

Chapter 8

Characteristics of Longer Trips

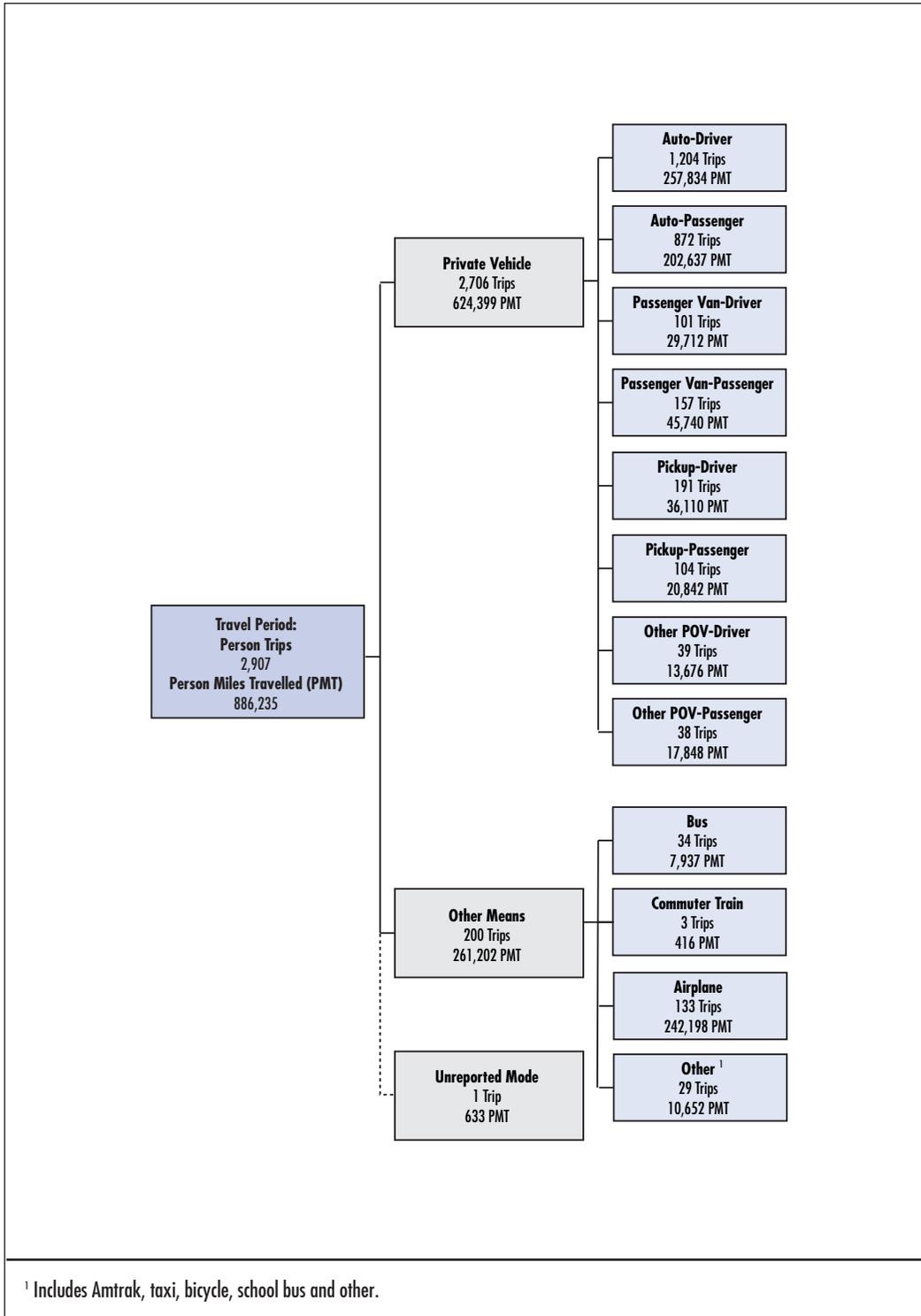


In 1990, long-distance travel accounted for 18% of the total vehicle miles of travel.

- Most were by personal vehicles for social and recreational purposes during spring and summer months.
- Increased with household income.
- Two-thirds was less than 200 miles long.
- Destinations depended on the size of the origins.

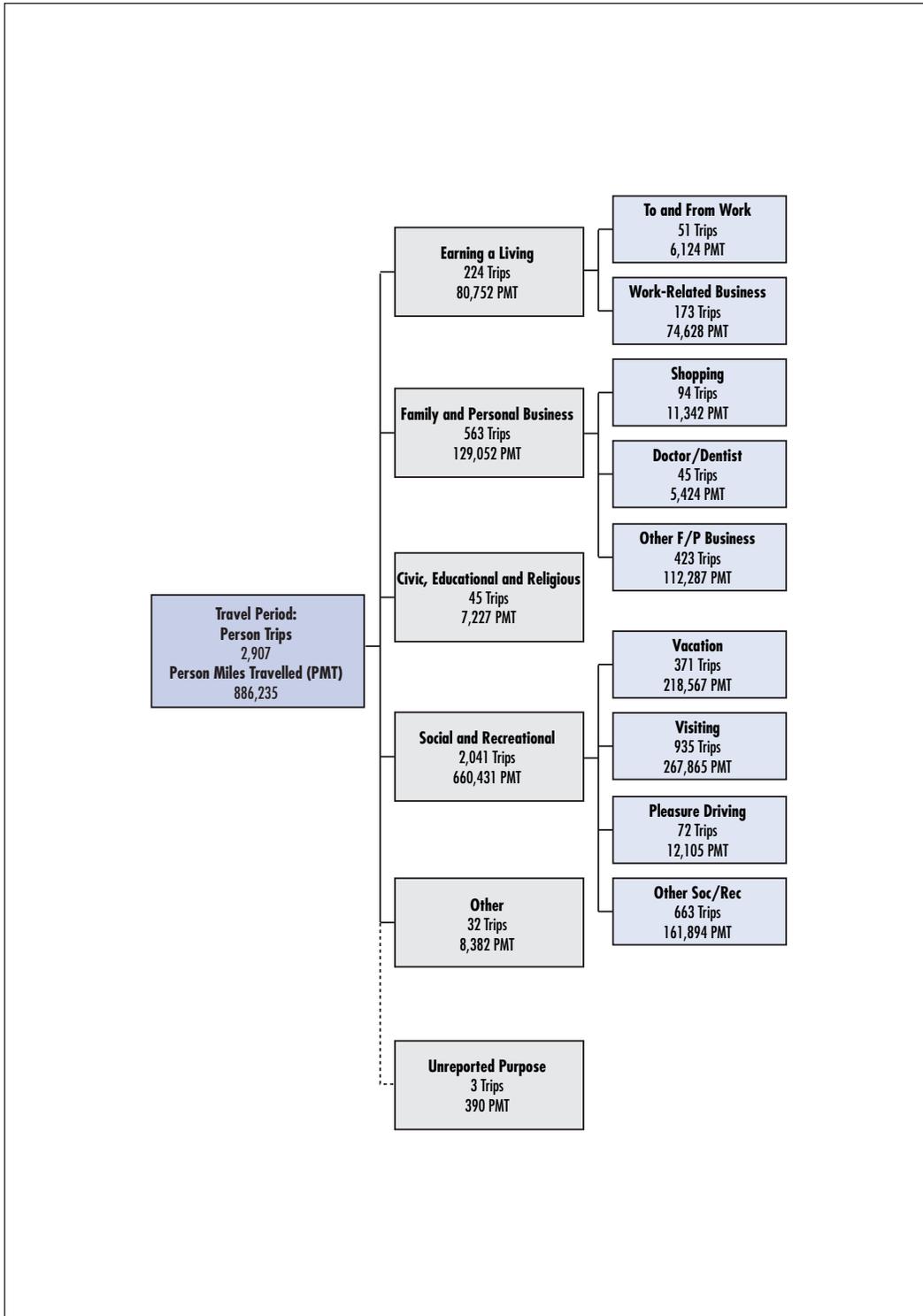
1990 TRAVEL PERIOD PERSON TRIPS/PMT BY MODE

(MILLIONS)



1990 TRAVEL PERIOD PERSON TRIPS/PMT BY PURPOSE

(MILLIONS)

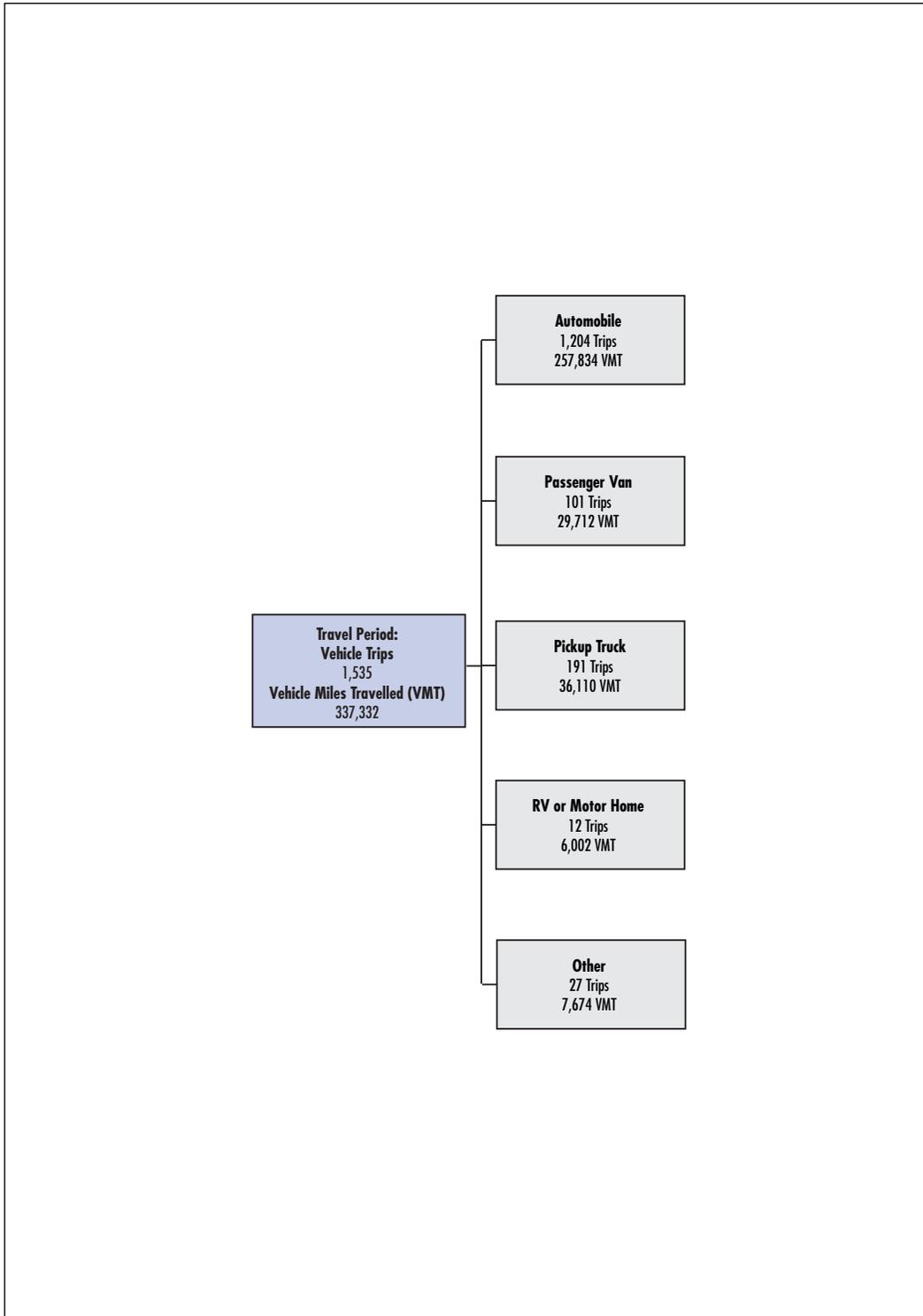


CHARACTERISTICS OF LONGER TRIPS

1990 TRAVEL PERIOD *VEHICLE TRIPS/VMT* BY VEHICLE TYPE

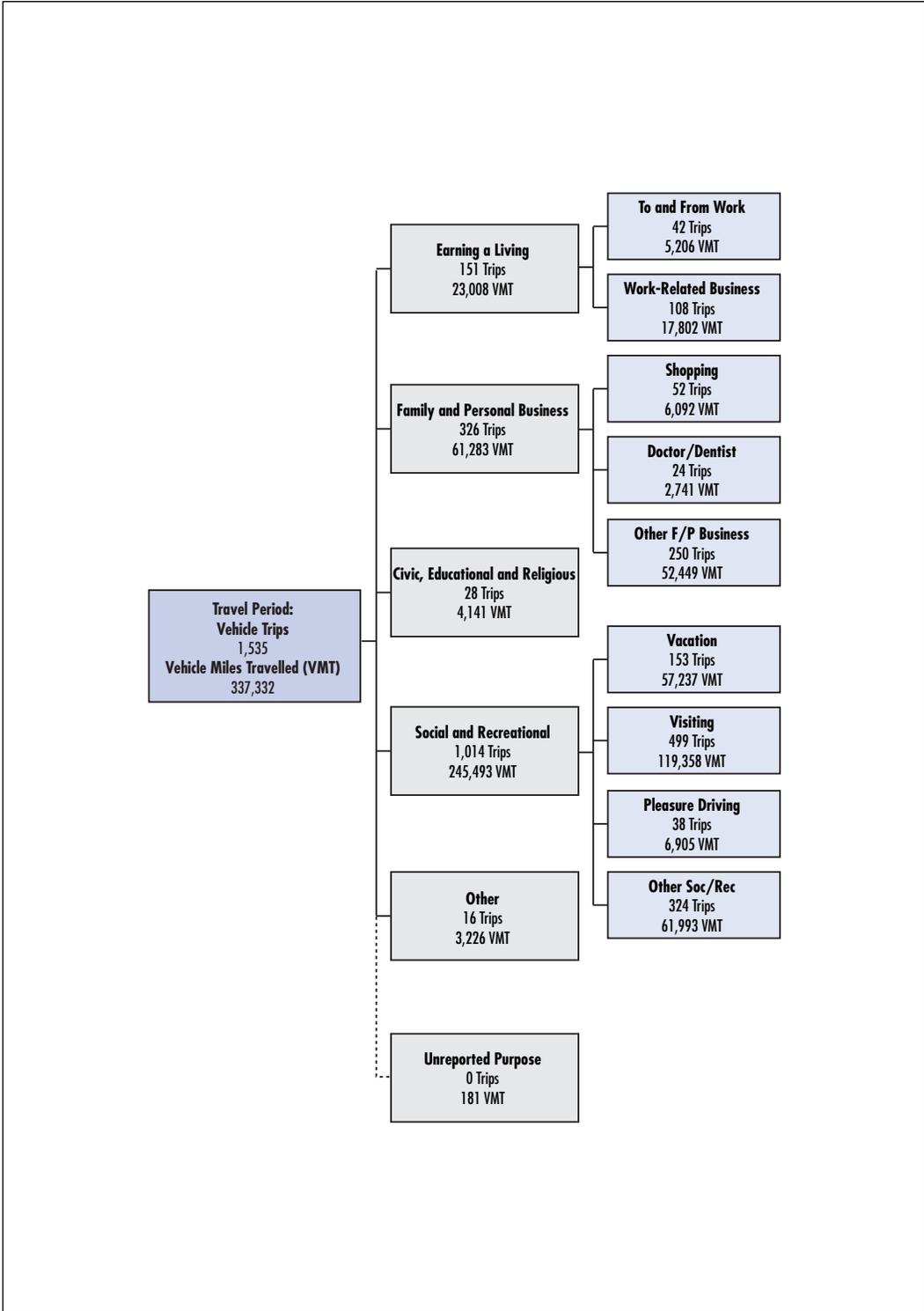
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CHARACTERISTICS OF LONGER TRIPS



1990 TRAVEL PERIOD *VEHICLE TRIPS/VMT BY PURPOSE*

(MILLIONS)



CHARACTERISTICS OF LONGER TRIPS

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Chapter 8 Characteristics of Longer Trips

IN one section of the 1990 NPTS questionnaire, data were collected on longer trips. A long trip is defined as a trip that meets the following two criteria: (1) the trip is 75 miles or longer one-way, and (2) the respondent returned home during the travel period (the fourteen-day period ending on the travel day). Trips collected in this section of the questionnaire are referred to as “travel period trips”. The recall period for the travel period was fourteen days in order to collect a sufficient number of long trips for analysis.

Data on travel period trips were collected for all household members 5 years or older. As noted earlier, data on household members between the ages of 5 and 13 were provided by a knowledgeable household member 14 years or older.

Furthermore, proxy interviews were allowed in the 1990 survey if household members 14 years or older could not be reached after repetitive contacts.

Information was collected on trip destination, trip purpose, main means of transportation, number of persons travelling together, number of miles driven, the household vehicle used for the trip (if a household vehicle was used), etc. Similar information was obtained for both the outgoing and return portions of each trip.

Long-distance travel is considerably less frequent than typical daily travel. Estimates of long-distance travel based on data collected in the travel period section cannot be annualized, on a per household or per capita basis, as simply as annualizing daily trips collected in the travel day section. To predict the average number of long-distance trips taken in a year based on travel patterns observed in a two-week period, one needs to take into account not only travelers’ demographics, household characteristics, and vehicle ownership patterns, but also trip purposes and sea-

sonality effects. For example, if the two-week travel period for a household was during summer months, it would be erroneous to assume that long-distance travel patterns throughout the year for this household would follow patterns similar to those collected in the summer months. Consequently, one should not estimate long-distance trip rates on a per household or per capita basis without developing a statistical procedure to accurately annualize the data.

The 1990 NPTS survey estimated that:

- There were 1.5 billion travel-period vehicle trips, and 2.9 billion travel-period person trips taken in 1990;
- These trips amounted to 337 billion vehicle miles of travel and 886 billion person miles of travel;
- Average length of a one-way travel-period vehicle trip was 220 miles;
- High income households tended to take more travel period trips and more travel period trips for work-related purposes than households in other income groups;
- Almost 90 percent of the households with a single retired adult and with no children did not take any long trips during the two-week recall period, while the corresponding percentage was 64 percent for households with two or more adults and with their youngest children between the ages 16 and 21;
- The majority of travel-period trips were by privately owned vehicles for social and recreational purposes during the spring and summer; and
- Sixty-eight percent of the travel-period trips were to places less than 200 miles from home.

Due to definitional differences, straightforward comparison cannot be made between trip estimates based on the NPTS data and trip estimates based on the 1990 National Travel Survey (NTS) conducted by the U.S. Travel Data Center. First, a trip in the NTS consists of both outgoing and return portions of the trip, while the NPTS considers the outgoing trip and the return trip as separate trips. Second, a trip in the NTS is at least 100 miles long while a trip in the NPTS's travel period section is at least 75 miles long one-way. Third, journeys to work and trips taken by students to and from school are not included in the NTS. Fourth, the trip purpose

categories used in each survey are not identical. To maximize the compatibility between these two surveys, trips recorded in the travel period section of the 1990 NPTS questionnaire are modified to be consistent as much as possible with those in the NTS -- (1) both outgoing and return portions of the trip are counted as one trip, (2) only trips 100 miles long one-way are included, and (3) journeys to work are excluded. Although Tables 8.1 and 8.2 provide some comparisons of trip estimates based on these two surveys, the reader is cautioned in interpreting these comparisons.

TABLE 8.1
COMPARISONS OF LONG-DISTANCE PERSON TRIPS BASED ON NTS DATA AND NPTS DATA BY TRIP PURPOSE
1990 NPTS AND NTS

	NTS Data ¹	NPTS Data ²
Projected Person Trips (000,000)	1,274.5	1,052.1
Business	16% ³	5.9% ⁴
Civic, Educational or Religious	** ⁵	1.1%
Social, Recreational or Pleasure	76%	73.6%
Family and Personal Business or Other	7% ⁶	19.3%
Unreported	**	0.1%

¹ Source: 1990 National Travel Survey, conducted by the U.S. Travel Data Center, Washington, D.C.

² NPTS data are adjusted to conform to NTS's definition of "a trip".

³ Includes any trip where the purpose of the trip is given as "business, convention, seminar or meeting".

⁴ Includes work related trips only.

⁵ NTS data does not include any trips taken by students to or from school.

⁶ Includes medical, funeral, wedding and other.

** Indicates no data reported.

TABLE 8.2

**COMPARISONS OF LONG-DISTANCE PERSON TRIPS BASED ON NTS DATA AND NPTS DATA
BY MODE OF TRANSPORTATION
1990 NPTS AND NTS**

	NTS Data ¹	NPTS Data ²
Projected Person Trips (000,000)	1,274.5	1,052.1
PRIVATE VEHICLE		
Auto, Truck, RV	79% ³	79.4%
Van	**	9.3%
Other Private Vehicle	**	0.3%
OTHER		
Airplane	17% ⁴	6.0%
Bus	2%	1.4%
Train	1%	0.04%
Other	1%	0.8%
Unreported	**	2.8% ⁵
¹ Source: 1990 National Travel Survey, conducted by the U.S. Travel Data Center, Washington, D.C.		⁵ Includes some trips where mode was unable to be determined because a different mode was used for either the outgoing portion or the return portion of the trip.
² NPTS data are adjusted to conform to NTS's definition of "a trip".		^{**} Indicates no data reported.
³ Includes rental cars..		
⁴ Includes any trip in which the one type of transportation used to cover most of the miles on that trip is given as "airplane".		

In order to understand longer trips in the total context of travel, Table 8.3 presents summary data showing the distribution of travel by travel day (typically daily travel),

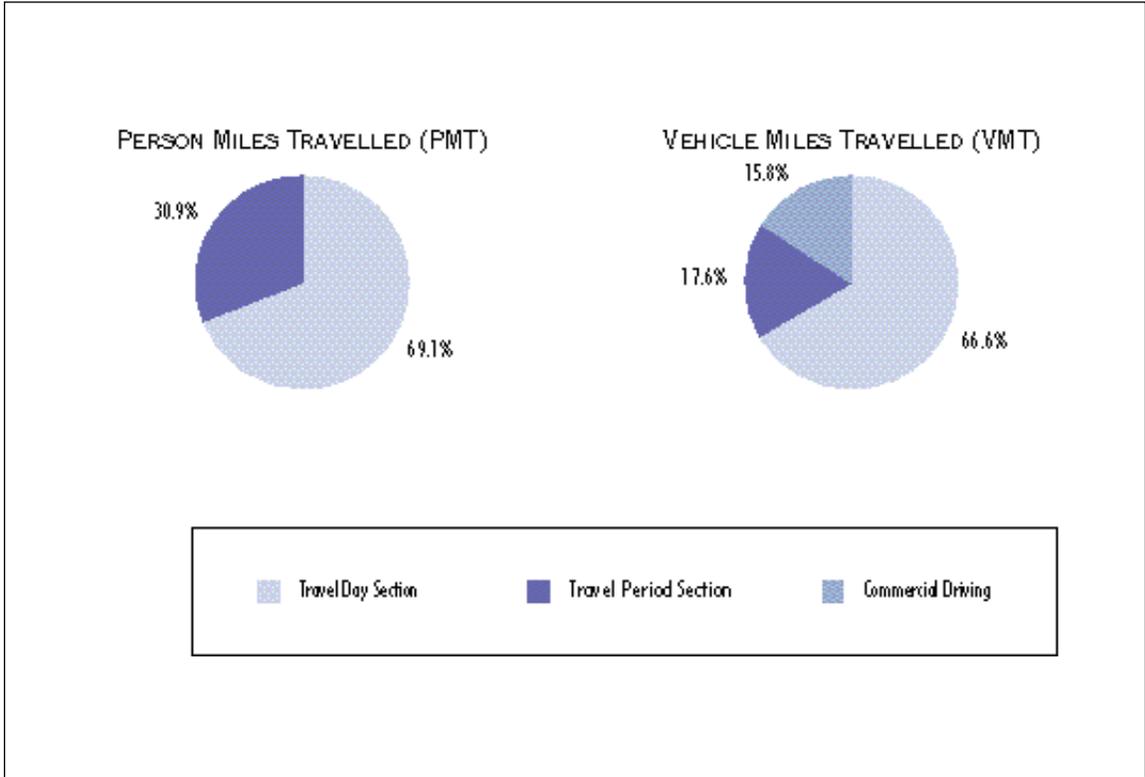
travel period (longer trips) and commercial driving (e.g. truck driver, bus driver, etc.). See Chapter 2 for a more complete discussion of total estimates of travel.

TABLE 8.3

**TRAVEL SUMMARY STATISTICS BY DATA SOURCE¹
1990 NPTS
(MILLIONS)**

	Estimate of Annual Miles Based on Various Data Sources			TOTAL
	Travel Day Section Adjusted ²	Travel Period Section	Commercial Driving Section	
Person Miles Travelled (PMT)	1,982,068 (333,205)	886,235	**	2,868,303
Vehicle Miles Travelled (VMT)	1,275,792 (133,784)	337,332	303,118	1,916,242
¹ Refer to Chapter 2 for more explanations concerning different data sources. ^{**} Indicates no data available.		² The numbers in the parentheses are the travel estimated for overlapping trips. These estimates are excluded from the travel day estimates to avoid double-counting. Travel day estimate without overlapping trips is referred to as the "Travel Day Section Adjusted".		

FIGURE 8.1
DISTRIBUTION OF SUMMARY STATISTICS BY DATA SOURCE
1990 NPTS



Individuals between the ages of 20 and 59 took a proportionally greater number of long-distance trips. This was true for both males and females. Trip rates for long-distance travel declined for individuals 65 or older.

TABLE 8.4

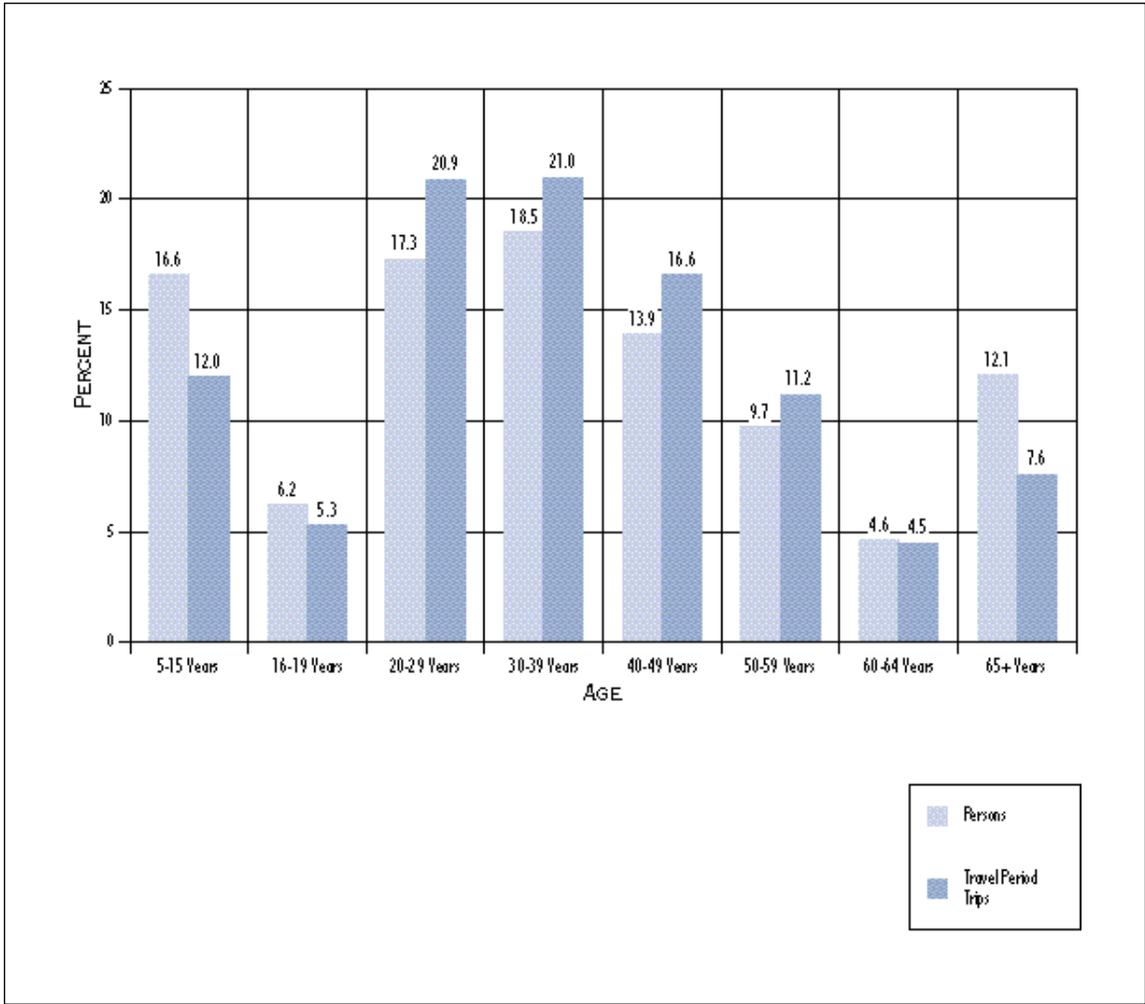
NUMBER OF PERSONS AND TRAVEL PERIOD PERSON TRIPS BY AGE AND SEX
1990 NPTS
(THOUSANDS)

Age	Male		Female		TOTAL	
	Travel Period Trips	Persons	Travel Period Trips	Persons	Travel Period Trips	Persons
5-15	179,012 (11.6%)	18,997 (17.9%)	168,779 (12.4%)	17,973 (15.5%)	347,791 (12.0%)	36,970 (16.6%)
16-19	76,829 (5.0%)	6,727 (6.3%)	77,527 (5.7%)	7,124 (6.1%)	154,357 (5.3%)	13,851 (6.2%)
20-29	329,883 (21.3%)	18,471 (17.4%)	278,673 (20.5%)	19,851 (17.1%)	608,556 (20.9%)	38,322 (17.3%)
30-39	323,775 (20.9%)	19,821 (18.7%)	287,188 (21.1%)	21,337 (18.4%)	610,962 (21.0%)	41,158 (18.5%)
40-49	264,733 (17.1%)	15,035 (14.2%)	218,843 (16.1%)	15,734 (13.6%)	483,576 (16.6%)	30,769 (13.9%)
50-59	171,553 (11.1%)	10,400 (9.8%)	153,298 (11.3%)	11,221 (9.7%)	324,851 (11.2%)	21,621 (9.7%)
60-64	71,319 (4.6%)	4,649 (4.4%)	60,357 (4.4%)	5,479 (4.7%)	131,676 (4.5%)	10,128 (4.6%)
65+	120,390 (7.8%)	11,325 (10.7%)	99,630 (7.3%)	15,615 (13.5%)	220,020 (7.6%)	26,940 (12.1%)
Unreported	10,171 (0.6%)	739 (0.7%)	14,188 (1.0%)	1,515 (1.3%)	25,282 (0.9%)	2,342 ¹ (1.1%)
TOTAL	1,547,665 (100.0%)	106,164 (100.0%)	1,358,483 (100.0%)	115,849 (100.0%)	2,907,071¹ (100.0%)	222,101¹ (100.0%)

¹ Includes persons or trips where sex is unreported.

FIGURE 8.2

**DISTRIBUTION OF PERSONS AND TRAVEL PERIOD PERSON TRIPS BY AGE
1990 NPTS**



Households without children were more likely to select airplanes for their long-distance travel than households with children. Those households used privately owned vehicles

more for their long-distance travel. The cost of airfares for the entire household is one probable reason for the prevalence of POV travel in households with children.

TABLE 8.5

NUMBER OF TRAVEL PERIOD PERSON TRIPS BY HOUSEHOLD COMPOSITION AND MODE OF TRANSPORTATION
1990 NPTS
(THOUSANDS)

	Private Vehicle	Bus	Airplane	Other	TOTAL ¹
Single adult, no children	222,647 (90.3%)	4,957 (2.0%)	15,016 (6.1%)	3,845 (1.6%)	246,464 (100.0%)
Two or more adults, no children	832,629 (92.1%)	10,015 (1.1%)	51,530 (5.7%)	9,156 (1.0%)	903,966 (100.0%)
Single adult, youngest child under 6	29,275 (94.7%)	503 (1.6%)	1,136 (3.7%)	10 (0.0%)	30,924 (100.0%)
Two or more adults, youngest child under 6	507,071 (94.9%)	3,872 (0.7%)	18,088 (3.4%)	4,863 (0.9%)	534,115 (100.0%)
Single adult, youngest child 6-15	65,658 (94.5%)	1,264 (1.8%)	1,028 (1.5%)	1,543 (2.2%)	69,507 (100.0%)
Two or more adults, youngest child 6-15	563,212 (94.1%)	6,952 (1.2%)	19,680 (3.3%)	8,787 (1.5%)	598,631 (100.0%)
Single adult, youngest child 16-21	17,807 (93.6%)	582 (3.1%)	313 (1.6%)	333 (1.7%)	19,034 (100.0%)
Two or more adults, youngest child 16-21	172,979 (94.7%)	1,736 (1.0%)	6,870 (3.8%)	934 (0.5%)	182,617 (100.0%)
Single adult, retired, no children	42,392 (86.5%)	1,937 (4.0%)	3,836 (7.8%)	815 (1.7%)	48,980 (100.0%)
Two or more adults retired, no children	235,191 (92.8%)	2,108 (0.8%)	13,447 (5.3%)	2,318 (0.9%)	253,338 (100.0%)
Unreported	17,231 (88.4%)	** (0.0%)	2,265 (11.6%)	** (0.0%)	19,496 (100.0%)
TOTAL	2,706,091 (93.1%)	33,926 (1.2%)	133,208 (4.6%)	32,603 (1.1%)	2,907,071 (100.0%)

¹ Includes trips where mode of transportation was unreported.

** Indicates no data reported.

The 1990 NPTS estimated that American households took a total of 1.5 billion vehicle trips at least 75 miles long in 1990. These long trips amounted to more than 337 billion

vehicle miles of travel. Travel by households with annual income more than \$40,000 accounted for 36% of the total long-distance driving, both in terms of trips and miles.

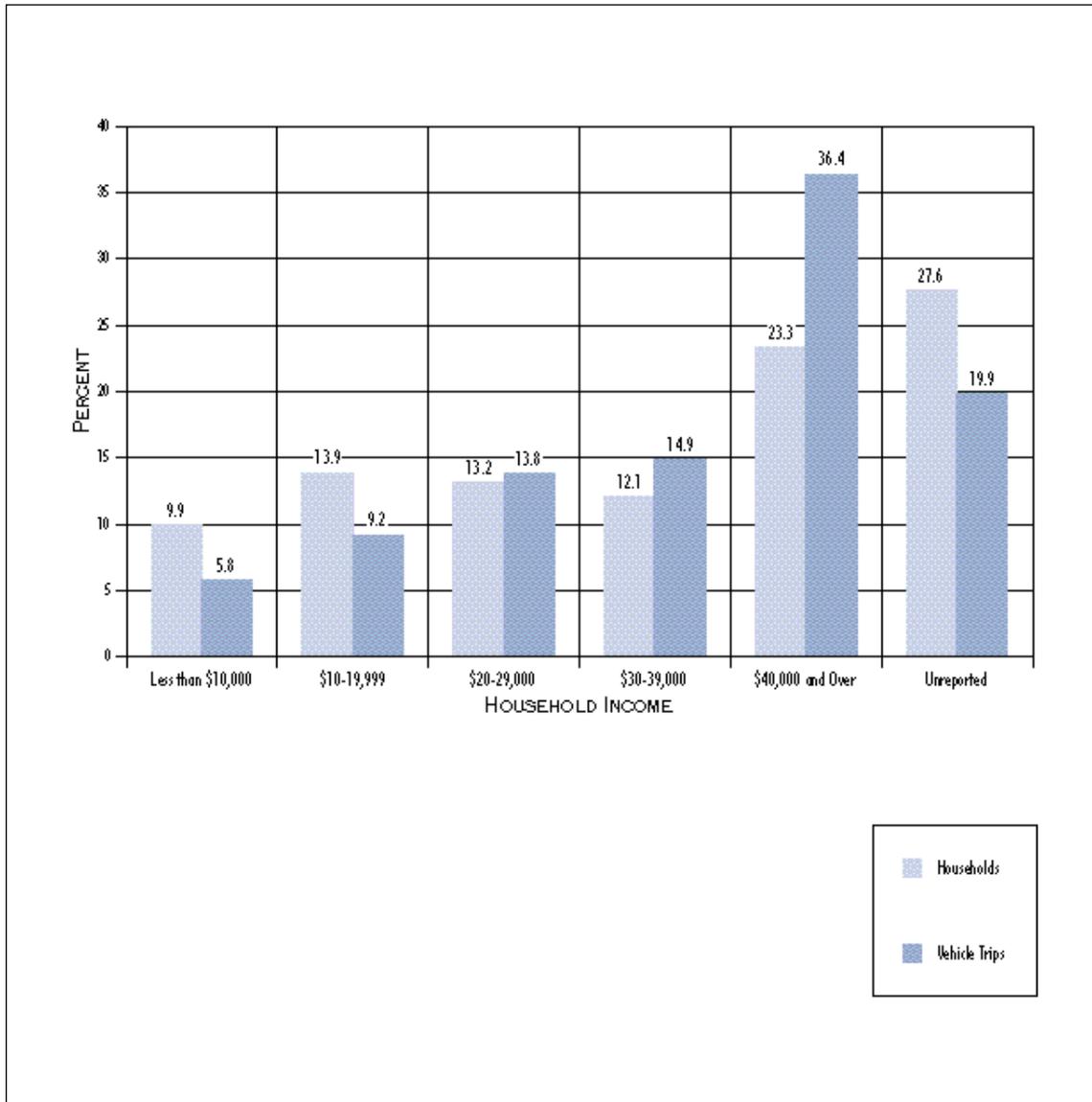
TABLE 8.6

**SUMMARY STATISTICS ON TRAVEL PERIOD VEHICLE TRIPS BY HOUSEHOLD INCOME
1990 NPTS**

Family Income	Number of Households (000)		Travel Period Vehicle Trips (000)		Travel Period Vehicle Miles of Travel (000,000)		Average Travel Period Trip Lengths (miles)
Under \$10,000	9,252	(9.9%)	89,472	(5.8%)	17,734	(5.3%)	198.2
\$10,000-\$19,999	13,011	(13.9%)	141,794	(9.2%)	35,961	(10.7%)	253.6
\$20,000-\$29,999	12,294	(13.2%)	211,489	(13.8%)	39,847	(11.8%)	188.4
\$30,000-\$39,999	11,323	(12.1%)	228,192	(14.9%)	57,149	(16.9%)	250.4
>\$40,000	21,704	(23.3%)	559,525	(36.4%)	123,071	(36.5%)	220.0
Unreported	25,762	(27.6%)	304,794	(19.9%)	63,571	(18.8%)	208.6
TOTAL	93,347	(100.0%)	1,535,265	(100.0%)	337,332	(100.0%)	219.7

FIGURE 8.3

DISTRIBUTION OF HOUSEHOLDS AND TRAVEL PERIOD VEHICLE TRIPS BY HOUSEHOLD INCOME
1990 NPTS



In terms of person trips by all modes, households with annual income greater than \$40,000 took more long-distance person trips by all modes than households in other income groups — 38% of the 2.9 billion long-distance person trips estimated in the 1990

NPTS. Social and recreational activities generated approximately 70% of total travel period person trips. High-income households took more long-distance trips for work-related business and took longer trips than households in other income groups.

TABLE 8.7

NUMBER OF TRAVEL PERIOD PERSON TRIPS BY HOUSEHOLD INCOME AND TRIP PURPOSE
1990 NPTS

	Less than \$10,000	\$10,000- \$19,999	\$20,000- \$29,999	\$30,000- \$39,999	\$40,000 or More	Unreported	TOTAL
Earning a Living	8,121 (4.9%)	10,710 (3.9%)	27,761 (7.3%)	26,292 (6.2%)	100,617 (9.2%)	50,807 (8.9%)	224,308 (7.7%)
Family and Personal Business	26,955 (16.1%)	60,055 (21.7%)	90,796 (24.0%)	67,458 (15.8%)	205,665 (18.9%)	111,799 (19.7%)	562,728 (19.4%)
Civic, Educational, & Religious	4,333 (2.6%)	5,795 (2.1%)	4,565 (1.2%)	7,152 (1.7%)	16,307 (1.5%)	7,282 (1.3%)	45,434 (1.6%)
Social & Recreational	125,466 (75.1%)	196,745 (71.0%)	250,464 (66.2%)	320,620 (75.2%)	756,847 (69.4%)	390,220 (68.7%)	2,040,362 (70.2%)
Other ¹	2,122 (1.3%)	3,780 (1.3%)	4,578 (1.2%)	4,937 (1.1%)	10,785 (1.0%)	8,037 (1.4%)	34,239 (1.1%)
TOTAL	166,997 (100.0%)	277,085 (100.0%)	378,164 (100.0%)	426,459 (100.0%)	1,090,221 (100.0%)	568,145 (100.0%)	2,907,071 (100.0%)
Average Trip Length (Miles)	277	281	263	303	336	294	305

¹ Includes trips where trip purpose was unreported.

TABLE 8.8

**NUMBER OF TRAVEL PERIOD PERSON TRIPS BY HOUSEHOLD INCOME AND MODE OF TRANSPORTATION
1990 NPTS
(THOUSANDS)**

Income	Private Vehicle	Bus	Commuter Train	Amtrak	Airplane	Other	TOTAL ¹
Under \$10,000	150,974	4,583	147	3,226	6,346	1,409	166,997
	(90.4%)	(2.7%)	(0.1%)	(1.9%)	(3.8%)	(0.8%)	(100.0%)
\$10,000 - \$19,999	262,152	5,900	68	478	7,656	831	277,086
	(94.6%)	(2.1%)	(0.0%)	(0.2%)	(2.8%)	(0.3%)	(100.0%)
\$20,000 - \$29,999	360,520	3,623	**	259	12,136	1,614	378,164
	(95.3%)	(1.0%)	(0.0%)	(0.1%)	(3.2%)	(0.4%)	(100.0%)
\$30,000 - \$39,999	404,281	5,849	461	1,992	10,375	3,402	426,459
	(94.8%)	(1.4%)	(0.1%)	(0.5%)	(2.4%)	(0.8%)	(100.0%)
\$40,000 or More	1,004,337	7,399	2,081	5,380	64,533	5,945	1,090,221
	(92.1%)	(0.7%)	(0.2%)	(0.5%)	(5.9%)	(0.5%)	(100.0%)
Unreported	523,827	6,572	486	1,452	32,162	3,373	568,145
	(92.2%)	(1.2%)	(0.1%)	(0.3%)	(5.7%)	(0.6%)	(100.0%)
TOTAL	2,706,091	33,926	3,244	12,786	133,208	16,574	2,907,071
	(93.1%)	(1.2%)	(0.1%)	(0.4%)	(4.6%)	(0.6%)	(100.0%)

¹ Includes trips where mode of transportation was unreported.

** Indicates no data reported.

TABLE 8.9

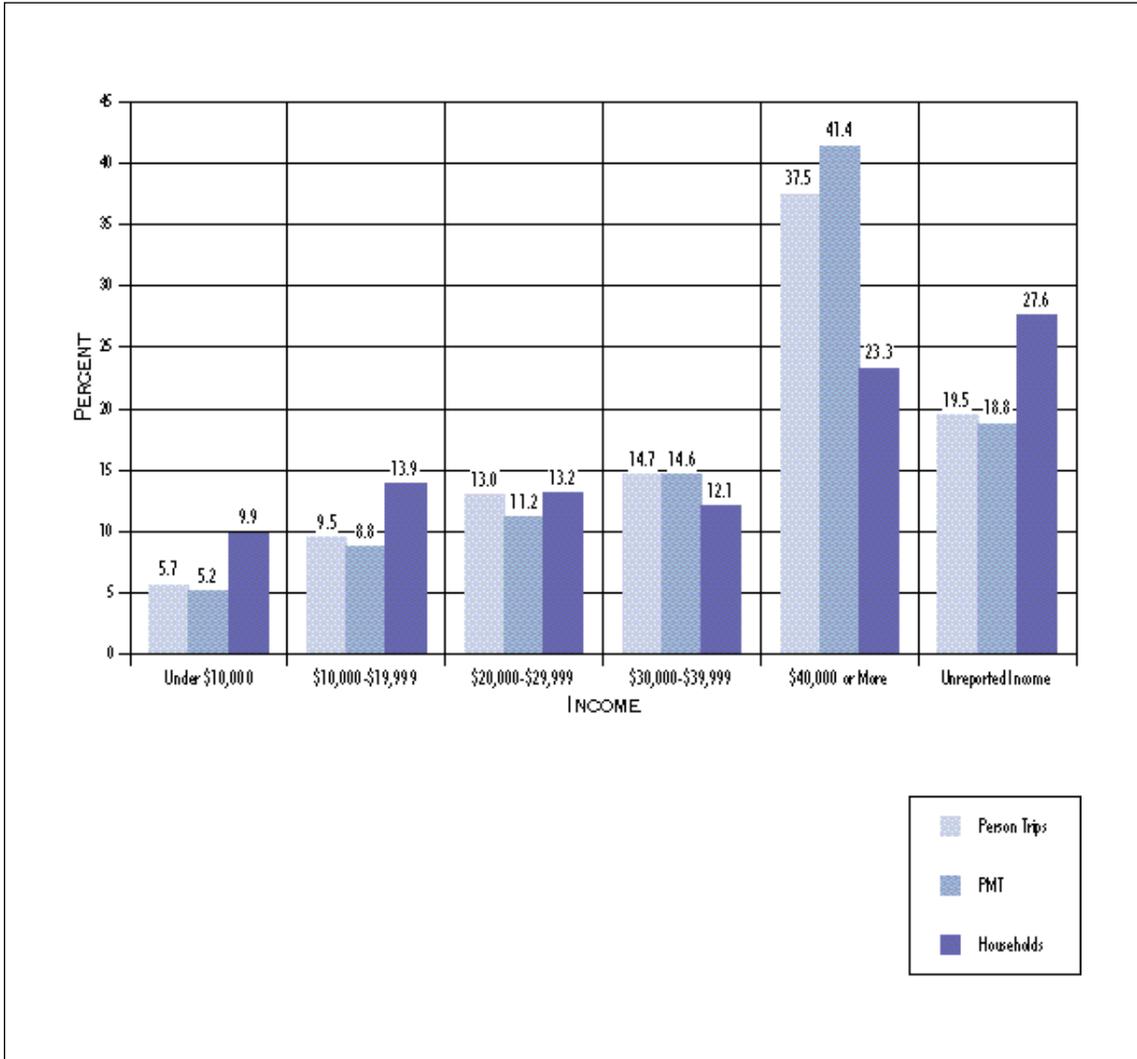
**NUMBER OF TRAVEL PERIOD PERSON MILES OF TRAVEL
BY HOUSEHOLD INCOME AND MODE OF TRANSPORTATION
1990 NPTS
(MILLIONS)**

Income	Private Vehicle	Bus	Commuter Train	Amtrak	Airplane	Other	TOTAL ¹
Under \$10,000	32,024	1,463	14	643	11,875	215	46,258
	(69.2%)	(3.2%)	(0.0%)	(1.4%)	(25.7%)	(0.5%)	(100.0%)
\$10,000 - \$19,999	61,300	1,309	7	77	15,141	120	77,953
	(78.6%)	(1.7%)	(0.0%)	(0.1%)	(19.4%)	(0.2%)	(100.0%)
\$20,000 - \$29,999	73,061	896	**	78	24,992	431	99,459
	(73.5%)	(0.9%)	(0.0%)	(0.1%)	(25.1%)	(0.4%)	(100.0%)
\$30,000 - \$39,999	108,229	1,194	133	373	18,132	952	129,042
	(83.9%)	(0.9%)	(0.1%)	(0.3%)	(14.1%)	(0.7%)	(100.0%)
\$40,000 or More	234,046	1,594	223	4,065	124,452	2,167	366,659
	(63.8%)	(0.4%)	(0.1%)	(1.1%)	(33.9%)	(0.6%)	(100.0%)
Unreported	115,740	1,481	40	316	47,607	1,215	166,865
	(69.4%)	(0.9%)	(0.0%)	(0.2%)	(28.5%)	(0.7%)	(100.0%)
TOTAL	624,400	7,937	416	5,552	242,198	5,100	886,235
	(70.5%)	(0.9%)	(0.0%)	(0.6%)	(27.3%)	(0.6%)	(100.0%)

¹ Includes miles of travel where mode of transportation was unreported. ** Indicates no data reported.

FIGURE 8.4

DISTRIBUTION OF TRAVEL PERIOD PERSON TRAVEL AND HOUSEHOLDS BY HOUSEHOLD INCOME
1990 NPTS



HOUSEHOLD CHARACTERISTICS CHARACTERISTICS OF LONGER TRIPS

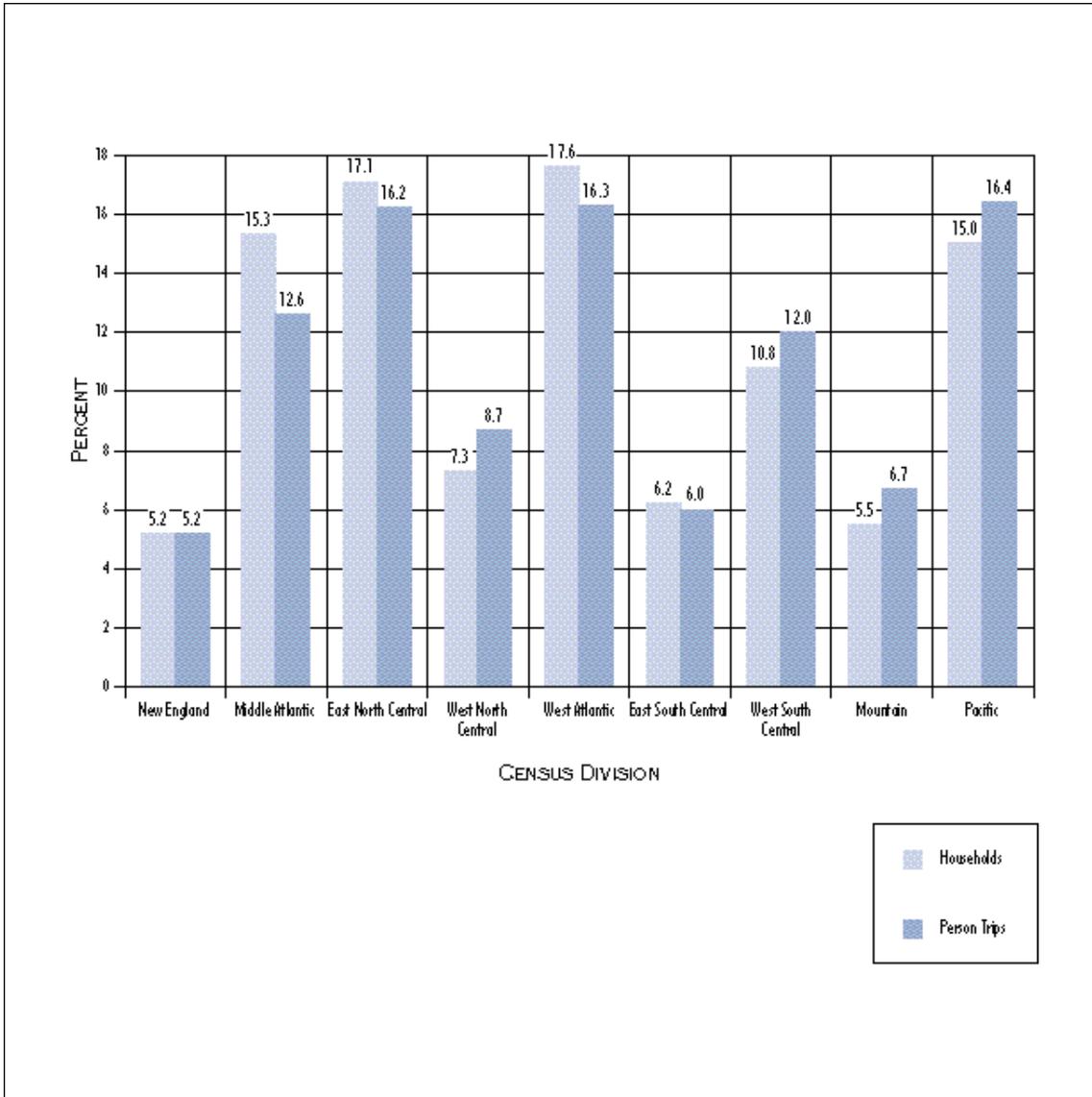
TABLE 8.10

SUMMARY STATISTICS ON TRAVEL PERIOD TRIPS BY CENSUS DIVISION¹
1990 NPTS

New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	TOTAL
Number of Households (000)									
4,826 (5.2%)	14,301 (15.3%)	15,961 (17.1%)	6,799 (7.3%)	16,428 (17.6%)	5,777 (6.2%)	10,057 (10.8%)	5,160 (5.5%)	14,038 (15.0%)	93,347 (100.0%)
Number of Person Trips (000)									
152,362 (5.2%)	366,530 (12.6%)	469,919 (16.2%)	251,359 (8.7%)	472,526 (16.3%)	174,454 (6.0%)	349,895 (12.0%)	193,558 (6.7%)	476,468 (16.4%)	2,907,071 (100.0%)
Person Miles of Travel (000,000)									
36,009 (4.1%)	108,722 (12.3%)	142,382 (16.1%)	59,436 (6.7%)	152,969 (17.3%)	39,160 (4.4%)	99,354 (11.2%)	61,415 (6.9%)	186,788 (21.1%)	886,235 (100.0%)
Number of Vehicle Trips (000)									
83,313 (5.4%)	185,811 (12.1%)	249,379 (16.2%)	129,429 (8.4%)	252,637 (16.5%)	101,635 (6.6%)	191,944 (12.5%)	99,189 (6.5%)	241,927 (15.8%)	1,535,265 (100.0%)
Vehicle Miles of Travel (000,000)									
14,624 (4.3%)	37,772 (11.2%)	57,810 (17.1%)	26,511 (7.9%)	62,957 (18.7%)	19,412 (5.8%)	42,861 (12.7%)	22,944 (6.8%)	52,441 (15.5%)	337,332 (100.0%)
¹ See Glossary for a listing of states in each Census Division.									

FIGURE 8.5

DISTRIBUTION OF HOUSEHOLDS AND TRAVEL PERIOD PERSON TRIPS BY CENSUS DIVISION
1990 NPTS



TRIP CHARACTERISTICS CHARACTERISTICS OF LONGER TRIPS

Most travel period trips were taken by private vehicles. Considering only person trips taken by private vehicle, 56.7% were taken as the drivers of these trips; and the remaining 43.3% were taken as passengers. Although the trips taken by private vehicles amounted

to 93% of the total travel period person trips, they only accounted for 70% of the total miles of travel. This difference was accounted for by trips taken by airplane, which comprised 4.6% of the total number of trips and yet 27.3% of the total mileage.

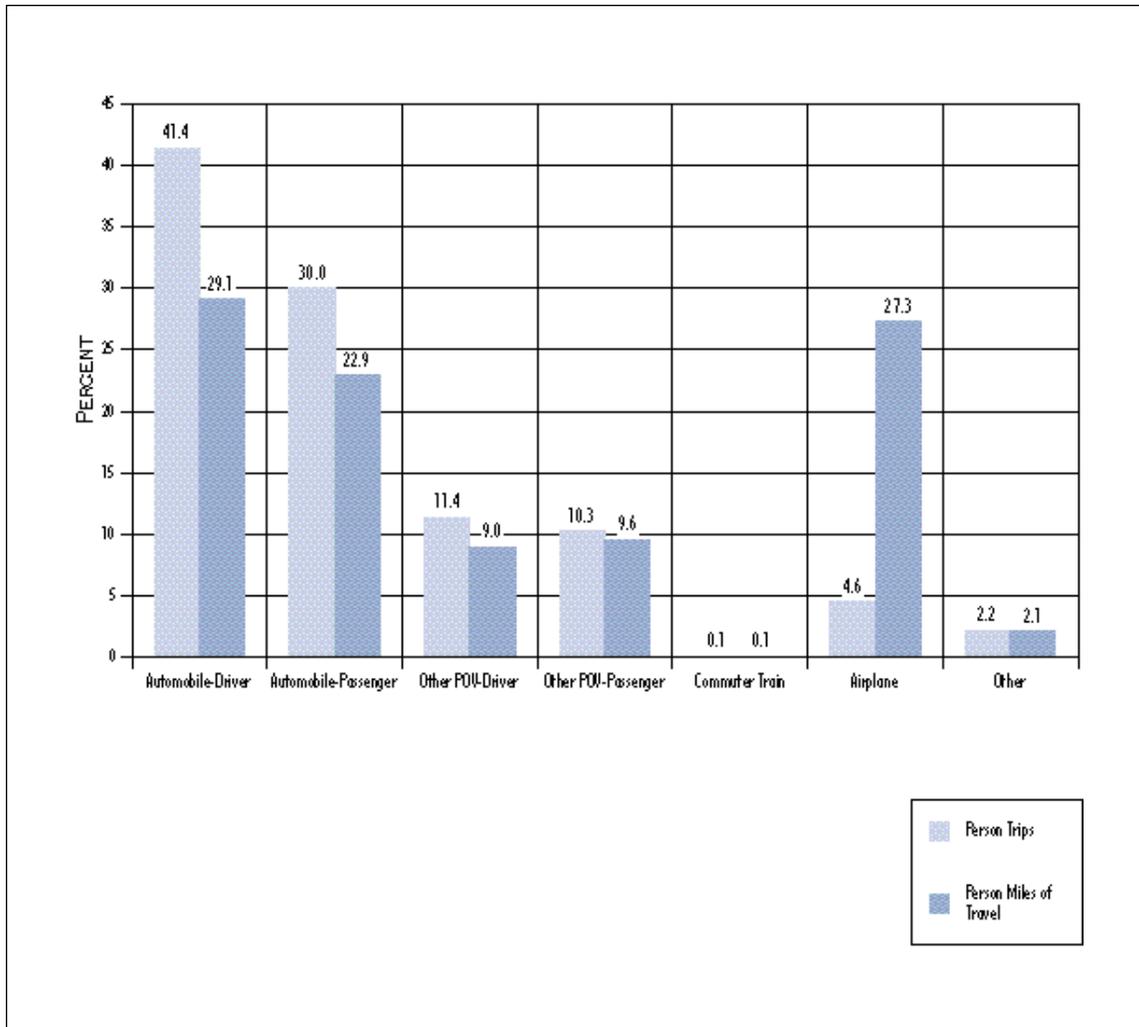
TABLE 8.11

NUMBER OF TRAVEL PERIOD PERSON TRIPS AND TRAVEL PERIOD PERSON MILES OF TRAVEL
BY MODE OF TRANSPORTATION
1990 NPTS

Mode	Person Trip (000)		Person Miles of Travel (000,000)	
Private Vehicle				
Automobile-Driver	1,204,043	(41.4%)	257,834	(29.1%)
Automobile-Passenger	872,137	(30.0%)	202,637	(22.9%)
Passenger Van-Driver	101,323	(3.5%)	29,712	(3.4%)
Passenger Van-Passenger	156,604	(5.4%)	45,740	(5.2%)
Pickup Truck-Driver	191,352	(6.6%)	36,110	(4.1%)
Pickup Truck-Passenger	104,222	(3.6%)	20,842	(2.4%)
Other POV-Driver	38,548	(1.3%)	13,676	(1.5%)
Other POV-Passenger	37,863	(1.3%)	17,848	(2.0%)
Subtotal	2,706,092	(93.1%)	624,399	(70.5%)
Other Means				
Bus	33,926	(1.2%)	7,937	(0.9%)
Commuter Train	3,244	(0.1%)	416	(0.05%)
Amtrak	12,786	(0.4%)	5,552	(0.6%)
Airplane	133,208	(4.6%)	242,198	(27.3%)
School Bus	7,817	(0.3%)	877	(0.1%)
Taxi	148	(0.01%)	44	(0.01%)
Bicycle	51	(0.00%)	4	(0.00%)
Other	8,557	(0.3%)	4,174	(0.5%)
Subtotal	199,737	(6.9%)	261,202	(29.5%)
Unreported Mode				
Subtotal	1,243	(0.04%)	633	(0.07%)
TOTAL	2,907,071	(100.0%)	886,235	(100.0%)

FIGURE 8.6

DISTRIBUTION OF TRAVEL PERIOD PERSON TRAVEL BY MODE OF TRANSPORTATION
1990 NPTS



Unlike daily travel which was usually for work- or family and personal-related business, the great majority of long-distance trips, 70.2%, were for social and recreational

purposes. Visiting friends and relatives was the most common purpose of social and recreational trips.

TABLE 8.12

NUMBER OF TRAVEL PERIOD PERSON TRIPS AND TRAVEL PERIOD PERSON MILES OF TRAVEL
BY TRIP PURPOSE
1990 NPTS

	Person Trips (000)		Person Miles of Travel (000,000)	
EARNING A LIVING				
To or from Work	50,855	(1.7%)	6,124	(0.7%)
Work-Related Business	173,453	(6.0%)	74,628	(8.4%)
Subtotal	224,308	(7.7%)	80,752	(9.1%)
FAMILY & PERSONAL BUSINESS				
Family/Personal Related	423,446	(14.6%)	112,287	(12.7%)
Shopping	93,957	(3.2%)	11,342	(1.3%)
Doctor/Dentist	45,325	(1.6%)	5,424	(0.6%)
Subtotal	562,728	(19.4%)	129,053	(14.6%)
CIVIC, EDUCATIONAL, & RELIGIOUS				
Subtotal	45,434	(1.6%)	7,227	(0.8%)
SOCIAL & RECREATIONAL				
Vacation	370,948	(12.8%)	218,567	(24.7%)
Visiting Friends/Relatives	934,704	(32.2%)	267,865	(30.2%)
Pleasure Driving	71,931	(2.5%)	12,105	(1.3%)
Other Social/Recreational	662,779	(22.8%)	161,894	(18.3%)
Subtotal	2,040,362	(70.2%)	660,431	(74.5%)
OTHER¹				
Subtotal	34,239	(1.2%)	8,772	(1.0%)
TOTAL	2,907,071	(100.0%)	886,235	(100.0%)
¹ Includes trips and miles of travel where trip purpose was unreported.				

FIGURE 8.7

DISTRIBUTION OF TRAVEL PERIOD PERSON TRAVEL BY TRIP PURPOSE
1990 NPTS

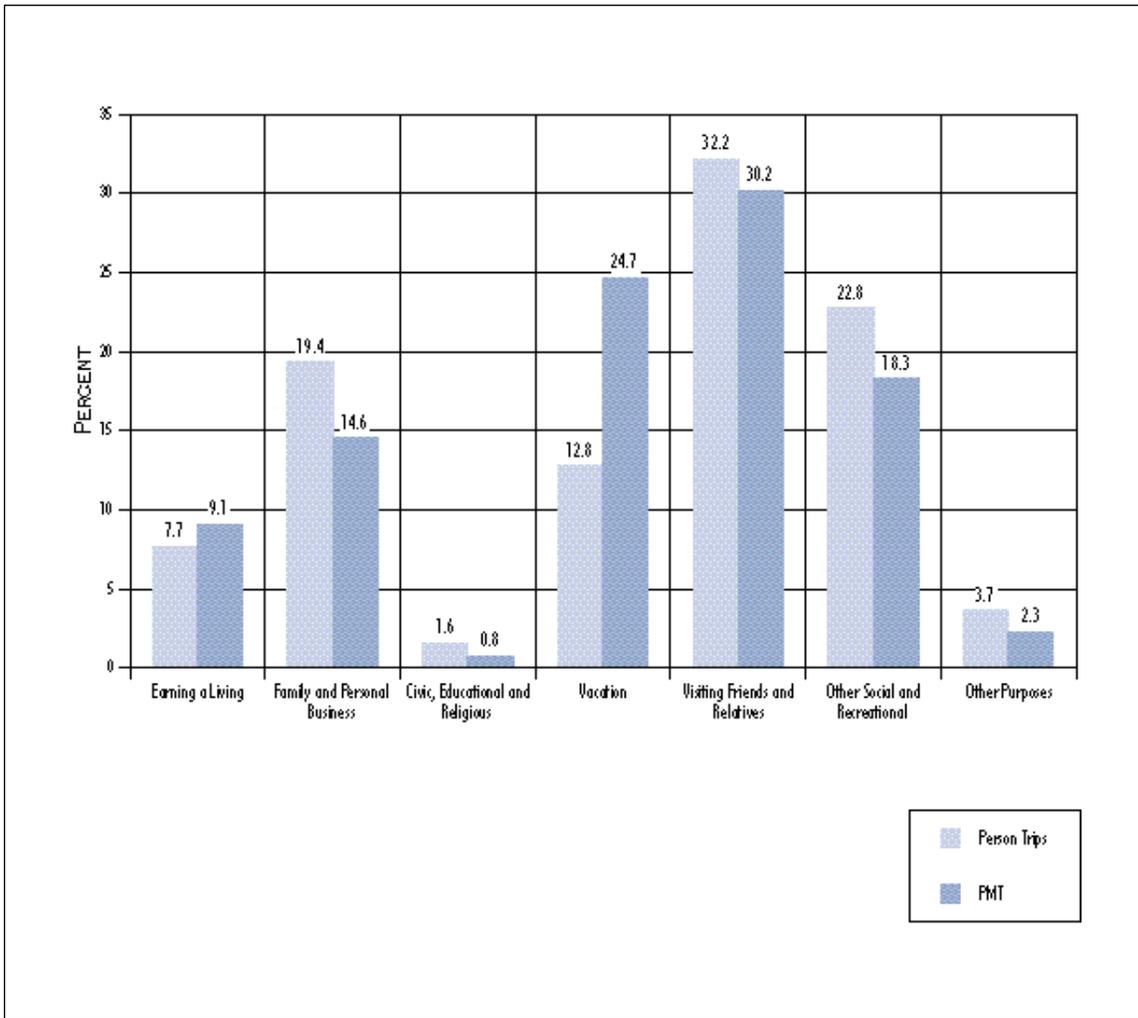


TABLE 8.13

**NUMBER OF TRAVEL PERIOD PERSON TRIPS BY TRIP PURPOSE AND MODE OF TRANSPORTATION
1990 NPTS
(THOUSANDS)**

	Private Vehicle	Bus	Commuter Train	Amtrak	Airplane	Other	TOTAL ¹
EARNING A LIVING							
To or From Work	48,101 (1.8%)	** (0.0%)	1,302 (40.1%)	1,453 (11.4%)	** (0.0%)	** (0.0%)	50,855 (1.7%)
Work-Related Business	134,788 (5.0%)	892 (2.6%)	67 (2.1%)	1,494 (11.7%)	34,495 (25.9%)	1,561 (9.4%)	173,453 (6.0%)
Subtotal	182,889 (6.8%)	892 (2.6%)	1,369 (42.2%)	2,947 (23.1%)	34,495 (25.9%)	1,561 (9.4%)	224,308 (7.7%)
FAMILY AND PERSONAL BUSINESS							
Shopping	93,800 (3.5%)	16 (0.0%)	8 (0.2%)	** (0.0%)	132 (0.1%)	** (0.0%)	93,957 (3.2%)
Doctor/Dentist	44,512 (1.6%)	805 (2.4%)	8 (0.2%)	** (0.0%)	** (0.0%)	** (0.0%)	45,325 (1.6%)
Other Family or Personal Business	405,189 (15.0%)	3,340 (9.8%)	27 (0.8%)	1,217 (9.5%)	12,872 (9.7%)	802 (4.8%)	423,446 (14.6%)
Subtotal	543,501 (20.1%)	4,161 (12.2%)	43 (1.3%)	1,217 (9.5%)	13,004 (9.8%)	802 (4.8%)	562,728 (19.4%)
CIVIC, EDUCATIONAL AND RELIGIOUS							
Subtotal	39,215 (1.4%)	4,465 (13.2%)	41 (1.3%)	** (0.0%)	15 (0.0%)	1,698 (10.2%)	45,434 (1.6%)
SOCIAL AND RECREATIONAL							
Vacation	322,336 (11.9%)	3,887 (11.5%)	69 (2.1%)	2,106 (16.5%)	40,048 (30.1%)	2,047 (12.4%)	370,948 (12.8%)
Visiting Friends/Relatives	893,207 (33.0%)	5,948 (17.5%)	1,267 (39.1%)	4,780 (37.4%)	28,739 (21.6%)	230 (1.4%)	934,704 (32.2%)
Pleasure Driving	71,931 (2.7%)	** (0.0%)	** (0.0%)	** (0.0%)	** (0.0%)	** (0.0%)	71,931 (2.5%)
Other Social/Recreational	622,458 (23.0%)	14,077 (41.5%)	455 (14.0%)	1,736 (13.6%)	15,425 (11.6%)	8,530 (51.5%)	662,779 (22.8%)
Subtotal	1,909,932 (70.6%)	23,912 (70.5%)	1,791 (55.2%)	8,622 (67.4%)	84,212 (63.3%)	10,807 (65.3%)	2,040,362 (70.3%)
OTHER							
Subtotal	28,430 (1.1%)	496 (1.5%)	** (0.0%)	** (0.0%)	1,482 (1.1%)	1,706 (10.3%)	32,115 (1.1%)
TOTAL¹	2,706,091 (100.0%)	33,926 (100.0%)	3,244 (100.0%)	12,786 (100.0%)	133,208 (100.0%)	16,574 (100.0%)	2,907,071 (100.0%)

¹ Includes trips where trip purpose, mode of transportation, or both were unreported.

** Indicates no data available.

TABLE 8.14

**NUMBER OF TRAVEL PERIOD PERSON MILES OF TRAVEL BY TRIP PURPOSE AND MODE OF TRANSPORTATION
1990 NPTS
(MILLIONS)**

	Private Vehicle	Bus	Commuter Train	Amtrak	Airplane	Other	TOTAL ¹
EARNING A LIVING							
To or From Work	5,875 (0.9%)	** (0.0%)	104 (24.9%)	145 (2.6%)	** (0.0%)	** (0.0%)	6,124 (0.7%)
Work-Related Business	23,777 (3.8%)	281 (3.5%)	5 (1.3%)	540 (9.7%)	49,655 (20.5%)	355 (7.0%)	74,628 (8.4%)
Subtotal	29,652 (4.7%)	281 (3.5%)	109 (26.2%)	686 (12.3%)	49,655 (20.5%)	355 (7.0%)	80,752 (9.1%)
FAMILY AND PERSONAL BUSINESS							
Shopping	10,943 (1.8%)	2 (0.0%)	1 (0.1%)	** (0.0%)	397 (0.2%)	** (0.0%)	11,342 (1.3%)
Doctor/Dentist	5,359 (0.9%)	64 (0.8%)	1 (0.1%)	** (0.0%)	** (0.0%)	** (0.0%)	5,424 (0.6%)
Other Family or Personal Business	85,018 (13.6%)	444 (5.6%)	3 (0.7%)	247 (4.4%)	26,454 (10.9%)	122 (2.4%)	112,287 (12.7%)
Subtotal	101,320 (16.3%)	510 (6.4%)	4 (0.9%)	247 (4.4%)	26,851 (11.1%)	122 (2.4%)	129,053 (14.6%)
CIVIC, EDUCATIONAL AND RELIGIOUS							
Subtotal	6,265 (1.0%)	722 (9.1%)	3 (0.7%)	** (0.0%)	59 (0.0%)	178 (3.5%)	7,227 (0.8%)
SOCIAL AND RECREATIONAL							
Vacation	130,984 (21.0%)	975 (12.3%)	14 (3.3%)	2,325 (41.9%)	82,002 (33.9%)	1,758 (34.5%)	218,567 (24.7%)
Visiting Friends/Relatives	216,323 (34.6%)	1,996 (25.1%)	201 (48.3%)	1,774 (31.9%)	47,230 (19.5%)	263 (5.2%)	267,865 (30.2%)
Pleasure Driving	12,105 (1.9%)	** (0.0%)	** (0.0%)	** (0.0%)	** (0.0%)	** (0.0%)	12,105 (1.4%)
Other Social/Recreational	121,238 (19.4%)	3,377 (42.5%)	86 (20.5%)	521 (9.4%)	34,480 (14.2%)	2,162 (42.4%)	161,894 (18.3%)
Subtotal	480,650 (76.9%)	6,348 (79.9%)	300 (72.1%)	4,620 (83.2%)	163,712 (67.6%)	4,183 (82.1%)	660,431 (74.6%)
OTHER							
Subtotal	6,124 (1.0%)	75 (0.9%)	** (0.0%)	** (0.0%)	1,922 (0.8%)	261 (5.1%)	8,382 (0.9%)
TOTAL¹	624,400 (100.0%)	7,937 (100.0%)	416 (100.0%)	5,552 (100.0%)	242,198 (100.0%)	5,100 (100.0%)	886,235 (100.0%)

¹ Includes miles of travel where trip purpose, mode of transportation, or both were unreported.

** Indicates no data available.

Regardless of vehicle type or trip purpose, vehicle occupancy rate was significantly higher for longer trips compared to typical daily trips.

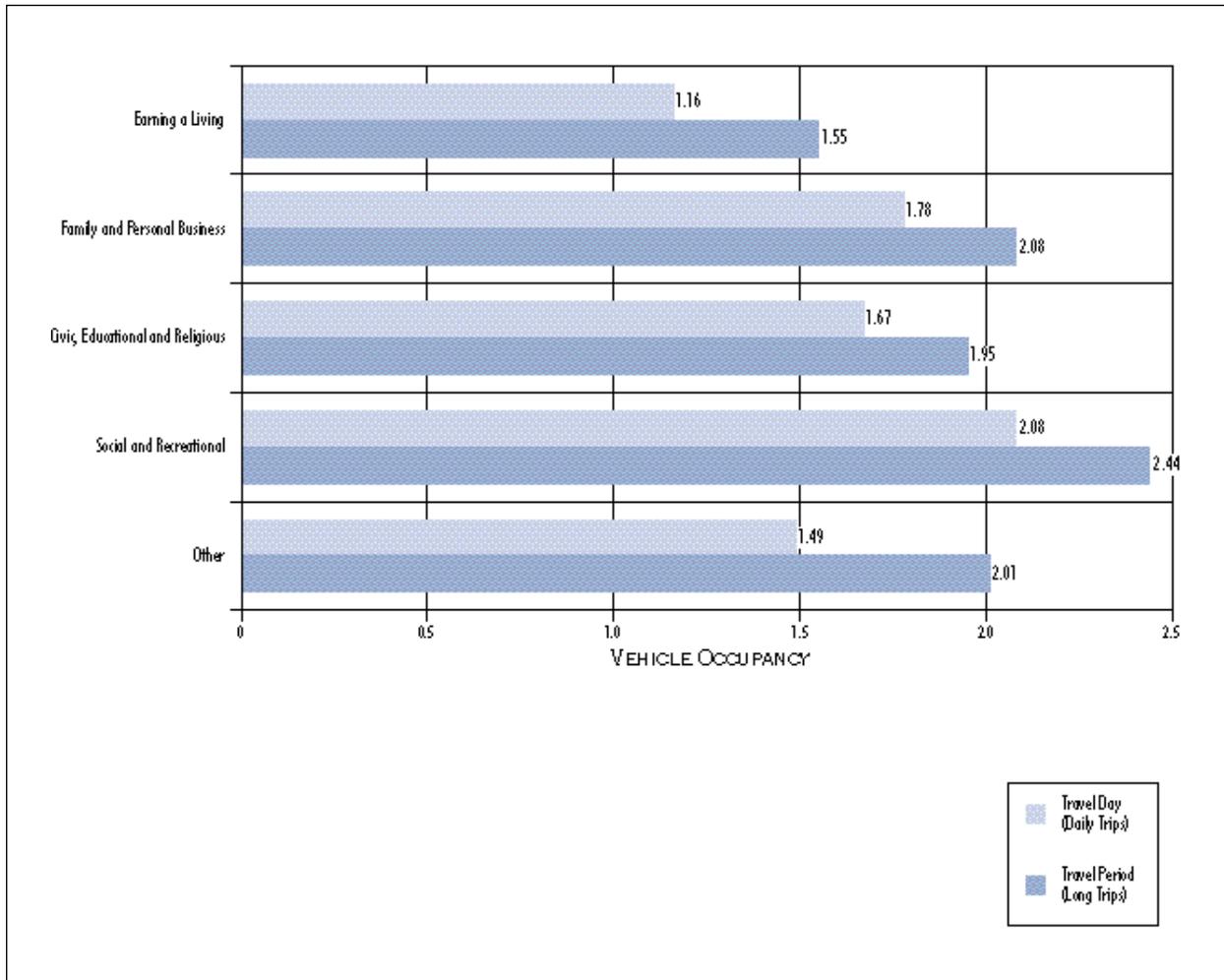
TABLE 8.15

VEHICLE OCCUPANCY OF AN AVERAGE LONG TRIP BY TRIP PURPOSE AND VEHICLE TYPE
(PERSON MILES PER VEHICLE MILE)
1990 NPTS

Mode	Earning a Living	Family & Personal Business	Civic, Educational & Religious	Social & Recreational	Other	ALL PURPOSES	
						Longer Trips (Travel Period)	Daily Trips (Travel Day)
Auto	1.47	2.08	1.94	2.29	1.86	2.19	1.62
Passenger Van	2.89	2.44	3.19	3.12	3.60	3.02	2.55
Cargo Van	*	*	**	*	*	*	1.24
Pickup Truck	1.40	1.92	1.08	2.30	1.70	2.09	1.47
Other Truck	1.73	1.53	*	2.76	**	1.93	1.41
RV/Motor Home	**	*	**	2.76	**	2.76	2.55
Motorcycle	**	1.58	**	1.64	*	1.63	1.37
ALL	1.55	2.08	1.95	2.44	2.01	2.30	1.64
* Indicates insufficient data available.			** Indicates no data available.				

FIGURE 8.8

COMPARISON OF AVERAGE VEHICLE OCCUPANCY BETWEEN TRAVEL DAY
AND TRAVEL PERIOD TRIPS BY TRIP PURPOSE
1990 NPTS



Thirty-four percent of the long-distance trips were to destinations less than 100 miles away from home, and almost an equal number of trips were to places between 100 and 200 miles from home. As expected, the num-

ber of trips declined when the distance away from home increased. In 1990, 4.5% of the estimated long trips were to places 1,000 miles away from home, but these trips accounted for 36% of person miles of travel.

TABLE 8.16

NUMBER OF TRAVEL PERIOD PERSON TRIPS AND TRAVEL PERIOD PERSON MILES OF TRAVEL
BY TRIP DISTANCE
1990 NPTS

Trip Distance	No. of Person Trips (000)		No. of Person Miles of Travel (000,000)	
75-100 miles	1,001,131	(34.4%)	86,549	(9.8%)
101-200 miles	981,945	(33.8%)	146,230	(16.5%)
201-400 miles	514,297	(17.7%)	150,524	(17.0%)
401-600 miles	148,409	(5.1%)	75,750	(8.5%)
601-800 miles	78,713	(2.7%)	56,645	(6.4%)
801-1,000 miles	50,729	(1.7%)	47,955	(5.4%)
1,001-2,500 miles	100,291	(3.4%)	160,493	(18.1%)
> 2,500 miles	31,556	(1.1%)	162,090	(18.3%)
TOTAL	2,907,071	(100.0%)	886,235	(100.0%)

TABLE 8.17

**NUMBER OF TRAVEL PERIOD PERSON TRIPS BY TRIP DISTANCE AND MODE OF TRANSPORTATION
1990 NPTS
(THOUSANDS)**

Trip Distance	Private Vehicle	Bus	Commuter Train	Amtrak	Airplane	Other	TOTAL ¹
75-100 miles	975,408 (36.0%)	10,158 (29.9%)	2,325 (71.7%)	5,276 (41.3%)	1,307 (1.0%)	6,190 (37.3%)	1,001,131 (34.4%)
101-200 miles	959,564 (35.5%)	11,666 (34.4%)	341 (10.5%)	2,431 (19.0%)	3,111 (2.3%)	4,819 (29.1%)	981,945 (33.8%)
201-400 miles	485,995 (18.0%)	9,673 (28.5%)	578 (17.8%)	1,960 (15.3%)	13,230 (9.9%)	2,372 (14.3%)	514,297 (17.7%)
401-600 miles	134,813 (5.0%)	1,094 (3.2%)	** (0.0%)	512 (4.0%)	11,502 (8.6%)	487 (2.9%)	148,409 (5.1%)
601-800 miles	65,677 (2.4%)	690 (2.0%)	** (0.0%)	837 (6.5%)	10,693 (8.0%)	817 (4.9%)	78,713 (2.7%)
801-1,000 miles	34,131 (1.3%)	160 (0.5%)	** (0.0%)	240 (1.9%)	14,870 (11.2%)	1,328 (8.0%)	50,729 (1.7%)
1,000-2,500 miles	42,919 (1.6%)	466 (1.4%)	** (0.0%)	1,269 (9.9%)	54,887 (41.2%)	477 (2.9%)	100,291 (3.4%)
>2,500 miles	7,584 (0.3%)	18 (0.1%)	** (0.0%)	262 (2.1%)	23,607 (17.7%)	84 (0.5%)	31,556 (1.1%)
TOTAL	2,706,091 (100.0%)	33,926 (100.0%)	3,244 (100.0%)	12,786 (100.0%)	133,208 (100.0%)	16,574 (100.0%)	2,907,071 (100.0%)

¹ Includes trips where mode of transportation was unreported. ** Indicates no data reported.

TABLE 8.18
DISTRIBUTION OF TRAVEL PERIOD PERSON TRIPS BY TRIP DISTANCE AND MODE OF TRANSPORTATION
1990 NPTS
(PERCENT)

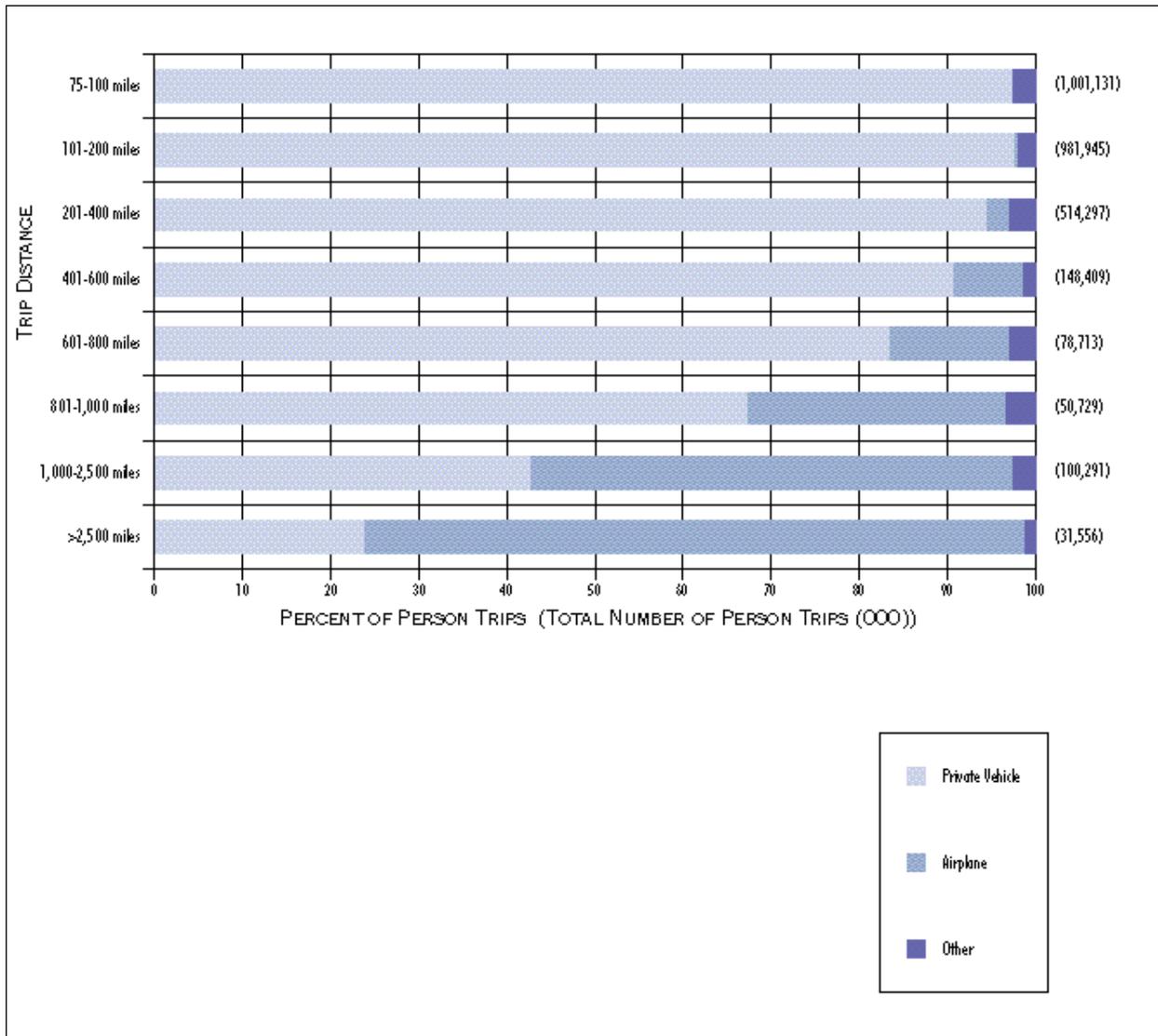
Trip Distance	Private Vehicle	Bus	Commuter Train	Amtrak	Airplane	Other	TOTAL ¹
75-100 miles	97.4%	1.0%	0.2%	0.5%	0.1%	0.6%	100.0%
101-200 miles	97.7%	1.2%	0.0%	0.2%	0.3%	0.5%	100.0%
201-400 miles	94.5%	1.9%	0.1%	0.4%	2.6%	0.5%	100.0%
401-600 miles	90.8%	0.7%	**	0.3%	7.8%	0.3%	100.0%
601-800 miles	83.4%	0.9%	**	1.1%	13.6%	1.0%	100.0%
801-1,000 miles	67.3%	0.3%	**	0.5%	29.3%	2.6%	100.0%
1,000-2,500 miles	42.8%	0.5%	**	1.3%	54.7%	0.5%	100.0%
>2,500 miles	24.0%	0.1%	**	0.8%	74.8%	0.3%	100.0%
TOTAL	93.1%	1.2%	0.1%	0.4%	4.6%	0.6%	100.0%

¹ Includes trips where mode of transportation was unreported.

** Indicates no data reported.

FIGURE 8.9

DISTRIBUTION OF TRAVEL PERIOD PERSON TRIPS BY TRIP DISTANCE
AND MODE OF TRANSPORTATION
1990 NPTS
(WITHIN TRIP DISTANCE)



TRIP CHARACTERISTICS CHARACTERISTICS OF LONGER TRIPS

TABLE 8.19

**NUMBER OF TRAVEL PERIOD PERSON MILES OF TRAVEL BY TRIP DISTANCE AND MODE OF TRANSPORTATION
1990 NPTS
(MILLIONS)**

Trip Distance	Private Vehicle	Bus	Commuter Train	Amtrak	Airplane	Other	TOTAL ¹
75-100 miles	84,299 (13.5%)	873 (11.0%)	189 (45.4%)	507 (9.1%)	113 (0.0%)	528 (10.4%)	86,549 (9.8%)
101-200 miles	142,597 (22.8%)	1,898 (23.9%)	48 (11.5%)	412 (7.4%)	525 (0.2%)	749 (14.7%)	146,230 (16.5%)
201-400 miles	141,692 (22.7%)	2,945 (37.1%)	179 (43.1%)	544 (9.8%)	4,324 (1.8%)	712 (14.0%)	150,524 (17.0%)
401-600 miles	68,522 (11.0%)	541 (6.8%)	** (0.0%)	262 (4.7%)	6,181 (2.6%)	244 (4.8%)	75,750 (8.5%)
601-800 miles	46,956 (7.5%)	528 (6.7%)	** (0.0%)	643 (11.6%)	7,865 (3.2%)	654 (12.8%)	56,645 (6.4%)
801-1,000 miles	31,822 (5.1%)	158 (2.0%)	** (0.0%)	240 (4.3%)	14,489 (6.0%)	1,246 (24.4%)	47,955 (5.4%)
1,000-2,500 miles	61,384 (9.8%)	940 (11.8%)	** (0.0%)	2,156 (38.8%)	94,815 (39.1%)	732 (14.4%)	160,493 (18.1%)
>2,500 miles	47,129 (7.5%)	55 (0.7%)	** (0.0%)	787 (14.2%)	113,885 (47.0%)	235 (4.6%)	162,090 (18.3%)
TOTAL	624,400 (100.0%)	7,937 (100.0%)	416 (100.0%)	5,552 (100.0%)	242,198 (100.0%)	5,100 (100.0%)	886,235 (100.0%)

¹ Includes miles of travel where mode of transportation was unreported.

** Indicates no data reported.

TABLE 8.20

DISTRIBUTION OF TRAVEL PERIOD PERSON MILES OF TRAVEL BY TRIP DISTANCE
AND MODE OF TRANSPORTATION
1990 NPTS
(PERCENT)

Trip Distance	Private Vehicle	Bus	Commuter Train	Amtrak	Airplane	Other	TOTAL ¹
75-100 miles	97.4%	1.0%	0.2%	0.6%	0.1%	0.6%	100.0%
101-200 miles	97.5%	1.3%	0.0%	0.3%	0.4%	0.5%	100.0%
201-400 miles	94.1%	2.0%	0.1%	0.4%	2.9%	0.5%	100.0%
401-600 miles	90.5%	0.7%	**	0.3%	8.2%	0.3%	100.0%
601-800 miles	82.9%	0.9%	**	1.1%	13.9%	1.2%	100.0%
801-1,000 miles	66.4%	0.3%	**	0.5%	30.2%	2.6%	100.0%
1,000-2,500 miles	38.2%	0.6%	**	1.3%	59.1%	0.5%	100.0%
>2,500 miles	29.1%	0.0%	**	0.5%	70.3%	0.1%	100.0%
TOTAL	70.5%	0.9%	0.0%	0.6%	27.3%	0.6%	100.0%

¹ Includes miles of travel where mode of transportation was unreported. ** Indicates no data reported.

FIGURE 8.10

DISTRIBUTION OF TRAVEL PERIOD PERSON TRAVEL BY TRIP DISTANCE
1990 NPTS

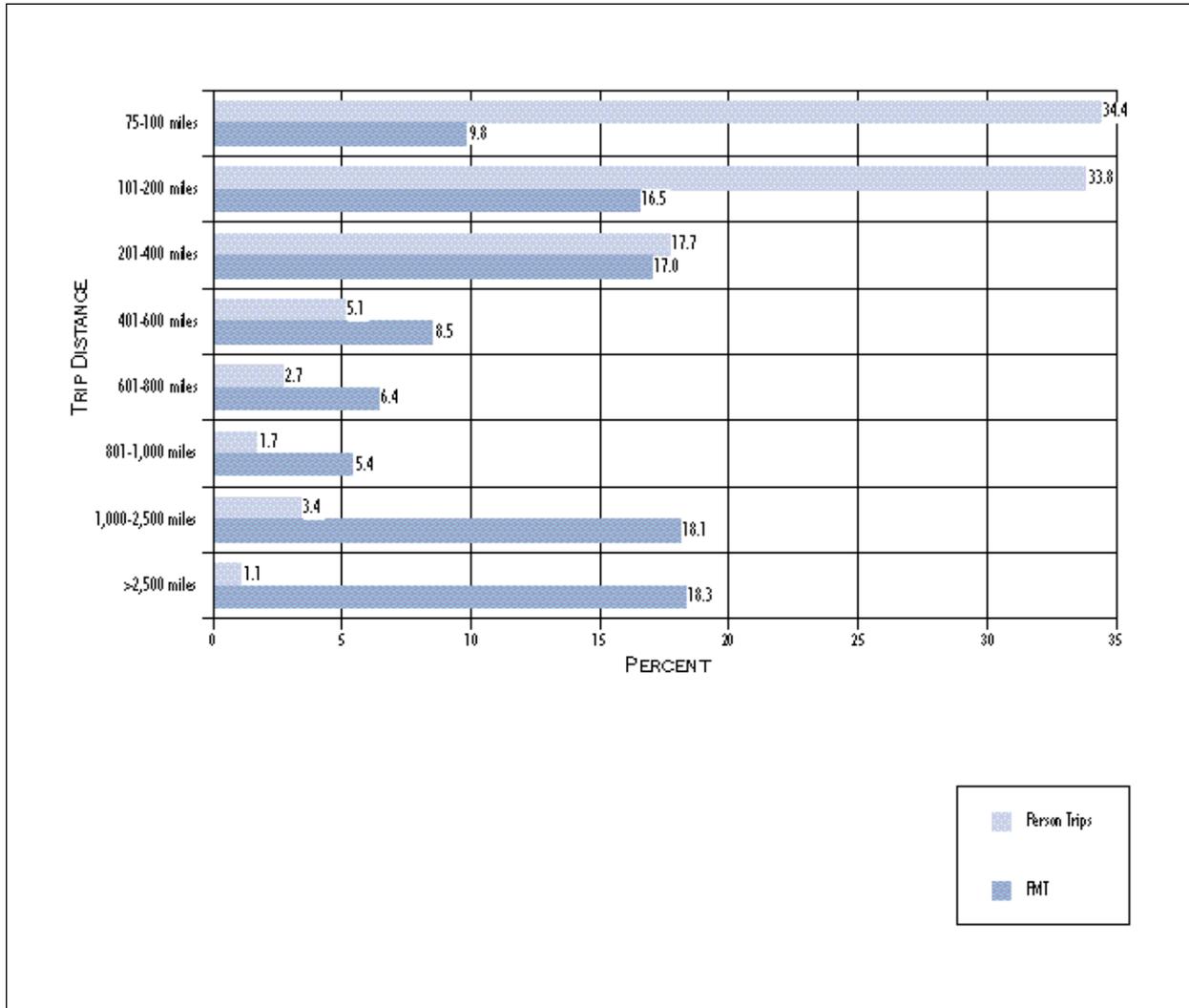
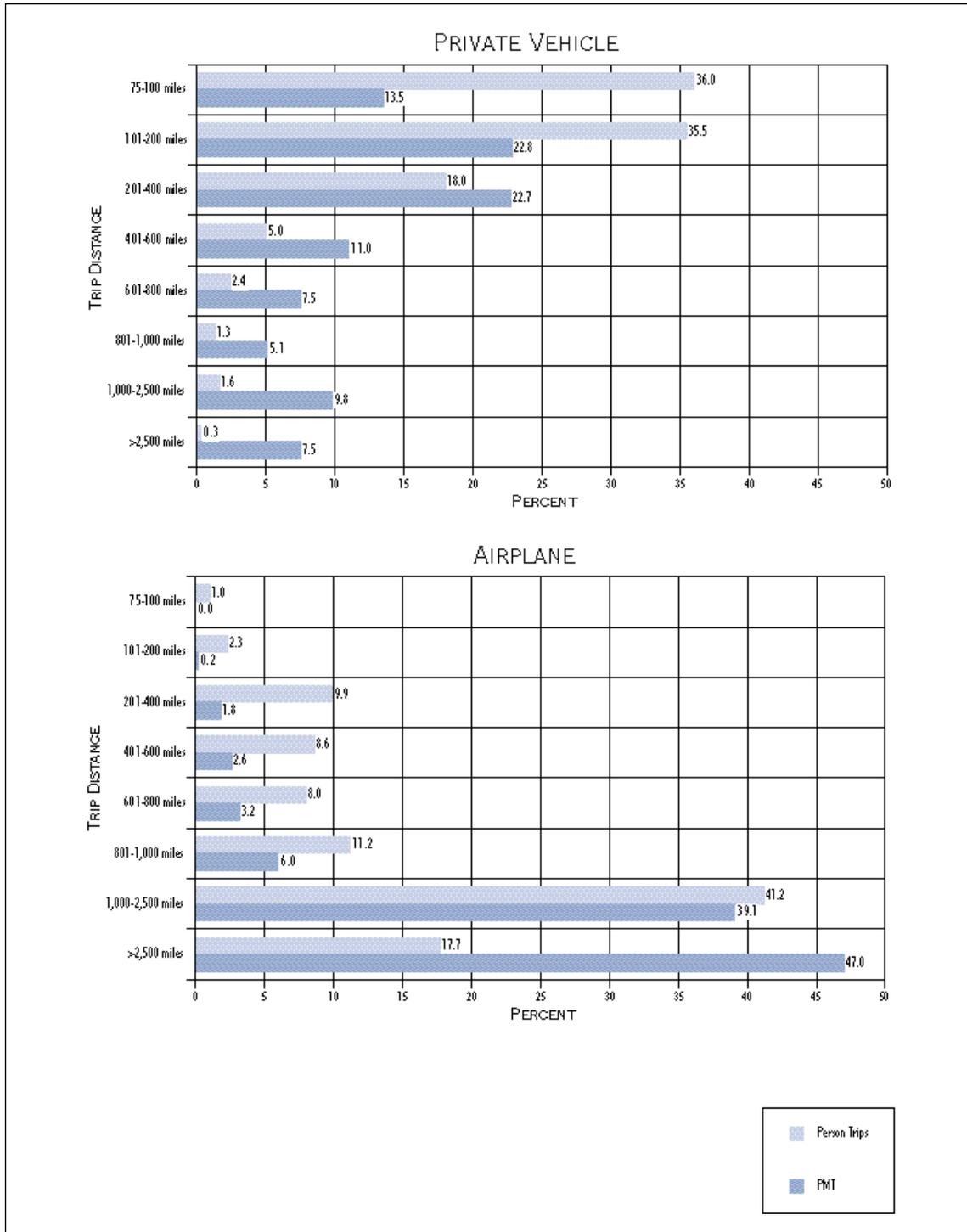


FIGURE 8.11

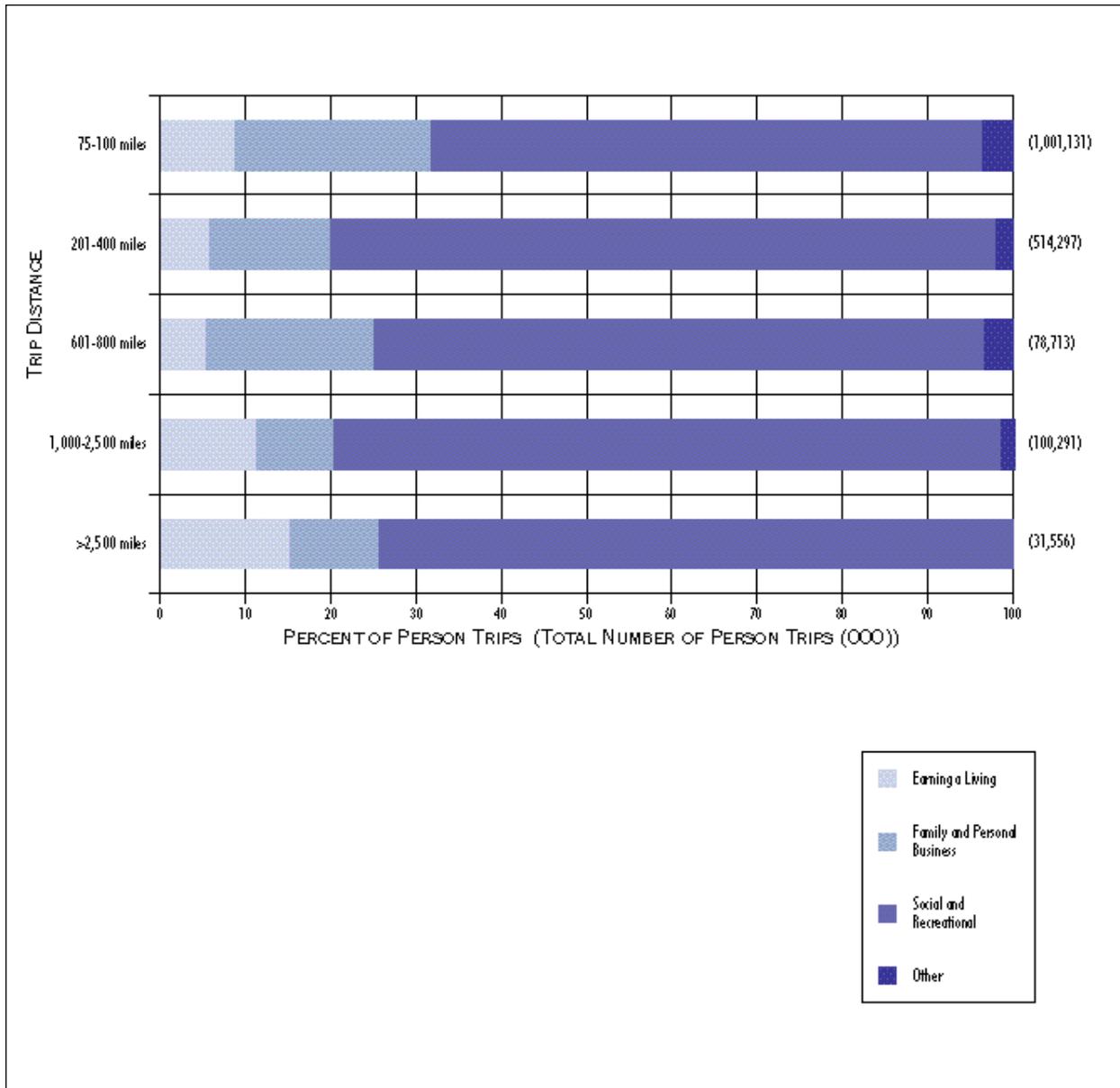
DISTRIBUTION OF TRAVEL PERIOD PERSON TRAVEL FOR PRIVATE VEHICLE AND AIRPLANE BY TRIP DISTANCE
1990 NPTS



TRIP CHARACTERISTICS CHARACTERISTICS OF LONGER TRIPS

FIGURE 8.12

DISTRIBUTION OF TRAVEL PERIOD PERSON TRIPS BY SELECTED TRIP DISTANCES AND TRIP PURPOSE
1990 NPTS



TRIP CHARACTERISTICS CHARACTERISTICS OF LONGER TRIPS

TABLE 8.22

**NUMBER OF TRAVEL PERIOD PERSON MILES OF TRAVEL BY TRIP DISTANCE AND TRIP PURPOSE
1990 NPTS
(MILLIONS)**

Trip Distance	Earning a Living	Family and Personal Business	Civic, Educational, and Religious	Social and Recreational	Other	TOTAL ¹
75-100 miles	7,408 (9.2%)	19,910 (15.4%)	2,035 (28.2%)	56,170 (8.5%)	1,004 (12.0%)	86,549 (9.8%)
101-200 miles	10,089 (12.5%)	29,242 (22.7%)	1,901 (26.3%)	103,175 (15.6%)	1,650 (19.7%)	146,230 (16.5%)
201-400 miles	9,083 (11.2%)	21,149 (16.4%)	1,518 (21.0%)	117,657 (17.8%)	922 (11.0%)	150,524 (17.0%)
401-600 miles	6,021 (7.5%)	11,787 (9.1%)	463 (6.4%)	55,934 (8.5%)	1,544 (18.4%)	75,750 (8.5%)
601-800 miles	3,202 (4.0%)	11,056 (8.6%)	1,080 (14.9%)	40,534 (6.1%)	774 (9.2%)	56,645 (6.4%)
801-1,000 miles	4,190 (5.2%)	3,147 (2.4%)	57 (0.8%)	40,104 (6.1%)	457 (5.5%)	47,955 (5.4%)
1,000-2,500 miles	18,182 (22.5%)	13,999 (10.8%)	114 (1.6%)	126,167 (19.1%)	2,030 (24.2%)	160,493 (18.1%)
>2,500 miles	22,577 (28.0%)	18,762 (14.5%)	59 (0.8%)	120,692 (18.3%)	** (0.0%)	162,090 (18.3%)
TOTAL	80,752 (100.0%)	129,053 (100.0%)	7,227 (100.0%)	660,431 (100.0%)	8,382 (100.0%)	886,235 (100.0%)

¹ Includes miles of travel where trip purpose was unreported. ** Indicates no data reported.

Seventy-eight percent of the long-distance trips were taken by automobiles, and 12.5% by pickup trucks. Passenger vans were used for a disproportionately high percent of long-distance trips. The average length of a long-distance vehicle trip was 220 miles in 1990.

TABLE 8.23

NUMBER OF TRAVEL PERIOD VEHICLE TRIPS AND TRAVEL PERIOD VEHICLE MILES OF TRAVEL
BY VEHICLE TYPE
1990 NPTS

Vehicle Type	Vehicle Trips (000)	Vehicle Miles of Travel (000,000)	Average Trip Length (miles)	Percent of Household Vehicles
Automobile	1,204,043 (78.4%)	257,834 (76.4%)	214.1	74.7
Passenger Van	101,323 (6.6%)	29,712 (8.8%)	293.2	4.8
Pickup Truck	191,352 (12.5%)	36,110 (10.7%)	188.7	17.2
RV/Motor Home	11,748 (0.8%)	6,002 (1.8%)	510.9	0.5
Motorcycle	9,833 (0.6%)	1,458 (0.4%)	148.3	1.3
Other ¹	16,966 (1.1%)	6,216 (1.8%)	366.4	1.3
TOTAL	1,535,265 (100.0%)	337,332 (100.0%)	219.7	100.0

¹ Includes cargo van, other truck and moped.

Two thirds of the long-distance vehicle trips were for social and recreational purposes, 21.2% were for family and personal business, and less than 10% were for work-related purposes. The most common reason for taking a

long trip within the social and recreational category was for visiting friends or relatives, accounting for 33% of total long-distance vehicle trips.

TABLE 8.24

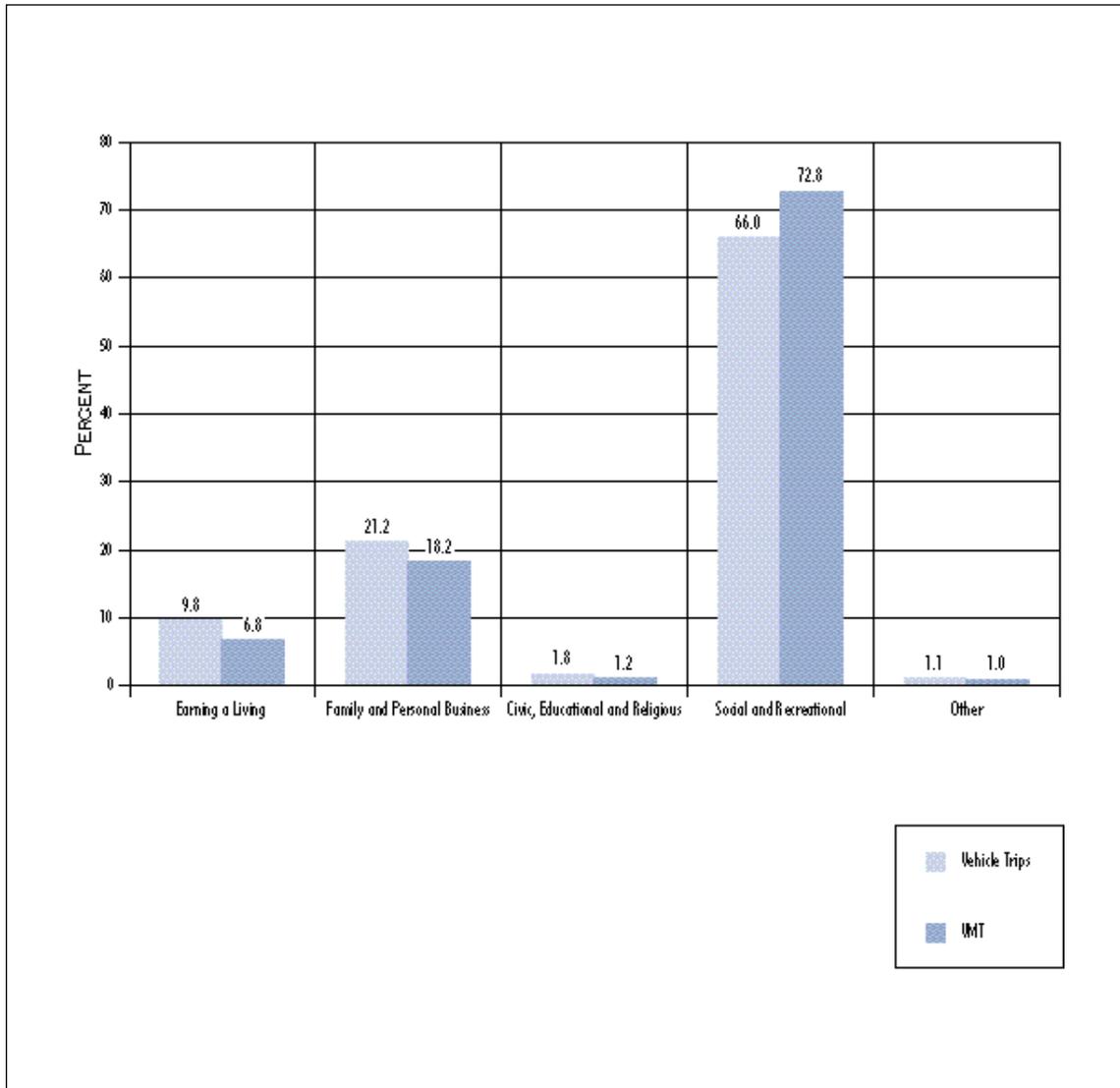
NUMBER OF TRAVEL PERIOD VEHICLE TRIPS AND TRAVEL PERIOD VEHICLE MILES OF TRAVEL
BY TRIP PURPOSE
1990 NPTS

	Vehicle Trips (000)		Vehicle Miles of Travel (000,000)		Average Trip Length (miles)
EARNING A LIVING					
To or from Work	42,352	(2.8%)	5,206	(1.5%)	122.9
Work Related Business	108,168	(7.0%)	17,802	(5.3%)	164.6
Subtotal	150,520	(9.8%)	23,008	(6.8%)	152.9
FAMILY & PERSONAL BUSINESS					
Family/Personal Related	249,726	(16.3%)	52,449	(15.5%)	210.0
Shopping	52,448	(3.4%)	6,092	(1.8%)	116.2
Doctor/Dentist	23,698	(1.5%)	2,741	(0.8%)	115.7
Subtotal	325,872	(21.2%)	61,283	(18.2%)	188.1
CIVIC, EDUCATIONAL, & RELIGIOUS					
Subtotal	27,598	(1.8%)	4,141	(1.2%)	150.1
SOCIAL & RECREATIONAL					
Vacation	152,696	(9.9%)	57,237	(17.0%)	374.8
Visiting Friends/Relatives	498,897	(32.5%)	119,358	(35.4%)	239.2
Pleasure Driving	37,945	(2.5%)	6,905	(2.0%)	182.0
Other	324,419	(21.1%)	61,993	(18.4%)	191.1
Subtotal	1,013,957	(66.0%)	245,493	(72.8%)	242.1
OTHER					
Subtotal	16,178	(1.1%)	3,226	(1.0%)	199.4
TOTAL¹	1,535,265	(100.0%)	337,332	(100.0%)	219.7

¹ Includes trips and miles of travel where trip purpose was unreported.

FIGURE 8.13

DISTRIBUTION OF TRAVEL PERIOD VEHICLE TRAVEL BY TRIP PURPOSE
1990 NPTS



TRIP CHARACTERISTICS CHARACTERISTICS OF LONGER TRIPS

TABLE 8.25

**NUMBER OF TRAVEL PERIOD VEHICLE TRIPS AND TRAVEL PERIOD VEHICLE MILES OF TRAVEL
BY VEHICLE TYPE AND TRIP PURPOSE
1990 NPTS**

Vehicle Type	Vehicle Trips (000)	Vehicle Miles of Travel (000,000)	Average Trip Length (miles)
AUTOMOBILE			
Earning a Living	110,936 (9.2%)	16,201 (6.3%)	146.0
Family & Personal Business	250,890 (20.8%)	47,351 (18.4%)	188.7
Social & Recreational	807,895 (67.1%)	188,212 (73.0%)	233.0
All Other	33,511 (2.8%)	5,930 (2.3%)	177.0
Subtotal¹	1,204,043 (100.0%)	257,834 (100.0%)	214.1
VAN			
Earning a Living	10,374 (9.8%)	1,565 (4.8%)	150.9
Family & Personal Business	23,859 (22.5%)	4,371 (13.3%)	183.2
Social & Recreational	69,558 (65.6%)	26,323 (80.3%)	378.4
All Other	2,204 (2.1%)	530 (1.6%)	240.4
Subtotal¹	105,996 (100.0%)	32,789 (100.0%)	309.3
PICKUP TRUCK			
Earning a Living	26,448 (13.8%)	3,969 (11.0%)	150.1
Family & Personal Business	46,409 (24.3%)	8,350 (23.1%)	179.9
Social & Recreational	110,478 (57.7%)	22,876 (63.4%)	207.1
All Other	7,689 (4.0%)	874 (2.4%)	113.6
Subtotal¹	191,352 (100.0%)	36,110 (100.0%)	188.7

¹ Includes trips or miles of travel where trip purpose was unreported.

TABLE 8.26

**NUMBER OF TRAVEL PERIOD VEHICLE TRIPS BY VEHICLE TYPE AND TRIP PURPOSE
1990 NPTS
(THOUSANDS)**

	Earning a Living	Family and Personal Business	Civic, Educational, and Religious	Social and Recreational	Other	TOTAL ¹
Auto	110,936 (73.7%)	250,890 (77.0%)	21,863 (79.2%)	807,895 (79.7%)	11,648 (72.0%)	1,204,043 (78.4%)
Passenger Van	8,480 (5.6%)	22,800 (7.0%)	1,438 (5.2%)	68,145 (6.7%)	460 (2.8%)	101,323 (6.6%)
Pickup Truck	26,448 (17.6%)	46,409 (14.2%)	4,149 (15.0%)	110,478 (10.9%)	3,540 (21.9%)	191,352 (12.5%)
RV/Motor Home	** (0.0%)	72 (0.0%)	** (0.0%)	11,676 (1.2%)	** (0.0%)	11,748 (0.8%)
Motorcycle	** (0.0%)	1,198 (0.4%)	** (0.0%)	8,412 (0.8%)	224 (1.4%)	9,833 (0.6%)
Other²	4,657 (3.1%)	4,504 (1.4%)	148 (0.5%)	7,351 (0.7%)	306 (1.9%)	16,966 (1.1%)
TOTAL	150,520 (100.0%)	325,872 (100.0%)	27,598 (100.0%)	1,013,957 (100.0%)	16,178 (100.0%)	1,535,265 (100.0%)
¹ Includes trips where trip purpose was unreported.			** Indicates no data reported.			
² Includes cargo van, other truck and moped.						

TABLE 8.27

**NUMBER OF TRAVEL PERIOD VEHICLE MILES OF TRAVEL BY VEHICLE TYPE AND TRIP PURPOSE
1990 NPTS
(MILLIONS)**

	Earning a Living	Family and Personal Business	Civic, Educational, and Religious	Social and Recreational	Other	TOTAL ¹
Auto	16,201	47,351	3,539	188,212	2,392	257,834
	(70.4%)	(77.3%)	(85.5%)	(76.7%)	(74.1%)	(76.4%)
Passenger Van	1,241	4,162	261	23,850	198	29,712
	(5.4%)	(6.8%)	(6.3%)	(9.7%)	(6.1%)	(8.8%)
Pickup Truck	3,969	8,350	331	22,876	543	36,110
	(17.2%)	(13.6%)	(8.0%)	(9.3%)	(16.8%)	(10.7%)
RV/Motor Home	**	50	**	5,952	**	6,002
	(0.0%)	(0.1%)	(0.0%)	(2.4%)	(0.0%)	(1.8%)
Motorcycle	**	158	**	1,278	22	1,458
	(0.0%)	(0.3%)	(0.0%)	(0.5%)	(0.7%)	(0.4%)
Other²	1,596	1,212	11	3,325	72	6,216
	(6.9%)	(2.0%)	(0.3%)	(1.3%)	(2.2%)	(1.8%)
TOTAL	23,008	61,283	4,141	245,493	3,226	337,332
	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)
¹ Includes miles of travel where trip purpose was unreported.			** Indicates no data reported.			
² Includes cargo van, other truck and moped.						

FIGURE 8.14

DISTRIBUTION OF TRAVEL PERIOD VEHICLE TRAVEL AND VEHICLES BY VEHICLE TYPE
1990 NPTS

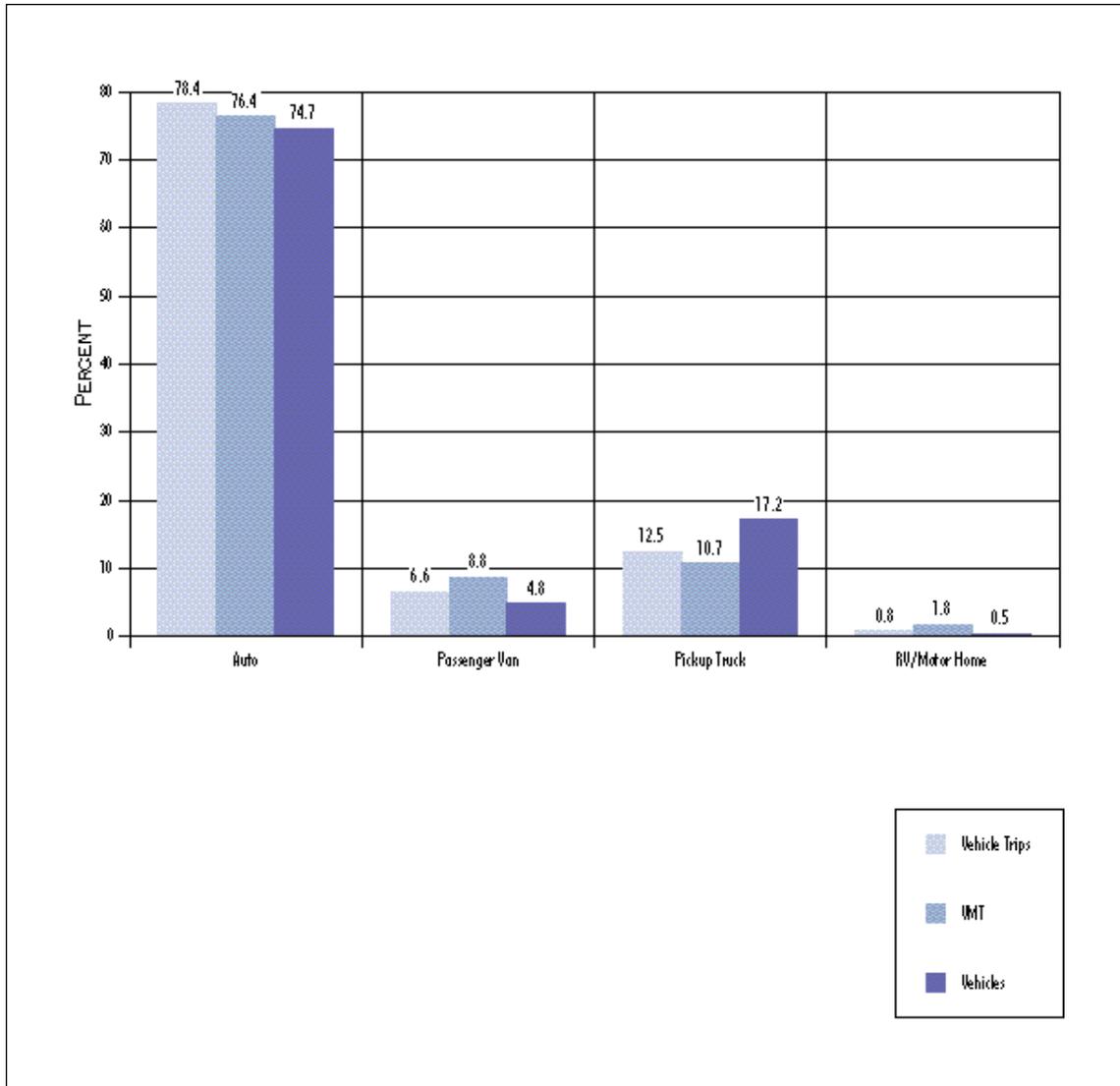


TABLE 8.28

**NUMBER OF TRAVEL PERIOD PERSON TRIPS AND TRAVEL PERIOD PERSON MILES OF TRAVEL BY SEASON¹
1983 AND 1990 NPTS²**

	Person Trips (000)		Person Miles of Travel (000,000)		Average Trip Length	
	1983	1990	1983	1990	1983	1990
Winter	428,736 (20.3%)	543,826 (18.7%)	155,367 (24.3%)	147,814 (16.7%)	362	272
Spring	523,776 (24.8%)	698,765 (24.0%)	144,498 (22.6%)	256,084 (28.9%)	276	366
Summer	618,816 (29.3%)	846,347 (29.1%)	195,009 (30.5%)	250,275 (28.2%)	315	296
Fall	534,336 (25.3%)	703,661 (24.2%)	143,219 (22.4%)	206,599 (23.3%)	218	294
Unknown	6,336 (0.3%)	114,473 (3.9%)	1,279 (0.2%)	25,463 (2.9%)	241	222
TOTAL	2,112,000 (100.0%)	2,907,071 (100.0%)	639,372 (100.0%)	886,235 (100.0%)	303	305
¹ Season: Spring = Mar-May, Summer = June-Aug, Fall = Sept-Nov, Winter = Dec-Feb.			² For information on comparing 1983 and 1990 NPTS survey data, see Section 4 of Chapter 1.			

TABLE 8.29

**NUMBER OF TRAVEL PERIOD VEHICLE TRIPS BY TRIP PURPOSE AND SEASON'
1990 NPTS
(THOUSANDS)**

	Spring	Summer	Fall	Winter	Unreported	TOTAL
EARNING A LIVING						
To or from Work	8,622	6,165	19,270	6,096	2,198	42,352
Work Related Business	33,764	21,938	25,390	21,016	6,060	108,168
Subtotal	42,386	28,103	44,660	27,112	8,259	150,520
FAMILY & PERSONAL BUSINESS						
Other Family/Personal Business	66,147	61,945	62,238	49,104	10,292	249,726
Shopping	13,720	8,761	12,766	13,147	4,054	52,448
Doctor/Dentist	6,243	4,706	5,092	6,342	1,315	23,698
Subtotal	86,110	75,411	80,096	68,593	15,661	325,872
CIVIC, EDUCATIONAL, & RELIGIOUS						
Subtotal	7,911	8,610	5,858	3,969	1,251	27,598
SOCIAL & RECREATIONAL						
Vacation	30,048	75,258	31,067	10,940	5,383	152,696
Visiting Friends/Relatives	112,967	119,037	128,008	115,456	23,429	498,897
Pleasure Driving	10,802	14,453	7,503	3,257	1,930	37,945
Other Social/Recreational	68,848	100,221	81,889	59,677	13,783	324,419
Subtotal	222,665	308,969	248,466	189,330	44,525	1,013,957
OTHER						
Subtotal	4,944	4,668	3,500	2,660	406	16,178
TOTAL²	364,179	425,762	382,580	292,479	70,264	1,535,265
	(23.7%)	(27.7%)	(24.9%)	(19.1%)	(4.6%)	(100.0%)
¹ Season: Spring = Mar-May, Summer = June-Aug, Fall = Sept-Nov, Winter = Dec-Feb.			² Includes trips where trip purpose was unreported.			

THE NPTS did not collect detailed geographic information on the destination and origin of long-distance trips. Instead, it contains information on the sizes of the destination (e.g., MSA or non-MSA) and the name of the foreign country if traveling abroad. If the destination was MSA's with a population greater than one million, then the specific name of the MSA was given. The outgoing trips were assumed to be home-based, and the return trips were assumed to be from the destinations of the outgoing trips. Based on this limited information on the origins and destinations of long-distance trips, the following five tables present approx-

imate estimates of long-distance passenger flow. A conservative estimate suggests that 84% of long-distance trips were intercity or international travel. This estimate was derived by subtracting from the total number of long-distance person trips (1) 301,236 thousand trips for which one cannot distinguish whether the origin and the destination were within the same area, and (2) 170,992 thousand trips for which the destinations were the same MSA's from which the trips were originated (Table 8.31).

TABLE 8.30

**NUMBER OF TRAVEL PERIOD PERSON TRIPS BY TYPE OF ORIGIN AND DESTINATION
1990 NPTS
(THOUSANDS)**

Trip Origin	Trip Destination				TOTAL
	20 Largest MSA's	Remainder of MSA's with a population of 1,000,000 +	MSA's with a population less than 1,000,000 or Non-MSA	Foreign Country	
20 Largest MSA's	293,082 (36.5%)	275,295 (34.3%)	219,015 (27.3%)	15,700 (2.0%)	803,092 (100.0%)
Remainder of MSA's with a population of 1,000,000+	276,178 (24.3%)	440,131 (38.7%)	411,530 (36.2%)	9,870 (0.9%)	1,137,708 (100.0%)
MSA's with a population less than 1,000,000 or Non-MSA	219,018 (23.4%)	411,535 (44.0%)	301,236 (32.2%)	4,416 (0.5%)	936,204 (100.0%)
Foreign Country ¹	15,672 (52.1%)	9,978 (33.2%)	4,416 (14.7%)	** (0.0%)	30,066 (100.0%)
TOTAL	803,951 (27.7%)	1,136,939 (39.1%)	936,196 (32.2%)	29,986 (1.0%)	2,907,071 (100.0%)

¹ These are return portions of trip period trips to a foreign country. ** Indicates no data available.

On average, about 90% of the long-distance trips that originated in MSA's with a population greater than one million were to places outside the originating metropolitan areas. However, passenger-flow patterns were different depending on the sizes of the origins. About 20% of the long-distance trips that

were originated in the twenty largest MSA's were to destinations within the originating MSA. However, only 2.3% of the trips that were originated from the remaining MSA's with a population greater than one million travelled within the same MSA.

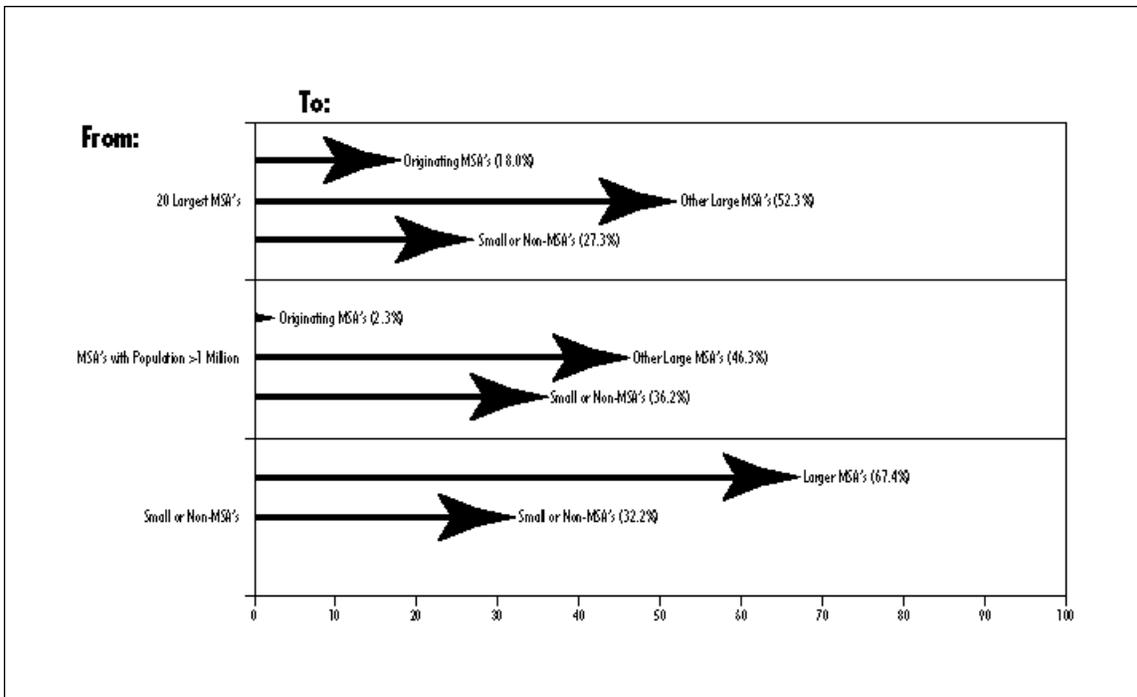
TABLE 8.31

NUMBER OF TRAVEL PERIOD PERSON TRIPS ORIGINATED FROM AN MSA WITH A POPULATION GREATER THAN ONE MILLION BY WHETHER TRAVELLED TO ANOTHER MSA
1990 NPTS
(THOUSANDS)

Trip Origin	Trip Destination		TOTAL
	Within Originating MSA	Outside Originating MSA	
Top 20 MSA's	144,265 (18.0%)	658,827 (82.0%)	803,092 (100.0%)
Remaining MSA's that are 1,000,000+	26,727 (2.3%)	1,110,981 (97.7%)	1,137,708 (100.0%)

FIGURE 8.15

DISTRIBUTION OF TRAVEL PERIOD PERSON TRIPS BY TYPE OF ORIGIN AND DESTINATION
1990 NPTS



TYPE OF TRIP ORIGIN AND DESTINATION CHARACTERISTICS OF LONGER TRIPS

This table shows the percentages of long-distance trips by privately owned vehicles from a particular type of origin to a particular type of destination. For example, 86.9% of all long-distance person trips from the twenty largest MSA's to the twenty largest MSA's were by privately owned vehicles - 254,586 thousand trips out of a total of 293,082 thou-

sand trips (Table 8.30). In general, trips to MSA's with a population less than one million or to non-MSA's were taken by privately owned vehicles more frequently than trips to larger MSA's or to foreign countries. This pattern might reflect shorter-distance trips to smaller places or the destinations not being conveniently served by airports (Table 8.33).

TABLE 8.32

NUMBER OF TRAVEL PERIOD PERSON TRIPS TAKEN BY A PRIVATE VEHICLE
BY TYPE OF ORIGIN AND DESTINATION
1990 NPTS
(THOUSANDS)

Trip Origin	Trip Destination				TOTAL
	20 Largest MSA's	Remainder of MSA's with a population of 1,000,000 +	MSA's with a population less than 1,000,000 or Non-MSA	Foreign Country	
20 Largest MSA's	254,586	241,367	207,394	11,410	714,757
Remainder of MSA's with a population of 1,000,000+	243,194	411,357	401,270	5,862	1,061,683
MSA's with a population less than 1,000,000 or Non-MSA	206,539	401,893	296,658	3,572	908,662
Foreign Country	11,555	5,862	3,572	*	20,989
TOTAL	715,874	1,060,479	908,894	20,844	2,706,091

** Indicates no data available.

TABLE 8.33

PERCENT¹ OF TRAVEL PERIOD PERSON TRIPS TAKEN BY A PRIVATE VEHICLE
 BY TYPE OF ORIGIN AND DESTINATION
 1990 NPTS
 (PERCENT)

Trip Origin	Trip Destination				TOTAL
	20 Largest MSA's	Remainder of MSA's with a population of 1,000,000 +	MSA's with a population less than 1,000,000 or Non-MSA	Foreign Country	
20 Largest MSA's	86.9%	87.7%	94.7%	72.7%	89.0%
Remainder of MSA's with a population of 1,000,000+	88.1%	93.5%	97.5%	59.4%	93.3%
MSA's with a population less than 1,000,000 or Non-MSA	94.3%	97.7%	98.5%	80.9%	97.1%
Foreign Country	73.7%	58.7%	80.9%	**	69.8%
TOTAL	89.0%	93.3%	97.1%	69.5%	93.1%

¹ These numbers are percentages of all person trips from a particular type of origin to a particular type of destination that were taken by a private vehicle.

** Indicates no data available.

TABLE 8.34

NUMBER OF TRAVEL PERIOD PERSON TRIPS TAKEN BY AN AIRPLANE BY TYPE OF ORIGIN AND DESTINATION
1990 NPTS
(THOUSANDS)

Trip Origin	Trip Destination				TOTAL
	20 Largest MSA's	Remainder of MSA's with a population of 1,000,000 +	MSA's with a population less than 1,000,000 or Non-MSA	Foreign Country	
20 Largest MSA's	27,226	23,660	6,417	3,853	61,156
Remainder of MSA's with a population of 1,000,000+	22,808	20,809	4,536	3,109	51,262
MSA's with a population less than 1,000,000 or Non-MSA	7,029	4,090	1,109	844	13,072
Foreign Country	3,680	3,194	844	**	7,718
TOTAL	60,743	51,754	12,906	7,806	133,208

** Indicates no data available.

TABLE 8.35

**PERCENT¹ OF TRAVEL PERIOD PERSON TRIPS TAKEN BY AN AIRPLANE
BY TYPE OF ORIGIN AND DESTINATION
1990 NPTS
(PERCENT)**

Trip Origin	Trip Destination				TOTAL
	20 Largest MSA's	Remainder of MSA's with a population of 1,000,000 +	MSA's with a population less than 1,000,000 or Non-MSA	Foreign Country	
20 Largest MSA's	9.3%	8.6%	2.9%	24.5%	7.6%
Remainder of MSA's with a population of 1,000,000+	8.3%	4.7%	1.1%	31.5%	4.5%
MSA's with a population less than 1,000,000 or Non-MSA	3.2%	1.0%	0.4%	19.1%	1.4%
Foreign Country	23.5%	32.0%	19.1%	**	25.7%
TOTAL	7.6%	4.6%	1.4%	26.0%	4.6%

¹ These numbers are the percentages of all person trips from a particular type of origin to a particular type of destination that were taken by an airplane.

** Indicates no data available.

TABLE 8.36

**NUMBER OF TRAVEL PERIOD VEHICLE TRIPS BY TYPE OF ORIGIN AND DESTINATION
1990 NPTS
(THOUSANDS)**

Trip Origin	Trip Destination				TOTAL
	20 Largest MSA's	Remainder of MSA's with a population of 1,000,000 +	MSA's with a population less than 1,000,000 or Non-MSA	Foreign Country	
20 Largest MSA's	154,576 (37.7%)	144,560 (35.3%)	106,529 (26.0%)	4,060 (1.0%)	409,725 (100.0%)
Remainder of MSA's with a population of 1,000,000+	147,558 (23.8%)	246,794 (39.8%)	222,651 (35.9%)	2,380 (0.4%)	619,383 (100.0%)
MSA's with a population less than 1,000,000 or Non-MSA	107,009 (21.4%)	224,061 (44.9%)	167,162 (33.5%)	761 (0.2%)	498,994 (100.0%)
Foreign Country	4,135 (57.7%)	2,386 (33.3%)	643 (9.0%)	** (0.0%)	7,163 (100.0%)
TOTAL	413,278 (26.9%)	617,801 (40.2%)	496,985 (32.4%)	7,201 (0.5%)	1,535,265 (100.0%)

** Indicates no data available.

Similar to the patterns of long-distance person trips, only about 10% of long-distance vehicle trips that were originated in MSA's with a population greater than one million were travelling within the originating MSA.

Also, traffic-flow patterns differ depending on the sizes of the origins - trips that originated in a smaller MSA (with a population less than one million) were considerably more likely to go to larger MSA's.

TABLE 8.37

NUMBER OF TRAVEL PERIOD VEHICLE TRIPS ORIGINATED FROM AN MSA
WITH A POPULATION GREATER THAN ONE MILLION BY WHETHER TRAVELLED TO ANOTHER MSA
1990 NPTS
(THOUSANDS)

Trip Origin	Trip Destination		TOTAL
	Within Originating MSA	Outside Originating MSA	
Top 20 MSA's	81,822 (20.0%)	327,903 (80.0%)	409,725 (100.0%)
Remaining MSA's that are 1,000,000+	17,276 (2.8%)	602,107 (97.2%)	619,383 (100.0%)

