

Chapter 10

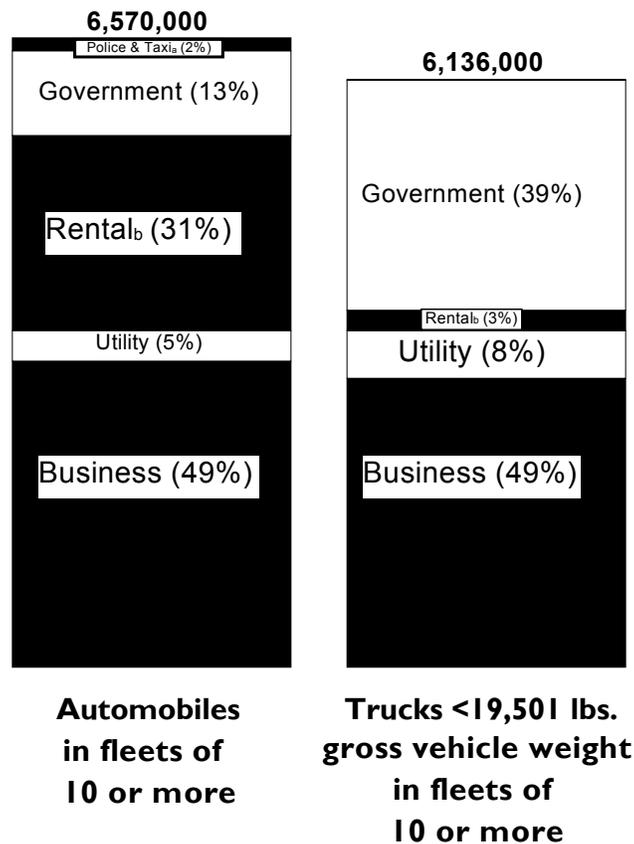
Fleet Vehicles and Characteristics

Summary Statistics from Tables/Figures in this Chapter

Source		
Figure 10.1	Fleet automobiles, 2000	6,570,000
Figure 10.1	Fleet trucks \leq 19,500 lbs. GVW, 2000	6,136,000
Table 10.3	Average annual miles per automobile	
	<i>Business fleets</i>	29,200
	<i>Utility fleets</i>	14,500
	<i>Government fleets</i>	13,700
Table 10.3	Average annual miles per light truck (<8,500 lbs. GVW)	
	<i>Business fleets</i>	26,600
	<i>Utility fleets</i>	17,500
	<i>Government fleets</i>	13,900
Table 10.4	Federal government vehicles, FY 1998	547,534
	<i>Automobiles</i>	111,990
	<i>Buses</i>	6,051
	<i>Light trucks (<8,500 lbs. GVW)</i>	357,592
	<i>Medium trucks (8,500–26,000 lbs. GVW)</i>	54,033
	<i>Heavy trucks (>26,000 lbs. GVW)</i>	17,898

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 2000 data are presented here.

Figure 10.1. Fleet Vehicles in Service as of February 1, 2000



Source:

Bobit Publishing Company, Automotive Fleet Research Department, *Automotive Fleet Factbook 2001*, Redondo Beach, CA, 2001. (Additional resources: www.fleet-central.com)

^aTaxi category includes vans.

^bRental category includes vans and sports utility vehicles under **automobiles**, not trucks.

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

Table 10.1
Fleet Vehicle Composition by Vehicle Type, 1991
(percent)

	Business	Utility	Government
Cars	24.2%	22.6%	48.5%
Light trucks ^a and vans	21.1%	39.0%	42.8%
Medium trucks ^b	45.8%	15.0%	6.8%
Heavy trucks ^c	8.9%	23.4%	1.8%
Total	100.0%	100.0%	100.0%

Table 10.2
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 10.3
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: www-cta.ornl.gov)

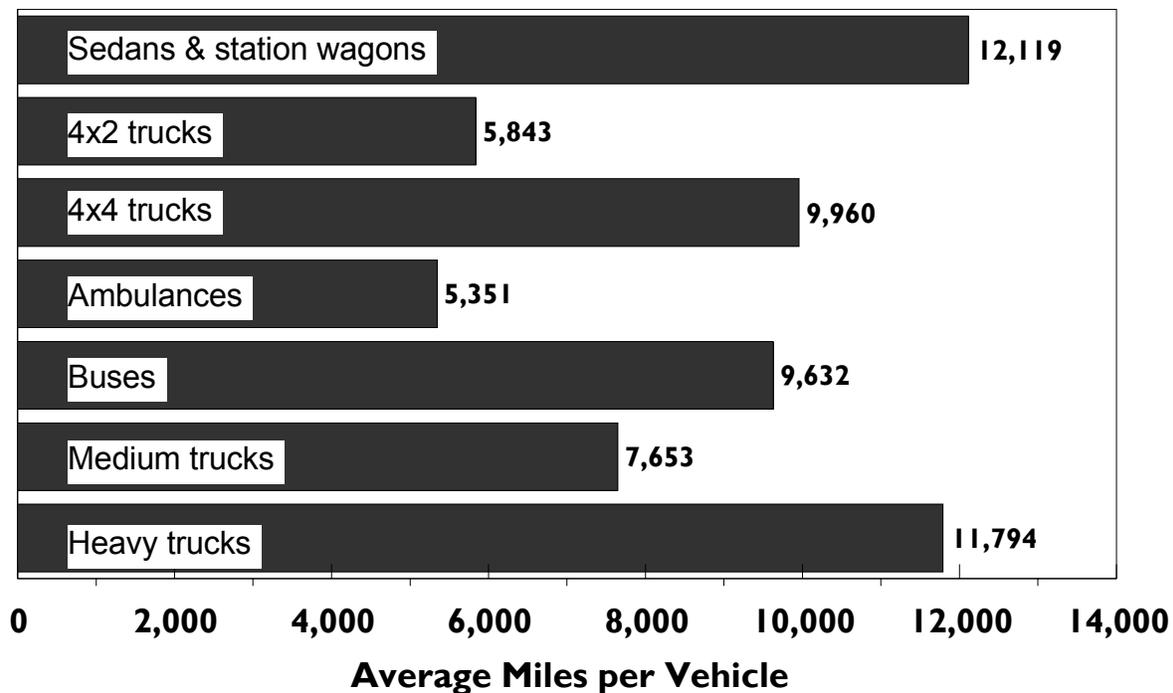
^aIn this study, light trucks are <8,500 lbs gross vehicle weight.

^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.

These data, which apply to domestic Federal fleet vehicles, indicate that sedans and station wagons have the highest average annual miles per vehicle, followed closely by heavy trucks. There is a 4000-mile difference in the average for 4x2 light trucks as opposed to 4x4 light trucks.

Figure 10.2. Average Miles per Domestic Federal Vehicle by Vehicle Type, 1998



Source:

U.S. General Services Administrations, Federal Vehicle Policy Division, *FY 1998 Federal Fleet Report*, Washington, DC, 2000, Table 5.

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

Table 10.4
Federal Government Vehicles by Agency, Fiscal Year 1998^a

Department or Agency	Autos	Buses	Light trucks ^b	Medium trucks ^c	Heavy trucks ^d	Total
Appalachian Regional Commission	1	0	0	0	0	1
Commodity Futures Trading Commission	1	0	1	0	0	2
Consumer Product Safety Commission	1	0	1	0	0	2
Department of Agriculture	3,211	41	24,433	5,235	614	33,534
Department of Commerce	162	2	419	216	14	813
Department of Education	1	0	2	0	0	3
Department of Energy	761	156	3,496	832	492	5,737
Department of Health & Human Services	83	7	366	115	108	679
Department of Housing & Urban Development	3	0	1	0	0	4
Department of Justice	21,170	360	13,823	1,056	273	36,682
Department of Labor	27	1	144	15	3	190
Department of State	103	0	84	0	11	198
Department of Interior	1,324	73	9,513	3,535	1,766	16,211
Department of Treasury	11,205	15	4,393	249	89	15,951
Department of Transportation	50	18	362	120	76	626
Department of Veterans Affairs	257	86	1,310	218	93	1,964
Environmental Protection Agency	16	2	156	64	7	245
Equal Employment Opportunity Commission	1	0	0	0	0	1
Executive Office of the President	53	0	2	16	0	71
Federal Communications Commission	60	0	64	1	0	125
Federal Election Commission	0	0	1	0	0	1
Federal Emergency Management Agency	27	6	135	3	24	195
Federal Mediation and Conciliation Service	1	0	0	0	0	1
General Services Administration ^e	55,227	3,100	68,566	28,824	3,743	159,460
Government Printing Office	7	0	49	0	0	56
International Boundary & Water Commission	3	0	19	5	35	62
Library of Congress	1	0	0	0	0	1
National Aeronautics & Space Administration	96	9	394	196	54	749
National Gallery of the Arts	1	0	0	0	2	3
National Labor Relations Board	1	0	0	0	0	1
National Science Foundation	1	7	33	7	20	68
Nuclear Regulatory Commission	6	0	0	0	0	6
Office of Personnel Management	4	0	0	0	0	4
Securities and Exchange Commission	1	0	1	0	0	2
Small Business Administration	108	0	0	0	0	108
Smithsonian Institution	14	3	149	0	13	179
Social Security Administration	2	0	1	0	1	4
Tennessee Valley Authority	647	0	1,053	931	279	2,910
United States Information Agency	6	0	16	3	2	27
United States International Trade Commission	1	0	0	0	0	1
U.S. Soldiers' & Airmen Retirement Home	3	2	1	4	2	12
CIVILIAN AGENCIES	94,647	3,888	128,988	41,645	7,721	276,889
U.S. POSTAL SERVICE	9,396	5	178,725	8,779	4,774	201,679
Department of the Navy	3,049	629	20,516	974	2,090	27,258
Department of the Army	87	44	2,053	623	302	3,109
Department of the Air Force	2,490	1,184	23,027	1,004	2,304	30,009
Defense Agencies	1,975	13	691	114	145	2,938
Corps of Engineers	81	2	1,358	379	210	2,030
U.S. Marine Corps	265	286	2,234	515	322	3,622
MILITARY AGENCIES	7,947	2,158	49,879	3,609	5,373	68,966
TOTAL	111,990	6,051	357,592	54,033	17,868	547,534

Source:

U.S. General Services Administration, Federal Supply Service, *FY 1998 Federal Fleet Report*, Washington, DC, 2000, Table 14. (Additional resources: policyworks.gov/org/main/mt/homepage/mtv/mtvhp.htm)

^a Federally-owned and commercially-leased domestic 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. Some of these are foreign-based; most are leased by other Federal agencies.

Table 10.5
Federal Fleet Vehicle Acquisitions
by Fuel Type, FY 1997–98^a

	FY97	FY98
Gasoline	14,097	48,338
Diesel	489	2,503
Natural gas	172	1,139
Ethanol/E-85	160	3,015
Electricity	139	36
Other	12	0
Methanol/M-85	9	104
LPG	1	91
Biodiesel	0	0
Hydrogen	0	0
Total	15,079^a	55,226

Source:

U.S. General Services Administrations, Federal Vehicle Policy Division, *FY 1998 Federal Fleet Report*, Washington, DC, 2000, Table 18.

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

Table 10.6
Fuel Consumed by Federal Government Fleets, FY 1997–98^a
(thousand gasoline equivalent gallons)

	FY97	FY98
Gasoline	280,051	261,541
Diesel	64,834	58,272
NG	4,076	5,671
Electricity	287	83
Biodiesel	186	11
Methanol/M-85	289	251
LPG	37	43
Ethanol/E-85	19	3,708
Total	349,780^a	329,775

Source:

U.S. General Services Administrations, Federal Vehicle Policy Division, *FY 1998 Federal Fleet Report*, Washington, DC, 2000, Table 6.

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

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

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

Table 10.7
Energy Policy Act Purchase Requirements of Light Alternative Fuel Vehicles

Year	Federal	State	Alternative 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. (www.ott.doe.gov/credits)

^aThe Department of Energy is presently considering implementation of private and municipal fleet rule making.