

Chapter 10

Fleet Vehicles and Characteristics

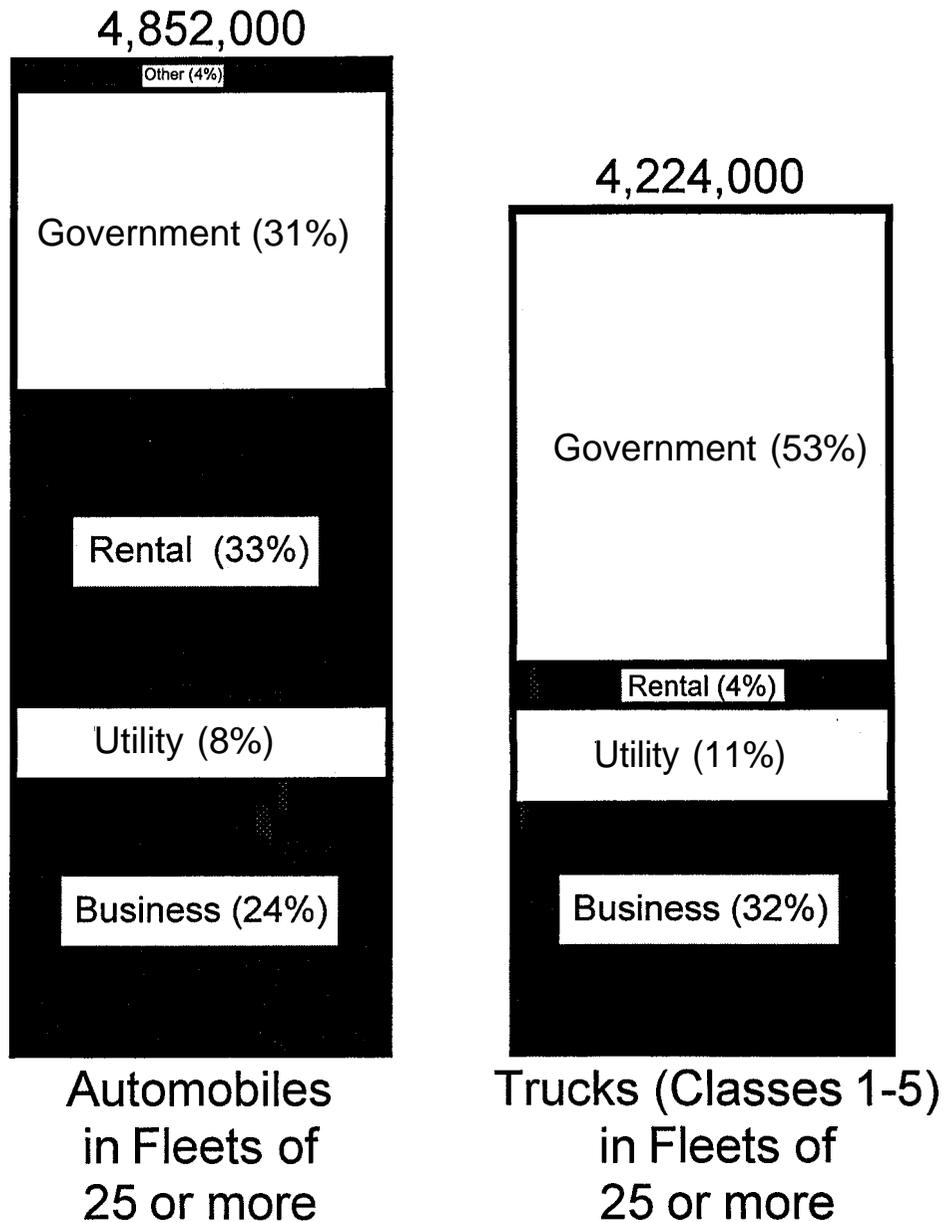
Summary Statistics from Tables/Figures in this Chapter

Source		
Figure 10.1	Fleet automobiles, 1998	4,852,000
Figure 10.1	Fleet Class 1-5 Trucks, 1998	4,224,000
Table 10.4	Average annual miles per automobile	
	<i>Business fleets</i>	29,200
	<i>Utility fleets</i>	14,500
	<i>Government fleets</i>	13,700
Table 10.5	Federal Government vehicles, FY 1996	550,373
	<i>Automobiles</i>	113,366
	<i>Buses</i>	6,376
	<i>Light trucks</i>	381,525
	<i>Medium trucks</i>	32,281
	<i>Heavy trucks</i>	16,825



Significant changes have been made in recent years to fleet vehicle estimations. Newly available data improve the accuracy of fleet vehicle estimates but, at the same time, make it impossible to compare the data historically. Therefore, only the 1998 data are presented here.

Figure 10.1. Fleet Vehicles in Service as of January 1, 1998



Source:

Bobit Publishing Company, Automotive Fleet Research Department, *Automotive Fleet Factbook 1998*, Redondo Beach, CA, 1998. (Additional resources: <http://www.fleet-central.com>)

Note:

Truck classes 1-5 are 19,500 lbs. and less.



These are the top ten states in terms of fleets and fleet vehicles, according to Dwight's Energydata, Denver, CO. Autos and light trucks make up the largest share of fleet vehicles in each of the states. The average number of vehicles per fleet is the highest in Florida and California.

Table 10.1
Top Ten States with Fleets of Ten Vehicles or More, 1999

States	Fleets of ten vehicles or more	Fleet vehicles				Total	Average vehicles per fleet ^a
		Autos	Trucks (class 1-2)	Trucks (class 3-5)	Trucks (class 6-8)		
California	12,005	474,627	443,869	205,883	321,332	1,457,716	121
Texas	8,851	260,885	262,270	107,599	247,960	887,565	100
New York	6,706	227,144	191,415	78,215	182,015	685,495	102
Pennsylvania	5,973	166,880	148,086	52,840	179,086	552,865	93
Florida	5,986	233,209	208,919	88,230	199,408	735,752	123
Illinois	5,653	178,939	149,886	76,441	179,770	590,689	104
Ohio	5,418	177,830	130,846	60,350	163,627	538,071	99
Michigan	3,945	149,536	103,684	53,670	104,373	415,208	105
New Jersey	3,919	139,327	121,717	35,172	119,839	419,974	107
North Carolina	3,821	102,047	109,667	38,342	142,354	396,231	104

Source:

Bobit Publishing Company, Automotive Fleet Industry Statistics web site:

[http://www.fleet-central.com/AF/Resources/Stats/chart3 .htm](http://www.fleet-central.com/AF/Resources/Stats/chart3.htm). Original data source: Dwight's Energydata, Denver, CO. (Additional resources: <http://www.fleet-central.com/AF>)

^aCalculated as the ratio of total fleet vehicles to total fleets.



These fleet data, which were generated from a 1991-92 ORNL study, are still the latest available data of this kind.

Table 10.2
Fleet Vehicle Composition by Vehicle Type, 1991
(percent)

Fleet type	Cars	Light trucks ^a and vans	Medium trucks ^b	Heavy trucks ^c	Total
Business	24.2%	21.1%	45.8%	8.9%	100%
Utility	22.6%	39.0%	15.0%	23.4%	100%
Government	48.5%	42.8%	6.8%	1.8%	100%

Table 10.3
Average Length of Time Fleet Vehicles are Kept Before Sold to Others, 1991
(months)

	Business	Utility	Government
Cars	35	68	81
Light trucks ^a	56	60	82
Medium trucks ^b	83	86	96
Heavy trucks ^c	103	132	117

Table 10.4
Average Annual and Daily Vehicle-Miles of Travel for Fleet Vehicles, 1991

Vehicle type	Business		Utility		Government	
	Miles/year (thousands)	Miles/day @250 days/year	Miles/year (thousands)	Miles/day @250 days/year	Miles/year (thousands)	Miles/day @250 days/year
Cars	29.2	117	14.5	58	13.7	55
Light trucks ^a	26.6	106	17.5	70	13.9	56
Medium trucks ^b	17.5	70	11.8	47	11.9	48
Heavy trucks ^c	64.4	258	13.8	55	10.7	43

Source:

Miaou, S. P., et. al., *Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices*, (ORNL-6717), Oak Ridge National Laboratory, Oak Ridge, TN, May 1992.
(Additional resources: <http://www-cta.ornl.gov>)

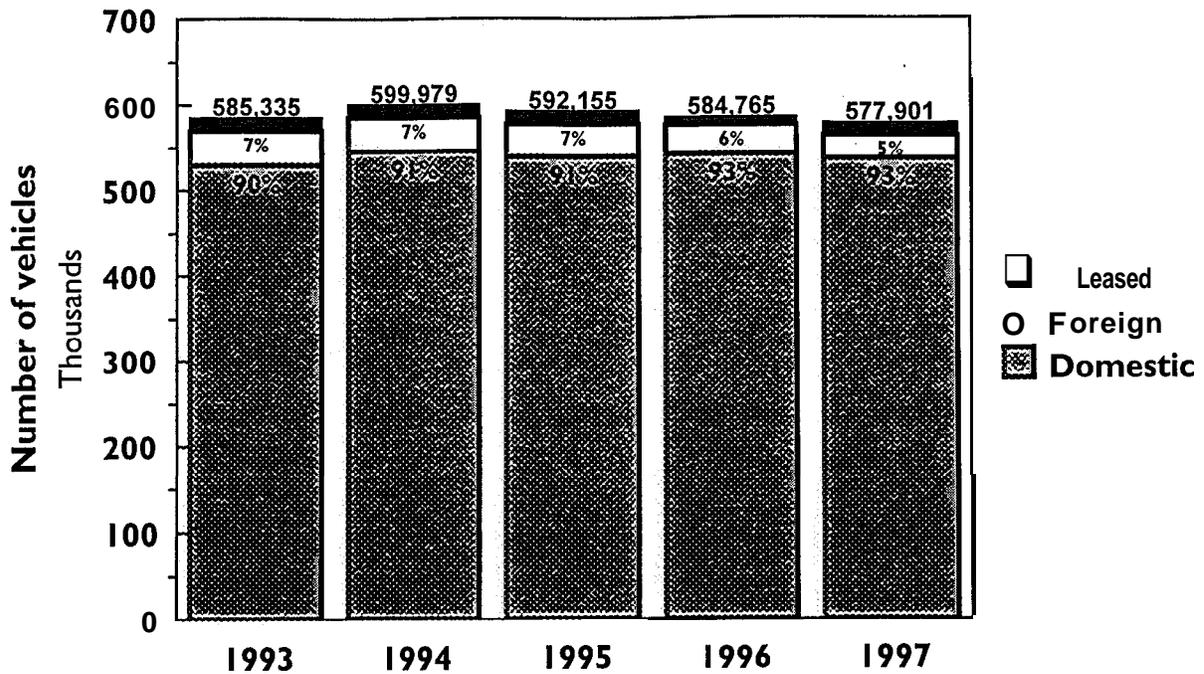
^aIn this study, light trucks are <8,500 lbs gross vehicle weight.

^bIn this study, medium trucks are between 8,500–26,000 lbs gross vehicle weight.

^cIn this study, heavy trucks are >26,000 lbs gross vehicle weight.



Figure 10.2. Worldwide Federal Inventory, 1992-97

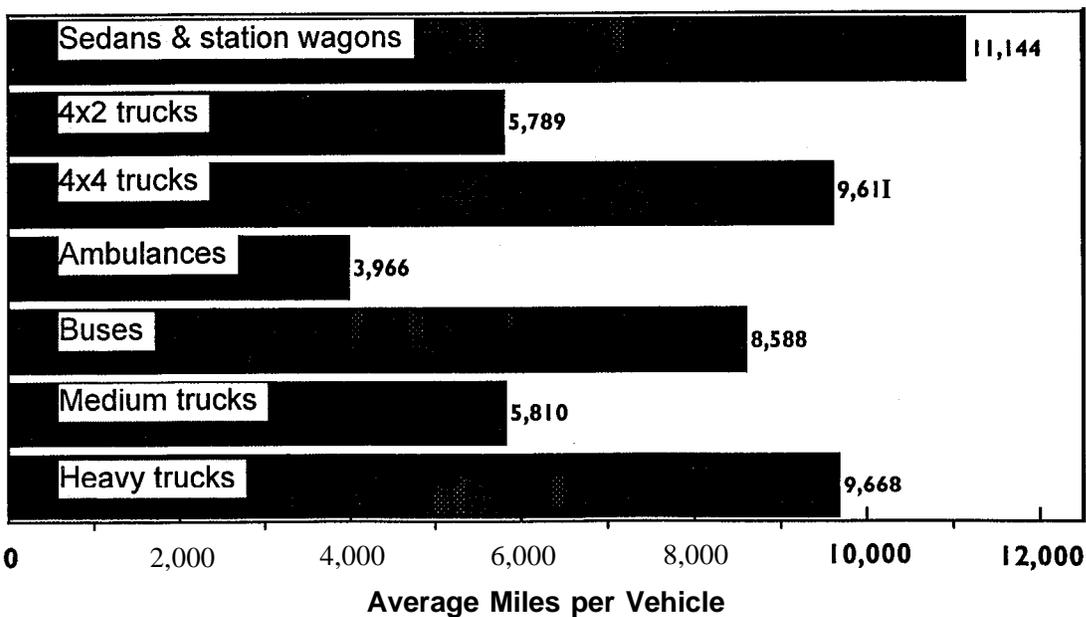


Source:

U.S. General Services Administration, Federal Vehicle Policy Division, *FY 1997 Federal Fleet Report*, Washington, DC, 1999, Tables 1 and 12.

(Additional resources: <http://policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm>)

Figure 10.3. Average Miles per Federal Vehicle by Vehicle Type, 1997



Source:

U.S. General Services Administrations, Federal Vehicle Policy Division, *FY 1997 Federal Fleet Report*, Washington, DC, 1999, Table 5.

(Additional resources: <http://policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm>)



Table 10.5
Federal Government Vehicles by Agency, Fiscal Year 1997^a

Department or Agency	Autos	Buses	Light trucks ^b	Medium trucks ^c	Heavy trucks ^d	Total
Department of Agriculture	3,273	42	24,614	5,247	602	33,778
Department of Commerce	144	2	416	228	12	802
Department of Education	1	0	2	0	0	3
Department of Energy	784	164	3,606	919	794	6,267
Department of Health & Human	89	7	326	147	58	6 2 7
Department of Housing & Urban Dev.	3	0	1	0	0	4
Department of Justice	25,190	314	12,742	976	271	39,493
Department of Labor	19	1	144	14	3	181
Department of State	103	0	84	0	11	198
Department of Interior	1,374	80	9,160	3,506	1,420	15,540
Department of Treasury	10,960	18	3,760	307	96	15,141
Department of Transportation	30	16	411	96	67	620
Department of Veterans Affairs	470	120	1,036	243	115	1,984
Environmental Protection Agency	57	0	233	70	15	3 7 5
Federal Communications Comm	55	0	63	2	0	120
Federal Emergency Mgmt Agency	28	6	253	25	0	312
General Services Administration ^e	54,263	2,932	88,808	3,636	3,707	153,346
Natl Aeronautics & Space Admin.	103	43	806	326	75	1,353
Small Business Administration	115	0	0	0	0	115
Tennessee Valley Authority	427	0	1,012	999	226	2,664
Others	94	19	396	37	50	596
CIVILIAN AGENCIES	97,582	3,764	147,873	16,778	7,522	273,519
U.S. POSTAL SERVICE	9,342	6	180,346	9,293	4,927	203,914
Department of the Air Force	2,591	1,191	22,679	970	2,348	29,779
Department of the Army	124	26	247	163	122	682
Department of the Navy	2,845	677	22,756	1,379	2,340	29,997
Other Defense Agencies	283	25	1,988	110	116	2,522
Corps of Engineers	223	4	2,410	575	311	3,523
U.S. Marine Corps	470	355	3,375	549	293	5,042
MILITARY AGENCIES	6,536	2,278	53,455	3,746	5,530	71,545
TOTAL	113,460	6,048	381,674	29,817	17,979	548,978

Source:

U.S. General Services Administration, Federal Supply Service, *FY 1997 Federal Fleet Report*, Washington, DC, 1999, Table 14. (Additional resources: <http://policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm>)

^a Federally-owned and commercially-leased vehicles.

^b Less than 8,500 lbs GVWR. Includes ambulances.

^c 8,501–23,999 lbs GVWR.

^d 24,000 lbs. Or more GVWR.

^e GSA Fleet vehicles.



Table 10.6
Federal Fleet Vehicle Acquisitions
by Fuel Type, FY 1997^a

Vehicle acquisitions	
Gasoline	14,097
Diesel	489
Natural gas	172
E-85	160
Electricity	139
Other	12
M-85	9
LPG	1
Biodiesel	0
Hydrogen	0
Total	15,079

Source:

U.S. General Services Administrations, Federal Vehicle Policy Division, *FY 1997 Federal Fleet Report*, Washington, DC, 1999, Table 18.

(Additional resources: <http://policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm>)

Table 10.7
Fuel Consumed by Federal Government Fleets, FY 1997^a

Thousand gasoline equivalent gallons	
Gasoline	280,051
Diesel	64,834
NG	4,076
Electricity	287
Biodiesel	186
Methanol	151
M-85	137
LPG	37
Ethanol	19
Total	349,780

Source:

U.S. General Services Administrations, Federal Vehicle Policy Division, *FY 1997 Federal Fleet Report*, Washington, DC, 1999, Table 6.

(Additional resources: <http://policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm>)

^aThese data are reported under new requirements for FY 1997. Data for some agencies may be missing or incomplete.



The Energy Policy Act of 1992 (EPACT) set alternative fuel vehicle acquisition requirements for Federal and State Governments, fuel providers and the private sector. Additional rule making has adjusted the original purchase requirements. State government and fuel providers requirements began in 1997.

Table 10.8
Energy Policy Act Purchase Requirements of Light Alternative Fuel Vehicles

Year	F e d e r a l	State	Fuel providers	Private ^a
1993	5,000	-		
1994	7,500	-	-	-
1995	10,000	-	-	-
1996	25%			
1997	33%	10%	30%	
1998	50%	15%	50%	
1999	75%	25%	70%	
2000	75%	50%	90%	
2001	75%	75%	90%	
2002	75%	75%	90%	20%
2003	75%	75%	90%	40%
2004	75%	75%	90%	60%
2005	75%	75%	90%	70%
2006-on	75%	75%	90%	70%

Source:

Final rule for the alternative fuels transportation programs, *Federal Register*, Vol. 61, p. 10622, March 14, 1996.

Private alternative fueled vehicle acquisition requirements for private and local government fleets, *Federal Register*, vol. 62, p. 19701, April 23, 1997.

Note:

The Department of Energy has provided an Alternative Fuel Vehicles Acquisitions and Credits Database on the Internet to provide fleet managers with a convenient way to report their compliance with this mandate. (<http://www.ott.doe.gov/credits>)

“Additional rule making is required by January 1, 2000, for private AFV requirements to take effect.

