

**U.S. Department of Veterans Affairs
Fleet AFV Program Report for Fiscal Year 2000
November 30, 2000**

This U.S. Department of Veterans Affairs Fleet AFV Program Report for Fiscal Year 2000 presents the Department's data on the number of alternative fuel vehicles (AFVs) acquired in fiscal year (FY) 2000, and its planned acquisitions and projections for FY 2001 and FY 2002. The report has been developed in accordance with the Energy Policy Act of 1992 (EPAAct) (42 U.S.C. 13211-13219) as amended by the Energy Conservation Reauthorization Act of 1998 (Public Law 105-388) (ECRA), and Executive Order 13149 (signed by the President in April 2000). Detailed vehicle acquisition tables are shown in the appendix.

Legislative Requirements

The **Energy Policy Act of 1992 (EPAAct)** requires that 75 percent of all covered light-duty vehicles acquired for Federal fleets in FY 1999 and beyond must be AFVs (where the fleets have 20 or more vehicles, are capable of being centrally fueled, and are operated in a metropolitan statistical area with a population of more than 250,000 based on the 1980 census). Certain emergency, law enforcement, and national defense vehicles are exempt from these requirements. EPAAct also sets a goal of using replacement fuels to displace at least 30 percent of the projected consumption of motor fuel in the United States annually by the year 2010. The **Energy Conservation and Reauthorization Act of 1998** amended EPAAct to allow one alternative fuel vehicle acquisition credit for every 450 gallons of pure biodiesel fuel consumed in vehicles over 8,500 pounds gross vehicle weight rating. "Biodiesel credits" may fulfill up to 50 percent of an agency's EPAAct requirements. The head of each Federal agency must also prepare and submit a report to Congress outlining the agency's AFV acquisitions and future plans by November 13th each year. **Executive Order 13149** directs Federal agencies operating a fleet of 20 or more vehicles within the United States to reduce their annual petroleum consumption by at least 20 percent by the end of FY 2005 (compared to FY 1999 levels) by using alternative fuels in AFVs more than 50 percent of the time, improving the average fuel economy of new light-duty petroleum-fueled vehicle acquisitions by 1 mpg by FY 2002 and 3 mpg by FY 2005, and using other fleet efficiency measures.

The Department of Veterans Affairs Approach to Compliance with EPAAct and E.O. 13149

To achieve compliance with the legislative mandates of EPAAct and E.O. 13149, the Department of Veterans Affairs will acquire 75 percent of new light-duty vehicles as AFVs, and use alternative fuel in these vehicles a majority of the time. The Department of Veterans Affairs will consider taking advantage of a new surcharge program that will add approximately \$10 monthly to the cost of every vehicle leased through the General Services Administration (GSA) to help cover the higher incremental cost of many AFV models (compared to conventional vehicles). It will also acquire light duty vehicles with a higher fuel economy of 1 mpg in FY 2002 and 3 mpg in FY 2005, and further reduce petroleum consumption by using biodiesel fuel in all diesel vehicles.

The Department of Veterans Affairs Fleet Compliance for FY 2000

Figure 1 is a graphical depiction of AFV acquisitions by the Department of Veterans Affairs' fleet in fiscal year 2000 and projections for FY 2001 and FY 2002 (note: GSA leased data not received and not included in projections). The Department of Veterans Affairs acquired 1,237 covered light-duty vehicles (LDVs) in fiscal year 2000, of which 256 were AFVs, plus AFV acquisition credits for a total 266. Attachment A provides detailed information on the number and types of light-duty vehicles leased or purchased by the Department of Veterans Affairs fleets in FY 2000.

BASED ON AVAILABLE INFORMATION (2000 – 2002 GSA specific info not received)

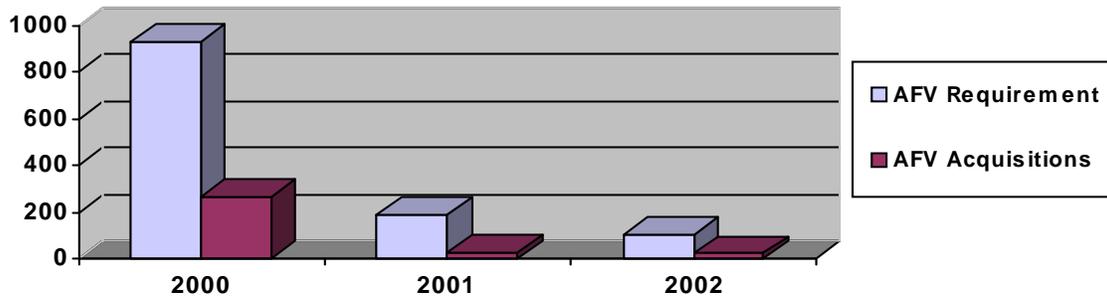


Figure 1. Summary of the Department of Veterans Affairs' FY 2000 AFV Acquisitions

Additional vehicles were leased and purchased by the Department of Veterans Affairs that were not "covered" vehicles. Of the total of 1,342 light-duty vehicles acquired in FY 2000, 105 of these vehicles were not counted for compliance:

- 105 were exempt as law enforcement vehicles

Alternative Fuel Use by the Department of Veterans Affairs Fleets in FY 2000

Table 1 presents alternative fuel use data for the Department of Veterans Affairs' fleets in fiscal year 2000. The majority of vehicles acquired by the Department of Veterans Affairs and other Federal fleets are leased from GSA, and the leasing contract folds in the maintenance and fuel costs for the vehicles. This is accomplished by the use of a GSA credit card that the fleets use to purchase alternative fuel. However, since product code standards are not uniform among suppliers of alternative fuels (e.g., ethanol or E-85), it is impossible for credit vendors to accurately track the purchase of alternative fuels with this credit card. The exception may be natural gas, which is usually purchased at a local utility refueling site, allowing the fleets to contact the utility for an accurate accounting of purchased fuel.

Table 1. The Department of Veterans Affairs Fuel Use in FY 2000

Fuel Type	Quantity	Unit
Biodiesel – B100		Gallons
CNG	6,896	Gallons @ 2,400 psi, 70°F
CNG		Hundred cu. ft.
Diesel	2,169,054	Gallons
E-85		Gallons*
Gasoline	4,394,183	Gallons

Methanol		Gallons
Propane		Gallons

* Estimate based on incomplete data (does not include GSA vehicle lease data)

The Department of Veterans Affairs' Fleet AFV Acquisitions for FY 2001 and FY 2002

Attachments B and C provide detailed information on projected vehicle acquisitions and inventory for the Department of Veterans Affairs' fleets for FY 2001 and FY 2002. In FY 2001, the Department of Veterans Affairs' fleets acquired a cumulative total of 254 light-duty vehicles, of which 28 (including 3 AFV credits) are alternative fuel vehicles. Projected light-duty acquisitions in FY 2002 total 138. Of this amount, 23 (including credits) will be AFVs.

Petroleum Savings

Since it is difficult, if not impossible, to project petroleum savings for FY 2001 and FY 2002 based upon the estimated AFV acquisitions, improvements in fuel economy, and fleet efficiency, petroleum savings are reported for only FY 2000 based on actual data on hand for FY 1999 and FY 2000.

In FY 1999 the Department of Veterans Affairs' baseline petroleum consumption was 6,247,618 GGE and FY 2000 petroleum consumption was 6,563,237. The increase shown in fuel consumption, FY 2000 compared to FY 1999, is attributed to integration of medical centers in various parts of the U.S.

Summary

As detailed in this report, the attached appendices, and information currently available, the Department of Veterans Affairs shows a decrease in AFV acquisitions for 2001 and 2002 due to the lack of GSA information on possible replacement leases. The Department of Veterans Affairs will continue to implement its strategy for complying with the requirements of Executive Order 13149, which will result in at least a 20 percent reduction in the fleet's annual petroleum consumption in FY 2005.

Department of Veterans Affairs

Petroleum Consumption Report

EO 13149 Covered Petroleum Consumption in GGE							
	FY 1999 Baseline	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
Gasoline	5,023,247	4,392,778					
Diesel	1,253,887	2,238,811					
Diesel component from biodiesel		0					
TOTAL	6,277,134	6,631,589					
Reduction*	N/A	-5.6 %					

* Reduction is the % reduction compared to the FY 1999 Baseline Total

Alternative Fuel Consumption (in GGE)							
	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	
CNG	2,864						
LNG	0						
LPG	0						
E-85*	80,452						
Electric	0						
M-85	0						
Biodiesel (B100)**	0						
TOTAL	83,316						
Est. Total Fuel Used in AFVs***	536,348						
% of Alt Fuel Use in AFVs****	.534 %						

*Revised to show E85 @ 80,452.

**Revised to show BioDiesel (B20) @ 83,316

Biodiesel is calculated at 20% of the reported B20 and 100% of the reported B100 fuel used in the Section III Actual Fuel Cost/Consumption by Fuel Type data input screen. Biodiesel is **not included in the calculation of total fuels used in AFVs because biodiesel itself is not burned in *Alternatively Fueled Vehicles*.

***Revised to show total fuel used in AFVs @ 536,348

****Revised % of Alt Fuel Use in AFVs @ .534%

Average Fuel Economy of non-AFV Light Duty Vehicle Acquisitions (in mpg)

	FY 1999 Baseline	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005
Fuel Economy	18.0	21					
Change Compared to Baseline		3.0					

**Department of Veterans Affairs
Complex-Wide AFV Report 2000 - Actuals**

Actuals Department of Veterans Affairs FY 2000 Vehicle Acquisitions					
Actuals FY 2000 Light-Duty Vehicle Acquisitions				Total Vehicle Inventory	
	Leased	Purchased	Total		
Total number of Light-Duty (8,500 GVWR) - Vehicle Acquisitions		1,253	89	1,342	5,808
Exemptions	Fleet Size	0	0	0	0
	Geographic	0	0	0	0
	Law Enforcement	97	7	104	323
	Non-MSA Operation	62	25	87	840
EPACT Covered Acquisitions		1,094	57	1,151	4,645
Actuals FY 2000 AFV Acquisitions				Total Vehicle Inventory	
Vehicle	Leased	Purchased	Total		
Sedan	CNG Bi-Fuel Compact	25	0	25	71
Sedan	Electric Dedicated Compact	0	0	0	9
Sedan	E-85 Flex-Fuel Midsize	75	0	75	194
Sedan	CNG Dedicated Large	0	0	0	2
Van 4x2	E-85 Flex-Fuel Compact	121	1	122	331
Van 4x2	CNG Dedicated Large	1	1	2	30
Pickup 4x2	LNG Bi-Fuel Compact Reg Cab	0	0	0	1
Pickup 4x2	E-85 Flex-Fuel Compact Reg Cab	18	0	18	18
Pickup 4x2	E-85 Flex-Fuel Compact Ext Cab	0	0	0	1
Pickup 4x4	E-85 Flex-Fuel Compact Ext Cab	1	0	1	1
Pickup 4x2	LPG Bi-Fuel Full-size Reg Cab	0	0	0	1
Pickup 4x2	CNG Bi-Fuel Full-size Reg Cab	6	0	6	17
Pickup 4x4	LPG Bi-Fuel Full-size Reg Cab	0	0	0	1
Pickup 4x4	CNG Bi-Fuel Full-size Reg Cab	2	1	3	7
Van 4x2	CNG Dedicated Large	4	0	4	10
Van 4x2	CNG Bi-Fuel Large	0	0	0	5
Van 4x2	LPG Bi-Fuel Large	0	0	0	1
Pickup 4x2	CNG Bi-Fuel Full-size Reg Cab	0	0	0	1

Ambulance	LPG Dedicated	0	0	0	2
MD AFV Other 8,501-16,000 GVWR	CNG Dedicated	0	0	0	1
MD AFV Other 8,501-16,000 GVWR	CNG Bi-Fuel	0	0	0	2
Total Number of AFV Acquisitions		253	3	256	706
Zero Emission Vehicle Credits		0	0	0	
Dedicated Light-Duty AFV Credits		1	1	2	
Dedicated Medium-Duty AFV Credits		8	0	8	
Dedicated Heavy-Duty AFV Credits		0	0	0	
Biodiesel Fuel Usage Credits - Actuals				0	
Total AFV Acquisitions with Credits		262	4	266	
AFV Percentage of Covered Light-Duty Vehicle Acquisition				23 %	

**Department of Veterans Affairs
Complex-Wide AFV Report 2001 - Planned**

Planned Department of Veterans Affairs FY 2001 Vehicle Acquisitions				
Planned FY 2001 Light-Duty Vehicle Acquisitions				
		Leased	Purchased	Total
Total number of Light-Duty (8,500 GVWR) - Vehicle Acquisitions		205	56	261
Exemptions	Fleet Size	0	0	0
	Geographic	0	0	0
	Law Enforcement	6	0	6
	Non-MSA Operation	67	23	90
EPACT Covered Acquisitions		132	33	165
Planned FY 2001 AFV Acquisitions				
Vehicle		Leased	Purchased	Total
Sedan (SIN 8, 8C)	Electric Dedicated Subcompact	1	0	1
Sedan (SIN 9, 9C)	CNG Bi-Fuel Compact	2	0	2
Sedan (SIN 10, 10B)	E-85 Flex-Fuel Midsize	10	0	10
Van 4x2 (SIN 20, 30)	E-85 Flex-Fuel Compact	11	0	11
Van 4x2 (SIN 22, 24, 32, 34)	CNG Dedicated Large	0	1	1
Total Number of AFV Acquisitions		24	1	25
Zero Emission Vehicle Credits		1	0	1
Dedicated Light-Duty AFV Credits		0	0	0
Dedicated Medium-Duty AFV Credits		0	2	2
Dedicated Heavy-Duty AFV Credits		0	0	0
Biodiesel Fuel Usage Credits - Planned				0

Total AFV Acquisitions with Credits	25	3	28
AFV Percentage of Covered Light-Duty Vehicle Acquisition			17 %

**Department of Veterans Affairs
Complex-Wide AFV Report 2002 - Projected**

Projected Department of Veterans Affairs FY 2002 Vehicle Acquisitions				
Projected FY 2002 Light-Duty Vehicle Acquisitions				
		Leased	Purchased	Total
Total number of Light-Duty (8,500 GVWR) - Vehicle Acquisitions		120	37	157
Exemptions	Fleet Size	0	0	0
	Geographic	0	0	0
	Law Enforcement	8	0	8
	Non-MSA Operation	25	11	36
EPACT Covered Acquisitions		87	26	113
Projected FY 2002 AFV Acquisitions				
Vehicle		Leased	Purchased	Total
Sedan (SIN 9, 9C)	CNG Bi-Fuel Compact	5	0	5
Sedan (SIN 10, 10B)	E-85 Flex-Fuel Midsize	3	2	5
Van 4x2 (SIN 21, 31)	CNG Dedicated Large	0	2	2
Van 4x2 (SIN 24, 32, 34)	CNG Bi-Fuel Large	2	0	2
MD AFV Other 8,501-16,000 GVWR (SIN)	CNG Dedicated	0	2	2
MD AFV Other 8,501-16,000 GVWR (SIN)	CNG Bi-Fuel	1	0	1
Total Number of AFV Acquisitions		11	6	17
Zero Emission Vehicle Credits		0	0	0
Dedicated Light-Duty AFV Credits		0	2	2
Dedicated Medium-Duty AFV Credits		0	4	4
Dedicated Heavy-Duty AFV Credits		0	0	0
Biodiesel Fuel Usage Credits - Projected				0
Total AFV Acquisitions with Credits		11	12	23
AFV Percentage of Covered Light-Duty Vehicle Acquisition				20 %