

**Use of Alternative Fuels and Clean Burning Fuels  
in the State Motor Vehicle Fleet**

**Data Reported as of  
June 30, 2013**

**To the Governor, President of the Senate,  
and Speaker of the House of Representatives**

**November 2013**

**Prepared by the  
Arizona Department of Administration**

Janice K. Brewer  
Governor



Brian C. McNeil  
Director

**ARIZONA DEPARTMENT OF ADMINISTRATION**

OFFICE OF THE DIRECTOR

100 NORTH FIFTEENTH AVENUE • SUITE 401  
PHOENIX, ARIZONA 85007

(602) 542-1500

October 28, 2013

The Honorable Janice K. Brewer  
Governor, State of Arizona

The Honorable Andy Biggs  
President, Arizona State Senate

The Honorable Andy Tobin  
Speaker, Arizona House of Representatives

1700 West Washington Street  
Phoenix, Arizona 85007

Dear Governor Brewer, President Biggs and Speaker Tobin,

On behalf of the State Motor Vehicle Fleet Alternative Fuel Coordinator, please see the attached sixteenth annual report on the Use of Alternative Fuels and Clean Burning Fuels in the State Motor Vehicle Fleet. The report has been prepared in accordance with the requirements of Arizona Revised Statutes § 41-803 (R).

Please contact Steve Perica, State Motor Vehicle Alternative Fuel Coordinator, [steve.perica@azdoa.gov](mailto:steve.perica@azdoa.gov) or me [brian.mcneil@azdos.gov](mailto:brian.mcneil@azdos.gov), if you would like to discuss the contents of this report.

Sincerely,

A handwritten signature in black ink, appearing to read "B. C. McNeil", written over a horizontal line.

Brian C. McNeil  
Director

cc: John Arnold, OSPB  
Richard Stavneak, JLBC

**TABLE OF CONTENTS**

**Executive Summary..... 2**

**Background..... 3**

**Light Duty Vehicles ..... 5**

**Light Duty Vehicles in Maricopa County with Exempts Removed ..... 7**

**Vehicles Capable of Using Alternative Fuels Reported ..... 8**

**Compliance with Alternative Fuel Mandates as Percent of Fleet ..... 10**

**New Vehicle Purchases ..... 13**

**Light Duty Vehicle Costs..... 16**

**Compliance of Federal Agencies in Arizona..... 19**

**Other Statistical Data ..... 20**

## Executive Summary

All State Fleet Entities (**SFEs**) participated in the sixteenth annual report regarding the State motor vehicle fleet. The following summarizes the State's efforts to comply with the three requirements under A.R.S. § 41-803:

- The State was mandated to have at least 40.0% of the total motor vehicle fleet capable of using alternative fuels by December 31, 1995, with the exception of the community colleges, which are required to be in compliance as of December 31, 2002. Of the State's 4,762 light duty vehicles that qualify under the alternative fuel mandates, a total of 3,578 or 75.1% are currently capable of using alternative fuels. There was an increase of 3.8% over last year's 72.4%. Adjusting for 285 vehicle equivalents earned pursuant to alternative fuel usage, the percentage increases to 81.1%.
- In the State's most populous county, Maricopa, the mandate was to have at least 90.0% of the qualifying fleet capable of using alternative fuels by December 31, 1997, with the exception of the community colleges, which are required to be in compliance as of December 31, 2004. Of the State's 2,766 vehicles located in Maricopa County, 2,403 or 86.9% are capable of using alternative fuels. This is an increase of 2.7% over last year's 84.6%. Adjusting for 285 vehicle equivalents earned pursuant to alternative fuel usage, the percentage increases to 97.2%. To stay in compliance with this mandate, state entities will have to continue to purchase vehicles capable of using alternative fuels for use in Maricopa County or use more alternative fuel.
- There is also a state and federal requirement that 75% of all new vehicles purchased, operating primarily in Maricopa and Pima counties, are capable of operating on alternative fuels. In fiscal year 2013, 93.6% of all state vehicles purchased were capable of using alternative fuel.
- It should be noted that, with regard to the U.S. Department of Energy's State & Alternative Fuel Provider Program, the total state fleet exceeded the acquisition requirements in model years 1998 through 2001 and 2004 through 2012, and has "banked" 1,339 credits toward the purchase of new vehicles.

As demonstrated above, the State of Arizona is in compliance with state and federal requirements. When compared to other states and alternative fuel provider fleets included in the federal mandates, Arizona is ranked among the top in compliance and banking credits.

**Background**

During the Forty-third Legislature, Second Regular Session, 1998, SB 1269 was passed. The bill was signed into law by Governor Jane Dee Hull on June 1, 1998.

The bill contained several provisions regarding tax credits and use and regulation of alternative fuels. In particular, the bill:

Established a state motor vehicle fleet alternative fuel coordinator (Coordinator) in the Department of Administration to ensure that state agencies and educational institutions (SFEs) are in compliance with the state alternative fuel mandates (purchases, conversions, waivers, and certifications).

To that end, the State Vehicle Fleet Coordinator must report annually to the Governor and the Legislature on the use of alternative fuels in the State Motor Vehicle Fleet. According to A.R.S. § 41-803(R), the report shall include the following:

1. The number of state fleet vehicles.
2. The number of state vehicles used primarily in Maricopa County.
3. The number of state fleet vehicles capable of using alternative fuels.
4. Progress on compliance with federal and state guidelines mandating the conversion of state fleet vehicles to alternative fueled vehicles.
5. Alternative fuels usage data.
6. Information received from state agencies and educational institutions (SFEs) requested by ADOA and the Fleet Coordinator.
7. Information gathered from local offices of federal agencies regarding progress made toward implementing the federal mandates relating to the conversion of motor vehicle fleets to alternative fuels pursuant to the provision of the bill.

This is the sixteenth annual report by the Statewide Fleet Coordinator pursuant to A.R.S. § 41-803(R). The data included in this report was prepared by each SFE which includes state agencies, universities, and community colleges and was delivered to the Fleet Coordinator in August and September of 2013.

In 1999, during the Forty-fourth Legislature, First Regular Session, several modifications to the statutes regarding tax credits and the use and regulation of alternative fuels were passed in HB 2405. Governor Jane Dee Hull signed the bill into law on May 5, 1999.

In particular, HB 2405 included three provisions that affect this report:

1. Modifies the effective date of vehicles that use alcohol fuels to be considered an alternative fuel (A.R.S. § 1-215(4)(d)).
2. Defined a “motor vehicle” to be a vehicle that meets the safety standards of the National Highway Traffic Safety Administration and includes neighborhood electric vehicles manufactured or modified on or after June 17, 1998 (A.R.S. § 28-5805(E)(2)).
3. Extended the timetable for community college districts from complying with the State’s standards for achieving the percentage of alternative fueled vehicles in their fleets statewide and in counties exceeding 1,200,000 persons according to the most recent Federal decennial census (A.R.S. § 41-803(K)(2)).

In 2000, during the Forty-fourth Legislature, Second Regular Session, additional modifications were made to A.R.S. § 41-803. Two new provisions were added:

1. Any contract for conversion of vehicles to alternative fuels pursuant to this section shall be entered into by competitive sealed proposals pursuant to Section 41-2534.
2. If everything else is equal, when contracting for vehicles to satisfy the requirements prescribed in this section, preference shall be given to vehicles with the lowest emissions levels.

In 2004, during the Forty-sixth Legislature, Second Regular Session, additional modifications were made to A.R.S. § 1-215. Under “Clean Burning Fuel,” HB 2403 added provisions related to Neat Methanol (A.R.S. § 1-215(7)(e)), Neat Ethanol (A.R.S. § 1-215(7)(f)), and established that a blend of unleaded gasoline that contains at minimum eighty-five per cent Ethanol by volume or eighty-five per cent Methanol by volume. (A.R.S. § 1-215(7)(d)).

In 2006, during the Forty-seventh Legislature, First Regular Session, additional changes were made to A.R.S. § 41-803. Senate Bill 1346 (Chapter 388) added two new clauses that create new methods to accumulate vehicle equivalents:

1. One vehicle equivalent for every 450 gallons of neat biodiesel or 2,250 of a diesel fuel substitute (B20 or higher) in vehicles with a GVWR of at least 8,500 lbs.
2. One vehicle equivalent for every 530 gallons of Ethanol.

The following pages contain data tables, charts and graphs that describe the progress of the State towards meeting the vehicle alternative fuel mandates set by the Arizona State Legislature and the Federal Government.

## Light Duty Vehicles

The first data requirement is to report the number of State fleet vehicles. All SFEs submitted fleet data. A total of 11,588 vehicles were reported. For the purposes of this report on alternative fuel usage, only light duty vehicles are relevant for comparison purposes.

A total of 8,386 vehicles were reported to be light duty. Light duty is defined as any vehicle with a gross vehicle weight (GVW) of 8,500 pounds or less. **Table 1** lists all reported light duty vehicles by SFE.

Based on the data submitted, the eight major SFEs (ADOA, ADOT, ASU, DES, DOC, DPS, NAU and the U of A) accounted for 90.9% of the total number of the light duty vehicles reported.

*Table 1: Light Duty Vehicles by SFE*

AGENCY NAME	NUMBER OF VEHICLES FY13
Administration, Department of	1,288
Arizona State University	417
Attorney General, Office of	15
Arizona Cotton Research and Protection Council	32
Corrections, Department of	1,093
Criminal Justice Commission	2
Economic Security, Department of	1,154
Emergency and Military Affairs, Department of	28
Exposition and State Fair	5
Game and Fish	171
Health Care Cost Containment System - AHCCCS	57
Library, Archives and Public Records	7
Maricopa County Community Colleges	123
Northern Arizona University	213
Parks	71
Pima Community Colleges	70
Public Safety, Department of	2,041
Schools for the Deaf and the Blind	170
Transportation, Department of	828
University of Arizona	590
Veterans' Services, Department of	11
<b>TOTAL Light Duty Vehicles (LDVs)</b>	<b>8,386</b>

A.R.S. § 41-803 exempts various types of light duty vehicles from the alternative fuel mandates. Vehicles that are used for law enforcement, motorcycles, ambulances, fire trucks or other fire suppression apparatus, and all-terrain vehicles are exempted from the mandates in the law. All-terrain vehicles are considered to be any 4x4 vehicle.

**Table 2** lists light duty vehicles with exempted vehicles removed from the reported numbers. This is the universe of vehicles used in calculating the State’s progress toward meeting the mandates set forth in A.R.S. § 41-803.

*Table 2: Light Duty Vehicles with Exempts Removed by SFE*

AGENCY NAME	NUMBER OF VEHICLES FY13
Administration, Department of	853
Arizona State University	354
Attorney General, Office of	15
Corrections, Department of	1,021
Criminal Justice Commission	2
Economic Security, Department of	900
Emergency and Military Affairs, Department of	19
Exposition and State Fair	5
Game and Fish	13
Health Care Cost Containment System - AHCCCS	45
Library, Archives and Public Records	7
Maricopa Community Colleges	118
Northern Arizona University	152
Parks	39
Pima Community Colleges	52
Schools for the Deaf and the Blind	170
Transportation, Department of	527
University of Arizona	459
Veterans’ Services, Department of	11
<b>TOTAL</b>	<b>4,762</b>

**Light Duty Vehicles in Maricopa County with Exempted Vehicles Removed**

The second data requirement is to report on the number of light duty vehicles used primarily in Maricopa County. This data is based on the zip codes reported by each SFE. However, it is possible that a vehicle could be “garaged” or “stationed” in Maricopa County, but used in another location most of the time.

**Table 3** lists the reported light duty vehicles with exempted vehicles removed in Maricopa County.

*Table 3: Light Duty Vehicles in Maricopa County with Exempted Vehicles Removed by SFE*

AGENCY NAME	NUMBER OF VEHICLES FY13
Administration, Department of	771
Arizona State University	354
Attorney General, Office of	15
Corrections, Department of	477
Criminal Justice Commission	2
Economic Security, Department of	547
Emergency and Military Affairs, Department of	9
Exposition and State Fair	5
Game and Fish	10
Health Care Cost Containment System - AHCCCS	31
Library, Archives and Public Records	7
Maricopa County Community College	118
Northern Arizona University	4
Schools for the Deaf and the Blind	54
Transportation, Department of	347
University of Arizona	5
Veterans’ Services, Department of	10
<b>TOTAL</b>	<b>2,766</b>

## Vehicles Capable of Using Alternative Fuels Reported

The third data requirement is to report on the number of State vehicles capable of using alternative fuels. There are 3,578 vehicles with this capability. **Table 4** lists the AFVs by SFE and fuel type.

*Table 4: Light Duty Vehicles Capable of Using Alternative Fuels by SFE*

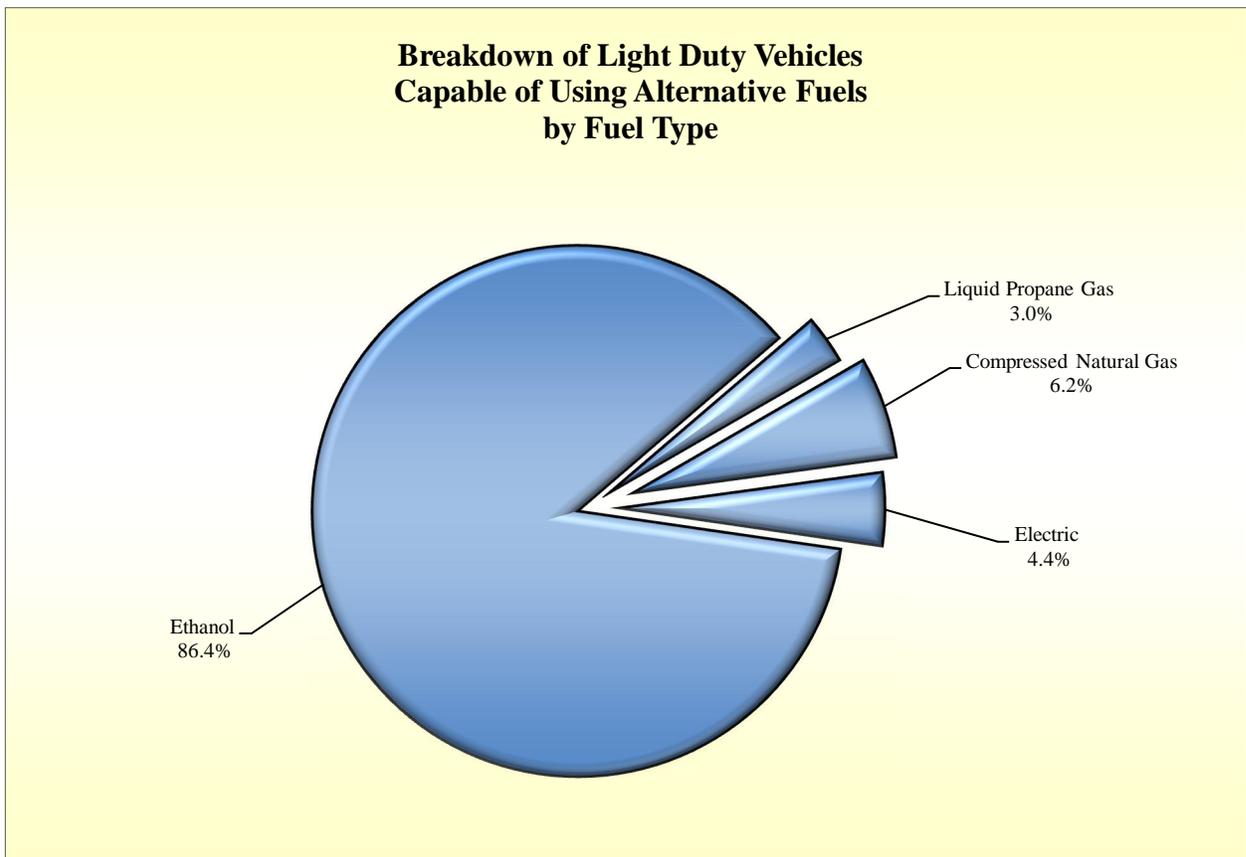
AGENCY NAME	ALTERNATIVE FUEL TYPE	NUMBER OF VEHICLES FY13
Administration, Department of	Compressed Natural Gas	84
Administration, Department of	Electric	2
Administration, Department of	Ethanol	707
Administration, Department of	Liquid Propane Gas	1
Arizona State University	Compressed Natural Gas	51
Arizona State University	Electric	154
Arizona State University	Ethanol	97
Corrections, Department of	Compressed Natural Gas	10
Corrections, Department of	Ethanol	602
Corrections, Department of	Liquid Propane Gas	52
Criminal Justice Commission	Ethanol	2
Economic Security, Department of	Compressed Natural Gas	9
Economic Security, Department of	Ethanol	823
Economic Security, Department of	Liquid Propane Gas	1
Emergency and Military Affairs, Department of	Ethanol	11
Game & Fish, Arizona	Ethanol	10
Health Care Cost Containment System - AHCCCS	Ethanol	36
Maricopa County Community Colleges	Compressed Natural Gas	4
Maricopa County Community Colleges	Ethanol	29
Maricopa County Community Colleges	Liquid Propane Gas	5
Northern Arizona University	Compressed Natural Gas	7
Northern Arizona University	Electric	2
Northern Arizona University	Ethanol	14
Northern Arizona University	Liquid Propane Gas	1
Parks	Ethanol	16
Pima Community Colleges	Compressed Natural Gas	9
Pima Community Colleges	Ethanol	16
Schools for the Deaf and the Blind	Compressed Natural Gas	19
Schools for the Deaf and the Blind	Ethanol	113
Transportation, Department of	Compressed Natural Gas	25
Transportation, Department of	Ethanol	440
Transportation, Department of	Liquid Propane Gas	34
University of Arizona	Compressed Natural Gas	3
University of Arizona	Electric	1
University of Arizona	Ethanol	176
University of Arizona	Liquid Propane Gas	12
<b>Total Alternative Fueled Vehicles</b>		<b>3,578</b>

A total of 3,578 light duty vehicles were reported as being capable of using alternative fuels. **Table 5** depicts the breakdown of these vehicles by type of alternative fuel and **Chart 1** illustrates their relative percentages.

*Table 5: Vehicles Capable of Using Alternative Fuels*

ALTERNATIVE FUEL	NUMBER OF VEHICLES FY13
Compressed Natural Gas	221
Electric	159
Ethanol	3,092
Liquid Propane Gas	106
<b>Total AFVs</b>	<b>3,578</b>

*Chart 1: Percentage of Light Duty Vehicles by Alternative Fuel Type*



### Compliance with Alternative Fuel Mandates as Percent of Fleet

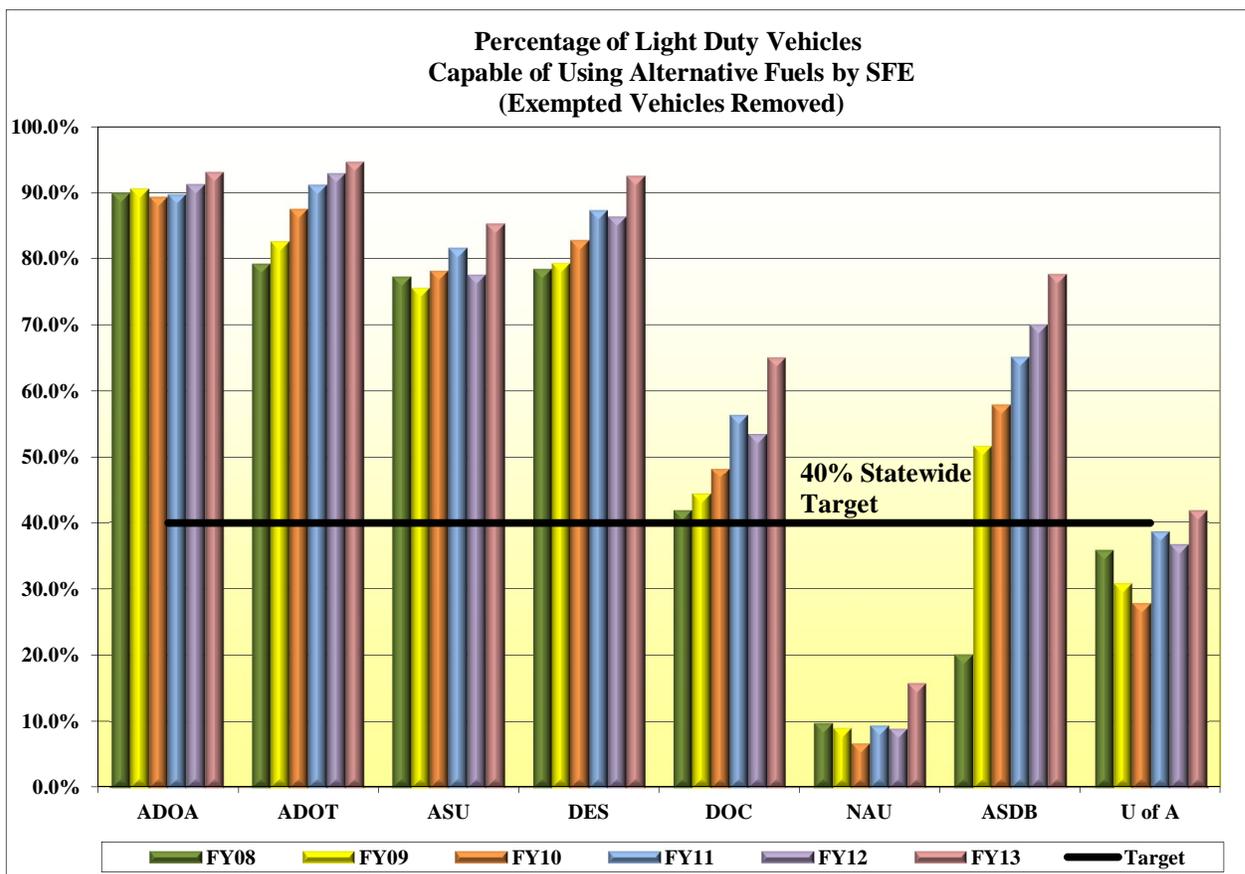
The fourth data requirement is to report the State’s progress in complying with federal and state guidelines which mandate the transition of state fleet vehicles from gasoline to AFVs.

Relative to the State’s efforts to comply with the mandate to have 40.0% of the qualifying fleet capable of using alternative fuels, there are 4,762 light duty vehicles of which 3,578 or 75.1% are capable of using alternative fuels. In FYs 2008, 2009, 2010, 2011, and 2012 SFEs reported a compliance rate of 59.7%, 65.7%, 65.7%, 69.6%, and 72.4% respectively. For the eleventh consecutive year, the State exceeded the 40.0% mandate.

In addition to the 3,578 light duty vehicles capable of using alternative fuels, there are 285 vehicle equivalents which would bring the FY 2013 total to 3,863 or 81.1% of the State’s light duty vehicles being capable of using alternative fuels.

**Graph 1** illustrates the percentage of light duty vehicles that are reported as being capable of using alternative fuels for fiscal years 2008 through 2013. This graph is broken down by individual SFE, whereas the data in the previous paragraph is a combined state fleet.

*Graph 1: Percentage of Light Duty Vehicles by SFE Capable of Using Alternative Fuels*



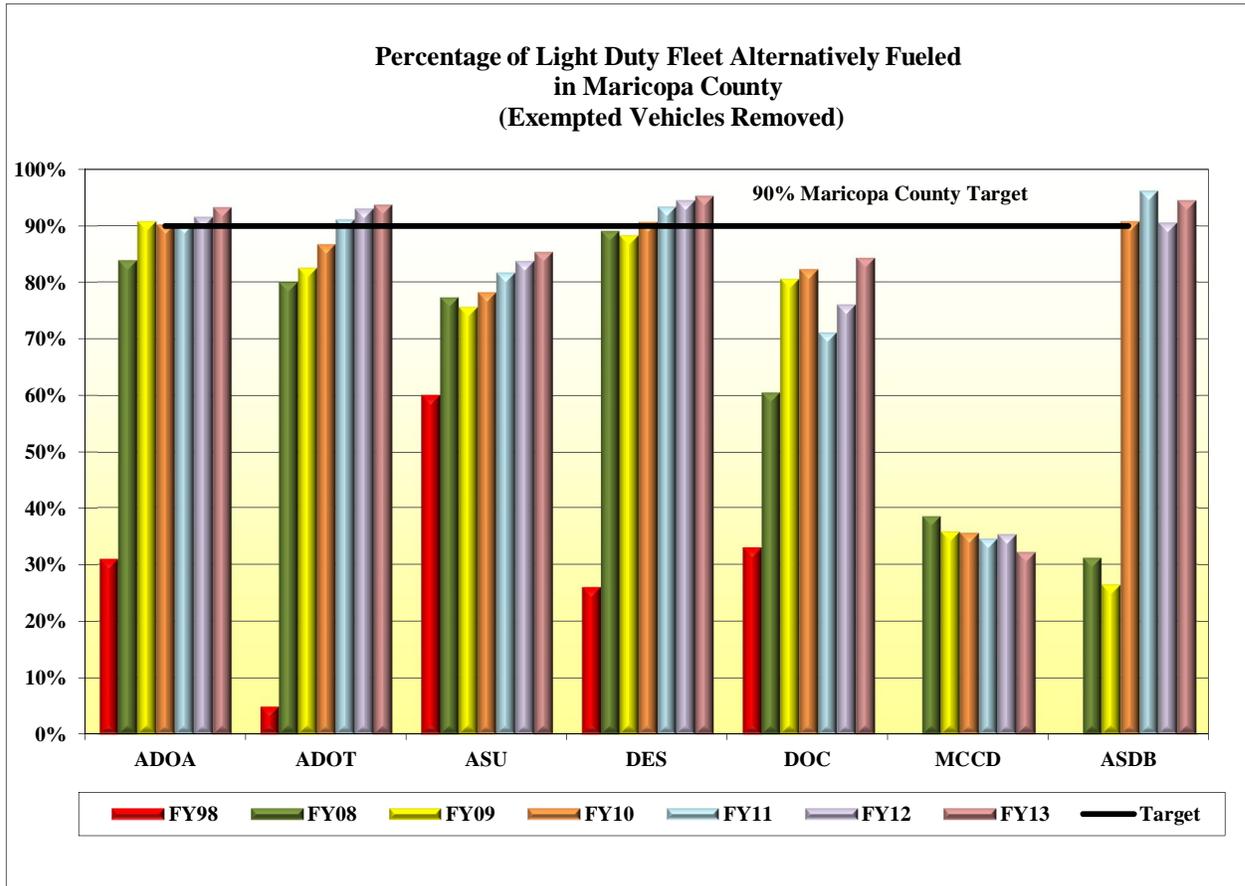
**Table 6** shows the results of the State’s efforts to comply with the mandate to have 90.0% of the fleet, operating primarily in Maricopa County, capable of using alternative fuels. SFEs reported 86.9% (2,403 of 2,766) of the vehicles in Maricopa County being capable of using alternative fuels. In addition to the 2,403 light duty vehicles capable of using alternative fuels, there are 285 vehicle equivalents which would bring the FY 2013 total to 2,688 or 97.2%.

**Table 6: Maricopa County Light Duty Vehicles Capable of Using Alternative Fuels by Fuel Type per SFE**

Agency Name	Number of Vehicles FY13	Alternative Fuel Type
Administration, Department of	76	Compressed Natural Gas
Administration, Department of	2	Electric
Administration, Department of	639	Ethanol
Administration, Department of	1	Liquid Propane Gas
Arizona State University	51	Compressed Natural Gas
Arizona State University	154	Electric
Arizona State University	97	Ethanol
Corrections, Department of	6	Compressed Natural Gas
Corrections, Department of	349	Ethanol
Corrections, Department of	47	Liquid Propane Gas
Criminal Justice Commission	2	Ethanol
Economic Security, Department of	4	Compressed Natural Gas
Economic Security, Department of	517	Ethanol
Emergency and Military Affairs, Department of	6	Ethanol
Game & Fish, Arizona	10	Ethanol
Health Care Cost Containment System - AHCCCS	26	Ethanol
Maricopa County Community Colleges	4	Compressed Natural Gas
Maricopa County Community Colleges	29	Ethanol
Maricopa County Community Colleges	5	Liquid Propane Gas
Schools for the Deaf & the Blind	5	Compressed Natural Gas
Schools for the Deaf & the Blind	46	Ethanol
Transportation, Department of	20	Compressed Natural Gas
Transportation, Department of	291	Ethanol
Transportation, Department of	14	Liquid Propane Gas
University of Arizona	2	Ethanol
<b>Total</b>	<b>2,403</b>	
<b>Total LD Vehicles Reported in Maricopa County</b>	<b>2,766</b>	

**Graph 2** illustrates the percentage of light duty vehicles, operating primarily in Maricopa County, that are reported as being capable of using alternative fuels. The graph includes information for FY 2008 through FY 2013. FY 1998 remains for comparison purposes.

*Graph 2: Percentage of Light Duty Vehicles in Maricopa County Capable of Using Alternative Fuels by SFE*



## New Vehicle Purchases

An additional mandate in A.R.S. § 41-803 is to have 75.0% of new vehicle purchases, operating primarily in Pima and Maricopa Counties, capable of using alternative fuels. This applies to model year 2001 and later.

**Table 7** presents the total number of new light duty motor vehicles purchased, the number and type of vehicles capable of using alternative fuels purchased, and the percentage in compliance as of August 1, 2013.

*Table 7: Model year 2013 Light Duty Vehicle Purchases for Pima and Maricopa Counties by SFE*

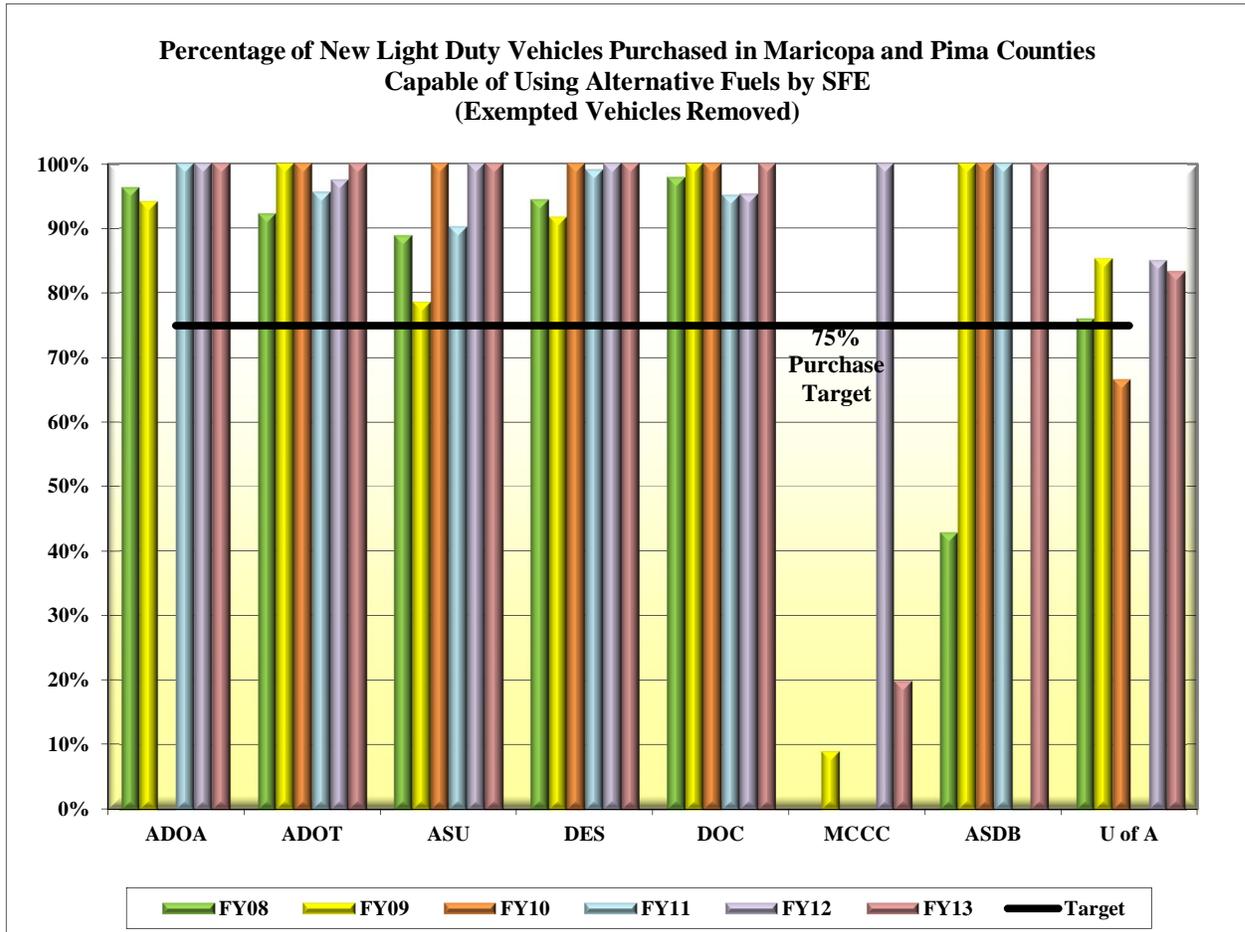
AGENCY NAME	NUMBER OF VEHICLES FY13	ALTERNATIVE FUEL TYPE
Administration, Department of	67	Ethanol
Total 2013 ADOA Alternative Fuel Vehicle Purchases	<b>67</b>	
Total 2013 ADOA New Light Duty Eligible Vehicle Purchases	<b>67</b>	
% Alternative Fuel of Total 2013 Purchases	<b>100.0%</b>	
Arizona State University	11	Electric
Arizona State University	27	Ethanol
Total 2013 ASU Alternative Fuel Vehicle Purchases	<b>38</b>	
Total 2013 ASU New Light Duty Eligible Vehicle Purchases	<b>38</b>	
% Alternative Fuel of Total 2013 Purchases	<b>100.0%</b>	
Attorney General, Office of	0	
Total 2013 Attorney General Alternative Fuel Vehicle Purchases	<b>8</b>	
% Alternative Fuel of Total 2013 Purchases	<b>0.0%</b>	
Criminal Justice Commission	3	Ethanol
Total 2013 ACJC Alternative Fuel Vehicle Purchases	<b>3</b>	
Total 2013 ACJC New Light Duty Eligible Vehicle Purchases	<b>3</b>	
% Alternative Fuel of Total 2013 Purchases	<b>100.0%</b>	
Corrections, Department of	68	Ethanol
Total 2013 ADOC Alternative Fuel Vehicle Purchases	<b>68</b>	
Total 2013 ADOC New Light Duty Eligible Vehicle Purchases	<b>68</b>	
% Alternative Fuel of Total 2013 Purchases	<b>100.0%</b>	
Economic Security, Department of	123	Ethanol
Total 2013 DES Alternative Fuel Vehicle Purchases	<b>123</b>	
Total 2013 DES New Light Duty Eligible Vehicle Purchases	<b>123</b>	
% Alternative Fuel of Total 2013 Purchases	<b>100.0%</b>	
Maricopa County Community College	2	Ethanol
Total 2013 MCC Alternative Fuel vehicle Purchases	<b>2</b>	
Total 2013 MCC New Light Duty Eligible Vehicle Purchases	<b>10</b>	
% Alternative Fuel of Total 2013 Purchases	<b>20.0%</b>	

Pima Community College	0	
Total 2012 PCC Alternative Fuel vehicle Purchases	<b>0</b>	
Total 2012 PCC New Light Duty Eligible Vehicle Purchases	<b>5</b>	
% Alternative Fuel of Total 2012 Purchases	<b>0.0%</b>	
Schools for the Deaf & the Blind	23	Ethanol
Total 2013 ASDB Alternative Fuel Vehicle Purchases	<b>23</b>	
Total 2013 ASDB New Light Duty Eligible Vehicle Purchases	<b>23</b>	
% Alternative Fuel of Total 2013 Purchases	<b>100.0%</b>	
Transportation. Department of	10	Ethanol
Total 2012 ADOT Alternative Fuel Vehicle Purchases	<b>10</b>	
Total 2012 ADOT New Light Duty Eligible Vehicle Purchases	<b>10</b>	
% Alternative Fuel of Total 2012 Purchases	<b>100.0%</b>	
University of Arizona	15	Ethanol
Total 2012 U of A Alternative Fuel Vehicle Purchases	<b>15</b>	
Total 2012 U of A New Light Duty Eligible Vehicle Purchases	<b>18</b>	
% Alternative Fuel of Total 2012 Purchases	<b>83.3%</b>	
Total 2012 Alternative Fuel Vehicle Purchases	<b>349</b>	
Total 2012 New Light Duty Eligible Vehicle Purchases	<b>373</b>	
% Alternative Fuel of Total 2012 Purchases	<b>93.6%</b>	

Table 7 shows there were three state fleets that were not in compliance with the state and federal mandates for purchasing new AFVs.

**Graph 3** illustrates the percentage of new light duty vehicles purchased operating primarily in Maricopa and Pima Counties that were capable of using alternative fuels in FY 2008, 2009, 2010, 2011, 2012 and 2013.

*Graph 3: Percentage of New Vehicles Purchased in Maricopa and Pima Counties Capable of Using Alternative Fuels by SFE*



## Light Duty Vehicles Costs

The fifth reporting requirement is to provide alternative fuels usage data. Data for FY 2013 maintenance costs, gas/diesel costs, and alternative fuel costs was provided by most SFEs.

**Table 8** summarizes this information for the six largest state fleets, excluding the universities and community colleges.

*Table 8: Maintenance and Fuel Costs for Light Duty Vehicles by SFE*

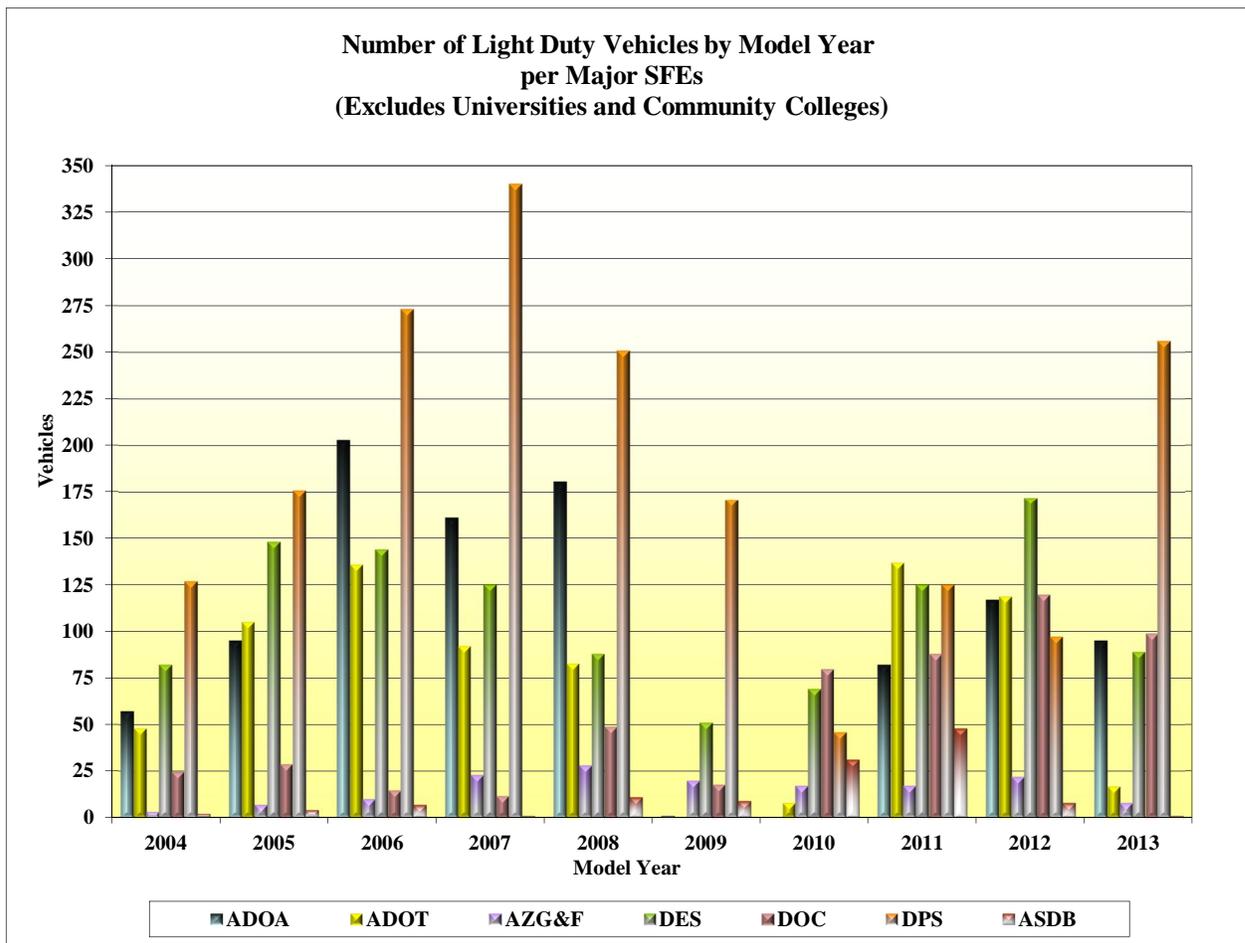
<b>TOTALS FOR LIGHT DUTY VEHICLES</b>			
<b>AGENCY NAME</b>	<b>FY 2013 MAINTENANCE COSTS</b>	<b>FY 2013 GAS/DIESEL COSTS</b>	<b>FY 2013 ALTERNATIVE FUEL COSTS</b>
Administration, Department of	\$ 1,540,114	\$ 2,493,264	\$ 222,422
Corrections, Department of	413,055	2,679,081	91,279
Economic Security, Department of	826,774	2,033,977	22,337
Game and Fish, Arizona	647,820	1,485,863	15,461
Public Safety, Department of	2,157,557	5,176,217	12,697
Transportation, Department of	1,683,731	1,469,415	56,695
<b>Total</b>	<b>\$ 7,269,051</b>	<b>\$ 15,337,817</b>	<b>\$ 420,891</b>

The sixth data requirement is to report maintenance data for all vehicles reported. Data for model years 2004 through 2013 was compiled for the seven largest state fleets, excluding the universities and community colleges. The number of vehicles by model year and SFE is provided in **Table 9** and **Graph 4**.

*Table 9: Number of Light Duty Vehicles by Model Year*

	Model Years											Agency Total
	Prior Years	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
<b>ADOA</b>	296	57	95	203	161	181	1	-	82	117	95	1,288
<b>ADOT</b>	83	48	105	136	92	83	-	8	137	119	17	828
<b>AZG&amp;F</b>	16	3	7	10	23	28	20	17	17	22	8	171
<b>DES</b>	61	82	148	144	125	88	51	69	125	172	89	1,154
<b>DOC</b>	558	25	29	15	12	49	18	80	88	120	99	1,093
<b>DPS</b>	179	127	176	273	340	251	171	46	125	97	256	2,041
<b>ASDB</b>	48	2	4	7	1	11	9	31	48	8	1	170
<b>Yearly Total</b>	1,241	344	564	788	754	691	270	251	622	655	565	6,745

*Graph 4: Light Duty Vehicles by Model Year per Major SFE*

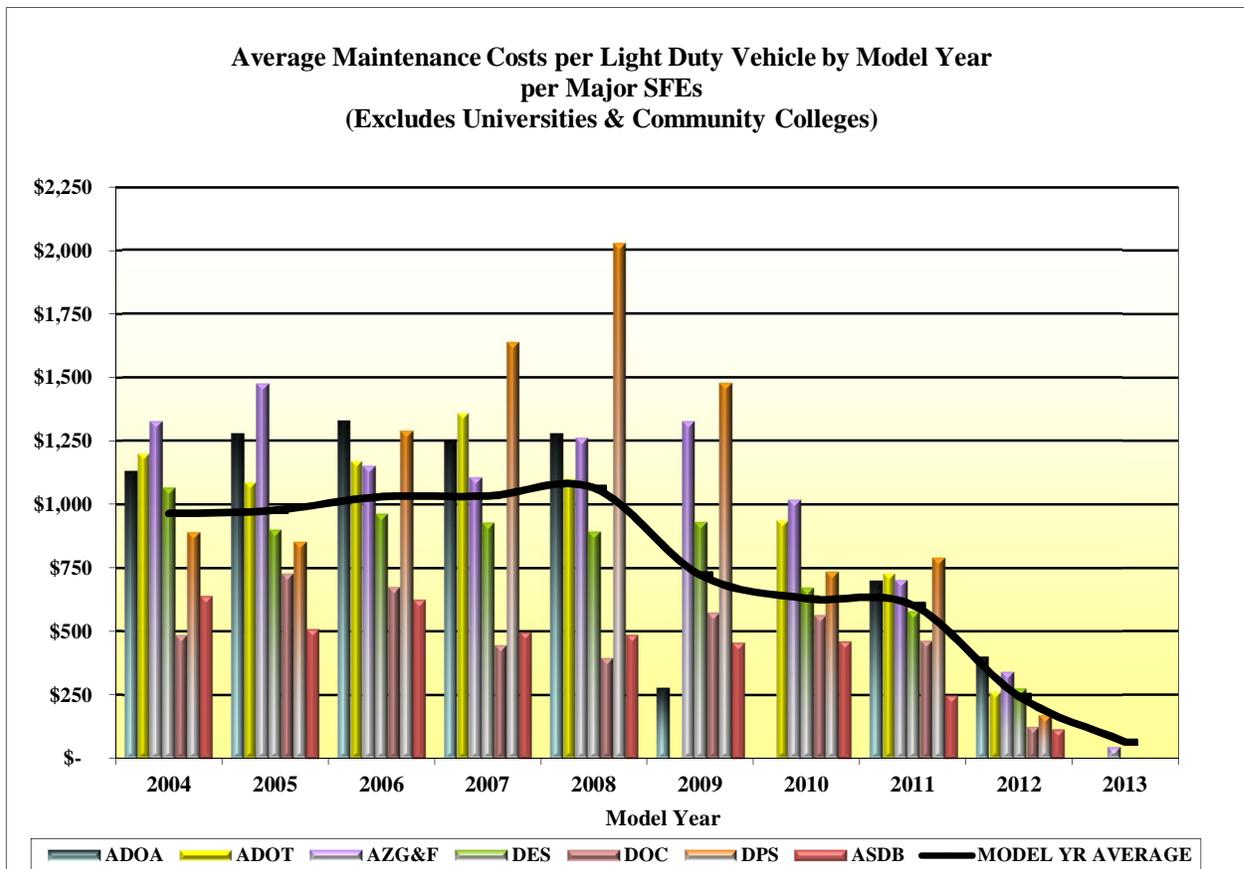


The average FY 2013 maintenance cost per light duty vehicle reported is broken down by model year in **Table 10** and **Graph 5**.

*Table 10: Average Maintenance Cost per Light Duty Vehicle by Model Year*

Average Maintenance Cost per Light Duty Vehicle by Model Year per SFE										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>ADOA</b>	\$1,131	\$1,280	\$1,330	\$1,248	\$1,280	\$ 279	-	\$ 700	\$ 401	\$ 30
<b>ADOT</b>	1,202	1,090	1,172	1,361	1,103	-	940	732	264	6
<b>AZG&amp;F</b>	1,327	1,475	1,153	1,107	1,261	1,327	1,019	703	340	45
<b>DES</b>	1,065	900	963	927	894	932	673	580	275	54
<b>DOC</b>	489	728	676	447	397	575	566	465	128	3
<b>DPS</b>	890	854	1,290	1,638	2,028	1,478	736	790	170	17
<b>ASDB</b>	640	510	627	499	488	459	464	250	118	154
<b>AVERAGE</b>	<b>\$ 963</b>	<b>\$ 977</b>	<b>\$1,030</b>	<b>\$1,032</b>	<b>\$1,064</b>	<b>\$ 721</b>	<b>\$ 628</b>	<b>\$ 603</b>	<b>\$ 242</b>	<b>\$ 63</b>

*Graph 5: Average Maintenance Cost*



In Graph 5, the data illustrates that older vehicles cost more to maintain.

## Compliance of Federal Agencies in Arizona

The seventh data requirement is to provide information gathered from local offices of federal agencies regarding progress made toward implementing state and federal mandates relating to the transition of motor vehicle fleets to alternative fuels. The Federal General Services Administration provided the following data for 2011 (2012 is not yet available):

- 1) 4,705 of 20,368 federal vehicles reported were AFVs, or 23%.

*Table 11: Vehicles Capable of Using Alternative Fuels*

ALTERNATIVE FUEL	NUMBER OF VEHICLES 2011
Compressed Natural Gas	91
Electric	115
Ethanol	4,499
<b>Total AFVs</b>	<b>4,705</b>

- 2) Federal agencies consumed 385,844 GGE of alternative fuels including 54,418 GGE of biodiesel in Arizona.

*Table 12: Alternative Fuel Consumed by Federal Agencies*

ALTERNATIVE FUEL	GGE USED
Biodiesel	54,418
Compressed Natural Gas	174,770
Liquid Propane Gas	5
Ethanol	156,651
<b>Total</b>	<b>385,844</b>

**Other Statistical Data**

A.R.S. § 41-803(S) awards vehicle equivalents for the use of clean burning fuel. The vehicle equivalents are calculated as follows:

- One vehicle equivalent for every 450 gallons of neat biodiesel (B100) or 2,250 gallons of a diesel fuel substitute in vehicles with a gross vehicle weight rating of at least 8500 pounds.
- One vehicle equivalent for every 530 gallons of the fuel prescribed in section 1-215, paragraph 7, subdivision (d).

**Ethanol**

*Table 13: Vehicle Equivalent for Ethanol Gallons Consumed*

SFE NAME	ETHANOL GALLONS USED	VEHICLE EQUIVALENTS
Administration, Department of	77,408	146
Health Care Cost Containment System - AHCCCS	2,096	4
Corrections, Department of	26,546	50
Economic Security, Department of	20,411	39
Transportation, Department of	24,341	46
<b>Total</b>	<b>150,802</b>	<b>285</b>

**Total Vehicle Equivalents = 285 for FY13**