
Chapter 1

Person and Vehicle Trip Rates

This chapter focuses on trip rates for households and persons, rather than counts or distributions of trips by subgroups. Person trip rates and vehicle trip rates are described by trip purpose, gender and age of the trip-makers, availability of vehicles, and household size and income.

Vehicle trips are trips in privately operated vehicles (POVs).

Comparisons are made with 1983 survey results and between several urban size groups. Average daily person trip summaries are also shown with breakdowns of transportation mode, gender, and age.

To provide NPTS results more comparable to typical regional household travel surveys, the tables on trip rates use only *weekday* trips of 75 miles or less. Remaining chapters of this report include both *weekday* and *weekend* travel, but exclude trips greater than 75 miles.

Key Findings

- The average 1990 household generated 6.9 person trips and 4.6 vehicle trips per day. The average person made 3.9 person trips and 2.5 vehicle trips each day.
- The average daily vehicle trip rate in 1990 for households in large urban areas that have rail transit service available was 21.5 percent lower than for those households in other large urban areas without rail service.
- Household size, income level, and availability of vehicles are shown to be important determinants of household person and vehicle trips.
- The most significant change from 1983 to 1990 was the increased proportion of person trips for family/personal business, aside from shopping. In fact, by 1990, such trips surpassed the average person's daily trips to and from work when including both weekday and weekend travel.
- For all trips, there were 242.1 billion person trips in 1990, up from 227.6 billion in 1983, a 6.3 percent increase over the 6-year period.

FIGURE 1-1
Daily Trip Rates per Household by Urban Size Group
(Weekdays)

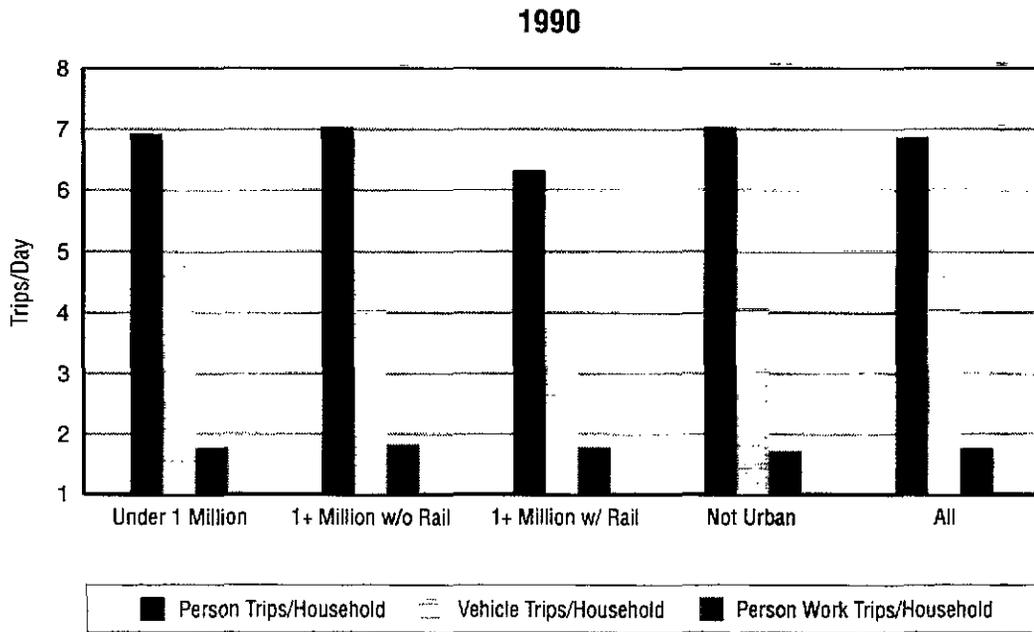
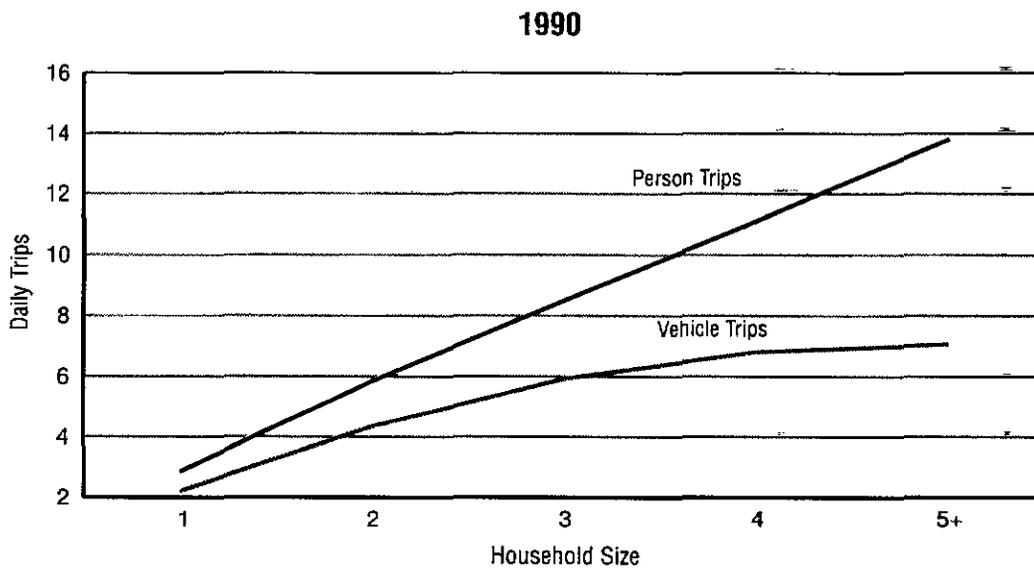


FIGURE 1-2
Daily Trip Rates per Household by Household Size
(Weekdays)



Note: Excludes trips greater than 75 miles.

Person and Vehicle Trips

The trip rate tables, Tables 1-1 through 1-12, include only weekday trips of 75 miles or less. These tables showing person and vehicle trip rates were prepared to be more comparable to regional household surveys. Tables 1-1 through 1-5 and 1-11 show person trip rates; Tables 1-6 through 1-9 and 1-12 show vehicle trip rates. Tables 1-13 and 1-14 include both weekday and weekend travel.

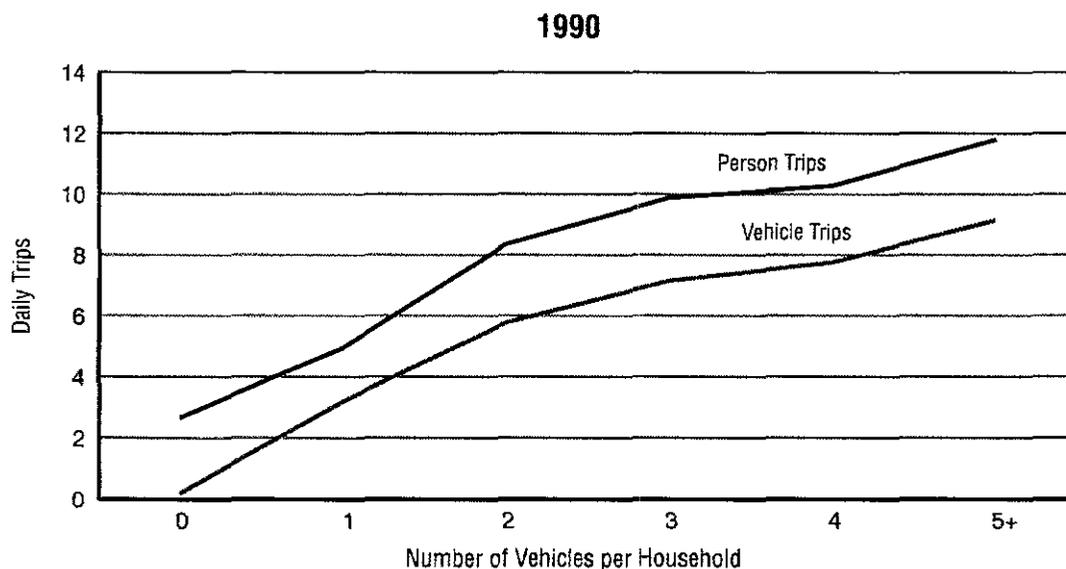
As shown in Figure 1-1 and Tables 1-2 and 1-7, the average household made 6.9 daily person trips and 4.6 daily vehicle trips in 1990. As shown in Figure 1-2, person trips increased in direct proportion with household size. Vehicle trips also increased with household size but at progressively lower rates as household size approaches five or more persons. In fact,

vehicle trips increased by only 0.27 vehicle trip, or 3.8 percent, as household size increased from four to five or more persons.

For weekday travel, home-based work trips (to and from work and work-related business) remained the most common type of household trip. They comprised more than one-fourth (25.9 percent) of the daily person trips (Table 1-1) and almost one-third (32.2 percent) of the daily vehicle trips (Table 1-6) of the average 1990 household. (Later in this chapter, Tables 1-13 and 1-14 show that when weekend trips are included, home-based family/personal business trips, other than shopping, become slightly more prevalent than work-related trips.)

Home-based work trips for the average household surveyed were fewer than two per day, 1.8 person trips and 1.5 vehicle trips (Table 1-1 and

FIGURE 1-3
Daily Trip Rates by Vehicles per Household
(Weekdays)



Note: Excludes trips greater than 75 miles.

1-6). This is because some surveyed households had no workers and some had workers who were ill, worked at home, worked part-time, or were on vacation and, therefore, did not report a work trip. Trip chaining also affected the average reported here.

Other home-based person trips are the second most frequently made person trip (1.8 per day) for the average household (Table 1-1). Such trips include medical, school, church, other family/personal business, and miscellaneous trips.

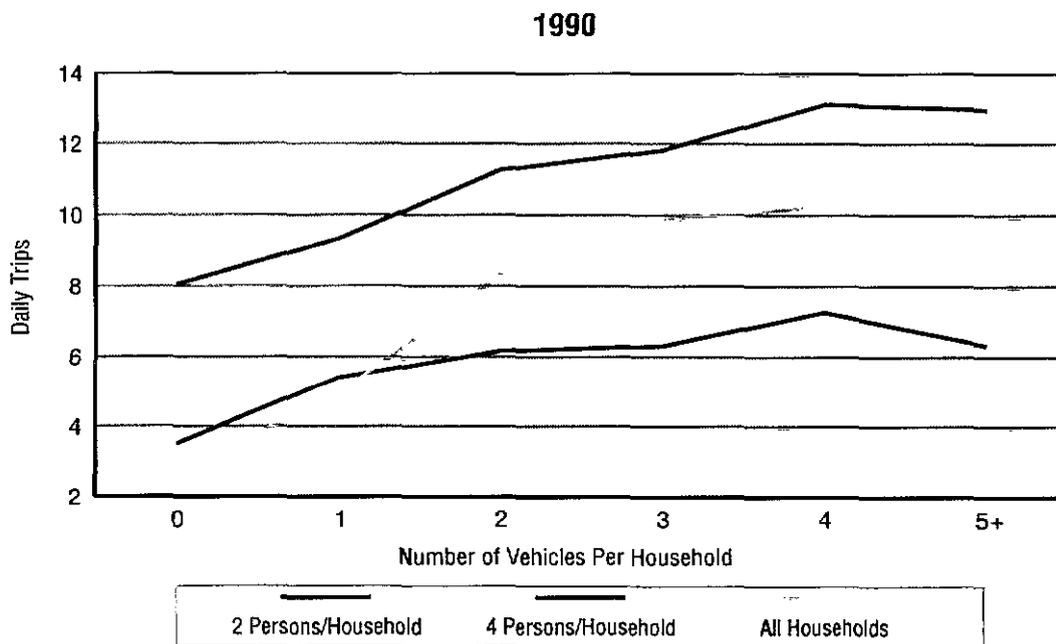
Non-home-based person trips (1.5 per day) are trips that begin and end at points other than the

home. They represented 22.1 percent of all household person trips in 1990 (Table 1-1).

Fewer Trips in Urbanized Areas with Rail

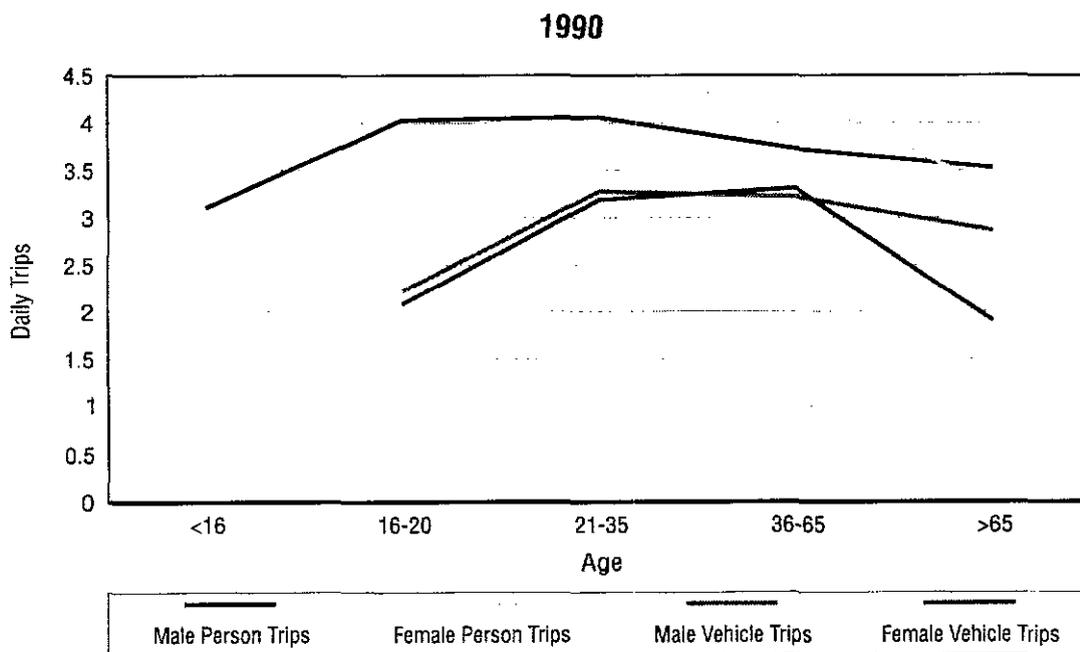
There is little difference in the trip rates among the several urban size groups. The exceptions are the variations seen in the urban group with rail (Figure 1-1 and Tables 1-1 and 1-6), where the lower-than-average total person and vehicle trip rates (6.3 and 3.8, respectively) are mostly accounted for by fewer-than-average non-home-based trips (both person and vehicle trips) and fewer-than-average work-related vehicle trips. The average vehicle trip rate in urban areas with rail was 21.5 percent less than in areas without rail (Table 1-6).

FIGURE 1-4
Daily Person Trip Rates by Vehicles per Household
(Weekdays)



Note: Excludes trips greater than 75 miles.

FIGURE 1-5
Daily Trip Rates by Age and Gender
(Weekdays)



Note: Excludes trips greater than 75 miles.

In particular, vehicle trip rates for work are significantly lower in areas with rail service. Chapter 4 on travel mode shows that both transit (bus and rail/subway) and walk trips contribute to lower vehicle trip rates in these areas. In addition, the number of non-home-based person trips in urban areas with rail may be fewer because the rail commuter is less likely to make intermediate stops on the way to and from work than the commuter in a privately operated vehicle.

Numbers of Vehicles and Size of Household are Keys to Predicting Trips

Figures 1-3 and 1-4 and Tables 1-5 and 1-10 show that the number of vehicles available to households is an important determinant of trip-making. Zero-vehicle households average just

2.6 person trips and 0.2 vehicle trip each day. At the other extreme, households with five or more available vehicles average 11.8 person trips and 9.2 vehicle trips each day.

As shown in Figure 1-4 and Table 1-5, the size of the household also determines household trip rates. On average, two-person households with two vehicles available made 75.0 percent more trips than two-person households with zero vehicles available. Similarly, the four-person household with four vehicles available made 40.4 percent more person trips than the four-person household with one vehicle available.

Average Person Makes 3.9 Trips per Day

Table 1-11 shows 1990 daily person trips, with the average person making 3.9 trips per day.

Also, 84.0 percent of total trips, or 3.3 trips per day, were made in privately operated vehicles (POVs). Table 1-12 shows vehicle trip rates by age and gender.

These two tables and Figure 1-5 show that although females generally average more trips per day than males in the same age group, males generally make more vehicle trips. One exception was that women age 36 to 65 make slightly more vehicle trips than men in the same age group. After age 65, males continue to make almost as many vehicle trips as in their younger adult years. After age 65, females make far fewer daily vehicle trips than males. However, adding all age groups (Table 1-12), the average female made nearly as many vehicle trips each day as the average male.

Other Family/Personal Business Trips Increase in Proportion of Total Trips

When both weekday and weekend travel are included, the most frequently reported trip purpose in 1990 was for family/personal business, other than shopping (Table 1-13). In 1983, there was a larger difference in the proportion of earning a living trips (22.9 percent) and family/personal business, other than shopping (17.4 percent) than in 1990 (21.7 percent and 22.7 percent, respectively). However, the 1983 to 1990 differences in the other categories -- visit friends/relatives, other social/recreational, and shopping -- are small and may indicate that part of the shift is the result of coding variations.

Table 1-14 shows that trips for earning a living still account for the largest proportion of VMT (36.5 percent), despite the above cited proportional shifts in trips.

TABLE 1-1
Daily Person Trips per Household by Trip Purpose and Urban Size Group
(Weekdays)

1990

| Trip Purpose | Urban Size Group | | | | All |
|--------------------------------|------------------|----------------------|---------------------|----------------|-------------|
| | Under 1 Million | 1 Million + w/o Rail | 1 Million + w/ Rail | Not Urban Area | |
| Home-Based Work | 1.78 | 1.84 | 1.79 | 1.73 | 1.78 |
| Home-Based Shopping | 0.77 | 0.74 | 0.75 | 0.78 | 0.76 |
| Home-Based Social/Recreational | 1.02 | 1.02 | 0.90 | 0.99 | 0.98 |
| Home-Based Other | 1.81 | 1.88 | 1.64 | 1.94 | 1.84 |
| Non-Home-Based | 1.56 | 1.57 | 1.24 | 1.60 | 1.52 |
| All | 6.93 | 7.04 | 6.33 | 7.04 | 6.88 |

Note: Excludes trips greater than 75 miles.

TABLE 1-2
Daily Person Trips per Household by Household Size and Urban Size Group
(Weekdays)

1990

| Household Size | Urban Size Group | | | | All |
|----------------|------------------|----------------------|---------------------|----------------|-------------|
| | Under 1 Million | 1 Million + w/o Rail | 1 Million + w/ Rail | Not Urban Area | |
| One | 2.85 | 3.35 | 2.74 | 2.69 | 2.87 |
| Two | 6.15 | 6.02 | 5.87 | 5.63 | 5.87 |
| Three | 9.30 | 8.29 | 7.65 | 8.65 | 8.53 |
| Four | 11.41 | 10.82 | 9.64 | 11.87 | 11.14 |
| Five + | 13.67 | 14.24 | 12.39 | 14.43 | 13.83 |
| All | 6.93 | 7.04 | 6.33 | 7.04 | 6.88 |

Note: Excludes trips greater than 75 miles.

TABLE 1-3
Daily Person Trips per Household by Household Income and Urban Size Group
(Weekdays)

1990

| Household Income | Urban Size Group | | | | All |
|--------------------|------------------|----------------------|---------------------|----------------|-------------|
| | Under 1 Million | 1 Million + w/o Rail | 1 Million + w/ Rail | Not Urban Area | |
| < \$5,000 | 4.73 | 5.93 | 4.41 | 4.27 | 4.66 |
| \$5,000 to 9,999 | 5.04 | 4.02 | 4.21 | 4.19 | 4.38 |
| \$10,000 to 14,999 | 4.20 | 5.14 | 3.30 | 5.75 | 4.94 |
| \$15,000 to 19,999 | 6.65 | 6.23 | 5.03 | 6.15 | 6.13 |
| \$20,000 to 24,999 | 6.57 | 6.71 | 5.95 | 7.43 | 6.85 |
| \$25,000 to 29,999 | 7.18 | 6.71 | 7.26 | 8.25 | 7.55 |
| \$30,000 to 34,999 | 8.14 | 7.30 | 6.60 | 8.61 | 7.86 |
| \$35,000 to 39,999 | 8.21 | 7.57 | 7.08 | 8.94 | 8.22 |
| \$40,000 to 44,999 | 10.13 | 9.11 | 6.43 | 9.57 | 8.96 |
| \$45,000 to 49,999 | 9.42 | 10.34 | 9.00 | 10.99 | 10.10 |
| \$50,000 to 54,999 | 10.02 | 8.69 | 8.22 | 9.71 | 9.23 |
| \$55,000 to 59,999 | 11.11 | 9.61 | 7.48 | 10.35 | 9.76 |
| \$60,000 to 64,999 | 11.69 | 9.73 | 9.00 | 9.46 | 9.96 |
| \$65,000 to 69,999 | 9.82 | 10.18 | 9.83 | 8.93 | 9.64 |
| \$70,000 to 74,999 | 9.80 | 10.89 | 9.22 | 10.60 | 10.26 |
| \$75,000 to 79,999 | 10.06 | 8.36 | 9.45 | 11.77 | 9.76 |
| \$80,000 + | 9.65 | 9.36 | 9.66 | 9.92 | 9.65 |
| All | 6.93 | 7.04 | 6.33 | 7.04 | 6.88 |

Note: Excludes trips greater than 75 miles.

TABLE 1-4
Daily Person Trips per Household by Household Vehicles and Urban Size Group
(Weekdays)

1990

| Household Vehicles | Urban Size Group | | | | |
|--------------------|------------------|----------------------|---------------------|----------------|-------|
| | Under 1 Million | 1 Million + w/o Rail | 1 Million + w/ Rail | Not Urban Area | All |
| Zero | 2.52 | 2.48 | 3.25 | 2.02 | 2.64 |
| One | 4.90 | 5.42 | 5.03 | 4.62 | 4.93 |
| Two | 8.52 | 8.41 | 8.04 | 8.32 | 8.34 |
| Three | 10.91 | 9.45 | 9.91 | 9.63 | 9.87 |
| Four | 12.68 | 10.43 | 11.46 | 9.36 | 10.27 |
| Five + | 11.54 | 14.37 | 11.74 | 11.34 | 11.81 |
| All | 6.93 | 7.04 | 6.33 | 7.04 | 6.88 |

Note: Excludes trips greater than 75 miles.

TABLE 1-5
Daily Person Trips per Household by Household Vehicles,
Household Size, and Urban Size Group
(Weekdays)

1990

Household Size

| Household Vehicles | One | Two | Three | Four | Five + | All |
|-----------------------------|-------------|-------------|--------------|--------------|---------------|-------------|
| Under 1 Million | | | | | | |
| Zero | 1.12 | 4.12 | 4.70 | 8.21 | 5.26 | 2.52 |
| One | 3.37 | 5.40 | 8.04 | 8.97 | 10.23 | 4.90 |
| Two | 2.94 | 6.49 | 9.58 | 11.49 | 14.91 | 8.52 |
| Three | 2.86 | 7.19 | 11.28 | 12.59 | 15.24 | 10.91 |
| Four | 1.72 | 9.85 | 12.16 | 14.82 | 15.62 | 12.68 |
| Five + | 1.66 | 6.65 | 9.64 | 12.21 | 17.68 | 11.54 |
| All | 2.85 | 6.15 | 9.30 | 11.41 | 13.67 | 6.93 |
| 1 Million + w/o Rail | | | | | | |
| Zero | 1.46 | 2.92 | 4.33 | 10.22 | 5.93 | 2.48 |
| One | 3.75 | 5.64 | 8.31 | 9.53 | 14.39 | 5.42 |
| Two | 3.63 | 6.15 | 8.22 | 10.60 | 14.93 | 8.41 |
| Three | 4.73 | 6.84 | 8.86 | 11.92 | 13.86 | 9.46 |
| Four | 3.80 | 8.05 | 10.12 | 12.15 | 13.73 | 10.43 |
| Five + | 5.31 | 9.00 | 13.86 | 16.53 | 15.23 | 14.37 |
| All | 3.35 | 6.02 | 8.29 | 10.82 | 14.24 | 7.04 |
| 1 Million + w/ Rail | | | | | | |
| Zero | 1.79 | 3.98 | 5.36 | 7.27 | 9.16 | 3.25 |
| One | 3.19 | 5.64 | 6.90 | 8.33 | 9.85 | 5.03 |
| Two | 2.94 | 6.54 | 7.65 | 10.31 | 11.89 | 8.04 |
| Three | 5.00 | 6.35 | 10.09 | 10.38 | 15.69 | 9.91 |
| Four | 0.93 | 7.68 | 8.54 | 10.19 | 15.95 | 11.46 |
| Five + | 5.00 | 5.90 | 7.35 | 8.79 | 13.92 | 11.74 |
| All | 2.74 | 5.87 | 7.65 | 9.64 | 12.39 | 6.33 |

Note: Excludes trips greater than 75 miles.

TABLE 1-5 (Continued)
Daily Person Trips per Household by Household Vehicles,
Household Size, and Urban Size Group
(Weekdays)

1990

Household Size

| Household Vehicles | One | Two | Three | Four | Five + | All |
|-----------------------|-------------|-------------|-------------|--------------|--------------|-------------|
| Not Urban Area | | | | | | |
| Zero | 1.23 | 2.51 | 5.13 | 8.57 | 9.67 | 2.02 |
| One | 2.87 | 5.16 | 8.02 | 10.10 | 10.22 | 4.62 |
| Two | 3.68 | 5.87 | 8.48 | 11.99 | 15.06 | 8.32 |
| Three | 3.42 | 5.92 | 9.79 | 11.99 | 15.75 | 9.63 |
| Four | 3.69 | 6.50 | 8.18 | 13.70 | 12.82 | 9.35 |
| Five + | 4.46 | 6.01 | 9.78 | 12.99 | 15.14 | 11.34 |
| All | 2.69 | 5.63 | 8.65 | 11.87 | 14.43 | 7.04 |
| All | | | | | | |
| Zero | 1.43 | 3.53 | 4.97 | 8.06 | 7.46 | 2.64 |
| One | 3.24 | 5.41 | 7.79 | 9.35 | 11.03 | 4.93 |
| Two | 3.42 | 6.18 | 8.54 | 11.28 | 14.44 | 8.34 |
| Three | 3.91 | 6.32 | 9.97 | 11.83 | 15.31 | 9.87 |
| Four | 3.13 | 7.26 | 8.80 | 13.13 | 14.25 | 10.27 |
| Five + | 3.74 | 6.32 | 10.15 | 12.97 | 15.42 | 11.81 |
| All | 2.87 | 5.87 | 8.53 | 11.14 | 13.83 | 6.88 |

Note: Excludes trips greater than 75 miles.

TABLE 1-6
Daily Vehicle Trips per Household by Trip Purpose and Urban Size Group
(Weekdays)

1990

| Trip Purpose | Urban Size Group | | | | All |
|--------------------------------|------------------|----------------------|---------------------|----------------|-------------|
| | Under 1 Million | 1 Million + w/o Rail | 1 Million + w/ Rail | Not Urban Area | |
| Home-Based Work | 1.53 | 1.60 | 1.28 | 1.53 | 1.49 |
| Home-Based Shopping | 0.55 | 0.50 | 0.41 | 0.56 | 0.52 |
| Home-Based Social/Recreational | 0.55 | 0.52 | 0.43 | 0.52 | 0.51 |
| Home-Based Other | 1.00 | 0.98 | 0.73 | 1.00 | 0.95 |
| Non-Home-Based | 1.07 | 1.13 | 0.79 | 1.10 | 1.04 |
| All | 4.77 | 4.79 | 3.76 | 4.79 | 4.59 |

Note: Excludes trips greater than 75 miles.

TABLE 1-7
Daily Vehicle Trips per Household by Household Size and Urban Size Group
(Weekdays)

1990

| Household Size | Urban Size Group | | | | All |
|----------------|------------------|----------------------|---------------------|----------------|-------------|
| | Under 1 Million | 1 Million + w/o Rail | 1 Million + w/ Rail | Not Urban Area | |
| One | 2.30 | 2.69 | 1.69 | 2.22 | 2.23 |
| Two | 4.75 | 4.68 | 3.71 | 4.33 | 4.37 |
| Three | 6.51 | 6.01 | 4.83 | 6.16 | 5.95 |
| Four | 7.00 | 6.74 | 5.59 | 7.37 | 6.83 |
| Five + | 7.36 | 7.10 | 6.10 | 7.46 | 7.09 |
| All | 4.77 | 4.79 | 3.76 | 4.79 | 4.59 |

Note: Excludes trips greater than 75 miles.

TABLE 1-8
Daily Vehicle Trips per Household by Household Income and Urban Size Group
(Weekdays)

1990

| Household Income | Urban Size Group | | | | |
|--------------------|------------------|----------------------|---------------------|----------------|------|
| | Under 1 Million | 1 Million + w/o Rail | 1 Million + w/ Rail | Not Urban Area | All |
| < \$5,000 | 2.59 | 2.23 | 1.37 | 2.04 | 2.09 |
| \$5,000 to 9,999 | 2.67 | 2.29 | 1.19 | 2.58 | 2.32 |
| \$10,000 to 14,999 | 3.03 | 3.19 | 1.54 | 3.64 | 3.12 |
| \$15,000 to 19,999 | 4.59 | 3.98 | 2.61 | 4.11 | 4.00 |
| \$20,000 to 24,999 | 4.49 | 4.40 | 3.58 | 5.05 | 4.55 |
| \$25,000 to 29,999 | 4.59 | 4.86 | 4.09 | 5.82 | 5.05 |
| \$30,000 to 34,999 | 5.68 | 5.30 | 3.89 | 5.95 | 5.37 |
| \$35,000 to 39,999 | 6.09 | 5.18 | 4.50 | 5.94 | 5.60 |
| \$40,000 to 44,999 | 7.03 | 5.99 | 4.32 | 6.60 | 6.11 |
| \$45,000 to 49,999 | 6.80 | 6.91 | 5.74 | 7.93 | 7.01 |
| \$50,000 to 54,999 | 7.42 | 6.75 | 5.03 | 6.88 | 6.59 |
| \$55,000 to 59,999 | 8.82 | 6.96 | 5.13 | 7.42 | 7.14 |
| \$60,000 to 64,999 | 8.45 | 6.37 | 6.54 | 7.00 | 7.10 |
| \$65,000 to 69,999 | 7.32 | 7.95 | 6.28 | 5.78 | 6.69 |
| \$70,000 to 74,999 | 8.16 | 8.13 | 6.47 | 7.32 | 7.56 |
| \$75,000 to 79,999 | 7.04 | 6.45 | 6.14 | 9.17 | 7.11 |
| \$80,000 + | 7.16 | 7.10 | 6.45 | 6.93 | 6.86 |
| All | 4.77 | 4.79 | 3.76 | 4.79 | 4.59 |

Note: Excludes trips greater than 75 miles.

TABLE 1-9
Daily Vehicle Trips per Household by Household Vehicles and Urban Size Group
(Weekdays)

1990

| Household Vehicles | Urban Size Group | | | | |
|--------------------|------------------|----------------------|---------------------|----------------|------|
| | Under 1 Million | 1 Million + w/o Rail | 1 Million + w/ Rail | Not Urban Area | All |
| Zero | 0.20 | 0.24 | 0.08 | 0.17 | 0.16 |
| One | 3.42 | 3.62 | 2.71 | 3.05 | 3.18 |
| Two | 6.01 | 5.77 | 5.56 | 5.71 | 5.76 |
| Three | 8.06 | 7.17 | 7.37 | 6.72 | 7.14 |
| Four | 9.36 | 8.17 | 8.22 | 7.09 | 7.75 |
| Five + | 8.83 | 11.09 | 8.50 | 8.99 | 9.15 |
| All | 4.77 | 4.79 | 3.76 | 4.79 | 4.59 |

Note: Excludes trips greater than 75 miles.

TABLE 1-10
Daily Vehicle Trips per Household by Household Vehicles,
Household Size, and Urban Size Group
(Weekdays)

1990

Household Size

| Household Vehicles | One | Two | Three | Four | Five + | All |
|-----------------------------|------|------|-------|-------|--------|-------|
| Under 1 Million | | | | | | |
| Zero | 0.07 | 0.68 | 0.24 | 0.08 | 0.40 | 0.20 |
| One | 2.93 | 3.54 | 4.78 | 4.28 | 4.96 | 3.42 |
| Two | 2.63 | 5.46 | 7.01 | 7.05 | 7.26 | 6.01 |
| Three | 2.62 | 6.42 | 8.86 | 9.17 | 8.97 | 8.06 |
| Four | 1.72 | 7.39 | 10.92 | 10.93 | 10.18 | 9.36 |
| Five + | 1.66 | 4.93 | 7.18 | 7.03 | 14.36 | 8.83 |
| All | 2.30 | 4.75 | 6.51 | 7.00 | 7.36 | 4.77 |
| 1 Million + w/o Rail | | | | | | |
| Zero | 0.15 | 0.00 | 0.39 | 1.93 | 0.65 | 0.24 |
| One | 3.19 | 3.81 | 4.78 | 4.40 | 4.85 | 3.62 |
| Two | 3.44 | 5.08 | 6.20 | 6.64 | 7.35 | 5.77 |
| Three | 4.65 | 5.93 | 7.55 | 8.55 | 7.84 | 7.17 |
| Four | 3.80 | 6.85 | 7.97 | 9.37 | 9.92 | 8.17 |
| Five + | 3.46 | 7.00 | 12.65 | 13.62 | 10.78 | 11.09 |
| All | 2.69 | 4.68 | 6.01 | 6.74 | 7.10 | 4.79 |
| 1 Million + w/ Rail | | | | | | |
| Zero | 0.02 | 0.12 | 0.25 | 0.18 | 0.08 | 0.08 |
| One | 2.44 | 2.83 | 3.09 | 3.50 | 2.55 | 2.71 |
| Two | 2.89 | 5.19 | 5.63 | 6.34 | 6.37 | 5.56 |
| Three | 5.06 | 5.38 | 8.23 | 7.82 | 8.78 | 7.37 |
| Four | 0.93 | 5.02 | 6.59 | 8.48 | 10.24 | 8.22 |
| Five + | 3.00 | 4.55 | 7.35 | 7.60 | 9.60 | 8.50 |
| All | 1.69 | 3.71 | 4.83 | 5.59 | 6.10 | 3.76 |

Note: Excludes trips greater than 75 miles.

(Continued)

TABLE 1-10 (Continued)
Daily Vehicle Trips per Household by Household Vehicles,
Household Size, and Urban Size Group
(Weekdays)

1990

Household Size

| Household Vehicles | One | Two | Three | Four | Five + | All |
|-----------------------|------|------|-------|-------|--------|------|
| Not Urban Area | | | | | | |
| Zero | 0.07 | 0.12 | 0.79 | 1.92 | 0.69 | 0.17 |
| One | 2.55 | 3.08 | 4.06 | 5.20 | 4.17 | 3.05 |
| Two | 3.36 | 4.88 | 6.34 | 7.19 | 7.17 | 5.71 |
| Three | 3.20 | 4.80 | 7.59 | 7.69 | 8.88 | 6.72 |
| Four | 3.69 | 5.76 | 6.11 | 9.84 | 8.78 | 7.09 |
| Five + | 3.66 | 5.29 | 8.73 | 10.50 | 10.78 | 8.99 |
| All | 2.22 | 4.33 | 6.16 | 7.37 | 7.46 | 4.79 |
| All | | | | | | |
| Zero | 0.07 | 0.21 | 0.36 | 0.60 | 0.40 | 0.16 |
| One | 2.76 | 3.27 | 4.11 | 4.45 | 4.11 | 3.18 |
| Two | 3.16 | 5.11 | 6.34 | 6.89 | 7.09 | 5.76 |
| Three | 3.77 | 5.31 | 7.94 | 8.12 | 8.71 | 7.14 |
| Four | 3.13 | 6.17 | 6.81 | 9.76 | 9.60 | 7.75 |
| Five + | 2.93 | 5.26 | 8.84 | 10.31 | 11.29 | 9.15 |
| All | 2.23 | 4.37 | 5.95 | 6.83 | 7.09 | 4.59 |

Note: Excludes trips greater than 75 miles.

TABLE 1-11
Daily Trips per Person by Age, Gender, and Mode of Transportation
 (Urbanized Area Households, Weekday Travel)

1990

| Mode of Transportation | Under 16 | | 16 to 20 | | 21 to 35 | | 36 to 65 | | Over 65 | | All |
|------------------------|----------|--------|----------|--------|----------|--------|----------|--------|---------|--------|------|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | |
| POV | 1.68 | 2.00 | 3.03 | 3.14 | 3.57 | 3.83 | 3.41 | 3.90 | 3.21 | 2.78 | 3.26 |
| Transit | 0.09 | 0.08 | 0.19 | 0.22 | 0.13 | 0.15 | 0.10 | 0.09 | 0.09 | 0.11 | 0.12 |
| Other | 0.61 | 0.52 | 0.27 | 0.18 | 0.08 | 0.03 | 0.03 | 0.02 | 0.03 | 0.04 | 0.14 |
| Walk | 0.72 | 0.65 | 0.53 | 0.62 | 0.27 | 0.38 | 0.19 | 0.26 | 0.26 | 0.38 | 0.37 |
| All | 3.10 | 3.25 | 4.02 | 4.15 | 4.05 | 4.39 | 3.72 | 4.27 | 3.51 | 3.31 | 3.88 |

Note: Excludes trips greater than 75 miles.

TABLE 1-12
Daily Vehicle Trips per Person by Age and Gender
(Urbanized Area Households, Weekday Travel)

1990

| Age | Gender | | All |
|-----------------|---------------|---------------|-------------|
| | Male | Female | |
| 16 to 20 | 2.21 | 2.07 | 2.14 |
| 21 to 35 | 3.27 | 3.18 | 3.23 |
| 36 to 65 | 3.21 | 3.38 | 3.25 |
| Over 65 | 2.85 | 1.89 | 2.35 |
| All | 2.58 | 2.53 | 2.56 |

Note: Excludes trips greater than 75 miles.

**TABLE 1-13
Person Trips by Trip Purpose and Urban Size Group**

1983

| Trip Purpose | Urban Size Group | | | | All |
|-------------------------------------|--------------------|-------------------------|------------------------|----------------|----------------|
| | Under 1.25 Million | 1.25 Million + w/o Rail | 1.25 Million + w/ Rail | Not Urban Area | |
| Earning a Living | | | | | |
| To or From Work | 19.47% | 22.12% | 23.77% | 19.53% | 20.57% |
| Work-Related Business | 2.03 | 2.06 | 2.72 | 2.44 | 2.30 |
| Family and Personal Business | | | | | |
| Shopping | 19.01 | 19.88 | 17.16 | 17.50 | 18.22 |
| Other Family/Personal Business | 15.97 | 17.77 | 17.55 | 18.24 | 17.38 |
| Civic/Educational/Religious | 11.99 | 10.91 | 12.34 | 12.04 | 11.80 |
| Social and Recreational | | | | | |
| Vacation/Pleasure Driving | 0.86 | 0.44 | 0.36 | 0.64 | 0.67 |
| Visit Friends/Relatives | 11.31 | 10.34 | 9.63 | 11.34 | 10.89 |
| Other Social/Recreational | 17.18 | 14.12 | 14.54 | 15.71 | 15.78 |
| Other | 2.19 | 2.35 | 1.92 | 2.54 | 2.30 |
| Total | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| Person Trips (in Millions) | 71,490 | 31,693 | 33,714 | 82,680 | 227,589 |

Note: Excludes trips greater than 75 miles.

(Continued)

TABLE 1-13 (Continued)
Person Trips by Trip Purpose and Urban Size Group

1990

| Trip Purpose | Urban Size Group | | | | All |
|-------------------------------------|------------------|----------------------|---------------------|----------------|----------------|
| | Under 1 Million | 1 Million + w/o Rail | 1 Million + w/ Rail | Not Urban Area | |
| Earning a Living | | | | | |
| To or From Work | 19.75% | 20.80% | 22.33% | 19.34% | 20.32% |
| Work-Related Business | 1.33 | 1.31 | 1.13 | 1.49 | 1.35 |
| Family and Personal Business | | | | | |
| Shopping | 18.74 | 19.37 | 19.96 | 18.73 | 19.10 |
| Other Family/Personal Business | 22.30 | 22.61 | 20.43 | 24.09 | 22.66 |
| Civic/Educational/Religious | 11.49 | 10.83 | 10.88 | 11.97 | 11.42 |
| Social and Recreational | | | | | |
| Vacation/Pleasure Driving | 0.35 | 0.30 | 0.36 | 0.52 | 0.41 |
| Visit Friends/Relatives | 10.52 | 9.04 | 9.56 | 9.35 | 9.59 |
| Other Social/Recreational | 14.77 | 15.02 | 14.83 | 13.69 | 14.42 |
| Other | 0.74 | 0.71 | 0.52 | 0.80 | 0.71 |
| Total | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| Person Trips (in Millions) | 54,454 | 48,578 | 48,039 | 91,034 | 242,104 |

Note: Excludes trips greater than 75 miles.

TABLE 1-14
Person Trips and Vehicle Miles of Travel by Trip Purpose and Gender
(Urbanized Area Households)

1990

| Trip Purpose | Person Trips (All Modes) | | | VMT (POV) | | |
|-------------------------------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|
| | Male | Female | All | Male | Female | All |
| Earning a Living | | | | | | |
| To or From Work | 24.07% | 18.05% | 20.91% | 39.70% | 32.21% | 36.52% |
| Work-Related Business | 1.65 | 0.91 | 1.26 | 2.48 | 1.19 | 1.93 |
| Family and Personal Business | | | | | | |
| Shopping | 16.98 | 21.46 | 19.33 | 9.92 | 14.70 | 11.95 |
| Other Family/Personal Business | 19.58 | 23.81 | 21.80 | 17.27 | 23.40 | 19.87 |
| Civic/Educational/Religious | 10.87 | 11.26 | 11.08 | 4.02 | 5.40 | 4.61 |
| Social and Recreational | | | | | | |
| Vacation/Pleasure Driving | 0.41 | 0.28 | 0.34 | 1.03 | 0.43 | 0.78 |
| Visit Friends/Relatives | 9.50 | 9.96 | 9.74 | 10.11 | 11.78 | 10.82 |
| Other Social/Recreational | 16.19 | 13.68 | 14.87 | 14.76 | 10.29 | 12.86 |
| Other | 0.74 | 0.58 | 0.66 | 0.70 | 0.59 | 0.65 |
| Total | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| Person Trips (in Millions) | 71,720 | 79,319 | 151,039 | 397,968 | 292,793 | 690,761 |

Note: Excludes trips greater than 75 miles.