

JOSEPHINE COUNTY SUMMARY OF FINDINGS

I Executive Summary

Introduction

The purpose of the 1996 Oregon Travel Behavior Survey is to provide information suitable for gaining an in-depth understanding of the activity and travel behavior of both households in non-metropolitan areas and the individuals within those households. The sampling approach used was designed to ensure that representative statewide data were obtained.

The 1996 Oregon Travel Behavior Survey was conducted under the auspices of the Oregon Department of Transportation. This survey relied on the willingness of area residents to complete diary records of their daily travel. Recruitment of households was conducted through a "recruitment interview" in which respondents were informed of the survey, its purpose and the respondent's obligation to complete diaries. Data on households and household members were also collected during the recruitment interview.

Participating households were assigned a "2-day travel period", which typically occurred 10 days after recruitment. Household members were asked to record travel information in their diaries for the specified 48-hour period. Immediately after the assigned date, households were contacted to retrieve the diary information.

The survey consisted of a scientifically formulated sample design, appropriate instruments for data collection, a package of written materials to communicate with survey respondents, a toll-free survey hotline, and data collection, processing and reporting procedures that comported to standards of the Council of American Survey Research Organizations (CASRO).

Data collection of Josephine County was conducted from April to November 1996. Data collection resulted in 592 recruited households. Of these, 358 provided the necessary information to result in completed surveys. The total number of activities reported was 20,914, and the total number of trips was 4,628. These totals translate into an average of about 58.42 activities and about 12.93 trips per household for the two-day period. The sample included too few six- or seven-person households to make reliable estimates of person trip rates.

Average Person Trips Per Day

- One-person households averaged 2.38 trips per day,
- Two-person households averaged 5.34 trips per day,
- Three-person households averaged 9.32 trips per day,
- Four-person households averaged 14.41 trips per day,
- Five-person households averaged 11.19 trips per day,

The average rate for all households was roughly seven (7) trips per day.

Summary of Methods

The accompanying "Technical Memorandum" describes the sampling methodology in detail.

II Sampling and Response

Sample Design

The universe consists of households in the city of Grants Pass in Josephine County. The household count for the study area was 22,188 households. It was determined using projections of annual growth rates from 1994 and/or 1995 commercial estimates. For purposes of the survey, a household was defined as “all persons currently living in the same dwelling who typically share meals together as well as share at least a part of their income.”

The Oregon Travel Behavior Survey used a random sample of telephone numbers in the study area. A random sample is one in which the probability, or relative chance, that any given household will be included in the sample is the same for all households in the universe. The sampling frame for the Oregon Travel Behavior Survey consisted of listed and unlisted telephone numbers for Josephine County drawn in proportion to their distribution within the county. Due to the nature of the sampling frame requested in the survey proposal, households without telephones were excluded from the sample.

The Josephine County sample included the city of Grants Pass (zip codes 97526, 97527). These zip codes cover 76% of the households in the county.

Response Rate

The Oregon Travel Behavior Survey used a two-stage sampling process (household recruitment and household retrieval). In such a case, response rates for recruitment and retrieval stages are reported independently, and then an overall response rate is reported by multiplying the two rates.

The **recruitment rate** is calculated using the following formula:

$$\text{Recruitment rate} = \frac{\text{Number of Recruited Households}}{\text{Number of Eligible Households in Sample}}$$

The number of recruited households is known - 592 households. The number of eligible households in the sample is calculated from the dispositions recorded for each sample piece. Contact attempts yielded three types of sample dispositions: (1) Eligible Sample, (2) Ineligible Sample, and (3) Eligibility Unknown Sample (see Table II-1). In estimating the eligible households, the number of eligible sample units is combined with a pro-rated number of eligibility unknown sample units. The pro-rated number is determined by totaling the number of eligible and ineligible sample, and then identifying the portion of the total comprised by eligible or ineligible sample. The number of eligible households is then calculated by adding the proportion of unknown sample (72%) to the total number of recruited households. The recruitment rate for households in Josephine County was 63% of all eligible households.

Recruitment Rate Calculation		
	Calculation	Total/ Percent
Number of Recruited Households		592
Total Number of Eligible and Ineligible Sample	1084 + 429	1,513
Proportion of Eligible Sample	1084 / 1,513	72%
Proportion of Ineligible Sample	429 / 1,513	28%
Number of Eligible Households	592 + 350	942
Recruitment Rate	592 / 942	63%

Table II-1

Final Sample Dispositions (n=1,999)

Dispositions	Frequency	Percent	Total Number and Percent
Eligible Sample			54.2%
Recruited	592	29.6	
Second Refusal	449	22.5	
Terminated in middle of interview	14	0.7	
Over Quota	29	1.4	
			1084
Ineligible Sample			21.5%
Disconnected Number	228	11.4	
Deaf/Language	9	0.4	
Business/Government	131	6.6	
Computer/Fax	34	1.7	
Non-Qualified	25	1.2	
Non-Resident	2	.1	
			429
Eligibility Unknown Sample			24.3%
First Refusal	160	8.0	
No Answer	99	5.0	
Busy	17	.8	
Answering Machines	125	6.3	
Call Back Appointments/Requests	85	4.3	
			486
Total Sample Pieces	1,999	100.0	

The **completion rate** is the rate at which recruited households complete the survey process. It is a measure of sample attrition, which is one determinant of sample bias. This rate is calculated by dividing the total number of completed surveys (358) by the total number of recruited households (592). A completion rate of 60% was obtained. The **Overall Response Rate** is calculated by multiplying the recruitment rate (63%) by the completion rate (60%) for a rate of 38%.

The final day-of-week distribution is displayed in Table II-2. It shows a heavy concentration on beginning and end of the week travel, which should be considered during data analysis.

**Table II-2
Travel Day of Week Distribution
(n=420)**

Travel Day Pairs	Percent
Monday/Tuesday	38.3%
Tuesday/Wednesday	10.1%
Wednesday/Thursday	14.5%
Thursday/Friday	21.2%
Friday/Saturday	5.9%
Saturday/Sunday	0.0%
Sunday/Monday	10.1%

Survey Validation

Josephine County

The objective of validation was to estimate the precision of the survey results and evaluate the reasonableness of the survey results. The survey validation involved comparing regional population and housing characteristics with the 1990 STF-3A Census data for Josephine County for reasonableness. In 1990 Josephine County had 62,649 residents in 25,081 households; the total number of housing units was 26,912 while the number of occupied housing units was 25,081. During the study, 592 households were recruited, and 358 actually completed the survey. The following three tables (II-3, II-4, and II-5) compare these Census data elements to the survey data.

Survey respondents reported higher household incomes than are reflected by the Census (Table II-3). Several factors account for this discrepancy. First, the survey contacted only telephone households, while the Census reached every household. Non-telephone households tend to have lower incomes than telephone households, and this bias is reflected in the data. Second, six years have passed since Census data were collected. Incomes tend to increase over time, and this trend is reflected in the data. Third, the unemployment rate of survey respondents was considerably lower than the county-wide rate reported in the Census (see Table IV-4). A higher percentage of employed persons would generate a higher level of income, and this condition is reflected in the data as well.

Household sizes correspond well with Census data (Table II-4). Josephine County has an unusually low percentage of 6+ person households. Percentages of surveyed housing units with one, two, and three vehicles correspond with Census findings (Table II-5). There is some divergence at the extremes, however. The survey reached more higher-income households than are represented by the Census, and these households are more likely to own vehicles.

**Table II-3
Household Income**

Income	Recruited Households (n=592)	Completed Households (n=358)	Census Data (n=25,093)
\$0-\$4,999	0.67%	0.84%	8.08%
\$5,000-\$9,999	4.39%	4.47%	13.88%
\$10,000-\$14,999	6.76%	7.26%	14.29%
\$15,000-\$19,999	8.11%	10.06%	11.75%
\$20,000-\$24,999	8.78%	9.50%	9.47%
\$25,000-\$29,999	9.29%	10.06%	9.71%
\$30,000-\$34,999	9.12%	10.61%	8.00%
\$35,000-\$39,999	5.74%	6.42%	6.15%
\$40,000-\$44,999	9.97%	8.94%	4.67%
\$45,000-\$49,999	4.73%	4.75%	3.14%
\$50,000-\$54,999	4.90%	4.75%	2.77%
\$55,000-\$59,999	3.38%	2.79%	1.80%
\$60,000-\$100,000	5.41%	5.03%	4.73%
\$100,000 or more	2.03%	2.51%	1.56%
Refused	16.72%	12.01%	--

**Table II-4
Household Size**

Persons per Household	Recruited Households (n=592)	Completed Households (n=358)	Census Data (n=25,093)
1 Person	18.92%	22.62%	23.41%
2 Persons	52.87%	54.75%	40.79%
3 Persons	9.97%	9.78%	14.86%
4 Persons	11.66%	9.22%	12.17%
5 Persons	4.22%	2.23%	5.68%
6 Persons	1.69%	0.56%	1.88%
7 or More Persons	0.67%	0.84%	1.21%
Refused	0.00%	0.00%	--

**Table II-5
Vehicles available per Occupied Housing Unit**

Vehicles Available	Recruited Households (n=592)	Completed Households (n=358)	Census Data (n=25,081)
None	2.87%	2.51%	6.29%
One	21.45%	23.19%	31.89%
Two	36.66%	39.11%	40.17%
Three	22.97%	22.34%	15.86%
Four	10.14%	7.82%	3.81%
Five or More	5.91%	5.03%	1.98%
Refused	0.00%	0.00%	--

III Household Characteristics

The following tables provide information about respondents' households. Where available, collected data is compared to Census Data.

**Table III-1
Household Size by Income (Completed Households=358)**

Income		HH Size							Total
		1	2	3	4	5	6	7+	
less than \$4,999	Count	1	1	1	0	0	0	0	3
	Row %	33.34%	33.33%	33.33%	0.00%	0.00%	0.00%	0.00%	100.0%
	Column %	1.24%	0.51%	2.86%	0.00%	0.00%	0.00%	0.00%	0.9%
\$5,000 to \$9,999	Count	10	5	0	1	0	0	0	16
	Row %	62.50%	31.25%	0.00%	6.25%	0.00%	0.00%	0.00%	100.0%
	Column %	12.35%	2.55%	0.00%	3.03%	0.00%	0.00%	0.00%	4.5%
\$10,000 to \$14,999	Count	11	10	4	1	0	0	0	26
	Row %	42.31%	38.46%	15.38%	3.85%	0.00%	0.00%	0.00%	100.0%
	Column %	13.58%	5.10%	11.43%	3.03%	0.00%	0.00%	0.00%	7.3%
\$15,000 to \$19,999	Count	17	16	3	0	0	0	0	36
	Row %	47.22%	44.45%	8.33%	0.00%	0.00%	0.00%	0.00%	100.0%
	Column %	20.99%	8.16%	8.57%	0.00%	0.00%	0.00%	0.00%	10.1%
\$20,000 to \$24,999	Count	5	24	2	2	1	0	0	34
	Row %	14.71%	70.59%	5.88%	5.88%	2.94%	0.00%	0.00%	100.0%
	Column %	6.17%	12.25%	5.71%	6.06%	12.50%	0.00%	0.00%	9.5%
\$25,000 to \$29,999	Count	5	23	2	5	0	1	0	36
	Row %	13.89%	63.89%	5.55%	13.89%	0.00%	2.78%	0.00%	100.0%
	Column %	6.17%	11.74%	5.71%	15.15%	0.00%	50.00%	0.00%	10.1%
\$30,000 to \$34,999	Count	10	20	3	4	1	0	0	38
	Row %	26.32%	52.63%	7.89%	10.53%	2.63%	0.00%	0.00%	100.0%
	Column %	12.35%	10.21%	8.57%	12.12%	12.50%	0.00%	0.00%	10.6%
\$35,000 to \$39,999	Count	1	15	3	2	2	0	0	23
	Row %	4.35%	65.22%	13.04%	8.70%	8.69%	0.00%	0.00%	100.0%
	Column %	1.23%	7.65%	8.57%	6.06%	25.00%	0.00%	0.00%	6.4%

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**Table III-1 (Continued)
Household Size by Income (Completed Households=358)**

Income		HH Size							Total
		1	2	3	4	5	6	7+	
\$40,000 to \$44,999	Count	4	16	6	4	1	0	1	32
	Row %	12.50%	50.00%	18.75%	12.50%	3.13%	0.00%	3.12%	100.0%
	Column %	4.94%	8.16%	17.14%	12.12%	12.50%	0.00%	33.33%	8.9%
\$45,000 to \$49,999	Count	2	10	1	3	1	0	0	17
	Row %	11.77%	58.82%	5.88%	17.65%	5.88%	0.00%	0.00%	100.0%
	Column %	2.47%	5.10%	2.86%	9.09%	12.50%	0.00%	0.00%	4.7%
\$50,000 to \$54,999	Count	1	8	1	5	1	0	1	17
	Row %	5.89%	47.06%	5.88%	29.41%	5.88%	0.00%	5.88%	100.0%
	Column %	1.23%	4.08%	2.86%	15.15%	12.50%	0.00%	33.33%	4.7%
\$55,000 to \$59,999	Count	0	8	1	0	0	1	0	10
	Row %	0.00%	80.00%	10.00%	0.00%	0.00%	10.00%	0.00%	100.0%
	Column %	0.00%	4.08%	2.86%	0.00%	0.00%	50.00%	0.00%	2.8%
\$60,000 to \$100,000	Count	0	11	4	2	1	0	0	18
	Row %	0.00%	61.11%	22.22%	11.11%	5.56%	0.00%	0.00%	100.0%
	Column %	0.00%	5.61%	11.43%	6.06%	12.50%	0.00%	0.00%	5.0%
more than \$100,000	Count	0	5	3	1	0	0	0	9
	Row %	0.00%	55.56%	33.33%	11.11%	0.00%	0.00%	0.00%	100.0%
	Column %	0.00%	2.55%	8.57%	3.03%	0.00%	0.00%	0.00%	2.5%
Refused	Count	14	24	1	3	0	0	1	43
	Row %	32.56%	55.81%	2.33%	6.98%	0.00%	0.00%	2.32%	100.0%
	Column %	17.28%	12.25%	2.86%	9.10%	0.00%	0.00%	33.34%	12.0%
Total	Count	81	196	35	33	8	2	3	358
	Row %	22.62%	54.75%	9.78%	9.22%	2.23%	0.56%	0.84%	100%
	Column %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Table III-2
Household Size by Number of Vehicles Available
(Completed Households=358)**

Vehicles	HH Size								Total
	1	2	3	4	5	6	7+		
None	Count	9	0	0	0	0	0	0	9
	Row %	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.0%
	Column %	11.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.5%
1	Count	46	31	3	2	1	0	0	83
	Row %	55.42%	37.35%	3.61%	2.41%	1.21%	0.00%	0.00%	100.0%
	Column %	56.79%	15.82%	8.57%	6.06%	12.50%	0.00%	0.00%	23.2%
2	Count	18	94	14	10	2	0	2	140
	Row %	12.86%	67.14%	10.00%	7.14%	1.43%	0.00%	1.43%	100.0%
	Column %	22.22%	47.96%	40.00%	30.30%	25.00%	0.00%	66.67%	39.1%
3	Count	5	48	10	12	2	2	1	80
	Row %	6.25%	60.00%	12.50%	15.00%	2.50%	2.50%	1.25%	100.0%
	Column %	6.17%	24.49%	28.57%	36.37%	25.00%	100.00%	33.33%	22.4%
4	Count	2	13	3	7	3	0	0	28
	Row %	7.14%	46.43%	10.71%	25.00%	10.72%	0.00%	0.00%	100.0%
	Column %	2.47%	6.63%	8.57%	21.21%	37.50%	0.00%	0.00%	7.8%
5 or more	Count	1	10	5	2	0	0	0	18
	Row %	5.55%	55.56%	27.78%	11.11%	0.00%	0.00%	0.00%	100.0%
	Column %	1.24%	5.10%	14.29%	6.06%	0.00%	0.00%	0.00%	5.0%
Refused	Count	0	0	0	0	0	0	0	0
	Row %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.0%
	Column %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	Count	81	196	35	33	8	2	3	358
	Row %	22.62%	54.75%	9.78%	9.22%	2.23%	0.56%	0.84%	100.0%
	Column %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

**Table III-3
Dwelling Type (All Housing Units)**

Type of Dwelling	Recruited Households (n=592)	Completed Households (n=358)	Census Data (n=26,912)
Single, Detached	80.41%	80.73%	66.70%
Multi Unit	5.24%	5.59%	9.58%
Mobile Home or Trailer	13.51%	12.85%	22.93%
Other	0.50%	0.55%	0.79%
Refused	0.34%	0.28%	--

**Table III-4
Owner/Renter Status (Occupied Housing Units)**

Tenure	Recruited Households (n=592)	Completed Households (n=358)	Census Data (n=25,081)
Own	86.32%	85.20%	70.44%
Rent	12.16%	13.13%	29.56%
Other	0.51%	0.84%	--
Refused	1.01%	0.83%	--

**Table III-5
Length of Residence (Occupied Housing Units)**

	Recruited Households (n=592)	Completed Households (n=358)	Census Data (n=25,081)
Less than 6 months	3.38%	2.51%	24.45%
6 months to 1 year	3.04%	3.91%	
1 to 5 years	8.95%	8.94%	28.16%
5 to 10 years	6.59%	6.15%	15.24%
10 to 20 years	5.91%	6.98%	22.54%
20 years or more	5.07%	5.03%	9.61%
Refused	67.06%	66.48%	--

IV Person Characteristics

The following tables provide information about the respondents themselves. Where available, collected data is compared to Census Data.

**Table IV-1
Gender**

Gender	Recruited Percentage (n=1418)	Completed Percentage (n=789)	Census Data (n=62,649)
Male	48.02%	48.67%	48.71%
Female	51.98%	51.33%	51.29%
Refused	0.00%	0.00%	--

**Table IV-2
Age of Household Members**

Age	Recruited Percentage (n=1418)	Completed Percentage (n=789)	Census Data (n=62,649)
0-4	3.32%	2.53%	6.39%
5-9	4.23%	3.80%	6.46%
10-14	7.05%	6.72%	7.31%
15-19	6.49%	5.70%	6.07%
20-24	2.40%	2.28%	4.41%
25-34	5.43%	3.80%	12.27%
35-44	12.48%	13.18%	15.02%
45-54	17.14%	18.00%	10.93%
55-64	13.19%	15.34%	10.66%
65-74	15.23%	17.11%	12.27%
75+	11.28%	10.65%	8.21%
Refused	1.76%	0.89%	--

**Table IV-3
Licensed Drivers by Persons**

License Status	Recruited Percentage (n=1418)	Completed Percentage (n=789)	Census Data
Licensed	77.93%	80.61%	--
Non-Licensed	7.12%	6.34%	--
Not Applicable (under 15 years of age)	14.88%	13.05%	--
Refused	0.07%	0.00%	--

**Table IV-4
Employment Status by Persons 16 and older**

Employment Status	Recruited Percentage (n=1183)	Completed Percentage (n=673)	Census Data (n=48,450)
Employed	43.87%	43.24%	47.55%
Unemployed	12.17%	11.59%	5.51%
Not in Labor Force	43.79%	44.87%	46.94%
Refused	0.17%	0.30%	--

**Table IV-5
Telecommute Status by Employed Persons**

Telecommute to Work?	Recruited Percentage (n=519)	Completed Percentage (n=291)	Census Data
Yes	9.44%	8.59%	--
No	90.56%	91.41%	--
Refused	0.00%	0.00%	--

**Table IV-6
Shift or Flexible Work Schedule by Employed Persons**

Shift or Flexible Work Schedule	Recruited Percentage (n=519)	Completed Percentage (n=291)	Census Data
Yes	37.57%	34.02%	--
No	18.88%	20.96%	--
Refused	43.55%	45.02%	--

**Table IV-7
Length of Employment by Employed Persons**

Length of Employment	Recruited Percentage (n=519)	Completed Percentage (n=291)	Census Data
Less than 1 year	13.87%	10.65%	--
1 - 1.9 years	6.36%	6.53%	--
2 - 2.9 years	6.94%	7.21%	--
3 - 3.9 years	5.39%	5.84%	--
4 - 4.9 years	4.05%	4.48%	--
5 or more years	57.80%	56.70%	--
Refused	5.59%	8.59%	--

**Table IV-8
Student Status by Full- or Part-Time Schedule
Persons 3 years and older**

Student Status	Recruited Percentage (n=1391)	Completed Percentage (n=777)	Census Data (n=60,190)
Not Enrolled	80.95%	82.63%	78.18%
Part-Time Student	1.94%	1.67%	21.82%
Full-Time Student	17.11%	15.70%	
Refused	0.00%	0.00%	--

**Table IV-9
Educational Attainment by Persons 25 years and older**

Educational Attainment	Recruited Percentage (n=1063)	Completed Percentage (n=619)	Census Data (n=27,491)
None through 4th Grade	0.38%	0.32%	
5th through 7th Grade	0.85%	0.32%	
8th Grade	1.50%	1.13%	-
9th through 11th Grade	6.77%	6.78%	-
12th Grade	38.57%	36.03%	-
College Freshman to Junior	29.73%	33.93%	-
College Senior	13.55%	13.25%	-
Post Graduate Work	6.58%	5.49%	-
Refused	2.07%	2.75%	--

**Table IV-10
Ethnicity by Person**

Ethnicity	Recruited Percentage (n=1418)	Completed Percentage (n=789)	Census Data (n=64,408)
White, Not Hispanic	96.40%	95.82%	94.26%
Black, Not Hispanic	0.21%	0.00%	0.16%
American Indian, Eskimo or Aleutian, Not Hispanic	0.92%	1.01%	1.56%
Asian or Pacific Islander, Not Hispanic	0.78%	1.01%	0.49%
Other Race, Not Hispanic	0.49%	0.89%	0.80%
Hispanic (Any Race)	0.99%	0.89%	2.73%
Refused	0.21%	0.38%	--

**Table IV-11
Disability Status of Persons 16 years and older**

Disability Status	Recruited Percentage (n=1183)	Completed Percentage (n=673)	Census Data (n=48,450)
With a mobility or self-care limitation	4.82%	5.35%	6.27%
Without a mobility or self-care limitation	95.18%	94.65%	93.73%
Refused	0.00%	0.00%	--

V Travel Characteristics

Respondents were asked to record all activities over a two-day period. In this report, activity data is reported for the 358 households in the Josephine County study. An average of 58.42 activities were reported by these households for the two-day period. As shown in Table V-1, the most frequently named activities are trips, meals, sleep, amusements (at home), personal hygiene, and household maintenance.

The mean number of activities per household for Day 1 is 29.60 and for Day 2 is 28.82. The relatively small difference between the number of activities reported for each day indicates that the two-day diary worked as planned.

While the diaries focused on respondent activities, information on person trips made in conjunction with those activities was also gathered. The mean number of person trips per household was 12.91 for the two-day period. The mean number of trips for Day 1 was 6.66, while an average of 6.25 trips were made per household on Day 2. The average daily trip rate by household size is shown in Table V-2.

The majority of zero-trip households and households with only one to nine trips had an average income of less than \$40,000. Households with incomes over \$40,000 had higher trip rates. These data are shown in Table V-3.

Table V-4 compares household size and trip rates. Smaller households generated fewer trips than larger households. For example, the majority of zero-trip households are households with less than three members, and there are no 70+ trip households with fewer than four members. This data is shown in Table V-4.

Respondents were asked to record mode usage for each trip taken. Of the 20,914 activities reported by respondents (shown in Table V-1), 16,286 took place at home or had no travel associated with them. For the remaining activities, the travel modes used in accessing the activities are shown in Table V-5.

Table V-6 shows average reported trip times by mode. Private vehicle trips were, on average, the shortest. Walking trips and bicycle trips were next, averaging about 21 and 23 minutes respectively. Trips recorded as "other", often out of the area, took the longest and were approximately 186 minutes in length. School bus trips were approximately 27 minutes long. Public bus trips lasted approximately 45 minutes.

**Table V-1
Activities by Type (n=20,914)**

Activity	Frequency	Percent
Trip	4628	22.13%
Meals	3361	16.07%
Sleep	3008	14.38%
Personal Hygiene	1571	7.51%
Work/Work-related activities	786	3.76%
Rest and Relaxation	668	3.19%
School	409	1.96%
Shopping	587	2.81%
Visiting	404	1.93%
Pick-up/Drop-off Passengers	249	1.19%
Household Obligations/Childrearing	169	0.81%
Exercise/Athletics	127	0.61%
Hobbies	210	1.00%
Tag-along	22	0.11%
Pet Care	104	0.50%
Amusements (at home)	2409	11.52%
Amusements (out of home)	118	0.56%
Religion/Civil Services	69	0.33%
Out of area	100	0.48%
Civic	72	0.34%

**Table V-1 (Continued)
Activities by Type (n=20,914)**

Activity	Frequency	Percent
Medical Care	89	0.43%
Personal Services	15	0.07%
Casual Entertaining	2	0.01%
Culture	2	0.01%
Household/Personal Business	476	2.28%
Professional Services	2	0.01%
Household Maintenance	1174	5.61%
Spectator at Athletic Events	12	0.06%
Incidental	24	0.11%
Wait on Plane	1	0.00%
Wait on Bus	38	0.18%
Formal Entertaining	8	0.04%

**Table V-2
Average 1-Day Household Trip Rate
by Household Size**

Household Size	Average Daily Trips
One	2.38
Two	5.34
Three	9.32
Four	14.41
Five	11.19
Six	39.50
Seven or more	20.50

**Table V-3
2-Day Household Trips by Household Income (n=358)**

Number of Trips		Income			Total
		Under \$40,000	Over \$40,000	Refused	
none	Count	31	8	2	41
	Row %	75.61%	19.51%	4.88%	100.00%
	Column %	14.62%	7.77%	4.65%	11.5%
1 to 9	Count	80	23	21	124
	Row %	64.52%	18.55%	16.93%	100.00%
	Column %	37.74%	22.33%	48.84%	34.6%
10 to 19	Count	64	38	12	114
	Row %	56.14%	33.33%	10.53%	100.00%
	Column %	30.19%	36.89%	27.90%	31.8%
20 to 29	Count	25	19	4	48
	Row %	52.08%	39.58%	8.34%	100.00%
	Column %	11.79%	18.45%	9.30%	13.4%
30 to 39	Count	7	9	2	18
	Row %	38.89%	50.00%	11.11%	100.00%
	Column %	3.30%	8.74%	4.65%	5.0%
40 to 49	Count	3	3	1	7
	Row %	42.86%	42.86%	14.28%	100.00%
	Column %	1.42%	2.91%	2.33%	2.0%
50 to 59	Count	0	1	0	1
	Row %	0.00%	100.00%	0.00%	100.00%
	Column %	0.00%	0.97%	0.00%	0.3%
60 to 69	Count	1	1	1	3
	Row %	33.33%	33.33%	33.34%	100.00%
	Column %	0.47%	0.97%	2.33%	0.8%
more than 70	Count	1	1	0	2
	Row %	50.00%	50.00%	0.00%	100.00%
	Column %	0.47%	0.97%	0.00%	0.6%
Total	Count	212	103	43	358
	Row %	59.22%	28.77%	12.01%	100.00%
	Column %	100.00%	100.00%	100.00%	100.00%

**Table V-4
2-Day Household Trips by Household Size (n=358)**

Number of Trips		HH Size							Total
		1	2	3	4	5	6	7+	
none	Count	14	23	2	1	1	0	0	41
	Row %	34.14%	56.10%	4.88%	2.44%	2.44%	0.00%	0.00%	100.00%
	Column %	17.28%	11.74%	5.71%	3.03%	12.50%	0.00%	0.00%	11.5%
1 to 9	Count	52	67	3	2	0	0	0	124
	Row %	41.94%	54.03%	2.42%	1.61%	0.00%	0.00%	0.00%	100.00%
	Column %	64.20%	34.18%	8.57%	6.06%	0.00%	0.00%	0.00%	34.6 %
10 to 19	Count	13	80	14	6	1	0	0	114
	Row %	11.40%	70.18%	12.28%	5.26%	0.88%	0.00%	0.00%	100.00%
	Column %	16.05%	40.82%	40.00%	18.18%	12.50%	0.00%	0.00%	31.8%
20 to 29	Count	2	20	12	10	4	0	0	48
	Row %	4.17%	41.67%	25.00%	20.83%	8.33%	0.00%	0.00%	100.00%
	Column %	2.47%	10.20%	34.29%	30.31%	50.00%	0.00%	0.00%	13.4%
30 to 39	Count	0	6	3	7	1	0	1	18
	Row %	0.00%	33.33%	16.67%	38.89%	5.56%	0.00%	5.55%	100.00%
	Column %	0.00%	3.06%	8.57%	21.21%	12.50%	0.00%	33.33%	5.0%
40 to 49	Count	0	0	1	4	1	0	1	7
	Row %	0.00%	0.00%	14.29%	57.14%	14.29%	0.00%	14.28%	100.00%
	Column %	0.00%	0.00%	2.86%	12.12%	12.50%	0.00%	33.33%	2.0%
50 to 59	Count	0	0	0	0	0	0	1	1
	Row %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
	Column %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	33.34%	0.3%
60 to 69	Count	0	0	0	2	0	1	0	3
	Row %	0.00%	0.00%	0.00%	66.67%	0.00%	33.33%	0.00%	100.00%
	Column %	0.00%	0.00%	0.00%	6.06%	0.00%	50.00%	0.00%	0.8%
more than 70	Count	0	0	0	1	0	1	0	2
	Row %	0.00%	0.00%	0.00%	50.00%	0.00%	50.00%	0.00%	100.00%
	Column %	0.00%	0.00%	0.00%	3.03%	0.00%	50.00%	0.00%	0.84%
Total	Count	81	196	35	33	8	2	3	358
	Row %	22.62%	54.75%	9.78%	9.22%	2.23%	0.56%	0.84%	100.00%
	Column %	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

**Table V-5
Trip Mode (n=4628)**

Mode	Percent
Private Vehicle	90.19%
Walk	6.18%
Bicycle	0.73%
School Bus	2.57%
Public Bus	0.07%
Other	0.26%

**Table V-6
Average “Reported” Household Trip Times by Mode (n=4628)**

Mode	Mean Trip Length (min.)
Private Vehicle	17.67
Walk	20.55
Bicycle	23.00
School Bus	27.48
Public Bus	45.00
Other (Airplane)	186.25

VI Item Non-Response

The following tables show the item non-response for questions contained on the recruitment instrument. The non-response rate is the percentage of respondents who did not provide an answer to the item. As indicated in the tables below, all efforts were to minimize non-response.

**Table VI-1
Percent Item Non-Response - Household Questions (n=592)**

Household Variables	Percent Non-Response
Household Size	0.0%
Household Vehicles	0.0%
Home Ownership	1.0%
Time in Residence	67.1%
Dwelling Type	0.3%
Household Income	16.7%

**Table VI-2
Percent Item Non-Response - Person Questions (n=1418)**

Household Variables	Percent Non-Response
Relation to Head of House	0.0%
Age	1.8%
Race	0.2%
Drivers License Status	0.1%
Employment Status	0.2%
Occupation	1.8%
Industry	0.9%
Shiftwork	43.5%
Years at Work Site	5.6%
Student Status	0.0%
Student Level - Head of House	0.0%
Student Level - Others	1.6%
Disability	0.0%