

U. S. DEPARTMENT OF AGRICULTURE ALTERNATIVE FUEL VEHICLE (AFV) PROGRAM REPORT FOR FISCAL YEAR 2002

The United States Department of Agriculture's (USDA) Fleet Alternative Fuel Vehicle (AFV) Program Report for Fiscal Year (FY) 2002 includes the Department's data on the number of AFVs acquired in FY 2002 and projected acquisitions for FYs 2003 and 2004. The report has been developed in accordance with the Energy Policy Act of 1992 (EPA Act), 42 U.S.C. 13211-13219, as amended by the Energy Conservation Reauthorization Act of 1998 (Public Law 105-388 (ECRA), and Executive Order (E. O.) 13149, Greening the Government Through Federal Fleet and Transportation Efficiency.

Fleet Mission Requirements

The USDA fleet is comprised of owned and commercially leased vehicles. The USDA fleet also includes vehicles leased from the General Services Administration (GSA). These vehicles are used to perform mission requirements; including the following:

- ◆ National Forest System
- ◆ Community Natural Resource Conservation Programs
- ◆ Animal, Plant, and Food Safety
- ◆ Border Surveillance
- ◆ Agriculture Science Research Programs

The Department has supported and participated in the government's alternative fuels program since its inception in 1992, encouraging our agencies to acquire vehicles for alternative fuel use. USDA is one of the first Government agencies to use biodiesel under the provisions of ECRA.

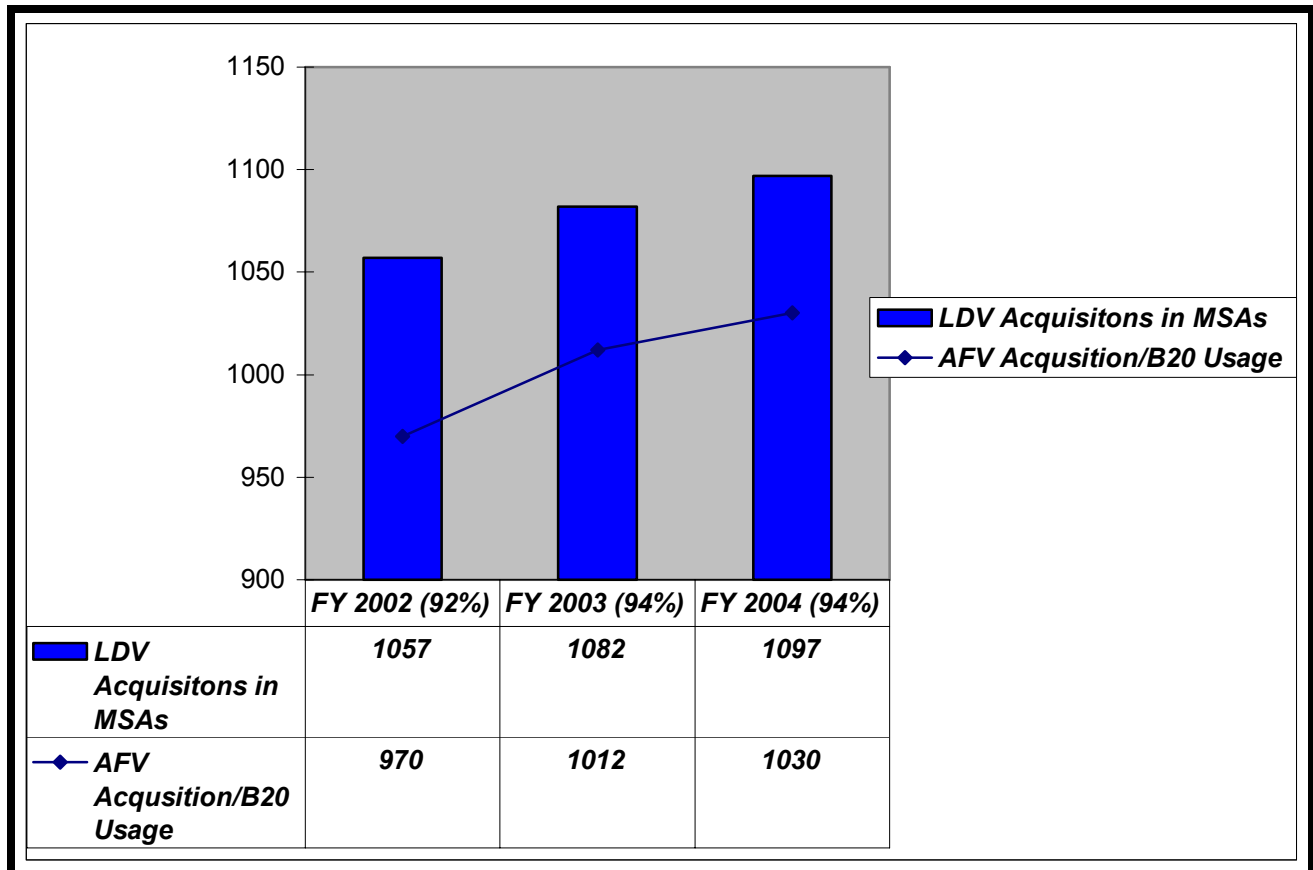
USDA AFV Acquisitions

For the second year in a row USDA has achieved and surpassed the EPA Act AFV acquisition goal of 75% with a remarkable rate of 92% for FY 2002. The use of biodiesel, specifically B20, played an integral role in USDA's success. USDA used 134,358 actual gallons of B20 which equals an acquisition of 59 AFVs. For FYs 2003 and 2004 USDA projects achieving a 94% AFV acquisition rate. USDA has made extraordinary progress since FY 1996 when the Department achieved an EPA Act goal of 4%.

The USDA vehicle acquisition (owned, commercially leased, GSA leased) rate could total 6,000 vehicles in any given year and decline to 4,000 vehicles the next. This is due primarily to the varying replacement cycles used by USDA agencies. For example, GSA leased vehicle replacement cycles are generally every three to four years, however, USDA owned vehicles are replaced anywhere from six to 10 years. A review of motor vehicle replacements over the past year by USDA fleet managers has determined that there will probably be fewer motor vehicle acquisitions for FYs 2003 and 2004. As a result of the acquisition of fewer motor vehicles USDA agencies project a minor decrease in AFV acquisitions. The use of B20, however, will increase substantially, allowing USDA to project EPA Act percentages of 94% for FYs 2003 and 2004 (See attachments 2 and 3). Also, it is very possible that GSA could replace more gasoline vehicles with AFVs.

Although LDV acquisitions are projected to decrease in FYs 2003 and 2004, LDVs acquired in MSAs will increase due to scheduled motor vehicle replacements. In FY 2002, LDVs acquired in MSAs were 25% of the overall LDV acquisitions. In FYs 2003 and 2004, LDV acquisitions in MSAs are projected to increase to 30% and 41% respectively.

Table 1. LDV/AFV Acquisitions by Fiscal Year



Since GSA is significantly increasing the numbers of AFVs available for lease or purchase USDA is making AFVs a priority request when acquiring vehicles through GSA. Future AFV acquisitions will encompass a mixture of bi-fuel, flexible fuel and dedicated vehicles, along with substantial annual increases in biodiesel usage. These strategies will be used to reduce petroleum consumption in accordance with E. O.13149. Agency-specific strategies will facilitate the continuation of achieving and surpassing the EPAct and E. O. 13149 goals.

Table 2. AFV Acquisition Breakdown

FISCAL YEAR	2002	2003	2004
ACTUAL AFV ACQUISITIONS	911	907	844
DEDICATED CREDIT	0	3	0
BIODIESEL CREDIT	59	102	186
AFV TOTALS/ EPAAct PERCENTAGE	970 (92%)	1012 (94%)	1030 (94%)

Table 3. FY 2002 USDA Petroleum Strategy Projected Data Vs. Actual Acquisition Data

The USDA Petroleum Reduction Strategy projected that the FY 2002 total AFV acquisition percentage (actual AFV acquisitions and dedicated/biodiesel credits) would be 80%. The actual AFV acquisition percentage was 92%, significantly exceeding strategy projections. Data estimates for the USDA Petroleum Reduction Strategy were projected from the best information available at the time. Recent advances in the AFV industry and GSA's efforts to acquire more AFVs have proven successful and has allowed USDA to take full advantage of these opportunities. Tables 3 and 4 outline the FY 2002 strategy projected acquisitions compared to the USDA FY 2002 actual acquisitions.

FISCAL YEAR 2002	LDV ACQUISITIONS	LDV ACQUISITIONS IN NON-MSAs	LDV ACQUISITIONS IN MSAs	ACTUAL AFV ACQUISITIONS	DEDICATED AFV AND BIODIESEL CREDITS	TOTAL	EPAAct %
STRATEGY PROJECTION	4,487	3,685	802	543	100 (1 DEDICATED)	643	80%
ACTUAL ACQUISITIONS	4,228	3,171	1,057	911	59	970	92%

Table 4. Strategy Projection Vs. FY 2002 Actual Acquisition

The information contained in Table 4 analyzes Table 3 and offers reasons for the differences between the USDA Petroleum Reduction Strategy and the actual USDA acquisitions for FY 2002.

FISCAL YEAR 2002	LDV ACQUISITIONS	LDV ACQUISITIONS IN NON-MSAs	LDV ACQUISITIONS IN MSAs	ACTUAL AFV ACQUISITION	DEDICATED AFV AND BIODIESEL CREDITS
STRATEGY PROJECTION Vs. ACTUAL ACQUISITIONS	Acquisitions appear to be on target with a limited variance	USDA agencies acquired less LDVs in Non-MSAs than predicted in the strategy	USDA acquired more LDVs in MSAs than projected in the strategy	USDA agencies actual AFV acquisition is significantly more than projected in the strategy	USDA agencies dedicated and biodiesel credits are less than projected
RATIONALE FOR AFV DATA DIFFERENCES	LDV acquisitions fall in the normal range in accordance with previous fiscal years		According to USDA agencies the increase in LDV acquisitions are attributed to scheduled replacements of vehicles in MSAs	USDA and GSA have been directly working together instructing agencies to replace regular gasoline vehicles with AFVs	Installation of three new biodiesel tanks was delayed, however, tanks will be operational in spring of 2003

Summary

The progress that USDA agencies have made towards achieving the goals of EPAct and E. O. 13149 are truly noteworthy. Since FY 1996, USDA EPAct percentages have skyrocketed because of increased AFV acquisitions and the use of B20. USDA has accepted the challenge to become one of the leading agencies in the alternative fuels arena. USDA will take full advantage of any strategies and opportunities to ensure the Department continues to meet and exceed regulatory requirements. USDA strongly supports the initiatives set forth in EPAct, E. O. 13149, and ECRA.

The future of the USDA motor vehicle fleet will be affected by necessary changes in our government. The Department of Homeland Security (DHS) is the most significant transformation of the U.S. government in over a half-century. This agency will transform and realign government activities into a single department whose primary mission is to protect our homeland. USDA will lose an undetermined number of motor vehicles from the Agricultural Research Service (ARS) and the Animal and Plant Health Inspection Service (APHIS) to support the DHS mission. These agencies have approximately 8,000 owned, commercially

leased, and GSA leased vehicles. The transfer of vehicles from ARS and APHIS will undoubtedly initiate a re-examination of current motor vehicle strategies to ensure the continuation of regulatory goal achievements.

As in past years, the availability of fuel data used to measure progress toward the use of alternative fuels and the reduction of petroleum fuels is incomplete and unreliable. This is a major concern to USDA but not within our power to resolve independently. The issues of tertiary fleet card data correctly identifying fuel type purchased at the pump and the inability to obtain full and accurate accounting of fuel use for GSA leased vehicles must be resolved. USDA will do all it can to provide the most reliable and accurate data possible when reporting to Federal regulatory agencies and Congress. The aforementioned issues, however, must be resolved to provide a full picture of fleet and fuel use in the coming years.

**Department of Agriculture
Department of Agriculture Actual FY 2002 Vehicle Acquisitions**

Actual FY 2002 Light-Duty Vehicle Acquisitions				
		Leased	Purchased	Total
Total number of Light-Duty (8,500 GVWR) - Vehicle Acquisitions		1,464	2,764	4,228
Exemptions	Fleet Size	0	0	0
	Geographic	1,043	2,112	3,155
	Law Enforcement	16	0	16
	Non-MSA Operation (fleet)	0	0	0
	Non-MSA Operation (vehicles) <small>(From Section I[b])</small>	(n/a)	(n/a)	0
EPACT Covered Acquisitions		405	652	1,057
Actual FY 2002 AFV Acquisitions				
Vehicle		Leased	Purchased	Total
Sedan	CNG Bi-Fuel Subcompact	0	0	0
Sedan	CNG Bi-Fuel Compact	0	0	0
Sedan	E-85 Flex-Fuel Compact	0	4	4
Sedan	E-85 Flex-Fuel Midsize	90	66	156
St. Wagon	E-85 Flex-Fuel Midsize	13	44	57
Pickup 4x2	E-85 Flex-Fuel Compact	1	54	55
Pickup 4x2	E-85 Flex-Fuel Compact Ext Cab	0	0	0
Pickup 4x2	E-85 Flex-Fuel Compact Reg Cab	0	1	1
Pickup 4x2	CNG Dedicated Full-size Ext Cab	0	0	0
Pickup 4x2	E-85 Flex-Fuel Full-size Ext Cab	6	0	6
Pickup 4x2	LPG Bi-Fuel Full-size Ext Cab	0	3	3
Pickup 4x2	CNG Bi-Fuel Full-size Reg Cab	1	1	2
Pickup 4x2	CNG Dedicated Full-size Reg Cab	0	0	0
Pickup 4x2	E-85 Flex-Fuel Full-size Reg Cab	13	146	159
Pickup 4x2	LPG Bi-Fuel Full-size Reg Cab	0	5	5
Pickup 4x4	E-85 Flex-Fuel Compact Ext Cab	0	0	0
Pickup 4x4	E-85 Flex-Fuel Compact Reg Cab	3	0	3
Pickup 4x4	CNG Bi-Fuel Full-size Ext Cab	0	0	0
Pickup 4x4	E-85 Flex-Fuel Full-size Ext Cab	24	2	26
Pickup 4x4	LPG Bi-Fuel Full-size Ext Cab	0	1	1
Pickup 4x4	CNG Bi-Fuel Full-size Reg Cab	0	1	1
Pickup 4x4	E-85 Flex-Fuel Full-size Reg Cab	10	121	131
Pickup 4x4	LPG Bi-Fuel Full-size Reg Cab	0	3	3
SUV 4x2 4dr	E-85 Flex-Fuel Large	0	0	0
SUV 4x2 4dr	E-85 Flex-Fuel Midsize	0	3	3
SUV 4x4 4dr	E-85 Flex-Fuel Large	2	5	7

SUV 4x2 4dr	E-85 Flex-Fuel Compact	0	1	1
SUV 4x4 4dr	E-85 Flex-Fuel Compact	0	37	37
SUV 4x4 4dr	E-85 Flex-Fuel Midsize	27	142	169
Van 4x2	E-85 Flex-Fuel Compact	37	44	81
Pickup 4x2	CNG Bi-Fuel Full-size Reg Cab	0	0	0
Total Number of AFV Acquisitions		227	684	911
Zero Emission Vehicle Credits		0	0	0
Dedicated Light-Duty AFV Credits		0	0	0
Dedicated Medium-Duty AFV Credits		0	0	0
Dedicated Heavy-Duty AFV Credits		0	0	0
Biodiesel Fuel Usage Credits - Actuals				59
Total AFV Acquisitions with Credits		227	684	970
AFV Percentage of Covered Light-Duty Vehicle Acquisition				92 %

Planned FY 2003 Light-Duty Vehicle Acquisitions

Planned Department of Agriculture FY 2003 Vehicle Acquisitions				
Planned FY 2003 Light-Duty Vehicle Acquisitions				
		Leased	Purchased	Total
Total number of Light-Duty (8,500 GVWR) - Vehicle Acquisitions		1,374	2,250	3,624
Exemptions	Fleet Size	0	0	0
	Geographic	935	1,607	2,542
	Law Enforcement	0	0	0
	Non-MSA Operation (fleet)	0	0	0
	Non-MSA Operation (vehicles)	<i>(n/a)</i>	<i>(n/a)</i>	0
EPACT Covered Acquisitions		439	643	1,082
Planned FY 2003 AFV Acquisitions				
	Vehicle	Leased	Purchased	Total
Sedan (SIN 9, 9C)	E-85 Flex-Fuel Compact	0	5	5
Sedan (SIN 10, 10B)	E-85 Flex-Fuel Midsize	90	67	157
St. Wagon (SIN 14, 14C)	E-85 Flex-Fuel Midsize	9	82	91
Pickup 4x2 (SIN 60)	E-85 Flex-Fuel Compact	4	54	58
Pickup 4x2 (SIN 61C)	E-85 Flex-Fuel Compact Ext Cab	0	2	2
Pickup 4x2 (SIN 61)	E-85 Flex-Fuel Compact Reg Cab	6	2	8
Pickup 4x2 (SIN 41C)	E-85 Flex-Fuel Full-size Ext Cab	6	0	6
Pickup 4x2 (SIN 41)	E-85 Flex-Fuel Full-size Reg Cab	13	148	161
Pickup 4x4 (SIN 66C)	E-85 Flex-Fuel Compact Ext Cab	0	3	3
Pickup 4x4 (SIN 46C)	E-85 Flex-Fuel Full-size Ext Cab	14	15	29
Pickup 4x4 (SIN 47C)	LPG Bi-Fuel Full-size Ext Cab	0	1	1
Pickup 4x4 (SIN 46, 47)	CNG Bi-Fuel Full-size Reg Cab	0	1	1
Pickup 4x4 (SIN 46)	E-85 Flex-Fuel Full-size Reg Cab	10	123	133
Pickup 4x4 (SIN 46, 47)	LPG Bi-Fuel Full-size Reg Cab	0	2	2
SUV 4x2 4dr (SIN 100B)	E-85 Flex-Fuel Midsize	0	8	8
SUV 4x4 4dr (SIN 106)	E-85 Flex-Fuel Large	2	0	2
SUV 4x4 4dr (SIN 105)	E-85 Flex-Fuel Compact	0	43	43
SUV 4x4 4dr (SIN 105B)	E-85 Flex-Fuel Midsize	27	90	117
Van 4x2 (SIN 20, 30)	E-85 Flex-Fuel Compact	38	39	77
Van 4x2 (SIN 20, 30)	Electric Dedicated Compact	0	3	3
Total Number of AFV Acquisitions		219	688	907
Zero Emission Vehicle Credits		0	3	3
Dedicated Light-Duty AFV Credits		0	0	0
Dedicated Medium-Duty AFV Credits		0	0	0
Dedicated Heavy-Duty AFV Credits		0	0	0
Biodiesel Fuel Usage Credits – Planned				102
Total AFV Acquisitions with Credits		219	691	1,012
AFV Percentage of Covered Light-Duty Vehicle Acquisition				94 %

**Department of Agriculture
Complex-Wide AFV Report 2004 - Projected**

Projected Department of Agriculture FY 2004 Vehicle Acquisitions				
Projected FY 2004 Light-Duty Vehicle Acquisitions				
		Leased	Purchased	Total
Total number of Light-Duty (8,500 GVWR) - Vehicle Acquisitions		422	2,262	2,684
Exemptions	Fleet Size	0	0	0
	Geographic	2	1,585	1,587
	Law Enforcement	0	0	0
	Non-MSA Operation (fleet)	0	0	0
	Non-MSA Operation (vehicles)	(n/a)	(n/a)	0
EPACT Covered Acquisitions		420	677	1,097
Projected FY 2004 AFV Acquisitions				
Vehicle		Leased	Purchased	Total
Sedan (SIN 9, 9C)	E-85 Flex-Fuel Compact	0	17	17
Sedan (SIN 10, 10B)	E-85 Flex-Fuel Midsize	62	70	132
St. Wagon (SIN 14, 14C)	E-85 Flex-Fuel Midsize	9	45	54
Pickup 4x2 (SIN 60)	E-85 Flex-Fuel Compact	3	61	64
Pickup 4x2 (SIN 61)	E-85 Flex-Fuel Compact Reg Cab	4	10	14
Pickup 4x2 (SIN 41C)	E-85 Flex-Fuel Full-size Ext Cab	3	0	3
Pickup 4x2 (SIN 41, 42)	CNG Bi-Fuel Full-size Reg Cab	1	0	1
Pickup 4x2 (SIN 41)	E-85 Flex-Fuel Full-size Reg Cab	0	165	165
Pickup 4x4 (SIN 46C)	E-85 Flex-Fuel Full-size Ext Cab	10	11	21
Pickup 4x4 (SIN 46, 47)	CNG Bi-Fuel Full-size Reg Cab	0	1	1
Pickup 4x4 (SIN 46)	E-85 Flex-Fuel Full-size Reg Cab	0	134	134
Pickup 4x4 (SIN 46, 47)	LPG Bi-Fuel Full-size Reg Cab	0	2	2
SUV 4x2 4dr (SIN 100B)	E-85 Flex-Fuel Midsize	0	6	6
SUV 4x2 4dr (SIN 100)	E-85 Flex-Fuel Compact	0	5	5
SUV 4x4 4dr (SIN 105)	E-85 Flex-Fuel Compact	0	57	57
SUV 4x4 4dr (SIN 105B)	E-85 Flex-Fuel Midsize	6	85	91
Van 4x2 (SIN 20, 30)	E-85 Flex-Fuel Compact	19	52	71
Pickup 4x2 (SIN 44)	CNG Bi-Fuel Full-size Reg Cab	2	0	2
Van 4x2 (SIN 22, 24, 32, 34)	CNG Bi-Fuel Large	4	0	4
Total Number of AFV Acquisitions		123	721	844
Zero Emission Vehicle Credits		0	0	0
Dedicated Light-Duty AFV Credits		0	0	0
Dedicated Medium-Duty AFV Credits		0	0	0
Dedicated Heavy-Duty AFV Credits		0	0	0
Biodiesel Fuel Usage Credits - Projected				186
Total AFV Acquisitions with Credits		123	721	1,030
AFV Percentage of Covered Light-Duty Vehicle Acquisition				94 %

PETROLEUM CONSUMPTION REPORT

PETROLEUM CONSUMPTION	FY 1999 Baseline	FY2002	FY2003	FY2004	FY2005
Gasoline	19,827,893	18,041,978			
Diesel	1,454,034	1,927,352			
TOTAL	21,281,927	19,969,330			
Reduction*	N/A	6%			
ALTERNATIVE FUEL CONSUMPTION *					
CNG		94			
LNG		0			
LPG		8,185			
E-85		151*			
Electric		0			
M-85		0			
Biodiesel (B100)		29,036			
TOTAL		37,466			
FUEL ECONOMY COMPARISON	FY 1999 Baseline	FY2002	FY2003	FY2004	FY2005
Fuel Economy	17.0	20			
Change Compared to Baseline		3.0			

* GSA stated that they are unable to provide **alternative fuel use** data with any reasonable accuracy