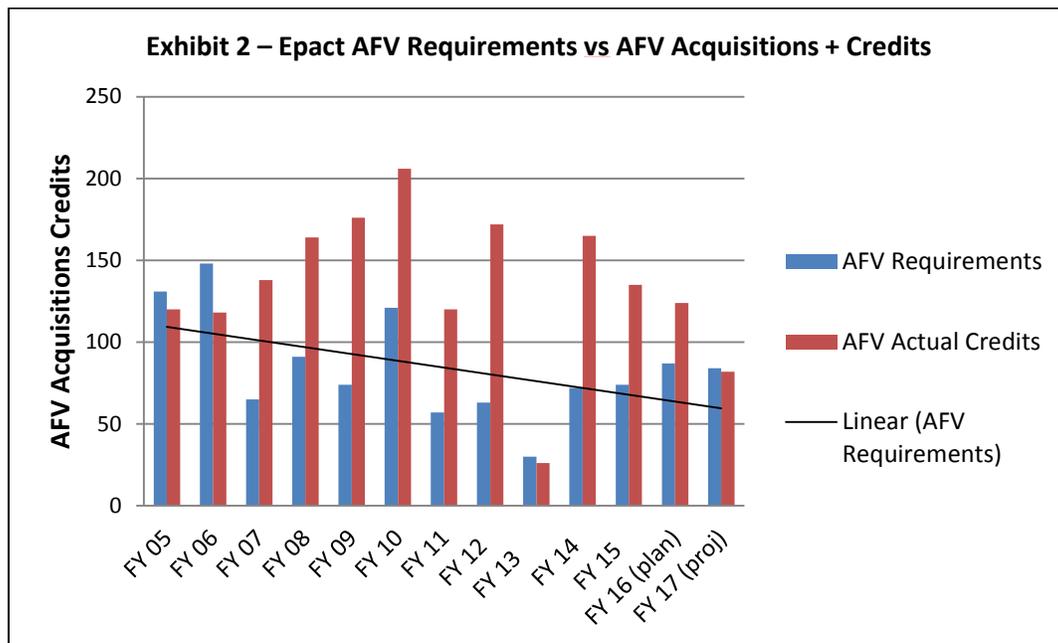
EPAct AFV Acquisition Compliance

DOC exceeded EPAct AFV acquisition requirements in FY 2015 as follows:

- DOC acquired 74 EPAct-covered vehicles (as shown in Appendix A).
- DOC accumulated 135 AFV credits through the acquisition of 74 EPAct-covered vehicles
- The resulting AFV percentage of covered vehicle acquisitions was 182% (135 AFV credits/74 EPAct-covered vehicles).

AFV Acquisitions

DOC has successfully met the EPAct requirement every year (see Exhibit 2), as reflected in the Federal Automotive Statistical Tool (FAST), due to DOC's general policy of acquiring AFVs for all covered vehicles.



Appendix A contains FAST data for the numbers and types of vehicles that DOC leased or purchased, as well as the AFV acquisition details in FY 2015, planned for FY 2016, and projections for FY 2017.

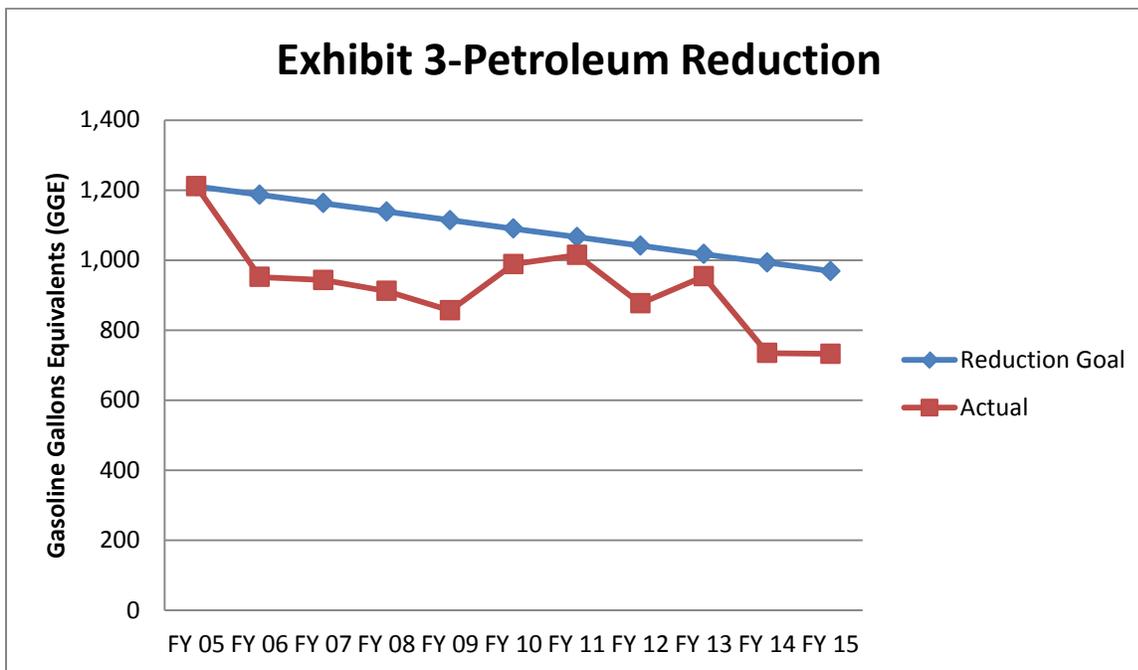
EO 13423 Compliance – Petroleum Use Reduction and AF Use Increase

In FY 2015, DOC continued to pursue the petroleum reduction targets specified in EO 13423, which calls for each Federal agency with 20 or more vehicles operating in the United States to:

- Reduce vehicular petroleum consumption (for domestic, non-LE vehicles of any weight and operating in or out of an MSA) by 2% annually through FY 2015 compared to FY 2005.
- Increase vehicular non-petroleum based fuel (i.e., alternative fuel) consumption by 10% compounded annually.
- Use plug-in hybrid electric vehicles (PHEV) when they are commercially available at a cost reasonably comparable, on the basis of life-cycle cost, to non-PHEVs.

Petroleum Reduction

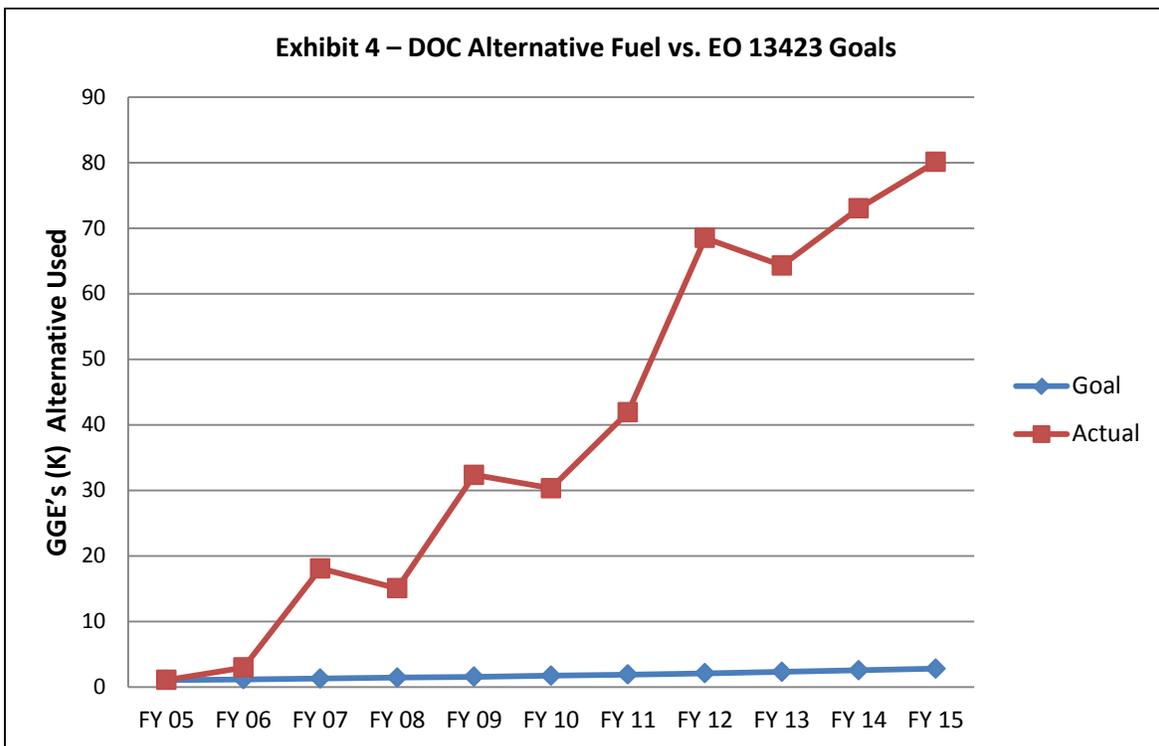
DOC's covered petroleum fuel consumption in FY 2015 was 732,489 GGEs, a 39.5% reduction from the FY 2005 baseline of 1,211,082 GGEs, as shown in Exhibit 3. This total is well below the 10% reduction target for FY 2015. Consequently, DOC was fully compliant with the petroleum use reduction requirement in FY 2015.



Appendix B offers a detailed look at DOC's petroleum usage compared to DOE's established targets.

Alternative Fuel Use

EO 13423 requires each Federal agency to increase annual AF consumption by 10% per year (compounded annually) through the end of FY 2015, based on an FY 2005 baseline. The FY 2005 baseline for DOC is 1,089 GGEs, so the target for DOC was 2,824 GGEs for FY 2015. The actual AF consumption in FY 2015 was 80,096 GGEs, far exceeding the established goal as shown in Exhibit 4. This increase reflects the ongoing efforts by DOC to provide guidance to all DOC Bureaus that AF is to be used in flex-fuel and bi-fuel AFVs, as available. DOC has also identified all AF stations located within the vicinity of DOC vehicle fleets and notified Bureau Fleet Managers of the opening of new AF stations. Appendix B represents AF use data for the DOC fleet in FY 2015.³



³ In the FY 2013 Report, the FY 13 AF data was under reported by approximately 34,000 GGE; this chart is updated to reflect the actual FY 2013 data.

Summary

As noted above, DOC has attained and exceeded the targets detailed in the EPC Act 1992 and the EO 13423 for FY 2015 and has full confidence that it will continue to do so in the years ahead. The DOC continues to make significant strides in improving the management of its vehicle fleet and its compliance with environmental regulations. DOC has been able to exceed the AF use targets, but the lack of AF infrastructure continues to limit this effort. In light of this challenge, DOC has acquired low greenhouse gas (LGHG) vehicles and is placing these vehicles in locations where AF is not available, thus reducing our 701 waiver requests. Hybrid acquisitions will continue to be focused in locations where no AF is available. Lastly, DOC has encouraged bureaus to contact local jurisdictions who use private stations for AF to consider forming a partnership.⁴

⁴ 701 waivers are granted to AFVs that are housed more than 5 miles or a 15-minute drive from an AF refueling station.

2015 AFV Report: Actual Data (FY2015)

1. Actual Light-Duty Vehicle Acquisitions and Exemptions						
	Acquisitions					
	Leased	Purchased	Total			
Total Light-Duty Vehicle Acquisitions	183	19	202			
Fleet Exemptions: Fleet Size	0	0	0			
Fleet Exemptions: Foreign	0	18	18			
Fleet Exemptions: Geographic	5	0	5			
Fleet Exemptions: Non-MSA Operation	0	0	0			
Vehicle Exemptions: LE Vehicle	27	0	27			
Vehicle Exemptions: Non-covered Vehicle	0	0	0			
Vehicle Exemptions: Non-MSA Operation	78	0	78			
Total EPAAct-Covered Vehicles	73	1	74			
2. Actual Alternative Fuel Vehicle Acquisition Detail						
Vehicle Type	Fuel	LE	Acquisitions			EPAAct Credits
			Lease	Purchase	Total	
<i>Light Duty Vehicles</i>						
Sedan/St Wgn Compact	E85 FF	No	2	0	2	2
Sedan/St Wgn Compact	E85 FF	Yes	2	0	2	0
Sedan/St Wgn Compact	GAS HY ³	No	8	0	8	8
Sedan/St Wgn Midsize	E85 FF	No	4	0	4	4
Sedan/St Wgn Midsize	E85 FF	Yes	7	0	7	0
Sedan/St Wgn Subcompact	E85 FF	No	1	0	1	1
Sedan/St Wgn Subcompact	ELE DE	No	1	0	1	1
Sedan/St Wgn Subcompact	GAS HY ³	No	5	0	5	5
Sedan/St Wgn Subcompact	GAS PH	No	2	0	2	2
LD Minivan 4x2 (Passenger)	E85 FF	No	26	0	26	26
LD Minivan 4x2 (Passenger)	E85 FF	Yes	1	0	1	0
LD Pickup 4x2	E85 FF	No	6	0	6	6
LD Pickup 4x2	E85 FF	Yes	1	0	1	0
LD SUV 4x2	E85 FF	No	5	0	5	5
LD Van 4x2 (Passenger)	E85 FF	No	3	0	3	3
LD Pickup 4x4	E85 FF	No	10	0	10	10

LD SUV 4x4	E85 FF	No	27	0	27	27
LD SUV 4x4	E85 FF	Yes	5	0	5	0
<i>Medium Duty Vehicles</i>						
MD Other	E85 FF	No	7	0	7	7
MD Pickup	E85 FF	No	18	0	18	18
MD Van (Cargo)	E85 FF	No	6	0	6	6
MD Van (Passenger)	E85 FF	No	4	0	4	4
Totals:			151	0	151	135

3. Actual EPA Act Acquisition Credits Summary

Base AFV Acquisition Credits:	135
Zero Emission Vehicle (ZEV) Credits:	0
Dedicated Light Duty AFV Credits:	0
Dedicated Medium Duty AFV Credits:	0
Dedicated Heavy Duty AFV Credits:	0
Biodiesel Fuel Usage Credits: ⁴	0
Total EPA Act Credits:	135
Overall EPA Act Compliance Percentage:	182 %

2015 AFV Report: Planned Data (FY2016)

1. Planned Light-Duty Vehicle Acquisitions and Exemptions

	Acquisitions		
	Leased	Purchased	Total
Total Light-Duty Vehicle Acquisitions	175	10	185
Fleet Exemptions: Fleet Size	0	0	0
Fleet Exemptions: Foreign	0	10	10
Fleet Exemptions: Geographic	0	0	0
Fleet Exemptions: Non-MSA Operation	0	0	0
Vehicle Exemptions: LE Vehicle	9	0	9
Vehicle Exemptions: Non-covered Vehicle	0	0	0
Vehicle Exemptions: Non-MSA Operation	79	0	79
Total EPA Act-Covered Vehicles	87	0	87

2. Planned Alternative Fuel Vehicle Acquisition Detail

Vehicle Type	Fuel	LE	Acquisitions			EPA Act Credits
			Lease	Purchase	Total	
<i>Light Duty Vehicles</i>						
Sedan/St Wgn Compact	E85 FF	No	6	0	6	6
Sedan/St Wgn Compact	E85 FF	Yes	2	0	2	0
Sedan/St Wgn Compact	GAS HY ³	No	2	0	2	2
Sedan/St Wgn Compact	GAS PH	No	1	0	1	1
Sedan/St Wgn Midsize	E85 FF	No	6	0	6	6
Sedan/St Wgn Midsize	E85 FF	Yes	2	0	2	0
Sedan/St Wgn Subcompact	E85 FF	No	2	0	2	2
LD Minivan 4x2 (Cargo)	E85 FF	No	8	0	8	8
LD Minivan 4x2 (Passenger)	E85 FF	No	25	0	25	25
LD Pickup 4x2	E85 FF	No	7	0	7	7
LD SUV 4x2	E85 FF	No	2	0	2	2
LD SUV 4x2	GAS HY ³	No	1	0	1	1
LD Van 4x2 (Cargo)	E85 FF	No	1	0	1	1
LD Van 4x2 (Passenger)	E85 FF	No	6	0	6	6
LD Pickup 4x4	E85 FF	No	9	0	9	9
LD SUV 4x4	E85 FF	No	19	0	19	19
LD SUV 4x4	E85 FF	Yes	2	0	2	0
LD Van 4x4 (Cargo)	E85 FF	No	3	0	3	3
<i>Medium Duty Vehicles</i>						
MD Other	E85 FF	No	4	0	4	4
MD Pickup	E85 FF	No	2	0	2	2
MD SUV	E85 FF	No	2	0	2	2
MD Van (Cargo)	E85 FF	No	16	0	16	16
MD Van (Passenger)	E85 FF	No	2	0	2	2
Totals:			130	0	130	124
3. Planned EPA Act Acquisition Credits Summary						
Base AFV Acquisition Credits:						124
Zero Emission Vehicle (ZEV) Credits:						0
Dedicated Light Duty AFV Credits:						0
Dedicated Medium Duty AFV Credits:						0
Dedicated Heavy Duty AFV Credits:						0
Biodiesel Fuel Usage Credits: ⁴						0

Total E Pact Credits:	124
Overall E Pact Compliance Percentage:	143 %

2015 AFV Report: Projected Data (FY2017)

1. Projected Light-Duty Vehicle Acquisitions and Exemptions						
	Acquisitions					
	Leased	Purchased	Total			
Total Light-Duty Vehicle Acquisitions	147	10	157			
Fleet Exemptions: Fleet Size	0	0	0			
Fleet Exemptions: Foreign	0	10	10			
Fleet Exemptions: Geographic	0	0	0			
Fleet Exemptions: Non-MSA Operation	0	0	0			
Vehicle Exemptions: LE Vehicle	11	0	11			
Vehicle Exemptions: Non-covered Vehicle	0	0	0			
Vehicle Exemptions: Non-MSA Operation	52	0	52			
Total E Pact-Covered Vehicles	84	0	84			
2. Projected Alternative Fuel Vehicle Acquisition Detail						
Vehicle Type	Fuel	LE	Acquisitions			E Pact Credits
			Lease	Purchase	Total	
<i>Light Duty Vehicles</i>						
Sedan/St Wgn Compact	E85 FF	No	3	0	3	3
Sedan/St Wgn Compact	E85 FF	Yes	2	0	2	0
Sedan/St Wgn Compact	GAS HY ³	No	1	0	1	1
Sedan/St Wgn Midsize	E85 FF	No	1	0	1	1
Sedan/St Wgn Midsize	E85 FF	Yes	3	0	3	0
Sedan/St Wgn Midsize	GAS HY ³	No	1	0	1	1
Sedan/St Wgn Subcompact	E85 FF	No	3	0	3	3
LD Minivan 4x2 (Passenger)	E85 FF	No	22	0	22	22
LD Pickup 4x2	E85 FF	No	2	0	2	2
LD SUV 4x2	E85 FF	No	3	0	3	3
LD Van 4x2 (Passenger)	E85 FF	No	1	0	1	1
LD Pickup 4x4	E85 FF	No	10	0	10	10
LD SUV 4x4	E85 FF	No	14	0	14	14

LD SUV 4x4	E85 FF	Yes	3	0	3	0
LD SUV 4x4	GAS HY ³	No	1	0	1	1
LD Van 4x4 (Cargo)	E85 FF	No	3	0	3	3
<i>Medium Duty Vehicles</i>						
MD Other	E85 FF	No	8	0	8	8
MD Pickup	E85 FF	No	3	0	3	3
MD SUV	E85 FF	No	2	0	2	2
MD Van (Cargo)	E85 FF	No	3	0	3	3
MD Van (Passenger)	E85 FF	No	1	0	1	1
Totals:			90	0	90	82

3. Projected EPA Act Acquisition Credits Summary

Base AFV Acquisition Credits:	82
Zero Emission Vehicle (ZEV) Credits:	0
Dedicated Light Duty AFV Credits:	0
Dedicated Medium Duty AFV Credits:	0
Biodiesel Fuel Usage Credits: ⁴	0
Total EPA Act Credits:	82
Overall EPA Act Compliance Percentage:	98 %

2015 AFV Report: Forecast Data (FY2018)

1. Forecast Light-Duty Vehicle Acquisitions and Exemptions

	Acquisitions		
	Leased	Purchased	Total
Total Light-Duty Vehicle Acquisitions	187	10	197
Fleet Exemptions: Fleet Size	0	0	0
Fleet Exemptions: Foreign	0	10	10
Fleet Exemptions: Geographic	0	0	0
Fleet Exemptions: Non-MSA Operation	0	0	0
Vehicle Exemptions: LE Vehicle	36	0	36
Vehicle Exemptions: Non-covered Vehicle	0	0	0
Vehicle Exemptions: Non-MSA Operation	95	0	95
Total EPA Act-Covered Vehicles	56	0	56

2. Forecast Alternative Fuel Vehicle Acquisition Detail

Vehicle Type	Fuel	LE	Acquisitions			EPA Act Credits
			Lease	Purchase	Total	
<i>Light Duty Vehicles</i>						
Sedan/St Wgn Compact	E85 FF	No	2	0	2	2
Sedan/St Wgn Compact	GAS HY ³	No	6	0	6	6
Sedan/St Wgn Compact	GAS HY ³	Yes	1	0	1	0
Sedan/St Wgn Midsize	E85 FF	Yes	3	0	3	0
Sedan/St Wgn Subcompact	GAS HY ³	No	2	0	2	2
LD Minivan 4x2 (Passenger)	E85 FF	No	36	0	36	36
LD Pickup 4x2	E85 FF	No	6	0	6	6
LD SUV 4x2	E85 FF	No	3	0	3	3
LD SUV 4x2	GAS HY ³	No	2	0	2	2
LD Van 4x2 (Cargo)	E85 FF	No	2	0	2	2
LD Pickup 4x4	E85 FF	No	15	0	15	15
LD SUV 4x4	E85 FF	No	30	0	30	30
LD SUV 4x4	E85 FF	Yes	4	0	4	0
LD SUV 4x4	GAS HY ³	No	2	0	2	2
LD Van 4x4 (Cargo)	E85 FF	No	5	0	5	5
<i>Medium Duty Vehicles</i>						
MD Other	E85 FF	No	4	0	4	4
MD Pickup	E85 FF	No	9	0	9	9
MD Van (Cargo)	E85 FF	No	7	0	7	7
MD Van (Passenger)	E85 FF	No	4	0	4	4
Totals:			143	0	143	135
3. Forecast EPA Act Acquisition Credits Summary						
Base AFV Acquisition Credits:						135
Zero Emission Vehicle (ZEV) Credits:						0
Dedicated Light Duty AFV Credits:						0
Dedicated Medium Duty AFV Credits:						0
Dedicated Heavy Duty AFV Credits:						0
Biodiesel Fuel Usage Credits: ⁴						0
Total EPA Act Credits:						135
Overall EPA Act Compliance Percentage:						241 %

Notes:

1. Highlighted cells show EAct credits granted for acquisition of law enforcement (LE) and emergency/emergency response (E/ER) vehicles. DOE has determined that credits will not be granted for acquisition of these vehicles beginning with FY2010 and in all years after FY2010. FAST users are advised to carefully review the role any such credits are playing in overall compliance with EAct's acquisition requirements for their organization(s).
2. For data presented above representing years prior to 2010, hypothetical compliance figures are shown that exclude any LE and/or E/ER acquisition credits to help FAST users quantify the extent to which those credits factor into the organization's compliance percentage.
3. For years prior to 2009, EAct acquisition credits were not granted for acquisition of vehicles with hybrid fuel configurations (e.g., gas-electric hybrid configurations). Beginning with 2009 and continuing forward for all subsequent years, vehicles with these fuel configurations are considered alternative fueled vehicles and corresponding credits are granted and shown, if appropriate, in the above tables.
4. EAct allows credits toward compliance to be granted for consumption of biodiesel fuel; one (1) credit toward compliance is granted for each 450 gallons of biodiesel consumed, with a maximum of 50% of an organization's credits toward compliance coming from biodiesel consumption.

Appendix B

Department of Commerce Fuel Use in FY 2015		
Fuel Type	Quantity	Unit
Biodiesel-B100	48	Gallons
CNG	1,462	Gallons @ 2,400 psi, 70°F
+62CNG	0	Hundred cu. ft.
Diesel	81,715	Gallons
E-85 (ethanol)	78,586	Gallons
Gasoline	650,581	Gallons
Methanol	0	Gallons
Propane	0	Gallons
B20	193	Gallons