

ICPSR 3595

Nationwide Personal Transportation Survey, 1995: [United States]

United States Department of Transportation. Federal Highway Administration

First ICPSR Version November 2004

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Data Collection Description

Principal Investigator(s): United States Department of Transportation. Federal Highway

Administration

Title: Nationwide Personal Transportation Survey, 1995: [United States]

ICPSR Study Number: 3595

Funding Agency: Federal Highway Administration (FHWA), Bureau of Transportation

Statistics (BTS), Federal Transit Administration (FTA), National

Highway Traffic Safety Administration (NHTSA)

Summary:

The Nationwide Personal Transportation Survey serves as the nation's inventory of daily personal travel. It collects data on daily trips including purpose of the trip, means of transportation used, travel time, vehicle occupancy, driver characteristics, and vehicle attributes. These data are collected for all personal trips, all modes and purposes, all trip lengths, all areas of the country, all days of the week, and all months of the year. Part 1, the Household File, contains data on the relationship between household members and demographic information for household members. The file also contains information on housing characteristics, as well as characteristics of the block group and census tract. Availability and distance to public transportation are also included. Part 2, the Person File, contains information on seat belt use, modes of transportation used for travel to work, and costs for parking. Part 3, the Vehicle File, contains data relating to each of the household's vehicles, including whether a particular household member usually drives the vehicle, when it was purchased, the vehicle type, and model year. Part 4, the Travel Day Trip File, contains data about each trip the person made on the household's randomly assigned travel day. Information was collected on the purpose of the trip, the number of trips within the trip chain, where the trip chain started, and the amount of time spent at each destination. Part 5, the Segmented Travel Day Trip File, contains data for up to four segments of each segmented travel day trip the person made on the travel day. The file contains information on the start time, mode of transportation used, purpose, and duration of each travel segment. Part 6, the Travel Period File, contains data for every trip of at least 75 miles one way that the person took during a 14-day period ending on the travel day. The file contains information on the start date, purpose, and transportation mode used for trip. New for the 1995 survey was a written diary, used to help respondents to better remember their travel on their designated travel day, and a household roster of trips, which was used to assist respondents in recalling trips made with other household members. New questions included satisfaction with the nation's transportation system, reactions to mobility and congestion, perceived difficulties in travel, and use of seat belts.

Universe: Civilian, noninstitutionalized population of the United States living in

households with telephones.

Sample: The target sample size of 42,015 includes a representative national

sample of all United States households with telephones (21,120) and additional households in the planning areas of two states and three local transportation planning organizations (20,895). Additionally, the

sample was stratified by 70 geographic units.

Date of Collection: May 1995-July 1996

Time Period: 1995-1996

Data Collection Notes: (1) Although data were collected in 1995 and 1996, the study title is

Nationwide Personal Transportation Survey, 1995. (2) According to the codebook, there are 176 variables in the Person File, but the Person File contains 177 variables. (3) The user guide is provided by the principal investigator as a Portable Document Format (PDF) file. The PDF file format was developed by Adobe Systems Incorporated and can be accessed using PDF reader software, such as the Adobe Acrobat Reader. Information on how to obtain a copy of the Acrobat

Reader is provided on the ICPSR Web site.

Data Source: telephone interviews

Extent of Collection: 6 data files + machine-readable documentation (PDF) + SAS data

definition statements + SPSS data definition statements

Extent of Processing: CONCHK.PR/ DDEF.ICPSR/ REFORM.DATA

Data Format: Logical Record Length with SAS and SPSS data definition statements

File Specifications

| Part No. | Part Name | File Structure | Case Count | Variable Count | LRECL | Records Per Case |
|-------------|--------------------------------|----------------|---------------|-------------------|-------|---------------------|
| 1 | Household File | rectangular | 42,033 | 182 | 539 | 1 |
| 2 | Person File | rectangular | 95,360 | 177 | 417 | 1 |
| 3 | Vehicle File | rectangular | 75,217 | 55 | 203 | 1 |
| 4 | Travel Day Trip File | rectangular | 409,025 | 104 | 267 | 1 |
| 5 | Segmented Travel Day Trip File | rectangular | 3779 | 48 | 146 | 1 |
| 6 | Travel Period File | rectangular | 29,647 | 48 | 139 | 1 |

ICPSR PROCESSING NOTE FOR STUDY 3595

Users should be aware that the column locations in the original documentation provided by the primary investigator are no longer applicable.

USER'S GUIDE FOR THE PUBLIC USE DATA FILES

1995 NATIONWIDE PERSONAL TRANSPORTATION SURVEY

October 1997

Research Triangle Institute Research Triangle Park, North Carolina

Federal Highway Administration
United States Department of Transportation

Publication No. FHWA-PL-98-002 HPM-40/10-97 (2M)

1995 NPTS USER'S GUIDE

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CHAPTER I - INTRODUCTION

1995 NPTS

This User's Guide provides details of the 1995 Nationwide Personal Transportation Survey (NPTS). It provides information to assist transportation planners and others who need comprehensive data on travel and transportation patterns in the United States. The 1995 NPTS updates information gathered in similar studies in 1969, 1977, 1983, and 1990.

DATA FILES

Publicly available data files containing data from the 1995 study have the following general features:

- it is a microdata data set, which contains the record of each interview (with information deleted that would identify the specific person or household),
- the data are arranged in six hierarchical files to facilitate analysis, and
- the data are available in the Statistical Analysis System (SAS), standard ASCII, and DBF format.

USER'S GUIDE

This guide includes descriptions of the survey procedures and methodology used for the 1995 NPTS, the questionnaire, the public use data files, and the weighting procedures for 1995 NPTS data. Appendices provide sample tables, SAS Proc Contents Listings, data file code books, glossary of NPTS terms, a copy of the 1995 NPTS questionnaire, discussion of estimating sampling errors, and additional background information.

1-A. SURVEY SPONSORS

Research Triangle Institute (RTI) conducted the 1995 NPTS under the sponsorship of four agencies of the U.S. Department of Transportation:

Federal Highway Administration (FHWA) Bureau of Transportation Statistics (BTS) Federal Transit Administration (FTA) FHWA has the lead role in coordinating the survey.

1-B. PURPOSE OF THE SURVEY

DATA COLLECTED

The NPTS serves as the nation's inventory of daily personal travel. It is the only authoritative source of national data on the daily trips including, but not limited to:

- purpose of the trip (work, shopping, etc.)
- means of transportation used (car, bus, subway, walk, etc.)
- how long the trip took , i.e., travel time
- time of day the trip took place
- day of week the trip took place, and, if a private vehicle trip:
- number of people in the vehicle , i.e., vehicle occupancy
- driver characteristics (age, sex, worker status, education level, etc.)
- vehicle attributes (make, model, model year, amount of miles driven in a year).

These data are collected for:

- all trips,
- all modes,
- all purposes,
- all trip lengths, and
- all areas of the country, urban and rural.

USES OF NPTS

NPTS data are used to:

- quantify travel behavior
- analyze changes in travel trends over time
- relate travel behavior to the demographics of the traveller
- look at the relationship of demographics and travel over time
- look at the relationship of travel and land use

The NPTS data are used primarily for gaining a better understanding of travel behavior. The data are used to enable DOT officials to assess program initiatives, review programs and policies, and plan for the future.

The NPTS is a tool in the urban transportation planning process; it provides data on personal travel behavior, trends in travel over time, trip generation rates, national data to use as a benchmark in reviewing local data, and data for various other planning and modeling applications.

The transportation research community, including academics, consultants and government, use the NPTS extensively to examine:

- Travel behavior at the individual and household level
- The characteristics of travel, such as trip chaining, use of the various modes, amount and purpose of travel by time of day & day of week, vehicle occupancy, and a host of other attributes
- The relationship between demographics and travel, e.g. the 1990 NPTS showed increases in personal mobility among women, older Americans, youth, and to some degree, low-income households
- The public's perceptions of the transportation system

People in various fields use the NPTS data to connect the role of transportation with other aspects of our lives. Medical researchers use the data to determine accident exposure rates of school-age children, particularly when they are travelling on their own by walking or biking. Social service agencies need to know more about how low-income households currently travel, which has taken on heightened importance with the employment initiatives for unemployed portion of the welfare population.

1- C. COVERAGE AND SCOPE

COVERAGE-WHO

The NPTS is a survey of the civilian, non-institutionalized population of the United States. As such, it does not include:

- military personnel living on base or overseas, OR
- residents of group quarters, such as nursing homes or assisted-living facilities, college dormitories, longterm medical institutions, and prisons.

Military personnel are included if they live in civilian housing. College students are included if they live in apartments or other off-campus housing, or if they live at home for the summer.

WHEN

The 1995 NPTS was conducted over a period from May 1995 to July 1996. Travel data were collected for all seven days of the week, including all holidays.

WHERE

All trips by U. S. residents were recorded, including those where the destination was a foreign country.

SCOPE-WHAT THE NPTS INCLUDES -

The 1995 NPTS data set includes:

- Household data on relationship of household members, education level, income categories, housing characteristics, and other demographic information.
- Motor vehicle information including year, make, model, and odometer readings, converted to annual estimates.
- Information on the availability of public transportation.
- Data about drivers, including information on travel as part of work.
- Data about one-way trips taken during a designated 24-hour period (the household's travel day) including the time the trip began, length of trip, composition of the travel party, mode of transportation, purpose of the trip, and specific vehicle used (if a household vehicle).
- Data describing round-trips taken during a 14-day period (the household's travel period) where the farthest point of the trip was at least 75 miles from home, including the destination, mode, and purpose.

- Information to describe characteristics of the geographic area in which the sample household and workplace of sample persons are located.
- Data on telecommuting.
- Data on people who use transit occasionally.
- Public perceptions of the transportation system.
- Reasons for not car-pooling or using public transit for the work trip.
- Incidence of seat belt use, and reasons people don't always wear seat belts.

WHAT IS NOT INCLUDED IN THE NPTS

In the past there have been many requests for data that are closely related to the NPTS, but are not available in the NPTS. Examples of the most common requests for data that are NOT included in NPTS are:

- Information on costs of travel (other than parking costs at work).
- Information about specific travel routes or types of roads used.
- How travel of the sampled household changes over time. Note: The NPTS is a cross-sectional survey, which means that different households are selected for the sample each time it is conducted. The NPTS is not currently a longitudinal survey, which would involve tracking the same sample households over time.
- Information that would identify the exact household or workplace location.
- Travel by household members under the age of 5
 when they travel with non-household members, e.g.,
 a day care provider takes your child to the park,
 another parent takes your child to their house.
- Information on the fuel economy of vehicles, i.e., miles per gallon or MPG. However, the NPTS vehicle file includes the vehicle make, model and model year, which would allow linking the NPTS with another source of MPG.
- The traveller's reason for selecting a specific mode of travel over another mode

1-D. COMPARABILITY WITH EARLIER NPTS DATA

1969 NPTS

The original Nationwide Personal Transportation Survey (NPTS) was conducted from 1969 to 1970 by the U.S. Bureau of the Census, who collected the survey data for the Federal Highway Administration (FHWA) of the U.S. Department of Transportation. That first NPTS survey was based on a multi-state probability sample of housing units located in 235 sample areas, which included 485 counties and independent cities representing every state of the U.S. and the District of Columbia. Experienced Census Bureau field staff conducted personal interviews in some 15,000 households, obtaining transportation-related information for all occupants.

Sections of that initial questionnaire provided information including:

- automobile record (ownership, whether an automobile was purchased new or used, and annual miles driven)
- proximity to public transportation and shopping
- travel to work
- driver information, such as estimated annual miles driven by licensed drivers
- travel to school
- all one-way trips by motor vehicle or some form of public transportation during the previous 24 hours (referred to as the travel day)
- record of all trips lasting one or more nights during the seven days that ended the day before the preassigned travel day.

1977 NPTS

During the 1977 NPTS, an update of the 1969 nationwide survey, the data were again collected from households in a national sample of area segments, with basically the same sampling, collection, and processing procedures as the 1969 version. The Census Bureau collected the data from approximately 18,000

households nationwide. The 1977 survey questionnaires were expanded considerably and updated to better address then-current issues, and the survey procedures were modified to upgrade the effort.

One of the major differences between the 1969 and the 1977 surveys was the extension of vehicle coverage to all motor vehicles owned by a sample household. While the 1969 survey included only automobiles as part of the vehicle record, the 1977 survey also included personal trucks and vans, camper vehicles, motorcycles, and mopeds.

1983 NPTS

When the 1983 NPTS was conducted between February 1983 and January 1984 the Census Bureau again collected survey data by using face-to-face interviews in an area probability sample of nearly 6,500 households. Additional, information was obtained about the use of safety devices in household vehicles including seatbelt usage: when, how often, under what conditions; and information about child safety topics such as type of safety seat used and its position in the vehicle, internal harnesses in use, and injuries sustained from an emergency stop when a child was not using a child safety seat or other safety device.

1990 NPTS

Research Triangle Institute (RTI) conducted the 1990 NPTS using a computer-assisted telephone interviewing (CATI) technology. This was a significant change from the in-home interview methodology previously used for the NPTS. The national sample consisted of 18,000 households. One state and two Metropolitan Planning Organizations purchased additional interviews in their areas, increasing the total sample to more than 22,000 households.

Other methodology changes in 1990 were:

- the use of the random-digit dialing (RDD) sampling procedures,
- greater utilization of proxy respondents, and
- an increase in the allowable window for interviewing

sampled persons about their travel from four to six days.

The 1990 NPTS included new questions about vehicle accidents that members of the household had experienced and the highway types used for selected vehicle trips on the household's travel day. The core data components, however, were comparable to previous surveys in the series.

The 1990 NPTS features which were the same as in previous NPTS surveys included the:

- definitions of eligible persons, trip purposes, and modes of transportation,
- concepts of a travel-day section for all trips taken on the travel day and a travel period section for reporting long trips taken during a 14-day period, and
- core information collected for sample households, persons, vehicles, drivers, travel period, and travel day trips. For each travel day trip, information was collected regarding the trip purpose, mode, distance, time taken, and accompanying persons, as it was during earlier surveys.

1995 METHODS STUDIED

Prior to the 1995 NPTS pretest, the following methodology issues, which might improve the survey results or strengthen analysis capability, were studied:

- Methods to obtain more complete trip reporting
- Alternate definitions of a completed household interview
- Use of proxy respondents
- Obtaining data on trip chaining
- Enhanced geographic coding of household and work locations
- Expanded on-line editing during the interviews
- Vehicle odometer readings to obtain more accurate miles traveled (VMT) estimates.

1995 PRETEST

In preparation for the 1995 NPTS, a large methodological pretest was conducted from November 1994 through January 1995 to identify problems with new questions, determine the average interview time, and test the data collection procedures. A methodological experiment was embedded within the pretest sample in order to test three different survey methods: recall, memory jogger, and travel diary. The major pretest result was the indication that the use of travel diaries would lead to more complete NPTS trip reporting, and FHWA decided to utilize a one-day trip diary in the 1995 NPTS.

Other pretest results included the following:

- Practicality of mailing advance letters to selected households
- Feasibility of collecting more detailed information about the household location
- Feasibility of collecting paired odometer readings for the sample vehicles
- Advantage of using a household roster of trips to reduce respondent burden and increase trip recall

The household roster of trips allowed the CATI interviewer to skip trip detail for a specific respondent if information about that trip had already been reported by another household member.

Mailing advance letters informed the sample households of their selection for the 1995 NTPS, legitimized the survey and presented it in the larger context, and notified them that an interviewer would telephone their household to interview the members.

1995 NEW CONTENT

The 1995 NPTS included new questions to:

- Measure the public's perceptions of, or satisfaction with, the nation's transportation system
- Determine respondents usual modes of travel
- Elicit their reactions to statements about mobility and congestion
- Identify perceived difficulties in travel
- Collect information on the use of seat belts

- Describe the household's location, type of structure, and tenure
- Improve trip purpose coding

1-E. TYPICAL NPTS HOUSEHOLD

To illustrate key NPTS concepts, an example may be helpful. We introduce at this point a hypothetical sample household consisting of the following four persons:

Typical NPTS Household:

Terry and Keith live in a metropolitan area with their two children Lucy and Ben. When Keith picked up their mail in early October, 1995, he read the letter from Rodney Slater, the Administrator of the Federal Highway Administration, advising that their home telephone number had been selected in the sample for the Nationwide Personal Transportation Survey, and that they would be receiving a telephone call from an interviewer at Research Triangle Institute.

We will refer back to this typical NPTS household from time to time in later sections of this User's Guide, to illustrate aspects of the NPTS survey procedures or methodology.

CHAPTER 2. SURVEY CONTENT AND INTERVIEWS

2-A. INTERVIEW PROCESS

OVERVIEW

An understanding of the data collection for the NPTS is essential to the proper use and interpretation of the data. FHWA staff and other survey sponsors occasionally monitored the data collection interviews from the Telephone Survey Unit at Research Triangle Institute. Everyone who had the experience of monitoring the interviews came away with a better understanding of the survey data.

For purposes of this User's Guide we have attempted to give the reader a better understanding of the interview process by using the Typical NPTS Household example. Basic background on the interview process, as contained in the next few sections, will aid the reader in understanding the Typical Household's involvement in the survey.

THREE PHASES

The NPTS data collection consists of three main phases:

Household Interview - collects information about the household, the household members, vehicles owned by or available to the household, and to obtain the mailing address for the travel diaries. It is conducted once per household.

Person Interview - collects the travel day data, the long trip (travel period) data, information about worker status and the typical trip to work, baseline data on occasional use of transit and occasional working from home, and customer satisfaction with the transportation system. A person interview is attempted for each household member 5 years and older, with an adult reporting the travel of those 5-13 years old. For the household to be included in the final data set, interviews had to be completed with at least half of the household adults (defined as persons 18 years and older)

Odometer Readings - are collected for each household vehicle at two points in time. The first is at or around the time of the person interviews. The second is 2-6 months later.

2-B. INTERVIEWS

HOUSEHOLD INTERVIEW

Once a sample telephone number was selected, an advance letter was sent to the household if a mailing address for that telephone number was available from computerized telephone directory services. After the advance letter mailing, an interviewer would call the number, ask some screening questions to determine that it was a household, and complete the household interview portion of the survey by interviewing one of the adult household members. The household interview questions are contained in Sections A through D of the CATI questionnaire (see **Appendix E.**) Exhibit 1 describes screening and interviewing in the sample household.

Exhibit 1- Household Screening and Interview Contents

| Data Collected | Information to determine whether the selected telephone number is a household and not a business, fax line, etc. Characteristics of the household members, vehicles, and address for mailing the travel diaries. |
|------------------|---|
| Who is contacted | Any household member who can respond (screening questions). A household member 18 years or older can answer the questions about household members and vehicles. |
| When collected | The first contact with the household can occur any time after the telephone number is placed in the sample. Follow-up contacts are scheduled as part of the data collection |
| Why collected | To insure the sampled number is a household, not group quarters, business, etc. To introduce the survey and obtain the household-level and address information. |

| Telephone screening contact (1 to 2 minutes) |
|---|
| 2. Household interview (8 to 10 minutes) |

AFTER THE HOUSEHOLD INTERVIEW

At the time the household interview was completed, the computer would assign a pre-selected travel day 12 to 18 days in the future. The travel diaries would be prepared and mailed to the household, along with odometer forms, a reminder to complete the diaries on the travel day, response incentive money (\$2.00 per person), and other instructions to the household. On the day before the household's travel day, an NPTS interviewer would call and briefly remind the person answering the telephone to ask the members to complete their travel diaries on the following day.

PERSON INTERVIEW

Attempts to complete the person interviews began on the day following the travel day, and generally continued (with a maximum limit of six days) until all person interviews had been completed for all household members 5 years of age and older. Proxy interviews would be conducted, for persons 5 to 13 years of age, by interviewing another household member 14 or older. Persons 14 and older would be interviewed individually as often as possible, with proxy interviews allowed with other household members when necessary. Exhibit 2 describes the person interview.

Exhibit 2 - Person Interview Content by Age of Household Member

| | Age 16 and older | Age 5 to 15 years |
|------------------|--|---|
| Data Collected | Customer satisfaction Driver information Education level Usual travel to work Travel day trip information Travel period trip information | Travel day trip information Travel period trip information |
| Who is contacted | Each household member 16 years and older | Each household member 14 and 15 years old, Proxy for those 5 to 13 years of age. |
| When collected | Within 6 days following travel day | Within 6 days following travel day |
| Why collected | To obtain the person-level data. The travel day trip information collectd in the person interview is considered the core NPTS data | To obtain the person-level data. The travel day trip information is considered the core NPTS data |
| How collected | Travel diaries mailed; Person interview by telephone (10 - 15 minutes) | Travel diaries mailed; Person interview by telephone (5 - 10 minutes) |

ODOMETER READINGS

The third portion of the NPTS survey involves collecting odometer readings two times for each of the household's vehicles. A form listing each vehicle and requesting the information was mailed with the travel diaries. The first odometer readings and the dates they were made were collected during the person interviews if possible. If the readings were not available, household members were asked to record the readings within a few days. Additional odometer reading call back attempts were made if the readings had not been obtained when person interviews were completed for the household, or when the six day interviewing window had

expired.

At least 2 months after the first odometer readings, another letter was mailed to the sample household. This letter also listed the vehicles and requested that another reading be taken and the date recorded on the form, for each of the vehicles.

Subsequently, NPTS interviewers called the households to collect the second odometer reading information. The exhibit that follows describes the odometer reading contacts.

Exhibit 3 - Contents of the Odometer Reading Contacts

| | First Odometer Reading | Second Odometer Reading |
|------------------|---|---|
| Data Collected | Date and odometer reading for each vehicle | Date and odometer reading for each vehicle |
| Who is contacted | Any household member who can provide the information | Any household member who can provide the information |
| When collected | During person interviews, or shortly after | From 2 to 6 months following the first readings |
| Why collected | Obtain better information on vehicle miles of travel | Obtain better information on vehicle miles of travel |
| How collected | Recording form mailed with travel diaries; results collected by phone | Recording form sent in separate mailing; results collected by phone |

2-C. NPTS CORE DATA

There is a group of data that is considered "core" NPTS data, and it is largely composed of the items that have been collected in all five NPTSs to date. It is very likely that this core data will be included in future NPTS efforts. The data items that are considered core and their item number on the 1995 NPTS questionnaire are:

HOUSEHOLD LEVEL FOR EACH HOUSEHOLD:

Household size - item D.1

Household composition - derived from items D.1-D.4, D.7-D.8

Number of vehicles - item B.1

Race & Hispanic status of household respondent - items D.5-D.6 Household location - items D.17-D.18, J.1-J.2, plus information

from the sample frame

Income - Sections K and I

Availability of public transportation - items C.1 - C.5

PERSON LEVEL FOR EACH HOUSEHOLD MEMBER:

Age - item D.3

Sex -item D.4

Education level - item F.1

Worker status- items D.12 and F.2

If worker - typical work trip- items F.5-F.9

Driver status - items D.11 and E.6

If driver- annual miles driven - item E.8

If driver- drive as part of work - items G.3-G.8

VEHICLE LEVEL FOR EACH HOUSEHOLD VEHICLE:

VEL Make - item B.2

Model - item B.2

Model year - item B.2

Purchased new or used - item B.6 Annual miles driven - item B.7

Primary driver - item D.15

TRAVEL DAY

FOR EACH TRIP EACH HOUSEHOLD MEMBER 5 YEARS AND

OLDER TOOK ON THE HOUSEHOLD'S ASSIGNED TRAVEL

DAY:

Time trip began - item G.17
Trip purpose - item G.20

Distance to destination - G.22

Time trip took - G.27

Means of transportation - item G.25

If private vehicle trip, was household vehicle used - item G.23

If household vehicle used, which vehicle - item G.24

If private vehicle trip, did a household member drive - G.37 If household member drove, which one - item G.38 Any other household members on trip - item G.35 If household members, which ones - item G.36 Any non-household members in trip- item G.39 If non-household members on trip, how many - item G.40

The answers to this series of core questions about each trip taken by the members of the household on their travel day provide the most sought after and most used data from NPTS and all other household travel surveys.

TRAVEL PERIOD

FOR EACH TRIP OF 75 MILES OR MORE (ONE-WAY) TAKEN IN THE TWO WEEK PERIOD ENDING ON, AND INCLUDING,

TRAVEL DAY:

Trip purpose - item H.6

Means of transportation - item H.8

Destination - item H.2

SEGMENTED TRIPS

FOR EACH PORTION OF A TRIP TAKEN BY PUBLIC TRANSIT

OR AMTRAK:

Means of transportation - item G.28

Travel time - G. 30

2-D. SURVEY CONTENT CHANGES IN 1995

The core questions in the 1995 survey remained the same as in previous NPTS surveys. However, a number of content changes were made in the 1995 NPTS, as described in this section.

ODOMETER READINGS

Two odometer readings and the associated date of the readings, planned to be taken two to six months apart, were attempted for each household vehicle. A model to estimate annual miles driven from these two readings and other information was developed. The odometer readings were collected and annualized to produce a separate estimate of vehicle miles of travel (VMT), in addition to the owner's estimate and the summation of travel day trips made

in that vehicle.

CENSUS TRACT AND BLOCK GROUP CHARACTERISTICS

The first three NPTS surveys were conducted by the U.S. Census Bureau using an area household sample in 1969, 1977 and 1983. However, because the Census Bureau had conducted the survey, there were very strict confidentiality requirements and the neither the address nor the Census tract could be identified outside the Bureau. For the 1990 NPTS FHWA chose not to collect address information. It was not necessary to do so because the survey was conducted totally by phone with no diary mailings.

Home and work addresses were collected in the 1995 NPTS. The purpose of collecting the addresses in 1995 was to mail the travel diaries, and also to add additional geographic detail to the data files. However, addresses are not part of the dataset. Appending a series of characteristics of the area of the residence and workplace locations to the data files will allow analyses of the land use-transportation connection, and may also facilitate the potential creation of synthetic travel survey data for states or metropolitan areas.

CUSTOMER SATISFAC-TION QUESTIONS

For the first time in the NPTS series, the 1995 survey contained questions on the public's opinion of transportation services and systems. The data user can analyze these attitudes in the context of how much the respondent travels, which modes are used, vehicle ownership, income, and so forth. It is anticipated that customer satisfaction questions will continue to be incorporated in future NPTS work.

SEAT BELT

Questions were included on how often people use seat belts. For those using seat belts some or most of the time, additional questions were asked on the reasons for not using them all of the time. This will benefit safety analysis of seat belt use, and provide a thorough catalog of reasons people do not always use seat belts.

TRIP PURPOSES

In an effort to better understand travel, more detailed trip purpose data were collected. New trip purpose categories in the 1995 NPTS are:

- return to work
- take someone somewhere
- pick up someone
- out to eat
- return home.

The collection of trip purposes changed from a descriptive format (e.g., what best describes your reason for making this trip) to a FROM-TO format (e.g., a trip from "other family and personal business" to "home"). This is a more objective and more straightforward way to collect the data. This approach also allows for an improved analysis of trip chaining.

See **Appendix M** for a more detailed explanation of trip purpose coding and the trip purpose variables on the 1995 NPTS dataset.

2-E. TYPICAL NPTS HOUSEHOLD

HOUSEHOLD INTERVIEW

At this point, we continue the example of the hypothetical household mentioned in Section E of Chapter 1. Here we describe their interactions with the 1995 NPTS project, by walking through the types of information collected.

First, an interviewer called and spoke with Terry; the household was screened to verify that it was a legitimate household sample and the household interview was conducted. In this example case, only one call was required to both screen, and complete the household interview.

Household Interview - Terry gave the household interview on October 15, 1995 and she is termed the Household respondent

- the '89 Camry was driven 14,000 miles in the past year
- the Ford Contour was driven 11,000 miles in the past year
- there is a bus stop one block from the townhouse they own
- there is a subway, but the nearest stop is about 2 miles away
- Terry is 37 years old, a female, an African-American. She is employed and is the primary driver of the Ford Contour.
- Keith is 39, a male, the husband of Terry, employed, and the primary driver of the Toyota Camry.
- Lucy is 16, female, and has begun driving.
- Ben is 10 years old, male.
- their mailing address is 2370 SW Fifth Street, Anytown, Anystate

(Note that the mailing address is used to send the diaries. It is not kept on the datafile.)

AFTER HOUSEHOLD INTERVIEW

At the end of the household interview, the interviewer told Terry that the computer had selected October 29, 1995 as the random travel day for the household and asked that each family member keep a diary with key information about their travel on that day. The diaries were prepared and mailed to the household on October 22, along with instructions, \$8.00 in incentives, the odometer reading form, and a reminder that their travel day was October 29.

PERSON INTERVIEW

On November 1, after several no-answer calls, an interviewer reached Terry at home and completed her person-level interview.

Person Interview with Terry - about 2 weeks after the Household Interview

- highway congestion is not a problem for her
- rough pavement on the highways is a small problem for her
- she has used public transportation three times in the past two months
- she is a driver and always wears her seat belts when in a private vehicle
- she drove about 12,500 miles in the past year
- she has completed some college, but does not have a Bachelor's degree
- she works full time--her workplace is at
 123 Frontage Road, which is 9 miles from her home
- she usually leaves home at 7:45 AM to go to work--the trip usually takes 20 minutes one-way and she drives alone in the Contour
- she does not pay to park at work
- she never works at home in place of going to her workplace

Person Interview continues with Terry's Travel Day

Inventory of Terry's trips on the travel day, October 29:

7:45 am - to work

12:30 pm - to lunch

1:20 pm - return to work

5:15 pm - leave work

5:35 pm - stop at bank

5:45 pm- return home

7:25 pm - walk the dogs,

with Keith

Detailed information collected on sample trip to lunch:

started at 12:30 pm

from work to eat out

walked 3 blocks to

restaurant,

took 10 minutes

was with two coworkers

Detailed information collected on sample trip to the Bank started at 5:15 pm

from work to other family & personal business trip was 8 miles, it took 20 minutes she drove alone in the Contour.

TRAVEL PERIOD

Terry has not made any trips of 75 miles or more one-way in the two week period ending on Travel Day

Additional information gathered from Terry at the end of her person interview

- they have one phone number for their household
- their annual household income is in the \$35,000-\$40,000 range

Interviewer asked for the odometer readings but they were not available. Terry agreed to make the readings and the interviewer said she would call back to record them.

FIRST ODOMETER READINGS

The same interviewer called again on November 3 and completed the odometer readings and the date they were taken for both vehicles.

Callback for odometer reading two days after Terry's person interview

- Contour is 14,355, Camry is 73,940
- both readings were recorded on November 2, 1995

SECOND ODOMETER READINGS

Around February 1, Terry received a letter from RTI asking that another recording be made of the odometer readings of the two vehicles. Keith completed the form and placed it by the telephone. On February 20, another interviewer called for the readings. Lucy was the only person home at the time; she found the completed form by the phone and gave the information to the interviewer.

Callback for second odometer reading three months later

- -Contour has 17,923, Camry has 78,125
- -both readings were recorded on February 5,1996.

CHAPTER 3 - SURVEY PROCEDURES AND METHODOLOGY

3-A. OVERVIEW

WHO IS INCLUDED

The NPTS collected travel data from the civilian, noninstitutionalized population of the United States. People living in college dormitories, nursing homes, other medical institutions, prisons, and on military bases were excluded from the sample.

There are a total of 42,033 households on the final 1995 NPTS dataset. Approximately half of the households are in the "national sample" and the other half represent the add-on areas of:

New York State Commonwealth of Massachusetts Oklahoma City, Oklahoma Tulsa, Oklahoma, and Seattle, Washington.

These areas purchased larger samples to support their planning needs. Interview data from all 42,033 households are included on the public use data file. For areas that conducted add-on surveys, the weights were adjusted downward so their inclusion does not skew the national estimates.

All household members age 5 or older were eligible to be interviewed. For children ages 5 through 13, an adult member of the household reported for them.

HOW THE DATA ARE COLLECTED

The NPTS was conducted as a telephone survey, using Computer-Assisted Telephone Interviewing (CATI) technology. The sample was a list-assisted telephone number sample.

Each household in the sample was assigned a specific 24-hour "Travel Day" and a 14-day "Travel Period" for which detailed data on all travel were collected.

The households were contacted by an advance letter, followed by a telephone contact. After the first telephone interview, the household interview, travel diaries were mailed to the household so that each household member could record their travel on the assigned Travel Day.

Residents of the sampled households were contacted by telephone as soon as possible after Travel Day to record their travel. A six-day window was established to obtain the travel day data.

Odometer readings from each household vehicle were also collected by telephone contacts at two points in time.

WHEN THE DATA ARE COLLECTED

The NPTS interviews were conducted from May 1995 through June 1996.

The survey is conducted over a 12-month period so that seasonal variations in travel are represented. The 1995 NPTS took 14 months, rather than 12, because the number of interviewers working on the project varied throughout the year. The weighting adjusts for the monthly differences in number of interviews.

Travel days were assigned to all seven days of the week, including holidays. The intent is to represent travel across an entire year.

GEOGRAPHIC COVERAGE

Interviews were conducted with households in all 50 States and the District of Columbia. A new sample of telephone numbers located throughout the United States was used every quarter to insure that all geographic areas were represented in all seasons.

The following section contains more information on the add-on areas.

3-B. SAMPLE DESIGN AND SELECTION

OVERVIEW

The 1995 NPTS sample was designed as a list-assisted telephone number sample. The sample design yields a representative national sample of all U.S. telephone households.

The national sample was increased within the planning areas of two States and three local transportation planning organizations, who purchased additional samples to provide data for their planning efforts. These areas are referred to as "add-ons".

The sampling frame was designed to cover all U.S. telephone households, both listed and unlisted. The sample was stratified by:

- geography (Census divisions),
- metropolitan area size,
- presence of subway/elevated rail transit systems, and
- two levels of telephone number density (low and high).

The target sample size for the 1995 NPTS included the:

- national sample of 21,120 completed households, and
- 20,895 additional households within the five add-on areas.

for a total planned sample size of 42,015 completed households.

See **Chapter 5-D** for a table showing the national and add-on components of the NPTS sample.

SAMPLING FRAME

The sampling frame was constructed using information listing all valid residential NPA/NXX (area code/telephone exchange) codes associated with the fifty states and the District of Columbia, obtained from Bell Communications Research (Bellcore). The sampling frame, which excluded some NPA/NXX codes used exclusively for nonresidential purposes, was created in February 1995 and updated in June and September, 1995 and in January, 1996.

The sampling frame also utilized counts of listed telephone numbers for each group of 100 consecutive number (100-block) within the NPA/NXX codes. This information on telephone number listings was developed by Donelly Marketing Systems and obtained from Nielsen Media Research (Nielsen).

STRATIFYING THE SAMPLE

To control sampling variation and increase coverage of transit trips, the sampling frame was stratified by:

- geography (Census division)
- metropolitan area status
- the presence of subway or elevated rail systems, and
- the density of listed telephone numbers.

Prior to stratification, each NPA/NXX code was assigned to the county (or county-equivalent) expected to contain the majority of its telephone households.

First, each block of 100 telephone numbers was assigned to one of the nine Census divisions, based on its county assignment. Within the nine Census divisions, counties were classified first by metropolitan area size, as follows:

- in a consolidated metropolitan statistical area (CMSA) or metropolitan statistical area (MSA) of 1,250,000 population,
 - 2) in a CMSA or MSA of less than 1,250,000 population, or
 - 3) not in an MSA.

Next, the counties were stratified according to the presence or absence of subway/elevated rail transit systems.

Special add-on strata were defined within the:

- State of New York,
- Commonwealth of Massachusetts
- Oklahoma City, Oklahoma planning area,
- Tulsa, Oklahoma planning area, and
- Puget Sound, Washington planning area.

These strata were needed to control allocation of the additional sample to subareas within New York and Massachusetts, as well as to effect the over-sampling necessary to obtain the desired sample size in each add-on area. A total of 70 major strata were defined, based on the stratification variables mentioned above.

Finally, within the 70 major strata, each 100-block was assigned to one of two density substrata:

- 1) low density those 100-blocks containing zero residential listings, or
- 2) high density those 100-blocks containing one or more residential listings.

Low density substrata were retained because they contain newly assigned telephone numbers and unlisted numbers.

SAMPLE ALLOCATION AND SELECTION

The sample size was allocated to the major strata in proportion to estimates of the total number of households, except for:

- 25 percent over-sampling in 11 large metropolitan areas with subway/elevated rail systems, designed to increase the number of transit trips in the sample, and
- additional over-sampling to obtain the increased sample

sizes contracted for in the add-on areas.

Due to the large add-on sample increases in New York and Massachusetts, the New York City and Boston metropolitan areas were over-sampled more than 25 percent.

The sample allocated to each major stratum was further allocated to the high- and low-density substrata within them. The high density substrata were sampled at a rate three times more heavily than the low density strata, in order to offset the higher costs of identifying and completing interviews within the low density strata.

The sample of telephone numbers allocated to substrata were then selected randomly with equal probabilities within substrata.

3-C. DATA COLLECTION PROCEDURES

OVERVIEW

The 1995 NPTS interviews were completed by the staff of RTI's Telephone Survey Unit. Each interviewer was thoroughly trained before beginning work on the survey.

A number of quality control measures were implemented during the data collection. Supervisors were present to observe interviewing and assist with problem cases at all times during interviewing. Numerous real-time edits were performed by the CATI system during the interview process. In addition, monitoring of interviews in progress was conducted by supervisors, NPTS project staff, and others throughout the data collection period. Periodic meetings were held with groups of interviewers to discuss issues in conducting the interviews and to document suggestions for resolving issues.

ADVANCE LETTER TO HOUSEHOLDS

Addresses were obtained for those selected telephone numbers which were listed (i.e., the number is published in the phone book). Advance letters from the Federal Highway Administrator were sent to households with listed phone numbers; no letters could be sent to households that had unlisted telephone numbers. Advance letter mailings were performed about once a month, using the phone numbers periodically added to the sample.

Approximately 70 percent of the households in the U.S. have listed numbers. About 10 percent of the advance letters could not

be delivered, so more than 60 percent of sample households probably received the letter. The primary purpose of the letter was to inform the prospective respondents that this was a legitimate survey, not a marketing or fundraising call.

Though it is not possible to measure the impact of the advance letter in the absence of a designed experiment, we believe it may have legitimized the survey with many respondents, resulting in greater participation in the survey.

Appendix F contains a copy of the advance letter to sample households.

TRAVEL DAY ASSIGNMENT

Travel characteristics are known to vary by season of the year and day-of-the week.

The 1995 NPTS had more seasonal variation than planned because the number of interviewers did not remain stable throughout the 14-month survey period. To correct for seasonal variations, an element of the sample weighting was developed to specifically address this issue. Each household and person weight was adjusted so that the weighted data reflect an equal number of household and person interviews for each month. See Control Totals in **Appendix A.**

The variation in travel by day of the week was balanced by assigning the travel days for one-seventh of the sample telephone numbers to each day of the week. When the calls to a sample phone number resulted in a completed household interview, the CATI system determined the household's travel day on the selected day of the week 12 to 18 days in the future, which allowed time for dairy mailings to reach the household. This proved reasonably effective in distributing the survey travel days to the seven days of the week.

TRAVEL DIARIES

Travel diaries were used in the 1995 NPTS because, in the pretest for this survey, they proved to be the most effective method to capture full reporting of personal travel. After the household interview, a packet of survey materials was mailed to each household. The packet contained:

A travel diary for each household member age 5 and older - a label was affixed to each diary with the

- first name of one household member.
- Two \$1 bills were clipped to each diary.
- Instructions for filling out the travel diary, including a sample diary.
- A brightly colored 8 ½ x 11 reminder sheet identifying the household's travel day.
- A form identifying the make, model and year of each household vehicle, with spaces to enter the odometer readings and the dates they were taken.

Appendix F contains samples of the materials sent to respondents.

The use of travel diaries represents a significant change in survey methods from earlier NPTSs. The purpose of the travel diary was to have respondents write down each place they went as they proceeded through the day in order to obtain a more complete reporting of travel and better reporting of trip characteristics, such as time of day the trip started, the trip duration, trip distance in miles, etc.

Travel diaries have long been successfully used in urban travel surveys. A methodological pretest conducted prior to the 1995 NPTS demonstrated that using travel diaries caused more complete reporting, particularly for incidental trips, such as stopping at a convenience store, which are the most difficult to capture in a household travel survey. In addition, the overall response rates for the diary method were comparable to the retrospective method used in earlier NPTSs, thus the diary method was chosen for the 1995 survey.

CALL-BACK PERIOD

There was a six-day call-back period for reporting Travel Day trips. Phone calls to collect the diary information from the household started the day after the travel day, and continued for the next five days. Any diary information not collected during this six-day window was lost for purposes of the survey. Even though the respondent may have recorded basic information on their trips in their diary, the details of travel on a particular day should ideally be captured within the first three days, and the time interval should not be allowed to exceed six-days. Note that approximately two-thirds of the 1995 NPTS trip and travel data were obtained within three days following the household's travel day.

RESPONSE INCENTIVES

A \$2 incentive for each household member 5 and older was clipped to the diary for that person. Because respondents were being asked to fill out a travel diary, it was decided to give a small cash incentive. The literature on survey incentives is fairly clear in two respects:

- cash is the preferred incentive
- the incentive should be given in advance, rather than after the interview.

Thus, \$2 in cash was sent with each travel diary.

HOUSEHOLD ROSTER OF TRIPS

The household roster of trips captured some trips that may otherwise have been overlooked. In "household rostering" the interviewer has the benefit of trip data from all household members who had already been interviewed.

For example, suppose person #1 took a trip and reported that persons #2 and #3 were with him. When persons #2 and #3 were interviewed, they were asked to confirm that they were on the trip with person #1. If they were, the trip characteristics were copied from person #1's record to person #2 and person #3. If person #2 or person #3 said they were not on the trip with person #1, this was accepted.

This system resulted in a number of benefits to the survey operations, including making the tedious travel day reporting easier and, of course, in aiding the memory of the respondent. The 1995 NPTS may be the first large-scale household travel survey that used the household rostering concept as part of a CATI (computer-aided telephone interview) survey.

PROXY INTERVIEW PROCEDURES

A proxy interview is one in which someone else in the household reports for the respondent. In the NPTS data collection, an adult household member always serves as the proxy for a child between the ages of 5 and 13. There are also a number of proxy interviews given by household adults for teens aged 14 through 17.

An issue with proxy interviews is under what circumstances to allow one household member to report for another respondent. In

NPTS, proxies for adult members of the household were allowed if:

- the respondent was not capable of being interviewed because of an impairment or a language barrier
- the interviewer was told that this respondent would not be available for the entire six-day recall period, or
- the interviewers have been attempting to reach the respondent for the first three days of the six-day call-back period, and have not been successful.

If the respondent filled out a travel diary for travel day, the proxy household member is asked to find the diary and use it when they served as a proxy for the respondent. Note that the conditions of each interview are a part of the datafile. Thus there is a variable for:

- whether the interview was with the respondent or a proxy (PROXY),
- if a travel diary was completed, and
- if so, who completed the diary, the respondent or another household member (DIARYCMP).

CONFIRMING ZERO TRIPS

When a respondent reports not going anywhere on travel day, that may really be a "soft refusal". The respondent may not want to report their travel, but may want to still appear to be cooperative. In previous NPTS surveys reports of zero trips were not questioned or confirmed. The 1995 NPTS still did not go as far as many of the US urban travel surveys in questioning a report of no trips on travel day, but a followup question was added: "Does that mean you stayed at the same place all day?" The rate of persons reporting zero trips dropped from approximately 25 percent in 1990 to 12 percent in 1995. This change was one of many things contributing to an increased level of trip reporting in the 1995 NPTS.

3-D. DATA EDITING

ONLINE EDITS

Several variables were edited in real-time during the NPTS interviews. The on-line edit checks notified the interviewers of a possible discrepancy and allowed them an opportunity to correct an entry or other errors. For example, the combination of trip

length and time reported in the travel day section were checked against pre-programmed miles per hour ranges for most modes of travel. Reported sample person ages in the person interview were checked for consistency with the ages and relationships reported by the household's reference person. Reported zip codes were checked against pre-entered lists of valid codes.

APPROACH TO POST-INTERVIEW EDITING

In surveys with complex questionnaires and procedures, such as the NPTS, the final dataset reflects certain approaches taken in the data collection and editing processes. For the 1995 NPTS, two approach issues may have had considerable impact on the resulting data.

The first is the **reluctance to impute data.** If the respondent did not answer an item, we generally did not impute it, i.e., determine what the logical response would be given the response to other items. Carefully performed imputation has its place in many statistical surveys, however FHWA and RTI that imputation would be extremely limited in the NPTS data.

Second, we were **conservative in changing reported data**, unless it was clear that what was reported could not have happened. The classic example of this type of situation is the one-half hour walking trip, in which 500 miles were covered. In this type of situation we would look at the other trips of this respondent and the trips of any household members who were with him/her. Often that will clarify what should have been entered. If that effort was not successful, in this particular example it is most likely that miles would have been changed to "not reported."

PRELIMINARY EDITS

The first step in preparation for editing and cleaning the data was to extract the survey responses from the CATI data files. In doing this, it was also necessary to import data from problem sheets and supplemental trip files.

Problem sheets were completed by interviewers to indicate how to correct a problem they encountered during the interview, but were unable to correct because of CATI program limitations or respondent considerations. For example, the interviewer realized that she had entered an incorrect start time for trip number four when she was several trips further into the interview, and judged

that the interview would be lost if she asked the respondent to wait while she backed up to that trip and make the correction. In such cases the changes needed were recorded on a problem sheet , which was entered into the CATI system after the interview by supervisory staff.

SUPPLEMEN-TAL FILES

The main CATI program recorded trip data for up to 15 trips for each person interviewed. When a person took more than 15 trips on their travel day, data for the additional trips were recorded in a supplemental data file and the two files were subsequently merged.

HOUSEHOLD ROSTERING

Trip details recorded with the first household member reporting the trip were accessed and added to trip records for the other household members who reported being on the same trip.

DATA FILES

Next, the survey data was separated into several different data files:

Household file - data collected once for the household (one record per household).

Person file - data items collected once for each household member (one record for each completed person interview).

Vehicle file - data items related to the household's vehicles (one record for each household vehicle).

Travel day trip file - data items collected for each trip a person made on the household's travel day (one record for each trip each person made).

Segmented trip file - additional data collected for each of the travel day trips that involved two or more trip segments, at least one of which involved public transit or Amtrak (one record for each segmented trip).

Travel period file - data items collected for each longer trip taken by each person interviewed during a 14-day period (one record for each travel period person trip).

USEABLE

A useable household was defined for the 1995 NPTS as one in

HOUSEHOLDS

which the household interview was completed, and person interviews were completed with at least 50 percent of the adult (age 18+) household members. The data were examined in order to determine which households met this "useable household" definition.

In order for the household interview to be considered complete the household respondent must have:

- provided the complete household roster information for the household members, and
- given an address for mailing the travel diaries to the household.

In order for a person interview to be considered complete:

 travel day trip data must have been obtained for at least the destination and start time for each of the person's travel day trips.

In other words, the person interview must have been completed at least through question G.17, the person's inventory of travel day trips.

Interview data for all households not meeting the 1995 NPTS definition of a "useable household" were removed from all data files at this point, prior to any further data editing and cleaning.

This definition of useable household also increased the data collection effort. For example, if a household was composed of three adults and two children, and interviews for only one adult and two children were completed by the sixth day after travel day, all of the work for that household was discarded. There were 16,243 households in the 1995 NPTS that were considered non-useable.

RECODING

Several coding and re-coding operations were necessary to put the data in the desired form, including:

- Examining all "other, specify" responses for all items in which the interviewer had marked this option and entered text describing a non-coded response category. In many cases, the "other, specify" responses could appropriately fit into one of the previously listed categories for the questionnaire item and these were corrected.
- In other cases, additional response categories which had

- not been anticipated were reported with sufficient frequency to be added to the list of response options.
- Reported vehicle make and model information was edited for reasonableness and National Accident Sampling System (NASS) make and model codes were added to the data base.
- Standard codes were added to the data base to replace the "don't know" and "refused" responses, and to indicate items which were not applicable to this respondent or this trip, and thus were not asked due to skip patterns in the survey questionnaire.
- In the travel day section, trips with the purpose of "change transportation means" were edited and combined with adjacent trips. Interviewers had been instructed to use the "change means" trip purpose only for those cases in which respondents insisted that this was the only purpose of the trip, and they were unable to determine what the trip purpose should have been. These trips were later combined with the trips the person took before or after the change means trip.
- Segmented trips were defined for the 1995 NPTS as trips which involved a change of vehicle or means and at least one of the trip portions or segments must have been on public transit or Amtrak. If these conditions were met, and a change means trip was involved, that trip was converted to a segment of a segmented trip.

LOGICAL EDITS

Various edit routines were implemented to check the consistency of the reported data and to identify reporting or entry errors. Actual responses for all variables were examined for reasonableness and consistency across items. Extreme values that were either impossible or unlikely were identified, and inconsistent data were corrected when possible. For example:

- Very long walking trips, very short airplane trips, and very long waiting times were examined to determine whether they were legitimate data or probable entry errors.
- Calendar dates outside the survey period were edited based on other reported or assigned dates for the household.
- Some extreme or inconsistent data values which could not be corrected were edited to missing

values

- Edit flag variables were added to the data base to identify key variables that had received logical edits
- The relationship between the reported time and distance for all trips was examined by mode. Obvious entry errors were corrected.
- Trips with impossible miles per hour (MPH) for the reported mode of travel (e.g., 20 MPH walk trips) were either corrected or edited by changing the reported time or distance to missing values.
- The travel party size, computed by adding the number of household members and non-household members reportedly on the trip was also edited, by mode for all trips. It appears that some respondents reported the total number of persons on the transportation means (e.g., airplane, bus or school bus trips) even though interviewers had been instructed to define the travel party as friends, relatives or other persons the respondent knew and who were traveling together. In a number of cases, the reported number of non-household members on the trips was edited to a missing value.
- Reporting vehicle odometer readings was apparently difficult for many respondents. Many cases were noted in which the two reported readings were impossible (second reading less than the first reading) or unlikely (over 100,000 driven in a few months). Many of these reporting or entry errors were obvious and were corrected (e.g., reporting the tenths of miles on one but not both odometer readings.)
- The reported miles specific vehicles were driven by a certain person during the year and the number of miles persons reported driving in all vehicles during a year were capped at maximum values of 115,000 miles per vehicle and 200,000 miles per driver.

3-E. SURVEY RESPONSE RATES

OVERVIEW

The 1995 NPTS data were collected during the period from May 1995 through July 1996. There were several stages of data collection. First, a sample of telephone numbers was screened to identify residential households. Second, an adult member of the

household was asked a series of questions about the persons and vehicles of the household. Following this household interview, the household was assigned a travel day for trip reporting. Then, travel diaries for each person 5 years and older were prepared and mailed to the household. Following the household's travel day, interviewers called to conduct the person interview for each eligible household member. During the person interviews, travel diary information was recorded in the computer, along with responses to a number of additional questionnaire items. A summary of the overall response rates, as well as the rates obtained at each stage of the survey process are documented in this section.

SUMMARY OF RESPONSE RATES

The 1995 NPTS response rates are summarized in Table 3-1, which includes the partial response rate experienced at each stage of the survey, and the overall response rate up to that point in the process. The table shows that 73.2 percent of the in-scope sample numbers completed the screening process. Household interviews were completed for 75.6 percent of the completed screening cases, or 55.3 percent of all in-scope sample cases. Over 93 percent of the completed household interview cases accepted the travel diaries, and sufficient person-level interviews were completed for 72.1 percent of these households to classify them as "useable" for the 1995 NPTS. Within the useable households, person level interviews were completed with 92.2 percent of the eligible persons. Table 3-1 shows that the overall response rates were 55.3 percent for household level data and 34.3 percent for person level data.

Table 3-1 - Summary of Overall Response Rates

| | Rate | Rate | Calculation |
|----------------------------|------|-------|-------------|
| Telephone Number Screening | 73.2 | 73.2% | |
| Household Interview Rate | 75.6 | 55.3% | 73.2 x 75.6 |
| Diary Acceptance Rate | 93.3 | 51.6% | 55.3 x 93.3 |
| Useable Household Rate | 72.1 | 37.2% | 51.6 x 72.1 |
| Person Interview Rate | 92.2 | 34.3% | 37.2 x 92.2 |

Another way of viewing the survey response rates, is with the

actual numbers of sample cases, as follows:

112,960 - telephone numbers in-scope

82,663 - households completing screening

58,276 - households accepting diary

42,033 - useable households, that contained:

103,466 - persons eligible

95,360 - persons interviewed.

TELEPHONE NUMBER SCREENING

Table 3-2 shows the results of telephone calls to screen the 160,048 sample telephone numbers.

- Most of the 27.4 percent of telephone numbers determined to be out-of-scope (i.e., non-residential) phone numbers were business and non-working numbers.
- Residential telephone numbers accounted for 65.8 percent of the sample numbers. While telephone number screening, questionnaire section A, was completed for 73.2 percent of them, Table 3-2 shows that there were substantial numbers of refusals and other non-interview cases.
- There were also 10,897 sample numbers, or 6.8 percent of the total sample, that the interviewers were unable to classify as residential or non-residential numbers.

Table 3-2 - Telephone Number Screening Response Data

| · | Number | Percent |
|----------------------|---------------|--------------|
| Out-of-Scope -Total | 43,882 | 27.4% |
| Non-working number | 15,393 | 9.6% |
| Beeper/pager | 2,089 | 1.3% |
| Mobile phone | 953 | 0.6% |
| Modem/fax | 4,193 | 2.6% |
| Other nonresidential | 1,204 | 0.8% |
| Business | 19,270 | 12.0% |
| Group Quarters | 483 | 0.3% |
| Determined later | 297 | 0.2% |
| In-Scope - Total | 105,269 | 65.8% |
| Completed Screening | 82,663 | 51.6% |

| Answering Machine | 4,938 | 3.1% |
|---------------------|---------|--------|
| Refusal | 12,233 | 7.6% |
| Language Barrier | 1,315 | 0.8% |
| Other non-interview | 2,393 | 1.5% |
| Trials exhausted | 1,727 | 1.1% |
| Eligibility Unknown | | |
| No Contact | 10,897 | 6.8% |
| Total Sample Cases | 160,048 | 100.0% |

SCREENING RESPONSE RATE

The telephone number screening response rate calculation is illustrated in Table 3-3. The total of in-scope numbers was estimated by adding a portion of the numbers whose eligibility status was unknown to the number determined to be in-scope. More specifically, the 70.58 percent rate of in-scope numbers was applied to the 10,897 numbers whose scope could not be determined, which yielded 7,691 numbers that were presumed to be in scope. These were added to the 105,269 in-scope numbers, for an estimated total in-scope of 112,960 numbers. Of this total, 82,663 numbers, or 73.2 percent, completed eligible screening.

Table 3-3 - Screening Response Rate Calculation

| | Number |
|-------------------------------|---------|
| Total Sample Cases | 160,048 |
| Telephone Number Screening: | |
| Out-of-Scope Numbers | 43,882 |
| In-Scope Numbers | 105,269 |
| Scope Determined | 149,151 |
| Percent In-Scope | 70.58% |
| Scope not Determined | 10,897 |
| Presumed In-Scope | 7,691 |
| Estimated Total In-Scope | 112,960 |
| Completed Eligible Screenings | 82,663 |
| Screening Response Rate | 73.2% |

HOUSEHOLD The interviewers attempted to complete both the household

INTERVIEW RATES

screening and the household interview on a single call whenever possible. Toward the end of the household interview, the respondents were told the travel day selected for the household, and they were asked to complete the travel diaries they would be receiving in the mail in a few days. They were also told that a monetary incentive of \$2.00 per eligible person would be sent along with the diaries, as a token of appreciation for the time it takes to complete them.

As Table 3-4 shows, over 19 percent of the 82,663 households identified in the telephone number screening process refused to provide the household interview information. In total, household interviews were completed with 62,468 household respondents, or 75.6 %. In 4,192 of these, the household respondent either refused to verify their mailing address, if we knew it before the interview, or refused to provide the mailing address, if we didn't know it in advance. These cases are shown in Table 3-4 as completing the household interview, but refusing to accept the travel diaries.

Table 3-4 - Household Interview Response Data

| | | Number | Percent |
|----------------------------|-------|--------|---------|
| Household Interviews: | | | |
| Completed - diary accepted | | 58,276 | 70.5% |
| Completed - diary refused | | 4,192 | 5.1% |
| Completed - total | | 62,468 | 75.6% |
| Refusal | | 16,039 | 19.4% |
| Language Barrier | | 704 | 0.9% |
| Other non-interview | | 888 | 1.1% |
| Trials exhausted | | 2,564 | 3.1% |
| | Total | 82,663 | 100.0% |

PERSON INTERVIEW RATES

At the completion of the household interview, the household's travel day was assigned 12 to 18 days in the future. This allowed time to prepare and mail the diaries, and for the mail to be delivered to the household shortly before their travel day. Following the travel day, interviewers called to retrieve the diary information and complete the person interview for each eligible household member.

Table 3-5 shows that there were 146,317 eligible persons in the 58,276 households that completed the household interview and accepted the diary. Of these 146,317 people, person interviews were completed with 97,881 people or 66.9 percent. An additional 5.1 percent were refusals and 14.6 percent were for persons that could not be contacted despite repeated attempts during the six-day interviewing period. Table 3-5 also shows the breakdown of completed interviews by whether they were completed by the persons themselves or by proxy respondents. Note that the 1995 NPTS required proxy interviews for all eligibles 5 to 13 years of age; it allowed proxy interviews for eligibles who were 14 years and older.

Table 3-5 - Person Interview Response Data - All Households

| | | Number | Percent |
|-----------------------------------|-------|---------|---------|
| Completed - self interviews | | 65,869 | 45.0% |
| Completed - proxy interviews | | 32,012 | 21.9% |
| Total Completed interviews | | 97,881 | 66.9% |
| Partial interview | | 776 | 0.5% |
| No Contact | | 21,366 | 14.6% |
| Refusal | | 7,433 | 5.1% |
| Language Barrier | | 0 | 0.0% |
| Incapable | | 594 | 0.4% |
| Deceased | | 47 | 0.0% |
| Other non-interview | | 496 | 0.3% |
| Trials exhausted | | 17,724 | 12.1% |
| | Total | 146,317 | 100.0% |

USEABLE HOUSEHOLD RATE

The 1995 NPTS defined a useable household as one in which person interviews were completed with at least 50 percent of the household's eligible adults. Table 3-6 shows that 42,033, or 72.1 percent, of the 58,276 households that accepted the travel diaries met this requirement. Person interviews were completed for all eligible persons in the majority of the useable households. The 1995 NPTS data files contain the information collected from these 42,033 useable households.

Table 3-6 - Useable Household Response Data

| | Number | Percent |
|------------------------------------|---------------|---------------|
| Person Interview Results: | of Households | of Households |
| All persons completed | 35,914 | 61.6% |
| Enough persons completed | 6,119 | 10.5% |
| Total Useable households | 42,033 | 72.1% |
| Too few persons completed | 16,243 | 27.9% |
| Total households accepting dairies | 58,276 | 100.0% |

PERSONS IN USEABLE HOUSEHOLDS

Table 3-7 shows the person response rate information within 1995 NPTS useable households. Data for each of the 95,360 responding persons in useable households is included in the 1995 NPTS data files, and accounts for nearly all of the 97,881 (see Table 3-5) person interviews completed in the 1995 NPTS survey.

Note that the proxy interviews include persons age 5 through 13 where the interview must be by proxy, and 14 through 17 year-olds who have a high incidence of proxy interviews.

Table 3-7 - Person Response Rate Within Useable Households

| | Number | Percent |
|--|---------|---------|
| Completed - self interviews | 63,646 | 61.5% |
| Completed - proxy interviews | 31,714 | 30.7% |
| Total Completed interviews | 95,360 | 92.2% |
| Not Completed | 8,106 | 7.8% |
| Total Eligible Persons in Useable Households | 103,466 | 100.% |

3-F. CONFIDENTIALITY ASSURANCE

CONFIDEN-TIALITY MEASURES

The following measures were taken in producing this public use data set to assure respondent confidentiality:

- All direct identifiers, such as telephone numbers, zip codes, county codes, names of individuals, and addresses were removed from the files.
- Metropolitan Statistical Areas (MSAs) of less than 1 million population and states with less than 2 million population are not specifically identified on the datafile.
- Other geographic variables were examined to prevent identification of geographic areas with less than 50,000 population (1990 Census). These variables included the MSA size code, Census division, and the specificallyidentified MSAs and states.
- The data files contain a number of population and workforce variable estimates at Census Tract and Block Group levels. These variables will help describe the area of the sample members' household and work locations. The values published for these variables were rounded and/or placed into intervals to lessen the likelihood of users identifying specific areas from these variables.
- The specific dates of travel day and travel period trips were removed from the file.
- Data values for certain other variables were coded into intervals or suppressed, and some data distributions were capped. For example, detailed year/make/model information for antique and classic autos could compromise respondent confidentiality if fully revealed. In the public use files, rare make and model codes were recoded as "other" makes and models. The year data for 1919 to 1969 model vehicles was re-coded into intervals.

3-G. WEIGHT CALCULATIONS

WEIGHTS

The purpose of weighting in NPTS is to expand the sample data to estimates for the U.S. population. There are four different NPTS weights that are used to compute different kinds of population estimates. The methods used to calculate each of the four weights are discussed in the sections which follow.

HOUSEHOLD WEIGHTS

With the NPTS list-assisted sample design, all in-sample households have a known, nonzero probability of selection. The

unadjusted household weight is simply the reciprocal of the household's selection probability.

Since household telephone numbers were selected with equal probabilities within each sample stratum, the initial household sampling weights are computed simply as the ratio of the number of sampling units (telephone numbers) in the sampling frame for a stratum to the number of sample telephone numbers released for calling.

The initial sampling weights were adjusted for multiplicities arising from households that had more than one residential telephone number in the sampling frame, i.e., more than one chance of being in the sample.

Then the household weights were adjusted to sum to 98,990,000, an estimate of the number of U.S. households in 1995, to correct for non-responding households. Note that the estimated number of households includes those with and without telephones.

The household weights were then adjusted to equal marginal totals for the important variables listed below, to correct for non-response and non-coverage, and to reduce non-response bias. The basic concept is to adjust the sampling weights of the survey respondents so that they sum to known external totals, e.g., Census totals. A method of iterative proportional fitting was used to adjust the household weights simultaneously so the sums agreed closely with the following marginal controls:

- Equal weight totals for each of the 12 months of the year.
- Geographic areas estimated total households in the four Census regions plus sub-regions associated with the addon areas (39 total areas).
- U.S. level Current Population Estimates of the numbers of Black and non-Black households.
- U.S. level Current Population Estimates of the numbers of Hispanic and non-Hispanic households.
- Five categories of MSA population sizes.
- Four household size categories (1, 2, 3, 4 or more persons).

The adjusted household weights are appropriate for use in weighting all NPTS household variable data and vehicle variable data, since information on vehicles was collected at the household level. This variable is WTHHFIN.

NOTE: It is NOT appropriate to summarize travel day or travel period travel at the household level and then weight the estimate by the household weight. Travel data was collected at the person level, and a derivation of the person weight, such as the trip weight, must be used to obtain accurate estimates of travel day and travel period data. This is primarily because the person weight and the trip weights have been adjusted to account for non-interviewed persons within an interviewed household.

PERSON WEIGHTS

Since there was no sub-sampling of age-eligible persons within NPTS sample households, the household weights would also be appropriate for weighting the person data if data for 100 percent of the eligible persons within sample households had been obtained. Since that was not the case, the person weights were adjusted to compensate for person-level non-response in the 1995 NPTS. The sum of all person weights was adjusted to equal 241,675,000, an estimate of the number of U.S. residents in 1995 five years and older. Post-stratification weight adjustments were also made to adjust the person weights to the following external known totals:

- Equal weight totals for each of the 12 months of the year.
- Geographic areas estimated total persons in the four Census regions plus sub-regions associated with the addon areas (39 total areas).
- U.S. level Current Population Estimates of the numbers of Black and non-Black persons.
- U.S. level Current Population Estimates of the numbers of Hispanic and non-Hispanic persons.
- Ten categories of U.S. level age by gender populations (males and females each by the following ages: 5 - 17 years; 18 - 34; 35 - 44, 45 - 64, and 65 years and older).

The adjusted person weight, variable WTPERFIN, should be used to weight all person-level data from the 1995 NPTS survey. Person weights form the basis of the travel day and travel period weights, since person weights are adjusted to account for non-interviewed persons within an interviewed household.

TRAVEL FILE WEIGHTS

The two trip-level weights are simple functions of the adjusted person weights. There is no adjustment to be made for trip-level non-response, since the trip data had to be obtained in order for the person to be treated as a responding person. Each person's

travel-day trip weight, variable WTTRDFIN, was calculated by multiplying the final person weight, WTPERFIN, times 365 to expand the person's travel day to an annual total. This weight is appropriate for weighting data from the travel day trip file and the segmented travel day trip file. The travel period weight, variable WTTRPFIN, for a person was calculated by dividing their travel day weight by 14, to reflect the 14-day travel period.

3-H. SURVEY METHOD AND PROCEDURE CHANGES

1995 NPTS CHANGES

In many ways the 1995 NPTS represents a significant change in survey methods and procedures from earlier NPTSs. These survey changes, which are listed in Exhibit 3.1, have had a significant impact on the results of the survey. The greatest impacts are most likely from:

- 1. Use of a written diary to help remember travel on a specific day. In the pretest conducted in 1994 for the 1995 NPTS, a written diary was compared to the retrospective, or recall, method. The diary method averaged 0.5 trips more per person per day than the retrospective method. (Reference: PlanTrans, Draft report on NPTS Pretest Methods, Spring 1997)
- 2. The household roster of trips, that maintained a list of trips that household members already interviewed had been on with, or accompanied by, this respondent.
- 3. The \$2.00 incentive that was sent with each travel diary. This may have made the respondents feel obligated to record and report all of their travel.
- 4. Use of an advance letter to notify potential respondents that they would be recruited for the survey. We believe that the advance letter added legitimacy to the telephone recruitment, which contributed to higher quality data. The effect of the advance letter cannot be measured quantitatively.
- 5. Confirmation of "no travel" to distinguish from "soft refusals." The proportion of persons who said they made no trips on the assigned travel day was approximately 12

percent in 1995, compared to about 25 percent in 1990.

Exhibit 3.1 - Changes in the 1995 NPTS Survey Methodology and Their Probable Impacts

| TOPIC | FROM | то | PROBABLE IMPACTS |
|--------------------------------|---|--|--|
| Respondent Contact | No advance letters | Advance letters | Improved response Legitimizes the survey with respondents |
| | No incentive | Incentive (\$2/person) | Improved respondent cooperation rates, may have increased trip reporting |
| Trip reporting | Recall | Travel Diary | More trips reported More shorter, incidental trips More trips for family & personal business and social & recreational purposes |
| | All trips for each person collected independently | Household rostering of trips | Include trips that may have been forgotten More consistent trip data Lower respondent burden More coherent picture of household tripmaking |
| | Did not specifically confirm zero trips | Specifically confirmed zero trips | More accurate count of persons who made no trips on their travel day |
| | Proxy from memory | Proxy from diary | More trips reported More accurate reporting of trip characteristics |
| | Trip definition | Clearer trip definition | Easier for respondent to report trips Interviewers more attuned to pick up incidental trips |
| | On-line edits | Additional on- line edits | More coherent trip reporting Improved data quality |
| Completed household definition | At least one person completed the travel day trip section | At least 50% of the adults completed the travel day trip section | A more accurate representation of travel by the household unit |

CHAPTER 4. DESCRIPTION OF DATA FILES

4-A. STRUCTURE OF THE DATA FILES

BASIC STRUCTURE

The 1995 NPTS Public Use Data are organized into six different data files, which are available to users in SAS, ASCII, or DBF formats. Exhibit 4.1 illustrates the structure of the six files, with a description of which data are included in each file, the applicable questionnaire sections, the record level, and the variables which are needed to uniquely identify a record (ID variables).

The file variables are identified by variable name in the SAS versions. For each file variable, the code book contains:

- the variable type & length
- whether it was a variable on the 1990 NPTS dataset
- the label, which is a brief description of the variable
- the section and item number of the questionnaire or other source of the data
- value ranges and special codes
- the frequency of responses for each value or code shown
- comments, as necessary

The variables in the ASCII files are on the file in the following order:

- ID and weight variables, followed by
- question response variables in questionnaire order, and ending with
- variables used to describe the geography, stratification variables, date of interview variables, and derived variables.

See **Appendix I** for the lists of ASCII variables, including the starting position and length of each variable and their order on the NPTS files.

Users should be aware that the ID variables TRPNUM (for travel day trips) and TRIPNUM (for travel period trips) are two different variables. Also, data for all of the travel day trips, including segmented trips, are included in the travel day trip file. More detail about the segmented trips is included in the segmented

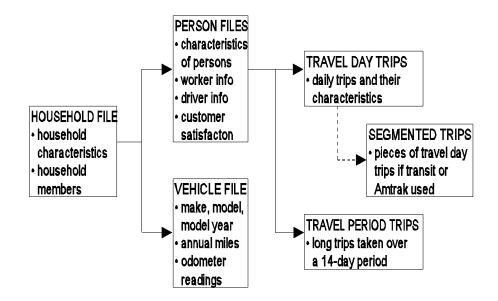
Exhibit 4.1 - Structure of 1995 NPTS Data Files

| Data Files | Information Included | Record Level | ID Variables |
|--------------------------------|--|--|--|
| Household file | Data unique to a household, or questions asked once for each sample household. Questions from interview sections: C -Home and Neighborhood D -Person Data J - Household Location, and K -Household Income | One record per household | HOUSEID |
| Person file | Data determined once for each completed person interview. Questions from interview sections: E - Driver Info. & Customer Eval. F - Education & Travel to Work I - Income of Persons not included in Household Income | One record per person | HOUSEID and PERSONID |
| Vehicle file | Data relating to each of the household's vehicles. Questions from interview section: B - Vehicle Data | One record per vehicle | HOUSEID and VEHID |
| Travel day trip file | Data about each trip the person made on the household's randomly-assigned travel day. Questions from interview section: G - Travel Day | One record per travel day trip | HOUSEID, PERSONID, and TRPNUM |
| Segmented travel day trip file | Data for up to 4 segments of each segmented travel day trip the person made on travel day. Based on responses to questions 28-30 and other questions of interview section G - Travel Day | One record per segmented travel day trip. | HOUSEID, PERSONID, and TRPNUM |

| Travel period file | Data that is asked once for every trip of at least 75 miles one way that the person took during a 14-day period ending on travel day. Questions from interview section: H - Travel Period | One record per travel period (14 days) trip. | HOUSEID, PERSONID, and TRIPNUM |
|--------------------|---|---|---|
|--------------------|---|---|---|

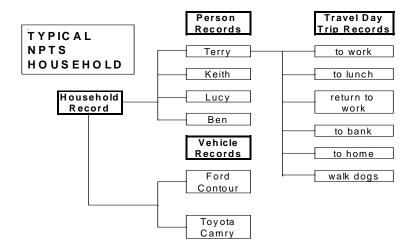
4-B. RELATIONSHIP BETWEEN THE SIX NPTS DATA FILES

The chart below depicts the six NPTS data files and their relationship.



TYPICAL NPTS HOUSEHOLD

The next chart shows how the records would appear for the data reported by the Typical NPTS Household example introduced in Chapters 1 and 2. Remember that this household reported only a portion of what would have been reported in an actual NPTS interview.



NOTES: - This follows the Typical NPTS Household material in Chapter 2. In a real household, there would probably be trips by each household member.

- Terry had no long trips, so there is no Travel Period file for her
- Terry had no segmented trips, so there are no Segmented trip files for her

TRAVEL DAY AND TRAVEL PERIOD TRIPS

These two sections of the questionnaire are designed to complement each other. When the data from the two sections are combined, a more complete picture of personal travel is obtained.

In the travel day section, the respondent is asked to report all trips of any length during the 24-hour period designated as their "travel day." The travel day is designed to collect the types of trips typically made on a daily basis, such as trips to work, to the store, running errands, and visiting friends.

Because people make longer trips less frequently, respondents are asked to report any long trips, defined as 75 miles or more one-way, taken over a two week period. This is known as the travel period.

Once the travel day is designated for a household, the travel period becomes the thirteen days preceding the travel day plus the travel day. Because the travel day is also included in the travel period, if the respondent took a long trip on travel day, this would be reported in both trip sections of the questionnaire. These trips, which are called "overlap" trips, must be subtracted from travel day data when the user combines travel day and travel period. To do this, omit the trips on travel day that have the a "yes" response (code=01) in the OVERLAP variable.

SEGMENTED TRIPS

In the 1995 NPTS, as in the 1990, certain trips were "segmented", that is, they were broken into their component parts. A trip was segmented if both of these conditions were met:

- there was a change of vehicle or a change of mode on the trips, AND
- one of the modes used was a public transit mode or Amtrak. Public transit modes include bus, subway, elevated rail, commuter train, streetcar or trolley car.

This was done to collect more complete data on multi-modal trips, with particular emphasis on the use of public transit.

There was a limit of four segments per trip, and the typical travel day trip information was collected, along with the mode, start time and duration of each of the segments.

TRIPS NOT SEGMENTED

Trips in which the respondent went from one private vehicle (POV) to another were not segmented. For example, the respondent drives his sport utility vehicle to the pickup point for his carpool, then rides to work in the car of another carpool member. These POV-to-POV transfers were not segmented because they would have added to the respondent burden in reporting travel day trips, without an offsetting value in improving

our understanding of travel behavior. When more than one POV was used for a trip, the travel mode was assigned to the vehicle type used for the longest distance. In the example above, the car was probably the mode used for the longest distance.

RELATION-SHIP OF TRAVEL DAY TRIPS AND SEGMENTED TRIPS Segmented trips are a small subset of the universe of NPTS travel day trips. Of the 409,025 travel day trips collected in the 1995 NPTS, 3,779 or less than one percent, are segmented. When a travel day trip is segmented, most of the trip information is on the travel day trip record. In addition, a segmented trip record is established on the segmented trip file. This segmented record, which has the same ID variables as the travel day trip record, contains the unique information on each of the segments of the trip, such as the mode, start time and duration in minutes. Even though a trip can have up to four segments, there is only one segmented trip record established. The data for each segment is listed in variables with names like SEG1_MIN, SEG2_MIN, SEG3_MIN, etc. to accommodate the characteristics of up to four segments in one record.

WHEN IS A RECORD ON THE FILE

The purpose of this subsection is to present information on the NPTS file structure that has confused data users in the past.

Household Record - There is one record for each household in the dataset, also called a "useable" household.

Vehicle Record - There is a vehicle record for each vehicle owned by or available to a useable household. If the household has no vehicles, there will not be any vehicle records. The number of household vehicles, including zero vehicles, is available on the household record in the variable, HHVEHCNT.

Person Record - There is a person record for each **interviewed** person in the household. For example, a household consists of three people, Tom, Dick & Harry. Tom and Dick were interviewed for the NPTS, but Harry was never available, despite repeated attempts. There will be a person record for Tom and one for Dick. No person record will exist for Harry, but his characteristics will be available to the analyst on the household file (see **HOUSEHOLD**

MEMBER VARIABLES below.)

Travel Day Trip Record - There is a trip record for each trip taken by an interviewed person in a useable household. So, in our example above, if Tom makes six trips, there will be six travel day trip records on the file. Suppose Dick was ill and stayed home all day. There are no travel day trips records for Dick, however, there is a person record for him, since he was interviewed. The person file variable, SAMEPLC, i.e. "stayed in the same place all day?", will confirm that Dick was interviewed for travel day and reported no trips. No travel day trip records will exist for Harry, since he was not interviewed. Likewise, there will be no person file record for Harry.

In earlier NPTSs, before "stayed in same place all day?" was asked, data users assumed that the lack of a travel day trip record for Dick meant that he was not interviewed for his travel day travel. This is not true. If there is a person record for that person, they were interviewed for travel day. Note that about 12 percent of the 1995 NPTS respondents reported no travel day trips. While some of these non-travelling people may be "soft refusals" who did not want to bother reporting their trips, many of them are legitimate non-travellers. Remember that the NPTS travel days encompass all 365 days of the year, including holidays and weekends.

Segmented Trip Record - A segmented trip record will be present only when a travel day trip meets the two conditions for segmented treatment (see **SEGMENTED TRIPS** discussion above). In our example, assuming that none of Tom's six trips met those conditions, there would be no segmented trip records for him.

Travel Period Trip Record - A record is present only when a qualifying trip was made by the respondent. Thus, if Dick, who was sick on travel day, had made a 250-mile trip the week before travel day, there would a travel period trip record for him. Because little detail is collected on the long trips in the travel period section, there is only one record for each roundtrip.

HOUSEHOLD MEMBER VARIABLES

For the 1995 NPTS, the characteristics of all household members, whether interviewed or not, are available on the Household File. These characteristics were included to allow the user to address a number of travel behavior and survey method research issues. The characteristics are contained in the variables starting with P1 through P10 and, for each household member, the information includes:

- age (P1_AGE, P2_AGE,etc.)
- sex (P1_SEX, etc.)
- relationship to household respondent (P1_RELAT, etc.)
- driver status (P1_DRVR, etc.)
- worker status (P1_WKR, etc.) and
- response status, i.e., eligible or not eligible, interviewed or not interviewed, self interview or proxy (P1_STAT, etc.).

In earlier NPTSs it was difficult to obtain a complete picture of the household members, because a person record is only on the datafile when a household member is interviewed for the survey. The characteristics of all household members were gathered in the household interview, but in the 1990 NPTS the characteristics of those household members not interviewed were discarded. This caused some limitations on the analyses that could be performed, so it was decided to retain characteristics of all household members in the 1995 NPTS.

4-C. CODEBOOK

CODEBOOK FORMAT

The documentation includes a codebook, with sections for each of the data files. The codebook contains critical user information about each variable in each of the files. The codebook is arranged in a two-page format, with the variables in Exhibit 4.2 beginning on the left-hand side and continuing across the two facing pages. Exhibit 4.2 lists the items that correspond to the codebook columns, along with a brief description of the contents of each column.

CODEBOOK EXAMPLE

As an example, the third column of Exhibit 4.2 shows the codebook information for the variable named BUS_DIST.

- It is a numeric variable of width 5 including the decimal point (up to 3 digits before the decimal and one after).
- This question was not asked in the 1990 NPTS.
- This variable contains the distance in miles from the home to the nearest bus stop, reported in response to item 2.1 of questionnaire section C.
- The value range and the frequencies show that the file contains 26,160 reports ranging from 0 to 100 miles; that 1,245 household respondents said they could not ascertain the distance, and 15 refused to answer the question. It also shows that the question was legitimately skipped in the 14,613 households in which the household respondent answered no or don't know to question C-1 "Is local bus service available in your town or city?"
- The comment for this variable tells the user that the responses in blocks have been converted to miles using a factor of 9 blocks per mile.

Exhibit 4.2 - Contents of the 1995 NPTS Code Books

| Column Heading | Description of Contents | Example Variable (from Household File) |
|------------------------|--|--|
| Target Variable | The variable name | BUS_DIST |
| Variable Type | C = character; N = numeric | N |
| Width | Maximum variable length | 5.1 |
| 1990 Variable Name | S = same name in 1990 NPTS N = new variable in 1995 NPTS * = variable values external to the survey | N |
| Variable Label | Short description of the variable | Distance to bus (miles) |
| Section | Source section(s) of the questionnaire | С |
| Item ID | Source item(s) in the questionnaire section | 2.1 |
| Value Range & Codes | Either lists all possible values of the variable, a range of the values, or a combination of the two | (0 - 100) 994 = Legitimate skip 998 = Not ascertained 999 = Refused |
| Frequencies | Shows the number of records in the file for each listed value | 0-100 = 26,160 994 =14,613 998 = 1,245 999 = 15 |
| Comments | Gives additional information to users, or refers to relevant discussion in other sections of the documentation | Miles as reported, blocks converted to miles (9/mile) |

COMPAR-**ABILITY WITH 1990 NPTS**

Emphasis was placed on making the 1995 NPTS data files comparable with the 1990 NPTS data files.

- To the extent possible, the same variable names as in 1990 were used for variables based upon the same information. In cases where the information is basically the same as 1990, but it was asked in a slightly different way or context, the similar 1990 variable name will be listed in the codebook column labeled "1990 variable".
- The same general scheme was used again for legitimate skip, not ascertained and refusal codes.
- The documentation in this volume is intended to cover at least the same content as the "1990 NPTS User's Guide for the Public Use Tapes", (Publication FHWA-PL-92-007).

4-D. VARIABLES REPEATED

REPEATED VARIABLES

In addition to the information specific to its file (e.g., the travel day file contains data on the individual travel day trips), each of the six files includes variables from other files to be used along with its own variables. This is done for the convenience of the data user, to minimize the need to merge data from multiple files. Although this format is less desirable from a data storage standpoint, it significantly simplifies subsequent data manipulation.

HOUSEHOLD **LEVEL REPEATED VARIABLES**

The following commonly used variables are included in all six data files:

| VARIABLE DESCRIPTION | VARIABLE NAME |
|--------------------------------------|---------------|
| Census Division | CENSUS_D |
| Census Region | CENSUS_R |
| Number of household drivers | DRVRCNT |
| CMSA of household (Consoli- | |
| dated Metropolitan Statistical Area) | HHCMSA |

Household family income

category HHFAMINC

MSA of household

(Metropolitan Statistical Area) HHMSA
Number of household members HHSIZE
Number of household vehicles HHVEHCNT

Hispanic status of household reference

person HH_HISP
Race of household reference person HH_RACE
Household life cycle LIF_CYC
Population size of MSA MSASIZE

Presence or absence of rapid rail

(i.e., subway, elevated rail) RAIL

Substratum within major stratum for low-density or high-density residential

phone numbers SUBSTRAT

Travel day month (May 1995 through

June 1996)
Travel day year
Major sample stratum
Number of household workers

TDAY_MON
TDAY_YR
VARSTRAT
WRKCOUNT.

BLOCK GROUP REPEATED VARIABLES - Four of the variables that describe the block group of the interviewed household are also repeated on the other files (except the segmented trip file). These four variables are:

VARIABLE DESCRIPTION VARIABLE NAME

Median household income, block group HBHINMED Housing unit density, block group HBHRESDN Urban/rural code, block group HBHUR Population density, block group HBPPOPDN

PERSON LEVEL REPEATED VARIABLES There are a few person-level variables that are repeated on the three trip files (travel day, travel period, and segmented trips.). These are:

VARIABLE DESCRIPTION VARIABLE NAME

Whether respondent is a driver DRIVER
Was this a proxy interview PROXY
Respondent's age R_AGE

4- E. VARIABLES ADDED

ADDED VARIABLES

An added variable is an item on the dataset that is not a response to a question in the interview. Numerous variables were developed and added to the data base, including:

- summary variables to aid data analysis,
- external variables to describe the geographic area surrounding the respondents' household and work locations, and
- flag variables to identify data records that have been edited.

HOUSEHOLD LEVEL

Common-required variables were calculated and included on the data files so they would not need to be constructed each time they were needed. The variables that are repeated on all six files are indicated with an asterisk.

| VARIABLE DESCRIPTION | VARIARI E NAME |
|----------------------|----------------|

* Number of drivers in the household DRVRCNT Number of eligible household members HHELGCNT

* Total number of persons in the

household HHSIZE

* Number of household vehicles HHVEHCNT

Number of household members under

5 years of age HH_0TO4

Number of household members not eligible for NPTS (e.g., under 5 years of age, determined not to reside in the household, or incapable of being

interviewed) INELGCNT
* Life cycle of the household LIF_CYC

Variable indicating non-family income

reported in the person file NONFMFLG

Number of person interviews

completed for the household RESP_CNT

Day of week for the household's travel day TRAVDAY

* Number of workers in the household WRKCNT.

TRACT &
BLOCK
GROUP
CHARACTERISTICS

A number of geographically-based variables obtained from Claritas, Inc. were added to the database. These variables are based on Census tract or block group level projections of 1990 Census data to 1995. They provide the data user with characteristics of the respondent's neighborhood, which can supplement to the data collected on the respondent's household.

The tract and block group were identified by geocoding the reported home and work addresses from the survey. The addresses used to geocode the home and workplace locations were removed from the dataset for confidentiality reasons.

All of the household level variables are on the Household file, and the workplace variables are on the Person file. Four of these variables were repeated on all files except the Segmented Trip file (see **BLOCK GROUP REPEATED VARIABLES** above).

Appendix L contains more information on the tract and block group variables.

TRAVEL DAY

The derived variables added to the travel day file are:

VARIABLE DESCRIPTION VARIABLE NAME Whether the trip began during AM or PM hours DAYNIGHT Difference in days between the household travel day and the person interview date DIFFDATE The number of minutes spent at destination of previous trip DWELTIME Total number of persons on the travel day trip NUMONTRP Variable identifying travel day

POV trips for which the respondent was the driver

VTR_FLG

TRAVEL PERIOD

There are two derived variables added to this file:

VARIABLE DESCRIPTION VARIABLE NAME

Straight line distance of the travel period trip, based on household

location and reported trip

destination CALCDIST

Imputed variable identifying the

driver of a travel period trip DRVR_TRP.

1990 TRIP PURPOSES

The trip purpose definitions for the 1995 NPTS differed from those used in the 1990 NPTS. In addition to the 1995 trip purpose, each trip was recoded into the variable WHYTRP90 to mimic the 1990 NPTS trip purpose definitions.

The 1995 trip purposes use a "from-to" format, while the 1990 purposes were based on coding a "main reason" for the trip. As a result, the trip purpose codes used in 1995 differed from the 1990 trip purposes in the following ways:

- Returning home is a 1995 trip purpose but was not a 1990 NPTS trip purpose. In 1990, the trip purpose was assigned to the activity that was the main reason the person was away from home.
- In 1990, if one of the reasons was work, the return trip home was assigned a work purpose, even if there were incidental trips made on the way home.
- In 1990, if there were multiple purposes for being away from home and work was not one of them, the respondent was asked main reason for the trips. Because this "main reason" format was not used in the 1995 survey, when the 1995 purposes were recoded to the 1990 scheme, the activity the person spent the most time at while away from home was assigned as the main purpose for the return trip home. The variable, DWELTIME, was created to determine this.

The recoded 1990 trip purposes will be particularly useful for analyses comparing the 1990 and 1995 data by purpose. See **Appendix M** for more detail on trip purposes and trip purpose variables on the 1995 dataset.

TRIP CHAINING

Part of the recoding of trip purposes to the 1990 purpose involved creating trip chains. For this purpose, the chains were defined by trips ending at home, work or someplace else.

There are several derived variables on the Travel Day file developed to define trip chains. The variable CHAIN file indexes the trip chains defined for each a person's travel day. Each trip reported for a respondent was assigned to a "chain", after ordering the person's travel day trips by STRTTIME from 4:00 am to 3:59 am. Trips with missing STRTTIME values were sorted to the beginning of the list. All trips within a chain are sequentially numbered in the variable CHAINTRP. Variables TRPNUM_A and TRPNUM_B identify the first and last trips in each chain. The variables FROM_A and TO_B identify the origin and destination of the chains in terms of home, work or someplace else (H, W, or S).

Some of these chains do not begin or end at either home or work, as some respondents did not take such trips. Also, some persons reported only a single trip on the travel day, such as returning home from vacation. It is possible to select a subset of chains that are anchored by home and work using FROM_A and TO_B. Note that some trip chains involve only one or two trips, which might exclude them from other types of trip chaining analyses.

CHAPTER 5. USING THE DATA

5-A. TRAVEL CONCEPTS

OVERVIEW

The Travel Concepts portion of **Appendix D** is primarily geared toward NPTS data users who are not familiar with household travel survey data. However, it may also be useful to the transportation planning professional because the use of certain travel terms and concepts often vary by individual survey. **Appendix D** contains definitions of the following measures of personal travel, when to use each, and how to compute them with the NPTS data:

- Person Trips
- Person Miles of Travel (PMT)
- Vehicle Trips
- Vehicle Miles of Travel (VMT)
- Vehicle Occupancy
- Trip Chains
- Overlap Trips (used when adding Travel Day and Travel Period data)

5-B. TABULATING THE DATA

SAMPLE TABLES & LOGIC

Appendix B contains 12 sample tables, computed at the national level. The sample tables were chosen to illustrate frequently used data tabulations. Tables were chosen to illustrate the national-level estimates which would be tabulated by many data users, such as estimated:

- total households by income and vehicle ownership pattens
- total persons by age, race and gender
- total numbers of workers, drivers, person trips, person miles, vehicle trips, and vehicle miles.

The 12 sample tables in **Appendix B** also include vehicle occupancy and commute time tabulations.

Each cell of each of the tables contains the:

- sample size
- weighted estimate, and
- sampling error of each weighted estimate.

These tables were prepared using the SUDAAN survey data analysis software developed by RTI. The computer logic used to prepare the data input to make the tables is also included in **Appendix B.**

ADDITIONAL RESOURCES

NPTS Website: http://www-cta.ornl.gov/npts

The NPTS Website offers:

- analysis capability which will include production of user-defined tables,
- a component for exploratory analysis of the data,
- a number of standard NPTS tables, and
- a conference portion to allow the data user to communicate with others, share code, etc.

NPTS Training - FHWA is developing an interactive CD-ROM as a stand-alone training tool. This will allow individuals to obtain training that fits with their needs.

Contact information for user support:

NPTS Website: Oak Ridge National Laboratories

ORNL, (423) 574-5958

rta@ornl.gov

User Support FHWA, (202) 366-5026

(Non-Web) OHIM.gatekeeper@fhwa.dot.gov

Fax (202) 366-7742

5-C. CONTROL NUMBERS

Two kinds of control numbers, control totals and weight sums, are described briefly below.

CONTROL TOTALS

Control totals are known values, external to the survey itself, which are used to adjust the survey weights for non-response and non-coverage. Control totals were used to adjust the 1995 NPTS weights for:

- (1) the number of U.S. households, and
- (2) the number of persons five years of age and older. The control categories chosen for the 1995 NPTS and the method used to make the adjustments, also known as a post-stratification

weight adjustment procedure, are described in Section 3-G of this User's Guide. **Appendix A** contains the full complement of Control numbers for the 1995 NPTS data set.

WEIGHT SUMS

Weight sums are simply the calculated sums of the survey weights. These values are helpful to users in verifying the correctness of data tabulations. The 1995 NPTS total sample sizes and weight sums for the six data files are as follows:

Exhibit 5.1 - File Sample Sizes and Weight Sums

| Data File | Sample Size | Weight Sum |
|--------------------|----------------|-----------------|
| Household | 42,033 | 98,990,000 |
| Person | 95,360 | 241,675,000 |
| Vehicle | 75,217 | 176,066,658 |
| Travel day trip | 409,025 | 378,930,363,336 |
| Segmented trip | 3,779 | 3,440,664,924 |
| Travel period trip | 29,647 | 1,996,178,135 |

5-D. WEIGHTING THE DATA

MUST USE THE WEIGHTS

Calculation of survey weighting factors for the 1995 NPTS data was discussed earlier in Section 3-G of this User's Guide. The weights reflect the sample design and selection probabilities, over-sampling of certain strata, and adjustments to compensate for survey non-response and non-coverage.

The weights are multiplicative factors that **must** be applied to the file variables in order to obtain valid estimates of population values. If the weights are not used, the tabulations will give incorrect results. For example, overall unweighted daily sample trips per household are 9.73, whereas overall weighted daily trips per household are 10.49. Sample error can be magnified and lead to serious inaccuracies when weights are not used in tabulating these data.

The estimated weighted totals are obtained by multiplying each data value by the appropriate weight and summing the results. The purpose of weighting the data is to obtain valid estimates of national and regional totals for the U.S. population.

OVER-SAMPLING

Large metropolitan areas with subway or elevated rail transit systems were over-sampled in order to increase the number of insample transit trips. Also, several geographic areas purchased NPTS add-on contracts, increasing the sample sizes within their planning areas in order to provide small-area data for transportation planning. The target sample size for the national sample was 21,120 useable households. Additional samples of useable households were provided to five add-on areas, as shown in Exhibit 5.2.

ADD-ON AREAS

Over-sampling certain strata to increase the sample sizes increases the selection probabilities for each household in the sampling frame for the over-sampled areas. The larger selection probabilities translate into smaller weighting factors for the oversampled strata, correcting the weighted results for the effect of the over-sampling. Note that Exhibit 5.2 shows that the five addon areas accounted for 55.2 percent of the final useable households in the 1995 NPTS data set, though they accounted for only 10.8 percent of the initial 1995 NPTS target sample size at the national level, and 10 to 11 percent of U. S. households. would be especially dangerous to rely on unweighted tabulations made from the 1995 NPTS data files, because of the heavy oversampling rates applied in the add-on areas. That is, national data tabulations made without weighting the data would look a lot like data for New York and Massachusetts. Weighting the data eliminates this problem and corrects the sample estimates.

Exhibit 5.2 - Target and Final Sample Sizes, at the National and Add-on Levels

| Geographic Area | National Sample | Add-on Sample | Total Target | Final Actual |
|----------------------------|--------------------|------------------|-----------------|-----------------|
| New York | 1,683 | 9,189 | 10,872 | 11,004 |
| Massachusetts | 490 | 7,500 | 7,990 | 7,801 |
| Central Oklahoma | 68 | 2,944 | 3,012 | 2,956 |
| Tulsa, Oklahoma | 51 | 962 | 1,013 | 976 |
| Puget Sound | - | 300 | 300 | 326 |
| Remainder of United States | 18,828 | - | 18,828 | 18,970 |
| Totals | 21,120 | 20,895 | 42,015 | 42,033 |

5-E. SAMPLING ERRORS

EXAMPLE

Sample surveys are conducted when time or resources are not available to enumerate every household or person. Because every person was not included, the sample has an error associated with the results. Calculating sampling errors allows the measurement of the variability in the estimated statistics, and allows analysts to make probability statements about how large the difference may be between a sample statistic and its population value.

For example, the 1995 NPTS estimated number of household vehicles in the United States is 176,067,000 with an estimated standard error of 828,000 (see Table 2 in **Appendix B).** This standard error estimate allows one to make the following probability statement

"We are 95 percent confident that the number of household vehicles in the United States in 1995 was between 174,411,000 and 177,723,000."

That is, statistical theory tells us that estimated statistics will be within two standard errors of the census value in 95 percent of the possible samples that we may select. Here the census value is the value that would have resulted had the 1995 NPTS survey

been conducted in all United States households, rather than in a sample of households.

USE THE WEIGHTS

When calculating sampling error estimates, it is absolutely necessary to use the survey weights and formulas which properly account for the sample design used for the survey. The 1995 NPTS survey data set is based on a complex sampling design that includes stratification, unequal weighting and clustering of persons, vehicle, and trips. Sampling errors are typically decreased by stratification and increased by sample clustering and unequal weighting, with clustering normally being the dominant factor. Many standard statistical packages, including SAS, do not calculate sampling errors properly using data from the NPTS or other complex samples. See Appendix G for additional information about properly computing NPTS sampling errors.

5-F. FINDING THE VARIABLES YOU WANT

VARIABLE LISTS

The 1995 NPTS data sets are large and complex, containing numerous survey and external variables. In addition to the code books for each of the six NPTS data files, the following variable lists are available to assist users in locating NPTS variables:

- 1. <u>SAS Proc Contents</u> **Appendix I** contains SAS proc contents lists for each of the six NPTS data files. The survey variables are listed in alphabetic order on each of these six listings.
- 2. <u>ASCII File Variable Lists</u> **Appendix I** also contains the list of each ASCII variable, with its position and length on each of the six files. The ASCII variables for each NPTS file are ordered as follows:

first, ID and weight variables second, questionnaire variables in order by questionnaire section and item number; and last, all stratification variables, computed or derived variables and external variables.

3. <u>Data Dictionary Listing</u> - This list shows all of the variables that are contained in all six 1995 NPTS data files in a single alphabetic listing. Since many variables are in

more than one file, the data dictionary list has six columns indicating which data files contain each of the variables. The data dictionary is **Appendix H.**

5-G. USING THE DATA FROM MULTIPLE FILES

MERGING FILES

Despite the effort to include as many "common" variables as possible (see Section 4-D), there still comes a time when it is necessary to use information from separate files for an analysis. For example, to study the daily trip patterns of different types of privately-owned vehicles (POVs), one needs to use the variable VEHTYPE (vehicle type) from the Vehicle file and link it to trip characteristics maintained in the Travel-day file. In these types of circumstances, one needs to merge together two or more of the six files.

File merging can be complicated and confusing, and a mistake can lead to invalid analysis results. However, an understanding of how the six files are structured and related to each other can significantly help clarify the process.

ID NUMBERS

Each unit (e.g. households, persons) in the survey has its unique identification number (ID). For example, each household is identified by a unique household ID (HOUSEID). Within each household, household members are numbered by a person number (PERSONID) and, similarly, household vehicles are numbered by a vehicle number (VEHID). Again, trips taken by an individual are numbered by a trip number (TRPNUM for a travel day trip or TRIPNUM for a travel period trip).

With this numbering system, the number that identifies a unit within a household (e.g., the household's vehicles and household members) needs to be used in conjunction with the household ID to **uniquely** identify that unit. For example, if a household has a HOUSEID of 12345678, its first member has a PERSONID of 01, and its second member has a PERSONID of 02, then the first household member is uniquely identified by an ID of 12345678 **01** and the second member 12345678 **02**.

Similarly, the number that identifies a trip taken by an individual needs to be used in conjunction with the person's **unique** ID (i.e., HOUSEID and PERSONID) to uniquely identify that trip.

Continuing the above example, assume that the first household member took three trips during the sample day. Thus, the number TRPNUM for the first trip is 01, the second trip 02 and the third trip 03. An ID of 123456780101 will uniquely identify the first trip taken by the first household member of Household 12345678. Likewise, an ID of 123456780102 and an ID of 123456780103 will uniquely identify the second and the third trips taken by the same person, respectively. The last trip ID is represented as:

HOUSEID; PERSONID; TRPNUM = {12345678} {01} {03}

Exhibit 5.3 shows which ID variables to use in the most common data linking of any two data files. Note that the linking ID must be common to both the "from" and "to" files. For example, in linking Person file data with Travel Day trip data, the variable TRIPNUM would not be used because it is only on the Travel Day file, not on the Person file.

Exhibit - Examples of Link Variables Between the Six 1995 NPTS

Data Files

| From File 1 | To File 2 | Linking ID Variables |
|----------------------|----------------------|-------------------------------|
| Household file | Person file | HOUSEID |
| Household file | Vehicle file | HOUSEID |
| Household file | Travel day trip file | HOUSEID |
| Household file | Travel period file | HOUSEID |
| Person file | Vehicle file | HOUSEID |
| Person file | Travel day trip file | HOUSEID and PERSONID |
| Person file | Travel period file | HOUSEID and PERSONID |
| Vehicle file | Travel day trip file | HOUSEID |
| Travel day trip file | Segmented trip file | HOUSEID, PERSONID, and TRPNUM |
| Travel day trip file | Travel period file | HOUSEID and PERSONID |

ID VARIABLES NOT ALWAYS SEQUENTIAL

The ID variables within a file are not always sequential. There are a number of reasons for this, including the following:

- Some persons and vehicles reported by the household respondent were later found not to belong with the household and were deleted from the data set
- Some trip segments reported as separate trips were combined during editing
- When a person took more than 15 travel day trips, the additional trips were numbered starting with 21 in numbering the person's trips (TRPNUM) and starting with 101 in numbering the household's trips (HHTRIPID).

EXAMPLE OF A MERGE

Depending on the nature of the analysis, merging files is typically based on a variable common to the files. The file-merging approach is illustrated here using an example. In this example, one wants to analyze the impact, if any, of occasional telecommuting on the number of daily trips. The trip-making data are contained in the Travel Day file while the variable indicating occasional telecommuting is in the Person file (WKFMHM2M). That is, the Travel-day file needs to be merged with the Person file.

The variables HOUSEID and PERSONID combined enable one to use the Person file to identify those who occasionally telecommute and those who do not. Using the combined identification number for HOUSEID and PERSONID, one can identify trips taken by that person in the Travel Day file. In this case, HOUSEID and PERSONID combined is the common identification needed to merge the Travel-Day and Person files.

In layman's language, the computer is first instructed to "grab" the variable WKFMHM2M, which holds the data on whether the respondent occasionally telecommutes, along with the associated HOUSEID and PERSONID variables from the Person file. Next, the computer is instructed to identify from the Travelday file all trips that are taken by that person i.e., having the same combined HOUSEID and PERSONID identification number.

Finally, the computer is told to "match" information on occasional telecommuting to the travel-day trips based on the combined HOUSEID and PERSONID identification number.

WHICH WEIGHT TO USE

After the files are successfully merged, the next question in using the merged file is which weighting factor to use. In our example, there is a weighting factor in the Person file and one in the Travelday file. Chapter 3-G describes the calculations of the different weights in the NPTS. In essence, a weighting factor expands the sample data to a population from which the sample is selected. Thus, a household weight indicates the number of households with similar characteristics in the overall population that are represented by the sampled household.

For example, a household with a weight of 100 means that it represents itself and 99 other households of similar characteristics that were not sampled for the survey. This implies that these 99 households have travel patterns that are similar to those of the sampled household. One purpose of a sample design is to ensure that such similarity is maximized.

The rule in deciding which weight to use depends on the unit (e.g., households, persons, vehicles, or trips) on which the analysis is performed. For example, if an analysis is to be performed on a collection of trips, then the trip is the unit and the trip weight should be used. On the other hand, if an analysis is to be performed on a set of vehicles, then the vehicle is the unit and the vehicle weight should be used. In the above example, number of daily trips by telecommuting status, the main interest is on the trips, the individual trip is the unit and thus the trip weight is the appropriate factor.

Another way to explain this, using our example is:

Distribution of Persons by Telecommuting Status and Number of Daily Trips - Hypothetical Data

| Tele- commute Status | 0-4 daily trips | 5-9 daily trips | 10 or more daily trips | All |
|----------------------------|--------------------|--------------------|------------------------|--------|
| Sometime | 45.9 % | 38.9% | 15.6% | 100.0% |
| Never | 56.7 | 33.7 | 9.6 | 100.0 |
| Total | 54.9 | 34.2 | 10.9 | 100.0 |

In this example, the row data on telecommuting frequency is from the Person file, and the column data, number of daily trips, is computed from the travel day file. The determining factor in which weight to apply is always "where does the cell data come from?". For this example, the cell data is percent of persons, which is from the person file, and the person weight, WTPERFIN, is the correct weight to apply.

5-H. SPECIAL USER NOTES

DATA FILE CONVEN-TIONS

There are a number of conventions followed throughout the NPTS data files. These are also listed in **Appendix J**, Documentation Notes, and they include:

Yes/No questions - coded as 01 = yes and 02 = no.

Calendar Dates - separate variables were constructed for the month, day and year of reported dates.

Times - all reported time variables are in military time from 0000 to 2359.

Legitimate skip codes - questions intentionally skipped in the instrument were generally denoted by a field filled with 9's with a 4 in the last digit.

Don't know - responses of don't know or not ascertained were generally denoted by a field filled with 9's with an 8 in the last digit.

Refused - responses of refused were generally denoted by a field completely filled with 9's

Survey weights - there is one only one weight variable on each file. It is the weight that is appropriate for use in preparing tabulations of data from that file.

ADDING TRAVEL DAY AND TRAVEL PERIOD DATA

Special procedures must be followed for adding the data from Travel Day and Travel Period. See Section 4-B for a description of the relationship between these two files.

If the respondent took a trip of 75 miles or more and returned

home on Travel Day, that trip will be collected in both the travel day and the travel period sections of the questionnaire. Note that, for travel period trips, it does not matter when the outgoing portion of the trip took place, the return trip must be made during the 14-day travel period. And the trip will be collected twice only for the travel that took place on the travel day.

Because of the difference in the definition of travel day and travel period trips, it is likely that the long-distance travel will be one trip on the travel period file, but will be counted as several trips on the travel day file. The variable, OVERLAP, will identify which travel day trips are part of the long trip reported in the travel period file.

To run a combined estimate, run the travel day file omitting the OVERLAP trips, and combine that result with all trips from the travel period file.

ESTIMATES OF VMT FROM THE 1995 NPTS

There are multiple ways of computing vehicle miles of travel (VMT) from the 1995 NPTS. Which one is used for a specific analysis should depend on the nature of that analysis. For many data inquiries, more than one way would be appropriate. The intent of this subsection is to make the data users aware of the various ways VMT estimates can be made, which are:

- travel day
- travel day plus travel period
- travel day plus travel period plus commercial driving
- annual estimate of driver miles
- annual estimate of vehicle miles
- annualized estimate of odometer readings

FHWA will be conducting analysis of the differences in the estimates derived from each of these sources.

CHAPTER 6. 1995 NPTS RESULTS

6-A. COMPARABILITY OF 1995 RESULTS WITH EARLIER NPTSs

CHANGES IN TRAVEL BETWEEN 1990 AND 1995 It is important that the data user not attempt to directly compare the data on daily travel from the 1995 NPTS with the 1990 or any of the earlier NPTSs.

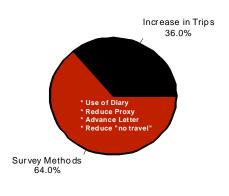
When comparing the 1995 and 1990 NPTS datasets directly, there is nearly an increase of about 1.1 trips per person per day in 5 years, or 35% increase (3.1 trips in 1990 compared to 4.2 trips in 1995). However, much of this apparent increase is due to changes in survey methods. We estimate that one-third of this increase is a real increase in travel, and two-thirds due to changes in survey methods implemented in the 1995 survey. That is, between 1990 and 1995, daily person trips increased from 3.8 trips to 4.2 trips. By comparing the 1990 and 1995 NPTS data to regional data, we estimate that an increase of 0.4 trips per person per day can be attributed to "real" increases in travel, and 0.7 trips per day are attributable to changes in survey methods. Thus, to make 1990 NPTS more comparable to 1995 NPTS, the 1990 overall trip rates should increase by 22%. The remainder of this section describes the basis for these adjustments to the 1990 data.

NPTS Trip Rates

(1990 with and without Adjustment)

Change in Daily Trips per Person

1990-1995



METHOD OF COMPARISON

Step 1. Using regional data sets from approximately the same time period.

Six regional travel surveys for 1990 were used in the analysis, and seven different regional surveys were used for 1995 data. Data for these cities was extracted from the 1990 and 1995 NPTS for comparison.

Step 2. Making the data sets comparable

Several controls were established to reduce the possible impact of differences in survey implementation, between the various regional data sets, and with the NPTS. These controls, which were placed on the regional data sets and the NPTS, included:

- Travel days Monday through Friday only
- Persons age 5 and over
- Bike and walk trips included ONLY if traveling to/from work
- People who made no trips were excluded
- Proxy reports excluded (when identifiable)
- Travel reported within 3 days of assigned travel day (when identifiable).

Step 3. Calculating daily trips rates per person- total and by trip purpose.

Using these controlled datasets, the 1990 NPTS daily person trip rate is slightly lower than the 1990 regional data. In 1995, the reverse is true. When the data were controlled by the attributes listed above, NPTS shows an increase of 0.6 daily person trips per person between 1990 and 1995. With the same controls in place, the regional datasets show an increase of 0.4 trips per person over the same time.

Step 4. Adjusting for the difference.

Overall, to adjust for total trips, it is estimated that the 1990 trips should be increased by 22% to account for the difference in survey methods. NOTE: When using the datasets with the

controls in place an adjustment of 0.5 daily trips per person is sufficient. However, once the controls are removed a 22% increase in the 1990 NPTS is required.

IMPACT OF TRIP PURPOSE

The accuracy of trip reporting varies by trip purpose. Typically, important trips, such as to work or school, are less likely to be forgotten even when a diary is not used. Thus the 1990 NPTS, which was conducted from memory, has good coverage of home to work trips. Less important trips, such as trips to the gas station, dry cleaner, post office, etc. which may be considered incidental are more likely to be forgotten. Therefore, the number of trips directly from home to work or from work to home are overstated, and the non-home and non-work trips are understated. For basic comparisons, one should reduce the 1990 NPTS home-based Work trips, and increase both the home-based non-work trips and the non-home-based trips.

| Trip purpose | Percent change | 1990 daily trips per person | 1990 adjusted daily trips |
|---------------------|--------------------|-----------------------------------|---------------------------------|
| Home-based Work | Decrease by 14% | 0.87 | 0.75 |
| Home-based Other | Increase by 19% | 1.60 | 1.91 |
| Non-home based | Increase by 55% | 0.73 | 1.13 |
| Total | | 3.2 | 3.8 |

In the 1995 NPTS, which used a diary, there is a dramatic increase in the number of non-home-based trips, such as trips from work to shopping or personal errands, before going home. Concurrently, there is a decrease in the number of home-based work trips. Again, this indicates that people were more likely in 1990 to report a trip made directly from work to home, rather than reporting that they stopped along the way before returning home. Note that people are more likely to make stops on the way home from work, compared to making stops on the way to work.

(Reference: 1990 NPTS, Strathman and Dueker, "Understanding Trip Chaining".)

The most significant difference is that in 1990, the NPTS reports many more home-based work trips relative to the number of nonhome-based trips. In 1995, the results are much more similar to the data collected in regional surveys all over the country.

FOR MORE DETAIL AND FURTHER ANALYSIS

A copy of the full report on this comparison of trip rates can be obtained from FHWA, NPTS User Support (see below).

FHWA will also be conducting and publishing further analysis of how to adjust 1990 NPTS data, so that it can be compared with 1995 NPTS results without the change in survey methods skewing the results. This analysis will cover trips and travel by major mode and major purpose. Data users on the FHWA mailing list will be issued updates to this User's Guide, or the reader may contact either the NPTS Website at:

http://www-cta.ornl.gov/npts

or NPTS Data User Support, FHWA voice 202-366-5026, fax 202-366-7742 OHIM.gatekeeper@fhwa.dot.gov.

APPENDIX A 1995 NPTS CONTROL NUMBERS

There are two kinds of control numbers contained in this Appendix. The first control numbers are those that were used to expand the sample to the total population, e.g. households by region and msa size, persons by age, sex and race. The second set of control numbers, contained on the last page of the Appendix, are the weighted numbers that should be obtained when the data are properly weighted and tabulated. These include vehicles, drivers, workers, person trips and person miles of travel, vehicle trips and vehicle miles of travel.

CONTROL NUMBERS FOR SAMPLE EXPANSION:

Household Weight Sums by Ethnicity

| Hhld weight | COUNT |
|-------------------------|-----------------------------|
| 7,735,000 91,255,000 | 1,735 40,298 |
| 98,990,000 | 42,033 |
| | weight 7,735,000 91,255,000 |

Household Weight Sums by Race

| RACE | Hhld weight | COUNT |
|-------------------|--------------------------|-----------------|
| black nonblack | 11,655,002 87,334,998 | 2,997 39,036 |
| - | 98,990,000 | 42,033 |

| REGION | Hhld weight | COUNT |
|--|--|------------------------------------|
| Northeast Region MidwestRegion South Region West Region | 19,593,000 23,683,013 34,765,980 20,948,007 | 21,163 5,114 11,112 4,644 |
| | 98,990,000 | 42,033 |

Household Weight Sums by Travel Month

| Travel day date (MM) | Hhld weight | COUNT |
|--|---|--|
| Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec | 8,249,171 8,249,165 8,249,167 8,249,170 8,249,168 8,249,169 8,249,165 8,249,166 8,249,168 8,249,168 8,249,168 | 2,598 3,691 4,770 3,812 4,827 3,723 3,166 2,531 2,833 3,305 3,400 3,377 |
| : | 98,990,000 | 42,033 |

Household Weight Sums by MSA Size

| MSA SIZE | Hhld weight | COUNT |
|--|--|------------------------------------|
| msa 2.5M+ msa 1M - 2.5M msa < 1M not in msa | 32,810,839 17,961,022 27,822,102 20,396,037 | 10,852 6,404 18,707 6,070 |
| | 98,990,000 | 42,033 |

Household Weight Sums by **HHId Size**

| HHSIZE | Hhld weight | COUNT |
|-------------------|--|------------------------------------|
| 1 2 3 4+ | 24,732,000 31,834,000 16,827,000 25,597,000 | 8,219 15,263 7,392 11,159 |
| | 98,990,000 | 42,033 |

Person Weight Sums by **Ethnicity of Respondent**

| ETHNIC | Person weight | COUNT |
|----------------------|---------------------------|-----------------|
| Hispanic NonHisp. | 23,888,001 217,786,999 | 4,322 91,038 |
| | 241,675,000 | 95,360 |

Person Weight Sums by Race of Respondent

| RACE | Person weight | COUNT |
|-------------------|---------------------------|--------|
| black nonblack | 30,001,008 211,673,992 | • |
| | 241,675,000 | 95,360 |

Person Weight Sums by Age and Gender of Respondent

| Respondent Age person sex Category | | Person weight | COUNT | |
|---------------------------------------|--------|--|--------|--|
| male | 05-17 | 25,690,000 | 10,159 | |
| | 18-34 | 33,083,000 | 10,049 | |
| | 35-44 | 20,968,000 | 8,481 | |
| | 45-64 | 24,893,000 | 10,942 | |
| | 65+ | 13,002,000 | 5,528 | |
| | | | | |
| | male | 17,636,000 | 45,159 | |
| female | 05-17 | 24,531,000 | 9,677 | |
| | 18-34 | 33,356,000 | 11,563 | |
| | 35-44 | 21,361,000 | 9,513 | |
| | 45-64 | 26,544,000 | 12,285 | |
| | 65+ | 18,247,000 | 7,163 | |
| | | | | |
| | female | 124,039,000 | 50,201 | |
| | | ====================================== | 95,360 | |

Person Weight Sums by Region

| REGION | Person weight | COUNT |
|--|--|------------------|
| North East Region North Central Region South Region West Region | 47,522,003 56,600,031 84,786,949 52,766,017 | 11,703 24,862 |
| | 241,675,000 | 95,360 |

Person Weight Sums by Travel Month

Person

| MONTH | weight | COUNT |
|-------|-------------|--------|
| Jan | 20,139,591 | 5,771 |
| Feb | 20,139,591 | 8,449 |
| Mar | 20,139,593 | 10,767 |
| Apr | 20,139,580 | 8,269 |
| May | 20,139,583 | 10,974 |
| Jun | 20,139,578 | 8,500 |
| Jul | 20,139,587 | 7,243 |
| Aug | 20,139,572 | 5,860 |
| Sep | 20,139,581 | 6,313 |
| Oct | 20,139,582 | 7,682 |
| Nov | 20,139,585 | 7,760 |
| Dec | 20,139,575 | 7,772 |
| | ======== | ====== |
| | 241,675,000 | 95,360 |

CONTROL TOTALS FOR CHECKING OUTPUT:

| Variable | Sample Size | Weighted Sum * | 95% Confidence Interval Estimate*** (Units=000) | File Processed | Comments (Variable names are capitalized) |
|--|----------------|-------------------|--|-------------------|---|
| Households | 42,033 | 98,990,000 | 98,329 to 99,651 | Household | Sum over WTHHFIN |
| Persons | 95,360 | 241,675,000 | 239,113 to 244,237 | Person | Sum over WTPERFIN |
| Household Vehicles | 75,217 | 176,066,660 | 174,411 to 177,722 | Vehicle | Sum over WTHHFIN |
| Drivers ** | 69,990 | 176,798,290 | 175,186 to 178,410 | Person | Sum over WTPERFIN where DRIVER="01" |
| Workers ** | 51,928 | 131,697,367 | 130,381 to 133,014 | Person | Sum over WTPERFIN where WORKER="01" |
| TRAVEL DAY: Person Trips | 409,025 | 378,930,363,336 | 373,823,600 to 384,037,120 | Travel Day | Sum over WTTRDFIN |
| Person Miles of Travel (PMT) | 402,298 | 3,411,121,810,000 | 3,313,725,600 to 3,508,518,000 | Travel Day | If TRPMILES=9996 then set TRPMILES=0.06;If TRPMILES=9997 then set TRPMILES=0.50;Then sum over TRPMILES weighted with WTTRDFIN where TRPMILES does not equal 9998 or 9999 |
| Segmented Trips (subset of person trips) | 3,779 | 3,440,664,924 | | Segment | Sum over WTTRDFIN |
| Vehicle Trips (travel day) ** | 250,181 | 229,745,329,785 | 226,830,150 to 232,660,149 | Travel Day | Sum over WTTRDFIN where VTR_FLG="01" See **** below |
| Vehicle Miles of Travel (VMT) ** | | 2,068,368,000,000 | 2,022,487,420 to 2,114,248,580 | Travel Day | If TRPMILES=9996 then set TRPMILES=0.06;If TRPMILES=9997 then set TRPMILES=0.50;Then sum over TRPMILES weighted with WTTRDFIN where TRPMILES does not equal 9998 or 9999 and VTR_FLG="01" See **** below. |

| TRAVEL PERIOD: 29, Person Trips | 29,647 1,996,178,135 | 1,949,858 to 2,042,498 | Travel Period | Sum over WTTRPFIN |
|------------------------------------|----------------------|------------------------|------------------|-------------------|
|------------------------------------|----------------------|------------------------|------------------|-------------------|

- * annual, national estimates
- ** There are slight differences between these estimates and those in Appendix B. See Appendix B Notes on page B-2.
- The end points of a confidence interval are formed by subtracting 2 standard errors from each estimate and adding 2 standard errors to each estimate. For example, the standard error for the number of household vehicles is 828,000, making the 95% Confidence Interval estimate range from 174,411,320 to 177,722,000.
- **** Instead of using VTR_FLG="01", setting DRVR_FLG="01" and TRPTRANS less than or equal to "08" will produce similar results.

WARNING: Do not compare the 1995 data on trips and travel directly to the 1990 NPTS data. See Chapter 6 of this User's Guide.

APPENDIX B STANDARD TABLES AND LOGIC

This appendix contains the commonly-requested tables listed below. For each cell, the table contains the sample size (unweighted number of cases), weighted size, and the standard error of the weighted estimate. Standard errors are more important when sample sizes are smaller. The cells of the tables show the standard errors for subsets of the data. The tables are followed by the logic, in the form of table statements, used to produce them.

| Table 1 - | Number of Households by Household Income and Household Vehicles |
|------------|--|
| Table 2 - | Number of Household Vehicles by Vehicle Age and Type |
| Table 3 - | Number of Persons 5 Years and Older in Households, by Age and Sex |
| Table 4 - | Number of Drivers by Annual Miles Category, Age and Sex |
| Table 5 - | Number of Workers by Work Trip Time and MSA Size |
| Table 6 - | Number of Travel Day Person Trips by Mode and Purpose |
| Table 7 - | Average Number of Travel Day Trips per Person by Age and Sex (NOTE: The rates in this table are per travelling person. Persons who made no travel day trips are excluded from the rates shown here.) |
| Table 8 - | Number of Travel Day Person Miles Travelled by Mode and Purpose |
| Table 9 - | |
| Table 9 - | Number of Travel Day Vehicle Trips by Trip Length Category and Purpose |
| Table 10 - | Number of Travel Day Vehicle Trips by Trip Length Category and Purpose Number of Travel Day Vehicle Miles of Travel by Trip Length Category and Purpose |

Table 12 - Average Vehicle Occupancy by Trip Length and Purpose (NOTE: The rates in this table are computed as POV person trips divided by vehicle trips. A different rate will be obtained if POV person miles are divided by vehicle miles of travel.)

Appendix B Notes

There are some differences between the totals shown in Appendix A, pages A-6 and A-7, and those shown in the Appendix B tables. The reason for the differences in Workers and Drivers is that legitimate skip responses were excluded because they add nothing to the understanding of the data in the Appendix B tables and they result in extraneous records being included in the table totals.

The specific differences and the reasons for them are shown below.

| Variable | Appendix A # | Appendix B # | Reason |
|------------------|-------------------------------------|------------------------------------|---|
| Drivers | n= 69,990 wgt= 176,798,290 | n= 69,876 wgt= 176,330,410 | Appendix A uses all records where DRIVER=01 Appendix B uses DRIVER=01 and YEARMILE not equal 999994 (legitimate skip) |
| Workers | n= 51,928 wgt= 131,697,367 | n= 46,679 wgt= 117,746,380 | Appendix A uses all workers (WORKER=01) Appendix B table presents workers by travel time and MSA size, and excludes 5,249 workers for whom travel time was legitimately skipped (TIMETOWK=994) for reasons including work from home and or no fixed place of work |
| Vehicle Trips | n= 250,181 wgt = 229,745,329,785 | n= 250,173 wgt= 229,737,860,000 | the Appendix B totals inadvertently omitted 8 trips because their trip distance fell between the categories as defined in the table code, e.g., a trip of 5.2 miles was not included in the <=5 category |
| VMT | wgt= 2,068,368,000,000 | wgt= 2,068,326,640,000 | this difference is the result of the 8 trips inadvertently omitted from the Appendix B table |

APPENDIX C CODEBOOK FOR NPTS PUBLIC USE DATA FILES

Codebook Version Date 9/29/97

This appendix contains information on the variables in each of the NPTS data files. The first line of each page identifies the file being documented. The following is the file order as well as the length of the documentation:

Household 64 pages

Person 52 pages

Vehicle 18 pages

Travel Day 30 pages

Segment 16 pages

Travel Period 20 pages

Pagination restarts at one for each file. The information on each variable is intended to be view across two pages. The columns of the left hand page are:

Target Variable This is the variable name.

Variable Type 'N"indicates the data is numeric

"C"indicates character (alphanumeric) data

Width This is the maximum number of characters for the variable. If

a numeric variable has decimals, the number of allowable

decimal places is shown after the total number of

characters. For example, and entry of 6.1 would mean that

six characters are allowed and the last character is in

tenths.

1990 Var "N"indicates a new variable,

'S"indicates that the same variable name is used as in

1990.

"(asterisk) is used if the 1995 variable has no comparable

1990 variable, and

If a variable name is shown, identifies the 1990 variable

similar to this one.

Variable Label Provides a short explanation of what the variable describes.

Section and Item ID Together the Section and Item ID document the survey

section and question that was the source of the data. Other

possible entries include:

CLAR Tract and block group characteristics

purchased from Claritas, Inc. (See Appendix L)

OAKR Product of Oak Ridge National Lab (e.g.

annualized odometer readings)

*" An asterisk notes a value derive from data

collected on the questionnaire or another source, such as the sampling frame or the

geocoding process

On the second page, the following columns appear:

Target Variable This is the variable name.

Value Range and Codes The legitimate data entries are identified. If special codes

are used, they are also identified and defined.

Freqs For each item identified in the column Value Range and

Codes, the frequency of its occurrence is documented.

Comments Provides additional details on the variable.

The following pages of this appendix are best displayed and/or printed as Courier set to 7 points and the text left justified.

| Variable: | | | | Variable Label: | | Item ID: |
|---------------|---|-----|---|---------------------------------|------|----------|
| | | | | Reported dist. to bus (blocks) | | |
| BUSMILE | N | 3 | N | Reported dist. to bus (miles) | С | 2.2 |
| BUS_AVL | С | 2 | N | Bus service available | С | 1 |
| BUS_DIST | N | 5.1 | N | Distance to bus (miles) | С | 2.1 |
| CENSUS_D | С | 2 | S | Census division | * | * |
| | | | | | | |
| CENSUS_R | С | 2 | S | Census region | * | * |
| DRVRCNT | N | 2 | S | Number of drivers in HH | D | * |
| | | | | | | |
| GHMXIN | N | 2 | * | Basis for geocoding - household | GEOH | * |

Progid: disk46:[wmynpts.pubfiles]cbrp_hh.sas Date: 23SEP97

02= Middle Atlantic

03= East North Central 04= West North Central

13:53 Tuesday, September 23, 1997 2 Target Variable Value Range and Codes: Freqs: Comments: BUSBLOCK (1 - 100) 10,568 Blocks as reported 994= Legitimate skip 24,637 996= < 1 block 5,568 998= Not ascertained 1,245 999= Refused 15 BUSMILE (1 - 100) 6,545 Miles as reported 30,749 3,479 994= Legitimate skip 997= Half a mile 998= Not ascertained 1,245 999= Refused 15 BUS_AVL 01= Yes 27,420 02= No 13,791 94= Legitimate skip 98= Not Ascertained 816 99= Refused 6 26,160 Miles as reported, blocks converted (9/mile) BUS_DIST (0 - 100) 994= Legitimate skip 998= Not ascertained 14,613 1,245 999= Refused CENSUS_D 01= New England 8,373

12,790

3,636 1,478

| | 05= South Atlantic 06= East South Central 07= West South Central 08= Mountain 09= Pacific | 4,065 1,174 5,873 1,104 3,540 | |
|--------------|--|---|----------------------------------|
| CENSUS_R | 01= Northeast 02= North Central 03= South 04= West | 21,163 5,114 11,112 4,644 | |
| DRVRCNT 1 | 0 2 3 4 5 6 7 | 2,118 11,390 22,956 4,249 1,136 155 26 3 | Derived from the variable DRIVER |
| GHMXIN | Address not geocoded 0= Address match 2= Zip + 2 match 4= Zip + 4 match 5= Five digit zip centroid | 333 35,800 947 1,049 3,904 | |

Progid: disk46:[wmynpts.pubfiles]cbrp_hh.sas Date: 23SEP97

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Target Var Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID: HBHHSMLT N 3 * Percent multiple unit housing, BG * CLAR * CLAR * HBHHSOTH N 3 * Percent other housing, BG HBHHSSNG N 3 * Percent single family housing, BG CLAR * HBHINCH N 3 * Percent HHs, income \$60000 and up, BG CLAR *

Progid: disk46:[wmynpts.pubfiles]cbrp_hh.sas Date: 23SEP97

Target. Variable Value Range and Codes: Freqs: Comments: HBHHSMLT 0= 0 to 4% 12,508 Variables beginning with HB are external Census block level variables describing the location of the household. 5= 5 to 14% 20= 15 to 24% 8,214 4,595 30= 25 to 34% 3,280 40= 35 to 44% 2,898 50= 45 to 54% 2,231 60= 55 to 64% 1,885 70= 65 to 74% 1,558 80= 75 to 84% 1,431 90= 85 to 94% 1,548 95= 95 to 100% 1,552 998= Not ascertained 333 40,777 $\tt HBHHSOTH$ 0= 0 to 4% 5= 5 to 14% 20= 15 to 24% 30= 25 to 34% 851 49 16 40= 35 to 44% 1 50= 45 to 54% 4 60= 55 to 64% 70= 65 to 74% 80= 75 to 84% 0 90= 85 to 94% 95= 95 to 100% 0 998= Not ascertained 333 HBHHSSNG 0= 0 to 4% 5= 5 to 14% 1.674 1,515 20= 15 to 24% 1,425 30= 25 to 34% 1,552 40= 35 to 44% 1,924 50= 45 to 54% 2,225 60= 55 to 64% 2,857 70= 65 to 74% 3,296 80= 75 to 84% 4,618 90= 85 to 94% 7,948 95= 95 to 100% 12,666 998= Not ascertained 333 HBHINCH 0= 0 to 4% 2,751 5= 5 to 14% 10,231 20= 15 to 24% 9,414 30= 25 to 34% 7,283 40= 35 to 44% 4,751 50= 45 to 54% 3,413 60= 55 to 64% 2,032 70= 65 to 74% 1,156 80= 75 to 84% 508 90= 85 to 94% 148 95= 95 to 100%

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| | | | | Variable Label: | | Item ID: |
|------------------------|---|---|---|--|------|----------|
| HBHINCH HBHINCL | N | 3 | * | Percent HHs, income \$60000 and up, BG Percent HHs, income < \$15000, BG | CLAR | * |
| | | | | | | |
| HBHINCM1 | N | 3 | * | Percent HHs, income \$15000-\$39999, BG | CLAR | * |
| | | | | | | |
| HBHINCM2 | N | 3 | * | Percent HHs, income \$40000-\$59999, BG | CLAR | * |
| | | | | | | |
| HBHINMED | N | 6 | * | Median household income, BG | CLAR | * |

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| | | | | (This page revised March 1999) |
|----------|--|----------|-----------|--------------------------------|
| | Value Range and Codes: | | Comments: | |
| | 998= Not ascertained | 333 | | |
| | 990- NOC ascertained | 333 | | |
| HBHINCL | 0= 0 to 4% | 4,638 | | |
| | 5= 5 to 14% | 15,531 | | |
| | 20= 15 to 24% | 11,142 | | |
| | 30= 25 to 34% | 5,597 | | |
| | 40= 35 to 44% | 2,664 | | |
| | 50= 45 to 54% | 1,116 | | |
| | 60= 55 to 64% | 617 | | |
| | 70= 65 to 74% | 267 | | |
| | 80= 75 to 84% | 87 | | |
| | 90= 85 to 94% | 27 | | |
| | 95= 95 to 100% | 14 | | |
| | 998= Not ascertained | 333 | | |
| HBHINCM1 | 0= 0 to 4% | 11 | | |
| | 5= 5 to 14% | 244 | | |
| | 20= 15 to 24% | 2,366 | | |
| | 30= 25 to 34% | 6,383 | | |
| | 40= 35 to 44% | 11,154 | | |
| | 50= 45 to 54% | 12,755 | | |
| | 60= 55 to 64% | 7,065 | | |
| | 70= 65 to 74% | 1,525 | | |
| | 80= 75 to 84% | 168 | | |
| | 90= 85 to 94% | 28 | | |
| | 95= 95 to 100% | 1 | | |
| | 998= Not ascertained | 333 | | |
| HBHINCM2 | 0= 0 to 4% | 3 | | |
| | 5= 5 to 14% | 803 | | |
| | 20= 15 to 24% | 7,595 | | |
| | 30= 25 to 34% | 19,915 | | |
| | 40= 35 to 44% | 11,669 | | |
| | 50= 45 to 54% | 1,591 | | |
| | 60= 55 to 64% | 104 | | |
| | 70= 65 to 74% | 13 | | |
| | 80= 75 to 84% | 3 | | |
| | 90= 85 to 94% | 1 | | |
| | 95= 95 to 100% 998= Not ascertained | 3 333 | | |
| | | | | |
| HBHINMED | 15,000= 0 to 20K | 3,387 | | |
| | 22,000= 20K to 25K | 3,667 | | |
| | 27,000= 25K to 30K | 5,086 | | |
| | 32,000= 30K to 35K | 5,755 | | |
| | 37,000= 35K to 40K | 5,093 | | |
| | 45,000= 40K to 50K | 8,395 | | |
| | 60,000= 50K to 70K | 7,805 | | |
| | 80,000= 70K to 999K | 2,512 | | |
| | 999998= Not ascertained | 333 | | |

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| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-------------------------|--------------|--------|-----------|---------------------------------------|----------|----------|
| | | | * | Median housing unit value, BG | | |
| HBHRECNT | N | 3 | * | Percent units built last 10 years, BG | CLAR | * |
| HBHRESDN | N | 6 | * | HU density (units/square mile), BG | CLAR | * |
| HBHTNOWN | N | 3 | * | Percent owner-occupied housing, BG | CLAR | * |
| | | | | | | |
| HBHTNRNT | N | 3 | * | Percent renter-occupied housing, BG | CLAR | * |

| | Value Range and Codes: | | Comments: |
|----------|-------------------------|--------|-----------|
| | | | |
| HBHMEDHS | 30000= 0 to 50K | 4,995 | |
| | 60000= 50K to 70K | 5,883 | |
| | 85000= 70K to 100K | 8,798 | |
| | 125000= 100K to 150K | 10,102 | |
| | 175000= 150K to 200K | 6,396 | |
| | 300000= 200K to 999K | 5,526 | |
| | 999998= Not ascertained | 333 | |
| HBHRECNT | 0= 0 to 4% | 18,198 | |
| | 5= 5 to 14% | 12,755 | |
| | 20= 15 to 24% | 5,796 | |
| | 30= 25 to 34% | 2,349 | |
| | 40= 35 to 44% | 1,202 | |
| | 50= 45 to 54% | 577 | |
| | 60= 55 to 64% | 337 | |
| | 70= 65 to 74% | 220 | |
| | 80= 75 to 84% | 122 | |
| | 90= 85 to 94% | 88 | |
| | 95= 95 to 100% | 56 | |
| | 998= Not ascertained | 333 | |
| HBHRESDN | 25= 0 to 50 | 5,815 | |
| | 150= 50 to 250 | 6,730 | |
| | 700= 250 to 1000 | 9,109 | |
| | 2000= 1000 to 3000 | 11,873 | |
| | 4000= 3000 to 5000 | 3,626 | |
| | 6000= 5000 to 999K | 4,547 | |
| | 999998= Not ascertained | 333 | |
| HBHTNOWN | 0= 0 to 4% | 813 | |
| | 5= 5 to 14% | 1,074 | |
| | 20= 15 to 24% | 1,375 | |
| | 30= 25 to 34% | 2,032 | |
| | 40= 35 to 44% | 2,319 | |
| | 50= 45 to 54% | 3,123 | |
| | 60= 55 to 64% | 3,885 | |
| | 70= 65 to 74% | 5,905 | |
| | 80= 75 to 84% | 8,997 | |
| | 90= 85 to 94% | 9,837 | |
| | 95= 95 to 100% | 2,340 | |
| | 998= Not ascertained | 333 | |
| HBHTNRNT | 0= 0 to 4% | 1,678 | |
| | 5= 5 to 14% | 9,432 | |
| | 20= 15 to 24% | 9,377 | |
| | 30= 25 to 34% | 6,113 | |
| | 40= 35 to 44% | 4,011 | |
| | 50= 45 to 54% | 3,215 | |
| | 60= 55 to 64% | 2,355 | |
| | 70= 65 to 74% | 2,122 | |
| | 80= 75 to 84% | 1,393 | |
| | 90= 85 to 94% | 1,128 | |

Target Var

| Variable: | Type: | Width: | | Variable Label: | Section: | Item ID: |
|---------------|-------|--------|---|--|----------|----------|
| HBHTNRNT | N | 3 | * | Percent renter-occupied housing, BG | CLAR | * |
| HBHUR | С | 1 | * | Urban/rural code, block group | CLAR | * |
| нвр65р | N | 3 | * | Percent 65 & older, block group | CLAR | * |
| HBPCOLGD | N | 3 | * | Pcnt Colg Grads(over 25), block group | CLAR | * |
| HBPFORBN | N | 3 | * | Percent foreign born 1990, block group | CLAR | * |
| HBPHISP | N | 3 | * | Percent Hispanic, block group | CLAR | * |

| Target | Value Range and Codes: | Eroga: | Commont a: |
|----------|---------------------------------|--------------|------------|
| | varue kange and codes: | | Comments: |
| | 95= 95 to 100% | 876 | |
| | 998= Not ascertained | 333 | |
| | | | |
| HBHUR | 8= Not ascertained | 333 | |
| | C= Second city | 8,811 | |
| | R= Rural | 6,669 | |
| | S= Suburban | 10,017 | |
| | T= Town | 10,243 | |
| | U= Urban | 5,960 | |
| HBP65P | 0= 0 to 4% | 2,866 | |
| | 5= 5 to 14% | 23,257 | |
| | 20= 15 to 24% | 12,313 | |
| | 30= 25 to 34% | 2,437 | |
| | 40= 35 to 44% | 502 | |
| | 50= 45 to 54% | 188 | |
| | 60= 55 to 64% | 54 | |
| | 70= 65 to 74% | 28 | |
| | 80= 75 to 84% 90= 85 to 94% | 27 27 | |
| | 90= 85 to 94% 95= 95 to 100% | 1 | |
| | 998= Not ascertained | 333 | |
| | JJO- NOE ascertained | 333 | |
| HBPCOLGD | 0= 0 to 4% | 771 | |
| | 5= 5 to 14% | 6,982 | |
| | 20= 15 to 24% | 10,476 | |
| | 30= 25 to 34% | 8,984 | |
| | 40= 35 to 44% | 6,314 | |
| | 50= 45 to 54% | 3,928 | |
| | 60= 55 to 64% 70= 65 to 74% | 2,463 | |
| | 80= 75 to 84% | 1,253 424 | |
| | 90= 85 to 94% | 89 | |
| | 95= 95 to 100% | 16 | |
| | 998= Not ascertained | 333 | |
| | | | |
| HBPFORBN | 0= 0 to 4% | 23,594 | |
| | 5= 5 to 14% | 13,070 | |
| | 20= 15 to 24% | 2,828 | |
| | 30= 25 to 34% | 1,162 | |
| | 40= 35 to 44% | 541 | |
| | 50= 45 to 54% | 270 | |
| | 60= 55 to 64% 70= 65 to 74% | 149 70 | |
| | 80= 75 to 84% | 15 | |
| | 90= 85 to 94% | 1 | |
| | 95= 95 to 100% | 0 | |
| | 998= Not ascertained | 333 | |
| | | 333 | |
| HBPHISP | 0= 0 to 4% | 30,560 | |
| | 5= 5 to 14% | 6,966 | |
| | 20= 15 to 24% | 1,693 | |

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1NPTS Household File Code Book - Public Use

Target Var
Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID:

HBPHISP N 3 * Percent Hispanic, block group CLAR *

HBPHSCD N 3 * Pent HS grads (over 25), block group CLAR *

HBPLTPOV N 3 * Percent families below poverty, blk grp CLAR *

HBPPOPNO N 6 * Current population, block group CLAR *

333

Progid: disk46:[wmynpts.pubfiles]cbrp_hh.sas Date: 23SEP97

999998= Not ascertained

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1NPTS Household File Code Book - Public Use

Target Var

Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID:

HBPRCAA N 3 * Percent African-Am., block group CLAR *

HBPRCASN N 3 * Percent Asian- Am., block group CLAR *

HBPRCCAU N 3 * Percent White, block group CLAR *

HBPRCOTH N 3 * Percent Other races, block group CLAR *

4

2

3

333

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80= 75 to 84%

90= 85 to 94%

95= 95 to 100%

998= Not ascertained

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1NPTS Household File Code Book - Public Use

Target Var
Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID:

HHCMSA C 4 SMSA CMSA identification code * *

HHELGCNT N 2 S # of eligible persons in HH D 3

HHFAMINC C 2 S HH family income category K 1 & 2

Target.

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1NPTS Household File Code Book - Public Use

| Target Variable: | | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|---|--------|-----------|-------------------------------|----------|----------|
| HHMSA | С | 4 | s | MSA identification code | * | * |
| HHRESP | С | 2 | N | HH respondent | D | 13 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HHSIZE | N | 2 | S | Total number of persons in HH | D | 1 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HHSTATE | С | 2 | S | State postal code | * | * |
| | | | | | | |

| | Value Range and Codes: | | Comments: |
|---------|---------------------------------------|------------|--|
| | (0520-8840) | | |
| HHRESP | 1 | 27.878 | Person number of household respondent |
| | 2 | 12,483 | |
| | 3 | 1,242 | |
| | 4 | 328 | |
| | 5 | 76 | |
| | 6 | 19 | |
| | 7 | 6 | |
| | 8 | 1 | |
| | 9 | 0 | |
| | 10 | 0 | |
| | Not ascertained | 0 | |
| | Refused | 0 | |
| HHSIZE | 1 | 8,219 | Number of persons - all ages (derived) |
| | 2 | 15,263 | |
| | 3 | 7,392 | |
| | 4 | 7,043 | |
| | 5 | 2,852 | |
| | 6 7 | 873 247 | |
| | 8 | 85 | |
| | 9 | 33 | |
| | 10 | 26 | |
| HHSTATE | State population < 2 million | 1,513 | |
| | 94= Legitimate skip (Foreign Country) | 0 | |
| | 98= Not ascertained | 0 | |
| | 99= Refused | 0 | |
| | Alaska | 0 | |
| | Alabama | 308 | |
| | Arkansas | 227 | |
| | Arizona | 274 | |
| | California | 2,262 | |
| | Colorado | 272 | |
| | Connecticut District of Columbia | 225 0 | |
| | Delaware | 0 | |
| | Florida | 1,129 | |
| | Georgia | 582 | |
| | Hiwaii | 0 | |
| | Iowa | 236 | |
| | Idaho | 0 | |
| | Illinois | 1,093 | |
| | Indiana | 465 | |
| | Kansas | 205 | |
| | Kentucky | 261 | |
| | Louisiana | 354 | |
| | Massachusetts | 7,801 | |
| | Maryland | 542 | |
| | Maine | 0 | |
| | | | |

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Target Var
Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID:

HHSTATE C 2 S State postal code (See Appendix N for detail) *

HHSTFIPS N 2 S State FIPS code *

HHVEHCNT N 2 S No. of vehicles in household (derived) B $^{*}$

HH_OTO4 N 2 S Number of persons in HH age 0-4 C 3

| | Value Range and Codes: | | Comments: |
|------------|------------------------|--------|---|
| | | | |
| | Michigan | 671 | |
| | Minnesota | 380 | |
| | Missouri | 393 | |
| | Mississippi | 174 | |
| | Montana | 0 | |
| | North Carolina | 623 | |
| | North Dakota | 0 | |
| | Nebraska | 0 | |
| | Hew Hampshire | 0 | |
| | New Jersey | 616 | |
| | New Mexico | 0 | |
| | Nevada | 0 | |
| | New York | 11,004 | |
| | Ohio | 932 | |
| | Oklahoma | 4,073 | |
| | Oregon | 327 | |
| | Pennsylvania | 1,170 | |
| | Rhode Island | 0 | |
| | South Carolina | 317 | |
| | South Dakota | 0 | |
| | Tennessee | 431 | |
| | Texas | 1,219 | |
| | Utah | 0 | |
| | Virginia | 613 | |
| | Vermont | 0 | |
| | Washington | 866 | |
| | Wisconsin | 475 | |
| | West Virginia | 0 | |
| | Wyoming | 0 | |
| HHSTFIPS | (1 - 55) | 42,033 | |
| HHVEHCNT | 0 | 3,343 | Count of all vehicles for the household |
| INIVENIENT | 1 | 12,678 | count of all valieted for the household |
| | 2 | 18,277 | |
| | 3 | 5,716 | |
| | 4 | 1,488 | |
| | 5 | 378 | |
| | 6 | 104 | |
| | 7 | 31 | |
| | 8 | 10 | |
| | 9 | 6 | |
| | 10 | 2 | |
| | 10 | 2 | |
| нн_0то4 | 0 | 35,968 | Number of persons in the household who are under 5 years of age |
| | 1 | 4,526 | |
| | 2 | 1,399 | |
| | 3 | 132 | |
| | 4 | 6 | |
| | 5 | 2 | |

Target Var

| | | | | Variable Label: | | Item ID: |
|----------|---|---|---|------------------------------------|------|----------|
| | | | | Hispanic status of ref. person | | |
| HH_RACE | С | 2 | S | Race of reference person | D | 6 |
| HOMEOWN | С | 2 | N | Tenure of housing unit | С | 8 |
| HOMETYPE | С | 2 | N | Type of housing unit | С | 6 |
| | | | | | | |
| HOUSEID | N | 8 | S | Household identification number | * | * |
| HSTORIES | С | 2 | N | Stories in apt. building | С | 7 |
| HTEEMPDN | N | 6 | * | Jobs per square mile, census tract | CLAR | * |
| HTHHSMLT | N | 3 | * | Percent multiple unit housing, CT | CLAR | * |

Target.

4,824

Progid: disk46:[wmynpts.pubfiles]cbrp_hh.sas Date: 23SEP97

30= 25 to 34%

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Var Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID: HTHHSMLT N 3 * Percent multiple unit housing, CT CLAR * HTHHSOTH N 3 * Percent other housing, CT CLAR * HTHHSSNG N 3 * Percent single family housing, CT CLAR *

HTHINCH N 3 * Percent HHs, income \$60000 and up, CT CLAR *

HTHINCL N 3 * Percent HHs, income < \$15000, CT CLAR *

Progid: disk46:[wmynpts.pubfiles]cbrp_hh.sas Date: 23SEP97

Target

333

2,145

15,879 13,433

6,114

998= Not ascertained

0= 0 to 4% 5= 5 to 14% 20= 15 to 24%

30= 25 to 34%

HTHINCL

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1NPTS Household File Code Book - Public Use

| | | | | Variable Label: | | Item ID: |
|----------|---|---|---|---|------|----------|
| | | | | Percent HHs, income < \$15000, CT | | |
| HTHINCM1 | N | 3 | * | Percent HHs, income \$15000-\$39999, CT | CLAR | * |
| HTHINCM2 | N | 3 | * | Percent HHs, income \$40000-\$59999, CT | CLAR | * |
| HTHINMED | N | 6 | * | Median household income, CT | CLAR | * |

HTHMEDHS N 6 * Median housing unit value, CT CLAR *

| Target | | | |
|---|-------------------------|--------|-----------|
| Variable | Value Range and Codes: | Freqs: | Comments: |
| | | | |
| | | | |
| | 40= 35 to 44% | 2,564 | |
| | 50= 45 to 54% | 946 | |
| | 60= 55 to 64% | 406 | |
| | 70= 65 to 74% | 153 | |
| | 80= 75 to 84% | 39 | |
| | 90= 85 to 94% | 10 | |
| | | | |
| | 95= 95 to 100% | 11 | |
| | 998= Not ascertained | 333 | |
| T T T T T T T T T T T T T T T T T T T | 0 0 1 . 40 | 50 | |
| HTHINCM1 | 0= 0 to 4% | 59 | |
| | 5= 5 to 14% | 1,351 | |
| | 20= 15 to 24% | 5,579 | |
| | 30= 25 to 34% | 11,627 | |
| | 40= 35 to 44% | 16,979 | |
| | 50= 45 to 54% | 5,676 | |
| | 60= 55 to 64% | 360 | |
| | 70= 65 to 74% | 46 | |
| | 80= 75 to 84% | 22 | |
| | 90= 85 to 94% | 1 | |
| | 95= 95 to 100% | 0 | |
| | 998= Not ascertained | 333 | |
| | 998= NOL ascertained | 333 | |
| HTHINCM2 | 0= 0 to 4% | 234 | |
| 111111111111111111111111111111111111111 | 5= 5 to 14% | 5,565 | |
| | 20= 15 to 24% | 25,004 | |
| | | | |
| | 30= 25 to 34% | 10,580 | |
| | 40= 35 to 44% | 312 | |
| | 50= 45 to 54% | 3 | |
| | 60= 55 to 64% | 1 | |
| | 70= 65 to 74% | 1 | |
| | 80= 75 to 84% | 0 | |
| | 90= 85 to 94% | 0 | |
| | 95= 95 to 100% | 0 | |
| | 998= Not ascertained | 333 | |
| | | | |
| HTHINMED | 15,000= 0 to 20K | 2,617 | |
| | 22,000= 20K to 25K | 3,713 | |
| | 27,000= 25K to 30K | 5,367 | |
| | 32,000= 30K to 35K | 6,171 | |
| | 37,000= 35K to 40K | 6,146 | |
| | | | |
| | 45,000= 40K to 50K | 8,607 | |
| | 60,000= 50K to 70K | 7,303 | |
| | 80,000= 70K to 999K | 1,776 | |
| | 999998= Not ascertained | 333 | |
| HTHMEDHS | 30000= 0 to 50K | 4 410 | |
| TIUMEDUS | | 4,412 | |
| | 60000= 50K to 70K | 6,230 | |
| | 85000= 70K to 100K | 8,870 | |
| | 125000= 100K to 150K | 10,233 | |
| | 175000= 150K to 200K | 6,714 | |
| | 300000= 200K to 999K | 5,241 | |
| | 999998= Not ascertained | 333 | |
| | | | |

1NPTS Household File Code Book - Public Use

Target Var
Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID:

HTHRECNT N 3 * Percent units built last 10 years, CT CLAR *

HTHRESDN N 6 * HU density (units/square mile), CT *

HTHTNOWN N 3 * Percent owner-occupied housing, CT CLAR *

HTHUR C 1 * Urban/rural code, census tract CLAR *

| Target | | | |
|---------------|-------------------------|--------|-----------|
| | Value Range and Codes: | | Comments: |
| | | | |
| | | | |
| HTHRECNT | 0= 0 to 4% | 14,725 | |
| | 5= 5 to 14% | 16,468 | |
| | 20= 15 to 24% | 6,739 | |
| | 30= 25 to 34% | 1,952 | |
| | 40= 35 to 44% | 1,028 | |
| | 50= 45 to 54% | 366 | |
| | 60= 55 to 64% | 213 | |
| | 70= 65 to 74% | 104 | |
| | 80= 75 to 84% | 59 | |
| | 90= 85 to 94% | 23 | |
| | 95= 95 to 100% | 23 | |
| | 998= Not ascertained | 333 | |
| | | | |
| HTHRESDN | 25= 0 to 49 | 6,237 | |
| | 150= 50 to 249 | 7,570 | |
| | 700= 250 to 1000 | 9,851 | |
| | 2000= 1000 to 3000 | 11,502 | |
| | 4000= 3000 to 5000 | 2,745 | |
| | 6000= 5000 to 999K | 3,795 | |
| | 999998= Not ascertained | 333 | |
| | | | |
| HTHTNOWN | 0= 0 to 4% | 482 | |
| | 5= 5 to 14% | 886 | |
| | 20= 15 to 24% | 1,174 | |
| | 30= 25 to 34% | 1,794 | |
| | 40= 35 to 44% | 2,269 | |
| | 50= 45 to 54% | 3,308 | |
| | 60= 55 to 64% | 5,192 | |
| | 70= 65 to 74% | 7,959 | |
| | 80= 75 to 84% | 10,778 | |
| | 90= 85 to 94% | 7,060 | |
| | 95= 95 to 100% | 798 | |
| | 998= Not ascertained | 333 | |
| HTHTNRNT | 0= 0 to 4% | 488 | |
| IIIIIIIIIIIII | 5= 5 to 14% | 6,345 | |
| | 20= 15 to 24% | 10,798 | |
| | 30= 25 to 34% | 8,387 | |
| | 40= 35 to 44% | 5,351 | |
| | 50= 45 to 54% | 3,452 | |
| | 60= 55 to 64% | 2,317 | |
| | 70= 65 to 74% | 1,886 | |
| | 80= 75 to 84% | 1,228 | |
| | 90= 85 to 94% | 840 | |
| | 95= 95 to 100% | 608 | |
| | 998= Not ascertained | 333 | |
| | 330 Inde about carried | 555 | |
| HTHUR | 8= Not ascertained | 333 | |
| | C= Second city | 8,549 | |
| | R= Rural | 6,827 | |
| | S= Suburban | 10,179 | |
| | T= Town | 10,139 | |
| | | | |

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| | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-------------------|--------------|--------|-----------|--|--------------|----------|
| HTHUR HTINDRET | C N | 1 | | Urban/rural code, census tract Pct 16+ workplace pop, retl trd ind, CT | CLAR CLAR | * |
| | | | | | | |
| HTP65P | N | 3 | * | Percent 65 & older, census tract | CLAR | * |
| 1111031 | 14 | 3 | | refective of a order, ections crace | CHAIC | |

HTPCOLGD N 3 * Pcnt Colg Grads(over 25), census tract CLAR *

HTPFORBN N 3 * Percent foreign born 1990, census tract CLAR *

| | Value Range and Codes: | | Comments: |
|----------|--------------------------------|----------------|-----------|
| | U= Urban | 6,006 | |
| | 0= Ufball | 6,006 | |
| HTINDRET | 0= 0 to 4% | 2,878 | |
| | 5= 5 to 14% | 13,184 | |
| | 20= 15 to 24% | 12,527 | |
| | 30= 25 to 34% | 7,027 | |
| | 40= 35 to 44% | 3,364 | |
| | 50= 45 to 54% | 1,735 | |
| | 60= 55 to 64% 70= 65 to 74% | 690 211 | |
| | 70= 85 to 74% 80= 75 to 84% | 53 | |
| | 90= 85 to 94% | 31 | |
| | 95= 95 to 100% | 0 | |
| | 998= Not ascertained | 333 | |
| HTP65P | 0= 0 to 4% | 1,850 | |
| | 5= 5 to 14% | 23,460 | |
| | 20= 15 to 24% | 14,440 | |
| | 30= 25 to 34% | 1,562 | |
| | 40= 35 to 44% | 235 | |
| | 50= 45 to 54% | 76 | |
| | 60= 55 to 64% 70= 65 to 74% | 31 14 | |
| | 80= 75 to 84% | 14 | |
| | 90= 85 to 94% | 18 | |
| | 95= 95 to 100% | 0 | |
| | 998= Not ascertained | 333 | |
| HTPCOLGD | | 179 | |
| | 5= 5 to 14% | 6,170 | |
| | 20= 15 to 24% | 11,958 | |
| | 30= 25 to 34% | 9,560 | |
| | 40= 35 to 44% 50= 45 to 54% | 6,685 | |
| | 60= 55 to 64% | 3,678 2,121 | |
| | 70= 65 to 74% | 1,020 | |
| | 80= 75 to 84% | 300 | |
| | 90= 85 to 94% | 24 | |
| | 95= 95 to 100% | 5 | |
| | 998= Not ascertained | 333 | |
| HTPFORBN | 0= 0 to 4% | 22,909 | |
| | 5= 5 to 14% | 13,824 | |
| | 20= 15 to 24% | 2,822 | |
| | 30= 25 to 34% | 1,179 | |
| | 40= 35 to 44% 50= 45 to 54% | 539 219 | |
| | 60= 55 to 64% | 137 | |
| | 70= 65 to 74% | 62 | |
| | 80= 75 to 84% | 8 | |
| | 90= 85 to 94% | 1 | |
| | 95= 95 to 100% | 0 | |
| | | | |

Target Var: Type: Width: 1990 Var: Variable Label: Section: Item ID:

HTPFOREN N 3 * Percent foreign born 1990, census tract CLAR *

HTPHISP N 3 * Percent Hispanic, census tract CLAR *

HTPHSGD N 3 * Pent HS grads (over 25), census tract CLAR *

HTPLTPOV N 3 * Percent families below poverty, cen. tr. CLAR *

HTPPOPNO N 6 * Current population, census tract CLAR *

| | Value Range and Codes: | Freqs: | Comments: |
|----------|-------------------------|--------|-----------|
| | 998= Not ascertained | 333 | |
| | | | |
| HTPHISP | 0= 0 to 4% | 30,074 | |
| | 5= 5 to 14% | 7,308 | |
| | 20= 15 to 24% | 1,770 | |
| | 30= 25 to 34% | 888 | |
| | 40= 35 to 44% | 484 | |
| | 50= 45 to 54% | 337 | |
| | 60= 55 to 64% | 311 | |
| | 70= 65 to 74% | 210 | |
| | 80= 75 to 84% | 159 | |
| | 90= 85 to 94% | 123 | |
| | 95= 95 to 100% | 36 | |
| | 998= Not ascertained | 333 | |
| HTPHSGD | 0= 0 to 4% | 67 | |
| | 5= 5 to 14% | 2,336 | |
| | 20= 15 to 24% | 7,932 | |
| | 30= 25 to 34% | 17,806 | |
| | 40= 35 to 44% | 12,156 | |
| | 50= 45 to 54% | 1,377 | |
| | 60= 55 to 64% | 23 | |
| | 70= 65 to 74% | 1 | |
| | 80= 75 to 84% | 1 | |
| | 90= 85 to 94% | 1 | |
| | 95= 95 to 100% | 0 | |
| | 998= Not ascertained | 333 | |
| HTPLTPOV | 0= 0 to 4% | 14,107 | |
| | 5= 5 to 14% | 20,328 | |
| | 20= 15 to 24% | 4,693 | |
| | 30= 25 to 34% | 1,501 | |
| | 40= 35 to 44% | 659 | |
| | 50= 45 to 54% | 293 | |
| | 60= 55 to 64% | 84 | |
| | 70= 65 to 74% | 21 | |
| | 80= 75 to 84% | 7 | |
| | 90= 85 to 94% | 5 | |
| | 95= 95 to 100% | 2 | |
| | 998= Not ascertained | 333 | |
| HTPPOPDN | 50= 0 to 100 | 5,377 | |
| | 300= 100 to 500 | 7,270 | |
| | 750= 500 to 1K | 4,244 | |
| | 1,500= 1K to 2K | 5,145 | |
| | 3,000= 2K to 4K | 7,185 | |
| | 7,000= 4K to 10K | 8,000 | |
| | 17,000= 10K to 25K | 2,577 | |
| | 35,000= 25K to 999K | 1,902 | |
| | 999998= Not ascertained | 333 | |
| HTPPOPNO | 1500= 0 to 3K | 6,303 | |

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Target Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID:

HTPPOPNO N 6 * Current population, census tract CLAR *

HTPRCAA N 3 * Percent African-Am., census tract CLAR *

HTPRCASN N 3 * Percent Asian- Am., census tract CLAR *

HTPRCOTH N 3 * Percent Other races, census tract CLAR *

3

60= 55 to 64%

1NPTS Household File Code Book - Public Use

| | Type: | | | Variable Label: | | Item ID: |
|----------|-------|---|---|-----------------------------------|---|----------|
| | | | | Percent Other races, census tract | | |
| INELGCNT | N | 2 | S | # of ineligible persons in HH | С | 3 |
| LIF_CYC | С | 2 | S | Family life cycle | D | 3 |
| MSASIZE | С | 2 | S | Size of MSA of household | * | * |
| MSTR_MON | N | 2 | S | Date of master interview - month | * | * |
| | | | | | | |
| MSTR_YR | N | 2 | S | Date of master interview - year | * | * |

Target.

| Target Variable: | Var Type: | Width: | | Variable Label: | | Item ID: |
|---------------------|--------------|--------|---|---|---|----------|
| NONFMFLG | С | 2 | S | Non-family income reported for HH | | |
| | | | | | | |
| NOTELWKS | С | 2 | N | No. of weeks w/o telephone service | J | 5 |
| NOTELYR | С | 2 | N | Without telephone service in past year? | J | 4 |
| NUMADLT | N | 2 | S | # of adults in HH | D | 3 |
| | | | | | | |
| OTHERPTR | С | 2 | N | Other public transit available | С | 3 |
| P10_AGE | N | 3 | N | Age of person 10 | D | 3 |
| P10_DRVR | С | 2 | N | Driver status of person 10 | D | 9 |
| P10_REL | С | 2 | N | Person 10 relation to ref. person | D | 7 |

| Target Variable | Value Range and Codes: | Freqs: Comments: |
|--------------------|--|---|
| NONFMFLG | 01= Yes | 262 Indicates one or more persons reported their income in NONFMINC, which was NOT included in HHFAMINC |
| | 02= No | 41,771 |
| | 94= Legitimate skip | 0 |
| | 98= Not Ascertained | 0 |
| | 99= Refused | 0 |
| NOTELWKS | (00 - 99) | . No. of weeks (months converted to weeks) |
| NOTELYR | | 946 |
| | 02= No 94= Legitimate skip | 40,847 0 |
| | 98= Not Ascertained | 188 |
| | 99= Refused | 52 |
| | | |
| NUMADLT | 0 | 5 Number of persons 18 years and older |
| | 1 | 10,062 |
| | 2 | 26,071 |
| | 3 | 4,436 |
| | 4 5 | 1,199 212 |
| | 6 | 40 |
| | 7 | 6 |
| | 8 | 2 |
| OTHERPTR | 01 70- | 0.001 |
| OIHERPIR | 01= Yes 02= No | 8,231 18,970 |
| | 94= Legitimate skip | 14,606 |
| | 98= Not Ascertained | 225 |
| | 99= Refused | 1 |
| P10 AGE | (0 - 75) | 26 |
| FIU_AGE | 994= Legitimate skip | 42,007 |
| | 998= Not ascertained | 0 |
| | 999= Refused | 0 |
| P10_DRVR | N1= Yes | 1 |
| I IO_DICVIC | 02= No | 25 |
| | 94= Legitimate skip | 42,007 |
| | 98= Not Ascertained | 0 |
| | 99= Refused | 0 |
| P10 REL | 01= Reference person | 0 |
| - | 02= Spouse of ref. person | 0 |
| | 03= Child of ref. person | 16 |
| | 04= Parent of ref. person | 0 |
| | 05= Sibling of ref. person | 0 |
| | 06= Other relative of ref. person | 8 |
| | 07= Unmarried partner of ref. person | 0 |
| | 08= Not related to ref. person | 2 42,007 |
| | 94= Legitimate skip 98= Not ascertained | 42,007 |
| | yo- not ascertained | U |

Target Var

| | | | | Variable Label: | | Item ID: |
|----------|---|---|---|-----------------------------------|---|----------|
| P10_REL | С | 2 | N | Person 10 relation to ref. person | | 7 |
| P10_STAT | С | 2 | N | Response status of person 10 | * | * |
| P10_WKR | С | 2 | N | Worker status of person 10 | D | 12 |
| P1_AGE | N | 3 | N | Age of person 1 | D | 3 |
| P1_DRVR | С | 2 | N | Driver status of person 1 | D | 9 |
| P1_REL | С | 2 | N | Person 1 relation to ref. person | D | 7 |
| | | | | | | |
| P1_SEX | С | 2 | N | Sex of person 1 | D | 4 |

| Target Variable | Value Range and Codes: | Freqs: | Comments: |
|--------------------|--|--|-------------------------------------|
| | 99= Refused | 0 | |
| P10_SEX | 01= Male 02= Female 94= Legitimate skip 98= Not ascertained 99= Refused | 12 14 42,007 0 | |
| P10_STAT | 01= Ineligible, too young 02= Other ineligible 03= Complete, self interview 04= Complete, proxy interview 05= No contact made 06= Refused 07= Contact made, time expired 08= Other non-interview 94= Legitimate skip | 20 0 0 2 0 1 1 3 0 42,007 | See documentation notes for Pi_STAT |
| P10_WKR | 01= Yes 02= No 94= Legitimate skip 98= Not Ascertained 99= Refused | 1 25 42,007 0 | |
| P1_AGE | (1 - 88) 994= Legitimate skip 998= Not ascertained 999= Refused | 42,023 0 4 6 | |
| P1_DRVR | 01= Yes 02= No 94= Legitimate skip 98= Not Ascertained 99= Refused | 38,544 3,489 0 0 | |
| P1_REL | 01= Reference person 02= Spouse of ref. person 03= Child of ref. person 04= Parent of ref. person 05= Sibling of ref. person 06= Other relative of ref. person 07= Unmarried partner of ref. person 08= Not related to ref. person 94= Legitimate skip 98= Not ascertained 99= Refused | 41,957 3 64 1 2 4 1 1 0 0 | |
| P1_SEX | 01= Male 02= Female 94= Legitimate skip 98= Not ascertained 99= Refused | 26,595 15,438 0 0 | |

Target Var

| | | | | Variable Label: | | Item ID: |
|---------|---|---|---|----------------------------------|---|----------|
| | | | | Response status of person 1 | * | |
| P1_WKR | С | 2 | N | Worker status of personl | D | 12 |
| P2_AGE | N | 3 | N | Age of person 2 | D | 3 |
| P2_DRVR | С | 2 | N | Driver status of person 2 | D | 9 |
| P2_REL | С | 2 | N | Person 2 relation to ref. person | D | 7 |
| | | | | | | |
| P2_SEX | С | 2 | N | Sex of person 2 | D | 4 |
| P2_STAT | С | 2 | N | Response status of person 2 | * | * |

| | Value Range and Codes: | | Comments: |
|---------|--|---|-------------------------------------|
| P1_STAT | 01= Ineligible, too young 02= Other ineligible 03= Complete, self interview 04= Complete, proxy interview 05= No contact made 06= Refused 07= Contact made, time expired 08= Other non-interview 94= Legitimate skip | 13 52 33,678 6,075 684 543 824 164 | See documentation notes for Pi_STAT |
| P1_WKR | 01= Yes 02= No 94= Legitimate skip 98= Not Ascertained 99= Refused | 28,994 13,039 0 0 | |
| P2_AGE | (0 - 88) 994= Legitimate skip 998= Not ascertained 999= Refused | 33,792 8,219 9 13 | |
| P2_DRVR | 01= Yes 02= No 94= Legitimate skip 98= Not Ascertained 99= Refused | 28,840 4,974 8,219 0 | |
| P2_REL | 01= Reference person 02= Spouse of ref. person 03= Child of ref. person 04= Parent of ref. person 05= Sibling of ref. person 06= Other relative of ref. person 07= Unmarried partner of ref. person 08= Not related to ref. person 94= Legitimate skip 98= Not ascertained 99= Refused | 33 25,663 4,045 462 452 516 1,199 1,399 8,219 17 28 | |
| P2_SEX | 01= Male 02= Female 94= Legitimate skip 98= Not ascertained 99= Refused | 8,860 24,951 8,219 3 0 | |
| P2_STAT | 01= Ineligible, too young 02= Other ineligible 03= Complete, self interview 04= Complete, proxy interview 05= No contact made 06= Refused 07= Contact made, time expired | 345 89 22,970 7,635 896 617 993 | See documentation notes for Pi_STAT |

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Target Var

| | | | | Variable Label: | | Item ID: |
|---------|---|---|---|----------------------------------|---|----------|
| | | | | | * | * |
| P2_WKR | С | 2 | N | Worker status of person 2 | D | 12 |
| | | | | | | |
| P3_AGE | N | 3 | N | Age of person 3 | D | 3 |
| P3_DRVR | С | 2 | N | Driver status of person 3 | D | 9 |
| P3_REL | С | 2 | N | Person 3 relation to ref. person | D | 7 |
| | | | | | | |
| | | | | | | |
| P3_SEX | С | 2 | N | Sex of person 3 | D | 4 |
| | | | | | | |
| P3_STAT | С | 2 | N | Response status of person 3 | * | * |
| | | | | | | |
| P3_WKR | С | 2 | N | Worker status of person 3 | D | 12 |

23,482 4,955

13,596

23,482

Progid: disk46:[wmynpts.pubfiles]cbrp_hh.sas Date: 23SEP97

94= Legitimate skip

94= Legitimate skip

98= Not Ascertained

01= Yes 02= No

P3_WKR

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| Target Variable: | | | | Variable Label: | | Item ID: |
|---------------------|---|---|---|----------------------------------|---|----------|
| P3_WKR | | | N | Worker status of person 3 | D | 12 |
| P4_AGE | N | 3 | N | Age of person 4 | D | 3 |
| P4_DRVR | С | 2 | N | Driver status of person 4 | D | 9 |
| P4_REL | С | 2 | N | Person 4 relation to ref. person | D | 7 |
| | | | | | | |
| | | | | | | |
| P4_SEX | С | 2 | N | Sex of person 4 | D | 4 |
| P4_STAT | С | 2 | N | Response status of person 4 | * | * |
| P4_WKR | С | 2 | N | Worker status of person 4 | D | 12 |
| P5_AGE | N | 3 | N | Age of person 5 | D | 3 |

Target.

30,874 0 0

4,114

37,917 2 0

Progid: disk46:[wmynpts.pubfiles]cbrp_hh.sas Date: 23SEP97

94= Legitimate skip

98= Not Ascertained 99= Refused

994= Legitimate skip

998= Not ascertained 999= Refused

(0 - 88)

P5_AGE

Target Var

| | | | | Variable Label: | | Item ID: |
|---------|---|---|---|----------------------------------|---|----------|
| | | | | Driver status of person 5 | | |
| P5_REL | С | 2 | N | Person 5 relation to ref. person | D | 7 |
| | | | | | | |
| P5_SEX | С | 2 | N | Sex of person 5 | D | 4 |
| P5_STAT | С | 2 | N | Response status of person 5 | * | * |
| P5_WKR | С | 2 | N | Worker status of person 5 | D | 12 |
| P6_AGE | N | 3 | N | Age of person 6 | D | 3 |
| P6_DRVR | С | 2 | N | Driver status of person 6 | D | 9 |
| P6_REL | С | 2 | N | Person 6 relation to ref. person | D | 7 |

| Target Variable | Value Range and Codes: | Freas: | Comments: |
|--------------------|--|--|-------------------------------------|
| | | _ | |
| P5_DRVR | 01= Yes 02= No 94= Legitimate skip 98= Not Ascertained 99= Refused | 371 3,745 37,917 0 | |
| P5_REL | 01= Reference person 02= Spouse of ref. person 03= Child of ref. person 04= Parent of ref. person 05= Sibling of ref. person 06= Other relative of ref. person 07= Unmarried partner of ref. person 08= Not related to ref. person 94= Legitimate skip 98= Not ascertained 99= Refused | 8 35 3,422 45 24 438 4 135 37,917 | |
| P5_SEX | 01= Male 02= Female 94= Legitimate skip 98= Not ascertained 99= Refused | 2,040 2,075 37,917 1 | |
| P5_STAT | 01= Ineligible, too young 02= Other ineligible 03= Complete, self interview 04= Complete, proxy interview 05= No contact made 06= Refused 07= Contact made, time expired 08= Other non-interview 94= Legitimate skip | 1,325 35 376 2,063 97 27 165 28 37,917 | See documentation notes for Pi_STAT |
| P5_WKR | 01= Yes 02= No 94= Legitimate skip 98= Not Ascertained 99= Refused | 318 3,797 37,917 1 0 | |
| P6_AGE | (0 - 88) 994= Legitimate skip 998= Not ascertained 999= Refused | 1,263 40,769 1 0 | |
| P6_DRVR | 01= Yes 02= No 94= Legitimate skip 98= Not Ascertained 99= Refused | 90 1,174 40,769 0 | |
| P6_REL | 01= Reference person | 1 | |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | | Item ID: |
|---------------------|--------------|--------|-----------|----------------------------------|---|----------|
| P6_REL | C | 2 | N | Person 6 relation to ref. person | | |
| | | | | | | |
| | | | | | | |
| P6_SEX | С | 2 | N | Sex of person 6 | D | 4 |
| P6_STAT | С | 2 | N | Response status of person 6 | * | * |
| | | | | | | |
| | | • | | | * | |
| P6_WKR | С | 2 | N | Worker status of person 6 | * | * |
| P7_AGE | N | 3 | N | Age of person 7 | D | 3 |
| P7_DRVR | С | 2 | N | Driver status of person 7 | D | 9 |
| | | | | | | |
| P7_REL | C | 2 | N | Person 7 relation to ref. person | D | 7 |

| Target | Value Range and Codes: | Exogg: | Comments: |
|----------|--------------------------------------|--------|-------------------------------------|
| | value Range and Codes: | | COMMETES. |
| | | | |
| | 02= Spouse of ref. person | 11 | |
| | 03= Child of ref. person | 928 | |
| | 04= Parent of ref. person | 14 | |
| | 05= Sibling of ref. person | 10 | |
| | 06= Other relative of ref. person | 235 | |
| | 07= Unmarried partner of ref. person | 1 | |
| | 08= Not related to ref. person | 62 | |
| | 94= Legitimate skip | 40,769 | |
| | 98= Not ascertained | 2 | |
| | 99= Refused | 0 | |
| P6_SEX | 01= Male | 666 | |
| | 02= Female | 598 | |
| | 94= Legitimate skip | 40,769 | |
| | 98= Not ascertained | 0 | |
| | 99= Refused | 0 | |
| P6_STAT | 01= Ineligible, too young | 474 | See documentation notes for Pi_STAT |
| 10_01111 | 02= Other ineligible | 16 | |
| | 03= Complete, self interview | 78 | |
| | 04= Complete, proxy interview | 588 | |
| | 05= No contact made | 28 | |
| | 06= Refused | 8 | |
| | 07= Contact made, time expired | 64 | |
| | 08= Other non-interview | 8 | |
| | 94= Legitimate skip | 40,769 | |
| P6_WKR | 01= Yes | 86 | |
| ro_wide | 02= No | 1,176 | |
| | 94= Legitimate skip | 40,769 | |
| | 98= Not Ascertained | 2 | |
| | 99= Refused | 0 | |
| | JJ- Relabed | · · | |
| P7_AGE | (0 - 88) | 390 | |
| | 994= Legitimate skip | 41,642 | |
| | 998= Not ascertained | 1 | |
| | 999= Refused | 0 | |
| P7_DRVR | 01= Yes | 24 | |
| _ | 02= No | 367 | |
| | 94= Legitimate skip | 41,642 | |
| | 98= Not Ascertained | . 0 | |
| | 99= Refused | 0 | |
| P7_REL | 01= Reference person | 0 | |
| T , | 02= Spouse of ref. person | 2 | |
| | 03= Child of ref. person | 261 | |
| | 04= Parent of ref. person | 7 | |
| | 05= Sibling of ref. person | 2 | |
| | 06= Other relative of ref. person | 92 | |
| | 07= Unmarried partner of ref. person | 1 | |
| | 08= Not related to ref. person | 25 | |
| | oo- not related to rer. person | 23 | |

| Variable: | | | | Variable Label: | | Item ID: |
|-----------|---|---|---|----------------------------------|---|----------|
| | | | | Person 7 relation to ref. person | | |
| P7_SEX | С | 2 | N | Sex of person 7 | D | 4 |
| P7_STAT | С | 2 | N | Response status of person 7 | * | * |
| p7_wkr | С | 2 | N | Worker status of person 7 | D | 12 |
| P8_AGE | N | 3 | N | Age of person 8 | D | 3 |
| P8_DRVR | С | 2 | N | Driver status of person 8 | D | 9 |
| P8_REL | С | 2 | N | Person 8 relation to ref. person | D | 7 |
| | | | | | | |
| P8_SEX | С | 2 | N | Sex of person 8 | D | 4 |

| Target | | _ | |
|-----------|--------------------------------------|--------|-------------------------------------|
| | Value Range and Codes: | | Comments: |
| | | | |
| | OA Tamibimaha alain | 41 (40 | |
| | 94= Legitimate skip | 41,642 | |
| | 98= Not ascertained 99= Refused | 0 1 | |
| | 99= Relused | -1 | |
| P7_SEX | 01= Male | 201 | |
| P/_SEA | 02= Female | 190 | |
| | 94= Legitimate skip | 41,642 | |
| | 98= Not ascertained | 41,042 | |
| | 99= Refused | 0 | |
| | JJ= Relused | 0 | |
| P7_STAT | 01= Ineligible, too young | 162 | See documentation notes for Pi_STAT |
| 1 /_01/11 | 02= Other ineligible | 7 | bee documentation noted for fightn |
| | 03= Complete, self interview | 21 | |
| | 04= Complete, proxy interview | 166 | |
| | 05= No contact made | 9 | |
| | 06= Refused | 5 | |
| | 07= Contact made, time expired | 18 | |
| | 08= Other non-interview | 3 | |
| | 94= Legitimate skip | 41,642 | |
| | JI Degitermade Brief | 11,012 | |
| P7_WKR | 01= Yes | 25 | |
| | 02= No | 366 | |
| | 94= Legitimate skip | 41,642 | |
| | 98= Not Ascertained | 0 | |
| | 99= Refused | 0 | |
| | | | |
| P8_AGE | (0 - 82) | 144 | |
| | 994= Legitimate skip | 41,889 | |
| | 998= Not ascertained | 0 | |
| | 999= Refused | 0 | |
| | | | |
| P8_DRVR | 01= Yes | 8 | |
| | 02= No | 136 | |
| | 94= Legitimate skip | 41,889 | |
| | 98= Not Ascertained | 0 | |
| | 99= Refused | 0 | |
| | | | |
| P8_REL | 01= Reference person | 0 | |
| | 02= Spouse of ref. person | 2 | |
| | 03= Child of ref. person | 93 | |
| | 04= Parent of ref. person | 3 | |
| | 05= Sibling of ref. person | 0 | |
| | 06= Other relative of ref. person | 34 | |
| | 07= Unmarried partner of ref. person | 0 | |
| | 08= Not related to ref. person | 11 | |
| | 94= Legitimate skip | 41,889 | |
| | 98= Not ascertained | 1 | |
| | 99= Refused | 0 | |
| D0 c=== | 01 | | |
| P8_SEX | 01= Male | 76 | |
| | 02= Female | 67 | |
| | 94= Legitimate skip | 41,889 | |

| Target Variable: | | | | Variable Label: | | Item ID: |
|---------------------|---|---|---|----------------------------------|---|----------|
| | | | | Sex of person 8 | D | |
| P8_STAT | С | 2 | N | Response status of person 8 | * | * |
| | | | | | | |
| | | | | | | |
| P8_WKR | С | 2 | N | Worker status of person 8 | * | * |
| | | | | | | |
| P9_AGE | N | 3 | N | Age of person 9 | D | 3 |
| P9_DRVR | С | 2 | N | Driver status of person 9 | D | 9 |
| | | | | | | |
| P9_REL | С | 2 | N | Person 9 relation to ref. person | D | 7 |
| | | | | | | |
| | | | | | | |
| P9_SEX | C | 2 | N | Sex of person 9 | D | 4 |
| | | | | | | |
| P9_STAT | С | 2 | N | Response status of person 9 | * | * |

| | Value Range and Codes: | | Comments: |
|---------|---|-------------|-------------------------------------|
| | | | |
| | 98= Not ascertained | 1 | |
| | 99= Refused | 0 | |
| P8_STAT | 01= Ineligible, too young | 77 | See documentation notes for Pi_STAT |
| | 02= Other ineligible | 2 | |
| | 03= Complete, self interview | . 5 | |
| | 04= Complete, proxy interview | 45 | |
| | 05= No contact made | 4 | |
| | 06= Refused | 3 7 | |
| | 07= Contact made, time expired 08= Other non-interview | 1 | |
| | 94= Legitimate skip | 41,889 | |
| | 94- Degitimate Skip | 41,009 | |
| P8_WKR | 01= Yes | 10 | |
| | 02= No | 134 | |
| | 94= Legitimate skip 98= Not Ascertained | 41,889 0 | |
| | 99= Refused | 0 | |
| | (2 | | |
| P9_AGE | (0 - 67) | 58 | |
| | 994= Legitimate skip | 41,974 | |
| | 998= Not ascertained 999= Refused | 1 0 | |
| | | | |
| P9_DRVR | 01= Yes | _4 | |
| | 02= No | 55 | |
| | 94= Legitimate skip | 41,974 | |
| | 98= Not Ascertained 99= Refused | 0 | |
| | JJ- Refused | - | |
| P9_REL | 01= Reference person | 0 | |
| | 02= Spouse of ref. person | 1 | |
| | 03= Child of ref. person | 37 | |
| | 04= Parent of ref. person 05= Sibling of ref. person | 1 0 | |
| | 06= Other relative of ref. person | 14 | |
| | 07= Unmarried partner of ref. person | 0 | |
| | 08= Not related to ref. person | 6 | |
| | 94= Legitimate skip | 41,974 | |
| | 98= Not ascertained | 0 | |
| | 99= Refused | 0 | |
| P9 SEX | 01= Male | 41 | |
| | 02= Female | 18 | |
| | 94= Legitimate skip | 41,974 | |
| | 98= Not ascertained | 0 | |
| | 99= Refused | 0 | |
| P9_STAT | 01= Ineligible, too young | 37 | See documentation notes for Pi_STAT |
| _ | 02= Other ineligible | 0 | _ |
| | 03= Complete, self interview | 3 | |
| | 04= Complete, proxy interview | 9 | |
| | | | |

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| | | | | | (This page revised March 19 | | |
|---------------|--------------|--------|-----------|-------------------------------------|-----------------------------|----------|--|
| Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: | |
| | | | | Response status of person 9 | * | * | |
| P9_WKR | С | 2 | N | Worker status of person 9 | D | 12 | |
| RAIL | С | 2 | N | Presence/absence of rail | * | * | |
| REF_AGE | N | 3 | S | Age of reference person (yr) | D | 3 | |
| | | | | | | | |
| REF_DRVR | С | 2 | N | Driver status of reference person | D | 9 | |
| REF_EDUC | С | 2 | S | Education of HH reference person | F | 1 | |
| | | | | | | | |
| REF_SEX | С | 2 | S | Sex of ref person | D | 4 | |
| REF_STAT | С | 2 | N | Response status of reference person | * | * | |
| | | | | | | | |
| DEE MVD | C | 2 | N | Worker status of reference person | D | 10 | |
| VEL_MVK | C | ۵ | TA . | worker scatus or reference bersou | ע | ±0 | |

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| | | | (This page revised March 1999) |
|----------|--|------------|---|
| | Value Range and Codes: | | Comments: |
| | 05= No contact made | 3 | |
| | 06= Refused | 1 | |
| | 07= Contact made, time expired | 6 | |
| | 08= Other non-interview | 0 | |
| | 94= Legitimate skip | 41,974 | |
| P9_WKR | 01= Yes | 2 | |
| | 02= No | 57 | |
| | 94= Legitimate skip | 41,974 | |
| | 98= Not Ascertained | 0 | |
| | 99= Refused | 0 | |
| RAIL | 01= Yes | 3,071 | 01=Urban areas 1,250,000 population or greater with subway/elevated rail,02=other areas |
| | 02= No | 38,962 | arcab |
| REF_AGE | (16 - 88) | 42,024 | |
| | 16-75= Ages 16-75 | 39,210 | |
| | 77= Ages 76-79 | 1,259 | |
| | 82= Ages 80-84 | 997 | |
| | 88= Ages 85-100 | 558 | |
| | 994= Legitimate skip | 0 | |
| | 998= Not ascertained | 4 | |
| | 999= Refused | 5 | |
| REF_DRVR | 01= Yes | 38,599 | |
| | 02= No | 3,434 | |
| | 94= Legitimate skip 98= Not Ascertained | 0 | |
| | 99= Refused | 0 | |
| REF EDUC | 11= Less than H.S. graduate | 4,271 | |
| | 12= H.S. graduate (includes GED) | 12,546 | |
| | 21= Some college, no degree | 7,655 | |
| | 22= Associate degree in college | 2,272 | |
| | 24= Bachelors degree in college | 6,995 | |
| | 25= Some grad/prof school | 1,001 | |
| | 26= Grad/prof school degree | 4,729 | |
| | 98= Not ascertained | 2,476 | |
| | 99= Refused | 88 | |
| REF_SEX | 01= Male | 26,569 | |
| | 02= Female | 15,464 | |
| REF_STAT | 01= Ineligible, too young | | See documentation notes for Pi_STAT |
| | 02= Other ineligible | 52 | |
| | 03= Complete, self interview | 33,725 | |
| | 04= Complete, proxy interview | 6,042 | |
| | 05= No contact made 06= Refused | 684 544 | |
| | 07= Contact made, time expired | 823 | |
| | 08= Other non-interview | 163 | |
| | 94= Legitimate skip | 0 | |
| REF_WKR | 01= Yes | 29,035 | |
| | 02= No | 12,998 | |
| | | | |

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| | | | | Variable Label: | | Item ID: |
|----------|---|-----|---|-------------------------------------|---|----------|
| | | | N | | | 10 |
| RESP_CNT | N | 2 | S | # of respondents in HH | * | * |
| | | | | | | |
| | | | | | | |
| STCBLOCK | N | 3 | N | Reported dist to streetcar (blocks) | С | 5 |
| STCMILE | N | 3 | N | Reported dist to streetcar (miles) | С | 5 |
| STC_AVL | С | 2 | N | Streetcar service available | С | 4 |
| STC_DIST | N | 5.1 | N | Distance to streetcar (miles) | С | 5 |
| SUBBLOCK | N | 3 | N | Reported dist to subway (blocks) | С | 5 |
| SUBMILE | N | 3 | N | Reported dist to subway (miles) | С | 5 |

| | Value Range and Codes: | Freqs: | Comments: |
|----------|--|---|--|
| | 94= Legitimate skip 98= Not Ascertained 99= Refused | 0 0 0 | |
| RESP_CNT | 1 | 11,912 | Number of person interviews completed for the household |
| | 2 3 4 5 6 7 8 9 | 16,441 6,893 4,746 1,509 405 97 23 5 | |
| STCBLOCK | (1 - 50) 994= Legitimate skip 996= < 1 block 998= Not ascertained 999= Refused | 316 41,310 89 311 7 | Blocks as reported |
| STCMILE | (1 - 45) 994= Legitimate skip 997= Half a mile 998= Not ascertained 999= Refused | 437 41,213 65 311 7 | Miles as reported |
| STC_AVL | 01= Yes 02= No 94= Legitimate skip 98= Not Ascertained 99= Refused | 999 7,232 33,576 225 1 | |
| STC_DIST | (0 - 45) | | Miles as reported, blocks converted (9/mile). se documentation notes for STC_DIST. |
| | 994= Legitimate skip 998= Not ascertained 999= Refused | 40,808 311 7 | |
| SUBBLOCK | (1 - 200) 994= Legitimate skip 996= < 1 block 998= Not ascertained 999= Refused | 1,854 39,716 143 316 4 | Blocks as reported |
| SUBMILE | (1 - 60) 994= Legitimate skip 997= Half a mile 998= Not ascertained 999= Refused | 1,264 40,243 206 316 4 | Miles as reported |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | | Item ID: |
|---------------------|--------------|--------|-----------|------------------------------------|---|----------|
| SUBSTRAT | N | 1 | * | Substratum within VARSTRAT | * | * |
| SUB_AVL | С | 2 | N | 01= if subway service is available | C | 4 |
| SUB_DIST | N | 5.1 | N | Distance to subway | С | 5 |
| SUM_STAT | С | 3 | N | Summary status code for household | * | * |
| TDAY_MON | N | 2 | S | Travel day date (MM) | * | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| TDAY_YR | N | 2 | S | Travel day date (YY) | * | * |
| TELNUMCT | С | 2 | N | No. of phone numbers in HH | J | 3 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

TEL_HHS C 2 N No. of HHs this phone number serves A $\,$ 7

Target.

| | | | | Variable Label: | | Item ID: |
|----------|---|---|---|-------------------------------------|---|----------|
| TEL_HHS | | | | No. of HHs this phone number serves | | |
| TPER_BMO | N | 2 | S | Travel period beginning date (MM) | * | * |
| TPER_BYR | N | 2 | S | Travel period beginning date (YY) | * | * |
| TPER_EMO | N | 2 | S | Travel period ending date (MM) | * | * |
| | | | | | | |
| TPER_EYR | N | 2 | S | Travel period ending date (YY) | * | * |
| TRNBLOCK | N | 3 | N | Reported dist to train (blocks) | С | 5 |
| TRNMILE | N | 3 | N | Reported dist to train (miles) | С | 5 |

453

425

Progid: disk46:[wmynpts.pubfiles]cbrp_hh.sas Date: 23SEP97

998= Not ascertained

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | | Item ID: |
|---------------------|--------------|--------|-----------|---|---|----------|
| TRNMILE | N | 3 | N | Reported dist to train (miles) | | 5 |
| TRN_AVL | С | 2 | N | 01= if commuter train service available | C | 4 |
| TRN_DIST | N | 5.1 | N | Distance to commuter train | С | 5 |
| URBAN | С | 2 | * | Urbanized area code | * | * |
| VARSTRAT | N | 2 | S | Sample stratum | * | * |
| WRKCOUNT | N | 2 | WRKRCNT | | * | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| WTHHFIN | N | 11.5 | S | Final household weight | * | * |

Target Var

| Variable: | | | 1990 Var: | Variable Label: | Section: | Item ID: |
|-----------|---|-----|-----------|--------------------------|----------|----------|
| | | | | Always the driver? | F | |
| CENSUS_D | С | 2 | s | Census division | * | * |
| | | | | | | |
| CENSUS_R | С | 2 | S | Census region | * | * |
| DIARYCMP | С | 2 | N | Who completed diary | G | 9 |
| DIARYGET | С | 2 | N | Can get diary now | G | 11 |
| DIARYHAV | С | 2 | N | Have the diary now | G | 10 |
| DISTTOWK | N | 6.2 | N | One-way distance to work | F | 5.1 |
| | | | | | | |
| DRIVER | C | 2 | LIC_DRVR | Person is a driver D9 | D | 9 |

| | Value Range and Codes: | | Comments: |
|----------|-------------------------------|--------|---|
| | | | |
| ALWYSDRV | 01= Always drive | 1,295 | |
| | 02= Share the drive | 1,883 | |
| | 03= Rarely or Never | 1,726 | |
| | 94= Legitimate skip | 90,451 | |
| | 98= Not ascertained | 3 | |
| | 99= Refused | 2 | |
| CENSUS_D | 01= New England | 19,056 | |
| | 02= Middle Atlantic | 29,128 | |
| | 03= East North Central | 8,439 | |
| | 04= West North Central | 3,264 | |
| | 05= South Atlantic | 9,083 | |
| | 06= East South Central | 2,672 | |
| | 07= West South Central | 13,107 | |
| | 08= Mountain | 2,648 | |
| | 09= Pacific | 7,963 | |
| CENSUS_R | 01= Northeast | 48,184 | |
| | 02= North Central | 11,703 | |
| | 03= South | 24,862 | |
| | 04= West | 10,611 | |
| DIARYCMP | 01= Completed on own | 52,231 | |
| | 02= Someone else completed | 14,542 | |
| | 03= Not completed at all | 15,897 | |
| | 04= Did not recieve materials | 12,523 | |
| | 94= legitimate skip | 0 | |
| | 98= Not ascertained | 167 | |
| DIARYGET | 01= Yes | 971 | |
| | 02= No | 5,504 | |
| | 94= Legitimate skip | 88,715 | |
| | 98= Not ascertained | 170 | |
| | 99= Refused | 0 | |
| DIARYHAV | 01= Yes | 60,295 | |
| | 02= No | 6,475 | |
| | 94= Legitimate skip | 28,420 | |
| | 98= Not ascertained | 170 | |
| | 99= Refused | 0 | |
| DISTTOWK | (0 - 990) | 45,668 | See documantation notes |
| | 993= No fixed place | 327 | |
| | 994= Legitimate skip | 47,577 | |
| | 995= Works at home | 777 | |
| | 998= Not ascertained | 980 | |
| | 999= Refused | 31 | |
| DRIVER | 01= Yes | 69,990 | Driver status reported in D-9, and verified or corrected in E-6 or E-7 $$ |
| | 02= No | 25,369 | |
| | 94= Legitimate skip | 0 | |
| | | | |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|--|----------|----------|
| DRIVER | С | 2 | LIC_DRVR | Person is a driver D9 | D | 9 |
| DRVRCNT | N | 2 | S | Number of drivers in HH | D | * |
| | | | | | | |
| | | | | | | |
| DTACDT | C | 2 | N | Worry about traffic accident | E | 1.D |
| | | | | | | |
| DTCONJ | С | 2 | N | Highway congestion | E | 1.AFK |
| | | | | | | |
| DTCRIME | С | 2 | N | Worry about crimes against motorists | E | 1.J |
| | | | | | | |
| DTNTFMLR | С | 2 | N | Unfamiliar local areas or neighborhood | E | 1.C |
| | | | | | | |
| DTPAVE | С | 2 | N | Rough pavement on highways | E | 1.BL |
| | | | | | | |
| | a | 0 | | | - | 1 07 |
| DTPOLLTN | C | 2 | N | Air pollution by cars, trucks, and buses | F | 1.GN |

| Target | | | |
|------------|--|-----------------|----------------------------------|
| | Value Range and Codes: | Freqs: | Comments: |
| | | | |
| | 98= Not ascertained | 1 | |
| | 99= Refused | 0 | |
| | 99- Relused | 0 | |
| DRVRCNT | 0 | 3,195 | Derived from the variable DRIVER |
| | 1 | 16,907 | |
| | 2 | 55,528 | |
| | 3 | 14,398 | |
| | 4 | 4,465 | |
| | 5 | 729 | |
| | 6 | 127 | |
| | 7 | 11 | |
| | 01 - 13 | 4 004 | |
| DTACDT | 01= Large problem | 4,234 | |
| | 02= Small problem | 8,317 | |
| | 03= No problem | 7,926 | |
| | 94= Legitimate skip | 74,741 | |
| | 98= Not ascertained 99= Refused | 128 14 | |
| | 99= Relused | 14 | |
| DTCONJ | 01= Large problem | 11,306 | |
| | 02= Small problem | 20,435 | |
| | 03= No problem | 29,651 | |
| | 94= Legitimate skip | 33,447 | |
| | 98= Not ascertained | 484 | |
| | 99= Refused | 37 | |
| DTCRIME | 01= Large problem | 4,433 | |
| DICKLIL | 02= Small problem | 7,272 | |
| | 03= No problem | 8,706 | |
| | 94= Legitimate skip | 74,773 | |
| | 98= Not ascertained | 168 | |
| | 99= Refused | 8 | |
| DUNIUNIA D | 01 Tarres | 2 401 | |
| DIMITITE | 01= Large problem 02= Small problem | 2,491 | |
| | 03= No problem | 5,420 12,571 | |
| | 94= Legitimate skip | 74,741 | |
| | 98= Not ascertained | 127 | |
| | 99= Refused | 10 | |
| | | | |
| DTPAVE | 01= Large problem | 10,145 | |
| | 02= Small problem | 15,621 | |
| | 03= No problem | 15,170 | |
| | 94= Legitimate skip | 54,034 | |
| | 98= Not ascertained | 361 | |
| | 99= Refused | 29 | |
| DTPOLLTN | 01= Large problem | 7,892 | |
| | 02= Small problem | 14,091 | |
| | 03= No problem | 18,926 | |
| | 94= Legitimate skip | 54,066 | |
| | 98= Not ascertained | 361 | |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|--|----------|----------|
| DTPOLLTN | С | 2 | N | Air pollution by cars, trucks, and buses | E | 1.GN |
| DTSTRTS | C | 2 | N | Rough pavement on neighborhood streets | E | 1.IM |
| DTTIEUP | С | 2 | N | Traffic tie-ups or road construction | Е | 1.HO |
| DTWALK | С | 2 | N | Poor walkways or sidewalks | E | 1.E |
| | | | | | | |
| EDUC | С | 2 | S | Highest grade or yr of school completed | F | 1 |
| FQSTBELT | С | 2 | N | How often wear seat belt when driving | Е | 4 |
| GT1JBLWK | С | 2 | N | Have more than one job last week | F | 3 |
| GWKXIN | N | 2 | * | Basis for geocoding - workplace location | GEOW | * |

| | Value Range and Codes: | | Comments: |
|----------|---|---|-----------|
| | 99= Refused | 24 | |
| DTSTRTS | 01= Large problem 02= Small problem 03= No problem 94= Legitimate skip 98= Not ascertained | 12,266 14,977 13,742 54,066 286 | |
| | 99= Refused | 23 | |
| DTTIEUP | 01= Large problem 02= Small problem 03= No problem 94= Legitimate skip 98= Not ascertained 99= Refused | 9,917 14,918 16,090 54,066 343 26 | |
| DTWALK | 01= Large problem 02= Small problem 03= No problem 94= Legitimate skip 98= Not ascertained 99= Refused | 3,370 5,660 11,355 74,741 223 | |
| EDUC | 11= Less than high school graduate 12= High school graduate include GED 21= Some college, but no degree 22= Associate degree in college 24= Bachelor's degrees 25= Some graduate/professional degree 26= Graduate/professional shcool degrees 94= Legitimate skip 98= Not ascertained 99= Refused | 10,686 25,264 15,355 4,454 12,685 1,734 7,448 17,082 481 171 | |
| FQSTBELT | 01= Always 02= Most of the time 03= Sometimes 04= Never 98= Not ascertained 99= Refused | 69,350 13,653 7,859 3,968 471 59 | |
| GT1JBLWK | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 6,079 45,606 43,643 23 | |
| GWKXIN | 0= Street address level match 2= Zip+2 Centroid 4= Zip+4 Centroid 5= 5-Digit Zip code centroid 94= Legitimate skip | 30,059 268 1,043 4,903 43,432 | |

| Target | Var | Width: | 1000 Var | Variable Label: | Section: | Thom ID: |
|----------|-----|--------|----------|--|----------|----------|
| | | | | variable haber. | | |
| GWKXIN | N | 2 | * | Basis for geocoding - workplace location | GEOW | * |
| HBHINMED | N | 6 | * | Median household income, BG | CLAR | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HBHRESDN | N | 6 | * | HU density (units/square mile), BG | CLAR | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HBHUR | С | 1 | * | Urban/rural code, block group | CLAR | * |
| | | | | | | |
| | | | | | | |
| HBPPOPDN | N | 6 | * | Population density, block group | CLAR | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HHCMSA | C | 4 | SMSA | CMSA identification code | * | * |

| | Value Range and Codes: | Freqs: | Comments: |
|----------|--|--------------|-----------|
| | 98= Not ascertained | 15,655 | |
| | you not ascertained | 13,033 | |
| HBHINMED | | 7,061 | |
| | 22,000= 20K to 25K | 7,798 | |
| | 27,000= 25K to 30K | 11,091 | |
| | 32,000= 30K to 35K | 12,789 | |
| | 37,000= 35K to 40K | 11,527 | |
| | 45,000= 40K to 50K | 19,536 | |
| | 60,000= 50K to 70K | 18,722 | |
| | 80,000= 70K to 999K | 6,168 | |
| | 999998= Not ascertained | 668 | |
| HBHRESDN | 25= 0 to 50 | 14,059 | |
| | 150= 50 to 250 | 16,152 | |
| | 700= 250 to 1000 | 21,390 | |
| | 2000= 1000 to 3000 | 26,386 | |
| | 4000= 3000 to 5000 | 7,615 | |
| | 6000= 5000 to 999K | 9,090 | |
| | 999998= Not ascertained | 668 | |
| HBHUR | 8= Not ascertained | 668 | |
| | C= Second city | 18,706 | |
| | R= Rural | 15,968 | |
| | S= Suburban | 23,377 | |
| | T= Town | 24,283 | |
| | U= Urban | 12,358 | |
| HBPPOPDN | 50= 0 to 100 | 11,840 | |
| | 300= 100 to 500 | 15,655 | |
| | 750= 500 to 1K | 8,608 | |
| | 1,500= 1K to 2K | 10,957 | |
| | 3,000= 2K to 4K | 15,629 | |
| | 7,000= 4K to 10K | 20,786 | |
| | 17,000= 10K to 25K | 7,071 | |
| | 30,000= 25K to 999K | 4,146 | |
| | 999998= Not ascertained | 668 | |
| HHCMSA | Chicago-Gary-Kenosha, IL-IN-WI CMSA | 1,958 | |
| | Cincinnati-Hamilton, OH-KY-IN CMSA | 393 | |
| | Cleveland-Akron, OH CMSA | 562 | |
| | Dallas-Fort Worth, TX CMSA | 722 | |
| | Denver-Boulder-Greeley, CO CMSA | 330 | |
| | Detroit-Ann Arbor-Flint, MI CMSA | 790 | |
| | Houston-Galveston-Brazoria, TX CMSA | 563 2,185 | |
| | Los Angeles-Riverside-Orange County Miami-Fort Lauderdale, FL CMSA | 600 | |
| | Milwaukee-Racine, WI CMSA | 314 | |
| | New York-No. New Jersey-Long Island | 12,217 | |
| | Phila-Wilmington-Atlantic City | 1,412 | |
| | Portland-Salem, OR-WA CMSA | 477 | |
| | Sacramento-Yolo, CA CMSA | 345 | |
| | San Francisco-Oakland-San Jose | 1,266 | |
| | | | |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|---------------------------|----------|----------|
| HHCMSA | С | 4 | SMSA | CMSA identification code | * | * |
| HHFAMINC | С | 2 | S | HH family income category | K | 1 & 2 |

| HHMSA | C | 4 | S | MSA identification code | * | * |
|----------|---|---|---|--|---|----|
| HHRESP | С | 2 | N | HH respondent | D | 13 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HHSIZE | N | 2 | S | Total number of persons in HH | D | 1 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HHVEHCNT | N | 2 | S | No. of vehicles in household (derived) | В | * |

Target.

21,928 44,923

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|---|----------|----------|
| HHVEHCNT | N | 2 | S | No. of vehicles in household (derived) | В | * |
| | | | | | | |
| | | | | | | |
| HH_HISP | С | 2 | S | Hispanic status of ref. person | D | 5 |
| | | | | | | |
| HH_RACE | С | 2 | S | Race of reference person | D | 6 |
| | | | | | | |
| HOUSEID | N | 8 | S | Household identification number | * | * |
| INTRVMON | N | 2 | S | Person interview date - month | * | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| INTRVYR | N | 2 | S | Person interview date - year | * | * |
| JOBLSTWK | C | 2 | N | Have full, part time job last wk or not | F | 2 |
| | | | | | | |
| | | | | | | |
| LIF_CYC | С | 2 | S | Family life cycle | D | 3 |

Target.

Target Var

| Variable: | Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-----------|-------|--------|-----------|-------------------------------------|----------|----------|
| LIF_CYC | С | 2 | S | Family life cycle | D | 3 |
| MSASIZE | С | 2 | S | Size of MSA of household | * | * |
| MSTR_MON | N | 2 | S | Date of master interview - month | * | * |
| | | | | | | |
| | | | | | | |
| MSTR_YR | N | 2 | S | Date of master interview - year | * | * |
| NCCOMCR | С | 2 | N | Not carpool-have company car | F | 17.11 |
| | | | | | | |
| NCINCVNT | С | 2 | N | Not carpool-it's inconvenient | F | 17.03 |
| NCIRRHR | С | 2 | N | Not carpool-irregular/unusual hours | F | 17.01 |
| NCLVFAR | C | 2 | N | Not carpool-live far from work | F | 17.1 |

| Target | The Down and Galact | | Garage Land |
|----------|---|------------------|-------------------------------------|
| | Value Range and Codes: | | Comments: |
| | | | |
| | 06= >1 adult, child age 6-15 | 23,697 | |
| | 07= 1 adult, child age 16-21 | 865 | |
| | 08= >1 adult, child age 16-21 | 6,144 | |
| | 09= 1 adult, retired, no children | 2,736 | |
| | 10= >1 adult, retired, no children | 12,297 | |
| | | | |
| MSASIZE | 01= Less than 250,000 | 8,840 | See documentation notes for MSASIZE |
| | 02= 250,000 - 499,999 | 5,943 | |
| | 03= 500,000 - 999,999 | 11,717 | |
| | 04= 1,000,000 - 2,999,999 | 17,870 | |
| | 05= 3,000,000 or more 94= Legitimate skip, not in an MSA | 36,980 14,010 | |
| | 94= Legicimate skip, not in an MSA | 14,010 | |
| MSTR_MON | 1 | 9,024 | Date of the household interview |
| | 2 | 8,256 | |
| | 3 | 9,128 | |
| | 4 | 7,537 | |
| | 5 | 11,351 | |
| | 6 | 9,242 | |
| | 7 | 6,187 | |
| | 8 | 5,502 | |
| | 9 | 6,344 | |
| | 10 | 7,761 | |
| | 11 | 8,348 | |
| | 12 | 6,680 | |
| MSTR YR | 95 | 56.194 | Date of the household interview |
| _ | 96 | 39,166 | |
| | | | |
| NCCOMCR | 01= Yes | 88 | |
| | 02= No | 20,337 | |
| | 94= Legitimate skip | 74,902 | |
| | 98= Not ascertained | 33 | |
| | 99= Refused | 0 | |
| NCINCVNT | 01= Yes | 1,569 | |
| | 02= No | 18,856 | |
| | 94= Legitimate skip | 74,902 | |
| | 98= Not ascertained | 33 | |
| | 99= Refused | 0 | |
| | 0.1 | 4 075 | |
| NCIRRHR | 01= Yes | 4,275 | |
| | 02= No | 16,150 | |
| | 94= Legitimate skip 98= Not ascertained | 74,902 33 | |
| | 98= Not ascertained 99= Refused | 33 | |
| | Description = cc | U | |
| NCLVFAR | 01= Yes | 65 | |
| | 02= No | 20,360 | |
| | 94= Legitimate skip | 74,902 | |
| | 98= Not ascertained | 33 | |
| | 99= Refused | 0 | |
| | | | |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|--|----------|----------|
| NCNEEDCR | С | 2 | N | | | 17.04 |
| NCNEVER | С | 2 | N | Not carpool-never thought of it | F | 17.08 |
| NCNLIKE | С | 2 | N | Not carpool-don't like to do it | F | 17.09 |
| NCNOONE | С | 2 | N | Not carpool-no one to carpool with | F | 17.02 |
| NCONLY | С | 2 | N | Not carpool-only one works there | F | 17.07 |
| NCOTHRES | С | 2 | N | Not carpool-other reasons | F | 17.06 |
| NCSHRTDI | С | 2 | N | Not carpool-short distance/unnecessary | F | 17.05 |
| NONFMINC | С | 2 | S | Individual income category | I | 1 & 2 |

16

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | | Item ID: |
|---------------------|--------------|--------|-----------|---------------------------------------|---|----------|
| NONFMINC | | | | Individual income category | I | |
| | | | | | | |
| | | | | | | |
| NPT2EXPV | С | 2 | N | Public transp. too expensive | F | 18.03 |
| | | | | | | |
| NPT2FRWK | C | 2 | N | Public trans. not available at work | F | 18.01 |
| NPT2MCTM | C | 2 | N | Public trans. takes too much time | म | 18.02 |
| | | _ | _ | | | |
| NPTCOMCR | С | 2 | N | Not used public trans. have com car | F | 18.11 |
| | | | | | | |
| NPTDLPT | С | 2 | N | Not used public trans. dont like to | F | 18.09 |
| NPTFMHM | C | 2 | N | Public trans. stops too far from home | F | 18.06 |
| | | | | | | |
| NPTHVCAR | С | 2 | N | Not used public trans. have onw car | F | 18.1 |

| Target Variable | Value Range and Codes: | Freqs: | Comments: |
|--------------------|--|--|-----------|
| | 11= \$50,000 - 54,999 12= \$55,000 - 59,999 13= \$60,000 - 64,999 14= \$65,000 - 69,999 15= \$70,000 - 74,999 16= \$75,000 - 79,999 17= \$80,000 - 99,999 18= \$100,000 and over 94= Legitimate skip 98= Not ascertained 99= Refused | 15 8 10 2 8 3 0 5 94,764 46 25 | |
| NPT2EXPV | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 122 8,899 86,321 18 0 | |
| NPT2FRWK | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 3,381 5,641 86,321 17 0 | |
| NPT2MCTM | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 1,070 7,952 86,321 17 0 | |
| NPTCOMCR | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 27 8,995 86,321 17 0 | |
| NPTDLPT | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 3,395 5,629 86,321 15 0 | |
| NPTFMHM | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 778 8,244 86,321 17 0 | |
| NPTHVCAR | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained | 186 8,836 86,321 17 | |

| Target | Var | width: | 1000 Vor. | Variable Isbel: | Section: | Thom TD: |
|----------|-----|--------|-----------|--|----------|----------|
| | | | 1990 Var• | Variable Label: | | Trem ID. |
| NPTHVCAR | C | 2 | N | Not used public trans. have onw car | F | 18.1 |
| NPTLVCLS | C | 2 | N | Not used public trans. short distance | F | 18.08 |
| NPTNTCNV | С | 2 | N | Public trans. schedule not convenient | F | 18.05 |
| NPTOTHER | С | 2 | N | Not used public trans. for other reasons | F | 18.07 |
| NPTOTHTG | С | 2 | N | Need own vehicle to do other things | F | 18.04 |
| NSBBACK | C | 2 | N | Not wear seat belt when in back seat | E | 5.05 |
| NSBBROKE | C | 2 | N | Not wear seat belt when broken/unavail | E | 5.02 |
| NSBDRVR | С | 2 | N | Not wear seat belt when driver | E | 5.07 |
| NSBFGET | С | 2 | N | Not wear seat belt when forget | Е | 5.01 |
| NSBHURRY | С | 2 | N | Not wear seat belt when in a hurry | E | 5.12 |

| | Value Range and Codes: | | Comments: |
|----------|--|-------------------------------------|-----------|
| | 99= Refused | 0 | |
| NPTLVCLS | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 496 8,526 86,321 17 0 | |
| NPTNTCNV | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 2,182 6,840 86,321 17 0 | |
| NPTOTHER | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 1,337 7,684 86,321 18 0 | |
| NPTOTHTG | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 1,373 7,648 86,321 18 0 | |
| NSBBACK | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 1,283 20,225 73,848 4 | |
| NSBBROKE | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 367 21,137 73,848 8 0 | |
| NSBDRVR | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 348 21,156 73,848 8 0 | |
| NSBFGET | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 4,873 16,631 73,848 8 0 | |
| NSBHURRY | 01= Yes 02= No | 1,293 15,900 | |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|--|----------|----------|
| NSBHURRY | | 2 | | Not wear seat belt when in a hurry | | 5.12 |
| NSBLONG | С | 2 | N | Not wear seat belt when taking long trip | Е | 5.04 |
| NSBMED | С | 2 | И | Not wear seat belt: medical reasons | Е | 5.15 |
| NSBNLIKE | С | 2 | N | Not wear seat belt: don't like to | Е | 5.16 |
| NSBNOASK | С | 2 | N | Not wear seat belt when not asked | E | 5.14 |
| NSBOTHER | С | 2 | N | Not wear seat belt: other specify | Е | 5.11 |
| NSBPOLIC | С | 2 | N | Not wear seat belt when police not aroun | E | 5.18 |
| NSBPSNG | С | 2 | N | Not wear seat belt when passenger | Е | 5.06 |
| NSBSHORT | С | 2 | N | Not wear seat belt when short trips | E | 5.03 |

| | Value Range and Codes: | | Comments: |
|----------|--|---------------------------------------|-----------|
| | 94= Legitimate skip 98= Not ascertained 99= Refused | 73,848 4,319 0 | |
| NSBLONG | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 237 21,267 73,848 8 0 | |
| NSBMED | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 449 21,055 73,848 8 0 | |
| NSBNLIKE | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 326 21,178 73,848 8 0 | |
| NSBNOASK | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 719 16,410 73,848 4,383 0 | |
| NSBOTHER | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 2,915 18,589 73,848 8 0 | |
| NSBPOLIC | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 36 21,468 73,848 8 0 | |
| NSBPSNG | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 903 20,601 73,848 8 0 | |
| NSBSHORT | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 10,538 10,967 73,848 7 0 | |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | | Item ID: |
|---------------------|--------------|--------|-----------|--|---|----------|
| NSBSPCLH | С | 2 | N | Not wear seat belt w/ certain clothes | E | 5.13 |
| NSBSPPER | С | 2 | N | Not wear seat belt w/ a certain person | E | 5.1 |
| NSBSPVEH | С | 2 | N | Not wear seat belt when in a certain veh | Е | 5.08 |
| NSBTOWN | С | 2 | N | Not wear seat belt when in town/city | Е | 5.09 |
| NSBTOWRK | С | 2 | N | Not wear seat belt when going to work | Е | 5.17 |
| NSBWTHR | С | 2 | N | Not wear seat belt when good weather | Е | 5.19 |
| OUTCNTRY | С | 2 | N | Out of country | G | 14 |
| PARKAMNT | N | 7.2 | S | Parking fee to pay at work | F | 14.1 |
| PARKCODE | С | 2 | S | Unit of amount paid for parking at work | F | 14.2 |

Target.

Target Var

| Variable: | Type: | Width: | 1990 Var: | Variable Label: | | Item ID: |
|-----------|-------|--------|-----------|--|----|----------|
| PARKCODE | С | 2 | S | Unit of amount paid for parking at work | | 14.2 |
| PAYTOPRK | С | 2 | S | Pay parking at work? | F | 13 |
| PERSONID | И | 2 | S | Person ID number | * | * |
| | | | | | | |
| PROXY | C | 2 | H_PROXY | Proxy respondent for person data | * | * |
| | | | | | | |
| PTCARND | C | 2 | N | Having access to a car when you need it | E | 3.1 |
| | | | | | | |
| PTCOST | С | 2 | N | Cost of travel by public transportation | E | 3.G |
| PTCRIME | C | 2 | N | Worry w/ crime on public transportation | ъ: | 3.C |
| - 1011111 | J | _ | | ,, sime on pastro clamppication | _ | |
| PTCROWD | С | 2 | N | Difficulty w/ crowding or getting a seat | E | 3.AF |
| | | | | | | |

Target.

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| Marsach Var | | | | (This page revised March 1999) | | |
|-------------|---|---|---|--|---|----------|
| | | | | Variable Label: | | Item ID: |
| PTCROWD | С | 2 | N | Difficulty w/ crowding or getting a seat | E | 3.AF |
| PTNTCLN | С | 2 | N | Transit stations/vehicles not clean | E | 3.D |
| PTTIMEON | С | 2 | N | Time spent on public transportation | E | 3.BJ |
| PTTMND | С | 2 | И | Public transp avail time of day needed | Е | 3.Н |
| PTTRANSF | С | 2 | N | Time and aggrevation with transferes | Е | 3.E |
| PTUSED | С | 2 | N | How often used public transportation | Е | 2 |
| RAIL | С | 2 | N | Presence/absence of rail | * | * |
| REF_AGE | N | 3 | s | Age of reference person (yr) | D | 3 |
| REF_EDUC | С | 2 | S | Education of HH reference person | F | 1 |

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| | | | (This page revised March 1999 |
|----------|---------------------------------------|--------|---|
| | Value Range and Codes: | | Comments: |
| | 98= Not ascertained | 17 | |
| | 99= Refused | 3 | |
| PTNTCLN | 01= Large problem | 682 | |
| | 02= Small problem | 1,350 | |
| | 03= No problem | 1,773 | |
| | 94= Legitimate skip | 91,544 | |
| | 98= Not ascertained | 10 | |
| | 99= Refused | 1 | |
| PTTIMEON | 01= Large problem | 1,809 | |
| | 02= Small problem | 2,755 | |
| | 03= No problem | 3,192 | |
| | 94= Legitimate skip | 87,566 | |
| | 98= Not ascertained | 34 | |
| | 99= Refused | 4 | |
| PTTMND | 01= Large problem | 779 | |
| | 02= Small problem | 1,222 | |
| | 03= No problem | 1,962 | |
| | 94= Legitimate skip | 91,382 | |
| | 98= Not ascertained | 15 | |
| | 99= Refused | 0 | |
| PTTRANSF | 01= Large problem | 561 | |
| | 02= Small problem | 1,170 | |
| | 03= No problem | 2,039 | |
| | 94= Legitimate skip | 91,544 | |
| | 98= Not ascertained | 44 | |
| | 99= Refused | 2 | |
| PTUSED | 01= Two or more days/week (11+ times) | 5,172 | |
| | 02= About once a week (5-10 times) | 1,457 | |
| | 03= Once or twice a month (2-4 times) | 2,817 | |
| | 04= Less than once a month (one time) | 2,048 | |
| | 05= Never | 38,541 | |
| | 06= Not available | 27,982 | |
| | 94= Legitimate skip | 17,082 | |
| | 98= Not ascertained | 239 | |
| | 99= Refused | 22 | |
| RAIL | 01= Yes | 6,908 | 01=Urban areas 1,250,000 population or greater with subway/elevated rail,02=other areas |
| | 02= No | 88,452 | areas |
| | 94= Legitimate skip | 00,432 | |
| | 98= Not ascertained | 0 | |
| | 99= Refused | 0 | |
| REF_AGE | (16 - 88) | 95, | 360 |
| | 16-75= Ages 16-75 | 91,023 | |
| | 77= Ages 76-79 | 2,003 | |
| | 82= Ages 80-84 | 1,508 | |
| | 88= Ages 85-100 | 812 | |
| | 998= Not Ascertained | 6 | |
| | 999= Refused | 8 | |
| REF EDUC | 11= Less than high school graduate | 9,115 | |
| | 12= High school graduate include GED | 29,335 | |
| | | | |

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| M | (This page revised March | | | page revised March 1999) | | |
|---------------------|--------------------------|--------|-----------|-------------------------------------|----------|----------|
| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
| | | | | Education of HH reference person | | 1 |
| REF_ROST | N | 2 | N | Reference roster number | А | 2 |
| REF_SEX | С | 2 | S | Sex of ref person | D | 4 |
| R_AGE | N | 3 | S | Age of sample person | D | 3 |
| R_AGEFLG | С | 2 | N | Age imputed | * | * |
| R_RELAT | C | 2 | S | Relationship to ref person | D | 7 |
| | | | | | | |
| R_SEX | a | 2 | S | Sex of sample person | D | 4 |
| R_SEA SAMEPLC | C | 2 | N | Same place all day | G | 13 |
| SIT2AMTR | С | 2 | N | Usually sit or stand most on AMTRAK | F | 12.1 |
| | | | | | | |

Usually sit or stand most on bus

F

12.2

Progid: disk46:[wmynpts.pubfiles]cbrp_per.sas Date: 26SEP97

N

2

SIT2BUS C



| | Value Range and Codes: | Freqs: (| Comments: |
|----------|---|---|---|
| | 21= Some college, but no degree 22= Associate degree in college 24= Bachelor's degrees 25= Some graduate/professional degree 26= Graduate/professional shoool degrees 94= Legitimate skip 98= Not ascertained 99= Refused | 17,506 5,440 16,245 2,277 11,041 0 4,226 175 | |
| REF_ROST | 1 2 3 4 5 | 95,194 F 45 40 37 23 21 | Roster number of Household reference person |
| REF_SEX | 01= Male 02= Female | 64,910 30,450 | |
| R_AGE | (5 - 88) 5-75= (ages 5-75) 77= (ages 76-79) 82= (ages 80-84) 88= (ages 85-102) | 95,36 91,3 1,358 868 | |
| R_AGEFLG | 01= Yes 02= No | 1,107 94,253 | |
| r_relat | 01= Reference person 02= Spouse of ref. person 03= Child of ref. person 04= Parent of ref. person 05= Brother/sister of ref. person 06= Other relative of ref. person 07= Unmarried partner of ref. person 08= Non-relative of ref. person 98= Not ascertained 99= Refused | | Sample persons relationship to the household reference person |
| R_SEX | 01= Male 02= Female | 45,159 50,201 | |
| SAMEPLC | 01= Same place all day 02= Was not same place all day | | Sample person didn't go anywhere on travel day |
| SIT2AMTR | | 0 2 95,358 0 0 | |
| SIT2BUS | 01= Sit 02= Stand 94= Legitimate skip 98= Not ascertained | 289 135 94,921 15 | |

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| Target Variable: | Var Type: | Width: | | Variable Label: | Section: | |
|---------------------|--------------|--------|---|--|----------|------|
| SIT2BUS | | 2 | N | Usually sit or stand most on bus | | 12.2 |
| SIT2SBWY | C | 2 | N | Usually sit or stand most on subway | F | 12.3 |
| SIT2STCR | С | 2 | N | Usually sit/stand most on strcr/trolley | F | 12.4 |
| SIT2TRAN | С | 2 | N | Usually sit or stand most on comm train | F | 12.5 |
| | | | | - | | |
| SITAMTR | С | 2 | N | Usually sit, stand or both on AMTRAK | F | 11.1 |
| | | | | | | |
| SITBUS | C | 2 | N | Usually sit, stand or both on bus | F | 11.2 |
| | | | | | | |
| SITSBWY | C | 2 | N | Usually sit/stand/both on rail/subway | F | 11.3 |
| SITSTCR | С | 2 | N | Usually sit/stand/both on strtcr/trolley | F | 11.4 |
| SITTRAN | С | 2 | N | Usually sit/stand/both on commuter train | F | 11.5 |

| Target | | | |
|----------|------------------------|-------------|-----------|
| Variable | Value Range and Codes: | Freqs: | Comments: |
| | | | |
| | | | |
| | 99= Refused | 0 | |
| | | | |
| SIT2SBWY | 01= Sit | 88 | |
| | 02= Stand | 65 | |
| | 94= Legitimate skip | 95,199 | |
| | 98= Not ascertained | 8 | |
| | 99= Refused | 0 | |
| | JJ= Relused | O O | |
| SIT2STCR | 01- 01+ | 7 | |
| SIIZSICK | | 3 | |
| | 02= Stand | | |
| | 94= Legitimate skip | 95,348 | |
| | 98= Not ascertained | 2 | |
| | 99= Refused | 0 | |
| | | | |
| SIT2TRAN | | 99 | |
| | 02= Stand | 58 | |
| | 94= Legitimate skip | 95,195 | |
| | 98= Not ascertained | 8 | |
| | 99= Refused | 0 | |
| | | | |
| SITAMTR | 01= Sit only | 10 | |
| | 02= Stand only | 1 | |
| | 03= Some of both | 2 | |
| | 94= Legitimate skip | 95,346 | |
| | 98= Not ascertained | 93,340 1 | |
| | 99= Refused | 0 | |
| | 99= Relused | U | |
| GTERRITO | 01 0:5 | 1 040 | |
| SITBUS | 01= Sit only | 1,240 | |
| | 02= Stand only | 165 | |
| | 03= Some of both | 439 | |
| | 94= Legitimate skip | 93,465 | |
| | 98= Not ascertained | 49 | |
| | 99= Refused | 2 | |
| | | | |
| SITSBWY | 01= Sit only | 152 | |
| | 02= Stand only | 147 | |
| | 03= Some of both | 161 | |
| | 94= Legitimate skip | 94,167 | |
| | 98= Not ascertained | 733 | |
| | 99= Refused | 0 | |
| | JJ= Relused | 0 | |
| SITSTCR | 01= Sit only | 11 | |
| SIISICK | | | |
| | 02= Stand only | 3 | |
| | 03= Some of both | 12 | |
| | 94= Legitimate skip | 95,330 | |
| | 98= Not ascertained | 4 | |
| | 99= Refused | 0 | |
| | | | |
| SITTRAN | 01= Sit only | 458 | |
| | 02= Stand only | 68 | |
| | 03= Some of both | 165 | |
| | 94= Legitimate skip | 94,660 | |
| | <u> </u> | | |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | | Item ID: |
|---------------------|--------------|--------|-----------|--|---|----------|
| SITTRAN | С | 2 | N | Usually sit/stand/both on commuter train | | 11.5 |
| SUBSTRAT | N | 1 | * | Substratum within VARSTRAT | * | * |
| TDAY_MON | N | 2 | S | Travel day date (MM) | * | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| TDAY_YR | N | 2 | S | Travel day date (YY) | * | * |
| TIMELEAV | N | 4 | N | Time usually leave for work | F | 6 |
| | | | | | | |
| TIMETOWK | N | 3 | N | Minutes it took from home to work | F | 7 |
| UNITDIST | C | 2 | N | Unit of distance to work | F | 5.2 |
| | | | | | | |
| USULDRV | С | 2 | N | Usually drive to work alone or carpool | F | 15 |
| | | | | | | |
| VARSTRAT | N | 2 | S | Sample stratum | * | * |
| WAITAMTR | N | 3 | N | Minutes wait for AMTRAK | F | 10.1 |
| | | | | | | |
| WAITBUS | N | 3 | N | Minutes wait for bus | F | 10.2 |

Target.

| Vai | rget riable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-----|-----------------|--------------|--------|-----------|---------------------------------------|----------|----------|
| | ITBUS | N | 3 | N | Minutes wait for bus | F | 10.2 |
| WAI | ITSBWY | N | 3 | N | Minutes wait for elevated rail/subway | F | 10.3 |
| WAI | ITSTCR | N | 3 | N | Minutes wait for streetcar/trolley | F | 10.4 |
| WAI | ITTRAN | N | 3 | N | Minutes wait for commuter train | F | 10.5 |
| WKI | BYAIR | С | 2 | N | Get to work usually by airplane | F | 8.14 |
| WKI | BYAMTR | С | 2 | N | Get to work usually by AMTRAK | F | 8.1 |
| WKE | BYAUTO | С | 2 | N | Get to work usually by auto | F | 8.01 |
| WKE | BYBIKE | С | 2 | N | Get to work usually by bicycle | F | 8.16 |
| WKE | BYBUS | С | 2 | N | Get to work usually by bus | F | 8.09 |
| WKE | BYHOME | С | 2 | N | Worked from home | F | 8.19 |

48,681

50

94= Legitimate skip

98= Not ascertained

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | |
|---------------------|--------------|--------|-----------|--|----------|------|
| WKBYHOME | | 2 | N | Worked from home | F | 8.19 |
| WKBYMCYC | | 2 | N | Get to work usually by motorcycle | F | 8.07 |
| WKBYOPOV | С | 2 | N | Get to work usually by other POV | F | 8.08 |
| WKBYOTHR | С | 2 | N | Get to work by other means | F | 8.2 |
| WKBYOTTK | С | 2 | N | Get to work usually by other truck | F | 8.05 |
| WKBYRV | С | 2 | N | Get to work usually by RV | F | 8.06 |
| WKBYSBWY | C | 2 | N | Get to work usually by elev. rail/subway | F | 8.13 |
| WKBYSCBS | C | 2 | N | Get to work usually by school bus | F | 8.18 |
| WKBYSTCR | С | 2 | N | Get to work usually by strtcar/trolley | F | 8.12 |
| WKBYTAXI | С | 2 | N | Get to work usually by taxi | F | 8.15 |

232 46,397

WKBYTAXI 01= Yes

02= No

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|--|----------|----------|
| WKBYTAXI | С | 2 | N | Get to work usually by taxi | F | 8.15 |
| WKBYTRAN | С | 2 | N | Get to work usually by commuter train | F | 8.11 |
| WKBYTRUK | С | 2 | N | Get to work usually by pickup truck | F | 8.04 |
| WKBYUV | С | 2 | N | Get to work usually by UV | F | 8.03 |
| WKBYVAN | С | 2 | N | Get to work usually by van | F | 8.02 |
| WKBYWALK | С | 2 | N | Get to work usually by walking | F | 8.17 |
| WKFMHM2M | С | 2 | N | Worked from home any day last two month? | F | 20 |
| WKFMHMLW | C | 2 | N | Worked from home any day last week? | F | 19 |

Target.

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| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|--|----------|----------|
| | | | | How often worked from home last 2 months | | |
| | | | | | | |
| | | | | | | |
| WORKDAYS | N | 2 | S | Days per week on job | G | 8 |
| | | | | | | |
| WORKER | С | 2 | S | Respondent is a worker | D | 12 |
| | | | | | | |
| WORKLOC | N | 2 | * | Work location | * | * |
| WORKSTAT | С | 2 | N | State of workplace | F | 4.2 |

| | Value Range and Codes: | Freqs: Comments: |
|----------|--|--|
| WKFMHMXX | 01= Two or more days/week (11+ times) | 4,850 Their question was asked of persons answering YES to F-19 or F-20. A response of 1 was imputed for persons who said they worked at home in questions F-4 or F-5. See documentation notes for WKFMHMXX |
| | 02= About once a week (5-10 times) 03= Once or twice a month (2-4 times) 04= Less than once a month (one time) 05= Never 06= Not available 94= Legitimate skip 98= Not ascertained 99= Refused | 927 1,881 753 121 0 86,625 193 |
| WORKDAYS | 1 2 3 4 5 6 7 94= legitimate skip 98= Not ascertained | 6 18 23 51 671 160 71 94,332 28 |
| WORKER | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 51,928 Response to question D-12, as verified or corrected by the response to F-2 43,432 0 0 0 |
| WORKLOC | 1= Work from home 2= No fixed work place 3= Work at work location 94= Legitimate skip 98= Not ascertained | 2,931 1,024 47,783 43,622 0 |
| WORKSTAT | State population < 2 million Not ascertained Refused AK AL AR AZ CA CO CT DC DE Foreign Country FL GA HI | 2,082 48,287 55 0 308 250 223 2,412 330 427 0 0 4 1,104 638 0 |

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Target Var
Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID:

WORKSTAT C 2 N State of workplace F 4.2

WRKCOUNT N 2 WRKRCNT No. of workers in HH

WRKDRIVE C 2 S Drive lisensed vehicle in work G 3

43,459

Progid: disk46:[wmynpts.pubfiles]cbrp_per.sas Date: 26SEP97

02= No

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| Variable: | Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-----------|-------|--------|-----------|--------------------------------------|----------|----------|
| WRKDRIVE | С | 2 | S | Drive lisensed vehicle in work | G | 3 |
| WRKMILES | N | 3 | N | Travel day miles driven on job | G | 6 |
| WRKTRANS | С | 2 | S | Main means of transportation to work | F | 9 |

| WRKTRPS | C | 2 | N | 10 or more trips on job during day | G | 5 |
|----------|---|---|---|------------------------------------|---|---|
| | | | | | | |
| WRKVTYPE | С | 2 | S | Type vehicle driven on job | G | 7 |

| | Value Range and Codes: | Freqs: | Comments: |
|----------|-------------------------------|--------------|-----------|
| | | | |
| | 94= Legitimate skip | 46,193 | |
| | 98= Not ascertained | 138 | |
| | 99= Refused | U | |
| WRKMILES | (1 - 800) | 936 | |
| | 994= Legitimate skip | 94,332 | |
| | 998= Not ascertained | 91 | |
| | 999= Refused | 1 | |
| WRKTRANS | 01= Automobile | 34,329 | |
| | 02= Van | 1,639 | |
| | 03= Sport utility vehicle | 1,200 | |
| | 04= Pickup truck | 4,822 | |
| | 05= Other truck | 159 | |
| | 06= RV (recreational vehicle) | 13 | |
| | 07= Motorcycle | 65 | |
| | 08= Other private vehicle | 33 | |
| | 09= Bus | 1,161 | |
| | 10= Amtrak | 6 | |
| | 11= Commuter train | 547 | |
| | 12= Streetcar/trolley | 15 | |
| | 13= Subway/elevated rail | 825 | |
| | 14= Airplane | 19 | |
| | 15= Taxicab | 73 | |
| | 16= Bicycle 17= Walk | 200 1,326 | |
| | 18= School bus | 31 | |
| | 19= Other public transit | 9 | |
| | 20= Other | 155 | |
| | 94= Legitimate skip | 48,681 | |
| | 98= Not ascertained | 52 | |
| | 99= Refused | 0 | |
| WRKTRPS | 01= Yes | 1,028 | |
| WIGGING | 02= No | 4,541 | |
| | 94= Legitimate skip | 89,790 | |
| | 98= Not ascertained | 1 | |
| | 99= Refused | 0 | |
| WEKVTYDE | 01= Automobile | 319 | |
| | 02= Van | 162 | |
| | 03= Sport utility vehicle | 49 | |
| | 04= Pickup truck | 139 | |
| | 05= Other truck | 241 | |
| | 06= RV (recreational vehicle) | 2 | |
| | 07= Motorcycle | 2 | |
| | 08= Other private vehicle | 24 | |
| | 09= Bus | 26 | |
| | 10= School Bus | 40 | |
| | 11= Taxicab | 8 | |
| | 94= Legitimate skip | 94,332 | |
| | 98= Not ascertained | 15 | |
| | | | |

| | get iable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-----|----------------|--------------|--------|-----------|--|----------|----------|
| | VTYPE MPLDN | C N | 2 | S * | Type vehicle driven on job Jobs per square mile, census tract | G | 7 |
| WIF | MPLDN | N | 6 | • | Jobs per square mile, census tract | CLAR | • |
| | | | | | | | |
| | | | | | | | |
| WTI | NDAGR | N | 3 | * | Pct 16+ workers, agr/mining/const, CT | CLAR | * |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| WTI | NDFIN | N | 3 | * | Pct 16+ workers, fin/ins/rl est ind, CT | CLAR | * |
| | | | | | | | |
| | | | | | | | |
| WTI | NDMAN | N | 3 | * | Pct 16+ workers, manuf. industries, CT | CLAR | * |

| Target | | | |
|-------------|-------------------------|--------|-----------|
| | Value Range and Codes: | | Comments: |
| | | | |
| | 99= Refused | 1 | |
| | JJ= Relused | _ | |
| WTEMPLDN | 25= 0 to 49 | 3,998 | |
| | 150= 50 to 249 | 4,642 | |
| | 300= 250 to 499 | 2,951 | |
| | 750= 500 to 1K | 4,432 | |
| | 1500= 1K to 2K | 5,416 | |
| | 3000= 2K to 4K | 5,003 | |
| | 7000= 4K to 10K | 4,295 | |
| | 30000= 10K to 50K | 3,179 | |
| | 60000= 50K to 999K | 2,357 | |
| | 999994= Legitimate skip | 43,432 | |
| | 999998= Not ascertained | 15,655 | |
| WTINDAGR | 0= 0 to 4% | 22,663 | |
| W1111D11010 | 10= 5 to 14% | 11,603 | |
| | 20= 15 to 24% | 1,516 | |
| | 30= 25 to 34% | 333 | |
| | 40= 35 to 44% | 90 | |
| | 50= 45 to 54% | 28 | |
| | 60= 55 to 64% | 19 | |
| | 70= 65 to 74% | 12 | |
| | 80= 75 to 84% | 3 | |
| | 90= 85 to 94% | 3 | |
| | 95= 95 to 100% | 3 | |
| | 994= Legitimate skip | 43,432 | |
| | 998= Not ascertained | 15,655 | |
| WTINDFIN | 0= 0 to 4% | 22,090 | |
| | 10= 5 to 14% | 10,770 | |
| | 20= 15 to 24% | 1,997 | |
| | 30= 25 to 34% | 768 | |
| | 40= 35 to 44% | 313 | |
| | 50= 45 to 54% | 94 | |
| | 60= 55 to 64% | 104 | |
| | 70= 65 to 74% | 60 | |
| | 80= 75 to 84% | 76 | |
| | 90= 85 to 94% | 1 | |
| | 95= 95 to 100% | 0 | |
| | 994= Legitimate skip | 43,432 | |
| | 998= Not ascertained | 15,655 | |
| WTINDMAN | 0= 0 to 4% | 14,885 | |
| | 10= 5 to 14% | 9,944 | |
| | 20= 15 to 24% | 4,514 | |
| | 30= 25 to 34% | 2,628 | |
| | 40= 35 to 44% | 1,612 | |
| | 50= 45 to 54% | 1,217 | |
| | 60= 55 to 64% | 609 | |
| | 70= 65 to 74% | 373 | |
| | 80= 75 to 84% | 296 | |
| | 90= 85 to 94% | 173 | |
| | | | |

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1NPTS Person File Code Book - Public Use

Target Var

| Variable: | Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-----------|-------|--------|-----------|--|----------|----------|
| WTINDMAN | N | 3 | * | Pct 16+ workers, manuf. industries, CT | | * |
| WTINDRET | N | 3 | * | Pct 16+ workplace pop, retl trd ind, CT | CLAR | * |
| | | | | | | |
| | | | | | | |
| WTINDSVC | N | 3 | * | Pct 16+ workers, service industries, CT | CLAR | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| WTINDTRN | N | 3 | * | Pct 16+ workers, tran/comm/ util ind, CT | CLAR | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |

WTINDWHL N 3 * Pct 16+ workers, wholesale trade ind, CT CLAR *

Freqs: Comments:

| | 95= 95 to 100% 994= Legitimate skip 998= Not ascertained | 22 43,432 15,655 | |
|----------|--|---|--|
| WTINDRET | 0= 0 to 4% 10= 5 to 14% 20= 15 to 24% 30= 25 to 34% 40= 35 to 44% 50= 45 to 54% 60= 55 to 64% 70= 65 to 74% 80= 75 to 84% 90= 85 to 94% 95= 95 to 100% 994= Legitimate skip 998= Not ascertained | 4,012 13,220 9,920 4,968 2,330 1,140 492 128 39 24 0 43,432 | |
| WTINDSVC | 0= 0 to 4% 10= 5 to 14% 20= 15 to 24% 30= 25 to 34% 40= 35 to 44% 50= 45 to 54% 60= 55 to 64% 70= 65 to 74% 80= 75 to 84% 90= 85 to 94% 95= 95 to 100% 994= Legitimate skip 998= Not ascertained | 1,365 6,997 9,773 7,797 4,229 2,611 1,349 936 621 479 116 43,432 | |
| WTINDTRN | 0= 0 to 4% 10= 5 to 14% 20= 15 to 24% 30= 25 to 34% 40= 35 to 44% 50= 45 to 54% 60= 55 to 64% 70= 65 to 74% 80= 75 to 84% 90= 85 to 94% 95= 95 to 100% 994= Legitimate skip 998= Not ascertained | 24,669 9,175 1,564 433 211 85 68 41 24 1 2 43,432 | |
| WTINDWHL | 0= 0 to 4% 10= 5 to 14% 20= 15 to 24% 30= 25 to 34% 40= 35 to 44% 50= 45 to 54% | 23,250 10,005 2,025 670 235 54 | |

| | | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|----------|---|--------|-----------|--|----------|----------|
| WTINDWHL | N | 3 | * | Pct 16+ workers, wholesale trade ind, CT | CLAR | * |
| | | | | | | |
| | | | | | | |
| WTPERFIN | N | 11.5 | S | Final person wt person-nonresp adjusted | * | * |
| YEARMILE | N | 6 | S | How many miles did you drive per year | E | 8 |
| | | | | | | |
| | | | | | | |
| YEARMIL2 | N | 6 | S | Revised YEARMILE. | E | 8 |
| | | | | | | |
| | | | | | | |
| YMILEFLG | C | 2 | * | Yearmile mileage was capped at 200,000 | E | 8 |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | |
|---------------------|--------------|--------|-----------|--|----------|---|
| ANNMILES | N | 6 | S | Self-reported annualized vmt | В | 7 |
| ANNUALZD | N | 6 | * | Odometer-based annualized vmt | OAKR | * |
| ANN_EDIT | C | 2 | * | Flag any edits/adjustments to ANNUALZD | OAKR | * |
| ANN_FLG | С | 2 | * | Reasons for missing ANNUALZD value | OAKR | * |
| ANN_OUT | С | 2 | * | Flag identifying ANNUALZD outlier values | OAKR | * |
| ANULZDSE | N | 9.2 | * | Standard error of ANNUALZD estimate | OAKR | * |
| CENSUS_D | С | 2 | S | Census division | * | * |

| Target Variable | Value Range and Codes: | Freqs: | Comments: |
|--------------------|---|---------|---|
| ANNMILES | (0 - 115000) | 65,628 | Vehicle mileage reported in B-7 or E-9, converted to annual mileage based on B-5 response |
| | 999994= Legitimate skip | 0 | |
| | 999998= Not ascertained | 9,463 | |
| | 999999= Refused | 126 | |
| ANNUALZD | (0 - 115000) | 32,153 | Annualized mileage estimated from odometer readings |
| | 999994= Legitimate skip | 0 | |
| | 999998= Not ascertained | 43,064 | |
| | 999999= Refused | 0 | |
| ANN_EDIT | 01= ANNUALZD <odo, annualzd<="" days<366,="" set="" td=""><td>3,799</td><td>Crude estimate is 365 (daily rate obtained from odometer reading)</td></odo,> | 3,799 | Crude estimate is 365 (daily rate obtained from odometer reading) |
| | 02= ANNUALZD>odo, days>365, set ANNUALZD | 16 | |
| | 03= ANNUALZD<0, days>365, set ANNUALZD | 4 | |
| | 04= ANNUALZD capped at 115,000 | 568 | |
| | 05= Codes 1 and 4 | 1 | |
| | 94= Legitimate skip | 70,829 | |
| ANN_FLG | 01= Incomplete information | 32,811 | |
| | 02= Neg. diff. between 2 readings | 1,040 | |
| | 03= Diff. between 2 readings too large | 53 | |
| | 04= Reading spans a period of < 6 weeks | 419 | |
| | 05= Codes 1 and 2 | 33 | |
| | 06= Codes 2 and 4 07= Codes 3 and 4 | 16 5 | |
| | 08= Other, no primary driver | 4,099 | |
| | 09= Other, vehicle type 7 or 8 | 632 | |
| | 10= Estimated ANNUALZD was an outlier | 3,956 | |
| | 94= Legitimate skip | 32,153 | |
| ANN_OUT | 01= ANNUALZD<(crude estimate)/2 | 336 | Crude estimate is 365 (daily rate obtained from odometer reading) |
| | 02= ANNUALZD<(self estimate)/4 | 1,164 | (ddii) idde obodined iiom odomeddi iedding) |
| | 03= Codes 1 and 2 | 83 | |
| | 04= ANNUALZD>2*(crude estimate) | 75 | |
| | 05= ANNUALZD>4*(self estimate) | 2,293 | |
| | 06= Codes 4 and 5 | 5 | |
| | 94= Legitimate skip | 71,261 | |
| ANULZDSE | (3566 - 36676) | 32,147 | Standard error of the ANNUALZD estimate |
| | 999994= Legitimate skip | 0 | |
| | 999998= Not ascertained | 43,070 | |
| | 999999= Refused | 0 | |
| CENSUS D | 01= New England | 14,613 | |
| - | 02= Middle Atlantic | 20,731 | |
| | 03= East North Central | 6,865 | |
| | 04= West North Central | 2,898 | |
| | 05= South Atlantic | 7,524 | |
| | 06= East South Central | 2,278 | |
| | 07= West South Central | 11,230 | |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|------------------------------------|----------|----------|
| CENSUS_D | С | 2 | S | Census division | * | * |
| CENSUS_R | С | 2 | S | Census region | * | * |
| DRVRCNT | N | 2 | S | Number of drivers in HH | D | * |
| HBHINMED | N | 6 | * | Median household income, BG | CLAR | * |
| HBHRESDN | N | 6 | * | HU density (units/square mile), BG | CLAR | * |
| HBHUR | С | 1 | * | Urban/rural code, block group | CLAR | * |
| HBPPOPDN | N | 6 | * | Population density, block group | CLAR | * |

| | Value Range and Codes: | | Comments: |
|----------|--|------------------|----------------------------------|
| | 08= Mountain | 2,284 | |
| | 09= Pacific | 6,794 | |
| CENSUS_R | 01= Northeast | 35,344 | |
| | 02= North Central | 9,763 | |
| | 03= South 04= West | 21,032 9,078 | |
| DRVRCNT | 0 | 215 | Derived from the variable DRIVER |
| | 1 | 12,332 | |
| | 2 | 46,328 | |
| | 3 | 11,671 | |
| | 4 5 | 3,921 | |
| | 6 | 616 126 | |
| | 7 | 8 | |
| HBHINMED | 15,000= 0 to 20K | 4,186 | |
| | 22,000= 20K to 25K | 5,759 | |
| | 27,000= 25K to 30K | 8,624 | |
| | 32,000= 30K to 35K 37,000= 35K to 40K | 10,181 9,296 | |
| | 45,000= 40K to 50K | 15,950 | |
| | 60,000= 50K to 70K | 15,403 | |
| | 80,000= 70K to 999K | 5,278 | |
| | 999998= Not ascertained | 540 | |
| HBHRESDN | 25= 0 to 50 | 12,199 | |
| | 150= 50 to 250 700= 250 to 1000 | 13,718 17,696 | |
| | 2000= 1000 to 3000 | 21,186 | |
| | 4000= 3000 to 5000 | 5,518 | |
| | 6000= 5000 to 999K | 4,360 | |
| | 999998= Not ascertained | 540 | |
| HBHUR | 8= Not ascertained | 540 | |
| | C= Second city R= Rural | 14,529 | |
| | S= Suburban | 13,732 19,290 | |
| | T= Town | 20,182 | |
| | U= Urban | 6,944 | |
| HBPPOPDN | 50= 0 to 100 | 10,374 | |
| | 300= 100 to 500 | 13,310 | |
| | 750= 500 to 1K 1,500= 1K to 2K | 7,200 | |
| | 3,000= 1K to 2K 3,000= 2K to 4K | 9,062 12,831 | |
| | 7,000= 4K to 10K | 16,147 | |
| | 17,000= 10K to 25K | 4,419 | |
| | 30,000= 25K to 999K | 1,334 | |
| | 999998= Not ascertained | 540 | |
| | | | |

1NPTS Vehicle File Code Book - Public Use 09:09 Wednesday, September 24, 1997 5

Target Var Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID:

HHCMSA C 4 SMSA CMSA identification code * *

HHELGCNT N 2 S # of eligible persons in HH D 3

HHFAMINC C 2 S HH family income category K 1 & 2

Freqs: Comments:

Variable Value Range and Codes:

Target

| HHCMSA | 1602= Chicago-Gary-Kenosha, IL-IN-WI CMS | 1,416 | |
|----------|--|----------------|--|
| HICMSA | 1642= Cincinnati-Hamilton, OH-KY-IN CMSA | 312 | |
| | 1692= Cleveland-Akron, OH CMSA | 451 | |
| | 1922= Dallas-Fort Worth, TX CMSA | 596 | |
| | 2082= Denver-Boulder-Greeley, CO CMSA | 305 | |
| | 2162= Detroit-Ann Arbor-Flint, MI CMSA | 678 | |
| | 3362= Houston-Galveston-Brazoria, TX CMS | 477 | |
| | 4472= Los Angeles-Riverside-Orange Count | 1,799 | |
| | 4992= Miami-Fort Lauderdale, FL CMSA | 473 | |
| | 5082= Milwaukee-Racine, WI CMSA | 266 | |
| | 5602= New York-No. New Jersey-Long Islan | 7,645 | |
| | 6162= Philadelphia-Wilmington-Atlantic C | 976 | |
| | 6442= Portland-Salem, OR-WA CMSA | 400 | |
| | 6922= Sacramento-Yolo, CA CMSA | 293 | |
| | 7362= San Francisco-Oakland-San Jose, CA | 1,086 | |
| | 7602= Seattle-Tacoma-Bremerton, WA CMSA | 1,406 | |
| | 8872= Washington-Baltimore, DC-MD-VA-WV | 1,396 | |
| | 9998= Not in a CMSA | 55,242 | |
| HHELGCNT | 1 | 7,991 | Number of persons 5 years and older |
| | 2 | 32,023 | |
| | 3 | 15,821 | |
| | 4 | 12,991 | |
| | 5 | 4,602 | |
| | 6 | 1,339 | |
| | 7 | 316 | |
| | 8 | 100 | |
| | 9 10 | 21 13 | |
| | 10 | 13 | |
| HHFAMINC | 01= Less than \$5,000 | 624 | Based on questions of Section K.See olso NONFMFLG and NONFMINC |
| | 02= \$5,000 - 9,999 | 1,899 | |
| | 03= \$10,000 - 14,999 | 2,863 | |
| | 04= \$15,000 - 19,999 | 4,109 | |
| | 05= \$20,000 - 24,999 | 3,649 | |
| | 06= \$25,000 - 29,999 | 6,232 | |
| | 07= \$30,999 - 34,999 | 3,738 | |
| | 08= \$35,000 - 39,999 | 6,450 | |
| | 09= \$40,000 - 44,999 | 3,131 | |
| | 10= \$45,000 - 49,999 11= \$50,000 - 54,999 | 5,824 2,317 | |
| | 12= \$55,000 - 59,999 | 4,721 | |
| | 13= \$60,000 - 64,999 | 1,658 | |
| | 14= \$65,000 - 69,999 | 3,359 | |
| | 15= \$70,000 - 74,999 | 1,106 | |
| | 16= \$75,000 - 79,999 | 2,374 | |
| | 17= \$80,000 - 99,999 | 3,738 | |
| | 18= \$100,000 and over | 4,371 | |
| | 98= Not ascertained | 5,467 | |
| | 99= Refused | 7.587 | |

1,658 3,359 1,106 2,374 3,738 4,371 5,467 7,587

Progid: disk46:[wmynpts.pubfiles]cbrp_veh.sas Date: 24SEP97

98= Not ascertained 99= Refused

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|---|----------|----------|
| HHMSA | C | 4 | s | MSA identification code | * | * |
| HHSIZE | N | 2 | S | Total number of persons in HH | D | 1 |
| HHVEHCNT | N | 2 | S | No. of vehicles in household (derived) | В | * |
| HH_HISP | С | 2 | S | Hispanic status of ref. person | D | 5 |
| HH_RACE | С | 2 | S | Race of reference person | D | 6 |
| | | | | | | |
| HOUSEID | N | 8 | S | Household identification number | * | * |
| LIF_CYC | C | 2 | S | Family life cycle | D | 3 |
| | | | | | | |
| MAINDRVR | C | 2 | S | Does one HH mem. usually drive this veh | D | 14 |

Target
Variable Value Range and Codes:

| Variable | Value Range and Codes: | Freqs: | Comments: |
|----------|--|--|--|
| HHMSA | (0520 - 8840) | | |
| HHSIZE | 1 2 3 4 5 6 6 7 8 9 | 7,684 27,337 15,466 15,494 6,331 2,031 567 184 66 | Number of persons - all ages (derived) |
| HHVEHCNT | 1 2 3 4 5 6 7 8 9 | 12,678 36,554 17,148 5,952 1,890 624 217 80 54 | |
| HH_HISP | 01= Hispanic 02= Non-hispanic 98= Not ascertained 99= Refused | 2,500 72,577 53 87 | |
| HH_RACE | 01= White 02= African-american 03= Asian 04= Other 98= Not ascertained 99= Refused | 66,693 3,619 1,140 3,014 207 544 | |
| HOUSEID | (1000371 - 12227427) | 75,217 | |
| LIF_CYC | 01= 1 adult, no children 02= >1 adult, no children 03= 1 adult, child age 0-5 04= >1 adult, child age 0-5 05= 1 adult, child age 6-15 06= >1 adult, child age 6-15 07= 1 adult, child age 16-21 08= >1 adult, child age 16-21 09= 1 adult, retired, no children 10= >1 adult, retired, no children | 5,414 22,389 540 12,754 1,211 14,008 719 5,383 2,310 10,489 | See documentation notes for LIF_CYC |
| MAINDRVR | 01= Yes 02= No 94= Legitimate skip | 66,765 6,623 0 | |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | | Item ID: |
|---------------------|--------------|--------|-----------|---|---|----------|
| MAINDRVR | С | 2 | S | Does one HH mem. usually drive this veh | | 14 |
| MAKECODE | С | 2 | S | First 2 char of NASS code | В | 1 |
| MILELIMT | С | 2 | S | =1 if annmiles capped at 115K | В | 7 |
| MODLCODE | С | 3 | S | Last 3 char of NASS code | В | 1 |
| MSASIZE | C | 2 | S | Size of MSA of household | * | * |
| MSTR_MON | N | 2 | S | Date of master interview - month | * | * |
| MSTR_YR | N | 2 | S | Date of master interview - year | * | * |
| OD_DAY1 | N | 2 | N | Date of first odometer reading - day | * | * |
| OD_DAY2 | N | 2 | N | Date of second odomete reading - day | * | * |
| OD_MON1 | N | 2 | N | Date of first odometer reading - month | * | * |

Target

| | Value Range and Codes: | | | Comments: |
|----------|---|-----------|--|--|
| | 98= Not ascertained 99= Refused | | 1,763 66 | |
| MAKECODE | (01 - 99 |) | | NASS codes are described in appendix O |
| MILELIMT | 01= Yes 02= No | | 188 75,029 | |
| MODLCODE | (001 - 999 |) | | NASS codes are described in appendix O |
| MSASIZE | 01= Less than 250,000 02= 250,000 - 499,999 03= 500,000 - 999,999 04= 1,000,000 - 2,999,999 05= 3,000,000 or more 94= Legitimate skip, not i | .n an MSA | 7,208 4,897 9,514 14,974 26,986 11,638 | See documentation notes for MSASIZE |
| MSTR_MON | 1= January 2= February 3= March 4= April 5= May 6= June 7= July 8= August 9= September 10= October 11= November 12= December | | 6,926 6,360 7,286 6,057 9,048 7,375 4,995 4,612 4,984 6,014 6,364 5,196 | Date of the household interview |
| MSTR_YR | 95 96 | | 44,282 30,935 | Date of the household interview |
| OD_DAY1 | (1 - 31) 98= Not ascertained | | 65,079 10,138 | |
| OD_DAY2 | (1 - 31) 98= Not ascertained | | 42,321 32,896 | |
| OD_MON1 | 1= January 2= February 3= March 4= April 5= May 6= June 7= July 8= August 9= September 10= October 11= November 12= December 98= Not ascertained | | 3,622 5,728 7,190 6,030 7,409 6,227 5,269 4,371 4,406 5,414 5,193 4,220 | |

| Target Variable: | | Width: | 1990 Var: | Variable Label: | | Item ID: |
|---------------------|---|--------|-----------|--|---|----------|
| OD_MON2 | N | 2 | N | Date of second odomete reading - month | | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| OD_READ1 | N | 6 | N | First odometer reading | * | * |
| | | | | | | |
| OD_READ2 | N | 6 | N | Second odometer reading | * | * |
| | | | | | | |
| OD_YR1 | N | 2 | N | Date of first odometer reading - year | * | * |
| OD_YR2 | N | 2 | N | Date of second odomete reading - year | * | * |
| PURCHMON | N | 2 | N | Month of purchase | В | 5 |
| | | | | | | |
| | | | | | | |

PURCHYR N 4 N Year vehicle was purchas (yyyy) B 5

Target

| Target | | | |
|----------|--------------------------------|--------|--|
| | Value Range and Codes: | | Comments: |
| | | | |
| OD_MON2 | 1= January | 1,146 | |
| | 2= February | 1,270 | |
| | 3= March | 1,952 | |
| | 4= April | 4,120 | |
| | 5= May | 4,613 | |
| | 6= June | 14,035 | |
| | 7= July | 5,748 | |
| | 8= August | 2,689 | |
| | 9= September | 910 | |
| | 10= October | 1,296 | |
| | 11= November | 1,499 | |
| | 12= December | 3,043 | |
| | 98= Not ascertained | 32,896 | |
| OD_READ1 | (0 - 997564) | 65,056 | |
| | 999995= No longer have vehicle | 0 | |
| | 999996= Broken odometer | 0 | |
| | 999998= Not ascertained | 10,154 | |
| | 999999= Refused | 7 | |
| OD_READ2 | (2 - 999625) | 40,689 | |
| | 999995= No longer have vehicle | 5,553 | |
| | 999996= Broken odometer | 331 | |
| | 999998= Not ascertained | 23,246 | |
| | 999999= Refused | 5,398 | |
| OD_YR1 | 95= 1995 | 36,031 | |
| | 96= 1996 | 29,049 | |
| | 98= Not ascertained | 10,137 | |
| OD_YR2 | 95= 1995 | 7,694 | |
| _ | 96= 1996 | 34,627 | |
| | 98= Not ascertained | 32,896 | |
| PURCHMON | 1= January | 1,090 | Month vehicle obtained, if in past 12 months |
| | 2= February | 1,109 | • • |
| | 3= March | 1,245 | |
| | 4= April | 1,260 | |
| | 5= May | 1,344 | |
| | 6= June | 1,400 | |
| | 7= July | 1,238 | |
| | 8= August | 1,379 | |
| | 9= September | 1,146 | |
| | 10= October | 1,374 | |
| | 11= November | 1,301 | |
| | 12= December | 1,008 | |
| | 94= Legitimate skip | 59,191 | |
| | 98= Not ascertained | 1,063 | |
| | 99= Refused | 69 | |
| PURCHYR | 1994 | 2,744 | |
| | 1995 | 11,490 | |
| | | , | |
| | | | |

Target Var

| Variable: | Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-----------|-------|--------|-----------|-----------------------------------|----------|----------|
| PURCHYR | N | 4 | N | Year vehicle was purchas (yyyy) | | 5 |
| RAIL | С | 2 | N | Presence/absence of rail | * | * |
| SUBSTRAT | N | 1 | * | Substratum within VARSTRAT | * | * |
| SUM_STAT | С | 3 | N | Summary status code for household | * | * |
| TDAY_MON | N | 2 | S | Travel day date (MM) | * | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| TDAY_YR | N | 2 | S | Travel day date (YY) | * | * |
| VARSTRAT | N | 2 | S | Sample stratum | * | * |
| VEH12MNT | С | 2 | S | Vehicle received in last 12 mo | * | * |
| | | | | | | |
| VEHID | N | 2 | S | HH vehicle number | G | 24 |

| | Value Range and Codes: | | Comments: |
|----------|--|--|---|
| | 1996 9994= Legitimate skip 9998= Not ascertained 9999= Refused | 1,360 59,191 385 47 | |
| RAIL | 01= Yes | 5,165 | 01=Urban areas 1,250,000 population or greater with subway/elevated rail,02=other areas |
| | 02= No | 70,052 | |
| SUBSTRAT | 1 2 | 1,243 73,974 | |
| SUM_STAT | 050 - All elig persons completed intervi | 63,003 | 50=all adults responded, 51=at least 50% of adults responded |
| | 051 - >50% of adults completed interview | 12,214 | |
| TDAY_MON | 1= January 2= February 3= March 4= April 5= May 6= June 7= July 8= August 9= September 10= October 11= November 12= December | 4,463 6,452 8,342 6,693 8,723 6,869 5,806 4,727 5,214 5,911 6,030 5,987 | Date of travel day for the household |
| TDAY_YR | 95 96 | 42,037 33,180 | Date of travel day for the household |
| VARSTRAT | (1 - 70) | 75,217 | |
| VEH12MNT | 01= Yes 02= No 94= Legitimate skip 98= Not ascertained 99= Refused | 15,609 59,191 0 372 45 | |
| VEHID | 1 2 3 4 5 6 7 8 9 | 38,633 25,988 7,780 2,041 540 153 50 20 9 | |

| Target Variable: | | Width: | 1990 Var: | Variable Label: | | Item ID: |
|---------------------|---|--------|-----------|---------------------------------|---|----------|
| VEHMILES | N | 6 | S | Reported mileage for last 12 mo | | 7 |
| VEHNEW | С | 2 | S | Purchased new (=1) or used (=2) | В | 6 |
| VEHTYPE | С | 2 | S | Vehicle type | В | 3 |
| | | | | | | |
| VEHYEAR | N | 4 | S | Model year of veh (yyyy) | В | 2.3 |

| Target | |
|--------|--|
| | |

| | Value Range and Codes: | | Comments: |
|----------|-------------------------------|------------|---|
| VEHMILES | (0 - 500000) | 66,313 | Miles vehicle was driven in past 12 months, |
| | | | as reported in B-7 or in E-9 |
| | 999998= Not ascertained | 8,778 | |
| | 999999= Refused | 126 | |
| VEHNEW | 01= Yes | 35,726 | |
| | 02= No | 38,760 | |
| | 94= Legitimate skip | 0 | |
| | 98= Not ascertained | 620 | |
| | 99= Refused | 111 | |
| VEHTYPE | 01= Automobile | 49,409 | |
| VEHILLE | 02= Van | 6,026 | |
| | 03= Sport utility vehicle | 5,414 | |
| | 04= Pickup truck | 12,001 | |
| | 05= Other truck | 274 | |
| | 06= RV (recreational vehicle) | 333 | |
| | 07= Motorcycle | 742 | |
| | 08= Other POV | 82 | |
| | 98= Not ascertained | 919 | |
| | 99= Refused | 17 | |
| | 1055 1010 + 1064 | 442 | |
| VEHYEAR | 1955= 1919 to 1964 | 443 711 | |
| | 1967= 1965 to 1969 1970 | 188 | |
| | 1970 | 197 | |
| | 1972 | 280 | |
| | 1972 | 278 | |
| | 1974 | 283 | |
| | 1975 | 272 | |
| | 1976 | 489 | |
| | 1977 | 653 | |
| | 1978 | 951 | |
| | 1979 | 1,178 | |
| | 1980 | 863 | |
| | 1981 | 986 | |
| | 1982 | 1,279 | |
| | 1983 | 1,772 | |
| | 1984 | 3,036 | |
| | 1985 | 3,954 | |
| | 1986 | 4,881 | |
| | 1987 | 5,316 | |
| | 1988 | 5,554 | |
| | 1989 | 6,001 | |
| | 1990 | 4,991 | |
| | 1991 | 5,106 | |
| | 1992 | 5,163 | |
| | 1993 | 5,621 | |
| | 1994 | 5,983 | |
| | 1995 | 5,223 | |
| | 1996 | 973 | |
| | 1997 | 23 | |
| | | | |

| Target Variable: | Type: | | | Variable Label: | | Item ID: |
|---------------------|-------|------|---------|-----------------------------|----|----------|
| | | | | Model year of veh (yyyy) | | 2.3 |
| WHOMAIN | C | 2 | N | Who drives veh most of time | D | 15 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| WRKCOUNT | N | 2 | WRKRCNT | No. of workers in HH | * | * |
| | | | | | | |
| | | | | | | |
| WTHHFIN | M | 11 5 | c | Final household weight | * | * |
| MIUUL IN | IA | 11.5 | ۵ | rinai nousenoia weight | •• | == |

Target

| Variable | Value Range and Codes: | Freqs: | Comments: |
|----------|------------------------|--------------|---|
| | 9998= Not ascertained | 2,569 | |
| WHOMAIN | 01 | | Person ID for main driver of vehicle |
| | 02 03 | 23,752 | |
| | | 4,168 | |
| | 04 05 | 1,039 187 | |
| | 06 | 38 | |
| | 07 | 5 | |
| | 08 | 4 | |
| | 94= Legitimate skip | 6,623 | |
| | 98= Not ascertained | 1,765 | |
| | 99= Refused | 66 | |
| WRKCOUNT | 0 | 10,638 | Derived from WORKER variable |
| | 1 | 21,294 | |
| | 2 | 33,002 | |
| | 3 | 7,539 | |
| | 4 | 2,323 | |
| | 5 | 348 | |
| | 6 | 63 | |
| | 7 | 9 | |
| | 8 | 1 | |
| WTHHFIN | (0 - 47981) | 75,217 | Used to weight household file and vehicle file data |

Target Var
Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID: AWAYHOME C 2 N Reason started day away from home G 18

| * |
|---|
| |
| |
| * |
| |

Target

| Target Variable | Value Range and Codes: | Freqs: | Comments: |
|--------------------|--|------------------|--|
| | | | |
| AWAYHOME | 01= To work | 834 | Asked only when first trip was to home |
| | 02= Work-related business | 36 | |
| | 03= Return to work | 0 | |
| | 04= Shopping | 4 | |
| | 05= School | 16 | |
| | 06= Religious activity | 3 | |
| | 07= Medical/dental | 19 | |
| | 08= Other family or personal bus 09= Take someone somewhere | 83 4 | |
| | 10= Pick up someone | 6 | |
| | 11= Vacation | 83 | |
| | 12= Visit friends or relatives | | |
| | 13= Went out to eat | 4 | |
| | 14= Other social/recreational | 121 | |
| | 15= Change means of transportati | 0 | |
| | 16= Other, specify | 48 | |
| | 17= Home | 2 | |
| | 94= Legitimate skip | 407,129 | |
| | 98= Not ascertained | 265 | |
| | 99= Refused | 0 | |
| CENSUS_D | 01= New England | 83,567 | |
| | 02= Middle Atlantic | 118,666 | |
| | 03= East North Central | 37,201 | |
| | 04= West North Central | 14,918 | |
| | 05= South Atlantic | 38,241 | |
| | 06= East South Central | 11,248 | |
| | 07= West South Central 08= Mountain | 58,635 12,070 | |
| | 09= Pacific | 34,479 | |
| | U)- FACILIC | 34,413 | |
| CENSUS_R | 01= Northeast | 202,233 | |
| | 02= North Central | 52,119 | |
| | 03= South | 108,124 | |
| | 04= West | 46,549 | |
| CHAIN | 1 | 194,036 | See documentation notes for CHAIN |
| | 2 | 113,372 | |
| | 3 | 56,707 | |
| | 4 | 24,423 | |
| | 5 6 | 10,563 4,677 | |
| | 7 | 2,317 | |
| | 8 | 1,275 | |
| | 9 | 745 | |
| | 10 | 391 | |
| | 11 | 238 | |
| | 12 | 132 | |
| | 13 | 74 | |
| | 14 | 41 | |
| | 15 | 22 | |
| | 16 | 4 | |
| | | | |

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D 9

1NPTS Travel Day File Code Book - Public Use

Var

Target

Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID: CHAIN N 2 N Trip chain number for this person G * CHAINTRP N 2 N # of trip within chain G * DATEFIG C 1 N Intrv date imputed from trav date plus o G * Trip started AM or PM G17A G 17.04 DAYNIGHT C 2 S DAYNGHT2 C 2 S Corrected DAYNIGHT Variable DIFFDATE N 3 S Days between travel & interview dates G

Progid: disk46:[wmynpts.pubfiles]cbrp_tday.sas Date: 24SEP97

DRIVER C 2 LIC_DRVR Person is a driver D9

| | Value Range and Codes: | | Comments: |
|----------|---|--|--|
| | 17 18 19 20 21 22 | 2 2 1 1 1 | |
| CHAINTRP | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 | 197,748 126,086 43,713 20,975 10,029 5,070 2,558 1,365 716 372 189 98 50 31 15 3 2 2 2 2 | See documentation notes for CHAIN |
| DATEFLG | 01= Yes 02= No | 1,362 407,663 | Interview date imputed as travel day plus one |
| DAYNIGHT | 98= Not ascertained 99= Refused AM PM | 111 8 137,520 271,386 | |
| | 98= Not ascertained AM PM | 137, 271, | |
| DIFFDATE | 1 2 3 4 5 6 7 | 126,106 81,890 60,269 54,490 47,414 38,750 | Indicates days after travel day when person and trip date were collected |
| DRIVER | 01= Yes 02= No 94= Legitimate skip 98= Not Ascertained 99= Refused | 324,343 84,680 0 2 | Driver status reported in D-9, as verified or corrected in E-6 or E-7 |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | | Item ID: |
|---------------------|--------------|--------|-----------|--|------|----------|
| DRVRCNT | N | 2 | S | Number of drivers in HH | D | * |
| DRVR_FLG | С | 2 | S | 1= person drove on trip | G | 21&38 |
| DWEL2_HM | N | 4 | N | DWELTIM2 in easy to HH:MM format | G | * |
| DWELSEC2 | N | 4 | N | Time in seconds spent at destination of current record calcluated by STRTIM2 | G | * |
| DWELTIME | N | 4 | N | Time spent at destination of prev trip | G | 17 |
| | | | | | | |
| DWELTIM2 | N | 4 | N | Time spent at destination of current record and calculated using STRTIM2 | G | * |
| EDITMILE | С | 2 | S | 1= trip miles were edited | G | 22 |
| EDITMODE | С | 2 | S | 1= transportation mode was edited | G | 25 |
| EDITNONH | С | 2 | N | 1= variable NONHHCNT was edited | G | 40 |
| EDIT_MIN | C | 2 | S | 1= trip duration was edited | G | 27 |
| FROM_A | С | 1 | N | Where trip chain started (H,W,S) | G | 16 |
| | | | | | | |
| FRSTHM | С | 2 | N | 1=persons 1st trip began at home | G | 19 |
| | | | | | | |
| HBHINMED | N | 6 | * | Median household income, BG | CLAR | * |
| | | | | | | |
| | | | | | | |

HBHRESDN N 6 * HU density (units/square mile), BG CLAR *

| | Value Range and Codes: | | Comments: |
|----------|--|---|---|
| DRVRCNT | 0 1 2 3 4 5 6 | 8,778 68,389 244,382 64,340 19,457 3,082 574 | Derived from the variable DRIVER |
| DRVR_FLG | | | Indicates that the sample person drove on the trip (PERSONID=WHODROVE) |
| | 02= No | 156,451 | |
| DWEL2_HM | (0 - 1250) | 409,025 | Shows DWELTIM2 in easy to read HH:MM format. |
| DWELSEC2 | (0 - 75,000) | 409,025 | Variable is DWLETIM2 in Seconds. |
| DWELTIME | (-540 - 1250) | 409,025 | Calculated as the minutes at the destination of the previous trip, before starting the current trip. Missing for each person's first trip on travel day, and when STRTTIME or TRVL_MIN was not determined. |
| | (0 - 1250) 0 1-1250 dissing | | New variable compareable to DWELTIME except DWELTIM2 04 sets negative values to missing. |
| EDITMILE | 01= Yes 02= No | 20 409,005 | |
| EDITMODE | 01= Yes 02= No | 15 409,010 | |
| EDITNONH | 01= Yes 02= No | 934 408,091 | |
| EDIT_MIN | 01= Yes 02= No | 1,752 407,273 | |
| FROM_A | 8= Not Ascertained H= Home S= Other W= Work | 0 311,744 19,345 77,936 | See documentation notes for CHAIN |
| FRSTHM | 01= Yes 02= No 94= Legitimate skip 98= Not Ascertained 99= Refused | 76,148 2,599 327,426 2,852 0 | Asked when the person's first trip was not to home |
| HBHINMED | 15,000= 0 to 20K 22,000= 20K to 25K 27,000= 25K to 30K 32,000= 30K to 35K 37,000= 35K to 40K 45,000= 40K to 50K 60,000= 50K to 70K 80,000= 70K to 999K 999998= Not ascertained | 27,558 32,612 47,386 55,152 49,987 84,220 81,849 27,615 2,646 | |
| HBHRESDN | 25= 0 to 50 | 57,776 | |

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K 1 & 2

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Target Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID:

HEHRESDN N 6 * HU density (units/square mile), BG CLAR *

HEHUR C 1 * Urban/rural code, block group CLAR *

HEPPOPIN N 6 * Population density, block group CLAR *

Progid: disk46:[wmynpts.pubfiles]cbrp_tday.sas Date: 24SEP97

HHFAMINC C 2 S HH family income category

| | Value Range and Codes: | Freqs: | Comments: |
|----------|---------------------------------|---------|--|
| | | | |
| | 150= 50 to 250 | 69,304 | |
| | 700= 250 to 1000 | 94,608 | |
| | 2000= 1000 to 3000 | 116,942 | |
| | 4000= 3000 to 5000 | 32,771 | |
| | 6000= 5000 to 999K | 34,978 | |
| | 999998= Not ascertained | 2,646 | |
| HBHUR | 8= Not ascertained | 2,646 | |
| | C= Second city | 82,719 | |
| | R= Rural | 66,816 | |
| | S= Suburban | 102,788 | |
| | T= Town | 105,507 | |
| | U= Urban | 48,549 | |
| HBPPOPDN | 50= 0 to 100 | 48,565 | |
| | 300= 100 to 500 | 66,491 | |
| | 750= 500 to 1K | 38,355 | |
| | 1,500= 1K to 2K | 48,184 | |
| | 3,000= 2K to 4K | 69,730 | |
| | 7,000= 4K to 10K | 91,408 | |
| | 17,000= 10K to 25K | 28,544 | |
| | 30,000= 25K to 999K | 15,102 | |
| | 999998= Not ascertained | 2,646 | |
| HHCMSA | Chicago-Gary-Kenosha, IL-IN-WI | 8,179 | |
| | Cincinnati-Hamilton, OH-KY-IN C | 1,685 | |
| | Cleveland-Akron, OH CMSA | 2,341 | |
| | Dallas-Fort Worth, TX CMSA | 3,201 | |
| | Denver-Boulder-Greeley, CO CMSA | 1,500 | |
| | Detroit-Ann Arbor-Flint, MI CMS | 3,570 | |
| | Houston-Galveston-Brazoria, TX | 2,632 | |
| | Los Angeles-Riverside-Orange Co | 9,492 | |
| | Miami-Fort Lauderdale, FL CMSA | 2,483 | |
| | Milwaukee-Racine, WI CMSA | 1,288 | |
| | New York-No. New Jersey-Long Is | 47,451 | |
| | Philadelphia-Wilmington-Atlanti | 5,680 | |
| | Portland-Salem, OR-WA CMSA | 2,042 | |
| | Sacramento-Yolo, CA CMSA | 1,443 | |
| | San Francisco-Oakland-San Jose, | 5,590 | |
| | Seattle-Tacoma-Bremerton, WA CM | 6,905 | |
| | Washington-Baltimore, DC-MD-VA- | 7,231 | |
| | Not in a CMSA | 296,312 | |
| HHFAMINC | 01= Less than \$5,000 | 4,652 | Based on questions of Section K.See olso NONFMFLG and $\ensuremath{\operatorname{NONFMINC}}$ |
| | 02= \$5,000 - 9,999 | 12,555 | |
| | 03= \$10,000 - 14,999 | 16,907 | |
| | 04= \$15,000 - 19,999 | 22,986 | |
| | 05= \$20,000 - 24,999 | 20,875 | |
| | 06= \$25,000 - 29,999 | 34,724 | |
| | 07= \$30,999 - 34,999 | 21,554 | |
| | 08= \$35,000 - 39,999 | 35,378 | |
| | | | |

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| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|--|----------|----------|
| HHFAMINC | С | 2 | S | | K | 1 & 2 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HHMEMDRV | С | 2 | S | 1= household member drove G37 | G | 37 |
| | | _ | | 1 Household Member drove Go. | · · | <i>.</i> |
| | | | | | | |
| HHMSA | C | 4 | S | MSA identification code | * | * |
| HHSIZE | N | 3 | S | Total number of persons in HH | D | 1 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HHTRIPID | N | 3 | N | Trip number for household travel day | * | * |
| HHVEHCNT | N | 2 | S | No. of vehicles in household (derived) | В | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HH_HISP | С | 2 | S | Hispanic status of ref. person | D | 5 |

| Target | Value Range and Codes: | Fregs: | Comments: |
|----------|------------------------|------------------|--|
| | | | Commences. |
| | 09= \$40,000 - 44,999 | 17,770 | |
| | 10= \$45,000 - 49,999 | 32,322 | |
| | 11= \$50,000 - 54,999 | 12,689 | |
| | 12= \$55,000 - 59,999 | 25,149 | |
| | 13= \$60,000 - 64,999 | 9,466 | |
| | 14= \$65,000 - 69,999 | 17,882 | |
| | 15= \$70,000 - 74,999 | 5,986 | |
| | 16= \$75,000 - 79,999 | 12,597 | |
| | 17= \$80,000 - 99,999 | 20,155 | |
| | 18= \$100,000 and over | 22,300 | |
| | 98= Not ascertained | 28,582 | |
| | 99= Refused | 34,496 | |
| HHMEMDRV | 01= Yes | 325,183 | See documentation notes |
| | 02= No | 29,344 | |
| | 03= Some | 218 | |
| | 94= Legitimate skip | 51,923 | |
| | 98= Not ascertained | 2,357 | |
| | 99= Refused | 0 | |
| HHMSA | (0520 - 8840 | | |
| HHSIZE | 1 | 34,019 | Number of persons - all ages (derived) |
| | 2 | 117,313 | |
| | 3 | 81,658 | |
| | 4 | 101,601 | |
| | 5 | 49,200 | |
| | 6 | 17,143 | |
| | 7 | 4,977 | |
| | 8 | 1,923 | |
| | 9 | 628 | |
| | 10 | 563 | |
| HHTRIPID | (1 - 119) | 409,025 | Travel day trip ID within a household. See documentation notes |
| | | 15.004 | |
| HHVEHCNT | | | Count of all vehicles for the household |
| | 1 | 90,488 | |
| | 2 3 | 198,654 | |
| | 4 | 73,787 21,223 | |
| | 5 | 5,467 | |
| | 6 | 1,552 | |
| | 7 | 449 | |
| | 8 | 119 | |
| | 9 | 60 | |
| | 10 | 22 | |
| HH_HISP | 01= Hispanic | 17,398 | |
| | 02= Non-hispanic | 390,919 | |
| | 98= Not Ascertained | 260 | |
| | 99= Refused | 448 | |
| | | | |

| Target Variable: | Type: | Width: | 1990 Var: | Variable Label: | | Item ID: |
|---------------------|-------|--------|-----------|---|---|----------|
| HH_ONTRP | N | 2 | S | # of HH members on the trip (derived) | | 36 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HH_RACE | С | 2 | S | Race of reference person | D | 6 |
| | | | | | | |
| HOUSEID | N | 8 | S | Household identification number | * | * |
| HOWFARU | С | 2 | N | Units of reported dist: B)locks, M)iles | G | 22.02 |
| | | | | | | |
| INTRVMON | N | 2 | S | Person interview date - month | * | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| INTRVYR | N | 2 | S | Person interview date - year | * | * |
| LIF_CYC | С | 2 | S | Family life cycle | D | 3 |

| | Value Range and Codes: | | Comments: |
|----------|---|---|--|
| HH_ONTRP | | | Includes the person reporting the trip and other |
| | | | household members |
| | 2 | 96,726 | |
| | 3 | 33,341 | |
| | 4 | 16,640 | |
| | 5 | 5,810 | |
| | 6 | 1,413 | |
| | 7 | 420 | |
| | 8 | 171 | |
| | 9 | 24 | |
| | 10 | 80 | |
| HH_RACE | 01= White | 354,061 | |
| | 02= African-american | 25,093 | |
| | 03= Asian | 6,410 | |
| | 04= Other | 19,073 | |
| | 98= Not Ascertained | 1,339 | |
| | 99= Refused | 3,049 | |
| HOUSEID | (1000371 - 12227427) | 409,025 | |
| HOWFARU | 98=Not Ascertained | 6,619 | |
| | 99=Refused | 3 | |
| | B = Reported in blocks | 50,893 | |
| | M = Reported in miles | 351,510 | |
| INTRVMON | 1= January | 22,074 | |
| | 2= February | 34,768 | |
| | 3= March | 45,329 | |
| | 4= April | 37,834 | |
| | 5= May | 45,254 | |
| | 6= June | 39,524 | |
| | 7= July | 33,140 | |
| | 8= August | 28,038 | |
| | 9= September | 24,896 | |
| | 10= October | 34,061 | |
| | 11= November | 32,022 | |
| | 12= December | 32,085 | |
| INTRVYR | 95 | 229,409 | |
| | 96 | 179,616 | |
| LIF_CYC | 01= 1 adult, no children 02= >1 adult, no children 03= 1 adult, child age 0-5 04= >1 adult, child age 0-5 05= 1 adult, child age 6-15 | 24,605 92,455 5,598 78,402 13,174 | See documentation notes for LIF_CYC |
| | 05= 1 adult, child age 6-15 06= >1 adult, child age 6-15 07= 1 adult, child age 16-21 08= >1 adult, child age 16-21 09= 1 adult, retired, no childre 10= >1 adult, retired, no childre | 13,174 106,948 3,940 27,455 9,535 46,913 | |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|---------------------------------------|----------|----------|
| MATCH | N | 3 | N | ID of matching prev. reported trip | G | 17.05 |
| MSASIZE | С | 2 | S | Size of MSA of household | * | * |
| MSTR_MON | N | 2 | S | Date of master interview - month | * | * |
| | | | | | | |
| MSTR_YR | N | 2 | S | Date of master interview - year | * | * |
| NONHHACC | С | 2 | S | 1= non-HH members on trip | G | 39 |
| | | | | | | |
| NONHHCNT | N | 3 | S | # of non-HH members on trip | G | 40 |
| NUMONTRP | N | 3 | S | Total # of persons on trip (derived) | G | 36&40 |
| OVERLAP | С | 2 | S | =1 if trip part of travel period trip | Н | 5 |
| PASSPURP | С | 2 | S | Trip purpose for passenger | G | 21 |

| | Value Range and Codes: | | Comments: |
|----------|---|--|--|
| MATCH | | | Identifies the HHTRIPID where the trip was first |
| | 994= Legitimate skip 998= Not ascertained 999= Refused | 333,626 1,355 0 | reported. See PREVREP |
| MSASIZE | 01= Less than 250,000 02= 250,000 - 499,999 03= 500,000 - 999,999 04= 1,000,000 - 2,999,999 05= 3,000,000 or more 94= Legitimate skip, not in an M | 39,330 25,962 50,386 78,338 153,991 61,018 | See documentation notes for MSASIZE |
| MSTR_MON | 1= January 2= February 3= March 4= April 5= May 6= June 7= July 8= August 9= September 10= October 11= November 12= December | 37,037 35,511 40,295 33,696 50,016 41,370 27,934 23,591 27,599 34,440 33,846 23,690 | Date of the household interview |
| MSTR_YR | 95 96 | 241,364 167,661 | Date of the household interview |
| NONHHACC | 01= Yes 02= No 94= Legitimate skip 98= Not Ascertained 99= Refused | 73,068 334,452 0 1,441 64 | |
| NONHHCNT | (1 - 28) 994= Legitimate skip 998= Not ascertained 999= Refused | 71,677 334,452 2,827 69 | |
| NUMONTRP | (1 - 32) 994= Legitimate skip 998= Not ascertained 999= Refused | 406,230 0 2,728 67 | Total of HH_ONTRP and NONHHCNT |
| OVERLAP | 1= Yes 2= No | 2,900 406,125 | |
| PASSPURP | 01= To work 02= Work-related business 03= Return to work 04= Shopping | 1,399 99 70 310 | PASSPURP is asked only when WHYTRIP95=09 |

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| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|----------------------------|----------|----------|
| PASSPURP | C | 2 | s | Trip purpose for passenger | G | 21 |

| PERSONID | N | 2 | S | Person ID number | * | * |
|----------|---|---|---------|--|---|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| PREVREP | С | 2 | N | This trip also reported by other HH mem | G | 17 |
| | | | | | | |
| PROXY | С | 2 | H_PROXY | Proxy respondent for person data | * | * |
| | | | | | | |
| PUBTRANS | С | 2 | S | Used public transit (8 <trptrans<14)< td=""><td>G</td><td>25.CK</td></trptrans<14)<> | G | 25.CK |
| RAIL | С | 2 | N | Presence/absence of rail | * | * |
| | | | | | | |
| REF_AGE | N | 3 | S | Age of reference person (yr) | D | 3 |

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| Target | | | (11115) Fage 1011504 141011 1777/ |
|----------|----------------------------------|--------------|---|
| | Value Range and Codes: | | Comments: |
| | | | |
| | 05= School | 3,390 | |
| | 06= Religious activity | 162 | |
| | 07= Medical/dental | 551 | |
| | 08= Other family or personal bus | 2,398 | |
| | 09= Take someone somewhere | 17 | |
| | 10= Pick up someone | 1 | |
| | 11= Vacation | 45 | |
| | 12= Visit friends or relatives | 654 | |
| | 13= Went out to eat | 87 | |
| | 14= Other social/recreational | 1,544 | |
| | 15= Change means of transportati | 76 | |
| | 16= Other, specify | 19 | |
| | 17= Home | 4,076 | |
| | 94= Legitimate skip | 393,953 | |
| | 98= Not ascertained | 174 | |
| | 99= Refused | 0 | |
| PERSONID | 1 | 178,717 | Person ID within household |
| | 2 | 134,130 | |
| | 3 | 56,007 | |
| | 4 | 28,468 | |
| | 5 | 8,852 | |
| | 6 | 2,178 | |
| | 7 | 526 | |
| | 8 | 114 | |
| | 9 | 29 | |
| | 10 | 4 | |
| PREVREP | 01= Yes | 74,123 | |
| | 02= No | 222 626 | member,02=not.See documentation notes for PREVREP |
| | 94= Legitimate skip | 333,626 0 | |
| | 98= Not Ascertained | 1,276 | |
| | 99= Refused | 1,270 | |
| | 99- Relused | U | |
| PROXY | 01= Yes | 115,463 | |
| | 00 37 | 202 562 | respondent |
| | 02= No | 293,562 | |
| PUBTRANS | 01= Yes | 7,458 | Indicates public transit was the main mode used for |
| | | | the trip |
| | 02= No | 401,567 | |
| RAIL | 01= Yes | 28,499 | |
| | 00 17 | 200 506 | subway/elevated rail,02=other areas |
| | 02= No | 380,526 | |
| REF_AGE | (16 - 88) | 408,961 | |
| | 5-75= Ages 5-75 | 395,781 | |
| | 77= Ages 76-79 | 6,891 | |
| | 82= Ages 80-84 | 4,539 | |
| | 88= Ages 85-98 | 1,750 | |
| | 994= Legitimate skip | 0 | |
| | 998= Not ascertained | 27 | |
| | 999= Refused | 37 | |
| | | | |

$C\text{--}153 \qquad \text{(This page revised March 1999)}$

1NPTS Travel Day File Code Book - Public Use

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| The second secon | | | (This | is page revised March 1999) | | |
|--|--------------|--------|-----------|---|---|----------|
| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | | Item ID: |
| REF_EDUC | С | 2 | S | Education of HH reference person | | 1 |
| | | | | | | |
| REF_SEX | С | 2 | S | Sex of ref person | D | 4 |
| R_AGE | N | 3 | S | Age of sample person | D | 3 |
| | | | | | | |
| R_SEX | С | 2 | S | Sex of sample person | D | 4 |
| SEGMENTD | С | 2 | S | 1= if trip is segmented | G | * |
| SITMOST | С | 2 | S | Sit or stand most on trip | G | 33 |
| STANDSIT | С | 2 | S | 1=sat, 2=stood, 3=both on trip | G | 32 |
| STRTTIME | N | 4 | S | Start time of trip | G | 15&17 |
| STRTTIM2 | N | 4 | S | New revised STRTTIME, which sets Zero to missing. | G | * |
| SUBSTRAT | N | 1 | * | Substratum within VARSTRAT | * | * |
| TDAY_MON | N | 2 | S | Travel day date (MM) | * | * |

| $\Gamma \sim 1$ | ra | ^ 1 | - |
|---------------------|----|------------|---|
| | | | |

| INFIS ILAVEI | Day File Code Book - Public Use | | 10.29 | (This page revised March 1999) |
|--------------------|--|--|-----------|----------------------------------|
| Target Variable | Value Range and Codes: | Freqs: | Comments: | |
| REF_EDUC | 11= Less than H.S. graduate 12= H.S. graduate (includes GED) 21= Some college, no degree 22= Associate degree in college 24= Bachelors degree in college 25= Some grad/prof school 26= Grad/prof school degree 98= Not ascertained 99= Refused | 30,980 120,726 78,795 24,200 73,913 10,833 52,085 16,968 525 | | |
| REF_SEX | 01= Male 02= Female | 283,415 125,610 | | |
| R_AGE | (5 - 88) 5-75= (Ages 5-75) 77= (Ages 76-79) 82= (Ages 80-84) 88= (Ages 85-102) | 409, 398,376 5,536 3,703 1,410 | | ee documentation notes for R_AGE |
| R_SEX | 01= Male 02= Female | 194,351 214,674 | | |
| SEGMENTD | 01= Yes 02= No | 3,779 405,246 | | |
| SITMOST | 01= Sit 02= Stand 94= Legitimate skip 98= Refused | 525 349 408,113 38 | | |
| STANDSIT | 01= Sit only 02= Stand only 03= Some of both 94= Legitimate skip 98= Not ascertained 99= Refused | 4,912 1,182 912 401,596 415 8 | | |
| STRTTIME | (0 - 2359) 9994= Legitimate skip 9998= Not ascertained 9999= Refused | 408,905 0 114 6 | | |
| STRTTIM2 | (1-2359) | 408,905 | | |
| SUBSTRAT | 1 2 | 6,616 402,409 | | |
| TDAY_MON | 1= January 2= February 3= March 4= April 5= May 6= June 7= July 8= August 9= September 10= October 11= November | 21,448 35,270 46,354 37,213 48,086 38,347 32,126 26,585 26,806 34,161 32,064 | Date of t | ravel day for the household |

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| Target Variable: | Var Type: | Width: | | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|---|---|----------|----------|
| TDAY_MON | N | 2 | S | Travel day date (MM) | * | * |
| TDAY_YR | N | 2 | S | Travel day date (YY) | * | * |
| TO_B | С | 1 | N | Where trip chain ended | G | 16 |
| TRANSFER | С | 2 | S | =01 if changed mode from/to pub trans | G | 26 |
| TRAVDAY | N | 2 | S | Travel day - day of week | * | * |
| TRAVWKND | C | 2 | S | Travel day on weekend (1=Y, 2=N) | * | * |
| | a | 2 | | · · | G | 35 |
| TRPHHACC | C | ۷ | S | Other HH mem were also on trip? | G | 35 |
| TRPHHVEH | С | 2 | S | Was HH vehicle used on trip? | G | 23 |
| | | | | | | |
| TRPMILES | N | 6.1 | S | Distance (miles) | G | 22.03 |
| TRPNUM | N | 2 | S | Travel day trip number for sample person | G | * |
| TRPNUM2 | N | 2 | S | Travel day trip number to be used to Chronologically reorder trip with each Person's records. | G | * |
| TRPNUM_A | N | 2 | N | Person trip # of first trip in chain | * | * |
| TRPNUM_B | N | 2 | N | Person trip # of last trip in chain | * | * |
| TRPTRANS | С | 2 | S | Mode of transportation code | G | 25 |

| | Value Range and Codes: | | Comments: |
|----------|---|--|--|
| | 12= December | 30,565 | |
| TDAY_YR | 95 96 | 231,718 177,307 | Date of travel day for the household |
| TO_B | 8= Not Ascertained H= Home S= Other W= Work | 0 324,359 13,089 71,577 | See documentation notes for CHAIN |
| TRANSFER | 01= Yes 02= No 94= Legitimate skip 98= Not Ascertained 99= Refused | 3,779 3,501 401,567 177 | Only for trip that involved public transportation |
| TRAVDAY | 1= Sunday 2= Monday 3= Tuesday 4= Wednesday 5= Thursday 6= Friday 7= Saturday | 43,277 59,175 62,826 62,236 61,842 67,711 51,958 | |
| TRAVWKND | 01= Yes 02= No | 95,235 313,790 | |
| TRPHHACC | 01= Yes 02= No | 154,625 254,400 | |
| TRPHHVEH | 01= Yes 02= No 03= Some 94= Legitimate skip 98= Not ascertained 99= Refused | 320,646 69,043 909 17,204 1,127 96 | |
| TRPMILES | (0 - 1200) <1 mile 1-1200 9998= Not ascertained 9999= Refused | | Distance reported in miles. See documentaion notes for TRPMILES. |
| TRPNUM | (1 - 39) | 409,025 | See documentation notes for TRPNUM |
| TRPNUM2 | (1 - 39) | 409,025 | See documentation notes for TRPNUM2 |
| TRPNUM_A | (1 - 31) | 409,025 | See documentation notes for CHAIN |
| TRPNUM_B | (1 - 39) | 409,025 | See documentation notes for CHAIN |
| TRPTRANS | 01= Automobile 02= Van | 240,373 41,735 | Main transportation means for the trip |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|-----------------------------|----------|----------|
| | | | | Mode of transportation code | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| TIDY MIN | N | 4 | G. | Travel time (min) | G | 27 |
| IRVL_MIN | IN | 4 | 5 | ifavei time (min) | G | 21 |
| VARSTRAT | N | 2 | S | Sample stratum | * | * |
| VEHID | N | 2 | S | HH vehicle number | G | 24 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

VTR_FLG C 2 * 1=POV trip, respondent drove * *

WHERE C 1 N H=home, W=work, S=other-specify G 16.01

| - 7 | ٦- | 200 | * | ٠+ | |
|-----|----|-----|---|----|--|
| | | | | | |

| Target | Wales Danes and Cadas: | E | Commonto |
|------------|--|--------------|---|
| | Value Range and Codes: | | Comments: |
| | | | |
| | 03= Sport utility vehicle | 25,203 | |
| | 04= Pickup truck | 41,599 | |
| | 05= Other truck | 2,397 | |
| | 06= RV (recreational vehicle) | 189 | |
| | 07= Motorcycle | 441 | |
| | 08= Other POV | 234 | |
| | 09= Bus | 4,681 | |
| | 10= Amtrak | 37 | |
| | 11= Commuter train | 778 | |
| | 12= Streetcar/trolley | 54 | |
| | 13= Subway/elevated rail | 1,986 | |
| | 14= Airplane | 346 | |
| | 15= Taxicab | 971 | |
| | 16= Bicycle | 3,108 | |
| | 17= Walk | 21,113 | |
| | 18= School bus | 8,807 | |
| | 19= Other non-POV | 1,105 | |
| | 94= Legitimate skip | 12 725 | |
| | 98= Not ascertained | 13,735 | |
| | 99= Refused | 133 | |
| TRVL_MIN | (1 - 1020) | 404,256 | For segmented trips, derived as the sum of |
| | 0004 Janitimata alain | 0 | SEGi_MIN.See documentaion notes for TRVL_MIN. |
| | 9994= Legitimate skip | | |
| | 9998= Not ascertained 9999= Refused | 4,633 136 | |
| | 9999= Relused | 130 | |
| VARSTRAT | (1 - 70) | 409,025 | |
| VEHID | 1 | 201,606 | |
| | 2 | 95,925 | |
| | 3 | 19,096 | |
| | 4 | 3,959 | |
| | 5 | 594 | |
| | 6 | 168 | |
| | 7 | 35 | |
| | 8 | 12 | |
| | 9 | 10 | |
| | 94= Legitimate skip | 87,470 | |
| | 98= Not ascertained | 150 | |
| VTR_FLG | 01= Yes | 250,181 | |
| . 110_1 20 | 02= No | 158,844 | |
| | | | |
| WAIT_MIN | (0 - 9999) | 6,774 | |
| | 9994= Legitimate skip | 401,567 | |
| | 9998= Not ascertained | 670 | |
| | 9999= Refused | 14 | |
| WHERE | 8= Not Ascertained | 14 | Trip destination is home, work, or other |
| | H= Home | 137,598 | |
| | S= Other | 230,557 | |
| | | | |

Target Var

| | | | | Variable Label: | | Item ID: |
|-----------|----|---|---|--|---|----------|
| | | | | H=home, W=work, S=other-specify | | 16.01 |
| WHOACC_A | N | 2 | S | Roster # of other HH mem on trip G36 | G | 36.01 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| WHOACC_B | N | 2 | S | Roster # of other HH mem on trip G36 | G | 36.02 |
| | | | | | | |
| | | | | | | |
| WIIOACC C | N | 2 | c | Poston # of other IIII was on twin C26 | C | 26 02 |
| WHOACC_C | IN | 2 | 5 | Roster # of other HH mem on trip G36 | G | 36.03 |
| | | | | | | |
| | | | | | | |
| WHOACC_D | N | 2 | S | Roster # of other HH mem on trip G36 | G | 36.04 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| WHOACC_E | N | 2 | S | Roster # of other HH mem on trip G36 | G | 36.05 |

| Target | | | |
|----------|------------------------|-----------------|-----------|
| Variable | Value Range and Codes: | | Comments: |
| | | | |
| | W= Work | 40,856 | |
| WHOACC_A | | 60,331 | |
| | 2 | 52,360 | |
| | 3 | 25,434 | |
| | 4 | 11,564 | |
| | 5 | 3,704 | |
| | 6 | 917 | |
| | 7 | 226 | |
| | 8 9 | 69 11 | |
| | 10 | 9 | |
| | 94= Legitimate skip | 254,400 | |
| | 94= Legicimate skip | 254,400 | |
| WHOACC_B | Missing | 351,126 | |
| | 1 | 0 | |
| | 2 | 11,526 | |
| | 3 | 21,384 | |
| | 4 5 | 18,204 4,910 | |
| | 6 | | |
| | 7 | 1,368 364 | |
| | 8 | 96 | |
| | 9 | 35 | |
| | 10 | 12 | |
| WHOACC_C | Missing | 384,467 | |
| WHOACC_C | 1 | 0 | |
| | 2 | 0 | |
| | 3 | 3,790 | |
| | 4 | 12,528 | |
| | 5 | 6,490 | |
| | 6 | 1,343 | |
| | 7 | 257 | |
| | 8 | 88 | |
| | 9 | 45 | |
| | 10 | 17 | |
| WHOACC_D | Missing | 401,107 | |
| | 1 | 0 | |
| | 2 | 0 | |
| | 3 | 0 | |
| | 4 | 913 | |
| | 5 | 4,909 | |
| | 6 | 1,679 | |
| | 7 | 281 | |
| | 8 | 77 | |
| | 9 | 32 | |
| | 10 | 27 | |
| WHOACC_E | Missing | 406,917 | |
| _ | 1 | 0 | |
| | | | |

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | | Item ID: |
|---------------------|--------------|--------|-----------|--------------------------------------|---|----------|
| WHOACC_E | N | 2 | S | Roster # of other HH mem on trip G36 | | 36.05 |
| | | | | | | |
| WHOACC_F | N | 2 | S | Roster # of other HH mem on trip G36 | G | 36.06 |
| | | | | | | |
| WHOACC_G | N | 2 | S | Roster # of other HH mem on trip G36 | G | 36.07 |
| WHOACC_H | N | 2 | S | Roster # of other HH mem on trip G36 | G | 36.08 |
| | | | | | | |
| WHOACC_I | N | 2 | S | Roster # of other HH mem on trip G36 | G | 36.09 |
| WHOACC_J | N | 2 | S | Roster # of other HH mem on trip G36 | G | 36.1 |
| | | | | | | |
| WHODROVE | N | 2 | S | ID of HH mem who drove on trip G38 | G | 38 |

| Target | | | |
|----------|------------------------|--------------|-----------|
| Variable | Value Range and Codes: | Freqs: | Comments: |
| | | | |
| | 2 | 0 | |
| | 3 | 0 | |
| | 4 | 0 | |
| | 5 | 167 | |
| | 6 | 1,390 | |
| | 7 | 430 | |
| | 8 | 86 | |
| | 9 | 26 | |
| | 10 | 9 | |
| WHOACC_F | Missing | 408,330 | |
| | 6 | 43 | |
| | 7 | 415 | |
| | 8 | 205 | |
| | 9 | 27 | |
| | 10 | 5 | |
| | Not an artist | 400 750 | |
| WHOACC_G | Missing 6 | 408,750 0 | |
| | 7 | 14 | |
| | 8 | 225 | |
| | 9 | 26 | |
| | 10 | 10 | |
| | | | |
| WHOACC_H | Missing | 408,921 | |
| | 6 | 0 | |
| | 7 8 | 0 4 | |
| | 9 | 78 | |
| | 10 | 22 | |
| | | | |
| WHOACC_I | Missing | 408,945 | |
| | 6 | 0 | |
| | 7 | 0 | |
| | 8 | 0 | |
| | 9 | 0 | |
| | 10 | 80 | |
| WHOACC_J | Missing | 409,025 | |
| | 6 | 0 | |
| | 7 | 0 | |
| | 8 | 0 | |
| | 9 | 0 | |
| | 10 | 0 | |
| WHODROVE | 1 | 181,679 | |
| | 2 | 117,285 | |
| | 3 | 19,788 | |
| | 4 | 5,106 | |
| | 5 | 1,052 | |
| | 6 | 250 | |
| | 7 | 54 | |
| | | | |

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| Target Variable: | Type: | | | Variable Label: | | Item ID: |
|---------------------|-------|---|---|------------------------------------|---|----------|
| WHODROVE | | | | ID of HH mem who drove on trip G38 | | |
| WHYFROM | С | 2 | N | 1995 purpose - from | G | 20 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| WHYTO | С | 2 | N | 1995 purpose - to | G | 20 |
| | | | | | | |
| | | | | | | |

Progid: disk46:[wmynpts.pubfiles]cbrp_tday.sas Date: 24SEP97

WHYTRP90 C 2 WHYTRP Purpose of trip (1990 definition) G 20

| | Value Range and Codes: | | Comments: |
|----------|---|---------|---|
| | 8 | 28 | |
| | 94= Legitimate skip | 83,624 | |
| | 98= Not ascertained | 143 | |
| | 99= Refused | 16 | |
| | 99- Refused | 10 | |
| WHYFROM | 01= To work | 35,865 | See documentation for WHYFROM |
| | 02= Work-related business | 11,354 | |
| | 03= Return to work | 7,160 | |
| | 04= Shopping | 55,992 | |
| | 05= School | 13,238 | |
| | 06= Religious activity | 6,042 | |
| | 07= Medical/dental | 4,055 | |
| | 08= Other family or personal bus | | |
| | 09= Take someone somewhere 10= Pick up someone | 14,891 | |
| | 10= Pick up someone | | |
| | 11= Vacation | 531 | |
| | 12= Visit friends or relatives | 19,110 | |
| | 13= Went out to eat | 18,907 | |
| | 14= Other social/recreational | 25,709 | |
| | 15= Change means of transportati | 0 | |
| | 16= Other, specify | 432 | |
| | 17= Home | 136,218 | |
| | 94= Legitimate skip | 0 | |
| | 98= Not ascertained | 6,732 | |
| | 99= Refused | 15 | |
| WHYTO | 01= To work | 36,274 | See documentation for WHYTO |
| | 02= Work-related business | 11,541 | |
| | 03= Return to work | 7,229 | |
| | 04= Shopping | 56,312 | |
| | 05= School | 13,301 | |
| | 06= Religious activity | 6,075 | |
| | 07= Medical/dental | 4,083 | |
| | 08= Other family or personal bus | 41,227 | |
| | 09= Take someone somewhere | 15,065 | |
| | 09= Take someone somewhere 10= Pick up someone | 12,589 | |
| | 11= Vacation | 747 | |
| | 12= Visit friends or relatives | 20,321 | |
| | 13= Went out to eat | 19,020 | |
| | 14= Other social/recreational | 26,391 | |
| | 15= Change means of transportati | | |
| | 16= Other, specify | 612 | |
| | 17= Home | 138,166 | |
| | 94= Legitimate skip | 0 | |
| | 98= Not ascertained | 53 | |
| | 99= Refused | 19 | |
| WHYTRP90 | 01= To or from work | 73,897 | Trip purpose by 1990 NPTS definition (derived). See documentation notes |
| | 02= Work-related business 03= Shopping | 10,709 | |
| | 03= Shopping | 82,292 | |
| | 04= Other family or personal bus | 100,680 | |

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1NPTS Travel Day File Code Book - Public Use

Target Var

| Variable: | Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-----------|-------|--------|-----------|-----------------------------------|----------|----------|
| WHYTRP90 | | | | Purpose of trip (1990 definition) | | |
| | | | | | | |
| WHYTRP95 | С | 2 | N | Purpose of trip (1995 definition) | G | 20 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| WORKER | C | 2 | S | Respondent is a worker | D | 12 |
| WRKCOUNT | N | 2 | WRKRCNT | No. of workers in HH | * | * |
| | | | | | | |
| | | | | | | |
| WTTRDFIN | N | 11.2 | S | Final travel day trip weight | * | * |

| Target Variable | Value Range and Codes: | Freqs: | Comments: |
|--------------------|---|------------------|---|
| | | | |
| | 05= School/Church | 35,550 | |
| | 06= Medical/dental 07= Vacation | 6,564 777 | |
| | | 31,504 | |
| | 10= Other social/recreational | 66,307 | |
| | 11= Other, specify | 657 | |
| | 98= Not ascertained | 88 | |
| WHYTRP95 | 01= To work | 36,281 | See documentation notes |
| | 02= Work-related business | 11,544 | |
| | 03= Return to work | 7,229 | |
| | 04= Shopping | 56,326 | |
| | 05= School | 13,304 | |
| | 06= Religious activity | 6,080 | |
| | 07= Medical/dental | 4,084 | |
| | | 41,238 | |
| | 09= Take someone somewhere 10= Pick up someone | 15,072 12,590 | |
| | 11= Vacation | 749 | |
| | 12= Visit friends or relatives | 20,336 | |
| | 13= Went out to eat | 19,026 | |
| | 14= Other social/recreational | 26,405 | |
| | 15= Change means of transportati | . 0 | |
| | 16= Other, specify | 612 | |
| | 17= Home | 138,077 | |
| | 94= Legitimate skip | 0 | |
| | 98= Not ascertained | 53 | |
| | 99= Refused | 19 | |
| WORKER | 01= Yes | 245,870 | Response to question D-12, as verified or corrected by the response to F-2 |
| | 02= No | 163,155 | |
| WRKCOUNT | | | Derived from WORKER variable |
| | 1 | 118,673 | |
| | 2 | 181,557 | |
| | 3 | 42,259 | |
| | 4 5 | 12,043 1,752 | |
| | 6 | 350 | |
| | 7 | 57 | |
| | 8 | 4 | |
| WTTRDFIN | (48 - 23821385) | 409,025 | Used to weight travel day trip file and segmented trip file data (weights up to annual estimates) |

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1NPTS Segment File Code Book - Public Use

Target Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID:

CENSUS_D C 2 S Census division * * *

CENSUS_R C 2 S Census region * *

DRIVER C 2 LIC_DRVR Person is a driver D9 D 9

DRVRCNT N 2 S Number of drivers in HH D *

HHCMSA C 4 SMSA CMSA identification code * *

HHFAMINC C 2 S HH family income category K 1 & 2

| | Value Range and Codes: | | Comments: |
|-----------|--|--------------|--|
| CENCIIC D | 01= New England | 525 | |
| CENSUS_D | 02= Middle Atlantic | 2,430 | |
| | 03= East North Central | 230 | |
| | 04= West North Central | 16 | |
| | 05= South Atlantic | 196 | |
| | 06= East South Central | 12 | |
| | 07= West South Central | 67 | |
| | 08= Mountain | 27 | |
| | 09= Pacific | 276 | |
| CENSUS_R | 01= Northeast | 2,955 | |
| | 02= North Central | 246 | |
| | 03= South | 275 | |
| | 04= West | 303 | |
| DRIVER | 01= Yes | 1,954 | Driver status reported in D-9, as verified or corrected in E-6 or E-7 $$ |
| | 02= No | 1,825 | |
| | 94= Legitimate skip | 0 | |
| | 98= Not Ascertained | 0 | |
| | 99= Refused | 0 | |
| DRVRCNT | 0 | | Derived from the variable DRIVER |
| | 1 | 1,255 | |
| | 2 3 | 1,178 324 | |
| | 4 | 324 82 | |
| | 5 | 17 | |
| | 6 | 3 | |
| | 7 | 0 | |
| HHCMSA | Chicago-Gary-Kenosha, IL-IN-WI CMSA | 161 | |
| | Cincinnati-Hamilton, OH-KY-IN CMSA | 14 | |
| | Cleveland-Akron, OH CMSA | 14 | |
| | Dallas-Fort Worth, TX CMSA | 10 | |
| | Denver-Boulder-Greeley, CO CMSA | 9 | |
| | Detroit-Ann Arbor-Flint, MI CMSA | 5 | |
| | Houston-Galveston-Brazoria, TX CMSA | 6 | |
| | Los Angeles-Riverside-Orange County | 72 | |
| | Miami-Fort Lauderdale, FL CMSA | 15 7 | |
| | Milwaukee-Racine, WI CMSA New York-No. New Jersey-Long Island | 2,079 | |
| | Phila-Wilmington-Atlantic City | 115 | |
| | Portland-Salem, OR-WA CMSA | 13 | |
| | Sacramento-Yolo, CA CMSA | 8 | |
| | San Francisco-Oakland-San Jose | 89 | |
| | Seattle-Tacoma-Bremerton | 69 | |
| | Washington-Baltimore | 108 | |
| | Not in a CMSA | 985 | |
| HHFAMINC | 01= Less than \$5,000 | | Based on questions of Section K.See olso |

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1NPTS Segment File Code Book - Public Use

Progid: disk46:[wmynpts]cbrp_seg.sas Date: 23SEP97

Target Var Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID:

HHFAMINC C 2 S HH family income category K 1 & 2

| HHMSA | C | 4 | S | MSA identification code | * | * |
|----------|---|---|---|--|---|---|
| HHSIZE | N | 2 | S | Total number of persons in HH | D | 1 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HHTRIPID | N | 3 | N | Trip number for household travel day | * | * |
| | | | _ | | _ | |
| HHVEHCNT | N | 2 | S | No. of vehicles in household (derived) | В | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HH_HISP | C | 2 | S | Hispanic status of ref. person | D | 5 |
| | | | | | | |
| HH_RACE | С | 2 | S | Race of reference person | D | 6 |

Target. Variable Value Range and Codes: Freqs: Comments: 02= \$5,000 - 9,999 03= \$10,000 - 14,999 04= \$15,000 - 19,999 05= \$20,000 - 24,999 06= \$25,000 - 29,999 07= \$30,999 - 34,999 08= \$35,000 - 39,999 09= \$40,000 - 44,999 11= \$50,000 - 54,999 12= \$55,000 - 59,999 13= \$60,000 - 64,999 253 301 202 258 166 221 115 197 69 152 12= \$33,000 - 59,999 13= \$60,000 - 64,999 14= \$65,000 - 69,999 15= \$70,000 - 74,999 16= \$75,000 - 79,999 17= \$80,000 - 99,999 46 135 32 112 153 18= \$100,000 and over 205 98= Not ascertained 351 99= Refused 287 HHMSA (0160 - 9998) HHSIZE 605 Number of persons - all ages (derived) 2 1,099 3 786 4 699 5 326 6 194 44 8 21 9 4 10 1 HHTRIPID (1 - 108) 3,779 Travel day trip ID within a household. See documentation notes HHVEHCNT 0 1,820 Count of all vehicles for the household 1,059 2 626 209 4 45 5 18 6 2 0 HH_HISP 01= Hispanic 571 02= Non-hispanic 3,204 98= Not Ascertained 0 99= Refused 4 HH_RACE 01= White 1,946 02= African-american 1,136

| 1 NIDTS | Segment | File | Code | Rook | _ | Public | TTGA |
|---------|---------|------|------|------|---|--------|------|
| | | | | | | | |

| ln | PTS Segment | File C | Code Book | : - Public U | Jse 13:11 Tuesday, Se | eptember 23 | , 1997 5 |
|----|---------------------|--------|-----------|--------------|---|-------------|----------|
| | Target Variable: | | Width: | | Variable Label: | Section: | |
| | HH_RACE | С | 2 | | Race of reference person | | 6 |
| | HOUSEID | N | 8 | S | Household identification number | * | * |
| | HOWFARU | С | 2 | N | Units of reported dist: B)locks, M)iles | G | 22.02 |
| | LIF_CYC | С | 2 | S | Family life cycle | D | 3 |
| | MSASIZE | С | 2 | S | Size of MSA of household | * | * |
| | | | | | | | |
| | PERSONID | N | 2 | S | Person ID number | * | * |
| | PROXY | C | 2 | H_PROXY | Proxy respondent for person data | * | * |
| | RAIL | С | 2 | N | Presence/absence of rail | * | * |

Target. Variable Value Range and Codes: Freqs: Comments: 03= Asian 04= Other 475 98= Not Ascertained 34 99= Refused 44 HOUSEID (1002591 - 12221586) 3,779 98=Not Ascertained 99=Refused HOWFARU 567 0 B = Reported in blocks 367 M = Reported in miles 2,845 LIF_CYC 01= 1 adult, no children 509 See documentation notes for LIF_CYC 02= >1 adult, no children 1,143 03= 1 adult, child age 0-5240 04 = > 1 adult, child age 0-5494 05= 1 adult, child age 6-15 208 06 = > 1 adult, child age 6 - 15598 07= 1 adult, child age 16-21 56 08= >1 adult, child age 16-21 192 09= 1 adult, retired, no children 10= >1 adult, retired, no children 96 243 MSASIZE 01= Less than 250,000 88 See documentation notes for MSASIZE 02= 250,000 - 499,999 03= 500,000 - 999,999 47 147 04= 1,000,000 - 2,999,999 246 05= 3,000,000 or more 3,178 94= Legitimate skip, not in an MSA 73 PERSONID 1 1,945 Person ID within household 1,061 3 484 199 6 25 9 8 0 9 0 10 PROXY 01= Yes 802 01=person and trip data were collected from proxy respondent 02= No 2,977 RAIL 01= Yes 488 01=Urban areas 1,250,000 population or greater with subway/elevated rail,02=other 02= No 3,291 94= Legitimate skip 0 0 98= Not Ascertained 99= Refused 0

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| Target | Var | | | • | | • |
|----------|-----|--------|-----------|--------------------------|----------|----------|
| _ | | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
| R_AGE | N | 3 | S | Age of sample person | D | 3 |
| | | | | | | |
| R_SEX | С | 2 | S | Sex of sample person | D | 4 |
| SEG1TIME | N | 4 | S | Start time for segment 1 | G | 29.01 |
| | | | | | | |
| SEG1TRAN | С | 2 | S | Mode code for segment 1 | G | 28.01 |

| SEG1_MIN | N | 4 | S | Duration of segment 1 (min) | G | 30.01 |
|----------|---|---|---|-----------------------------|---|-------|
| SEG2TIME | N | 4 | S | Start time for segment 2 | G | 29.02 |
| SEG2TRAN | С | 2 | S | Mode code for segment 2 | G | 28.02 |

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| | Value Range and Codes: | Freqs: Comments: |
|----------|--|--|
| R_AGE | (5 - 88) 5-75= (Ages 5-75) 77= (Ages 76-79) 82= (Ages 80-84) 88= (Ages 85-102) | <pre>3,779 See documentation notes for R_AGE. 3,717 35 21 6</pre> |
| R_SEX | 01= Male 02= Female | 1,632 2,147 |
| SEGITIME | (0 - 2355) 9994= Legitimate skip 9998= Not ascertained 9999= Refused | 3,757 0 22 0 |
| SEGITRAN | 01= Automobile 02= Van 03= Sport utility vehicle 04= Pickup truck 05= Other truck 06= RV (recreational vehicle) 07= Motorcycle 08= Other POV 09= Bus 10= Amtrak 11= Commuter train 12= Streetcar/trolley 13= Subway/elevated rail 14= Airplane 15= Taxicab 16= Bicycle 17= Walk 18= School bus 19= Other non-POV 94= Legitimate skip 98= Not ascertained 99= Refused | 168 11 5 6 0 0 0 0 3 1,084 3 1,48 15 458 0 20 20 2 1,798 1 18 0 36 3 |
| SEG1_MIN | (0 - 240) 9994= Legitimate skip 9998= Not ascertained 9999= Refused | 3,710 0 64 5 |
| SEG2TIME | (0 - 2353) 9994= Legitimate skip 9998= Not ascertained 9999= Refused | 3,689 0 90 0 |
| SEG2TRAN | 01= Automobile 02= Van 03= Sport utility vehicle 04= Pickup truck 05= Other truck 06= RV (recreational vehicle) 07= Motorcycle 08= Other POV 09= Bus | 46 5 1 4 0 0 0 0 3 1,538 |

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| | Type: | | | Variable Label: | | |
|----------|-------|---|---|-----------------------------|---|-------|
| SEG2TRAN | С | 2 | s | Mode code for segment 2 | G | 28.02 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| SEG2_MIN | N | 4 | S | Duration of segment 2 (min) | G | 30.02 |
| SEG3TIME | N | 4 | S | Start time for segment 3 | G | 29.03 |
| | | | | | | |
| SEG3TRAN | C | 2 | S | Mode code for segment 3 | G | 28.03 |

SEG3_MIN N 4 S Duration of segment 3 (min) G 30.03

Target

| | Value Range and Codes: | | Comments: |
|----------|-------------------------------|-------|-----------|
| | | | |
| | 10= Amtrak | 12 | |
| | 11= Commuter train | 425 | |
| | 12= Streetcar/trolley | 19 | |
| | 13= Subway/elevated rail | 1,107 | |
| | 14= Airplane | 7 | |
| | 15= Taxicab | 7 | |
| | 16= Bicycle | 0 | |
| | 17= Walk | 549 | |
| | 18= School bus | 1 | |
| | 19= Other non-POV | 40 | |
| | 94= Legitimate skip | 0 | |
| | 98= Not ascertained | 14 | |
| | 99= Refused | 1 | |
| SEG2_MIN | (0 - 840) | 3,695 | |
| | 9994= Legitimate skip | 0 | |
| | 9998= Not ascertained | 81 | |
| | 9999= Refused | 3 | |
| SEG3TIME | (10 - 2350) | 1,864 | |
| | 9994= Legitimate skip | 1,884 | |
| | 9998= Not ascertained | 30 | |
| | 9999= Refused | 1 | |
| SEG3TRAN | 01= Automobile | 91 | |
| | 02= Van | 6 | |
| | 03= Sport utility vehicle | 7 | |
| | 04= Pickup truck | 1 | |
| | 05= Other truck | 0 | |
| | 06= RV (recreational vehicle) | 0 | |
| | 07= Motorcycle | 0 | |
| | 08= Other POV | 0 | |
| | 09= Bus | 282 | |
| | 10= Amtrak | 2 | |
| | 11= Commuter train | 82 | |
| | 12= Streetcar/trolley | 8 | |
| | 13= Subway/elevated rail | 208 | |
| | 14= Airplane | 2 | |
| | 15= Taxicab | 23 | |
| | 16= Bicycle | 2 | |
| | 17= Walk | 1,145 | |
| | 18= School bus | 0 | |
| | 19= Other non-POV | 23 | |
| | 94= Legitimate skip | 1,884 | |
| | 98= Not ascertained | 13 | |
| | 99= Refused | 0 | |
| SEG3_MIN | (0 - 480) | 1,871 | |
| | 9994= Legitimate skip | 1,884 | |
| | 9998= Not ascertained | 24 | |
| | 9999= Refused | 0 | |
| | 9998= Not ascertained | 24 | |

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| Variable: | Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-----------|-------|--------|-----------|--------------------------|----------|----------|
| SEG4TIME | N | 4 | S | Start time for segment 4 | G | 29.04 |
| SEG4TRAN | С | 2 | s | Mode code for segment 4 | G | 28.04 |

| SEG4_MIN | N | 4 | S | Duration of segment 4 (min) | G | 30.04 |
|----------|---|---|---|------------------------------|---|-------|
| SEGNUM | С | 1 | N | Number of segments (derived) | * | * |
| STRTTIME | N | 4 | S | Start time of trip | G | 15&17 |
| SUBSTRAT | N | 1 | * | Substratum within VARSTRAT | * | * |
| TDAY_MON | N | 2 | S | Travel day date (MM) | * | * |

| | Value Range and Codes: | Freqs: | Comments: |
|----------|------------------------------------|--------|--------------------------------------|
| | | | |
| SEG4TIME | (45 - 2340) | 450 | |
| | 9994= Legitimate skip | 3,314 | |
| | 9998= Not ascertained | 15 | |
| | 9999= Refused | 0 | |
| SEG4TRAN | 01= Automobile | 40 | |
| | 02= Van | 1 | |
| | 03= Sport utility vehicle | 1 | |
| | 04= Pickup truck | 3 | |
| | 05= Other truck | 0 | |
| | 06= RV (recreational vehicle) | 0 | |
| | 07= Motorcycle | 0 | |
| | 08= Other POV | 0 | |
| | 09= Bus | 56 | |
| | 10= Amtrak | 1 | |
| | 11= Commuter train | 12 | |
| | 12= Streetcar/trolley | 1 | |
| | 13= Subway/elevated rail | 39 | |
| | 14= Airplane | 0 | |
| | 15= Taxicab | 4 | |
| | 16= Bicycle | 0 | |
| | 17= Walk | 295 | |
| | 18= School bus | 293 | |
| | 19= Other non-POV | 6 | |
| | | 3,314 | |
| | 94= Legitimate skip | 3,314 | |
| | 98= Not ascertained 99= Refused | 0 | |
| | 99= Relused | U | |
| SEG4_MIN | (1 - 360) | 450 | |
| | 9994= Legitimate skip | 3,314 | |
| | 9998= Not ascertained | 15 | |
| | 9999= Refused | 0 | |
| SEGNUM | 1 | 0 | Number of segments in the trip |
| | 2 | 1,883 | |
| | 3 | 1,431 | |
| | 4 | 465 | |
| STRTTIME | (0 - 2355) | 3,776 | |
| | 9994= Legitimate skip | 0 | |
| | 9998= Not ascertained | 3 | |
| | 9999= Refused | 0 | |
| SUBSTRAT | 1 | 92 | |
| | 2 | 3,687 | |
| TDAY_MON | 1= January | 296 | Date of travel day for the household |
| | 2= February | 397 | |
| | 3= March | 482 | |
| | 4= April | 419 | |
| | | | |
| | 5= May | 411 | |

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| Target | Var | | | | | |
|-----------|-------|--------|-----------|--|----------|----------|
| Variable: | Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
| | | | | Travel day date (MM) | * | * |
| | | | | | | |
| TDAY_YR | N | 2 | S | Travel day date (YY) | * | * |
| TRANSFER | С | 2 | S | =01 if changed mode from/to pub trans | G | 26 |
| TRPMILES | N | 6.1 | S | Distance (miles) | G | 22.03 |
| | | | | | | |
| TRPNUM | N | 2 | S | Travel day trip number for sample person | G | * |
| TRPTRANS | C | 2 | S | Mode of transportation code | G | 25 |

TRVL_MIN N 4 S Travel time (min) G 27

| Target |
|---------|
| Variabl |

| Variable | | | |
|----------|--|-----------|---|
| | Value Range and Codes: | | Comments: |
| | | | |
| | 7= July | 182 | |
| | 8= August | 162 | |
| | 9= September | 191 | |
| | 10= October | 424 | |
| | 11= November | 355 | |
| | 12= December | 223 | |
| TDAY_YR | 95 | 1,828 | Date of travel day for the household |
| | 96 | 1,951 | |
| TRANSFER | 01= Yes | 3,779 | Only for trip that involved public transportation |
| | 02= No | 0 | |
| | 94= Legitimate skip | 0 | |
| | 98= Not Ascertained | 0 | |
| | 99= Refused | 0 | |
| TRPMILES | (0 - 916) | 3,148 | Distance reported in miles, blocks corrected (9/mile). See documentaion notes for TRPMILES. |
| | 9996= < 1 block | 7 | |
| | 9997= Half a mile | 41 | |
| | 9998= Not ascertained | 579 | |
| | 9999= Refused | 4 | |
| TRPNUM | (1 - 28) | 3,779 | See documentation notes for TRPNUM |
| TRPTRANS | 01= Automobile | | Main transportation means for the trip |
| | 02= Van | 0 | |
| | 03= Sport utility vehicle | 1 | |
| | 04= Pickup truck | 1 | |
| | 05= Other truck | 0 | |
| | 06= RV (recreational vehicle) | 0 | |
| | 07= Motorcycle | 0 | |
| | 08= Other POV | 2 | |
| | 09= Bus | 1,957 | |
| | 10= Amtrak | 17 | |
| | 11= Commuter train | 500 21 | |
| | 12= Streetcar/trolley | 1,254 | |
| | 13= Subway/elevated rail 14= Airplane | 1,254 | |
| | 15= Taxicab | 1 | |
| | 16= Bicycle | 0 | |
| | 17= Walk | 0 | |
| | 17= Walk 18= School bus | 0 | |
| | 19= Other non-POV | 3 | |
| | 94= Legitimate skip | 0 | |
| | 98= Not ascertained | 2 | |
| | 99= Refused | 0 | |
| | (3 - 945) | 3,671 | For segmented trips, derived as the sum of |
| TRVL_MIN | | | SEGi_MIN.See documentaion notes for TRVL_MIN. |
| TRVL_MIN | 9994= Legitimate skip 9998= Not ascertained | 0 108 | SEGi_MIN.See documentaion notes for TRVL_MIN. |

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| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|-----------------------------------|----------|----------|
| TRVL_MIN | N | 4 | S | Travel time (min) | G | 27 |
| VARSTRAT | N | 2 | S | Sample stratum | * | * |
| WHYTRP95 | С | 2 | N | Purpose of trip (1995 definition) | G | 20 |
| | | | | | | |

| WORKER | С | 2 | S | Respondent is a worker | D | 12 |
|----------|---|------|---------|------------------------------|---|----|
| | | | | | | |
| | | | | | | |
| WRKCOUNT | N | 2 | WRKRCNT | No. of workers in HH | * | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| WTTRDFIN | N | 11.2 | S | Final travel day trip weight | * | * |

Target

| Target Variable | Value Range and Codes: | Freqs: | Comments: |
|--------------------|---|------------|---|
| | | | |
| | 9999= Refused | 0 | |
| VARSTRAT | (1 - 70) | 3,779 | |
| WHYTRP95 | 01= To work | | See documentation notes |
| | 02= Work-related business | 56 | |
| | 03= Return to work | 11 | |
| | 04= Shopping | 237 | |
| | 05= School | 198 | |
| | 06= Religious activity 07= Medical/dental | 36 | |
| | | 101 286 | |
| | 08= Other family or personal business 09= Take someone somewhere | 28b | |
| | 10= Pick up someone | 32 | |
| | 11= Vacation | 6 | |
| | 12= Visit friends or relatives | 199 | |
| | 13= Went out to eat | 39 | |
| | 14= Other social/recreational | 204 | |
| | 15= Change means of transportation | 0 | |
| | 16= Other - specify | 6 | |
| | 17= Home | 1,431 | |
| | 94= Legitimate skip | 0 | |
| | 98= Not ascertained | 0 | |
| | 99= Refused | 0 | |
| WORKER | 01= Yes | 2,387 | Response to question D-12, as verified or corrected by the response to F-2 |
| | 02= No | 1,392 | |
| | 94= Legitimate skip | 0 | |
| | 98= Not Ascertained | 0 | |
| | 99= Refused | 0 | |
| WRKCOUNT | | | Derived from WORKER variable |
| | 1 | 1,343 | |
| | 2 | 1,285 | |
| | 3 | 359 | |
| | 4 5 | 110 22 | |
| | 6 | 22 8 | |
| | 7 | 1 | |
| WITRDFIN | (49 - 17201955) | 3,779 | Used to weight travel day trip file and segmented trip file data (weights up to annual estimates) |

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| Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-----------|--------------|--------|-----------|---|----------|----------|
| CALCDIST | N | 5 | * | Calculated distance home to destination | * | * |
| CENSUS_D | C | 2 | S | Census division | * | * |
| | | | | | | |
| | | | | | | |
| CENSUS_R | С | 2 | S | Census region | * | * |
| | | | | | | |
| COUNTRY | С | 3 | S | Destination country code | Н | 2 |

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| WIID IIUVCI | reriod rine code book rubii | | (This page revised March 1999) | | | | |
|-------------|--|--------|---|--|--|--|--|
| Target | | | (IIIIB page levibea natem 1999) | | | | |
| Variable | Value Range and Codes: | | : Comments: | | | | |
| | | | | | | | |
| CALCDIST | (0.08 - 11767.29) | | 27,091 Calculated as straight-line distance | | | | |
| | 9998= Not ascertained | | ,556 | | | | |
| 9 | 9990- NOC ascertained | ۷, | , 550 | | | | |
| CENSUS D | 01= New England | 6,046 | 5 | | | | |
| | 02= Middle Atlantic | 8,055 | | | | | |
| | 03= East North Central | 2,646 | | | | | |
| | 04= West North Central | 1,214 | | | | | |
| | 05= South Atlantic | 2,833 | | | | | |
| | 06= East South Central | 860 | | | | | |
| | 07= West South Central | 4,542 | 2 | | | | |
| | 08= Mountain | 912 | | | | | |
| | 09= Pacific | 2,539 |) | | | | |
| | | | | | | | |
| CENSUS_R | 01= Northeast | 14,101 | L | | | | |
| | 02= North Central | 3,860 | | | | | |
| | 03= South | 8,235 | | | | | |
| | 04= West | 3,451 | l . | | | | |
| COLDEDIA | Total de the Thille d Chales | 20 105 | _ | | | | |
| COUNTRY | Inside the United States Former Soviet Union | 29,105 | | | | | |
| | | 1 2 | | | | | |
| | South Africa Greece | 1 | =' | | | | |
| | Netherlands | 1 | | | | | |
| | France | 6 | | | | | |
| | Spain | 2 | | | | | |
| | Italy | 3 | | | | | |
| | United Kingdom | 10 | | | | | |
| | Norway | 1 | | | | | |
| | Germany | 2 | | | | | |
| | Peru | 3 | | | | | |
| | Mexico | 52 | 2 | | | | |
| | Argentina | 1 | L | | | | |
| | Brazil | 2 | 2 | | | | |
| | Chile | 1 | L | | | | |
| | Australia | 2 | 2 | | | | |
| | New Zealand | 0 | | | | | |
| | Japan | 1 | | | | | |
| | Republic of Korea | 1 | | | | | |
| | China | 2 | | | | | |
| | Turkey | 1 | | | | | |
| | India | 1 | | | | | |
| | Ghana | 1 | | | | | |
| | Congo | 2 | | | | | |
| | 246 | 2 | | | | | |
| | Aruba | 1 | | | | | |
| | Lithuania | 1 | | | | | |
| | Bosnia or Herzegovina Bermuda | 7 | | | | | |
| | Belize | 1 | | | | | |
| | Guatemala | 1 | | | | | |
| | Honduras | 1 | | | | | |
| | Costa Rica | 0 | | | | | |
| | CODEA ILLO | U | , | | | | |

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DESTSTAT C 2 S Destination state of travel period trip H 2

| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|--------------------------|----------|----------|
| COUNTRY | С | 3 | S | Destination country code | Н | 2 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Target

| Target | | | |
|-----------|---------------------------------------|--------|-----------|
| Variable | Value Range and Codes: | Freqs: | Comments: |
| | | | |
| | | | |
| | Ecuador | 1 | |
| | The Carribbean | 15 | |
| | Hong Kong | 1 | |
| | Saudi Arabia | 1 | |
| | Israel | 4 | |
| | British Columbia | 19 | |
| | Quebec, Canada | 4 | |
| | Ontario, Canada | 8 | |
| | New Brunswick, Canada | 0 | |
| | Unknown province of Canada | 199 | |
| | Not ascertained | 176 | |
| DECECTATE | 94= Legitimate skip (Foreign Country) | 395 | |
| DESISIAI | | | |
| | 98= Not ascertained | 131 | |
| | 99= Refused | 16 | |
| | Alaska | 51 | |
| | Alabama | 217 | |
| | Arkansas | 269 | |
| | Arizona | 175 | |
| | California | 1,569 | |
| | Colorado | 251 | |
| | Connecticut | 848 | |
| | District of Columbia | 152 | |
| | Delaware | 88 | |
| | Florida | 838 | |
| | Georgia | 436 | |
| | Hiwaii | 31 | |
| | Iowa | 189 | |
| | Idaho | 98 | |
| | Illinois | 582 | |
| | Indiana | 335 | |
| | Kansas | 255 | |
| | Kentucky | 204 | |
| | Louisiana | 280 | |
| | Massachusetts | 2,935 | |
| | Maryland | 305 | |
| | Maine | 462 | |
| | Michigan | 603 | |
| | Minnesota | 350 | |
| | Missouri | 445 | |
| | Mississippi | 180 | |
| | Montana | 97 | |
| | North Carolina | 552 | |
| | North Dakota | 97 | |
| | Nebraska | 115 | |
| | Hew Hampshire | 806 | |
| | New Jersey | 1,021 | |
| | | 1,021 | |
| | New Mexico | | |
| | Nevada | 184 | |
| | New York | 5,016 | |
| | Ohio | 650 | |
| | Oklahoma | 2,096 | |
| | | | |

CLAR *

Var

Target

DESTSTAT C 2 S Destination state of travel period trip H 2

DRIVER C 2 LIC_DRVR Person is a driver D9 D 9

DRVRCNT N 2 S Number of drivers in HH D *

DRVR_TPT C 2 * Person was the main driver on trip * *

HBHINMED N 6 * Median household income, BG CLAR *

Progid: disk46:[wmynpts.pubfiles]cbrp_tper.sas Date: 23SEP97

HBHRESDN N 6 * HU density (units/square mile), BG

Target

| | Value Range and Codes: | | Comments: |
|----------|-------------------------|--------|--|
| | | | |
| | Oregon | 303 | |
| | Pennsylvania | 1,189 | |
| | Rhode Island | 311 | |
| | South Carolina | 293 | |
| | South Dakota | 65 | |
| | Tennessee | 426 | |
| | Texas | 1,343 | |
| | Utah | 129 | |
| | Virginia | 534 | |
| | Vermont | 380 | |
| | Washington | 541 | |
| | Wisconsin | 501 | |
| | West Virginia | 126 | |
| | Wyoming | 63 | |
| DRIVER | 01= Yes | 25,699 | Driver status reported in D-9, and verified or corrected in E-6 or E-7 |
| | 02= No | 3,948 | |
| DRVRCNT | 0 | 306 | Derived from the variable DRIVER |
| | 1 | 4,334 | |
| | 2 | 18,602 | |
| | 3 | 4,743 | |
| | 4 | 1,436 | |
| | 5 | 182 | |
| | 6 | 41 | |
| | 7 | 3 | |
| DRVR_TPT | 01= Yes | 17,860 | Imputed variable indicating that the sample person drove on the travel period trip |
| | 02= No | 8,175 | |
| | 94= Legitimate skip | 2,425 | |
| | 98= Not Ascertained | 1,187 | |
| | 99= Refused | 0 | |
| HBHINMED | 15,000= 0 to 20K | 1,698 | |
| | 22,000= 20K to 25K | 2,279 | |
| | 27,000= 25K to 30K | 3,323 | |
| | 32,000= 30K to 35K | 4,196 | |
| | 37,000= 35K to 40K | 3,529 | |
| | 45,000= 40K to 50K | 6,103 | |
| | 60,000= 50K to 70K | 6,116 | |
| | 80,000= 70K to 999K | 2,217 | |
| | 999998= Not ascertained | 186 | |
| HBHRESDN | 25= 0 to 50 | 5,262 | |
| | 150= 50 to 250 | 5,559 | |
| | 700= 250 to 1000 | 7,040 | |
| | 2000= 1000 to 3000 | 7,816 | |
| | 4000= 3000 to 5000 | 1,862 | |
| | 6000= 5000 to 999K | 1,922 | |
| | 999998= Not ascertained | 186 | |
| | | | |

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| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|---------------------------------|----------|----------|
| HBHUR | С | 1 | * | Urban/rural code, block group | CLAR | * |
| | | | | | | |
| HBPPOPDN | N | 6 | * | Population density, block group | CLAR | * |
| | | | | | | |
| | | | | | | |
| HHCMSA | С | 4 | SMSA | CMSA identification code | * | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |

HHFAMINC C 2 S HH family income category K 1 & 2

Target

| Target | | | |
|----------|---|--------|--|
| | Value Range and Codes: | | Comments: |
| | | | |
| HBHUR | Not ascertained | 186 | |
| | Second city | 5,811 | |
| | Rural | 5,916 | |
| | Suburban | 6,704 | |
| | Town | 8,499 | |
| | Urban | 2,531 | |
| HBPPOPDN | 50= 0 to 100 | 4,412 | |
| | 300= 100 to 500 | 5,509 | |
| | 750= 500 to 1K | 3,038 | |
| | 1,500= 1K to 2K | 3,567 | |
| | 3,000= 2K to 4K | 4,904 | |
| | 7,000= 4K to 10K | 5,709 | |
| | 17,000= 10K to 25K | 1,476 | |
| | 30,000= 25K to 999K | 846 | |
| | 999998= Not ascertained | 186 | |
| HHCMSA | Chicago-Gary-Kenosha, IL-IN-WI CMSA | 445 | |
| | Cincinnati-Hamilton, OH-KY-IN CMSA | 96 | |
| | Cleveland-Akron, OH CMSA | 116 | |
| | Dallas-Fort Worth, TX CMSA | 224 | |
| | Denver-Boulder-Greeley, CO CMSA | 81 | |
| | Detroit-Ann Arbor-Flint, MI CMSA | 222 | |
| | Houston-Galveston-Brazoria, TX CMSA | 204 | |
| | Los Angeles-Riverside-Orange County | 617 | |
| | Miami-Fort Lauderdale, FL CMSA | 146 | |
| | Milwaukee-Racine, WI CMSA | 104 | |
| | New York-No. New Jersey-Long Island | 3,136 | |
| | Philadelphia-Wilmington-Atlantic City | 395 | |
| | Portland-Salem, OR-WA CMSA | 167 | |
| | Sacramento-Yolo, CA CMSA | 137 | |
| | San Francisco-Oakland-San Jose, CA CMSA | 337 | |
| | Seattle-Tacoma-Bremerton, WA CMSA | 481 | |
| | Washington-Baltimore, DC-MD-VA-WV CMSA | 522 | |
| | Not in a CMSA | 22,217 | |
| HHFAMINC | 01= Less than \$5,000 | 212 | Based on questions of Section K.See olso NONFMFLG and NONFMINC |
| | 02= \$5,000 - 9,999 | 616 | |
| | 03= \$10,000 - 14,999 | 841 | |
| | 04= \$15,000 - 19,999 | 1,349 | |
| | 05= \$20,000 - 24,999 | 1,275 | |
| | 06= \$25,000 - 29,999 | 2,325 | |
| | 07= \$30,999 - 34,999 | 1,482 | |
| | 08= \$35,000 - 39,999 | 2,514 | |
| | 09= \$40,000 - 44,999 | 1,303 | |
| | 10= \$45,000 - 49,999 | 2,405 | |
| | 11= \$50,000 - 54,999 | 1,017 | |
| | 12- 855 000 50 000 | 2,108 | |
| | 12= \$55,000 - 59,999 | 2/100 | |
| | 13= \$60,000 - 64,999 | 742 | |
| | | | |

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| Variable: | | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-----------|---|--------|-----------|---|----------|----------|
| HHFAMINC | C | 2 | S | HH family income category | | 1 & 2 |
| | | | | | | |
| HHMSA | C | 4 | S | MSA identification code | * | * |
| HHSIZE | N | 2 | S | Total number of persons in HH | D | 1 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| HHTRPID | N | 3 | N | Trip number for household travel period | * | * |
| | | | | | | |

HHVEHCNT N 2 S No. of vehicles in household (derived) B

| | Value Range and Codes: | | Comments: |
|----------|---|---|-----------|
| | 16= \$75,000 - 79,999 17= \$80,000 - 99,999 18= \$100,000 and over 98= Not ascertained 99= Refused | 1,107 1,730 2,229 1,776 2,582 | |
| HHMSA | (0520 - 8840 | | |
| HHSIZE | 1 2 3 4 5 6 7 8 9 | 2,489 9,923 6,018 6,709 3,048 1,033 290 91 19 | |
| HHTRPID | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | 13,923 7,620 3,673 2,150 1,141 491 255 171 103 77 14 8 5 4 3 2 2 2 2 1 | |
| HHVEHCNT | 0 1 2 3 4 5 6 7 8 9 | 749 5,431 14,925 5,916 1,867 549 156 46 5 | |

Target Var

| Variable: | Type: | Width: | 1990 Var: | Variable Label: | | Item ID: |
|-----------|-------|--------|-----------|--|---|----------|
| HHVEHCNT | | 2 | | No. of vehicles in household (derived) | | * |
| HH_HISP | С | 2 | S | Hispanic status of ref. person | D | 5 |
| | | | | | | |
| HH_RACE | C | 2 | S | Race of reference person | D | 6 |
| | | | | | | |
| | | | | | | |
| HOUSEID | N | 8 | S | Household identification number | * | * |
| LIF_CYC | С | 2 | S | Family life cycle | D | 3 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| MSASIZE | С | 2 | S | Size of MSA of household | * | * |
| | | | | | | |
| | | | | | | |
| MSTR_MON | N | 2 | S | Date of master interview - month | * | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| MSTR_YR | N | 2 | S | Date of master interview - year | * | * |
| PERSONID | N | 2 | S | Person ID number | * | * |
| THUSONIT | τN | 4 | J | LCIBOH ID HUMBEL | | |

| - 47 | - | ~~ | _ | + |
|------|---|----|---|---|

| | Value Range and Codes: | | Comments: |
|------------|--|----------------|-------------------------------------|
| | 10 | 0 | |
| IIII IIIAD | 01 11: | 065 | |
| HH_HISP | 01= Hispanic 02= Non-hispanic | 865 28,735 | |
| | 98= Not Ascertained | 10 | |
| | 99= Refused | 37 | |
| HH_RACE | 01= White | 26,622 | |
| | 02= African-american | 1,256 | |
| | 03= Asian | 346 | |
| | 04= Other | 1,123 | |
| | 98= Not Ascertained | 83 | |
| | 99= Refused | 217 | |
| HOUSEID | (1000454 - 12227328) | 29,647 | |
| LIF_CYC | 01= 1 adult, no children | 2,081 | See documentation notes for LIF_CYC |
| | 02= >1 adult, no children | 8,560 | |
| | 03= 1 adult, child age 0-5 | 228 | |
| | 04= >1 adult, child age 0-5 | 5,511 | |
| | 05= 1 adult, child age 6-15 | 623 | |
| | 06= >1 adult, child age 6-15 | 6,689 | |
| | 07= 1 adult, child age 16-21 | 258 | |
| | 08= >1 adult, child age 16-21 09= 1 adult, retired, no children | 2,035 414 | |
| | 10= >1 adult, retired, no children | 3,248 | |
| MSASIZE | 01= Less than 250,000 | 3,234 | See documentation notes for MSASIZE |
| | 02= 250,000 - 499,999 | 1,864 | |
| | 03= 500,000 - 999,999 | 3,672 | |
| | 04= 1,000,000 - 2,999,999 | 5,186 | |
| | 05= 3,000,000 or more | 10,110 | |
| | 94= Legitimate skip, not in an MSA | 5,581 | |
| MSTR_MON | 1= January | · | Date of the household interview |
| | 2= February 3= March | 2,347 3,069 | |
| | 4= April | 2,447 | |
| | 5= May | 3,684 | |
| | 6= June | 3,442 | |
| | 7= July | 2,396 | |
| | 8= August | 2,139 | |
| | 9= September | 1,748 | |
| | 10= October | 2,469 | |
| | 11= November | 2,156 | |
| | 12= December | 1,679 | |
| MSTR_YR | 95 | 17,962 | Date of the household interview |
| | 96 | 11,685 | |
| PERSONID | 1 | 15,517 | |
| | 2 | 9,333 | |
| | | | |

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| Target Variable: | Var Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|---------------------|--------------|--------|-----------|------------------------------------|----------|----------|
| PERSONID | N | 2 | S | Person ID number | * | * |
| | | | | | | |
| PROXY | С | 2 | H_PROXY | Proxy respondent for person data | * | * |
| RAIL | С | 2 | N | Presence/absence of rail | * | * |
| RET_MON | С | 2 | S | Return month of travel period trip | Н | 3 |
| | | | | | | |
| | | | | | | |
| RET_YR | С | 2 | S | Return year of travel period trip | Н | 3 |
| R_AGE | N | 3 | S | Age of sample person | D | 3 |
| | | | | | | |
| R_SEX | С | 2 | S | Sex of sample person | D | 4 |
| SUBSTRAT | N | 1 | * | Substratum within VARSTRAT | * | * |
| SUM_STAT | С | 3 | N | Summary status code for household | * | * |
| TDAY_MON | N | 2 | S | Travel day date (MM) | * | * |

(This page revised March 1999)

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| Target | | | (IIIIs page levised mater 1999) |
|----------|---------------------------------------|------------------|---|
| Variable | Value Range and Codes: | Freqs: | Comments: |
| | | | |
| | 3 | 3,046 | |
| | 4 | 1,316 | |
| | 5 | 339 | |
| | 6 | 73 | |
| | 7 | 22 | |
| | 8 | 1 | |
| | 9 | 0 | |
| | 10 | 0 | |
| PROXY | 01= Yes | 6,999 | 01=person and trip data were collected from proxy respondent |
| | 02= No | 22,648 | proxy respondent |
| RAIL | 01= Yes | 1,753 | 01=Urban areas 1,250,000 population or greater with subway/elevated rail,02=other areas |
| | 02= No | 27,894 | arcab |
| RET_MON | 1= January | 1,597 | Date returned home (travel period trip) |
| | 2= February | 2,147 | |
| | 3= March | 3,373 | |
| | 4= April | 2,628 | |
| | | | |
| | 5= May | 3,623 | |
| | 6= June | 3,158 | |
| | 7= July | 2,660 | |
| | 8= August | 2,108 | |
| | 9= September | 1,921 | |
| | 10= October | 2,457 | |
| | 11= November | 2,272 | |
| | 12= December | 1,687 | |
| | 98= Not ascertained | 16 | |
| RET_YR | 95 | 17.517 | Date returned home (travel period trip) |
| _ | 96 | 12,114 | |
| | 98= Not ascertained | 16 | |
| R AGE | (5 - 88) | 29,0 | 647 |
| | 5-75= (ages 5-75 | 29,135 | |
| | 77= (ages 76-79) | 299 | |
| | | 164 | |
| | 82= (ages 80-84) 88= (ages 85-102) | 49 | |
| | _ | 16.660 | |
| R_SEX | 01= Male 02= Female | 16,663 12,984 | |
| | | | |
| SUBSTRAT | 1 2 | 471 29,176 | |
| | | | |
| SUM_STAT | 050 | 26,396 | 50=all adults responded, 51=at least 50% of adults responded |
| | 051 | 3,251 | addits responded |
| TDAY MON | 1= January | 1,489 | Date of travel day for the household |
| | 2= February | 2,035 | |
| | 3= March | 3,299 | |
| | 4= April | 2,868 | |
| | | | |
| | 5= May | 3,322 | |

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Target Var

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| Variable: | Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-----------|-------|--------|-----------|----------------------------|----------|----------|
| | | | | | * | |
| | | | | | | |
| TDAY_YR | N | 2 | S | Travel day date (YY) | * | * |
| TOWHYPAS | C | 2 | N | Trip purpose for passenger | Н | 7 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

TOWHYTRP C 2 S Trip purpose travel period trip H 6

Target

| Target | | | |
|----------|---------------------------------------|--------|---------------------------------------|
| | Value Range and Codes: | | Comments: |
| | | | |
| | 6= June | 3,039 | |
| | 7= July | 2,826 | |
| | 8= August | 2,306 | |
| | 9= September | 2,098 | |
| | 10= October | 2,337 | |
| | 11= November | 2,353 | |
| | 12= December | 1,675 | |
| | 12- December | 1,075 | |
| TDAY_YR | 95 | 17,139 | Date of travel day for the household |
| | 96 | 12,508 | |
| TOWHYPAS | 01= To work | 20 | Question is asked only if TOWHYTRP=09 |
| | 02= Work-related business | 24 | - |
| | 03= Return to work | 2 | |
| | 04= Shopping | 8 | |
| | 05= School | 91 | |
| | 06= Religious activity | 1 | |
| | 07= Medical/dental | 65 | |
| | 08= Other family or personal business | 48 | |
| | 09= Take someone somewhere | 0 | |
| | 10= Pick up someone | 0 | |
| | 11= Vacation | 22 | |
| | 12= Visit friends or relatives | 80 | |
| | 13= Went out to eat | 0 | |
| | 14= Other social/recreational | 48 | |
| | 15= Change mode of transportation | 0 | |
| | | 0 | |
| | 16= Other, specify | - | |
| | 17= Home | 131 | |
| | 94= Legitimate skip | 29,103 | |
| | 98= Not ascertained | 4 | |
| | 99= Refused | 0 | |
| TOWHYTRP | 01= To work | 1,845 | Sample person's main purpose for trip |
| | 02= Work-related business | 4,895 | |
| | 03= Return to work | 0 | |
| | 04= Shopping | 1,239 | |
| | 05= School | 294 | |
| | 06= Religious activity | 231 | |
| | 07= Medical/dental | 570 | |
| | 08= Other family or personal business | 3,018 | |
| | 09= Take someone somewhere | 544 | |
| | 10= Pick up someone | 514 | |
| | 11= Vacation | 1,915 | |
| | 12= Visit friends or relatives | 7,713 | |
| | 13= Went out to eat | 84 | |
| | 14= Other social/recreational | 6,275 | |
| | 15= Change mode of transportation | 0,273 | |
| | | 494 | |
| | | | |
| | 16= Other, specify | | |
| | 17= Home | 0 | |
| | 17= Home 94= Legitimate skip | 0 | |
| | 17= Home | 0 | |

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Target Var
Variable: Type: Width: 1990 Var: Variable Label: Section: Item ID:

TO_TRANS C 2 N Main transporation means - period trip H 8

TPER_BMO N 2 S Travel period beginning date (MM) * *

TPER_BYR N 2 S Travel period beginning date (YY) * *

TPER_EMO N 2 S Travel period ending date (MM) * *

| Target | | | ~ |
|----------|---------------------------------|--------|------------------------------|
| Variable | Value Range and Codes: | Freqs: | Comments: |
| | 01= Automobile | | Main means of transportation |
| IO_IRANS | 02= Van | 2,997 | Main means of transportation |
| | 03= Sport utility vehicle | 1,254 | |
| | 04= Pickup truck | 2,594 | |
| | 05= Other truck | 704 | |
| | 06= RV (recreational vehicle) | 89 | |
| | | 44 | |
| | 07= Motorcycle 08= Other POV | 73 | |
| | 09= Bus | 507 | |
| | | | |
| | 10= Amtrak | 103 | |
| | 11= Commuter train | 115 | |
| | 12= Streetcar/trolley | 11 | |
| | 13= Subway/elevated rail | 33 | |
| | 14= Airplane | 1,283 | |
| | 15= Taxicab | 3 | |
| | 16= Bicycle | 4 | |
| | 17= Walk | 6 | |
| | 18= School bus | 130 | |
| | 19= Other non-POV | 190 | |
| | 94= Legitimate skip | 0 | |
| | 98= Not ascertained | 40 | |
| | 99= Refused | 0 | |
| TPER_BMO | 1= January | 1,980 | |
| | 2= February | 2,435 | |
| | 3= March | 3,024 | |
| | 4= April | 2,433 | |
| | 5= May | 3,783 | |
| | 6= June | 3,524 | |
| | 7= July | 2,280 | |
| | 8= August | 2,167 | |
| | 9= September | 1,762 | |
| | 10= October | 2,464 | |
| | 11= November | 2,148 | |
| | 12= December | 1,647 | |
| TPER_BYR | 95 | 17,777 | |
| | 96 | 11,870 | |
| TPER_EMO | 1= January | 1,489 | |
| | 2= February | 2,035 | |
| | 3= March | 3,299 | |
| | 4= April | 2,868 | |
| | 5= May | 3,322 | |
| | 6= June | 3,039 | |
| | 7= July | 2,826 | |
| | 8= August | 2,306 | |
| | 9= September | 2,098 | |
| | 10= October | 2,337 | |
| | 11= November | 2,353 | |
| | 12= December | 1,675 | |
| | | =,3,3 | |

Target Var

| Variable: | Type: | Width: | 1990 Var: | Variable Label: | Section: | Item ID: |
|-----------|-------|--------|-----------|-----------------------------------|----------|----------|
| | | | | Travel period ending date (YY) | | |
| TRIPNUM | N | 2 | S | Persons travel period trip number | Н | * |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| VARSTRAT | N | 2 | S | Sample stratum | * | * |
| WORKER | С | 2 | S | Respondent is a worker | D | 12 |
| WRKCOUNT | N | 2 | WRKRCNT | No. of workers in HH | * | * |
| | | | | | | |
| | | | | | | |
| WTTRPFIN | N | 11.3 | S | Final travel period trip weight | * | * |

| Target Variable | Value Range and Codes: | Freqs: | Comments: |
|--------------------|------------------------|--------|--|
| | | | |
| TPER_EYR | 95 | 17,139 | |
| | 96 | 12,508 | |
| | | | |
| TRIPNUM | 1 | 20,945 | ID number of trip for sample person. See documentation for TRIPNUM |
| | 2 | 5,104 | documentation for TRIPNOM |
| | 3 | 1,842 | |
| | 4 | 1,016 | |
| | 5 | 607 | |
| | 6 | 43 | |
| | 7 | 31 | |
| | 8 | 25 | |
| | 9 | 18 | |
| | 10 | 12 | |
| | 11 | 3 | |
| | 12 | 1 | |
| | | | |
| VARSTRAT | (1 - 70) | 29,647 | |
| | | | |
| WORKER | 01= Yes | 20,462 | Response to question D-12, as verified or |
| | | | corrected by the response to F-2 |
| | 02= No | 9,185 | |
| WRKCOUNT | 0 | 3.120 | Derived from WORKER variable |
| | 1 | 8,806 | |
| | 2 | 13,785 | |
| | 3 | 2,955 | |
| | 4 | 853 | |
| | 5 | 113 | |
| | 6 | 10 | |
| | 7 | 5 | |
| | | | |
| WTTRPFIN | (3 - 1416647) | 29,647 | Used to weight travel period trip file data |
| | | | (weights up to annual estimates) |

APPENDIX D. TRAVEL CONCEPTS AND GLOSSARY OF TERMS

TRAVEL CONCEPTS

PERSON TRIP

DEFINITION - A trip by one person in any mode of transportation. This is the most basic and universal measure of personal travel. Each record in the Travel Day and Travel Period files in the NPTS dataset represents one person trip.

EXAMPLES - Two people travelling together in one car are counted as two person trips. Three people walking to the store together are counted as three person trips.

WHEN TO USE -The unit of person trips must be used when comparing travel by various modes (e.g., private vehicles, public transportation, walking, school bus, air, etc.). It is the appropriate unit of measure for the movement of people, as opposed to vehicles, e.g., "the High Occupancy Vehicle (HOV) lanes carry 42 percent of all person trips to the central city."

HOW TO COMPUTE - Because the person trip is the basic unit of measure on the Travel Day files, to obtain total person trips, the user should sum the weighted travel day records, i.e. sum WTTRDFIN. The resulting estimate is 378,930,000,000 person trips made by U.S. residents in the course of a year.

PERSON MILES OF TRAVEL (PMT)

DEFINITION - The number of miles travelled by each person on a trip.

EXAMPLES - If two people travelling together take a six-mile subway trip to the airport, that trip results in 12 person miles of travel. A four-mile van trip with a driver and three passengers counts as 16 person miles of travel.

WHEN TO USE - As with person trips, person miles must be used when analyzing travel by the various modes of transport. It is the appropriate measure when the topic of analysis is the miles travelled by people, not vehicles.

ALIAS - Person miles is often called Passenger Miles, particularly in the transit and airline industries.

HOW TO COMPUTE- Multiply each weighted person trip (WTTRDFIN) by the trip distance in miles (TRPMILES). When this is done for all trips on the Travel Day file with miles reported, the resulting estimate is 3,411,122 million person miles of travel by U.S. residents in the course of a year.

WARNING - When computing TRPMILES, be sure to exclude entries of:

9998, miles not ascertained, and 9999, refused to report miles.

Also, remember to convert any special codes, such as:
9996, less than one block, to some appropriate measure
such as 0.06 mile, and
9997. half a mile, to 0.5 miles.

VEHICLE TRIPS

DEFINITION - A trip by a single privately operated vehicle (POV) regardless of the number of persons in the vehicle.

EXAMPLES - Two people travelling together in a car would be counted as one vehicle trip. Four people going to a restaurant in a van is considered one vehicle trip.

NPTS MODE RESTRICTIONS - To be considered a vehicle trip in NPTS, the trip must have been made in a privately operated vehicle, namely a household-based car, van, sport utility vehicle, pickup truck, other truck, recreational vehicle, motorcycle or other POV. The vehicle does not need to belong to the household.

Trips made in other highway vehicles, such as buses, streetcars, taxis, and school buses are collected in the NPTS, but these are shown as person trips by those modes. The design of the NPTS is such that it does not serve as a source for vehicle trips in modes such as buses, because there is no way to trace the movement of the bus fleet throughout the day. Those interested in vehicle trips by buses, taxis, etc. need to use a data source that relies on reports from the fleet operators of those vehicles. The Section 15 report published by the Federal Transit Administration is one such source.

WHEN TO USE - The unit of vehicle trips is most appropriately

used when considering POV travel, e.g., "20 percent of all POV trips are for commuting to and from work."

HOW TO COMPUTE -The variable VTR_FLG was created to allow the data user to select the vehicle trip records from the travel day file. The typical manner of computing vehicle trips from the NPTS file is to impose two limits on the full universe of Travel Day trips:

- travel mode must be POV (TRPTRANS = 01 -08), and
- only the driver's trip is captured (DRVR_FLG = 01).

The second limitation is to insure that the trip is counted only once. Remember that the NPTS Travel Day file is a person trip file, so if three household members went somewhere by car, that trip is reflected in three travel day trip records. To insure that it is only counted once as a vehicle trip, the driver's record is used.

To obtain the total of all vehicle trips, sum all weighted trips that meet the two conditions above, i.e., where VTR_FLG = 01. The resulting estimate is 229,745,000,000 vehicle trips made by U.S. residents in the course of a year.

VEHICLE MILES OF TRAVEL (VMT)

DEFINITION - One vehicle mile of travel is the movement of one privately operated vehicle (POV) for one mile, regardless of the number of people in the vehicle.

EXAMPLES- When one person drives her car 12 miles to work, 12 vehicle miles of travel have been made. If two people travel three miles by pickup, three vehicle miles of travel have been made.

SAME MODE RESTRICTIONS - For NPTS data, vehicle miles are restricted to the same privately-operated vehicles as vehicle trips(see above), that is a household-based car, van, sport utility vehicle, pickup truck, other truck, recreational vehicle, or other POV. .

WHEN TO USE- Vehicle miles of travel (VMT) are a very commonly used measure of highway travel. This measure is particularly important when analyzing highway capacity, congestion and air quality.

HOW TO COMPUTE - Multiply each weighted vehicle trip by the distance. In terms of NPTS variables, this would look like

(VTR_FLG=01 times WTTRDFIN) times TRPMILES. **WARNING** - When computing TRPMILES, be sure to exclude entries of:

9998, miles not ascertained, and 9999, refused to report miles.

Also, remember to convert any special codes, such as: 9996, less than one block, to some appropriate measure such as 0.06 mile, and 9997, half a mile, to 0.5 miles.

The annual estimate for VMT from the 1995 NPTS is 2,068,368 million vehicle miles.

VEHICLE OCCUPANCY

DEFINITION - For NPTS data, vehicle occupancy is generally computed as person miles of travel per vehicle mile (referred to as the travel method) . Note that the other commonly-used definition of vehicle occupancy is persons per vehicle trip (referred to as the trip method) .

COMMENTS - Because longer trips often have higher occupancies, the travel method generally yields a higher rate (1.59 for the 1995 NPTS) than the trip method (1.50). The calculation of the travel method requires that trip miles be reported, thus it is calculated on a slightly smaller number of trips than the trip method.

HOW TO COMPUTE - The four variables that may be used in the computation are described earlier in this section. Just remember to limit the denominator to person trips or person miles **in POVs**.

GLOSSARY

This glossary provides the most common terms used in the NPTS and definitions of those terms. These definitions are provided to assist the user in the interpretation of the NPTS data.

Adult

For NPTS, this is defined as a person 18 years or older.

Block Group

A subdivision of a Census tract that averages 1000 to 1100 people, and approximately 400-500 housing units.

Census
Region and
Division

The Census Bureau divides the states into four regions and nine divisions. Note that the divisions are wholly contained within a region, i.e., region lines do not split division lines. The regions and their component divisions are:

Northeast Region

New England Division: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont Middle Atlantic Division: New Jersey, New York, Pennsylvania

North Central Region

East North Central Division: Illinois, Indiana, Michigan, Ohio, Wisconsin

West North Central Division: Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota

South Region

South Atlantic Division: Delaware, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, West Virginia

East South Central Division: Alabama, Kentucky, Mississippi, Tennessee

West South Central Division: Arkansas, Louisiana,

Oklahoma, Texas

West Region

Mountain Division: Arizona, Colorado, Idaho, Montana,

Nevada, New Mexico, Utah, Wyoming **Pacific Division**: Alaska, California, Hawaii, Oregon,

Washington

Census Tract -

A small subdivision of a county, containing approximately 4,000 persons. Tracts can range in population from 2,500 to 8,000. The geographic size of the tract may vary considerably, depending on population density. Tracts were designed to be homogeneous in regard to population characteristics, economic status and living conditions when they were first delineated. Since the first tracts were delineated for the 1890 Census, today's tracts may be far from homogeneous.

Consolidated Metropolitan Statistical Area (CMSA)

A large metropolitan complex of 1 million or more population, containing two or more identifiable component parts designated as primary metropolitan statistical areas (PMSAs). For example, the Boston CMSA is composed of six PMSAs.

Destination

For travel day trips, the destination is the point at which there is a break in travel, except if the break is only to change vehicles or means of transport.

For travel period trips, the destination is the farthest point of travel.

Driver

A driver is a person who operates a motorized vehicle. If more than one person drives on a single trip, the person who drives the most miles is classified as the principal driver.

Employed

A person is considered employed if he/she worked for pay, either full time or part time, during the week before the interview.

Education Level

The number of years of regular schooling completed in graded public, private, or parochial schools, or in colleges, universities, or professional schools, whether day school or night school. Regular schooling advances a person toward an elementary or high school diploma, or a college, university, or professional school degree.

Household

A group of persons whose usual place of residence is a specific housing unit; these persons may or may not be related to each other. The total of all U.S. households represents the total civilian non-institutionalized population. A household does not include group quarters (i.e., 10 or more persons living together, none of whom are related).

Household Income

Household income is the money earned by all family members in a household, including those temporarily absent. Annual income consisted of the income earned 12 months preceding the interview. Household income includes monies from all sources, such as wages and salary, commissions, tips, cash bonuses, income from a business or farm, pensions, dividends, interest, unemployment or workmen's compensation, social security, veterans' payments, rent received from owned property (minus the operating costs), public assistance payments, regular gifts of money from friends or relatives not living in the household, alimony, child support, and other kinds of periodic money income other than earnings. Household income excludes in-kind income such as room and board, insurance payments, lump-sum inheritances, occasional gifts of money from persons not living in the same household, withdrawal of savings from banks, tax refunds, and the proceeds of the sale of one's house, car, or other personal property.

Household Members

Household members include all people, whether present or temporarily absent, whose usual place of residence is in the sample unit. Household members also include people staying in the sample unit who have no other usual place of residence elsewhere.

Household Vehicle

A household vehicle is a motorized vehicle that is owned, leased, rented or company-owned and available to be used regularly by household members during the two-week travel period. Household vehicles include vehicles used solely for business purposes or business-owned vehicles, so long as they are driven home and can be used for the home to work trip, (e.g., taxicabs, police cars, etc.). Household vehicles include all vehicles that were owned or available for use by members of the household during the travel period, even though a vehicle may have been sold before the interview. Vehicles excluded from household vehicles are those which were not working and were not expected to be working within 60 days, and vehicles that were purchased or received after the designated travel day.

Licensed Driver

A licensed driver is any person who holds a valid driver's license from any state.

Means of Transportation

A mode of travel used for going from one place (origin) to another (destination). A means of transportation includes private and public modes, as well as walking. For travel day trips, each new destination constitutes a separate trip, UNLESS it was to change vehicles or means of transport. A trip made to change means was given segmented treatment if one of the means used was public transportation or Amtrak (see discussion of segmented trips in Chapter 4, Section B of this Guide.)

The following transportation modes, grouped by major mode, are included in the NPTS data.

Private Vehicle

Automobile A privately owned and/or operated licensed motorized vehicle including cars and station wagons. Leased and rented cars are included if they are privately operated and not used for picking up passengers in return for fare.

Van A privately owned and/or operated van or minivan designed to carry 5 to 13 passengers, or to haul cargo.

Sport Utility Vehicle A privately owned and/or operated vehicle that is a hybrid of design elements from a van, a pickup truck and a station wagon. Examples include a Chevrolet Blazer, Ford Bronco, Jeep Cherokee, or Nissan Pathfinder.

Pickup Truck A pickup truck is a motorized vehicle, privately owned and/or operated, with an enclosed cab that usually accommodates 2-3 passengers, and an open cargo area in the rear. Pickup trucks usually have the same size of wheel-base as a full-size station wagon. This category also includes pickups with campers.

Other Truck This category consists of all trucks other than pickup trucks (i.e., dump trucks, trailer trucks, etc.).

RV or Motor Home An RV or motor home includes a self-powered recreational vehicle that is operated as a unit without being towed by another vehicle (e.g., a Winnebago motor home).

Motorcycle This category includes large, medium, and small motorcycles. Minibikes are excluded because they cannot be licensed for highway use.

Other POV A vehicle that cannot be classified into one of the categories above.

Public Transportation

Bus The bus category includes intercity buses, mass transit systems, and shuttle buses that are available to the general public. Also, Dial-A-Bus and Senior Citizen buses that are available to the public are included in this category. However, shuttle buses operated by a government agency or private industry for the convenience of employees, contracted or chartered buses, or school buses are excluded from this category.

Commuter Train This category includes commuter trains and passenger trains other than elevated rail trains and subways. Commuter Train also includes local and commuter train service. Amtrak intercity service is excluded from this category.

Streetcar/Trolley This category includes trolleys, streetcars, and cable cars.

Elevated Rail/Subway This category includes elevated railways and subway trains in a city.

Other Modes

Amtrak Amtrak is defined as the U.S. national passenger railroad service providing intercity train service. Amtrak intercity service is excluded from the commuter train data.

Airplane Airplanes include commercial airplanes and smaller planes that are available for use by the general public in exchange for a fare. Private planes and helicopters are included under "Other."

Taxi Taxis include the use of a taxicab by a driver for hire, or by a passenger for fare, and airport limousines. The taxi category does not include rental cars if they are privately operated and not picking up passengers in return for fare.

Bicycles This category includes bicycles of all speeds and sizes that do not have a motor.

Walk This category includes walking and jogging.

School Bus This category includes county school buses, private school buses, and buses chartered from private companies for the express purposes of carrying students to or from school and/or school-related activities.

Moped (Motorized Bicycle) This category includes motorized bicycles equipped with a small engine, typically characteristic of a two horsepower motor or less. Minibikes, dirt bikes, and trail bikes are excluded from this category. Note that a motorized bicycle may or may not be licensed for highway use.

Other Includes any types of transportation not previously listed, e.g. ferry boat.

Metropolitan Statistical Area (MSA)

Except in the New England States, a Metropolitan Statistical Area is a county or group of contiguous counties which contains at least one city of 50,000 inhabitants or more, or "twin cities" with a combined population of at least 50,000. In addition, contiguous counties are included in an MSA if, according to certain criteria, they are socially and economically integrated with the central city. In the New England States, MSA's consist of towns and cities instead of counties.

Motorized Vehicle

Motorized vehicles are all vehicles that are licensed for highway driving. Snow mobiles and minibikes are specifically excluded.

Occupancy

Occupancy is the number of persons, including driver and passenger(s) in a vehicle. NPTS occupancy rates are generally calculated as person miles divided by vehicle miles.

Origin

Origin is the starting point of a trip.

Overlap Trip

A travel period trip that occurs on travel day, and is thus collected in both portions of the NPTS questionnaire. To insure that this trip is not counted twice, eliminate overlap trips from travel day data when travel day and travel period data will be added together.

Passenger

For a specific trip, a passenger is any occupant of a motorized vehicle, other than the driver.

Person Miles of Travel (PMT)

PMT is a primary measure of person travel. When one person travels one mile, one person mile of travel results. Where 2 or more persons travel together in the same vehicle, each person makes the same number of person miles as the vehicle miles. Therefore, four persons traveling 5 miles in the same vehicle results in 20 person miles ($4 \times 5 = 20$).

Person Trip

A person trip is a trip by one or more persons in any mode of transportation. Each person is considered as making one person trip. For example, four persons traveling together in one auto are counted as four person trips.

POV

A privately-owned vehicle or privately-operated vehicle. Either way, the intent here is that this is not a vehicle available to the public for a fee, such as a bus, subway, taxi, etc.

Travel Day

A travel day is a 24-hour period from 4:00 a.m. to 3:59 a.m. designated as the reference period for studying trips and travel by members of a sampled household.

Travel Period

A travel period consists of 14 days. The travel period is the 13 day period which precedes the travel day, and includes the 14th day as the travel day for a sampled household.

Travel Day Trip

A travel day trip is defined as any time the respondent went from one address to another by private motor vehicle, public transportation, bicycle, walking, or other means. However, a separate trip is not counted in two instances:

- 1. When the sole purpose for the trip is to get to another vehicle or mode of transportation in order to continue to the destination.
- 2. Travel within a shopping center, mall or shopping areas of 4-5 blocks is to be considered as travel to one destination.

Travel Period Trip

A travel period trip is a roundtrip of 75 miles or more with the return home portion taking place during the 14-day travel period. The outgoing portion of this trip can take place at any time, but the return must be within the 14-day period. Note that a trip made to move the household to a new residence would be counted as a travel period trip, even though it is not a roundtrip.

Trip Purpose

A trip purpose is the main reason that motivates a trip. There are 17 trip purposes used in the 1995 NPTS. For travel day trips, if there is more than one reason, and the reasons do not involve different destinations, then only the main reason is chosen. If there are two or more reasons, and they each involve different destinations, then each reason is classified as a separate trip. For travel period trips, if there is more than one reason, the primary reason is collected.

For the 1995 survey, trip purposes were collected using a From-To approach. For each trip, the origin and destination are on the file in generic terms, e.g. from work to shopping.

Note that there are two major purpose categories, Family and Personal Business and Social and Recreational, that are used to group like purposes. The 17 trip reasons are defined as follows:

To or From Work Travel between home and a place where one

reports for work.

Work-Related Trips for the respondent's job or business, other than to or from the workplace. Examples: a plumber drives to a wholesale dealer to purchase supplies for his business, or a company executive travels from his office to another firm to attend a business meeting. Out-of-town business trips and professional conventions are included in this category.

Return to Work Returning to the workplace after leaving for some reason. Examples: returning to work from lunch, shopping, a meeting, etc.

FAMILY AND PERSONAL BUSINESS:

Shopping Trips to purchase commodities such as groceries, furniture, clothing, etc. for use or consumption elsewhere. This purpose also includes window-shopping and trip made to shop even if nothing is purchased.

Doctor/Dentist This category includes trips made for medical, dental, or psychiatric treatment, or other related professional services.

Take someone somewhere (Dropoff) Escorting someone else to their destination. Examples: taking a child to school or daycare, taking someone to a friend's house, a doctor's appointment, etc.

Pick up someone Escorting someone on the return from their trip destination. Examples: return from school or daycare, a friend's house, a doctor's appointment, etc.

Other Family or Personal Business This category includes the purchase of services such as dry cleaning, auto repair, haircuts, banking, legal services, etc.

School Trips to school, college or university classes, or attending school-related functions, such as PTA meetings, seminars, etc. Community meetings or activities that use the school building are not considered trips to school.

Religious Activities Trips to attend religious services or to participate in other religious activities. Social activities that take

place at a house of worship, but cannot be classified as religious, are not included in this category.

SOCIAL AND RECREATIONAL:

Visit Friends or Relatives Trips made primarily to visit friends or relatives.

Out to Eat Trips made to go to restaurants or other eating establishments, such as coffee shops, ice cream shops, bagel shops, etc. Note that trips made to purchase food for take-out are not included here, they are considered shopping trips.

Vacation This category is for trips reported by the respondent as their vacation.

Other Social or Recreational Trips taken to enjoy some form of social activity involving friends or acquaintances. This category includes trips for general entertainment or recreation (as an observer or a participant.) Examples: movies, video rentals, plays, parties, dancing, sporting events, sightseeing.

Return home - A trip made to go to the respondent's residence.

Other Trips that do not fit in any of the other trip purposes above.

For more on trip purpose coding and variables, see **Appendix M.**

Urbanized Area

An urbanized area consists of the built up area surrounding a central core (or central city), with a population density of at least 1,000 persons per square mile. Urbanized areas do not follow jurisdictional boundaries, thus it is common for the urbanized area boundary to divide a county.

For the 1995 NPTS, an approximate classification of sample households was based upon the population density of the Census block group containing the household. Households in block groups estimated to have at least 1,000 persons per square mile were classed as urban; those in block groups with less than 1,000 persons per square miles were classed as not urban.

Vehicle

In the 1995 NPTS, the term vehicle includes autos, passenger vans, sport utility vehicles, pickups and other light trucks, RV's, motorcycles and mopeds owned or available to the household. Note that in the 1969 NPTS, the term vehicle was limited to cars or passenger vans. Estimates show that in 1969 there were an additional 7.5 million pickups and other light trucks that are not reflected in the 1969 NPTS data.

Vehicle Miles of Travel (VMT)

VMT is a unit to measure vehicle travel made by a private vehicle, such as an automobile, van, pickup truck, or motorcycle. Each mile traveled is counted as one vehicle mile regardless of the number of persons in the vehicle.

Vehicle Occupancy

Vehicle occupancy is the number of persons, including driver and passenger(s) in a vehicle; also includes persons who did not complete a whole trip. NPTS occupancy rates are generally calculated as person miles divided by vehicle miles.

Vehicle Trip

A trip by a single privately-operated vehicle (POV) regardless of the number of persons in the vehicle.

Vehicle Type

For purposes of the 1995 NPTS, one of the following:

- 1. Automobile (including station wagon)
- 2. Van
- 3. Sport Utility Vehicle
- 4. Pickup Truck (including pickup with camper)
- 5. Other Truck
- 6. RV or Motor Home
- 7. Motorcycle
- 8. Other

See "Means of Transportation" for definitions of these vehicle types. For NPTS, vehicle types are limited to privately operated vehicles (POV) because other vehicles that the respondent may have rode in (e.g., bus) were not tracked throughout the day, as was the case with household vehicles.

Worker

See "Employed".

| PPENDIX E 995 NPTS QUESTIONNAIRE | |
|---|-----|
| | |
| | |
| 29/97 This copy of the questionnaire has been annotated with the variable names in bold anclosed in brackets, e.g. {VARIABLE}. | and |
| | |
| | |

SECTION A - TELEPHONE NUMBER SCREENING

NOTE: THROUGHOUT SECTION A, A NOTE WILL BE DISPLAYED IN THE TOP RIGHT CORNER OF EVERY SCREEN INDICATING WHETHER OR NOT AN ADVANCE LETTER WAS SENT TO THE CASE. THE MESSAGE WILL BE "LETTER SENT" OR "NO LETTER."



1

2

YES

NO → GO TO QUESTION 11

| . 1111 | WESSAGE WILL BE LETTER SENT OR NO LETTER. |
|--------|--|
| 1. | Hello, this is, calling on behalf of the U.S. Department of Transportation. Have reached (NUMBER)? |
| | 1 YES → GO TO QUESTION 3 2 NO 3 LANGUAGE BARRIER → GO TO QUESTION 11 -1 DK → GO TO QUESTION 3 -2 RE → GO TO QUESTION 3 |
| 2. | What number have I reached? |
| | NUMBER: ¬ THANK RESPONDENT; HANG UP |
| | -1 DK -2 RE |
| | CATI CHECK: IS THIS THE SECOND TIME THIS SAME WRONG NUMBER HAS BEEN REACHED? |
| | YES → SET OUTCOME=30 (NONWORKING NUMBER) NO → RETURN TO DIAL SCREEN FOR INTERVIEWER TO DIAL AGAIN. |
| 3. | We are conducting an important study on transportation in the U.S. We are calling a random sample of telephone numbers, and I need to know if this is a home, a business, or something else? |
| | 1 HOME - GO TO QUESTION 6 2 BUSINESS/INSTITUTION 3 OTHER |
| 4. | Does anyone live there on the premises? |

| 5. Is this the number they use as their home phone? | | the number they use as their home phone? |
|---|---------|--|
| | 1 | YES |
| | 2 | NO → GO TO QUESTION 11 |
| | -1 | DK |
| | -2 | RE |
| 6. | Does t | his telephone number serve only (your/one) household or more than one household? |
| | 1 | SERVES ONE HOUSEHOLD - GO TO QUESTION 8 |
| | 2 | SERVES MORE THAN ONE HOUSEHOLD |
| | -1 | DK → GO TO QUESTION 8 |
| | -2 | RE → GO TO QUESTION 8 |
| 7. | Can yo | ou tell me the total number of households served by this telephone number? |
| | {TEL_ | _HHS} |
| | NUMI | BER OF HOUSEHOLDS SERVED: |
| | -1 | DK |
| | -2 | RE |
| Now, | I would | like to talk about your household only. |
| 8. | Do ten | or more persons currently live in this household? |
| | 1 | YES |
| | 2 | NO → GO TO QUESTION 10 |
| | -1 | DK → GO TO QUESTION 10 |
| | -2 | RE → GO TO QUESTION 10 |
| 9. | Are an | y of these persons related to each other? |
| | 1 | YES |
| | 2 | NO → GO TO QUESTION 11 |
| | | |
| | | |

5.



10. CATI: SET SCREENING LEVEL STATUS CODE=50.

For the rest of the questions, I need to speak to a member of the household who is at least 18 years old.

Are you a member of this household and at least 18 years old?

- 1 YES GO TO HOUSEHOLD QUESTIONNAIRE {HHRESP}
- 2 NO ASK TO SPEAK TO A MEMBER 18+; IF NONE AVAILABLE, MAKE ARRANGEMENTS FOR CALLBACK. WHEN AVAILABLE, CONTINUE WITH HOUSEHOLD QUESTIONNAIRE.
- 3 NO ONE 18 OR OLDER LIVES HERE GO TO HOUSEHOLD QUESTIONNAIRE
- 4 NO ADULT RESIDENT SPEAKS ENGLISH → GO TO QUESTION 11
- 11. That is all the questions I have. Thank you very much for your help.

CATI: SET OUTCOME AND STATUS CODES AND EXIT CASE

SECTION B - VEHICLE DATA - (HOUSEHOLD RESPONDENT)

(Hello, this is ______calling on behalf of the U.S. Department of Transportation.) We are conducting the Nationwide Personal Transportation Survey. The results will be used for future planning of roads and other transportation needs. This interview will take about 8 minutes. Your participation is voluntary, and we can skip any question you choose not to answer.

(IF ASKED: The study has been authorized by Title 23, United States Code. The OMB clearance number is 2125-0545, expiration June 30, 1996.)



First, I would like to ask you some questions about motor vehicles owned or used by the household. Please do <u>not</u> include the vehicle of anyone visiting or staying with you if they usually live somewhere else, such as a college student away at school.

| 1. | How many licensed vehicles were owned, or available for regular use by members of your |
|----|--|
| | household during the past two weeks? |

NUMBER OF VEHICLES - IF NONE, GO TO NEXT SECTION

(INCLUDE LEASED OR COMPANY-OWNED LICENSED MOTORIZED VEHICLES IF THEY ARE USED BY HOUSEHOLD MEMBERS ON A REGULAR BASIS.)

IF MORE THAN ONE, SAY: I have a few questions about each of these vehicles. Let's start with the newest one.

2. What are the make, model and year (of the newest one/of the next newest vehicle)?

{MAKECODE, MODLCODE, VEHYEAR}

NOTE: AN ON-LINE LOOK-UP TABLE IS USED. INTERVIEWER SELECTS MAKE AND THEN SELECTS MODEL AND YEAR FROM DISPLAYED LIST.

3. IF VEHICLE TYPE IS IN LOOKUP TABLE, CATI WILL CODE QUESTION 3 AUTOMATICALLY AND GO TO QUESTION 4.

What type vehicle is it? (READ CHOICES AS NECESSARY.)

{VEHTYPE}

01 AUTOMOBILE

05 OTHER TRUCK

| Section | B (cont | inued) | | | |
|---------|---------|--|--------------|--------|---------------|
| | 02 | VAN (MINI, CARGO, PASSENGER) | | 06 | RV |
| (RECF | REATIO | ONAL | | | |
| | 03 | UTILITY VEHICLE (BRONCO, BLAZ | ZER, | | VEHICLE) |
| | | 4RUNNER, PATHFINDER, ETC.) | | 07 | MOTORCYCLE |
| | 04 | PICKUP TRUCK | 08 | OTH | ER → SPECIFY: |
| 4. | J | u get the vehicle in the past 12 months (that 12MNT) | it is, since | e (MON | VTH/YEAR))? |
| | 1 2 | YES NO → GO TO QUESTION 6 | | | |
| 5. | In wha | at month and year? | | | |

{PURCHMON, PURCHYR}

MONTH ____ YEAR ____

CATI EDIT CHECK: VERIFY THAT DATE GIVEN IS WITHIN THE PAST 12 MONTHS BUT EQUAL TO OR EARLIER THAN TODAY'S MONTH/YEAR.

6. Was it new or used when you got it?

{VEHNEW}

- 1 NEW
- 2 USED

(CODE DEMONSTRATORS, PROGRAM CARS, OR EXECUTIVE CARS AS NEW.)

CATI EDIT CHECK: IF VEHICLE PURCHASED NEW IN PAST 12 MONTHS [Q4=YES AND Q6=NEW], VERIFY THAT MODEL YEAR IS 94, 95, OR 96.

7. About how many miles was this vehicle driven [during the last 12 months/since (MONTH/YEAR BOUGHT OR RECEIVED)]? Include mileage driven by all drivers.

| {VEHMILE | S, | ANNMILES |
|----------|-----|----------|
| N | 1IL | ES |

CATI: IF VEHICLE ACQUIRED IN PAST 12 MONTHS, CONVERT MILES REPORTED TO ANNUALIZED MILEAGE. [CALCULATE NUMBER OF DAYS BETWEEN TODAY'S DATE AND FIRST DAY OF MONTH/YEAR REPORTED IN Q5. DIVIDE 365 BY THIS NUMBER AND MULTIPLY BY MILEAGE REPORTED IN Q7.]

IF ANNUALIZED MILEAGE > 40,000, CATI WILL PROMPT INTERVIEWER TO VERIFY WITH R.

RETURN TO QUESTION 2 AND OBTAIN INFORMATION ON THE NEXT VEHICLE UNTIL INFORMATION HAS BEEN OBTAINED FOR ALL HOUSEHOLD VEHICLES.

8. I have listed...

[CATI WILL DISPLAY VEHICLES BY MAKE/MODEL/YEAR].

Are these all the vehicles that were in working condition and available to your household in the past 2 weeks?

- 1 CORRECT → GO TO NEXT SECTION
- 2 INCORRECT → MAKE CORRECTIONS AS NEEDED

SECTION C - HOME AND NEIGHBORHOOD - (HOUSEHOLD RESPONDENT)



1. Is local bus service available in your town or city?

{BUS_AVL}

- 1 YES
- 2 NO GO TO QUESTION 6

(INCLUDE ONLY SERVICES THAT ARE AVAILABLE FOR USE BY THE GENERAL PUBLIC FOR LOCAL OR COMMUTER TRAVEL, INCLUDING DIALA-BUS AND SENIOR CITIZEN BUS SERVICE. DO NOT INCLUDE LONG DISTANCE BUSES OR THOSE CHARTERED FOR SPECIFIC TRIPS.)

2. How far is it from your home to the nearest bus stop?

{BUS_DIST, BUSBLOCK, BUSMILE}

_____ BLOCKS OR ____ MILES

996 = LESS THAN 1 BLOCK

997 = 1/2 MILE

3. Is subway, commuter train, or streetcar service available in your town or city?

{OTHERPTR}

- 1 YES
- 2 NO GO TO QUESTION 6

(INCLUDE ONLY SERVICES THAT ARE AVAILABLE FOR USE BY THE GENERAL PUBLIC FOR LOCAL OR COMMUTER TRAVEL, INCLUDING ELEVATED TRAINS. DO NOT INCLUDE LONG DISTANCE SERVICES OR THOSE CHARTERED FOR SPECIFIC TRIPS.)

4. (Which of these are available?) (CODE ALL THAT APPLY.)

{SUB_AVL, TRN_AVL, STC_AVL}

- 1 SUBWAY
- 2 COMMUTER TRAIN
- 3 STREETCAR

| 5. | REPEAT QUESTION 5 FOR EACH SERVICE MENTIONED IN QUESTION 4. |
|-----|--|
| | How far is it from your home to the nearest (subway/commuter train/streetcar) stop? |
| STC | {SUB_DIST, SUBBLOCK, SUBMILE, TRN_DIST, TRNBLOCK, TRMILE, C_DIST, STCBLOCK, STCMILE} |
| | BLOCKS OR MILES |
| | 996 = LESS THAN 1 BLOCK 997 = 1/2 MILE |
| 6. | Do you live in a |
| | {HOMETYPE} |
| | Single house (detached), Duplex, Rowhouse or townhouse, Apartment, Mobile home or trailer? OTHER - SPECIFY: (CODE CONDOMINIUMS INTO APPROPRIATE CATEGORY BASED ON TYPE OF STRUCTURE. CODE DOUBLE TOWNHOUSE AS DUPLEX.) |
| | CHECK ITEM: DOES R LIVE IN APARTMENT? [DOES Q6=4?] |
| | 1 YES 2 NO → GO TO QUESTION 8 |
| 7. | Is your apartment in a building with |
| | {HSTORIES} |
| | 1 5 or more stories, or 2 less than 5 stories? |

8. Is your home owned or rented?

{HOMEOWN}

- 1 OWNED
- 2 RENTED
- 3 PROVIDED BY JOB OR MILITARY
- 4 OTHER → SPECIFY: _____

(IF HOME IS NOT OWNED OUTRIGHT, BUT UNDER MORTGAGE, CODE "OWNED."

IF R RENTS BUT SOMEONE WHO LIVES IN THE HOME OWNS IT, CODE "OWNED.")

SECTION D - PERSON DATA FOR EACH HOUSEHOLD MEMBER (ROSTER) - (HOUSEHOLD RESPONDENT)



Now I would like to ask you a couple of questions about each person in your household.

| 110111 | would like to ask you a couple of questions about each person in your nousehold. |
|--------|--|
| 1. | How many people live in your household? Please do <u>not</u> include anyone who usually lives somewhere else or is just visiting, such as a college student away at school. (Please include anyone living or staying there now, and anyone who usually lives there but is now away from home such as traveling, or in the hospital.) |
| | TOTAL NUMBER: |
| 2. | What is the first name of (the household member, or one of the members, who (owns/rents) the home/the next person who lives there)? (IF ASKED: We are not collecting last names for this survey, only first names. If you prefer, we can use initials if everyone in your home has different initials.) |
| | NAME OF (REFERENCE/NEXT) PERSON: |
| 3. | How old is (PERSON)? |
| | {R_AGE, REF_AGE, P1_AGE through P10_AGE} |
| | AGE: |
| 4. | ASK IF NOT APPARENT: |
| | Is (PERSON) male or female? |
| | {R_SEX, REF_SEX, P1_SEX through P10_SEX, HH_0TO4} |
| | 1 MALE 2 FEMALE |
| 5. | ASK ONLY FOR REFERENCE PERSON: |
| | Is (PERSON) Hispanic? |
| | {HH_HISP} |
| | 1 YES 2 NO |

6. ASK ONLY FOR REFERENCE PERSON:

Is (he/she)...

{HH_RACE}

- 1 White
- 2 African American (Black),
- 3 Asian, or
- 4 some other race?

(ASIAN INCLUDES PACIFIC ISLANDERS SUCH AS HAWAIIANS AND FILIPPINOS.)

7. FOR REFERENCE PERSON, CATI WILL CODE "1" AND GO TO NEXT CHECK ITEM.

What is (PERSON)'s relationship to (REFERENCE PERSON)?

{R_RELAT, P1_REL through P10_REL}

ENTER CODE FOR RELATIONSHIP <u>TO REFERENCE PERSON</u>; FOR EXAMPLE IF REFERENCE PERSON SAYS: I'm his mother", ENTER "3", NOT "4".

- 1 REFERENCE PERSON (NAME)
- 2 SPOUSE OF (NAME)
- 3 CHILD OF (NAME)
- 4 PARENT OF (NAME)
- 5 BROTHER/SISTER OF (NAME)
- 6 OTHER RELATIVE OF (NAME)
- 7 UNMARRIED PARTNER OF (NAME)
- 8 NON-RELATIVE OF (NAME)

CATI EDIT CHECK: IF THIS PERSON IS CHILD OF REFERENCE PERSON [Q7=3], VERIFY THAT AGE IS LESS THAN REFERENCE PERSON'S AGE. IF THIS PERSON IS PARENT OF REFERENCE PERSON [Q7=4], VERIFY THAT AGE IS GREATER THAN REFERENCE PERSON'S AGE. MAKE SURE THAN NOT MORE THAN ONE SPOUSE IS CODED.

CHECK ITEM: ARE THERE MORE PERSONS TO BE ASKED ABOUT?

- 1 YES → RETURN TO QUESTION 2
- 2 NO

| Section D | (continued) |
|-----------|-------------|
|-----------|-------------|

8. I have listed...

[CATI WILL DISPLAY ALL ROSTER INFORMATION FOR ALL PERSONS, INCLUDING NAME, AGE, GENDER, AND RELATIONSHIP TO REFERENCE PERSON.]

Is this correct?

- 1 YES
- 2 NO MAKE CORRECTIONS AS NECESSARY. IF MORE THAN ONE PERSON OF DRIVING AGE IN THE HOUSEHOLD, GO TO QUESTION 11.
- 9. Are you a driver?

{DRIVER, REF_DRVR}

- 1 YES
- 2 NO
- 10. Do you have a job?

{WORKER, REF_WKR}

- 1 YES
- 2 NO

(HAVING A JOB MEANS WORKING FOR PAY OR PROFIT.)

GO TO QUESTION 13

11. Which of the persons you have listed are drivers?

{DRVRCNT, P1_DRVR through P10_DRVR}

ENTER ROSTER NUMBER(S):

(CODE ALL DRIVERS MENTIONED, WHETHER LICENSED OR NOT.)

12. Which of the persons work at a job?

{WKRCOUNT, P1_WKR through P10_WKR}

| Section | D (continued) |
|---------|--|
| | ENTER ROSTER NUMBER(S): |
| | (HAVING A JOB MEANS WORKING FOR PAY OR PROFIT.) |
| 13. | IF THIS IS A SINGLE PERSON HOUSEHOLD, CATI WILL CODE QUESTION 13 AUTOMATICALLY AND GO TO QUESTION 14. |
| | ASK IF NOT APPARENT: |
| | And with whom am I speaking now? |
| | {HHRESP} ENTER ROSTER NUMBER: |
| 14. | CATI: SET HOUSEHOLD LEVEL STATUS CODE=50 AND DETERMINE TRAVEL DAY. |
| | IF NO VEHICLES OR NO DRIVERS IN HOUSEHOLD, CATI WILL SKIP TO QUESTION 16. IF SINGLE-PERSON HOUSEHOLD, CATI WILL CODE "1" FOR QUESTIONS 14 AND 15 FOR ALL VEHICLES AND GO TO QUESTION 15. |
| | ASK QUESTIONS 14 AND 15 FOR EACH HOUSEHOLD VEHICLE. |
| | (Now, about the household vehicle(s) you told me about earlier), Does one household member drive the (VEHICLE) most of the time? |
| | {MAINDRVR} |
| | 1 YES 2 NO - ASK ABOUT NEXT VEHICLE |
| 15. | (Who is that?) |
| | {WHOMAIN} |
| | ENTER ROSTER NUMBER: |
| | CATI EDIT CHECK: VERIFY THAT PERSON IS OF DRIVING AGE AND IS A DRIVER. |

16. To better understand people's travel patterns, we would like to mail a one-day diary to (you/each person in your household who is 5 or older). We ask you to record each trip you make on DAY, DATE. (We/Along with each diary, we) will send 2 dollars in appreciation for the time it takes to complete. Then after (DATE), we will call you back to collect the information.

CHECK ITEM: IS HOUSEHOLD ADDRESS KNOWN?

- 1 YES
- 2 NO → GO TO QUESTION 18
- 17. In order to mail the (diary/diaries) to you, I need to verify that your address is:

(ADDRESS) (CITY, STATE) (ZIP CODE)

- 1 CORRECT → GO TO QUESTION 19
- 2 INCORRECT

INTERVIEWER: WHICH DO YOU NEED TO MODIFY?

- 1 STREET ADDRESS → ENTER CORRECT ADDRESS
- 2 CITY → ENTER CORRECT CITY
- 3 STATE → ENTER CORRECT STATE
- 4 ZIP CODE → ENTER CORRECT ZIP CODE
- 5 ALL CORRECT GO TO QUESTION 19
- 18. In order to mail the (diary/diaries) to you, would you please tell me your mailing address?

| STREET ADDRESS | | |
|----------------|-------|--|
| CITY | STATE | |
| ZIP CODE | | |

- 19. INTERVIEWER: HAS THE RESPONDENT AGREED TO COMPLETE THE DIARY AND PROVIDED MAILING ADDRESS?
 - 1 YES
 - 2 NO Thank you very much for your time. EXIT CASE.
- 20. To whom should we address the envelope?

| Sectio | n D (co | ontinued) |
|--------|---------|--|
| 21. | INT | ERVIEWER: DID THE RESPONDENT GIVE A HOME OR WORK ADDRESS? |
| | 1 | HOMESTREET ADDRESS |
| | 2 | HOMEPO BOX OR RR |
| | 3 | WORK/OTHER |
| | 4 | DON'T KNOW |
| | | DON'T KNOW ECK ITEM: ARE THERE CHILDREN AGED 5-13 IN THE HOUSEHOLD? |

- EHOLD?
 - 1 YES
 - NO → GO TO QUESTION 23 2
- 22. When we call back to collect the data, household members 14 and older will be asked to answer questions for themselves; however, someone else will need to answer for younger household members. Who would be the best person to give the information about them?

| ENTER ROS | TER NUMBER | |
|-----------|------------|--|
| | | |
| | | |
| | | |

We will mail the (diary/diaries) to you in a few days and will call you again after 23. (TRAVEL DATE). Thank you for your time.

EXIT CASE



SECTION E - DRIVER INFORMATION AND CUSTOMER EVALUATION

(HOUSEHOLD MEMBERS 16 YEARS OR OLDER; PROXY PERMITTED)

CHECK ITEM 1: IS THIS A PROXY INTERVIEW?

- 1 YES GO TO CHECK ITEM 2
- 2 NO
- 1. I'm going to read some difficulties people sometimes have when traveling. Thinking about your <u>day-to-day</u> travel, please tell me whether each of these is a large problem, a small problem, or no problem at all for you.

BASED UPON THE PREASSIGNED RANDOM INDICATOR, CATI WILL ADMINISTER THE APPROPRIATE SUBSET OF ITEMS FOR QUESTION 6. IF INDICATOR=1, FIRST BLOCK WILL BE ADMINISTERED. IF INDICATOR=2, THE SECOND BLOCK WILL BE ADMINISTERED. IF INDICATOR=3, THE THIRD BLOCK WILL BE ADMINISTERED.

| BLOCK 1 | LG | S | M | NO |
|--|---|-------------|---|-------------|
| A Highway congestionB Rough pavement on highwaysC Being worried about getting lost in areas or neig | | 3 | | |
| you're not familiar with D Being worried about traffic accidents E Poor walkways or sidewalks | {DTNTFMLF {DTACDT} {DTWALK} | 1 | 2 | 3 |
| BLOCK 2 | | | | |
| F Highway congestion G Air pollution caused by cars, trucks, and buses H Not knowing about traffic tie-ups or road constr I Rough pavement on neighborhood streets J Being worried about crime against motorists | | 1 1 3 | 2 | 3 3 3 |
| BLOCK 3 | | | | |
| K Highway congestionL Rough pavement on highways | { DTCONJ } { DTPAVE } 1 2 | | 2 | 3 |
| M Rough pavement on neighborhood streets | {DTSTRTS} | 1 | 2 | 3 |
| N Air pollution caused by cars, trucks, and buses | {DTPOLLTN} | 1 | 2 | 3 |

O Not knowing about traffic tie-ups or road construction {**DTTIEUP**} 1 2 3

CHECK ITEM 2: WAS PUBLIC TRANSPORTATION REPORTED AS AVAILABLE TO THE HOUSEHOLD? [DOES QUESTION C1=1]

- 1 YES
- 2 NO GO TO QUESTION 4
- 2. In the past two months, about how often (have you/has PERSON) used public transportation such as buses, subways, streetcars, or commuter trains?

{PTUSED}

- 1 TWO OR MORE DAYS A WEEK (11+ TIMES)
- 2 ABOUT ONCE A WEEK (5-10 TIMES)
- 3 ONCE OR TWICE A MONTH (2-4 TIMES)
- 4 LESS THAN ONCE A MONTH (ONE TIME)
- 5 NEVER
- 6 NOT AVAILABLE

(DO NOT INCLUDE TAXIS. DO INCLUDE FERRIES.)

CHECK ITEM 3: IS THIS A PROXY INTERVIEW?

- 1 YES → GO TO QUESTION 4
- 2 NO

CHECK ITEM 4: DOES R USE PUBLIC TRANSPORTATION REGULARLY? [DOES Q2 = 1, 2, OR 3]?

- 1 YES
- 2 NO GO TO QUESTION 4
- 3. Thinking about your use of public transportation, please tell me whether each of these is a large problem, a small problem, or no problem at all for you.

BASED UPON THE PREASSIGNED RANDOM INDICATOR, CATI WILL ADMINISTER THE APPROPRIATE SUBSET OF ITEMS FOR QUESTION 8. IF INDICATOR=1, FIRST BLOCK WILL BE ADMINISTERED. IF INDICATOR=2, THE SECOND BLOCK WILL BE ADMINISTERED.

LG SM NO

BLOCK 1

A Crowding or difficulty getting a seat

{PTCROWD}

1 2

3

4.

5.

| B The time i | t takes to use public transportat | tion {PTTIM | - |
|---|---|------------------------|----------------------|
| D Public tran E The difficu | rried about crime nsportation stations and vehicle ulty of transfering between buse t vehicles | s not being clean{PTNT | |
| BLOCK 2 | | | |
| F Crowding | or difficulty getting a seat | { PTCR (3 | OWD } 1 2 |
| | of using public transportation nsportation being available at the | {PTCOST} 1 | 2 3 |
| | leed it | { PTTMND } 1 | 2 3 |
| • | cess to a car when you need it | {PTCARND} 1 | |
| _ | takes to use public transportation | | |
| 2 Most3 Some | ys, ¬ GO TO CHECK ITEM 5 of the time, etimes, or r? ¬ GO TO CHECK ITEM 5 | | |
| What are the ALL THAT | typical situations when (you do | PERSON does) not we | ar seat belts? (CODE |
| | , | | SEE ALSO: |
| 1 WHE | N FORGET | {NSBFGET} | |
| 2 WHE | N BROKEN/UNAVAILABLE | {NSBBROKE} | |
| 3 SHO | RT TRIPS | {NSBSHORT} | |
| {NSB | SHURRY} | | |
| • | G TRIPS | {NSBLONG} | |
| {NSE | BMED} | - | |
| • | ACK SEAT | {NSBBACK} | {NSBNLIKE} |
| 6 WHE | N PASSENGER | {NSBPSNG} | , |
| - · · · · · · · · · · · · · · · · · · · | SNOASK} | | |
| • | N DRIVER | {NSBDRVR} | {NSBPOLIC} |

| Section E | (continued) |
|-----------|-------------|
|-----------|-------------|

| | 8 | WHEN IN A CERTAIN {NSBSPCLH} | VEHICLE (E.G. PICKUP){ NSBSPV | EH} |
|----|--------------|---|--|-------------------|
| | 9 | IN TOWN/CITY {NSBSPPER} | {NSBTOWN} | |
| | 11 | | {NSBOTHER} | |
| | | {NSDIOWKK} | | {NSBWTHR} |
| | CHE | CK ITEM 5: WAS R LIST | TED AS DRIVER IN HOUSEHOLD F | ROSTER? |
| | | 1 YES 2 NO → GO TO QU | UESTION 7 | |
| 6. | | HIS IS A SINGLE-PERSO STION 6 AND GO TO QU | N HOUSEHOLD CATI WILL CODE JESTION 8. | "1" FOR |
| | Just t | to verify, (you are/PERSON | N is) a driver, is that correct? | |
| | | {DRIVER} | | |
| | 1 2 | INCORRECT, R DOES | → GO TO QUESTION 8 NOT DRIVE → CORRECT DRIVER R AND GO TO CHECK ITEM 6 | FLAG ON |
| 7. | | HIS IS A SINGLE-PERSO STION 7 AND GO TO CH | N HOUSEHOLD CATI WILL CODE HECK ITEM 6 | "1" FOR |
| | (You | are not/PERSON is not) a | driver, is that correct? | |
| | 1 2 | INCORRECT, R DOES | OT DRIVE → GO TO CHECK ITEM (DRIVE → CORRECT DRIVER FLAC R AND GO TO QUESTION 8 | |
| 8. | | nt how many miles did (you, ensed motorized vehicles? | /PERSON) personally drive during the | past 12 months in |
| | {YE A | ARMILE} | | |
| | (INC | LUDE MILES DRIVEN A | AS A PART OF WORK.) | |
| | | MILES | | |
| | | | E- 21 | |

[IF RESPONSE > 40,000 MILES, CATI WILL PROMPT INTERVIEWER TO VERIFY WITH R.]

CHECK ITEM 6: IS THIS A PROXY INTERVIEW?

- 1 YES → GO TO NEXT SECTION
- 2 NO

CHECK ITEM 7: WAS R DESIGNATED AS THE PRIMARY DRIVER FOR ANY HOUSEHOLD VEHICLES?

- 1 YES
- 2 NO → GO TO NEXT SECTION

CHECK ITEM 8: IS THIS THE HOUSEHOLD RESPONDENT?

- 1 YES → GO TO NEXT SECTION
- 2 NO

9. ASK THIS QUESTION FOR EACH VEHICLE FOR WHICH R IS PRIMARY DRIVER.

I understand that you are the person who drives the (VEHICLE) most.

About how many miles was the (VEHICLE) driven (during the last 12 months/since MONTH/YEAR BOUGHT OR RECEIVED)? Include mileage driven by you and all other drivers.

| {VEHMILES} | |
|-------------------|-------|
| | MILES |

CATI: IF VEHICLE ACQUIRED IN PAST 12 MONTHS, CONVERT MILES REPORTED TO ANNUALIZED MILEAGE. [CALCULATE NUMBER OF DAYS BETWEEN TODAY'S DATE AND FIRST DAY OF MONTH/YEAR REPORTED IN B6. DIVIDE 365 BY THIS NUMBER AND MULTIPLY BY MILEAGE REPORTED IN Q14.]

IF ANNUALIZED MILEAGE > 40,000, CATI WILL PROMPT INTERVIEWER TO VERIFY WITH R.

SECTION F - EDUCATION AND TRAVEL TO WORK - (HOUSEHOLD MEMBERS 16 YEARS OR OLDER; PROXY PERMITTED)



1. What is the highest grade or year of school (you have/PERSON has) <u>completed</u>? READ CHOICES AS NECESSARY.

{EDUC}

- 11 LESS THAN HIGH SCHOOL GRADUATE
- 12 HIGH SCHOOL GRADUATE, INCLUDING EQUIVALENT SUCH AS GED
- 21 SOME COLLEGE, BUT NOT A COLLEGE GRADUATE
- 22 ASSOCIATE DEGREE IN COLLEGE (FOR EXAMPLE, AA)
- 24 BACHELOR'S DEGREE (FOR EXAMPLE, BA, AB, BS)
- 25 SOME GRADUATE OR PROFESSIONAL SCHOOL, BUT NO DEGREE
- 26 GRADUATE OR PROFESSIONAL SCHOOL DEGREE (FOR EXAMPLE, MA, MS, MBA, MD, DDS, PHD, EdD, JD)

CATI EDIT CHECK: IF RESPONSE IS CODE 22, VERIFY THAT AGE IS 18 OR OLDER. IF RESPONSE IS CODE 24 OR CODE 25, VERIFY THAT AGE IS 20 OR OLDER. IF RESPONSE IS CODE 26, VERIFY THAT AGE IS 22 OR OLDER.

2. (Do you/Does PERSON) have a job full time, part time or not at all?

{WORKER, JOBLSTWK}

- 1 FULL TIME
- 2 PART TIME
- 3 NOT AT ALL GO TO NEXT SECTION
- 4 RETIRED → GO TO NEXT SECTION

(IF ASKED, FULL TIME IS 35 OR MORE HOURS A WEEK. DO NOT INCLUDE VOLUNTEER WORK.

IF "SELF-EMPLOYED" PROBE FOR NUMBER OF HOURS R USUALLY WORKS AND CODE INTO APPROPRIATE CATEGORY.)

3. (Do you/Does PERSON) have more than one job?

{GT1JBLWK}

1 YES → The next question are about (you/PERSON's) primary job or occupation.

-3

(IF R CAN'T DECIDE WHICH JOB IS PRIMARY, USE THE ONE AT WHICH HE/SHE USUALLY WORKS THE MOST HOURS.)

| | 2 NO |
|----|--|
| 4. | What is the street address of (your/PERSON's) workplace? |
| | STREET NUMBER STREET NAME |
| | FIRST ROAD SECOND ROAD |
| | SECOND ROAD STATE |
| | ZIP CODE |
| | DO NOT ENTER POST OFFICE BOX! |
| | (IF R WORKS AT OR OUT OF HOME, ENTER "HOME" FOR STREET NUMBER. IF R HAS NO FIXED WORKPLACE, ENTER "NONE" FOR STREET NUMBER.) |
| | IF NEEDED: It is important that we get at least a general location of (your/PERSON's) workplace. Would you please identify the intersection of roads which is closest to (your/his/her) workplace? |
| | IF NEEDED: We are not going to contact you there, we just want to know the location of your workplace. |
| | NOTE: IF R PROVIDES STREET NUMBER AND STREET NAME, FIELDS FOR ROAD INTERSECTION WILL BE SKIPPED. IF EITHER STREET NUMBER OR NAME IS MISSING, INTERSECTION DATA WILL BE OBTAINED. |
| | IF STREET NUMBER = "HOME" OR "NONE," GO TO NEXT SECTION. CATI EDIT CHECK: VERIFY THAT STATE ABBREVIATION AND ZIP CODE ARE LEGAL VALUES. |
| 5. | What is the one-way distance from (your/PERSON's) home to (your/his/her) workplace? |
| | {DISTTOWK} |
| | BLOCKS OR MILES |
| | 996 = LESS THAN 1 BLOCK 997 = 1/2 MILE |

NO FIXED WORKPLACE - GO TO NEXT SECTION

- -4 WORKS AT OR OUT OF HOME → GO TO NEXT SECTION
- 6. What time (do you/does PERSON) usually leave home to go to work?

{TIMELEAV}

| 7 | TT | | 4: 4 | | 4-1 | (/DEDCOM | 140 | £ 1 | | 1-9 |
|----|----------|---------|--------|--------|------|--------------|---------|----------|---------|-------|
| 1. | HOW Many | immutes | aoes n | usuanv | take | (you/PERSON) |) to ge | ı irom i | nome to | WOIK! |

| {TIMETO | WK} |
|---------|---------|
| | MINITES |

(DO NOT INCLUDE TIME TAKEN TO DROP OFF CHILDREN OR MAKE OTHER STOPS. PROBE FOR TIME IT WOULD TAKE TO GO STRAIGHT FROM HOME TO WORK.)

CATI EDIT CHECK: IF RESPONSE IS 60 MINUTES OR GREATER, CATI WILL PROMPT INTERVIEWER TO VERIFY WITH R.

8. How (do you/does PERSON) usually get to work? Please tell me <u>all</u> the kinds of transportation (you/he/she) usually (use/uses). (CODE ALL THAT APPLY.)

| 01 | AUTOMOBILE | {WKBYAUTO} |
|----|---------------------------------|-------------------|
| 02 | VAN (MINI, CARGO, PASSENGER) | {WKBYVAN} |
| 03 | UTILITY VEHICLE (BRONCO, BLAZER | |
| | 4RUNNER, PATHFINDER, ETC.) | {WKBYUV} |
| 04 | PICKUP TRUCK | {WKBYTRUK} |
| 05 | OTHER TRUCK | {WKBYOTTK} |
| 06 | RV (RECREATIONAL VEHICLE) | {WKBYRV} |
| 07 | MOTORCYCLE | {WKBYMCYC} |
| 08 | OTHER P.O.V. → SPECIFY | |
| | | {WKBYOPOV} |
| 09 | BUS | {WKBYBUS} |
| 10 | AMTRAK | {WKBYAMTR} |
| 11 | COMMUTER TRAIN | {WKBYTRAN} |
| 12 | STREETCAR/TROLLEY | {WKBYSTCR} |
| 13 | SUBWAY/ELEVATED RAIL | {WKBYSBWY} |
| 14 | AIRPLANE | {WKBYAIR} |
| 15 | TAXICAB | {WKBYTAXI} |
| 16 | BICYCLE | {WKBYBIKE} |
| 17 | WALK | {WKBYWALK} |
| 18 | SCHOOL BUS | {WKBYSCBS} |
| 19 | WORKED FROM HOME/ | |
| | TELECOMMUTED | {WKBYHOME} |
| 20 | OTHER → SPECIFY: | |
| | | {WKBYOTHR} |

CHECK ITEM: IS MORE THAN ONE ANSWER ENTERED IN QUESTION 8?

- 1 YES GO TO QUESTION 9
- 2 NO

CATI EDIT CHECK: VERIFY THAT MILES PER HOUR FOR QUESTION 8 IS WITHIN ACCEPTABLE RANGE BASED ON DISTANCE, TIME, AND MODE.

| MODE IN Q8 | VALID MPH RANGE |
|---------------------|------------------------|
| 01 - 09, 15, 18, 19 | 10-90 |
| 10-13 | 20-100 |
| 14 | 80-600 |
| 16 | 1-20 |
| 17 | 1-10 |

GO TO NEXT CHECK ITEM

9. What is the main means of transportation (you/PERSON) usually use to get to work--that is, the one used for most of the distance?

{WRKTRANS}

| 01 | AUTOMOBILE | 09 | BUS |
|----|---------------------------------|----|-------------------|
| 02 | VAN (MINI, CARGO, PASSENGER) | | 10 AMTRAK |
| 03 | UTILITY VEHICLE (BRONCO, BLAZER | 11 | COMMUTER TRAIN |
| | 4RUNNER, PATHFINDER, ETC.) | 12 | STREETCAR/TROLLEY |
| 04 | PICKUP TRUCK | 13 | SUBWAY/ELEVATED |
| | | | RAIL |
| 05 | OTHER TRUCK | 14 | AIRPLANE |
| 06 | RV (RECREATIONAL VEHICLE) | 15 | TAXICAB |
| 07 | MOTORCYCLE | 16 | BICYCLE |
| 08 | OTHER P.O.V. → SPECIFY | 17 | WALK |
| | | | 18 SCHOOL BUS |
| | | 19 | WORKED FROM HOME/ |
| | | | TELECOMMUTED |
| | | 20 | OTHER → SPECIFY: |
| | | | |

CATI EDIT CHECK: ALLOW ONLY RESPONSES WHICH WERE REPORTED IN QUESTION 8.

CATI EDIT CHECK: VERIFY THAT MILES PER HOUR FOR QUESTION 9 IS WITHIN ACCEPTABLE RANGE BASED ON DISTANCE, TIME, AND MODE.

| MODE IN Q9 | <u>VALID MPH RANGE</u> |
|---------------------|------------------------|
| 01 - 09, 15, 18, 19 | 10-90 |
| 10-13 | 20-100 |
| 14 | 80-600 |
| 16 | 1-20 |
| 17 | 1-10 |

CHECK ITEM: IS PUBLIC TRANSPORTATION USED? [DOES Q8=09, 10, 11, 12, OR 13?]

- 1 YES
- 2 NO GO TO NEXT CHECK ITEM
- 10. REPEAT QUESTIONS 10-12 FOR EACH PUBLIC TRANSPORTATION METHOD REPORTED IN QUESTION 8.

How many minutes (do you/does PERSON) usually have to wait for the (PUBLIC TRANSPORTATION MEANS IN Q8)?

{WAITAMTR, WAITBUS, WAITSBWY, WAITSTRC, WAITTRAN}

_____ MINUTES

11. (Do you/Does PERSON) usually sit, stand, or do both on the (PUBLIC TRANSPORTATION MEANS IN Q8)?

(SITAMTR, SITBUS, SITSBWY, SITSTCR, SITTRAN)

- 1 SIT ONLY → GO TO NEXT CHECK ITEM
- 2 STAND ONLY GO TO NEXT CHECK ITEM
- 3 SOME OF BOTH
- 12. Which (do you/does PERSON) usually do most, sit or stand?

{SIT2AMTR, SIT2BUS, SIT2SBWY, SIT2STCR, SIT2TRAN}

- 1 SIT
- 2 STAND

CHECK ITEM: IS PRIVATE VEHICLE USED? [DOES Q8=01, 02, 03, 04, 05, 06, 07, OR 08?]

- 1 YES
- 2 NO → GO TO QUESTION 19
- 13. Do you pay for parking at work (or on your way to work)?

{PAYTOPK}

- 1 YES
- 2 NO GO TO QUESTION 15
- 14. How much do you usually pay?

{PARKAMT} AMOUNT: _____

UNIT:

{PARKCODE}

- 1 HOUR
- 2 DAY
- 3 WEEK
- 4 MONTH
- 5 YEAR
- 6 QUARTER
- 7 OTHER → SPECIFY: _____
- 15. (Do you/Does PERSON) <u>usually</u> drive to work alone or (do you/does he/does she) carpool?

{USULDRV}

- 1 DRIVE ALONE → GO TO NEXT CHECK ITEM
- 2 CARPOOL

(CARPOOLING DOES NOT INCLUDE THE PRESENCE OF A CHILD BEING TAKEN TO SCHOOL OR DAY CARE. DOES INCLUDE ONE ADULT DROPPING OFF ANOTHER ON THE WAY.)

16. (Are you/Is PERSON) always the driver, (do you/does PERSON) share the driving on a regular basis, or (do you/does PERSON) rarely or never drive?

{ALWYSDRV}

- 1 ALWAYS DRIVE
- 2 SHARE THE DRIVING
- 3 RARELY OR NEVER DRIVE

GO TO QUESTION 19

CHECK ITEM: IS THIS A PROXY INTERVIEW?

- 1 YES GO TO QUESTION 19
- 2 NO

CHECK ITEM: IS PUBLIC TRANSPORTATION USED? [DOES F8 = 09, 10, 11, 12, OR 13?]

- 1 YES GO TO QUESTION 19
- 2 NO

CHECK ITEM: DID R REPORT THAT PUBLIC TRANSPORTATION IS NOT AVAILABLE? [DOES E2 = 6?]

- 1 YES → GO TO QUESTION 17
- 2 NO

CHECK ITEM: WAS PUBLIC TRANSPORTATION REPORTED AS AVAILABLE IN SECTION C? [DOES C1 = 1?]

- 1 YES
- 2 NO → GO TO QUESTION 17

CHECK ITEM: IS CASE ASSIGNED TO "CARPOOL" TREATMENT? [DOES PREASSIGNED RANDOM INDICATOR FOR "WHY NOT" = 1]?

- 1 YES
- 2 NO GO TO QUESTION 18
- 17. What are the reasons you do not carpool to work? (CODE ALL THAT APPLY.)
 - 1 WORK IRREGULAR/UNUSUAL HOURS {NCIRRHR}

1

YES

2 NO ONE TO CARPOOL WITH {NCNOONE} 3 DON'T WANT INCONVENIENCE/HASSLE **{NCINCVNT}** 4 {NCNEEDCR} NEED OWN VEHICLE AT/BEFORE/AFTER WORK 5 SHORT DISTANCE--DON'T THINK IT'S NECESSARY {NCSHRTDI} 6 OTHER → SPECIFY: _____ **{NCOTHRES}** {SEE ALSO: NCCOMCR, NCLVFAR, NCNEVER, NCNLIKE, NCONLY} **GO TO QUESTION 19** 18. What are the reasons you do not use public transportation such as buses or subways to travel to work? (CODE ALL THAT APPLY.) 1 NOT AVAILABLE AT WORKPLACE {NPT2FRWK} 2 {NPT2MCHT} TAKES TOO MUCH TIME 3 {NPT2EXPV} **COSTS TOO MUCH** 4 NEED OWN VEHICLE AT/BEFORE/AFTER WORK {NPTOTHTG} 5 SCHEDULE IS NOT CONVENIENT {NPTNTCNV} 6 CLOSEST STOP IS TOO FAR FROM HOME {NPTFMHM} 7 OTHER → SPECIFY: _____ {NPTOTHER} { SEE ALSO: NPTCOMCR, NPTDLPT, NPTNVCAR, NPTLVCLS} 19. On any day last week, did (you/PERSON) work from home instead of traveling to (your/his/her) usual workplace? **{WKFMHMLW}** 1 YES → GO TO QUESTION 21 2 NO (CODE YES ONLY IF R WORKED AT HOME INSTEAD OF GOING TO THE WORKPLACE. DO NOT INCLUDE WORKING AT HOME IN ADDITION TO WORKING AT THE WORKPLACE.) 20. On any day in the past two months, did (you/PERSON) work from home instead of traveling to (your/his/her) usual workplace? **{WKFMHM2M}**

2 NO → GO TO NEXT SECTION

(CODE YES ONLY IF R WORKED AT HOME <u>INSTEAD</u> OF GOING TO THE WORKPLACE. DO NOT INCLUDE WORKING AT HOME IN <u>ADDITION</u> TO WORKING AT THE WORKPLACE.)

21. In the past <u>two months</u>, about how often (have you/has PERSON) worked from home instead of traveling to (your/his/her) usual workplace?

{WKFMHMXX}

- 1 TWO OR MORE DAYS A WEEK (11+ TIMES)
- 2 ABOUT ONCE A WEEK (5-10 TIMES)
- 3 ONCE OR TWICE A MONTH (2-4 TIMES)
- 4 LESS THAN ONCE A MONTH (ONE TIME)

(INCLUDE ONLY THE DAYS R WORKED AT HOME <u>INSTEAD</u> OF AT THE WORKPLACE. DO <u>NOT</u> INCLUDE DAYS WORKED AT HOME IN <u>ADDITION</u> TO AT THE WORKPLACE.)

SECTION G - TRAVEL DAY (HOUSEHOLD MEMBERS 5 YEARS OR OLDER; PROXY PERMITTED UNDER PROXY RULES. PROXY REQUIRED FOR PERSONS 5-13 YEARS)



CHECK ITEM 1: IS R 5-15 YEARS OF AGE?

- 1 YES
- 2 NO → GO TO INTRO
- 1. How often (do you/does PERSON) wear (your/his/her) seat belt when riding in a car or other private vehicle? Would you say...

{FQSTBELT}

- 1 Always, → GO TO INTRO
- 2 Most of the time,
- 3 Sometimes, or
- 4 Never? → GO TO INTRO
- 2. What are the typical situations when (you do/PERSON does) not wear seat belts? (CODE ALL THAT APPLY.)
 - **{NSBFGET}** 1 WHEN FORGET 2 WHEN BROKEN/UNAVAILABLE {NSBBROKE} 3 SHORT TRIPS **{NSBSHORT}** 4 **{NSBLONG}** LONG TRIPS 5 {NSBBACK} IN BACK SEAT 8 WHEN IN A CERTAIN VEHICLE (E.G. PICKUP) **{NSBSPVEH}** 9 IN TOWN/CITY {NSBTOWN} 10 WHEN WITH A CERTAIN PERSON (E.G. OTHER PARENT) {NSBSPPER} OTHER → SPECIFY: 11 **{NSBOTHER}**

{SEE ALSO: NSBHURRY, NSBMED, NSBNLIKE, NSBNOASK, NSBPOLIC, NSBSPCLH, NSBWTHR}

INTRO Now I have some questions about <u>all</u> trips (you/PERSON) took (yesterday/on TRAVEL DAY). Even though (your/his/her) travel on this day may have been unusual for some reason, we still want to know about (your/PERSON's) trips on this particular day.

CHECK ITEM 2: IS R A WORKER, AS REPORTED IN QUESTION F2?

- 1 YES
- 2 NO GO TO QUESTION 9

CHECK ITEM 3: IS R A DRIVER, AS REPORTED IN SECTION E?

- 1 YES
- 2 NO GO TO QUESTION 9
- 3. (Yesterday/On TRAVEL DAY), did (you/PERSON) work at a job that required (you/him/her) to drive a licensed motor vehicle as part of the job--for example a cab or truck driver, delivery person, police officer, or traveling salesperson? Please do not include just getting to and from the workplace.

{WRKDRIVE}

- 1 YES
- 2 NO → GO TO QUESTION 9
- 4. What is that job or occupation?

OCCUPATION _____

5. While working at this job on (TRAVEL DAY), did you travel from one place to another more than ten times?

{WRKTRPS}

- 1 YES
- 2 NO GO TO QUESTION 9
- 6. On (TRAVEL DAY) about how many miles did (you/PERSON) drive as part of (your/his/her) work, not counting miles driven to and from (your/his/her) place of work?

{WRKMILES}

____ MILES

CATI EDIT CHECK: IF RESPONSE < 15 MILES, CATI WILL PROMPT INTERVIEWER TO VERIFY THAT R DID MAKE 5 OR MORE TRIPS ON TRAVEL DAY.

7. What type of vehicle did (you/PERSON) drive as part of this job?

{WRKVTYPE}

IF MORE THAN ONE TYPE, MARK THE TYPE DRIVEN MOST. READ CHOICES AS NECESSARY.

| 01 | AUTOMOBILE | 07 | MOTORCYCLE |
|-----------|----------------------------------|----|------------|
| 02 | VAN (MINI, CARGO, PASSENGER) | | 08 OTHER |
| VEHICLE→S | PECIFY: | | |
| 03 | UTILITY VEHICLE (BRONCO, BLAZER, | | |
| | 4RUNNER, PATHFINDER, ETC.) | 09 | BUS |
| 04 | PICKUP TRUCK | 10 | SCHOOL BUS |
| 05 | OTHER TRUCK | 11 | TAXICAB |
| 06 | RV (RECREATIONAL VEHICLE) | | |
| | | | |

8. How many days a week (do you/does PERSON) usually work at this job?

{WORKDAYS}

NUMBER OF DAYS _____ (1-7)

9. Several days ago we mailed a diary to your household for (you/PERSON) to complete about (your/his/her) travel on (TRAVEL DAY). Did (you/PERSON) complete the diary on (your/his/her) own or did someone else complete it for (you/him/her)?

{DIARYCMP}

- 1 COMPLETED ON OWN
- 2 SOMEONE ELSE COMPLETED IT
- 3 DIARY WAS NOT COMPLETED AT ALL GO TO QUESTION 11a
- 4 DID NOT RECEIVE MATERIALS GO TO QUESTION 11a

CHECK ITEM 3A: DID R MAKE MORE THAN 10 TRIPS AS PART OF WORK ON TRAVEL DAY? [DOES G5=1?]

- 1 YES
- 2 NO GO TO QUESTION 10
- 9a. Did (you/PERSON) record the trips (you/he/she) made as part of (your/his/her) work?
 - 1 YES Since it would be too difficult to cover all these trips over the phone, we will send you a self-addressed, stamped envelope to mail

(your/his/her) diary to us. For this interview, we'll focus on (your/his/her) non-work trips.

- 2 NO
- 10. Do you have (your/PERSON's) completed diary with you now?

{DIARYHAV}

- 1 YES- GO TO QUESTION 12
- 2 NO
- 11. Can you get the diary?

{DIARYGET}

- 1 YES (WAIT FOR R TO RETRIEVE THE DIARY; GO TO QUESTION 12)
- 2 NO
- 11a. Let's continue with the interview anyway. Information on (you/PERSON's) travel is important to us. Please try to recall the information as best you can.
- 12. For the next questions, a "trip" is any time (you/PERSON) went from one address to another in a vehicle or by walking or biking. Each stop you make is a separate trip, including picking up or dropping off someone.

To be sure we get all the trips (you/PERSON) took during the day, we'll list all (your/PERSON's) trips starting at 4 a.m. in the morning and ending at 4 a.m. the next morning.

IF QUESTION 5 = YES: We do <u>not</u> want to include the trips you made as part of your job, but we do want to include trips to and from your workplace.

IF QUESTION 5 = NO: Please include the trips you made as part of your work.

NOTE: WHILE ASKING QUESTIONS 12 THRU 17, THE INTERVIEWER WILL HAVE INFORMATION REPORTED BY OTHER HOUSEHOLD MEMBERS DISPLAYED ON THE SCREEN: FOR EXAMPLE:

| TRIP | DESCRIPTION | TIME | REPORTED BY |
|------|-------------|--------|-------------|
| 1 | post office | 9:00am | John |
| 2 | work | 9:15am | John |
| 3 | home | 3:00pm | Karen |

Where did (you/PERSON) go first (yesterday/on TRAVEL DAY)?

{WHERE, FROM_A}

- 1 HOME → GO TO QUESTION 15
- 2 WORK GO TO QUESTION 15
- 3 OTHER → SPECIFY: _____ → GO TO QUESTION 15
- 4 NOWHERE
- 5 OUT OF COUNTRY GO TO QUESTION 14
- 13. Does this mean (you/PERSON) stayed at the same place all day?

{SAMEPLC}

- 1 YES → GO TO NEXT SECTION
- 2 NO → REASK QUESTION 12
- 14. Just to verify, (you were/PERSON was) out of the country for the entire day (yesterday/on TRAVEL DAY), is that correct?

{OUTCNTRY}

- 1 YES → GO TO NEXT SECTION
- 2 NO → REASK QUESTION 12
- 15. What time did this trip begin?

(STRTTIME, DAYNIGHT)

INTERVIEWER: IS THIS THE SAME OR SIMILAR TO ANY TRIP DISPLAYED ABOVE?

- 1 YES → VERIFY WITH R AND ENTER TRIP NUMBER
- 2 NO
- 16. Where did (you/he/she) go next?

{WHERE, FROM_A, TO_B}

- 1 HOME
- 2 WORK

| _ | | _ | |
|---------|--------------|------------|----|
| Saction | \mathbf{c} | (continued | I١ |
| SECTION | G | lconunucu | u |

3 OTHER → SPECIFY: _____

17. What time did this trip begin?

(STRTTIME, DAYNIGHT, DWELTIME)

INTERVIEWER: IS THIS THE SAME OR SIMILAR TO ANY TRIP DISPLAYED ABOVE?

{PREVREP, MATCH}

- 1 YES → VERIFY WITH R AND ENTER TRIP NUMBER
- 2 NO

REPEAT QUESTIONS 16 AND 17 UNTIL NO MORE TRIPS.

RECONCILIATION

IF ANY PREVIOUSLY-REPORTED TRIPS REMAIN:

I also show a trip to (DESCRIPTION) at (TIME) reported by (NAME). Did you take this trip?

- 1 YES INDICATE WHICH TRIP THIS WAS OR ADD TO LIST OF TRIPS
- 2 NO

WHEN ALL TRIPS MADE ON TRAVEL DAY HAVE BEEN LISTED, SAY: While I read the trips, please think back to see if there were any additional ones.

READ LIST; ADD ADDITIONAL TRIPS IF REPORTED. WHEN ALL TRIPS HAVE BEEN LISTED AND VERIFIED, CONTINUE.

CHECK ITEM 4: IS DESTINATION FOR FIRST TRIP HOME? [DOES Q12 = 1?]

- 1 YES
- 2 NO → GO TO QUESTION 19
- 18. Now I have a few questions about each trip.
 You told me the first place (you/PERSON) went was home. What was the main reason (you were/PERSON was) away from home?

{AWAYHOME}

| 01 | AT WORK | 09 | TAKE SOMEONE SOMEWHERE |
|----|-------------------------|------|----------------------------|
| 02 | WORK RELATED BUSINESS | | 10 PICK UP SOMEONE |
| | | 11 | VACATION |
| 04 | SHOPPING | 12 | VISIT FRIENDS OR RELATIVES |
| 05 | AT SCHOOL | 13 | WENT OUT TO EAT |
| 06 | AT RELIGIOUS ACTIVITY | | 14 OTHER |
| | | | SOCIAL/RECREATIONAL |
| 07 | MEDICAL/DENTAL | | |
| 08 | OTHER FAMILY OR PERSONA | L 16 | OTHER → SPECIFY: |
| | BUSINESS | | |

GO TO CHECK ITEM 6

19. Now I have a few questions about each trip.

Did the trip to (FIRST DESTINATION) begin at home?

{FRSTHM}

- 1 YES
- 2 NO

20. IF DESTINATION = HOME, CATI WILL CODE "17" AND SKIP TO CHECK ITEM 6.

What was the main purpose of the trip to (DESTINATION)?

{WHYFROM, WHYTO, WHYTRP90, WHYTRP95}

| 01 | TO WORK | 09 | TAKE SOMEONE SOMEWHERE |
|----|--------------------------|----|----------------------------|
| 02 | WORK RELATED BUSINESS | 10 | PICK UP SOMEONE |
| 03 | RETURN TO WORK | 11 | VACATION |
| 04 | SHOPPING | 12 | VISIT FRIENDS OR RELATIVES |
| 05 | SCHOOL | 13 | WENT OUT TO EAT |
| 06 | RELIGIOUS ACTIVITY | 14 | OTHER |
| | | | SOCIAL/RECREATIONAL |
| 07 | MEDICAL/DENTAL | 15 | CHANGE MEANS OF TRANSP. |
| 08 | OTHER FAMILY OR PERSONAL | 16 | OTHER → SPECIFY: |
| | BUSINESS | | |

17 HOME [NOT DISPLAYED ON CATI SCREEN]

CHECK ITEM 5: IS PURPOSE TO TAKE SOMEONE SOMEWHERE? [DOES Q20=09]?

- 1 YES
- 2 NO → GO TO CHECK ITEM 6
- 21. What was (passenger's) main reason for the trip?

{PASSPURP}

| 01 | TO WORK | | |
|----|--------------------------|----|----------------------------|
| 02 | WORK RELATED BUSINESS | | |
| 03 | RETURN TO WORK | 11 | VACATION |
| 04 | SHOPPING | 12 | VISIT FRIENDS OR RELATIVES |
| 05 | SCHOOL | 13 | WENT OUT TO EAT |
| 06 | RELIGIOUS ACTIVITY | 14 | OTHER |
| | | | SOCIAL/RECREATIONAL |
| 07 | MEDICAL/DENTAL | | |
| 08 | OTHER FAMILY OR PERSONAL | 16 | OTHER → SPECIFY: |
| | BUSINESS | | |
| | | 17 | HOME |

(CODE CHILD BEING TAKEN TO DAY CARE AS OTHER FAMILY OR PERSONAL BUSINESS.)

CHECK ITEM 6: HAVE DATA ON THIS TRIP ALREADY BEEN REPORTED BY ANOTHER HOUSEHOLD MEMBER?

- 1 YES
- 2 NO GO TO QUESTION 22 OR ORIGIN/DESTINATION

CHECK ITEM 7: IS THIS A PROXY INTERVIEW?

- 1 YES → GO TO QUESTION 20 FOR NEXT TRIP/NEXT SECTION
- 2 NO

CHECK ITEM 8: WAS R THE DRIVER ON THIS TRIP, AS REPORTED BY OTHER HOUSEHOLD MEMBER?

{DRVR_FLG}

- 1 YES
- 2 NO → RETURN TO QUESTION 20 FOR NEXT TRIP/NEXT SECTION

| ORIGIN/DESTINATION ITEMS: |
|--|
| FOR MPO ADD-ONS ONLY |
| IF DESTINATION = HOME OR WORK, SKIP THIS ITEM. |
| What are the full name and address of the (DESTINATION)? |
| NAME OF PLACE |
| STREET ADDRESS |
| CITY STATE ZIP |
| (IF NAME OF PLACE IS OBVIOUS, ENTER WITHOUT ASKING. IF R DOES NOT KNOW EXACT ADDRESS, PROBE FOR NEAREST ROAD INTERSECTION AND ENTER THIS.) |

22. How far is it from where (you/PERSON) started to (DESTINATION)?

{TRPMILES, HOWFARU}

BLOCKS OR MILES
996 = LESS THAN 1 BLOCK
997 = 1/2 MILE

(IF ASKED, RECORD ACTUAL DISTANCE TRAVELED, NOT DISTANCE "AS THE CROW FLIES.")

CHECK ITEM 9: HAVE DATA ON THIS TRIP ALREADY BEEN REPORTED BY ANOTHER HOUSEHOLD MEMBER? [NOTE: IF DATA WERE ALREADY REPORTED BUT R WAS NOT DRIVER, R WILL ALREADY HAVE SKIPPED OUT IN CHECK ITEM 8.]

- 1 YES GO TO QUESTION 27
- 2 NO

23. IF NO VEHICLES WERE REPORTED IN SECTION B CATI WILL CODE "2" AND GO TO QUESTION 25.

Was a household vehicle used on this trip?

{TRPHHVEH}

- 1 YES
- 2 NO → GO TO QUESTION 25
- 3 PART OF TRIP
- 24. IF ONLY ONE VEHICLE REPORTED IN SECTION B CATI WILL CODE VEHICLE NUMBER "1" AND GO TO QUESTION 27.

Which vehicle? (IF NEEDED: Which one was used for the longest distance?)

{VEHID}

VEHICLE NUMBER OR

-3 HOUSEHOLD VEHICLE THAT NEEDS TO BE ADDED TO VEHICLE ROSTER - AT COMPLETION OF TRAVEL DAY SECTION, CATI WILL ROUTE THROUGH QUESTIONS TO ADD VEHICLE TO ROSTER AND THEN CHANGE -3 CODE TO THE PROPER VEHICLE NUMBER.

CHECK ITEM 10: WAS VEHICLE USED FOR THE ENTIRE TRIP [DOES Q23=1]?

- 1 YES GO TO QUESTION 27
- 2 NO
- 25. IF Q23=2 THEN ASK: How did (you/PERSON) get to (DESTINATION)? (That is, what means of transportation did (you/PERSON) use for this trip?) (IF MORE THAN ONE MODE, CODE THE ONE USED FOR THE LONGEST DISTANCE.)

{TRPTRANS}

IF Q23=3 THEN ASK: What other means of transportation did (you/PERSON) use?

- 01 AUTOMOBILE 09 BUS
- 02 VAN (MINI, CARGO, PASSENGER) 10 AMTRAK
- 03 UTILITY VEHICLE (BRONCO, BLAZER 11 COMMUTER TRAIN 4RUNNER, PATHFINDER, ETC.) 12 STREETCAR/TROLLEY

| 04 | PICKUP TRUCK | 13 | SUBWAY/ELEVATED |
|----|---------------------------|----|------------------|
| | | | RAIL |
| 05 | OTHER TRUCK | 14 | AIRPLANE |
| 06 | RV (RECREATIONAL VEHICLE) | 15 | TAXICAB |
| 07 | MOTORCYCLE | 16 | BICYCLE |
| 08 | OTHER P.O.V. → SPECIFY | 17 | WALK |
| | | | 18 SCHOOL BUS |
| | | 19 | OTHER → SPECIFY: |

CHECK ITEM 11: WAS PUBLIC TRANSPORTATION USED? [DOES Q25=9, 10, 11, 12, OR 13?]

{PUBTRANS}

- 1 YES
- 2 NO GO TO QUESTION 27
- 26. Did (you/PERSON) make a transfer, walk, or use any other methods of transportation along the way?

{TRANSFER}

- 1 YES → GO TO QUESTION 28
- 2 NO
- 27. About how many minutes did it take to get there?

{TRVL_MIN}

_____ MINUTES OR ____ HOURS

CATI EDIT: CATI WILL CALCULATE END TIME. CATI EDIT CHECK: VERIFY THAT MILES PER HOUR IS WITHIN ACCEPTABLE RANGE BASED ON DISTANCE, TIME, AND MODE.

| MODE IN Q25 | VALID MPH RANGE | | |
|---------------------|-----------------|--|--|
| 01 - 09, 15, 18, 19 | 10-90 | | |
| 10-13 | 20-100 | | |
| 14 | 80-600 | | |
| 16 | 1-20 | | |

17 1-10

CHECK ITEM 12: HAVE DATA ON THIS TRIP ALREADY BEEN REPORTED BY ANOTHER HOUSEHOLD MEMBER? [NOTE: IF DATA WERE ALREADY REPORTED BUT R WAS NOT DRIVER, R WILL ALREADY HAVE SKIPPED OUT IN CHECK ITEM 8.]

- 1 YES GO TO QUESTION 37
- 2 NO GO TO CHECK ITEM 13

NOTE: QUESTIONS 28-30 ARE FOR MULTI-SEGMENT TRIPS.

28. ASK ONLY IF NOT KNOWN: What means of transportation did (you/PERSON) use for the (first/next) part of this trip?

(SEG1TRAN, SEG2TRAN, SEG3TRAN, SEG4TRAN)

97 NO OTHER PORTION OF TRIP - GO TO CHECK ITEM 13

| K |
|--------|
| RAIN |
| ROLLEY |
| VATED |
| |
| |
| |
| |
| |
| L BUS |
| CIFY: |
| |

29. What time did (you/PERSON) begin this part of the trip?

(SEG1TIME, SEG2TIME, SEG3TIME, SEG4TIME)

CATI EDIT: CATI WILL CONVERT TO MILITARY TIME.

30. About how many minutes did this part of the trip take?

| A | _ | / | • • • |
|----------|----------|-----------|-------|
| SACTION | (= 1 | (continue | ก |
| OCCLIOII | \sim 1 | COLLULIAG | u, |
| | | | |

| | MINUTES |
|-------------|--|
| CAT | T EDIT: CATI WILL CALCULATE END TIME. |
| | CK ITEM 13: WAS PUBLIC TRANSPORTATION USED? [DOES Q25=09, 10, 2, OR 13 OR DOES Q28=09, 10, 11, 12, OR 13 FOR ANY SEGMENT?] |
| | YES NO → GO TO CHECK ITEM 14 |
| | many minutes did (you/PERSON) have to wait for the (TRANSPORTATION ANS)? |
| {WA | AIT_MIN} |
| | MINUTES |
| | (you/PERSON) sit, did (you/PERSON) stand, or did (you/PERSON) do both on the ANSPORTATION MEANS)? |
| {STA | ANDSIT} |
| 1 2 3 | SIT ONLY - GO TO CHECK ITEM 14 STAND ONLY - GO TO CHECK ITEM 14 SOME OF BOTH |
| Whic | ch did (you/PERSON) do most of the time, sit or stand? |
| {SIT | TMOST} |
| 1 2 | SIT STAND |
| GO T | ΓΟ QUESTION 35 |
| | CK ITEM 14: WAS A PRIVATE VEHICLE USED FOR THIS TRIP? [DOES =1 OR Q25=01, 02, 03, 04, 05, 06,07 OR 08?] |
| | 1 YES 2 NO → GO TO QUESTION 35 |

- 34. Was anyone with you on this trip?
 - 1 YES
 - 2 NO CATI WILL CODE "NO" FOR QUESTIONS 35 AND 39 AND ENTER R'S ROSTER NUMBER AS THE DRIVER ON THE TRIP. THEN GO TO QUESTION 20 FOR NEXT TRIP/NEXT SECTION.
- 35. IF THIS IS A SINGLE-PERSON HOUSEHOLD, GO TO CHECK ITEM 15.

Were any household members with (you/PERSON) on this trip?

{TRPHHACC}

- 1 YES
- 2 NO → GO TO CHECK ITEM 15
- 36. (Which household members?)

{HH_ONTRP, NUMONTRP, WHOACC_A through WHOACC_J}

ENTER ROSTER NUMBER (S):

CHECK ITEM 15: WAS A PRIVATE VEHICLE USED FOR THIS TRIP? [DOES Q23 = YES OR DOES Q25=01, 02, 03, 04, 05, 06, 07, OR 08?]

- 1 YES
- 2 NO → GO TO CHECK ITEM 16
- 37. IF NO HOUSEHOLD MEMBERS WERE WITH R [Q35=2] AND R IS NOT A DRIVER, CATI WILL CODE "NO" FOR QUESTION 37 AND GO TO CHECK ITEM 16.

Did (you/PERSON/a member of the household) drive on the trip?

{HHMEMDRV}

- 1 YES
- 2 NO → GO TO CHECK ITEM 16
- 3 PART OF TRIP
- 38. IF SINGLE-PERSON HOUSEHOLD, CATI WILL CODE "1" FOR QUESTION 38 AND GO TO CHECK ITEM 16.

IF A HOUSEHOLD MEMBER DROVE ON THE TRIP [Q37 = 1] AND NO OTHER HOUSEHOLD MEMBERS WERE ON THE TRIP [Q35 = 2], CATI WILL CODE R'S ROSTER NUMBER FOR Q38 AND GO TO CHECK ITEM 16.

Who was that? (IF NEEDED: Which one drove the longest distance?)

| {DRVR_FLG, WHODROVE} |
|---|
| ENTER ROSTER NUMBER: |
| CATI EDIT CHECK: VERIFY THAT PERSON ENTERED WAS REPORTED TO BE ON THIS TRIP (Q36) AND THAT HE/SHE IS LISTED AS DRIVER IN HOUSEHOLD ROSTER. |
| CHECK ITEM 16: HAVE DATA ON THIS TRIP ALREADY BEEN REPORTED BY ANOTHER HOUSEHOLD MEMBER? [NOTE: IF DATA WERE ALREADY REPORTED BUT R WAS NOT DRIVER, R WILL ALREADY HAVE SKIPPED OUT IN CHECK ITEM 8.] |
| 1 YES→ GO TO QUESTION 20 FOR NEXT TRIP/NEXT SECTION NO |
| Did any non-household members go with (you/PERSON) on this trip, (such as friends, relatives, or other people you know)? |

{NONHHACC}

1 YES

39.

- 2 NO → GO TO QUESTION 20 FOR NEXT TRIP/NEXT SECTION
- 40. How many non-household members went on this trip with (you/PERSON)?

| {NONHHCNT, | NUMONTRP) |
|------------|-----------|
| | |

NUMBER:

CATI EDIT CHECK: RANGE CHECK BASED UPON MODE, ESPECIALLY FOR BUS, AIRPLANE, TRAIN, ETC.
GO TO QUESTION 20 FOR NEXT TRIP/NEXT SECTION

SECTION H - TRAVEL PERIOD - COLLECT ONLY TRIPS OF 75 MILES OR MORE FROM HOME TAKEN DURING THE 14 DAY TRAVEL PERIOD (HOUSEHOLD MEMBERS 5 YEARS OR OLDER. PROXY PERMITTED UNDER PROXY RULES. PROXY REQUIRED FOR PERSONS 5-13 YEARS)



| 1. | Now I would like to ask about any trips of 75 miles or more one way that (you/PERSON) may have taken recently. How many trips of 75 miles or more one way did (you/PERSON) take where (you/he/she) returned home between and? |
|----|---|
| | TRIPS |
| | IF NONE, GO TO NEXT SECTION |
| 2. | What was the farthest point (you/PERSON) traveled to on (this/the first/the next) trip? Please tell me the city and state, or foreign country. |
| | {COUNTRY, DESTSTAT} |
| | CITY OR PLACE STATE OR FOREIGN COUNTRY |
| 3. | On what date did (you/PERSON) return home from the trip to (DESTINATION)? |
| | {RET_MON, RET_YR} |
| | DATE: |
| | CATI EDIT CHECK: VERIFY THAT DATE GIVEN IS WITHIN 14 DAY TRAVEL PERIOD. |
| | CHECK ITEM: IS DATE IN QUESTION 3 = TRAVEL DAY? |
| | YES NO → GO TO QUESTION 6 |
| 4. | Were any of the trips you told me about earlier on (TRAVEL DAY) part of this trip to (DESTINATION)? |
| | YES NO → GO TO QUESTION 6 |
| 5. | Which trips were part of this longer trip? |

$\{OVERLAP\}$

| | (DISD | LAY TRAVEL DAY TRIP ROSTER | DEA | D TDIDS IE NECESSADV) |
|----|--------|---|----------|------------------------------|
| | | R ROSTER NUMBER(S): | | D TRIPS IF NECESSART.) |
| | | | | |
| 6. | What v | was the <u>main</u> reason (you/PERSON) n | nade the | e trip to (DESTINATION)? |
| | {TOW | /HYTRP} | | |
| | 01 | TO WORK | 09 | TAKE SOMEONE SOMEWHERE |
| | 02 | WORK RELATED BUSINESS | | 10 PICK UP SOMEONE |
| | | | 11 | VACATION |
| | 04 | SHOPPING | 12 | VISIT FRIENDS OR RELATIVES |
| | 05 | SCHOOL | 13 | WENT OUT TO EAT |
| | 06 | RELIGIOUS ACTIVITY | 14 | OTHER |
| | | | | SOCIAL/RECREATIONAL |
| | 07 | MEDICAL/DENTAL | | |
| | 08 | OTHER FAMILY OR PERSONAL BUSINESS | 16 | OTHER - SPECIFY: |
| | CHEC | K ITEM: IS PURPOSE TO TAKE S | OMEC | ONE SOMEWHERE? [DOES Q6=09? |
| | | 1 YES | | |
| | | NO → GO TO QUESTION 8 | | |
| 7. | What | was (passenger's) main reason for the t | rip? | |
| | {TOW | /HYPAS} | | |
| | 01 | TO WORK | | |
| | 02 | WORK RELATED BUSINESS | | |
| | 03 | RETURN TO WORK | | 11 VACATION |
| | 04 | SHOPPING | 12 | VISIT FRIENDS OR RELATIVES |
| | 05 | SCHOOL | 13 | WENT OUT TO EAT |
| | 06 | RELIGIOUS ACTIVITY | 14 | OTHER SOCIAL/RECREATIONAL |
| | 07 | MEDICAL/DENTAL | | SOCIAL/INDENLATIONAL |
| | 08 | OTHER FAMILY OR PERSONAL | 16 | OTHER → SPECIFY: |
| | UU | OTTLK I AMILI OK I EKSONAL | 10 | OTTILIN DI LOII I. |

| BUSINESS | | | |
|----------|----|------|--|
| | 17 | HOME | |

8. What was the <u>main</u> means of transportation used for the trip to (DESTINATION)?

(IF NEEDED: What means of transportation was used for the <u>longest</u> distance.)

{TO_TRANS}

| 01 | AUTOMOBILE | 09 | BUS |
|----|---------------------------------|------|-----------------------------------|
| 02 | VAN (MINI, CARGO, PASSENGER) | 0, | 10 AMTRAK |
| 03 | UTILITY VEHICLE (BRONCO, BLAZER | 2 11 | COMMUTER TRAIN |
| | 4RUNNER, PATHFINDER, ETC.) | 12 | STREETCAR/TROLLEY |
| 04 | PICKUP TRUCK | 13 | SUBWAY/ELEVATED |
| | | | RAIL |
| 05 | OTHER TRUCK | 14 | AIRPLANE |
| 06 | RV (RECREATIONAL VEHICLE) | 15 | TAXICAB |
| 07 | MOTORCYCLE | 16 | BICYCLE |
| 08 | OTHER P.O.V. → SPECIFY | 17 | WALK |
| | | 19 | 18 SCHOOL BUS OTHER → SPECIFY: |

CHECK ITEM: ARE THERE MORE TRIPS TO BE ASKED ABOUT?

- 1 YES RETURN TO QUESTION 2 FOR NEXT TRIP
- 2 NO

ROUTING INSTRUCTIONS:

FOR ALL CASES, SET PERSON LEVEL STATUS CODE TO 50 (SELF) OR 51 (PROXY)

PERSON UNDER 18 - CONCLUDE INTERVIEW. SEEK TO INTERVIEW ANY OTHER PERSONS IN THE HOUSEHOLD STILL NEEDING TO BE INTERVIEWED.

PERSON WHOSE INCOME WAS NOT INCLUDED IN HOUSEHOLD ESTIMATE - SECTION I

PERSON 18 OR OLDER – SECTION J, K, OR L IF THERE IS INFORMATION MISSING IN THESE SECTIONS; OTHERWISE, CONCLUDE INTERVIEW AND SEEK TO INTERVIEW ANY OTHER PERSONS IN THE HOUSEHOLD STILL NEEDING TO BE INTERVIEWED.

SECTION I - INCOME OF PERSONS NOT INCLUDED IN HOUSEHOLD INCOME (PERSONS WHO ROSTER NUMBER WAS REPORTED IN QUESTION K11.)



1. In order to classify your household for statistical purposes, we need an estimate of (your/PERSON's) total income in the past 12 months. Please stop me when I get to the category that best describes (your/his/her) income.

{NONFMINC}

(Total income includes income from all sources such as wages and salaries, income from business or farm, Social Security, pensions, dividends, interest, rent, and any other income received.)

(IF R VOLUNTEERS AMOUNT THAT IS ON THE BREAKPOINT, CODE TO HIGHER CATEGORY.)

- 1 Less than \$10,000 GO TO QUESTION 2
- 2 \$10,000 to \$20,000 GO TO QUESTION 3
- 3 \$20,000 to \$30,000 → GO TO QUESTION 4
- 4 \$30,000 to \$40,000 GO TO QUESTION 5
- 5 \$40,000 to \$50,000 GO TO QUESTION 6
- 6 \$50,000 to \$60,000 GO TO QUESTION 7
- 7 \$60,000 to \$70,000 → GO TO QUESTION 8
- 8 \$70,000 to \$80,000 GO TO QUESTION 9
- 9 \$80,000 to \$100,000 GO TO CHECK ITEM
- 10 \$100,000 OR MORE → GO TO CHECK ITEM
- 2. Was (your/PERSON's) income more or less than \$5,000?
 - 1 \$5,000 OR MORE GO TO CHECK ITEM
 - 2 LESS THAN \$5.000 → GO TO CHECK ITEM
- 3. Was (your/PERSON's) income more or less than \$15,000?
 - 1 \$15,000 OR MORE → GO TO CHECK ITEM
 - 2 LESS THAN \$15,000 GO TO CHECK ITEM
- 4. Was (your/PERSON's) income more or less than \$25,000?
 - 1 \$25,000 OR MORE → GO TO CHECK ITEM
 - 2 LESS THAN \$25,000 → GO TO CHECK ITEM

- 5. Was (your/PERSON's) income more or less than \$35,000?
 - 1 \$35,000 OR MORE → GO TO CHECK ITEM
 - 2 LESS THAN \$35,000 → GO TO CHECK ITEM
- 6. Was (your/PERSON's) income more or less than \$45,000?
 - 1 \$45,000 OR MORE → GO TO CHECK ITEM
 - 2 LESS THAN \$45,000 → GO TO CHECK ITEM
- 7. Was (your/PERSON's) income more or less than \$55,000?
 - 1 \$55,000 OR MORE → GO TO CHECK ITEM
 - 2 LESS THAN \$55,000 → GO TO CHECK ITEM
- 8. Was (your/PERSON's) income more or less than \$65,000?
 - 1 \$65,000 OR MORE → GO TO CHECK ITEM
 - 2 LESS THAN \$65,000 → GO TO CHECK ITEM
- 9. Was (your/PERSON's) income more or less than \$75,000?
 - 1 \$75,000 OR MORE
 - 2 LESS THAN \$75,000



GO TO SECTION J, K, OR L IF THERE IS INFORMATION MISSING IN THESE SECTIONS; OTHERWISE, CONCLUDE INTERVIEW AND SEEK TO INTERVIEW ANY OTHER PERSONS IN THE HOUSEHOLD STILL NEEDING TO BE INTERVIEWED.

SECTION J - HOUSEHOLD LOCATION AND TELEPHONE NUMBER INFORMATION (ANY HOUSEHOLD MEMBER 18 OR OLDER)



1. Transportation planners use data from this study to assess current travel patterns and anticipate new ones. These patterns are affected by where people choose to live. (I'd like to verify that your home is located at:/Would you please tell me the address of your home?)

| none.) |
|--|
| STREET NUMBER STREET NAME |
| FIRST ROAD |
| SECOND ROAD |
| CITY STATE |
| ZIP CODE |
| DO NOT ENTER POST OFFICE BOX OR RURAL ROUTE!!! |
| IF NEEDED: It is important that we get at least a general location of your household. |
| Would you please identify the intersection of roads which is closest to your home? |
| NOTE: IF R PROVIDES STREET NUMBER AND STREET NAME, FIELDS FOR ROAD INTERSECTION WILL BE SKIPPED. IF EITHER STREET NUMBER OR NAME IS MISSING, INTERSECTION DATA WILL BE OBTAINED. |
| CATI EDIT CHECK: VERIFY THAT STATE ABBREVIATION AND ZIP CODE ARE LEGAL VALUES. |
| CHECK ITEM: WAS ZIP CODE GIVEN IN QUESTION 1? |
| 1 YES - GO TO QUESTION 3 2 NO |

CATI EDIT CHECK: VERIFY THAT ZIP CODE IS VALID FOR THE STATE.

3. How many different residential telephone numbers, including this number, are there for your household?

{TELNUMCT}

Would you please tell me your ZIP code?

2.

| | -1 | DV |
|----|--------|---|
| | -2 | DK RE |
| | -2 | NL . |
| 4. | _ | the past 12 months, has there been any time when you did not have telephone at your home for one week or longer? |
| | {NOT | ELYR} |
| | 1 | YES |
| | 2 | NO → GO TO NEXT SECTION |
| | people | EEDED: Since we are doing this survey by telephone, we cannot study the travel of without phones. Identifying people who were without phones at an earlier time is understand what kinds of travel may be missing from our data.) |
| 5. | About | how many weeks or months were you without service (in the past 12 months)? |
| | {NOT | ELWKS} |
| | ENTE | R NUMBER: |
| | UNIT: | 1 WEEKS 2 MONTHS |

NUMBER OF TELEPHONE NUMBERS: _____

(IF WITHOUT SERVICE MULTIPLE TIMES, ADD TOGETHER AND ENTER TOTAL NUMBER OF WEEKS OR MONTHS.)

SECTION K - HOUSEHOLD INCOME (ANY HOUSEHOLD MEMBER 18 OR OLDER)



1. In order to classify your household for statistical purposes, we need an estimate of your total <u>household</u> income in the past 12 months. Please stop me when I get to the category that best describes the total income of your household in the past 12 months.

(Total income includes income from all sources such as wages and salaries, income from business or farm, Social Security, pensions, dividends, interest, rent, and any other income received.)

{HHFAMINC}

(IF R VOLUNTEERS AMOUNT THAT IS ON THE BREAKPOINT, CODE TO HIGHER CATEGORY.)

- 1 Less than \$10,000 → GO TO QUESTION 2
- 2 \$10,000 to \$20,000 GO TO QUESTION 3
- 3 \$20,000 to \$30,000 GO TO QUESTION 4
- 4 \$30,000 to \$40,000 → GO TO QUESTION 5
- 5 \$40,000 to \$50,000 GO TO QUESTION 6
- 6 \$50,000 to \$60,000 GO TO QUESTION 7
- 7 \$60,000 to \$70,000 GO TO OUESTION 8
- 8 \$70,000 to \$80,000 → GO TO QUESTION 9
- 9 \$80,000 to \$100,000 GO TO QUESTION 10
- 10 \$100,000 or more? → GO TO QUESTION 10
- 2. Was your household income more or less than \$5,000?
 - 1 \$5,000 OR MORE → GO TO QUESTION 10
 - 2 LESS THAN \$5,000 GO TO QUESTION 10
- 3. Was your household income more or less than \$15,000?
 - 1 \$15,000 OR MORE → GO TO QUESTION 10
 - 2 LESS THAN \$15,000 → GO TO QUESTION 10
- 4. Was your household income more or less than \$25,000?
 - 1 \$25,000 OR MORE GO TO QUESTION 10
 - 2 LESS THAN \$25,000 → GO TO QUESTION 10
- 5. Was your household income more or less than \$35,000?

- 1
- \$35,000 OR MORE GO TO QUESTION 10 LESS THAN \$35,000 GO TO QUESTION 10 2

| Section | K | (continu | ıed) |
|---------|--------------|----------|------|
| Section | \mathbf{r} | lCOHUIIL | ıeu. |

| 6. | Was you | r household income more or less than \$45,000? |
|-------|-----------------|---|
| | | 45,000 OR MORE → GO TO QUESTION 10 ESS THAN \$45,000 → GO TO QUESTION 10 |
| 7. | Was you | r household income more or less than \$55,000? |
| | | 55,000 OR MORE → GO TO QUESTION 10 ESS THAN \$55,000 → GO TO QUESTION 10 |
| 8. | Was you | r household income more or less than \$65,000? |
| | | 65,000 OR MORE → GO TO QUESTION 10 ESS THAN \$65,000 → GO TO QUESTION 10 |
| 9. | Was you | r household income more or less than \$75,000? |
| | | 75,000 OR MORE ESS THAN \$75,000 |
| 10. | IF THIS | IS A SINGLE PERSON HOUSEHOLD, CATI WILL SKIP TO CHECK ITEM |
| | INTERV MEMBE | YIEWER: DOES THIS INCLUDE INCOME OF <u>ALL</u> HOUSEHOLD ERS? |
| | {NONF | MFLG} |
| | 1 2 | |
| 11. | WHOSE | INCOME ISN'T INCLUDED? |
| | | ROSTER NUMBER(S): |
| IF AT | LEAST (| ONE VEHICLE IN HOUSEHOLD, GO TO SECTION L. |
| | | |

IF NO VEHICLES, CONCLUDE INTERVIEW AND SEEK TO INTERVIEW ANY OTHER PERSONS IN THE HOUSEHOLD STILL NEEDING TO BE INTERVIEWED.

SECTION L - COLLECTION OF ODOMETER READINGS (ANY HOUSEHOLD MEMBER 18 OR OLDER)

1. In the packet we sent to (you/your household), there was a form to record the odometer reading(s) for your vehicle(s).

(Is the reading/Are any of the readings) available now?

{OD_READ1, OD_READ2, OD_MON1, OD_YEAR1, OD_MON2, OD_YEAR2}

- 1 YES
- 2 NO GO TO QUESTION 3
- 2. INTERVIEWER: RECORD ANY READINGS THAT ARE NOW AVAILABLE.

[CATI WILL DISPLAY ALL VEHICLES AND ODOMETER READINGS THAT HAVE BEEN RECORDED TO DATE. INTERVIEWER WILL SELECT APPROPRIATE VEHICLE AND ENTER ODOMETER MILEAGE AND DATE THE READING WAS RECORDED.]

CONCLUDE INTERVIEW AND SEEK TO INTERVIEW ANY OTHER PERSONS IN THE HOUSEHOLD STILL NEEDING TO BE INTERVIEWED.

3. When would be a good time to call back when the readings will be available?

SET CALLBACK

CONCLUDE INTERVIEW AND SEEK TO INTERVIEW ANY OTHER PERSONS IN THE HOUSEHOLD STILL NEEDING TO BE INTERVIEWED.

APPENDIX F SURVEY DOCUMENTS

This Appendix contains samples of the documents sent to the respondents, including:

Pre-Interview Letter

Cover letter sent with travel diaries

Travel diary

Reminder note for Travel Day

Odometer reading card.

The survey process is described in **Chapter 2** of this User's Guide.



Administration

Office of the Administrator

400 Severati St., S.W. Washington, D.C. 20590

Resident

Refer to: HPM-40

Dear Resident:

I am writing to ask your cooperation in a survey of the daily travel experiences of a representative sample of U.S. households. We at the U.S. Department of Transportation recognize that transportation is much more than streets and highways, public transit, walkways, bike paths, and carpool services. Transportation is really about your ability to get where you need to go, whether it is to work, school, shopping, or someplace else. Occasionally, we need to ask you about your daily travel so we can determine if we are moving in the right direction.

Our computer randomly selected your telephone number from all possible phone numbers in the U.S. We then obtained your address from the telephone directory in order to mail you this letter. Within a few weeks your household will be contacted and asked to provide information on your local and long distance travel for a single day. The interview will be conducted by telephone. The information you provide will be kept strictly confidential.

The survey is being conducted for the Department of Transportation by Research Triangle Institute (RTI), a not-for-profit research firm affiliated with Duke University, the University of North Carolina, and North Carolina State University. An interviewer from RTI will telephone you within the next few weeks. Your participation, while strictly voluntary, is extremely important in assessing the Nation's transportation needs. The survey results will be used to determine transportation patterns of the U.S. population and to project the amount and type of travel that will take place in the future.

If you have any questions or concerns, please contact Brett Anderson at RTI by calling 1-800-334-8571, ext. 6038 between the hours of 9 a.m. and 5 p.m. Eastern time. The project manager at the Federal Highway Administration is Susan Liss who can be reached at 1-800-307-8243 between the hours of 9 a.m. and 5 p.m. Eastern time. You may also leave a message for her after hours and she will return your call.

Thank you for your help.

Sincerely yours,

Rodney E. Slater

Federal Highway Administrator

Rodry E. El ster



Dear NPTS Household:

Recently you completed a telephone interview as part of the 1995 Nationwide Personal Transportation Survey (NPTS). As we discussed on the phone, this envelope contains a one-day diary for each member of your household who is 5 years old or older. We ask that each household member complete his or her own diary for the one day listed at the top of the form. Even though your household's travel on this day may be unusual for some reason, we still want to know about your trips on this particular day. If there are young children in your household, please have an adult household member who knows about the child's activities complete the diary. An example diary is enclosed. (If you should run out of space on the diary, please continue recording trips on the back or on a separate pieze of paper.) In appreciation of your help in our research, we have enclosed a two-dollar payment for each diary.

After your designated diary completion day, one of our professional telephone interviewers will call to collect the information and ask some additional transportation-related questions. We would like to talk with each person 14 or older individually and ask an adult to respond for younger household members.

If any vehicles were reported for your household, you will also find an Odometer Reading Form enclosed. By collecting edometer readings now and again in a few months, the Department of Transportation obtains accurate data on the miles vehicles are driven.

It may be helpful for household members to leave their completed diaries and the Odometer Reading Form by the telephone so they are available when our interviewer calls If you have any questions about completing your diary or collecting the odometer readings, please call Research Triangle Institute at 1-800-334-8571 between the hours of 9:00 am and 5:00 pm Eastern time and ask for Brett Anderson. Thank you in advance for your cooperation. Your participation is critical to the success of our study.

Sincerely,

R. Paul Moore, Project Director Nationwide Personal Transportation Survey

SPECIAL INSTRUCTIONS FOR HOUSEHOLDS WITH YOUNG CHILDREN

We have enclosed a travel diary for every member of your household 5 years old or older. We prefer that household members complete their own travel diary. However, we understand that this will not be possible in all cases. For households with young children please follow these guidelines:

- Children who are old enough to read and write may enjoy completing their own travel diary. With help from an adult household member it is perfectly acceptable for these children to complete their own diaries.
- For children who are not able to complete their own travel diaries, we ask that an adult household member who is knowledgeable about the child's activities complete the diary.
- Household members who report for children should use their best judgement to answer the detailed questions about trips made by the child.
- Remember to include trips made by the child which do not include other members of the household. Examples include: bus rides or walking to school, class trips, traveling to after school activities, and biking or walking to visit friends.

omplate one line below for each time you traveled from one place to another on your travel day.

Remember to record each <u>raturn</u> trip to home or work.
 Be <u>specific</u>. Record each place you went on a separate line, even if you stopped several places on one journey.
 The first trip should be the lirst place you traveled to after 4 a.m.

LABEL HERE

| _ | The last trip should be to your home, or wherever you ended the day | your home, or whe | rever you ended the day. | | | |
|--------------|---|--|---|--|---------------------------------------|---------------|
| | WHERE DID YOU GO? (home, bank, restaulast, work; friend's house; etc.) | WHAT TIME DIO YOU BEGIN YOUR TRIP? | HOW FAS DID YOU. TRAVEL TO GET THERE? 16 Blocks, 3 miles, etc.] | WHAT MEANS OF TRANSPORTATION DID YOU TO USE? (car, bus, subway, walk, bit, atc.) | HOW LONG DID IT TAKE TO GET THERE? | MAIO WAS WITH |
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GMB No. 2125-0545 E.



REMEMBER



Complete your diary for: Thursday September 14th











An RTI interviewer will call you within a few days to collect the diary information. If you have any questions in the meantime, you can call Brett Anderson

at 1-800-334-8571

between the hours of 9:00 am and 5:00 pm Eastern time.

ODOMETER READING FORM

1995 Nationwide Personal Transportation Survey

Please record the odometer (mileage) reading and the data of the reading for each vehicle and keep the form by your telephone so it will be available when our interviewer calls.

Please be sure to record the odometer reading which reflects the mileage for the entire life of the car, not the meter which can be manually reset to zero for specific trips or to calculate mileage per tank of gasoline. Also, please be sure <u>not</u> to record the last digit if it represents the tenth of the mile. For example, if the odometer reading is 60,551.3, record 60,551.

It is not necessary that adometer readings be taken on the same day that you complete your diary, but this may be a convenient way to make certain that the readings are made.

Thank you for your cooperation in this important part of the study.

| _ | |
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APPENDIX G ESTIMATING SAMPLING ERRORS

The final adjusted weights are used in calculating parameter estimates and their sample variances. RTI uses SUDAAN for these calculations. Variance estimation for the statistics computed in the SUDAAN series of procedures for survey data analysis is based on a first-order Taylor series approximation of the deviations of estimates from their expected values. This approximation for large samples is well-known (see Kendall and Stuart, 1961, p. 231). Woodruff (1971) presented applications of this technique to sample surveys. This method yields one of the best known numerical approximations currently available in the statistical literature for ratio estimates. The general approach taken to compute variances is to first form the Taylor series linearization for a particular statistic. These linearized values are referred to as Z_i for the i^{th} sample unit throughout this appendix. Once the linearized values are formed, they are substituted into the formula for computing the variance of a total estimate that is appropriate for the design.

Estimating the total number of individuals who belong to an arbitrarily defined domain or subpopulation provides a convenient example. Denote the total in question by \hat{N}_d , where d denotes the domain. Establish a domain indicator

$$I_{hijk} =$$
 $\begin{cases} 1 \text{ if the } k^{th} \text{ person is in the domain} \\ 0 \text{ if the } k^{th} \text{ person is not in the domain} \end{cases}$

where

h is the stratum, h = 1, ..., Hi is the i^{th} cluster, in stratum h, i=1, ..., n_h j is the j^{th} household in the cluster i in stratum h, j=1, ..., n_i k is the k^{th} person in the household; in cluster i in stratum h, k=1, ..., n_j

and w_{hiik} is the population weight for person k in household j in cluster i in stratum h.

Then,
$$z_{hijk} = I_{hijk} \cdot w_{hijk}$$

and the estimate of the domain total is

$$\hat{N}_d = \sum_h \sum_i \sum_i \sum_k z_{hijk}$$

and the variance of this estimate is
$$Var(z) = \sum_{h} n_{h} s_{h}^{2}$$

where

$$s_h^2 = \frac{\sum_i (z_{hi} - \bar{z}_h)^2}{n_h - 1}$$
, the stratum-level sum of squares,

with

$$z_{hi} = \sum_{j} \sum_{k} z_{hijk}$$
, the cluster-level sum,

and

$$\bar{z}_h = \frac{\displaystyle\sum_i z_{hi}}{n_h}$$
 , the stratum-level mean.

Other methods of obtaining the variance estimates could be used instead of the first order Taylor series linearizations. Examples include such pseudorandomization techniques as balanced repeated replications (BRR), jackknifing and boot-strapping. The Taylor series linearization is preferred by many because of its computational efficiency (generally less demanding of computer time).

The most commonly used statistical packages, such as SAS, BMDP, and SPSS, do <u>not</u> calculate standard errors of survey estimates accounting for complex sample designs. There are, however, several commercially available packages that can correctly calculate the standard errors for designs such as the one used in NPTS, among them are:

- Clusters (World Health Organization
- Osiris (University of Michigan)
- SUDAAN (RTI)
- Super Carp (Iowa State University)
- Wesvar Procedures (Westat)

Of these, all use Taylor series linearization except Wesvar, which uses BRR.

APPENDIX H NPTS DATA DICTIONARY

PURPOSE

The NPTS is a large, complex dataset, with hundreds of variables contained in six files. For ease in running tabulations and analyzing the data, a number of the variables are repeated on several files. The data dictionary contained in this Appendix is designed to assist the data user in finding the variables they need or in placing a variable in context when all that is known is the variable name.

The data dictionary is a consolidated list of all NPTS variables in alphabetic order by variable name. It contains much of the information that is in the Codebook, such as source of the data, variable type, variable length, a label describing the contents, and a indication of which file or files the variable is found on.

The attached is Courier font, 8 point, left justified.

NPTS Listing of All NPTS Variables By Alphabetical Order Public Use File

| | Item | 1990 | Target | Var | Var . | Var | | НН | Per | Veh | Seg | Tday | Tper |
|---------|-------|----------|----------|------|--------|-------|--|-----|-----|-----|-----|------|------|
| Section | ID | Var | Var | Type | Length | Width | Labels | Var | Var | Var | Var | Var | Var |
| F | 16 | N | ALWYSDRV | C | 2 | 2 | Always the driver? | N | Y | N | N | N | N |
| В | 7 | S | ANNMILES | N | 4 | 6 | Self-reported annualized vmt | N | N | Y | N | N | N |
| OAKR | * | * | ANNUALZD | N | 5 | 6 | Odometer-based annualized vmt | N | N | Ÿ | N | N | N |
| OAKR | * | * | ANN_EDIT | C | 2 | 2 | Flag any edits/adjustments to ANNUALZD | N | N | Ÿ | N | N | N |
| OAKR | * | * | ANN_FLG | Č | 2 | 2 | Reasons for missing ANNUALZD value | N | N | Ÿ | N | N | N |
| OAKR | * | * | ANN_OUT | C | 2 | 2 | Flag identifying ANNUALZD outlier values | N | N | Y | N | N | N |
| OAKR | * | * | ANULZDSE | N | 8 | 9.2 | Standard error of ANNUALZD estimate | N | N | Y | N | N | N |
| G | 18 | N | AWAYHOME | C | 2 | 2 | Reason started day away from home | N | N | N | N | Y | N |
| C | 2.2 | N | BUSBLOCK | N | 3 | 3 | Reported dist. to bus (blocks) | Y | N | N | N | N | N |
| C | 2.2 | N | BUSMILE | N | 3 | 3 | Reported dist. to bus (miles) | Y | N | N | N | N | N |
| C | 1 | N | BUS_AVL | C | 2 | 2 | Bus service available | Y | N | N | N | N | N |
| C | 2.1 | N | BUS_DIST | N | 8 | 5.1 | Distance to bus (miles) | Y | N | N | N | N | N |
| * | * | * | CALCDIST | N | 4 | 5 | Calculated distance home to destination | N | N | N | N | N | Y |
| * | * | S | CENSUS_D | C | 2 | 2 | Census division | Y | Y | Y | Y | Y | Y |
| * | * | S | CENSUS_R | C | 2 | 2 | Census region | Y | Y | Y | Y | Y | Y |
| G | * | N | CHAIN | N | 3 | 2 | Trip chain number for this person | N | N | N | N | Y | N |
| G | * | N | CHAINTRP | N | 3 | 2 | # of trip within chain | N | N | N | N | Y | N |
| H | 2 | S | COUNTRY | C | 3 | 3 | Destination country code | N | N | N | N | N | Y |
| G | * | N | DATEFLG | C | 2 | 1 | Intrv date imputed from trav date plus o | N | N | N | N | Y | N |
| G | 17.04 | S | DAYNIGHT | C | 2 | 2 | Trip started AM or PM G17A | N | N | N | N | Y | N |
| H | 2 | S | DESTSTAT | C | 2 | 2 | Destination state of travel period trip | N | N | N | N | N | Y |
| G | 9 | N | DIARYCMP | C | 2 | 2 | Who completed diary | N | Y | N | N | N | N |
| G | 11 | N | DIARYGET | C | 2 | 2 | Can get diary now | N | Y | N | N | N | N |
| G | 10 | N | DIARYHAV | C | 2 | 2 | Have the diary now | N | Y | N | N | N | N |
| G | * | S | DIFFDATE | N | 3 | 3 | Days between travel & interview dates | N | N | N | N | Y | N |
| F | 5.1 | N | DISTTOWK | N | 8 | 6.2 | One-way distance to work | N | Y | N | N | N | N |
| D | 9 | LIC_DRVR | DRIVER | C | 2 | 2 | Person is a driver D9 | N | Y | N | Y | Y | Y |
| D | * | S | DRVRCNT | N | 3 | 2 | Number of drivers in HH | Y | Y | Y | Y | Y | Y |
| G | 21&38 | S | DRVR_FLG | C | 2 | 2 | 1= person drove on trip | N | N | N | N | Y | N |
| * | * | * | DRVR_TPT | C | 2 | 2 | Person was the main driver on trip | N | N | N | N | N | Y |
| E | 1.D | N | DTACDT | C | 2 | 2 | Worry about traffic accident | N | Y | N | N | N | N |
| E | 1.AFK | N | DTCONJ | C | 2 | 2 | Highway congestion | N | Y | N | N | N | N |
| E | 1.J | N | DTCRIME | C | 2 | 2 | Worry about crimes against motorists | N | Y | N | N | N | N |
| E | 1.C | N | DTNTFMLR | C | 2 | 2 | Unfamiliar local areas or neighborhood | N | Y | N | N | N | N |
| E | 1.BL | N | DTPAVE | C | 2 | 2 | Rough pavement on highways | N | Y | N | N | N | N |
| E | 1.GN | N | DTPOLLTN | C | 2 | 2 | Air pollution by cars, trucks, and buses | N | Y | N | N | N | N |
| E | 1.IM | N | DTSTRTS | C | 2 | 2 | Rough pavement on neighborhood streets | N | Y | N | N | N | N |
| | | | | | | | | | | | | | |

Progid: disk2:[nsnpts.share]report.sas Date: 26SEP97

1990 Variable Names: N = No Comparable 1990 Variable S = Same Name in 1990

NPTS Listing of All NPTS Variables By Alphabetical Order Public Use File

| Section | Item ID | 1990 Var | Target Var | Var Type | Var Length | Var Width | Labels | HH Var | Per Var | Veh Var | Seg Var | Tday Var | Tper Var |
|---------|------------|-------------|---------------|-------------|---------------|--------------|--|-----------|------------|------------|------------|-------------|-------------|
| E | 1.HO | N | DTTIEUP | С | 2 | 2 | Traffic tie-ups or road construction | N | Y | N | N | N | N |
| E | 1.E | N | DTWALK | Ċ | 2 | 2 | Poor walkways or sidewalks | N | Y | N | N | N | N |
| G | 17 | N | DWELTIME | N | 4 | 4 | Time spent at destination of prev trip | N | N | N | N | Y | N |
| G | 22 | S | EDITMILE | C | 2 | 2 | 1= trip miles were edited | N | N | N | N | Ÿ | N |
| G | 25 | S | EDITMODE | Ċ | 2 | 2 | 1= transportation mode was edited | N | N | N | N | Ÿ | N |
| G | 40 | N | EDITNONH | Ċ | 2 | 2 | 1= variable NONHHCNT was edited | N | N | N | N | Ÿ | N |
| G | 27 | S | EDIT_MIN | Ċ | 2 | 2 | 1= trip duration was edited | N | N | N | N | Ÿ | N |
| F | 1 | S | EDUC | Ċ | 2 | 2 | Highest grade or yr of school completed | N | Y | N | N | N | N |
| E | 4 | N | FOSTBELT | C | 2 | 2 | How often wear seat belt when driving | N | Y | N | N | N | N |
| G | 16 | N | FROM_A | C | 1 | 1 | Where trip chain started (H,W,S) | N | N | N | N | Y | N |
| G | 19 | N | FRSTHM | C | 2 | 2 | 1=persons 1st trip began at home | N | N | N | N | Ÿ | N |
| GEOH | * | * | GHMXIN | N | 8 | 2 | Basis for geocoding - household | Y | N | N | N | N | N |
| F | 3 | N | GT1JBLWK | C | 2 | 2 | Have more than one job last week | N | Y | N | N | N | N |
| GEOW | * | * | GWKXIN | N | 8 | 2 | Basis for geocoding - workplace location | | Y | N | N | N | N |
| CLAR | * | * | HBHHSMLT | N | 4 | 3 | Percent multiple unit housing, BG | Y | N | N | N | N | N |
| CLAR | * | * | HBHHSOTH | N | 4 | 3 | Percent other housing, BG | Ÿ | N | N | N | N | N |
| CLAR | * | * | HBHHSSNG | N | 4 | 3 | Percent single family housing, BG | Ÿ | N | N | N | N | N |
| CLAR | * | * | HBHINCH | N | 4 | 3 | Percent HHs, income \$60000 and up, BG | Y | N | N | N | N | N |
| CLAR | * | * | HBHINCL | N | 4 | 3 | Percent HHs, income < \$15000, BG | Ÿ | N | N | N | N | N |
| CLAR | * | * | HBHINCM1 | N | 4 | 3 | Percent HHs, income \$15000-\$39999, BG | Y | N | N | N | N | N |
| CLAR | * | * | HBHINCM2 | N | 4 | 3 | Percent HHs, income \$40000-\$59999, BG | Y | N | N | N | N | N |
| CLAR | * | * | HBHINMED | N | 6 | 6 | Median household income, BG | Ÿ | Y | Y | N | Y | Y |
| CLAR | * | * | HBHMEDHS | N | 6 | 6 | Median housing unit value, BG | Ÿ | N | N | N | N | N |
| CLAR | * | * | HBHRECNT | N | 4 | 3 | Percent units built last 10 years, BG | Y | N | N | N | N | N |
| CLAR | * | * | HBHRESDN | N | 6 | 6 | HU density (units/square mile), BG | Y | Y | Y | N | Y | Y |
| CLAR | * | * | HBHTNOWN | N | 4 | 3 | Percent owner-occupied housing, BG | Y | N | N | N | N | N |
| CLAR | * | * | HBHTNRNT | N | 4 | 3 | Percent renter-occupied housing, BG | Y | N | N | N | N | N |
| CLAR | * | * | HBHUR | C | ī | ī | Urban/rural code, block group | Y | Y | Y | N | Y | Y |
| CLAR | * | * | HBP65P | N | 4 | 3 | Percent 65 & older, block group | Y | N | N | N | N | N |
| CLAR | * | * | HBPCOLGD | N | 4 | 3 | Pcnt Colg Grads(over 25), block group | Y | N | N | N | N | N |
| CLAR | * | * | HBPFORBN | N | 4 | 3 | Percent foreign born 1990, block group | Y | N | N | N | N | N |
| CLAR | * | * | HBPHISP | N | 4 | 3 | Percent Hispanic, block group | Y | N | N | N | N | N |
| CLAR | * | * | HBPHSGD | N | 4 | 3 | Pcnt HS grads (over 25), block group | Y | N | N | N | N | N |
| CLAR | * | * | HBPLTPOV | N | 4 | 3 | Percent families below poverty, blk grp | Y | N | N | N | N | N |
| CLAR | * | * | HBPPOPDN | N | 6 | 6 | Population density, block group | Y | Y | Y | N | Y | Y |
| CLAR | * | * | HBPPOPNO | N | 6 | 6 | Current population, block group | Y | N | N | N | N | N |
| CLAR | * | * | HBPRCAA | N | 4 | 3 | Percent African-Am., block group | Y | N | N | N | N | N |
| | | | | | - | - | | | | | | | |

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1990 Variable Names: N = No Comparable 1990 Variable S = Same Name in 1990

NPTS Listing of All NPTS Variables By Alphabetical Order Public Use File

| Section | Item ID | 1990 Var | Target Var | Var Type | Var Length | Var Width | Labels | HH Var | Per Var | Veh Var | Seg Var | Tday Var | Tper Var |
|--------------|------------|-------------|----------------------|-------------|---------------|--------------|--|-----------|------------|------------|------------|-------------|-------------|
| CT AD | * | * | TIDDDG A GM | NT. | 4 | 2 | Develope Develope Develope | 37 | NT | NT | NT. | NT | NT |
| CLAR CLAR | * | * | HBPRCASN HBPRCCAU | N N | 4 4 | 3 3 | Percent Asian- Am., block group Percent White, block group | Y Y | N N | N N | N N | N N | N N |
| CLAR | * | * | HBPRCOTH | N | 4 | 3 | Percent Other races, block group | Y | N | N | N | N N | N |
| * | * | SMSA | HHCMSA | C | 4 | <i>3</i> | CMSA identification code | v | Y | Y | Y | Y | Y |
| D | 3 | S | HHELGCNT | N | 3 | 2 | # of eligible persons in HH | Y | N | Y | N | N | N |
| K | 1 & 2 | S | HHFAMINC | C | 2 | 2 | HH family income category | Y | Y | Y | Y | Y | Y |
| G | 37 | S | HHMEMDRV | C | 2 | 2 | 1= household member drove G37 | N | N | N | N | Y | N |
| * | * | S | HHMSA | C | 4 | 4 | MSA identification code | Y | Y | Y | Y | Y | Y |
| D | 13 | N | HHRESP | C | 2 | 2 | HH respondent | v | Y | N | N | N | N |
| D | 1 | S | HHSIZE | N | 3 | 2 | Total number of persons in HH | V | Y | Y | Y | Y | Y |
| * | * | S | HHSTATE | C | 2 | 2 | State postal code | Ÿ | N | N | N | N | N |
| * | * | S | HHSTFIPS | N | 3 | 2 | State FIPS code | Ÿ | N | N | N | N | N |
| * | * | N | HHTRIPID | N | 3 | 3 | Trip number for household travel day | N | N | N | Y | Y | N |
| * | * | N | HHTRPID | N | 3 | 3 | Trip number for household travel period | N | N | N | N | N | Y |
| В | * | S | HHVEHCNT | N | 3 | 2 | No. of vehicles in household (derived) | Y | Y | Y | Y | Y | Ÿ |
| Ĉ | 3 | S | нн ото4 | N | 3 | 2 | Number of persons in HH age 0-4 | Ÿ | N | N | N | N | N |
| D | 5 | S | HH HISP | C | 2 | 2 | Hispanic status of ref. person | Ÿ | Y | Y | Y | Y | Y |
| G | 36 | S | HH ONTRP | N | 3 | 2 | # of HH members on the trip (derived) | N | N | N | N | Y | N |
| D | 6 | S | HH RACE | C | 2 | 2 | Race of reference person | Y | Y | Y | Y | Ÿ | Y |
| C | 8 | N | HOMEOWN | Č | 2 | 2 | Tenure of housing unit | Y | N | N | N | N | N |
| Ċ. | 6 | N | HOMETYPE | Č | 2 | 2 | Type of housing unit | Y | N | N | N | N | N |
| * | * | S | HOUSEID | N | 5 | 8 | Household identification number | Y | Y | Y | Y | Y | Y |
| G | 22.02 | N | HOWFARU | C | 2 | 2 | Units of reported dist: B)locks, M)iles | N | N | N | Y | Y | N |
| C | 7 | N | HSTORIES | C | 2 | 2 | Stories in apt. building | Y | N | N | N | N | N |
| CLAR | * | * | HTEEMPDN | N | 6 | 6 | Jobs per square mile, census tract | Y | N | N | N | N | N |
| CLAR | * | * | HTHHSMLT | N | 4 | 3 | Percent multiple unit housing, CT | Y | N | N | N | N | N |
| CLAR | * | * | HTHHSOTH | N | 4 | 3 | Percent other housing, CT | Y | N | N | N | N | N |
| CLAR | * | * | HTHHSSNG | N | 4 | 3 | Percent single family housing, CT | Y | N | N | N | N | N |
| CLAR | * | * | HTHINCH | N | 4 | 3 | Percent HHs, income \$60000 and up, CT | Y | N | N | N | N | N |
| CLAR | * | * | HTHINCL | N | 4 | 3 | Percent HHs, income < \$15000, CT | Y | N | N | N | N | N |
| CLAR | * | * | HTHINCM1 | N | 4 | 3 | Percent HHs, income \$15000-\$39999, CT | Y | N | N | N | N | N |
| CLAR | * | * | HTHINCM2 | N | 4 | 3 | Percent HHs, income \$40000-\$59999, CT | Y | N | N | N | N | N |
| CLAR | * | * | HTHINMED | N | 6 | 6 | Median household income, CT | Y | N | N | N | N | N |
| CLAR | * | * | HTHMEDHS | N | 6 | 6 | Median housing unit value, CT | Y | N | N | N | N | N |
| CLAR | * | * | HTHRECNT | N | 4 | 3 | Percent units built last 10 years, CT | Y | N | N | N | N | N |
| CLAR | * | * | HTHRESDN | N | 6 | 6 | HU density (units/square mile), CT | Y | N | N | N | N | N |
| CLAR | * | * | HTHTNOWN | N | 4 | 3 | Percent owner-occupied housing, CT | Y | N | N | N | N | N |

NPTS Listing of All NPTS Variables By Alphabetical Order Public Use File

| | Item | 1990 | Target | Var | Var | Var | | НН | Per | Veh | Seg | Tday | Tper |
|---------|-------|------|----------|------|--------|-------|--|-----|-----|-----|-----|------|------|
| Section | ID | Var | Var | Type | Length | Width | Labels | Var | Var | Var | Var | Var | Var |
| CLAR | * | * | HTHTNRNT | N | 4 | 3 | Percent renter-occupied housing, CT | Y | N | N | N | N | N |
| CLAR | * | * | HTHUR | С | 1 | 1 | Urban/rural code, census tract | Y | N | N | N | N | N |
| CLAR | * | * | HTINDRET | N | 4 | 3 | Pct 16+ workplace pop, retl trd ind, CT | Y | N | N | N | N | N |
| CLAR | * | * | HTP65P | N | 4 | 3 | Percent 65 & older, census tract | Y | N | N | N | N | N |
| CLAR | * | * | HTPCOLGD | N | 4 | 3 | Pcnt Colq Grads(over 25), census tract | Y | N | N | N | N | N |
| CLAR | * | * | HTPFORBN | N | 4 | 3 | Percent foreign born 1990, census tract | Y | N | N | N | N | N |
| CLAR | * | * | HTPHISP | N | 4 | 3 | Percent Hispanic, census tract | Y | N | N | N | N | N |
| CLAR | * | * | HTPHSGD | N | 4 | 3 | Pcnt HS grads (over 25), census tract | Y | N | N | N | N | N |
| CLAR | * | * | HTPLTPOV | N | 4 | 3 | Percent families below poverty, cen. tr. | Y | N | N | N | N | N |
| CLAR | * | * | HTPPOPDN | N | 6 | 6 | Population density, census tract | Y | N | N | N | N | N |
| CLAR | * | * | HTPPOPNO | N | 6 | 6 | Current population, census tract | Y | N | N | N | N | N |
| CLAR | * | * | HTPRCAA | N | 4 | 3 | Percent African-Am., census tract | Y | N | N | N | N | N |
| CLAR | * | * | HTPRCASN | N | 4 | 3 | Percent Asian- Am., census tract | Y | N | N | N | N | N |
| CLAR | * | * | HTPRCCAU | N | 4 | 3 | Percent White, census tract | Y | N | N | N | N | N |
| CLAR | * | * | HTPRCOTH | N | 4 | 3 | Percent Other races, census tract | Y | N | N | N | N | N |
| C | 3 | S | INELGCNT | N | 3 | 2 | # of ineligible persons in HH | Y | N | N | N | N | N |
| * | * | S | INTRVMON | N | 3 | 2 | Person interview date - month | N | Y | N | N | Y | N |
| * | * | S | INTRVYR | N | 3 | 2 | Person interview date - year | N | Y | N | N | Y | N |
| F | 2 | N | JOBLSTWK | C | 2 | 2 | Have full, part time job last wk or not | N | Y | N | N | N | N |
| D | 3 | S | LIF_CYC | C | 2 | 2 | Family life cycle | Y | Y | Y | Y | Y | Y |
| D | 14 | S | MAINDRVR | C | 2 | 2 | Does one HH mem. usually drive this veh | N | N | Y | N | N | N |
| В | 1 | S | MAKECODE | C | 2 | 2 | First 2 char of NASS code | N | N | Y | N | N | N |
| G | 17.05 | N | MATCH | N | 3 | 3 | ID of matching prev. reported trip | N | N | N | N | Y | N |
| В | 7 | S | MILELIMT | C | 2 | 2 | =1 if annmiles capped at 115K | N | N | Y | N | N | N |
| В | 1 | S | MODLCODE | C | 3 | 3 | Last 3 char of NASS code | N | N | Y | N | N | N |
| * | * | S | MSASIZE | C | 2 | 2 | Size of MSA of household | Y | Y | Y | Y | Y | Y |
| * | * | S | MSTR_MON | N | 3 | 2 | Date of master interview - month | Y | Y | Y | N | Y | Y |
| * | * | S | MSTR_YR | N | 3 | 2 | Date of master interview - year | Y | Y | Y | N | Y | Y |
| F | 17.11 | N | NCCOMCR | C | 2 | 2 | Not carpool-have company car | N | Y | N | N | N | N |
| F | 17.03 | N | NCINCVNT | C | 2 | 2 | Not carpool-it's inconvenient | N | Y | N | N | N | N |
| F | 17.01 | N | NCIRRHR | C | 2 | 2 | Not carpool-irregular/unusual hours | N | Y | N | N | N | N |
| F | 17.1 | N | NCLVFAR | C | 2 | 2 | Not carpool-live far from work | N | Y | N | N | N | N |
| F | 17.04 | N | NCNEEDCR | C | 2 | 2 | Not carpool-need car at/bfr/aft work | N | Y | N | N | N | N |
| F | 17.08 | N | NCNEVER | C | 2 | 2 | Not carpool-never thought of it | N | Y | N | N | N | N |
| F | 17.09 | N | NCNLIKE | C | 2 | 2 | Not carpool-don't like to do it | N | Y | N | N | N | N |
| F | 17.02 | N | NCNOONE | C | 2 | 2 | Not carpool-no one to carpool with | N | Y | N | N | N | N |
| F | 17.07 | N | NCONLY | C | 2 | 2 | Not carpool-only one works there | N | Y | N | N | N | N |

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|---------|------------|-------------|---------------|-------------|---------------|--------------|--|-----------|------------|------------|------------|-------------|-------------|
| _ | 18.06 | | | ~ | | 0 | 2 1 | | | | | | |
| F | 17.06 | N | NCOTHRES | C | 2 | 2 | Not carpool-other reasons | N | Y | N | N | N | N |
| F | 17.05 | N | NCSHRTDI | C | 2 | 2 | Not carpool-short distance/unnecessary | N | Y | N | N | N | N |
| K | 10 | S | NONFMFLG | C | 2 | 2 | Non-family income reported for HH | Y | N | N | N | N | N |
| I | 1 & 2 | S | NONFMINC | C | 2 | 2 | Individual income category | N | Y | N | N | N | N |
| G | 39 | S | NONHHACC | C | 2 | 2 | 1= non-HH members on trip | N | N | N | N | Y | N |
| G | 40 | S | NONHHCNT | N | 3 | 3 | # of non-HH members on trip | N | N | N | N | Y | N |
| J | 5 | N | NOTELWKS | C | 2 | 2 | No. of weeks w/o telephone service | Y | N | N | N | N | N |
| J | 4 | N | NOTELYR | C | 2 | 2 | Without telephone service in past year? | Y | N | N | N | N | N |
| F | 18.03 | N | NPT2EXPV | C | 2 | 2 | Public transp. too expensive | N | Y | N | N | N | N |
| F | 18.01 | N | NPT2FRWK | C | 2 | 2 | Public trans. not available at work | N | Y | N | N | N | N |
| F | 18.02 | N | NPT2MCTM | C | 2 | 2 | Public trans. takes too much time | N | Y | N | N | N | N |
| F | 18.11 | N | NPTCOMCR | C | 2 | 2 | Not used public trans. have com car | N | Y | N | N | N | N |
| F | 18.09 | N | NPTDLPT | C | 2 | 2 | Not used public trans. dont like to | N | Y | N | N | N | N |
| F | 18.06 | N | NPTFMHM | C | 2 | 2 | Public trans. stops too far from home | N | Y | N | N | N | N |
| F | 18.1 | N | NPTHVCAR | C | 2 | 2 | Not used public trans. have onw car | N | Y | N | N | N | N |
| F | 18.08 | N | NPTLVCLS | C | 2 | 2 | Not used public trans. short distance | N | Y | N | N | N | N |
| F | 18.05 | N | NPTNTCNV | C | 2 | 2 | Public trans. schedule not convenient | N | Y | N | N | N | N |
| F | 18.07 | N | NPTOTHER | C | 2 | 2 | Not used public trans. for other reasons | N | Y | N | N | N | N |
| F | 18.04 | N | NPTOTHTG | C | 2 | 2 | Need own vehicle to do other things | N | Y | N | N | N | N |
| E | 5.05 | N | NSBBACK | C | 2 | 2 | Not wear seat belt when in back seat | N | Y | N | N | N | N |
| E | 5.02 | N | NSBBROKE | C | 2 | 2 | Not wear seat belt when broken/unavail | N | Y | N | N | N | N |
| E | 5.07 | N | NSBDRVR | C | 2 | 2 | Not wear seat belt when driver | N | Y | N | N | N | N |
| E | 5.01 | N | NSBFGET | C | 2 | 2 | Not wear seat belt when forget | N | Y | N | N | N | N |
| E | 5.12 | N | NSBHURRY | C | 2 | 2 | Not wear seat belt when in a hurry | N | Y | N | N | N | N |
| E | 5.04 | N | NSBLONG | C | 2 | 2 | Not wear seat belt when taking long trip | N | Y | N | N | N | N |
| E | 5.15 | N | NSBMED | C | 2 | 2 | Not wear seat belt: medical reasons | N | Y | N | N | N | N |
| E | 5.16 | N | NSBNLIKE | C | 2 | 2 | Not wear seat belt: don't like to | N | Y | N | N | N | N |
| E | 5.14 | N | NSBNOASK | C | 2 | 2 | Not wear seat belt when not asked | N | Y | N | N | N | N |
| E | 5.11 | N | NSBOTHER | C | 2 | 2 | Not wear seat belt: other specify | N | Y | N | N | N | N |
| E | 5.18 | N | NSBPOLIC | Č | 2 | 2 | Not wear seat belt when police not aroun | N | Ÿ | N | N | N | N |
| E | 5.06 | N | NSBPSNG | Ċ | 2 | 2 | Not wear seat belt when passenger | N | Ÿ | N | N | N | N |
| E | 5.03 | N | NSBSHORT | Ċ | 2 | 2 | Not wear seat belt when short trips | N | Ÿ | N | N | N | N |
| E | 5.13 | N | NSBSPCLH | Č | 2 | 2 | Not wear seat belt w/ certain clothes | N | Ÿ | N | N | N | N |
| E | 5.1 | N | NSBSPPER | C | 2 | 2 | | N | Ÿ | N | N | N | N |
| г г | 5.08 | N | NSBSPVEH | C | 2 | 2 | Not wear seat belt when in a certain veh | | Y | N | N | N | N |
| E | 5.09 | N | NSBTOWN | C | 2 | 2 | Not wear seat belt when in town/city | N | Y | N | N | N | N |
| E | 5.17 | N | NSBTOWN | C | 2 | 2 | Not wear seat belt when going to work | N | Y | N | N | N | N |
| 11 | J. 1 | TA | MAMOTORIA | _ | 4 | 4 | NOT WEAT BEAT DETT WHEH GOTHE TO WOLK | TA | 1 | IA | IA | TA | IA |

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| Section | Item ID | 1990 Var | Target Var | Var Type | Var Length | Var Width | Labels | HH Var | Per Var | Veh Var | Seg Var | Tday Var | Tper Var |
|---------|------------|-------------|---------------|-------------|---------------|--------------|--|-----------|------------|------------|------------|-------------|-------------|
| | | | | | _ | | | | | | | | |
| E | 5.19 | N | NSBWTHR | C | 2 | 2 | Not wear seat belt when good weather | N | Y | N | N | N | N |
| D | 3 | S | NUMADLT | N | 3 | 2 | # of adults in HH | Y | N | N | N | N | N |
| G | 36&40 | S | NUMONTRP | N | 3 | 3 | Total # of persons on trip (derived) | N | N | N | N | Y | N |
| * | * | N | OD_DAY1 | N | 3 | 2 | Date of first odometer reading - day | N | N | Y | N | N | N |
| * | * | N | OD_DAY2 | N | 3 | 2 | Date of second odomete reading - day | N | N | Y | N | N | N |
| * | * | N | OD_MON1 | N | 3 | 2 | Date of first odometer reading - month | N | N | Y | N | N | N |
| * | | N | OD_MON2 | N | 3 | 2 | Date of second odomete reading - month | N | N | Y | N | N | N |
| * | * | N | OD_READ1 | N | 4 | 6 | First odometer reading | N | N | Y | N | N | N |
| * | * | N | OD_READ2 | N | 4 | 6 | Second odometer reading | N | N | Y | N | N | N |
| * | * | N | OD_YR1 | N | 3 | 2 | Date of first odometer reading - year | N | N | Y | N | N | N |
| * | * | N | OD_YR2 | N | 3 | 2 | Date of second odomete reading - year | N | N | Y | N | N | N |
| С | 3 | N | OTHERPTR | C | 2 | 2 | Other public transit available | Y | N | N | N | N | N |
| G | 14 | N | OUTCNTRY | C | 2 | 2 | Out of country | N | Y | N | N | N | N |
| H | 5 | S | OVERLAP | C | 1 | 2 | =1 if trip part of travel period trip | N | N | N | N | Y | N |
| D | 3 | N | P10_AGE | N | 3 | 3 | Age of person 10 | Y | N | N | N | N | N |
| D | 9 | N | P10_DRVR | C | 2 | 2 | Driver status of person 10 | Y | N | N | N | N | N |
| D | 7 | N | P10_REL | C | 2 | 2 | Person 10 relation to ref. person | Y | N | N | N | N | N |
| D | 4 | N | P10_SEX | C | 2 | 2 | Sex of person 10 | Y | N | N | N | N | N |
| * | * | N | P10_STAT | C | 2 | 2 | Response status of person 10 | Y | N | N | N | N | N |
| D | 12 | N | P10_WKR | C | 2 | 2 | Worker status of person 10 | Y | N | N | N | N | N |
| D | 3 | N | P1_AGE | N | 3 | 3 | Age of person 1 | Y | N | N | N | N | N |
| D | 9 | N | P1_DRVR | C | 2 | 2 | Driver status of person 1 | Y | N | N | N | N | N |
| D | 7 | N | P1_REL | C | 2 | 2 | Person 1 relation to ref. person | Y | N | N | N | N | N |
| D | 4 | N | P1_SEX | C | 2 | 2 | Sex of person 1 | Y | N | N | N | N | N |
| * | * | N | P1_STAT | C | 2 | 2 | Response status of person 1 | Y | N | N | N | N | N |
| D | 12 | N | P1 WKR | C | 2 | 2 | Worker status of person1 | Y | N | N | N | N | N |
| D | 3 | N | P2_AGE | N | 3 | 3 | Age of person 2 | Y | N | N | N | N | N |
| D | 9 | N | P2_DRVR | C | 2 | 2 | Driver status of person 2 | Y | N | N | N | N | N |
| D | 7 | N | P2 REL | C | 2 | 2 | Person 2 relation to ref. person | Y | N | N | N | N | N |
| D | 4 | N | P2_SEX | C | 2 | 2 | Sex of person 2 | Y | N | N | N | N | N |
| * | * | N | P2_STAT | C | 2 | 2 | Response status of person 2 | Y | N | N | N | N | N |
| D | 12 | N | P2_WKR | C | 2 | 2 | Worker status of person 2 | Y | N | N | N | N | N |
| D | 3 | N | P3_AGE | N | 3 | 3 | Age of person 3 | Y | N | N | N | N | N |
| D | 9 | N | P3_DRVR | C | 2 | 2 | Driver status of person 3 | Y | N | N | N | N | N |
| D | 7 | N | P3_REL | Ċ | 2 | 2 | Person 3 relation to ref. person | Y | N | N | N | N | N |
| D | 4 | N | P3 SEX | Ċ | 2 | 2 | Sex of person 3 | Ÿ | N | N | N | N | N |
| * | * | N | P3_STAT | C | 2 | 2 | Response status of person 3 | Ÿ | N | N | N | N | N |
| | | | - 5_5 | _ | - | - | | - | | | | | |

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|---------|------------|-------------|---------------|-------------|---------------|--------------|----------------------------------|-----------|------------|------------|------------|-------------|-------------|
| D | 12 | N | P3_WKR | С | 2 | 2 | Worker status of person 3 | Y | N | N | N | N | N |
| D | 3 | N | P4_AGE | N | 3 | 3 | Age of person 4 | Y | N | N | N | N | N |
| D | 9 | N | P4_DRVR | C | 2 | 2 | Driver status of person 4 | Y | N | N | N | N | N |
| D | 7 | N | P4 REL | C | 2 | 2 | Person 4 relation to ref. person | Y | N | N | N | N | N |
| D | 4 | N | P4_SEX | C | 2 | 2 | Sex of person 4 | Y | N | N | N | N | N |
| * | * | N | P4_STAT | C | 2 | 2 | Response status of person 4 | Y | N | N | N | N | N |
| D | 12 | N | P4_WKR | C | 2 | 2 | Worker status of person 4 | Y | N | N | N | N | N |
| D | 3 | N | P5_AGE | N | 3 | 3 | Age of person 5 | Y | N | N | N | N | N |
| D | 9 | N | P5_DRVR | C | 2 | 2 | Driver status of person 5 | Y | N | N | N | N | N |
| D | 7 | N | P5_REL | C | 2 | 2 | Person 5 relation to ref. person | Y | N | N | N | N | N |
| D | 4 | N | P5_SEX | C | 2 | 2 | Sex of person 5 | Y | N | N | N | N | N |
| * | * | N | P5_STAT | C | 2 | 2 | Response status of person 5 | Y | N | N | N | N | N |
| D | 12 | N | P5_WKR | C | 2 | 2 | Worker status of person 5 | Y | N | N | N | N | N |
| D | 3 | N | P6_AGE | N | 3 | 3 | Age of person 6 | Y | N | N | N | N | N |
| D | 9 | N | P6_DRVR | C | 2 | 2 | Driver status of person 6 | Y | N | N | N | N | N |
| D | 7 | N | P6_REL | C | 2 | 2 | Person 6 relation to ref. person | Y | N | N | N | N | N |
| D | 4 | N | P6_SEX | C | 2 | 2 | Sex of person 6 | Y | N | N | N | N | N |
| * | * | N | P6_STAT | C | 2 | 2 | Response status of person 6 | Y | N | N | N | N | N |
| * | * | N | P6_WKR | C | 2 | 2 | Worker status of person 6 | Y | N | N | N | N | N |
| D | 3 | N | P7_AGE | N | 3 | 3 | Age of person 7 | Y | N | N | N | N | N |
| D | 9 | N | P7_DRVR | C | 2 | 2 | Driver status of person 7 | Y | N | N | N | N | N |
| D | 7 | N | P7_REL | C | 2 | 2 | Person 7 relation to ref. person | Y | N | N | N | N | N |
| D | 4 | N | P7_SEX | C | 2 | 2 | Sex of person 7 | Y | N | N | N | N | N |
| * | * | N | P7_STAT | C | 2 | 2 | Response status of person 7 | Y | N | N | N | N | N |
| D | 12 | N | P7_WKR | C | 2 | 2 | Worker status of person 7 | Y | N | N | N | N | N |
| D | 3 | N | P8_AGE | N | 3 | 3 | Age of person 8 | Y | N | N | N | N | N |
| D | 9 | N | P8_DRVR | C | 2 | 2 | Driver status of person 8 | Y | N | N | N | N | N |
| D | 7 | N | P8_REL | C | 2 | 2 | Person 8 relation to ref. person | Y | N | N | N | N | N |
| D | 4 | N | P8_SEX | C | 2 | 2 | Sex of person 8 | Y | N | N | N | N | N |
| * | * | N | P8_STAT | C | 2 | 2 | Response status of person 8 | Y | N | N | N | N | N |
| * | * | N | P8_WKR | C | 2 | 2 | Worker status of person 8 | Y | N | N | N | N | N |
| D | 3 | N | P9_AGE | N | 3 | 3 | Age of person 9 | Y | N | N | N | N | N |
| D | 9 | N | P9_DRVR | C | 2 | 2 | Driver status of person 9 | Y | N | N | N | N | N |
| D | 7 | N | P9_REL | C | 2 | 2 | Person 9 relation to ref. person | Y | N | N | N | N | N |
| D | 4 | N | P9_SEX | C | 2 | 2 | Sex of person 9 | Y | N | N | N | N | N |
| * | * | N | P9_STAT | C | 2 | 2 | Response status of person 9 | Y | N | N | N | N | N |
| D | 12 | N | P9_WKR | C | 2 | 2 | Worker status of person 9 | Y | N | N | N | N | N |

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| Section | Item ID | 1990 Var | Target Var | Var Type | Var Length | Var Width | Labels | HH Var | Per Var | Veh Var | Seg Var | Tday Var | Tper Var |
|---------|------------|-------------|---------------|-------------|---------------|--------------|--|-----------|------------|------------|------------|-------------|-------------|
| F | 14.1 | S | PARKAMNT | N | 8 | 7.2 | Parking fee to pay at work | N | Y | N | N | N | N |
| F | 14.2 | S | PARKCODE | C | 2 | 2 | Unit of amount paid for parking at work | | Y | N | N | N | N |
| G | 21 | S | PASSPURP | C | 2 | 2 | Trip purpose for passenger | N | N | N | N | Y | N |
| F | 13 | S | PAYTOPRK | C | 2 | 2 | Pay parking at work? | N | Y | N | N | N | N |
| * | * | S | PERSONID | N | 3 | 2 | Person ID number | N | Y | N | Y | Y | Y |
| G | 17 | N | PREVREP | C | | 2 | This trip also reported by other HH mem | | N | N | N | Ÿ | N |
| * | * | H PROXY | PROXY | C | 2 2 | 2 | Proxy respondent for person data | N | Y | N | Y | Ÿ | Y |
| E | 3.I | N | PTCARND | Ċ | 2 | 2 | Having access to a car when you need it | N | Ÿ | N | N | N | N |
| E | 3.G | N | PTCOST | C | 2 | 2 | · · · · · · · · · · · · · · · · · · · | N | Y | N | N | N | N |
| Ē | 3.C | N | PTCRIME | C | 2 | 2 | | N | Y | N | N | N | N |
| E | 3.AF | N | PTCROWD | Ċ | 2 | 2 | Difficulty w/ crowding or getting a seat | | Y | N | N | N | N |
| Ē | 3.D | N | PTNTCLN | Ċ | 2 | 2 | Transit stations/vehicles not clean | N | Ÿ | N | N | N | N |
| Ē | 3.BJ | N | PTTIMEON | Ċ | 2 | 2 | Time spent on public transportation | N | Ÿ | N | N | N | N |
| E | 3.H | N | PTTMND | Č | 2 | 2 | Public transp avail time of day needed | N | Ÿ | N | N | N | N |
| E | 3.E | N | PTTRANSF | Č | 2 | 2 | Time and aggrevation with transferes | N | Y | N | N | N | N |
| E | 2 | N | PTUSED | Č | 2 | 2 | How often used public transportation | N | Y | N | N | N | N |
| G | 25.CK | S | PUBTRANS | C | 2 | 2 | Used public transit (8 <trptrans<14)< td=""><td>N</td><td>N</td><td>N</td><td>N</td><td>Y</td><td>N</td></trptrans<14)<> | N | N | N | N | Y | N |
| В | 5 | N | PURCHMON | N | 3 | 2 | Month of purchase | N | N | Y | N | N | N |
| В | 5 | N | PURCHYR | N | 4 | 4 | Year vehicle was purchas (yyyy) | N | N | Ÿ | N | N | N |
| * | * | N | RAIL | C | 2 | 2 | Presence/absence of rail | Y | Y | Ÿ | Y | Y | Y |
| D | 3 | S | REF_AGE | N | 3 | 3 | Age of reference person (yr) | Y | Y | N | N | Y | N |
| D | 9 | N | REF_DRVR | C | 2 | 2 | Driver status of reference person | Y | N | N | N | N | N |
| F | 1 | S | REF EDUC | C | 2 | 2 | Education of HH reference person | Y | Y | N | N | Y | N |
| A | 2 | N | REF_ROST | N | 3 | 2 | Reference roster number | N | Y | N | N | N | N |
| D | 4 | S | REF_SEX | C | 2 | 2 | Sex of ref person | Y | Y | N | N | Y | N |
| * | * | N | REF STAT | C | 2 2 | 2 | Response status of reference person | Y | N | N | N | N | N |
| D | 10 | N | REF WKR | C | 2 | 2 | Worker status of reference person | Y | N | N | N | N | N |
| * | * | S | RESP CNT | N | 3 | 2 | # of respondents in HH | Y | N | N | N | N | N |
| H | 3 | S | RET_MON | C | 2 | 2 | Return month of travel period trip | N | N | N | N | N | Y |
| H | 3 | S | RET_YR | C | 2 | 2 | Return year of travel period trip | N | N | N | N | N | Y |
| D | 3 | S | R_AGE | N | 3 | 3 | Age of sample person | N | Y | N | Y | Y | Y |
| * | * | N | R AGEFLG | C | 2 | 2 | Age imputed | N | Y | N | N | N | N |
| D | 7 | S | R_RELAT | C | 2 | 2 | Relationship to ref person | N | Y | N | N | N | N |
| D | 4 | S | R_SEX | C | 2 | 2 | Sex of sample person | N | Y | N | Y | Y | Y |
| G | 13 | N | SAMEPLC | C | 2 | 2 | Same place all day | N | Y | N | N | N | N |
| G | 29.01 | S | SEG1TIME | N | 4 | 4 | Start time for segment 1 | N | N | N | Y | N | N |
| G | 28.01 | S | SEG1TRAN | C | 2 | 2 | Mode code for segment 1 | N | N | N | Y | N | N |
| | | | | | | | _ | | | | | | |

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|---------|------------|-------------|---------------|-------------|---------------|--------------|--|-----------|------------|------------|------------|-------------|-------------|
| | | | | | | | | | | | | | |
| G | 30.01 | S | SEG1_MIN | N | 4 | 4 | Duration of segment 1 (min) | N | N | N | Y | N | N |
| G | 29.02 | S | SEG2TIME | N | 4 | 4 | Start time for segment 2 | N | N | N | Y | N | N |
| G | 28.02 | S | SEG2TRAN | C | 2 | 2 | Mode code for segment 2 | N | N | N | Y | N | N |
| G | 30.02 | S | SEG2_MIN | N | 4 | 4 | Duration of segment 2 (min) | N | N | N | Y | N | N |
| G | 29.03 | S | SEG3TIME | N | 4 | 4 | Start time for segment 3 | N | N | N | Y | N | N |
| G | 28.03 | S | SEG3TRAN | C | 2 | 2 | Mode code for segment 3 | N | N | N | Y | N | N |
| G | 30.03 | S | SEG3_MIN | N | 4 | 4 | Duration of segment 3 (min) | N | N | N | Y | N | N |
| G | 29.04 | S | SEG4TIME | N | 4 | 4 | Start time for segment 4 | N | N | N | Y | N | N |
| G | 28.04 | S | SEG4TRAN | C | 2 | 2 | Mode code for segment 4 | N | N | N | Y | N | N |
| G | 30.04 | S | SEG4_MIN | N | 4 | 4 | Duration of segment 4 (min) | N | N | N | Y | N | N |
| G | * | S | SEGMENTD | C | 2 | 2 | 1= if trip is segmented | N | N | N | N | Y | N |
| * | * | N | SEGNUM | C | 1 | 1 | Number of segments (derived) | N | N | N | Y | N | N |
| F | 12.1 | N | SIT2AMTR | C | 2 | 2 | Usually sit or stand most on AMTRAK | N | Y | N | N | N | N |
| F | 12.2 | N | SIT2BUS | C | 2 | 2 | Usually sit or stand most on bus | N | Y | N | N | N | N |
| F | 12.3 | N | SIT2SBWY | C | 2 | 2 | Usually sit or stand most on subway | N | Y | N | N | N | N |
| F | 12.4 | N | SIT2STCR | C | 2 | 2 | Usually sit/stand most on strcr/trolley | N | Y | N | N | N | N |
| F | 12.5 | N | SIT2TRAN | C | 2 | 2 | Usually sit or stand most on comm train | N | Y | N | N | N | N |
| F | 11.1 | N | SITAMTR | C | 2 | 2 | Usually sit, stand or both on AMTRAK | N | Y | N | N | N | N |
| F | 11.2 | N | SITBUS | C | 2 | 2 | Usually sit, stand or both on bus | N | Y | N | N | N | N |
| G | 33 | S | SITMOST | C | 2 | 2 | Sit or stand most on trip | N | N | N | N | Y | N |
| F | 11.3 | N | SITSBWY | C | 2 | 2 | Usually sit/stand/both on rail/subway | N | Y | N | N | N | N |
| F | 11.4 | N | SITSTCR | C | 2 | 2 | Usually sit/stand/both on strtcr/trolley | N | Y | N | N | N | N |
| F | 11.5 | N | SITTRAN | C | 2 | 2 | Usually sit/stand/both on commuter train | | Y | N | N | N | N |
| G | 32 | S | STANDSIT | C | 2 | 2 | 1=sat, 2=stood, 3=both on trip | N | N | N | N | Y | N |
| C | 5 | N | STCBLOCK | N | 3 | 3 | Reported dist to streetcar (blocks) | Y | N | N | N | N | N |
| С | 5 | N | STCMILE | N | 3 | 3 | Reported dist to streetcar (miles) | Y | N | N | N | N | N |
| Ċ | 4 | N | STC AVL | C | 2 | 2 | Streetcar service available | Y | N | N | N | N | N |
| Ċ | 5 | N | STC DIST | N | 8 | 5.1 | Distance to streetcar (miles) | Y | N | N | N | N | N |
| G | 15&17 | S | STRTTIME | N | 4 | 4 | Start time of trip | N | N | N | Y | Y | N |
| Č | 5 | N | SUBBLOCK | N | 3 | 3 | Reported dist to subway (blocks) | Y | N | N | N | N | N |
| C | 5 | N | SUBMILE | N | 3 | 3 | Reported dist to subway (miles) | Ÿ | N | N | N | N | N |
| * | * | * | SUBSTRAT | N | 3 | 1 | Substratum within VARSTRAT | Ÿ | Y | Y | Y | Y | Y |
| С | 4 | N | SUB_AVL | C | 2 | 2 | 01= if subway service is available | Ÿ | N | N | N | N | N |
| C | 5 | N | SUB_DIST | N | 8 | 5.1 | Distance to subway | Ÿ | N | N | N | N | N |
| * | * | N | SUM_STAT | C | 3 | 3 | Summary status code for household | Y | N | Y | N | N | Y |
| * | * | S | TDAY_MON | N | 3 | 2 | Travel day date (MM) | Y | Y | Y | Y | Y | Y |
| * | * | S | TDAY_YR | N | 3 | 2 | Travel day date (YY) | Y | Y | Y | Y | Y | Y |
| | | S | IDVI_IV | TA | 3 | 4 | ITAVET day date (II) | 1 | 1 | 1 | 1 | 1 | 1 |

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| Section | Item ID | 1990 Var | Target Var | Var Type | Var Length | Var Width | Labels | HH Var | Per Var | Veh Var | Seg Var | Tday Var | Tper Var |
|---------|------------|-------------|---------------|-------------|---------------|--------------|--|-----------|------------|------------|------------|-------------|-------------|
| - | 2 | | | a | 0 | 0 | No. of all and a place of a TIV | | | | 3.7 | 3.7 | |
| J | 3 | N N | TELNUMCT | C C | 2 | 2 | No. of phone numbers in HH No. of HHs this phone number serves | Y Y | N N | N N | N N | N N | N N |
| A F | , | | TEL_HHS | | 3 | 4 | | _ | | N N | | | |
| r F | 0 | N | TIMELEAV | N | 3 | 3 | Time usually leave for work Minutes it took from home to work | N N | Y Y | N N | N N | N N | N |
| _ | 7 | N N | TIMETOWK | N | 2 | 2 | | | Y N | N N | N | | N Y |
| H | 6 | N S | TOWHYPAS | C C | 2 | 2 | Trip purpose for passenger | N N | N N | N N | N | N N | Y Y |
| H | • | | TOWHYTRP | | 1 | ∠ 1 | Trip purpose travel period trip | | N N | N N | | | |
| G | 16 | N | TO_B | C | | 1 | Where trip chain ended | N | | | N | Y | N |
| H | 8 | N | TO_TRANS | C | 2 | 2 | Main transporation means - period trip | N | N | N | N | N | Y |
| * | * | S | TPER_BMO | N | 3 | 2 | Travel period beginning date (MM) | Y | N | N | N | N | Y |
| * | * | S | TPER_BYR | N | 3 | 2 | Travel period beginning date (YY) | Y | N | N | N | N | Y |
| * | * | S | TPER_EMO | N | 3 | 2 | Travel period ending date (MM) | Y | N | N | N | N | Y |
| * | * | S | TPER_EYR | N | 3 | 2 | Travel period ending date (YY) | Y | N | N | N | N | Y |
| G | 26 | S | TRANSFER | C | 2 | 2 | =01 if changed mode from/to pub trans | N | N | N | Y | Y | N |
| * | * | S | TRAVDAY | N | 3 | 2 | Travel day - day of week | N | N | N | N | Y | N |
| * | * | S | TRAVWKND | C | 2 | 2 | Travel day on weekend (1=Y, 2=N) | N | N | N | N | Y | N |
| H | * | S | TRIPNUM | N | 3 | 2 | Persons travel period trip number | N | N | N | N | N | Y |
| C | 5 | N | TRNBLOCK | N | 3 | 3 | Reported dist to train (blocks) | Y | N | N | N | N | N |
| C | 5 | N | TRNMILE | N | 3 | 3 | Reported dist to train (miles) | Y | N | N | N | N | N |
| C | 4 | N | TRN_AVL | C | 2 | 2 | 01= if commuter train service available | Y | N | N | N | N | N |
| C | 5 | N | TRN_DIST | N | 8 | 5.1 | Distance to commuter train | Y | N | N | N | N | N |
| G | 35 | S | TRPHHACC | C | 2 | 2 | Other HH mem were also on trip? | N | N | N | N | Y | N |
| G | 23 | S | TRPHHVEH | C | 2 | 2 | Was HH vehicle used on trip? | N | N | N | N | Y | N |
| G | 22.03 | S | TRPMILES | N | 8 | 6.1 | Distance (miles) | N | N | N | Y | Y | N |
| G | * | S | TRPNUM | N | 3 | 2 | Travel day trip number for sample person | N | N | N | Y | Y | N |
| * | * | N | TRPNUM A | N | 3 | 2 | Person trip # of first trip in chain | N | N | N | N | Y | N |
| * | * | N | TRPNUM B | N | 3 | 2 | Person trip # of last trip in chain | N | N | N | N | Y | N |
| G | 25 | S | TRPTRANS | C | 2 | 2 | Mode of transportation code | N | N | N | Y | Y | N |
| G | 27 | S | TRVL_MIN | N | 4 | 4 | Travel time (min) | N | N | N | Y | Y | N |
| F | 5.2 | N | UNITDIST | C | 2 | 2 | Unit of distance to work | N | Y | N | N | N | N |
| * | * | * | URBAN | Ċ | 2 | 2 | Urbanized area code | Y | N | N | N | N | N |
| F | 15 | N | USULDRV | Č | 2 | 2 | Usually drive to work alone or carpool | N | Y | N | N | N | N |
| * | * | S | VARSTRAT | N | 3 | 2 | Sample stratum | Y | Ÿ | Y | Y | Y | Y |
| * | * | S | VEH12MNT | C | 2 | 2 | Vehicle received in last 12 mo | N | N | Ÿ | N | N | N |
| G | 24 | S | VEHID | N | 3 | 2 | HH vehicle number | N | N | Ÿ | N | Y | N |
| В | 7 | S | VEHMILES | N | 4 | 6 | Reported mileage for last 12 mo | N | N | Y | N | N | N |
| В | 6 | S | VEHNEW | C | 2 | 2 | Purchased new (=1) or used (=2) | N | N | Y | N | N | N |
| В | 3 | S | VEHTYPE | C | 2 | 2 | | N | N | Y | N | N | N |
| В | 3 | ۵ | ATHITHE | C | ۷ | 4 | Vehicle type | IN | T/I | ĭ | TAI | TA | IN |

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| On anhiam | Item | 1990 | Target | Var | Var | Var | Tahala | НН | Per | Veh | Seg | Tday | Tper |
|-----------|-------|--------|----------|------|--------|-------|--|-----|-----|-----|-----|------|------|
| Section | ID | Var | Var | Type | Length | wiath | Labels | Var | Var | Var | Var | Var | Var |
| В | 2.3 | S | VEHYEAR | N | 3 | 4 | Model year of veh (yyyy) | N | N | Y | N | N | N |
| * | * | * | VTR_FLG | C | 2 | 2 | 1=POV trip, respondent drove | N | N | N | N | Y | N |
| F | 10.1 | N | WAITAMTR | N | 3 | 3 | Minutes wait for AMTRAK | N | Y | N | N | N | N |
| F | 10.2 | N | WAITBUS | N | 3 | 3 | Minutes wait for bus | N | Y | N | N | N | N |
| F | 10.3 | N | WAITSBWY | N | 3 | 3 | Minutes wait for elevated rail/subway | N | Y | N | N | N | N |
| F | 10.4 | N | WAITSTCR | N | 3 | 3 | Minutes wait for streetcar/trolley | N | Y | N | N | N | N |
| F | 10.5 | N | WAITTRAN | N | 3 | 3 | Minutes wait for commuter train | N | Y | N | N | N | N |
| G | 31 | S | WAIT_MIN | N | 4 | 4 | Time waited for transportation (min) | N | N | N | N | Y | N |
| G | 16.01 | N | WHERE | C | 1 | 1 | H=home, W=work, S=other-specify | N | N | N | N | Y | N |
| G | 36.01 | S | WHOACC_A | N | 3 | 2 | Roster # of other HH mem on trip G36 | N | N | N | N | Y | N |
| G | 36.02 | S | WHOACC_B | N | 3 | 2 | Roster # of other HH mem on trip G36 | N | N | N | N | Y | N |
| G | 36.03 | S | WHOACC_C | N | 3 | 2 | Roster # of other HH mem on trip G36 | N | N | N | N | Y | N |
| G | 36.04 | S | WHOACC_D | N | 3 | 2 | Roster # of other HH mem on trip G36 | N | N | N | N | Y | N |
| G | 36.05 | S | WHOACC_E | N | 3 | 2 | Roster # of other HH mem on trip G36 | N | N | N | N | Y | N |
| G | 36.06 | S | WHOACC_F | N | 3 | 2 | Roster # of other HH mem on trip G36 | N | N | N | N | Y | N |
| G | 36.07 | S | WHOACC_G | N | 3 | 2 | Roster # of other HH mem on trip G36 | N | N | N | N | Y | N |
| G | 36.08 | S | WHOACC_H | N | 3 | 2 | Roster # of other HH mem on trip G36 | N | N | N | N | Y | N |
| G | 36.09 | S | WHOACC_I | N | 3 | 2 | Roster # of other HH mem on trip G36 | N | N | N | N | Y | N |
| G | 36.1 | S | WHOACC_J | N | 3 | 2 | Roster # of other HH mem on trip G36 | N | N | N | N | Y | N |
| G | 38 | S | WHODROVE | N | 3 | 2 | ID of HH mem who drove on trip G38 | N | N | N | N | Y | N |
| D | 15 | N | WHOMAIN | C | 2 | 2 | Who drives veh most of time | N | N | Y | N | N | N |
| G | 20 | N | WHYFROM | C | 2 | 2 | 1995 purpose - from | N | N | N | N | Y | N |
| G | 20 | N | WHYTO | C | 2 | 2 | 1995 purpose - to | N | N | N | N | Y | N |
| G | 20 | WHYTRP | WHYTRP90 | C | 2 | 2 | Purpose of trip (1990 definition) | N | N | N | N | Y | N |
| G | 20 | N | WHYTRP95 | C | 2 | 2 | Purpose of trip (1995 definition) | N | N | N | Y | Y | N |
| F | 8.14 | N | WKBYAIR | C | 2 | 2 | Get to work usually by airplane | N | Y | N | N | N | N |
| F | 8.1 | N | WKBYAMTR | C | 2 | 2 | Get to work usually by AMTRAK | N | Y | N | N | N | N |
| F | 8.01 | N | WKBYAUTO | C | 2 | 2 | Get to work usually by auto | N | Y | N | N | N | N |
| F | 8.16 | N | WKBYBIKE | C | 2 | 2 | Get to work usually by bicycle | N | Y | N | N | N | N |
| F | 8.09 | N | WKBYBUS | C | 2 | 2 | Get to work usually by bus | N | Y | N | N | N | N |
| F | 8.19 | N | WKBYHOME | C | 2 | 2 | Worked from home | N | Y | N | N | N | N |
| F | 8.07 | N | WKBYMCYC | C | 2 | 2 | Get to work usually by motorcycle | N | Y | N | N | N | N |
| F | 8.08 | N | WKBYOPOV | C | 2 | 2 | Get to work usually by other POV | N | Y | N | N | N | N |
| F | 8.2 | N | WKBYOTHR | C | 2 | 2 | Get to work by other means | N | Y | N | N | N | N |
| F | 8.05 | N | WKBYOTTK | C | 2 | 2 | Get to work usually by other truck | N | Y | N | N | N | N |
| F | 8.06 | N | WKBYRV | C | 2 | 2 | Get to work usually by RV | N | Y | N | N | N | N |
| F | 8.13 | N | WKBYSBWY | C | 2 | 2 | Get to work usually by elev. rail/subway | N | Y | N | N | N | N |

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|---------|------------|-------------|---------------|-------------|---------------|--------------|--|-----------|------------|------------|------------|-------------|-------------|
| F | 8.18 | N | WKBYSCBS | С | 2 | 2 | Get to work usually by school bus | N | Y | N | N | N | N |
| F | 8.12 | N | WKBYSTCR | Č | 2 | 2 | Get to work usually by strtcar/trolley | N | Y | N | N | N | N |
| F | 8.15 | N | WKBYTAXI | C | 2 | 2 | Get to work usually by taxi | N | Y | N | N | N | N |
| F | 8.11 | N | WKBYTRAN | C | 2 | 2 | Get to work usually by commuter train | N | Y | N | N | N | N |
| F | 8.04 | N | WKBYTRUK | C | 2 | 2 | Get to work usually by pickup truck | N | Y | N | N | N | N |
| F | 8.03 | N | WKBYUV | C | 2 | 2 | Get to work usually by UV | N | Y | N | N | N | N |
| F | 8.02 | N | WKBYVAN | C | 2 | 2 | Get to work usually by van | N | Y | N | N | N | N |
| F | 8.17 | N | WKBYWALK | C | 2 | 2 | Get to work usually by walking | N | Y | N | N | N | N |
| F | 20 | N | WKFMHM2M | C | 2 | 2 | Worked from home any day last two month? | N | Y | N | N | N | N |
| F | 19 | N | WKFMHMLW | C | 2 | 2 | Worked from home any day last week? | N | Y | N | N | N | N |
| F | 21 | N | WKFMHMXX | C | 2 | 2 | How often worked from home last 2 months | N | Y | N | N | N | N |
| G | 8 | S | WORKDAYS | N | 3 | 2 | Days per week on job | N | Y | N | N | N | N |
| D | 12 | S | WORKER | C | 2 | 2 | Respondent is a worker | N | Y | N | Y | Y | Y |
| * | * | * | WORKLOC | N | 4 | 2 | Work location | N | Y | N | N | N | N |
| F | 4.2 | N | WORKSTAT | C | 2 | 2 | State of workplace | N | Y | N | N | N | N |
| * | * | WRKRCNT | WRKCOUNT | N | 3 | 2 | No. of workers in HH | Y | Y | Y | Y | Y | Y |
| G | 3 | S | WRKDRIVE | C | 2 | 2 | Drive lisensed vehicle in work | N | Y | N | N | N | N |
| G | 6 | N | WRKMILES | N | 3 | 3 | Travel day miles driven on job | N | Y | N | N | N | N |
| F | 9 | S | WRKTRANS | C | 2 | 2 | Main means of transportation to work | N | Y | N | N | N | N |
| G | 5 | N | WRKTRPS | C | 2 | 2 | 10 or more trips on job during day | N | Y | N | N | N | N |
| G | 7 | S | WRKVTYPE | C | 2 | 2 | Type vehicle driven on job | N | Y | N | N | N | N |
| CLAR | * | * | WTEMPLDN | N | 4 | 6 | Jobs per square mile, census tract | N | Y | N | N | N | N |
| * | * | S | WTHHFIN | N | 8 | 11.5 | Final household weight | Y | N | Y | N | N | N |
| CLAR | * | * | WTINDAGR | N | 4 | 3 | Pct 16+ workers, agr/mining/const, CT | N | Y | N | N | N | N |
| CLAR | * | * | WTINDFIN | N | 4 | 3 | Pct 16+ workers, fin/ins/rl est ind, CT | N | Y | N | N | N | N |
| CLAR | * | * | WTINDMAN | N | 4 | 3 | Pct 16+ workers, manuf. industries, CT | N | Y | N | N | N | N |
| CLAR | * | * | WTINDRET | N | 4 | 3 | | N | Y | N | N | N | N |
| CLAR | * | * | WTINDSVC | N | 4 | 3 | Pct 16+ workers, service industries, CT | | Y | N | N | N | N |
| CLAR | * | * | WTINDTRN | N | 4 | 3 | Pct 16+ workers, tran/comm/ util ind, CT | | Y | N | N | N | N |
| CLAR | * | * | WTINDWHL | N | 4 | 3 | Pct 16+ workers, wholesale trade ind, CT | | Y | N | N | N | N |
| * | * | S | WTPERFIN | N | 8 | 11.5 | Final person wt person-nonresp adjusted | N | Y | N | N | N | N |
| * | * | S | WTTRDFIN | N | 8 | 11.2 | Final travel day trip weight | N | N | N | Y | Y | N |
| * | * | S | WTTRPFIN | N | 8 | 11.3 | Final travel period trip weight | N | N | N | N | N | Y |
| E | 8 | S | YEARMILE | N | 5 | 6 | How many miles did you drive per year | N | Y | N | N | N | N |
| E | 8 | * | YMILEFLG | C | 2 | 2 | Yearmile mileage was capped at 200,000 | N | Y | N | N | N | N |

APPENDIX I

VARIABLE LISTS

This Appendix contains:

ASCII FILE LAYOUT are presented in the following order:

HHOLD95

PERSON95

VEHICL95

DAYTRP95

SEGTRP95

PERTRP95

SAS PROC CONTENTS are presented in the following order:

DAYTRP95

HHOLD95

PERSON95

PERTRP95

SEGTRP95

VEHICL95

NOTE that the Proc Contents header was removed from all but the first page of each file to reduce the amount of printing.

ASCII FILE LAYOUT

FILE LAYOUT FOR HHOLD95.ASC

Number of data records: 42033
Date of last update: 08/29/97

| Date of | iast apaate. | 00/25/57 | | | | Column |
|---------|---------------------|----------------------|--------|-----|-------|-----------|
| Field | Field Name | Type | Width | Dec | Nulls | Position |
| ricia | ricia Name | 1700 | WIGCII | DCC | NULLS | 105101011 |
| 1 | CENSUS_D | Character | 2 | | No | 1-2 |
| 2 | CENSUS_R | Character | 2 | | No | 3-4 |
| 3 | HHVEHCNT | Numeric | 4 | | No | 5-8 |
| 4 | MSASIZE | Character | 2 | | No | 9-10 |
| 5 | VARSTRAT | Numeric | 4 | | No | 11-14 |
| 6 | BUSBLOCK | Numeric | 4 | | No | 15-18 |
| 7 | BUSMILE | Numeric | 4 | | No | 19-22 |
| 8 | BUS_AVL | Character | 2 | | No | 23-24 |
| 9 | BUS_DIST | Numeric | 14 | 2 | No | 25-38 |
| 10 | HOUSEID | Numeric | 8 | - | No | 39-46 |
| 11 | DRVRCNT | Numeric | 4 | | No | 47-50 |
| 12 | HHELGCNT | Numeric | 4 | | No | 51-54 |
| 13 | HHFAMINC | Character | 2 | | No | 55-56 |
| 14 | HHRESP | Character | 2 | | No | 57-58 |
| 15 | HHSIZE | Numeric | 4 | | No | 59-62 |
| 16 | HHSTATE | Character | 2 | | No | 63-64 |
| 17 | HHSTFIPS | Numeric | 4 | | No | 65-68 |
| 18 | HH_HISP | Character | 2 | | No | 69-70 |
| 19 | HH RACE | Character | 2 | | No | 71-72 |
| 20 | HOMEOWN | Character | 2 | | No | 73-74 |
| 21 | HOMETYPE | Character | 2 | | No | 75-76 |
| 22 | HSTORIES | Character | 2 | | No | 77-78 |
| 23 | HH OTO4 | Numeric | 4 | | No | 79-82 |
| 24 | LIF_CYC | Character | 2 | | No | 83-84 |
| 25 | NUMADLT | Numeric | 4 | | No | 85-88 |
| 26 | INELGCNT | Numeric | 4 | | No | 89-92 |
| 27 | HHMSA | Character | 4 | | No | 93-96 |
| 28 | MSTR_MON | Numeric | 4 | | No | 97-100 |
| 29 | MSTR_YR | Numeric | 4 | | No | 101-104 |
| 30 | NONFMFLG | Character | 2 | | No | 105-106 |
| 31 | NOTELWKS | Character | 2 | | No | 107-108 |
| 32 | NOTELYR | Character | 2 | | No | 109-110 |
| 33 | OTHERPTR | Character | 2 | | No | 111-112 |
| 34 | P10_AGE | Numeric | 4 | | No | 113-116 |
| 35 | P10_AGE P10_DRVR | Character | 2 | | No | 117-118 |
| 36 | P10_DRVR P10_REL | Character | 2 | | No | 119-120 |
| 37 | P10_KEL P10_SEX | Character | 2 | | No | 121-122 |
| 38 | P10_SEX P10_STAT | Character | 2 | | No | 123-124 |
| 39 | P10_STAT | Character | 2 | | No | 125-124 |
| 40 | P10_WRR P1_AGE | | 4 | | No | 127-130 |
| 41 | P1_AGE P1_DRVR | Numeric Character | 2 | | No | 131-132 |
| 42 | P1_DRVR P1_REL | Character | 2 | | No | 133-134 |
| 43 | P1_KEL P1_SEX | Character | 2 | | No | 135-134 |
| 43 | P1_SEA P1_STAT | Character | 2 | | No | 137-138 |
| 45 | P1_STAT P1_WKR | Character | 2 | | No | 137-138 |
| 46 | P1_WKR P2_AGE | Numeric | 4 | | No | 141-144 |
| 47 | P2_AGE P2_DRVR | Character | 2 | | No | 145-146 |
| ± / | FZ_DV/V | CHALACTEL | 4 | | INO | T47-T40 |

| HHOLD9 | 5.ASC | | | | |
|--------|----------|-----------|---|----|---------|
| 48 | P2_REL | Character | 2 | No | 147-148 |
| 49 | P2_SEX | Character | 2 | No | 149-150 |
| 50 | P2 STAT | Character | 2 | No | 151-152 |
| 51 | P2 WKR | Character | 2 | No | 153-154 |
| 52 | P3 AGE | Numeric | 4 | No | 155-158 |
| 53 | P3_DRVR | Character | 2 | No | 159-160 |
| 54 | P3_REL | Character | 2 | No | 161-162 |
| 55 | P3 SEX | Character | 2 | No | 163-164 |
| 56 | P3 STAT | Character | 2 | No | 165-166 |
| 57 | P3 WKR | Character | 2 | No | 167-168 |
| 58 | P4_AGE | Numeric | 4 | No | 169-172 |
| 59 | P4 DRVR | Character | 2 | No | 173-174 |
| 60 | REF EDUC | Character | 2 | No | 175-176 |
| 61 | P4 REL | Character | 2 | No | 177-178 |
| 62 | P4 SEX | Character | 2 | No | 179-180 |
| 63 | P4 STAT | Character | 2 | No | 181-182 |
| 64 | P4 WKR | Character | 2 | No | 183-184 |
| 65 | P5_AGE | Numeric | 4 | No | 185-188 |
| 66 | P5_DRVR | Character | 2 | No | 189-190 |
| 67 | P5 REL | Character | 2 | No | 191-192 |
| 68 | P5_SEX | Character | 2 | No | 193-194 |
| 69 | P5 STAT | Character | 2 | No | 195-196 |
| 70 | P5 WKR | Character | 2 | No | 197-198 |
| 71 | P6 AGE | Numeric | 4 | No | 199-202 |
| 72 | P6 DRVR | Character | 2 | No | 203-204 |
| 73 | P6 REL | Character | 2 | No | 205-206 |
| 74 | P6 SEX | Character | 2 | No | 207-208 |
| 75 | P6 STAT | Character | 2 | No | 209-210 |
| 76 | P6 WKR | Character | 2 | No | 211-212 |
| 77 | P7_AGE | Numeric | 4 | No | 213-216 |
| 78 | P7 DRVR | Character | 2 | No | 217-218 |
| 79 | P7 REL | Character | 2 | No | 219-220 |
| 80 | P7 SEX | Character | 2 | No | 221-222 |
| 81 | P7_STAT | Character | 2 | No | 223-224 |
| 82 | P7_WKR | Character | 2 | No | 225-226 |
| 83 | P8_AGE | Numeric | 4 | No | 227-230 |
| 84 | P8_DRVR | Character | 2 | No | 231-232 |
| 85 | P8_REL | Character | 2 | No | 233-234 |
| 86 | P8_SEX | Character | 2 | No | 235-236 |
| 87 | P8_STAT | Character | 2 | No | 237-238 |
| 88 | P8_WKR | Character | 2 | No | 239-240 |
| 89 | P9_AGE | Numeric | 4 | No | 241-244 |
| 90 | P9_DRVR | Character | 2 | No | 245-246 |
| 91 | P9_REL | Character | 2 | No | 247-248 |
| 92 | P9_SEX | Character | 2 | No | 249-250 |
| 93 | P9_STAT | Character | 2 | No | 251-252 |
| 94 | P9_WKR | Character | 2 | No | 253-254 |
| 95 | RAIL | Character | 2 | No | 255-256 |
| 96 | REF_AGE | Numeric | 4 | No | 257-260 |
| 97 | REF_DRVR | Character | 2 | No | 261-262 |
| 98 | REF_SEX | Character | 2 | No | 263-264 |
| 99 | REF_STAT | Character | 2 | No | 265-266 |
| 100 | REF_WKR | Character | 2 | No | 267-268 |
| 101 | RESP_CNT | Numeric | 4 | No | 269-272 |
| 102 | STCBLOCK | Numeric | 4 | No | 273-276 |
| 103 | STCMILE | Numeric | 4 | No | 277-280 |
| 104 | STC_AVL | Character | 2 | No | 281-282 |

| HHOLD | 95.ASC | | | | | |
|-------|----------|-----------|--------|---|----|---------|
| 105 | STC_DIST | Numeric | 14 | 2 | No | 283-296 |
| 106 | SUBBLOCK | Numeric | 4 | - | No | 297-300 |
| 107 | SUBMILE | Numeric | 4 | | No | 301-304 |
| 107 | | Character | 2 | | | 301-304 |
| | SUB_AVL | | | 0 | No | |
| 109 | SUB_DIST | Numeric | 14 | 2 | No | 307-320 |
| 110 | SUM_STAT | Character | 3 | | No | 321-323 |
| 111 | TDAY_MON | Numeric | 4 | | No | 324-327 |
| 112 | TDAY_YR | Numeric | 4 | | No | 328-331 |
| 113 | TELNUMCT | Character | 2 | | No | 323-333 |
| 114 | TEL_HHS | Character | 2 | | No | 334-335 |
| 115 | TPER_BMO | Numeric | 4 | | No | 336-339 |
| 116 | TPER_BYR | Numeric | 4 | | No | 340-343 |
| 117 | TPER_EMO | Numeric | 4 | | No | 344-347 |
| 118 | TPER_EYR | Numeric | 4 | | No | 348-351 |
| 119 | TRNBLOCK | Numeric | 4 | | No | 352-355 |
| 120 | TRNMILE | Numeric | 4 | | No | 356-359 |
| 121 | TRN AVL | Character | 2 | | No | 360-361 |
| 122 | TRN DIST | Numeric | 14 | 2 | No | 362-375 |
| 123 | WRKCOUNT | Numeric | 4 | | No | 376-379 |
| 124 | WTHHFIN | Numeric | 14 | 2 | No | 380-393 |
| 125 | HHCMSA | Character | 4 | _ | No | 394-397 |
| 126 | URBAN | Character | 2 | | No | 398-399 |
| 127 | SUBSTRAT | Numeric | 4 | | No | 400-403 |
| 127 | | Numeric | 8 | | | 400-403 |
| | GHMXIN | | o 7 | | No | |
| 129 | HBPPOPDN | Numeric | | | No | 412-418 |
| 130 | HBPPOPNO | Numeric | 7 | | No | 419-425 |
| 131 | HBPLTPOV | Numeric | 5 | | No | 426-430 |
| 132 | HBPHSGD | Numeric | 5 | | No | 431-435 |
| 133 | HBPCOLGD | Numeric | 5 | | No | 436-440 |
| 134 | HBP65P | Numeric | 5 | | No | 441-445 |
| 135 | HBPFORBN | Numeric | 5 | | No | 446-450 |
| 136 | HBPHISP | Numeric | 5 | | No | 451-455 |
| 137 | HBPRCCAU | Numeric | 5 | | No | 456-460 |
| 138 | HBPRCAA | Numeric | 5 | | No | 461-465 |
| 139 | HBPRCASN | Numeric | 5 | | No | 466-470 |
| 140 | HBPRCOTH | Numeric | 5 | | No | 471-475 |
| 141 | HTPPOPDN | Numeric | 7 | | No | 476-482 |
| 142 | HTPPOPNO | Numeric | 7 | | No | 483-489 |
| 143 | HTPLTPOV | Numeric | 5 | | No | 490-494 |
| 144 | HTPHSGD | Numeric | 5 | | No | 495-499 |
| 145 | HTPCOLGD | Numeric | 5 | | No | 500-504 |
| 146 | HTP65P | Numeric | 5 | | No | 505-509 |
| 147 | HTPFORBN | Numeric | 5 | | No | 510-514 |
| 148 | HTPHISP | Numeric | 5 | | No | 515-519 |
| 149 | HTPRCCAU | Numeric | 5 | | No | 520-524 |
| 150 | HTPRCAA | Numeric | 5 | | No | 525-529 |
| 151 | HTPRCAA | Numeric | 5 | | No | |
| | | | 5 | | | 530-534 |
| 152 | HTPRCOTH | Numeric | | | No | 535-539 |
| 153 | HBHUR | Character | 1 | | No | 540 |
| 154 | HBHRESDN | Numeric | 7 | | No | 541-547 |
| 155 | HBHHSSNG | Numeric | 5 | | No | 548-552 |
| 156 | HBHHSMLT | Numeric | 5 | | No | 553-557 |
| 157 | HBHHSOTH | Numeric | 5 | | No | 558-562 |
| 158 | HBHTNOWN | Numeric | 5 | | No | 563-567 |
| 159 | HBHTNRNT | Numeric | 5 | | No | 568-572 |
| 160 | HBHRECNT | Numeric | 5 | | No | 573-577 |
| 161 | HBHMEDHS | Numeric | 7 | | No | 578-584 |

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| 162 | HBHINMED | Numeric | 7 | No | 585-591 |
|-----|----------|-----------|---|----|---------|
| 163 | HBHINCL | Numeric | 5 | No | 592-596 |
| 164 | HBHINCM1 | Numeric | 5 | No | 597-601 |
| 165 | HBHINCM2 | Numeric | 5 | No | 602-606 |
| 166 | HBHINCH | Numeric | 5 | No | 607-611 |
| 167 | HTHUR | Character | 1 | No | 612 |
| 168 | HTHRESDN | Numeric | 7 | No | 613-619 |
| 169 | HTHHSSNG | Numeric | 5 | No | 620-624 |
| 170 | HTHHSMLT | Numeric | 5 | No | 625-629 |
| 171 | HTHHSOTH | Numeric | 5 | No | 630-634 |
| 172 | HTHTNOWN | Numeric | 5 | No | 635-639 |
| 173 | HTHTNRNT | Numeric | 5 | No | 640-644 |
| 174 | HTHRECNT | Numeric | 5 | No | 645-649 |
| 175 | HTHMEDHS | Numeric | 7 | No | 650-656 |
| 176 | HTHINMED | Numeric | 7 | No | 657-663 |
| 177 | HTHINCL | Numeric | 5 | No | 664-668 |
| 178 | HTHINCM1 | Numeric | 5 | No | 669-673 |
| 179 | HTHINCM2 | Numeric | 5 | No | 674-678 |
| 180 | HTHINCH | Numeric | 5 | No | 679-683 |
| 181 | HTEEMPDN | Numeric | 7 | No | 684-690 |
| 182 | HTINDRET | Numeric | 5 | No | 691-695 |

FILE LAYOUT FOR PERSON95.ASC

Number of data records: 95360 Date of last update: 08/29/97

| Date of | last update: | 08/29/ | 9./ | | | G = 1 |
|---------|--------------|-----------|-------|-----|-------|--------------------|
| Field | Field Name | Туре | Width | Dec | Nulls | Column Position |
| 1 | HOUSEID | Numeric | 8 | | No | 1-8 |
| 2 | PERSONID | Numeric | 4 | | No | 9-12 |
| 3 | PROXY | Character | 2 | | No | 13-14 |
| 4 | R AGEFLG | Character | 2 | | No | 15-16 |
| 5 | REF_ROST | Numeric | 4 | | No | 17-20 |
| 6 | R_AGE | Numeric | 4 | | No | 21-24 |
| 7 | R_SEX | Character | 2 | | No | 25-26 |
| 8 | R RELAT | Character | 2 | | No | 27-28 |
| 9 | DRIVER | Character | 2 | | No | 29-30 |
| 10 | DTCONJ | Character | 2 | | No | 31-32 |
| 11 | DTPAVE | Character | 2 | | No | 33-34 |
| 12 | DTNTFMLR | Character | 2 | | No | 35-36 |
| 13 | DTACDT | Character | 2 | | No | 37-38 |
| 14 | DTWALK | Character | 2 | | No | 39-40 |
| 15 | DTPOLLTN | Character | 2 | | No | 41-42 |
| 16 | DTTIEUP | Character | 2 | | No | 43-44 |
| 17 | DTSTRTS | Character | 2 | | No | 45-46 |
| 18 | DTCRIME | Character | 2 | | No | 47-48 |
| 19 | PTUSED | Character | 2 | | No | 49-50 |
| 20 | PTCROWD | Character | 2 | | No | 51-52 |
| 21 | PTTIMEON | Character | 2 | | No | 53-54 |
| 22 | PTNTCLN | Character | 2 | | No | 55-56 |
| 23 | PTCRIME | Character | 2 | | No | 57-58 |
| 24 | PTTRANSF | Character | 2 | | No | 59-60 |
| 25 | PTCOST | Character | 2 | | No | 61-62 |
| 26 | PTTMND | Character | 2 | | No | 63-64 |
| 27 | PTCARND | Character | 2 | | No | 65-66 |
| 28 | FQSTBELT | Character | 2 | | No | 67-68 |
| 29 | NSBFGET | Character | 2 | | No | 69-70 |
| 30 | NSBBROKE | Character | 2 | | No | 71-72 |
| 31 | NSBSHORT | Character | 2 | | No | 73-74 |
| 32 | NSBLONG | Character | 2 | | No | 75-76 |
| 33 | NSBBACK | Character | 2 | | No | 77-78 |
| 34 | NSBPSNG | Character | 2 | | No | 79-80 |
| 35 | NSBDRVR | Character | 2 | | No | 81-82 |
| 36 | NSBSPVEH | Character | 2 | | No | 83-84 |
| 37 | NSBTOWN | Character | 2 | | No | 85-86 |
| 38 | NSBSPPER | Character | 2 | | No | 87-88 |
| 39 | NSBOTHER | Character | 2 | | No | 89-80 |
| 40 | NSBHURRY | Character | 2 | | No | 91-92 |
| 41 | NSBSPCLH | Character | 2 | | No | 93-94 |
| 42 | NSBNOASK | Character | 2 | | No | 95-96 |
| 43 | NSBMED | Character | 2 | | No | 97-98 |
| 44 | NSBNLIKE | Character | 2 | | No | 99-100 |
| 45 | NSBTOWRK | Character | 2 | | No | 101-102 |
| 46 | NSBPOLIC | Character | 2 | | No | 103-104 |
| 47 | NSBWTHR | Character | 2 | | No | 105-106 |
| 48 | YEARMILE | Numeric | 6 | | No | 107-112 |
| 49 | YMILEFLG | Character | 2 | | No | 113-114 |
| 50 | EDUC | Character | 2 | | No | 115-116 |
| 51 | JOBLSTWK | Character | 2 | | No | 117-118 |
| - | ** | | | | - | - |

| PERS | ON95.ASC | | | | | |
|------|-------------|-----------|----|---|-----|---------|
| 52 | GT1JBLWK | Character | 2 | | No | 119-120 |
| 53 | WORKSTAT | Character | 2 | | No | 121-122 |
| 54 | DISTTOWK | Numeric | 14 | 2 | No | 123-136 |
| 55 | UNITDIST | Character | 2 | 2 | No | 137-138 |
| 56 | TIMELEAV | Numeric | 4 | | No | 139-142 |
| | | | | | | |
| 57 | TIMETOWK | Numeric | 4 | | No | 143-146 |
| 58 | WKBYAUTO | Character | 2 | | No | 147-148 |
| 59 | WKBYVAN | Character | 2 | | No | 149-150 |
| 60 | WKBYUV | Character | 2 | | No | 151-152 |
| 61 | WKBYTRUK | Character | 2 | | No | 153-154 |
| 62 | WKBYOTTK | Character | 2 | | No | 155-156 |
| 63 | WKBYRV | Character | 2 | | No | 157-158 |
| 64 | WKBYMCYC | Character | 2 | | No | 159-160 |
| 65 | WKBYOPOV | Character | 2 | | No | 161-162 |
| 66 | WKBYBUS | Character | 2 | | No | 163-164 |
| 67 | WKBYAMTR | Character | 2 | | No | 165-166 |
| 68 | WKBYTRAN | Character | 2 | | No | 167-168 |
| 69 | WKBYSTCR | Character | 2 | | No | 169-170 |
| 70 | WKBYSBWY | Character | 2 | | No | 171-172 |
| 71 | WKBYAIR | Character | 2 | | No | 173-174 |
| 72 | WKBYTAXI | Character | 2 | | No | 175-176 |
| 73 | WKBYBIKE | Character | 2 | | No | 177-178 |
| 74 | WKBYWALK | Character | 2 | | No | 179-180 |
| | | | 2 | | | 181-182 |
| 75 | WKBYSCBS | Character | | | No | |
| 76 | WKBYHOME | Character | 2 | | No | 183-184 |
| 77 | WKBYOTHR | Character | 2 | | No | 185-186 |
| 78 | WRKTRANS | Character | 2 | | No | 187-188 |
| 79 | WAITAMTR | Numeric | 4 | | No | 189-192 |
| 80 | WAITBUS | Numeric | 4 | | No | 193-196 |
| 81 | WAITSBWY | Numeric | 4 | | No | 197-200 |
| 82 | WAITSTCR | Numeric | 4 | | No | 201-204 |
| 83 | WAITTRAN | Numeric | 4 | | No | 205-208 |
| 84 | SITAMTR | Character | 2 | | No | 209-210 |
| 85 | SITBUS | Character | 2 | | No | 211-212 |
| 86 | SITSBWY | Character | 2 | | No | 213-214 |
| 87 | SITSTCR | Character | 2 | | No | 215-216 |
| 88 | SITTRAN | Character | 2 | | No | 217-218 |
| 89 | SIT2AMTR | Character | 2 | | No | 219-220 |
| 90 | SIT2BUS | Character | 2 | | No | 221-222 |
| 91 | SIT2SBWY | Character | 2 | | No | 223-224 |
| 92 | SIT2STCR | Character | 2 | | No | 225-226 |
| 93 | SIT2TRAN | Character | 2 | | No | 227-228 |
| 94 | | | 2 | | | 229-230 |
| | PAYTOPRK | Character | | 2 | No | |
| 95 | PARKAMNT | Numeric | 14 | 2 | No | 231-24 |
| 96 | PARKCODE | Character | 2 | | No | 245-246 |
| 97 | USULDRV | Character | 2 | | No | 247-248 |
| 98 | ALWYSDRV | Character | 2 | | No | 249-250 |
| 99 | NCIRRHR | Character | 2 | | No | 251-252 |
| .00 | NCNOONE | Character | 2 | | No | 253-25 |
| .01 | NCINCVNT | Character | 2 | | No | 255-25 |
| .02 | NCNEEDCR | Character | 2 | | No | 257-258 |
| .03 | NCSHRTDI | Character | 2 | | No | 259-260 |
| 04 | NCOTHRES | Character | 2 | | No | 261-26 |
| .05 | NCONLY | Character | 2 | | No | 263-264 |
| .06 | NCNEVER | Character | 2 | | No | 265-266 |
| .07 | NCNLIKE | Character | 2 | | No | 267-268 |
| .08 | NCLVFAR | Character | 2 | | No | 269-270 |
| .00 | TACTIAL VIC | CHALACTEL | 2 | | INO | 207 270 |
| | | | | | | |

| PERSO | N95.ASC | | | | | |
|------------|------------------|------------------------|--------|---|----------|--------------------|
| 109 | NCCOMCR | Character | 2 | | No | 271-272 |
| 110 | NPT2FRWK | Character | 2 | | No | 273-274 |
| 111 | NPT2MCTM | Character | 2 | | No | 275-276 |
| 112 | NPT2EXPV | Character | 2 | | No | 277-278 |
| 113 | NPTOTHTG | Character | 2 | | No | 279-280 |
| 114 | NPTNTCNV | Character | 2 | | No | 281-282 |
| 115 | NPTFMHM | Character | 2 | | No | 283-284 |
| 116 | NPTOTHER | Character | 2 | | No | 285-286 |
| 117 | NPTLVCLS | Character | 2 | | No | 287-288 |
| 118 | NPTDLPT | Character | 2 | | No | 289-290 |
| 119 | NPTHVCAR | Character | 2 | | No | 291-292 |
| 120 | NPTCOMCR | Character | 2 | | No | 293-294 |
| 121 | WKFMHMLW | Character | 2 | | No | 295-296 |
| 122 | WKFMHM2M | Character | 2 | | No | 297-298 |
| 123 | WKFMHMXX | Character | 2 | | No | 299-300 |
| 124 | WRKDRIVE | Character | 2 | | No | 301-302 |
| 125 | WRKTRPS | Character | 2 | | No | 303-304 |
| 126 | WRKMILES | Numeric | 4 | | No | 305-308 |
| 127 | WRKVTYPE | Character | 2 | | No | 309-310 |
| 128 | WORKDAYS | Numeric | 4 | | No | 311-314 |
| 129 | DIARYCMP | Character | 2 | | No | 315-316 |
| 130 | DIARYHAV | Character | 2 | | No | 317-318 |
| 131 | DIARYGET | Character | 2 | | No | 319-320 |
| 132 | NONFMINC | Character | 2 | | No | 321-322 |
| 133 | CENSUS_D | Character | 2 | | No | 323-324 |
| 134 | CENSUS_R | Character | 2 | | No | 325-326 |
| 135 | WTPERFIN | Numeric | 14 | 2 | No | 327-340 |
| 136 | REF_EDUC | Character | 2 | | No | 341-342 |
| 137 | OUTCNTRY | Character | 2 | | No | 343-344 |
| 138 | SAMEPLC | Character | 2 | | No | 345-346 |
| 139 | INTRVMON | Numeric | 4 | | No | 347-350 |
| 140 | INTRVYR | Numeric | 4 | | No | 351-354 |
| 141 | WORKER | Character | 2 | | No | 355-356 |
| 142 | HHVEHCNT | Numeric | 4 | | No | 357-360 |
| 143 | MSASIZE | Character | 2 | | No | 361-362 |
| 144 | VARSTRAT | Numeric | 4 | | No | 363-366 |
| 145 | DRVRCNT | Numeric | 4 | | No | 367-370 |
| 146 | HHFAMINC | Character | 2 | | No | 371-372 |
| 147 | HHRESP | Character | 2 | | No | 373-374 |
| 148 149 | HHSIZE | Numeric | 4 2 | | No | 375-378 |
| | HH_HISP | Character Character | 2 | | No No | 379-380 |
| 150 | HH_RACE | | 2 | | | 381-382 |
| 151 | LIF_CYC | Character | 4 | | No | 383-384 |
| 152 | HHMSA | Character Numeric | | | No | 385-388 |
| 153 | MSTR_MON | | 4 4 | | No | 389-392 393-396 |
| 154 155 | MSTR_YR | Numeric Character | 2 | | No No | 393-396 |
| 156 | RAIL REF_AGE | Numeric | 4 | | No | 399-402 |
| 157 | REF_SEX | Character | 2 | | No | 403-404 |
| 158 | TDAY_MON | Numeric | 4 | | No | 405-404 |
| 150 | TDAY_MON TDAY_YR | Numeric | 4 | | No | 405-408 |
| 160 | WRKCOUNT | Numeric | 4 | | No | 413-416 |
| 161 | HHCMSA | Character | 4 | | No | 417-420 |
| 162 | SUBSTRAT | Numeric | 4 | | No | 421-424 |
| 163 | GWKXIN | Numeric | 8 | | No | 425-432 |
| 164 | HBPPOPDN | Numeric | 7 | | No | 433-439 |
| 165 | HBHUR | Character | 1 | | No | 440 |
| | | | _ | | • • | - |

| PERSO | PERSON95.ASC | | | | | | |
|-------|--------------|---------|---|----|---------|--|--|
| 166 | HBHRESDN | Numeric | 7 | No | 441-447 | | |
| 167 | HBHINMED | Numeric | 7 | No | 448-454 | | |
| 168 | WTEMPLDN | Numeric | 8 | No | 455-262 | | |
| 169 | WTINDAGR | Numeric | 5 | No | 463-467 | | |
| 170 | WTINDMAN | Numeric | 5 | No | 468-472 | | |
| 171 | WTINDTRN | Numeric | 5 | No | 473-477 | | |
| 172 | WTINDWHL | Numeric | 5 | No | 478-482 | | |
| 173 | WTINDRET | Numeric | 5 | No | 483-487 | | |
| 174 | WTINDFIN | Numeric | 5 | No | 488-492 | | |
| 175 | WTINDSVC | Numeric | 5 | No | 493-497 | | |
| 176 | WORKLOC | Numeric | 5 | No | 498-502 | | |

FILE LAYOUT FOR VEHICL95.ASC

Number of data records: 75217
Date of last update: 09/05/97

| Date of | last update. | 09/05/5 | 9 / | | | Column |
|---------|--------------|-----------|-------|-----|-------|----------|
| Field | Field Name | Туре | Width | Dec | Nulls | Position |
| 1 | HOUSEID | Numeric | 8 | | No | 1-8 |
| 2 | VEHID | Numeric | 4 | | No | 9-12 |
| 3 | ANNUALZD | Numeric | 14 | 5 | No | 13-26 |
| 4 | ANN_FLG | Character | 2 | | No | 27-28 |
| 5 | ANN_EDIT | Character | 2 | | No | 29-30 |
| 6 | ANN_OUT | Character | 2 | | No | 31-32 |
| 7 | CENSUS_D | Character | 2 | | No | 33-34 |
| 8 | CENSUS R | Character | 2 | | No | 35-36 |
| 9 | MSASIZE | Character | 2 | | No | 37-38 |
| 10 | ANNMILES | Numeric | 14 | 2 | No | 39-52 |
| 11 | HHVEHCNT | Numeric | 4 | | No | 53-56 |
| 12 | MAINDRVR | Character | 2 | | No | 57-58 |
| 13 | MAKECODE | Character | 2 | | No | 59-60 |
| 14 | MILELIMT | Character | 2 | | No | 61-62 |
| 15 | MODLCODE | Character | 3 | | No | 63-65 |
| 16 | PURCHMON | Numeric | 4 | | No | 66-69 |
| 17 | VEH12MNT | Character | 2 | | No | 70-71 |
| 18 | VEHMILES | Numeric | 6 | | No | 72-77 |
| 19 | VEHNEW | Character | 2 | | No | 78-79 |
| 20 | VEHTYPE | Character | 2 | | No | 80-81 |
| 21 | VEHYEAR | Numeric | 4 | | No | 82-85 |
| 22 | WHOMAIN | Character | 2 | | No | 86-87 |
| 23 | PURCHYR | Numeric | 5 | | No | 88-92 |
| 24 | VARSTRAT | Numeric | 4 | | No | 93-96 |
| 25 | DRVRCNT | Numeric | 4 | | No | 97-100 |
| 26 | HHELGCNT | Numeric | 4 | | No | 101-104 |
| 27 | HHFAMINC | Character | 2 | | No | 105-106 |
| 28 | HHSIZE | Numeric | 4 | | No | 107-110 |
| 29 | HH HISP | Character | 2 | | No | 111-112 |
| 30 | HH RACE | Character | 2 | | No | 113-114 |
| 31 | LIF_CYC | Character | 2 | | No | 115-116 |
| 32 | HHMSA | Character | 4 | | No | 117-120 |
| 33 | MSTR_MON | Numeric | 4 | | No | 121-124 |
| 34 | MSTR YR | Numeric | 4 | | No | 125-128 |
| 35 | RAIL | Character | 2 | | No | 129-130 |
| 36 | SUM_STAT | Character | 3 | | No | 131-133 |
| 37 | TDAY_MON | Numeric | 4 | | No | 134-137 |
| 38 | TDAY_YR | Numeric | 4 | | No | 138-141 |
| 39 | WRKCOUNT | Numeric | 4 | | No | 142-145 |
| 40 | WTHHFIN | Numeric | 14 | 2 | No | 146-159 |
| 41 | HHCMSA | Character | 4 | | No | 160-163 |
| 42 | OD_DAY1 | Numeric | 4 | | No | 164-167 |
| 43 | OD_MON1 | Numeric | 4 | | No | 168-171 |
| 44 | OD_YR1 | Numeric | 4 | | No | 172-175 |
| 45 | OD_DAY2 | Numeric | 4 | | No | 176-179 |
| 46 | OD_MON2 | Numeric | 4 | | No | 180-183 |
| 47 | OD_YR2 | Numeric | 4 | | No | 184-187 |
| 48 | OD_READ1 | Numeric | 6 | | No | 188-193 |
| 49 | OD_READ2 | Numeric | 6 | | No | 194-199 |
| 50 | SUBSTRAT | Numeric | 4 | | No | 200-203 |
| 51 | HBPPOPDN | Numeric | 7 | | No | 204-210 |
| | | | | | | |

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| 52 | HBHUR | Character | 1 | | No | 211 |
|----|-----------|-----------|----|---|----|---------|
| 53 | HBHRESDN | Numeric | 7 | | No | 212-218 |
| 54 | HBHINMED | Numeric | 7 | | No | 219-225 |
| 55 | ANTILZDSE | Numeric | 14 | 2 | No | 226-239 |

FILE LAYOUT FOR DAYTRP95.ASC

Number of data reco rds: 409025 Date of last update: 08/29/97

| Date of | last update: | 08/29/9 | | | | |
|---------|----------------|--------------------|--------|-----|-------|----------|
| | | | Column | | | |
| Field | Field Name | Type | Width | Dec | Nulls | Position |
| 1 | HOUSEID | Numeric | 8 | | No | 1-8 |
| 2 | TRAVDAY | Numeric | 4 | | No | 9-12 |
| 3 | PROXY | Character | 2 | | No | 13-14 |
| 4 | R AGE | Numeric | 4 | | No | 15-18 |
| 5 | R_NGE R SEX | Character | 2 | | No | 19-20 |
| 6 | CENSUS_D | Character | 2 | | No | 21-22 |
| 7 | CENSUS_B | Character | 2 | | No | 23-24 |
| 8 | REF_EDUC | Character | 2 | | No | 25-26 |
| 9 | | | 4 | | | 27-30 |
| 10 | INTRVMON | Numeric Numeric | 4 | | No | |
| | INTRVYR | | 2 | | No | 31-34 |
| 11 | WORKER | Character | | | No | 35-36 |
| 12 | AWAYHOME | Character | 2 | | No | 37-38 |
| 13 | CHAIN | Numeric | 4 | | No | 39-42 |
| 14 | CHAINTRP | Numeric | 4 | | No | 43-46 |
| 15 | DATEFLG | Character | 2 | | No | 47-48 |
| 16 | DAYNIGHT | Character | 2 | | No | 49-50 |
| 17 | DIFFDATE | Numeric | 4 | | No | 51-54 |
| 18 | DRIVER | Character | 2 | | No | 55-56 |
| 19 | DRVR_FLG | Character | 2 | | No | 57-58 |
| 20 | EDITMILE | Character | 2 | | No | 59-60 |
| 21 | EDITMODE | Character | 2 | | No | 61-62 |
| 22 | EDIT_MIN | Character | 2 | | No | 63-64 |
| 23 | FROM_A | Character | 1 | | No | 65 |
| 24 | FRSTHM | Character | 2 | | No | 66-67 |
| 25 | HHMEMDRV | Character | 2 | | No | 68-69 |
| 26 | HHSIZE | Numeric | 4 | | No | 70-73 |
| 27 | VEHID | Numeric | 4 | | No | 74-77 |
| 28 | HHVEHCNT | Numeric | 4 | | No | 78-81 |
| 29 | HH_ONTRP | Numeric | 4 | | No | 82-85 |
| 30 | HOWFARU | Character | 2 | | No | 86-87 |
| 31 | DWELTIME | Numeric | 5 | | No | 88-92 |
| 32 | MATCH | Numeric | 4 | | No | 93-96 |
| 33 | MSASIZE | Character | 2 | | No | 97-98 |
| 34 | NONHHACC | Character | 2 | | No | 99-100 |
| 35 | NONHHCNT | Numeric | 4 | | No | 101-104 |
| 36 | EDITNONH | Character | 2 | | No | 105-106 |
| 37 | NUMONTRP | Numeric | 4 | | No | 107-110 |
| 38 | PASSPURP | Character | 2 | | No | 111-112 |
| 39 | PREVREP | Character | 2 | | No | 113-114 |
| 40 | TRPNUM | Numeric | 4 | | No | 115-118 |
| 41 | PUBTRANS | Character | 2 | | No | 119-120 |
| 42 | SEGMENTD | Character | 2 | | No | 121-122 |
| 43 | SITMOST | Character | 2 | | No | 123-124 |
| 44 | STANDSIT | Character | 2 | | No | 125-126 |
| 45 | TO_B | Character | 1 | | No | 127 |
| 46 | TRAVWKND | Character | 2 | | No | 128-129 |
| 47 | TRPHHACC | Character | 2 | | No | 130-131 |
| 48 | TRPHHVEH | Character | 2 | | No | 132-133 |
| 49 | TRPNUM_A | Numeric | 4 | | No | 134-137 |
| 50 | TRPNUM_B | Numeric | 4 | | No | 138-141 |
| 51 | WAIT_MIN | Numeric | 5 | | No | 142-146 |
| | | | | | | |

| DAYTRE | 95.ASC | | | | | |
|----------|----------|-----------|----|---|----|-----------|
| 52 | WHERE | Character | 1 | | No | 147 |
| 53 | WHOACC A | Numeric | 4 | | No | 148-151 |
| 54 | WHOACC B | Numeric | 4 | | No | 152-155 |
| 55 | WHOACC C | Numeric | 4 | | No | 156-159 |
| 56 | WHOACC D | Numeric | 4 | | No | 160-163 |
| 57 | WHOACC E | Numeric | 4 | | No | 164-167 |
| 58 | WHOACC F | Numeric | 4 | | No | 168-171 |
| 59 | WHOACC G | Numeric | 4 | | No | 172-175 |
| 60 | WHOACC H | Numeric | 4 | | No | 176-179 |
| 61 | WHOACC I | Numeric | 4 | | No | 180-183 |
| 62 | WHOACC J | Numeric | 4 | | No | 184-187 |
| 63 | WHODROVE | Numeric | 4 | | No | 188-191 |
| 64 | WHYFROM | Character | 2 | | No | 192-193 |
| 65 | WHYTO | Character | 2 | | No | 194-195 |
| 66 | WHYTRP90 | Character | 2 | | No | 196-197 |
| 67 | OVERLAP | Character | 1 | | No | 198-197 |
| 68 | HHTRIPID | Numeric | 4 | | No | |
| | | | 4 | | | 199-202 |
| 69 70 | PERSONID | Numeric | | | No | 203-206 |
| 70 | STRTTIME | Numeric | 5 | | No | 207-211 |
| 71 | TRANSFER | Character | 2 | 0 | No | 212-213 |
| 72 | TRPMILES | Numeric | 14 | 2 | No | 214-227 |
| 73 | TRPTRANS | Character | 2 | | No | 228-229 |
| 74 | TRVL_MIN | Numeric | 5 | | No | 230-234 |
| 75 | VARSTRAT | Numeric | 4 | | No | 235-238 |
| 76 | WHYTRP95 | Character | 2 | _ | No | 239-240 |
| 77 | WTTRDFIN | Numeric | 14 | 2 | No | 241-254 |
| 78 | DRVRCNT | Numeric | 4 | | No | 255-258 |
| 79 | HHFAMINC | Character | 2 | | No | 259-260 |
| 80 | HH_HISP | Character | 2 | | No | 261-262 |
| 81 | HH_RACE | Character | 2 | | No | 263-264 |
| 82 | LIF_CYC | Character | 2 | | No | 265-266 |
| 83 | HHMSA | Character | 4 | | No | 267-270 |
| 84 | MSTR_MON | Numeric | 4 | | No | 271-274 |
| 85 | MSTR_YR | Numeric | 4 | | No | 275-278 |
| 86 | RAIL | Character | 2 | | No | 279-280 |
| 87 | REF_AGE | Numeric | 4 | | No | 281-284 |
| 88 | REF_SEX | Character | 2 | | No | 285-286 |
| 89 | TDAY_MON | Numeric | 4 | | No | 287-290 |
| 90 | TDAY_YR | Numeric | 4 | | No | 291-294 |
| 91 | WRKCOUNT | Numeric | 4 | | No | 295-298 |
| 92 | HHCMSA | Character | 4 | | No | 299-302 |
| 93 | VTR_FLG | Character | 2 | | No | 303-304 |
| 94 | SUBSTRAT | Numeric | 4 | | No | 305-308 |
| 95 | HBPPOPDN | Numeric | 7 | | No | 309-315 |
| 96 | HBHUR | Character | 1 | | No | 316 |
| 97 | HBHRESDN | Numeric | 7 | | No | 317-323 |
| 98 | HBHINMED | Numeric | 7 | | N | o 324-330 |

FILE LAYOUT FOR SEGTRP95.ASC

Number of data records: 3779
Date of last update: 08/29/97

| Date of | iast apaate: | 00/25/51 | | | | Column |
|----------|----------------------|------------------------|-------------|-----|----------|--------------------|
| Field | Field Name | Type | Width | Dec | Nulls | Position |
| 1 | HOUSEID | Numeric | Wideli 8 | Dec | No | 1-8 |
| 2 | PROXY | Character | 2 | | No | 9-10 |
| 3 | R_AGE | Numeric | 4 | | No | 11-14 |
| 4 | R_SEX | Character | 2 | | No | 15-16 |
| 5 | CENSUS_D | Character | 2 | | No | 17-18 |
| 6 | CENSUS_R | Character | 2 | | No | 19-20 |
| 7 | WORKER | Character | 2 | | No | 21-22 |
| 8 | DRIVER | Character | 2 | | No | 23-24 |
| 9 | HHVEHCNT | Numeric | 4 | | No | 25-28 |
| 10 | HOWFARU | Character | 2 | | No | 29-30 |
| 11 | MSASIZE | Character | 2 | | No | 31-32 |
| 12 | TRPNUM | Numeric | 4 | | No | 33-36 |
| 13 | HHTRIPID | Numeric | 4 | | No | 37-40 |
| 14 | PERSONID | Numeric | 4 | | No | 41-44 |
| 15 | SEG1TIME | Numeric | 5 | | No | 45-49 |
| 16 | SEGITRAN | Character | 2 | | No | 50-51 |
| 17 | SEG1_MIN | Numeric | 5 | | No | 52-56 |
| 18 | SEG1_MIN SEG2TIME | Numeric | 5 | | No | 57-61 |
| 19 | SEG2TIME SEG2TRAN | Character | 2 | | No | 62-63 |
| 20 | SEG2_MIN | Numeric | 5 | | No | 64-68 |
| 21 | SEGZ_MIN SEG3TIME | Numeric | 5 | | No | 69-73 |
| 22 | SEG3TRAN | Character | 2 | | No | 74-75 |
| 23 | SEG3_MIN | Numeric | 5 | | No | 76-80 |
| 24 | SEG3_MIN SEG4TIME | Numeric | 5 | | No | 81-85 |
| 25 | SEG4TIME SEG4TRAN | Character | 2 | | No | 86-87 |
| 26 | SEG41KAN SEG4 MIN | Numeric | 5 | | No | 88-92 |
| 27 | SEGY_MIN SEGNUM | Character | 1 | | No | 93 |
| 28 | STRTTIME | Numeric | 5 | | No | 94-98 |
| 29 | TRANSFER | Character | 2 | | No | 99-100 |
| 30 | TRPMILES | Numeric | 14 | 2 | No | 101-114 |
| 31 | TRPTRANS | Character | 2 | 4 | No | 115-116 |
| 32 | TRVL_MIN | Numeric | 5 | | No | 117-121 |
| 33 | VARSTRAT | Numeric | 4 | | No | 122-125 |
| 33 34 | WHYTRP95 | Character | 2 | | No | 126-127 |
| 35 | WTTRDFIN | Numeric | 14 | 2 | No | 128-141 |
| 36 | DRVRCNT | Numeric | 4 | 4 | No | 142-145 |
| 37 | HHFAMINC | Character | 2 | | No | 146-147 |
| 38 | HHSIZE | Numeric | 4 | | No | 148-151 |
| 39 | HH_HISP | Character | 2 | | No | 152-153 |
| 40 | HH_RACE | Character | 2 | | No | 154-155 |
| 41 | | | 2 | | No | 156-157 |
| 42 | LIF_CYC | Character | 4 | | | |
| 42 | HHMSA RAIL | Character Character | 2 | | No No | 158-161 162-163 |
| | | Numeric | 4 | | | 164-167 |
| 44 45 | TDAY_MON TDAY YR | Numeric | 4 | | No No | 164-167 |
| 45 46 | WRKCOUNT | Numeric | 4 | | NO No | 172-175 |
| 46 | HHCMSA | Character | 4 | | NO No | 172-175 |
| 47 | | Numeric | 4 | | | 180-183 |
| 40 | SUBSTRAT | Numeric | 4 | | No | 100-103 |

FILE LAYOUT FOR PERTRP95.ASC

Number of data records: 29647
Date of last update: 08/29/97

| Date of | last update: | 08/29/ | 97 | | | |
|---------|--------------|-----------|-------|-----|-------|----------|
| | | _ | | _ | | Column |
| Field | Field Name | Type | Width | Dec | Nulls | Position |
| 1 | PROXY | Character | 2 | | No | 1-2 |
| 2 | R_AGE | Numeric | 4 | | No | 3-6 |
| 3 | R_SEX | Character | 2 | | No | 7-8 |
| 4 | DRIVER | Character | 2 | | No | 9-10 |
| 5 | CENSUS_D | Character | 2 | | No | 11-12 |
| 6 | CENSUS_R | Character | 2 | | No | 13-14 |
| 7 | WORKER | Character | 2 | | No | 15-16 |
| 8 | HHVEHCNT | Numeric | 4 | | No | 17-20 |
| 9 | MSASIZE | Character | 2 | | No | 21-22 |
| 10 | TRIPNUM | Numeric | 4 | | No | 23-26 |
| 11 | VARSTRAT | Numeric | 4 | | No | 27-30 |
| 12 | HOUSEID | Numeric | 8 | | No | 31-38 |
| 13 | DRVRCNT | Numeric | 4 | | No | 39-42 |
| 14 | HHFAMINC | Character | 2 | | No | 43-44 |
| 15 | HHSIZE | Numeric | 4 | | No | 45-48 |
| 16 | HH_HISP | Character | 2 | | No | 49-50 |
| 17 | HH_RACE | Character | 2 | | No | 51-52 |
| 18 | LIF_CYC | Character | 2 | | No | 53-54 |
| 19 | HHMSA | Character | 4 | | No | 55-58 |
| 20 | MSTR_MON | Numeric | 4 | | No | 59-62 |
| 21 | MSTR_YR | Numeric | 4 | | No | 63-66 |
| 22 | RAIL | Character | 2 | | No | 67-68 |
| 23 | SUM_STAT | Character | 3 | | No | 69-71 |
| 24 | TDAY_MON | Numeric | 4 | | No | 72-75 |
| 25 | TDAY_YR | Numeric | 4 | | No | 76-79 |
| 26 | TPER_BMO | Numeric | 4 | | No | 80-83 |
| 27 | TPER_BYR | Numeric | 4 | | No | 84-87 |
| 28 | TPER_EMO | Numeric | 4 | | No | 88-91 |
| 29 | TPER_EYR | Numeric | 4 | | No | 92-95 |
| 30 | TOWHYPAS | Character | 2 | | No | 96-97 |
| 31 | WRKCOUNT | Numeric | 4 | | No | 98-101 |
| 32 | HHCMSA | Character | 4 | | No | 102-105 |
| 33 | COUNTRY | Character | 3 | | No | 106-108 |
| 34 | DESTSTAT | Character | 2 | | No | 109-110 |
| 35 | HHTRPID | Numeric | 4 | | No | 111-114 |
| 36 | PERSONID | Numeric | 4 | | No | 115-118 |
| 37 | RET_MON | Character | 2 | | No | 119-120 |
| 38 | RET_YR | Character | 2 | | No | 121-122 |
| 39 | TOWHYTRP | Character | 2 | | No | 123-124 |
| 40 | TO_TRANS | Character | 2 | | No | 125-126 |
| 41 | WTTRPFIN | Numeric | 14 | 2 | No | 127-140 |
| 42 | CALCDIST | Numeric | 14 | 2 | No | 141-154 |
| 43 | DRVR_TPT | Character | 2 | | No | 155-156 |
| 44 | SUBSTRAT | Numeric | 4 | | No | 157-160 |
| 45 | HBPPOPDN | Numeric | 7 | | No | 161-167 |
| 46 | HBHUR | Character | 1 | | No | 168 |
| 47 | HBHRESDN | Numeric | 7 | | No | 169-175 |
| 48 | HBHINMED | Numeric | 7 | | No | 176-182 |
| | | | | | | |

[***]---> PROCC.SAS 1995 PUBLIC USE <---[***] 1
15:04 Friday, September 5, 1997

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----Directory----

Libref: DOT_PUBU

Engine: V611

Physical Name: C:\SASSTUFF\NPTS95PU\SSDFLS

Name Memtype Indexes

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2 HHOLD95 DATA

4 PERSON95 DATA

5 PERTRP95 DATA

6 SEGTRP95 DATA

7 VEHICL95 DATA

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15:04 Friday, September 5, 1997

CONTENTS PROCEDURE

Data Set Name: DOT_PUBU. DAYTRP95

Member Type: DATA

Engine: V611

Created: 15:22 Wednesday, August 27, 1997

Last Modified: 15:25 Wednesday, August 27, 1997

Protection: Compressed: NO

Data Set Type: Sorted: Sorted: NO

Label: 409025

Variables: 98

Indexes: 0

Observation Length: 316

Compressed: NO

Sorted: NO

----Engine/Host Dependent Information----

Data Set Page Size: 9728

Number of Data Set Pages: 13636

File Format: 607

First Data Page: 2

Max Obs per Page: 30

Obs in First Data Page: 21

-----Alphabetic List of Variables and Attributes-----

| # | Variable | Type | Len | Pos | Format | Label |
|----|----------|------|-----|-----|--------|--|
| 12 | AWAYHOME | Char | 2 | 34 | | Reason started day away from home |
| 6 | CENSUS_D | Char | 2 | 18 | | Census division |
| 7 | CENSUS_R | Char | 2 | 20 | | Census region |
| 13 | CHAIN | Num | 4 | 36 | | Trip chain number for this person |
| 14 | CHAINTRP | Num | 4 | 40 | | # of trip within chain |
| 15 | DATEFLG | Char | 2 | 44 | | Intrv date imputed as trav day plus 1 |
| 16 | DAYNIGHT | Char | 2 | 46 | | Trip started AM or PM G17A |
| 17 | DIFFDATE | Num | 4 | 48 | | Days between travel & interview dates |
| 18 | DRIVER | Char | 2 | 52 | | Person is a driver D9 |
| 78 | DRVRCNT | Num | 4 | 240 | | Number of drivers in HH |
| 19 | DRVR_FLG | Char | 2 | 54 | | 1= person drove on trip |
| 31 | DWELTIME | Num | 5 | 85 | | Time spent at destination of prev trip |
| 20 | EDITMILE | Char | 2 | 56 | | 1= trip miles were edited |
| 21 | EDITMODE | Char | 2 | 58 | | 1= transportation mode was edited |
| 36 | EDITNONH | Char | 2 | 102 | | 1= variable NONHHCNT was edited |
| 22 | EDIT_MIN | Char | 2 | 60 | | 1= trip duration was edited |
| 23 | FROM_A | Char | 1 | 62 | | Where trip chain started (H,W,S) |
| 24 | FRSTHM | Char | 2 | 63 | | 1=persons 1st trip began at home |
| 98 | HBHINMED | Num | 7 | 309 | | Median household income, BG |
| 97 | HBHRESDN | Num | 7 | 302 | | HU density (units/square mile), BG |
| 96 | HBHUR | Char | 1 | 301 | | Urban/rural code, block group |
| 95 | HBPPOPDN | Num | 7 | | | Population density, block group |
| 92 | HHCMSA | Char | 4 | 284 | | CMSA identification code |
| 79 | HHFAMINC | Char | 2 | 244 | | HH family income category |
| 25 | HHMEMDRV | Char | 2 | 65 | | 1= household member drove G37 |
| 83 | HHMSA | Char | 4 | 252 | | MSA identification code |
| 26 | HHSIZE | Num | 4 | 67 | | Total number of persons in HH |
| 68 | HHTRIPID | Num | 4 | 196 | | Trip number for household travel day |

| # | Variable | Туре | Len | Pos | Format | Label |
|----------|----------------------|--------------|--------|------------|--------|--|
| 28 | HHVEHCNT | Num | 4 | 75 | | No. of vehicles in household (derived) |
| 80 | HH HISP | Char | 2 | 246 | | Hispanic status of ref. person |
| 29 | HH_ONTRP | | 4 | | | # of HH members on the trip (derived) |
| 81 | HH_RACE | Char | 2 | 248 | | Race of reference person |
| 1 | HOUSEID | Num | 6 | 0 | | Household identification number |
| 30 | HOWFARU | Char | 2 | 83 | | Units of reported dist: B)locks, M)iles |
| 9 | INTRVMON | Num | 4 | 24 | | Person interview date - month |
| 10 | INTRVYR | Num | 4 | | | Person interview date - year |
| 82 | LIF_CYC | Char | 2 | 250 | | Family life cycle |
| 32 | MATCH | Num | 4 | | | ID of matching prev. reported trip |
| 33 | MSASIZE | Char | 2 | | | Size of MSA of household |
| 84 | MSTR_MON | | 4 | | | Date of master interview - month |
| 85 | MSTR_YR | Num | 4 | | | Date of master interview - year |
| 34 | NONHHACC | | 2 | | | 1= non-HH members on trip |
| 35 | NONHHCNT | | 4 | | | # of non-HH members on trip |
| 37 | NUMONTRP | _ | 4 | | | Total # of persons on trip (derived) |
| 67 | OVERLAP | | 1 | | | =1 if trip part of travel period trip |
| 38 | PASSPURP PERSONID | | 2 | | | Trip purpose for passenger |
| 69 39 | | | 4 2 | 200 110 | | Person ID number |
| 3 | PREVREP PROXY | Char Char | 2 | | | This trip also reported by other HH mem Proxy respondent for person data |
| 41 | PUBTRANS | _ | 2 | | | Used public transit (8 <trptrans<14)< td=""></trptrans<14)<> |
| 86 | RAIL | Char | 2 | 264 | | Presence/absence of rail |
| 87 | REF_AGE | Num | 4 | | | Age of reference person (yr) |
| 8 | REF EDUC | | 2 | | | Education of HH reference person |
| 88 | REF_SEX | Char | | | | Sex of ref person |
| 4 | R_AGE | Num | 4 | | | Age of sample person |
| 5 | R_SEX | Char | 2 | | | Sex of sample person |
| 42 | SEGMENTD | Char | 2 | 118 | | 1= if trip is segmented |
| 43 | SITMOST | Char | 2 | 120 | | Sit or stand most on trip |
| 44 | STANDSIT | Char | 2 | 122 | | 1=sat, 2=stood, 3=both on trip |
| 70 | STRTTIME | Num | 5 | 204 | | Start time of trip |
| 94 | SUBSTRAT | Num | 4 | | | Substratum within VARSTRAT |
| 89 | TDAY_MON | | 4 | | | Travel day date (MM) |
| 90 | TDAY_YR | Num | 4 | | | Travel day date (YY) |
| 45 | TO_B | Char | 1 | | | Where trip chain ended |
| 71 | TRANSFER | | 2 | | | =01 if changed mode from/to pub trans |
| 2 | TRAVDAY | | | 6 | | Travel day - day of week |
| 46 | TRAVWKND | | | | | Travel day on weekend (1=Y, 2=N) |
| 47 | TRPHHACC | Char | 2 | 127 | | Other HH mem were also on trip? |
| 48 72 | TRPHHVEH TRPMILES | Char Num | 2 8 | 129 211 | 6.1 | Was HH vehicle used on trip? Distance (miles) |
| 40 | TRPNUM | Num | 4 | 112 | 0.1 | Travel day trip number for sample person |
| 49 | TRPNUM A | Num | 4 | 131 | | Person trip # of first trip in chain |
| 50 | TRPNUM B | Num | 4 | 135 | | Person trip # of last trip in chain |
| 73 | TRPTRANS | Char | 2 | 219 | | Mode of transportation code |
| 74 | TRVL_MIN | Num | 5 | 221 | | Travel time (min) |
| 75 | VARSTRAT | Num | 4 | 226 | | Sample stratum |
| 27 | VEHID | Num | 4 | 71 | | HH vehicle number |
| 93 | VTR_FLG | Char | 2 | 288 | | 1=POV trip, respondent drove |
| 51 | WAIT_MIN | Num | 5 | 139 | | Time waited for transportation (min) |
| 52 | WHERE | Char | 1 | 144 | | H=home, W=work, S=other-specify |
| 53 | WHOACC_A | Num | 4 | 145 | | Roster # of other HH mem on trip G36 |
| 54 | WHOACC_B | Num | 4 | 149 | | Roster # of other HH mem on trip G36 |
| 55 | WHOACC_C | Num | 4 | 153 | | Roster # of other HH mem on trip G36 |
| 56 | WHOACC_D | | 4 | 157 | | Roster # of other HH mem on trip G36 |
| 57 | WHOACC_E | Num | 4 | 161 | | Roster # of other HH mem on trip G36 |
| 58 | WHOACC_F | Num | 4 | 165 | | Roster # of other HH mem on trip G36 |
| 59 | WHOACC_G | Num | 4 | 169 | | Roster # of other HH mem on trip G36 |
| 60 | WHOACC_H | Num | 4 | 173 | | Roster # of other HH mem on trip G36 |

| # | Variable | Type | Len | Pos | Format | Label |
|----|----------|------|-----|-----|--------|--------------------------------------|
| | | | | | | |
| 61 | WHOACC_I | Num | 4 | 177 | | Roster # of other HH mem on trip G36 |
| 62 | WHOACC_J | Num | 4 | 181 | | Roster # of other HH mem on trip G36 |
| 63 | WHODROVE | Num | 4 | 185 | | ID of HH mem who drove on trip G38 |
| 64 | WHYFROM | Char | 2 | 189 | | 1995 purpose - from |
| 65 | WHYTO | Char | 2 | 191 | | 1995 purpose - to |
| 66 | WHYTRP90 | Char | 2 | 193 | | Purpose of trip (1990 definition) |
| 76 | WHYTRP95 | Char | 2 | 230 | | Purpose of trip (1995 definition) |
| 11 | WORKER | Char | 2 | 32 | | Respondent is a worker |
| 91 | WRKCOUNT | Num | 4 | 280 | | No. of workers in HH |
| 77 | WTTRDFIN | Num | 8 | 232 | | Final travel day trip weight |

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[***]---> PROCC.SAS 1995 PUBLIC USE <---[***]
15:04 Friday, September 5, 1997
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CONTENTS PROCEDURE

Data Set Name: DOT_PUBU. HHOLD95

Member Type: DATA

Variables: 182

Engine: V611

Created: 10:58 Wednesday, August 20, 1997

Last Modified: 10:59 Wednesday, August 20, 1997

Protection: Compressed: NO

Data Set Type: Sorted: NO

Label:

----Engine/Host Dependent Information----

Data Set Page Size: 16384

Number of Data Set Pages: 1753

File Format: 607

First Data Page: 2

Max Obs per Page: 24

Obs in First Data Page: 14

----Alphabetic List of Variables and Attributes----

| # | Variable | Type | Len | Pos | Format | Label |
|-----|----------|------|-----|-----|--------|---|
| 6 | BUSBLOCK | Num | 4 | 14 | | Reported dist. to bus (blocks) |
| 7 | BUSMILE | Num | 4 | 18 | | Reported dist. to bus (miles) |
| 8 | BUS_AVL | Char | 2 | 22 | | Bus service available |
| 9 | BUS_DIST | Num | 8 | 24 | 6.1 | Distance to bus (miles) |
| 1 | CENSUS_D | Char | 2 | 0 | | Census division |
| 2 | CENSUS_R | Char | 2 | 2 | | Census region |
| 11 | DRVRCNT | Num | 4 | 38 | | Number of drivers in HH |
| 128 | GHMXIN | Num | 8 | 371 | | Basis for geocoding - household |
| 156 | HBHHSMLT | Num | 5 | 520 | | Percent multiple unit housing, BG |
| 157 | HBHHSOTH | Num | 5 | 525 | | Percent other housing, BG |
| 155 | HBHHSSNG | Num | 5 | 515 | | Percent single family housing, BG |
| 166 | HBHINCH | Num | 5 | 574 | | Percent HHs, income \$60000 and up, BG |
| 163 | HBHINCL | Num | 5 | 559 | | Percent HHs, income < \$15000, BG |
| 164 | HBHINCM1 | Num | 5 | 564 | | Percent HHs, income \$15000-\$39999, BG |
| 165 | HBHINCM2 | Num | 5 | 569 | | Percent HHs, income \$40000-\$59999, BG |
| 162 | HBHINMED | Num | 7 | 552 | | Median household income, BG |
| 161 | HBHMEDHS | Num | 7 | 545 | | Median housing unit value, BG |
| 160 | HBHRECNT | Num | 5 | 540 | | Percent units built last 10 years, BG |
| 154 | HBHRESDN | Num | 7 | 508 | | HU density (units/square mile), BG |
| 158 | HBHTNOWN | Num | 5 | 530 | | Percent owner-occupied housing, BG |
| 159 | HBHTNRNT | Num | 5 | 535 | | Percent renter-occupied housing, BG |
| 153 | HBHUR | Char | 1 | 507 | | Urban/rural code, block group |
| 134 | HBP65P | Num | 5 | 408 | | Percent 65 & older, block group |
| 133 | HBPCOLGD | Num | 5 | 403 | | Pcnt Colg Grads(over 25), block group |
| 135 | HBPFORBN | Num | 5 | 413 | | Percent foreign born 1990, block group |
| 136 | HBPHISP | Num | 5 | 418 | | Percent Hispanic, block group |
| 132 | HBPHSGD | Num | 5 | 398 | | Pcnt HS grads (over 25), block group |
| 131 | HBPLTPOV | Num | 5 | 393 | | Percent families below poverty, blk grp |
| 129 | HBPPOPDN | Num | 7 | 379 | | Population density, block group |
| 130 | HBPPOPNO | Num | 7 | 386 | | Current population, block group |
| 138 | HBPRCAA | Num | 5 | 428 | | Percent African-Am., block group |

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139 HBPRCASN Num
                     5 433
                                    Percent Asian- Am., block group
137 HBPRCCAU Num
                     5 423
                                    Percent White, block group
140 HBPRCOTH Num
                                    Percent Other races, block group
125 HHCMSA
                                    CMSA identification code
              Char
                        361
                                    # of eligible persons in HH
12 HHELGCNT Num
                        42
13 HHFAMINC Char
                     2 46
                                   HH family income category
 27 HHMSA
             Char
                     4 84
                                   MSA identification code
 14 HHRESP
                     2 48
                                   HH respondent
             Char
                     4 50
                                   Total number of persons in HH
 15 HHSIZE
             Num
                     2 54
                                    State postal code
 16 HHSTATE
             Char
17 HHSTFIPS Num
                                    State FIPS code
                     4 56
 3 HHVEHCNT Num
                     4 4
                                   No. of vehicles in household (derived)
 23 HH 0TO4
                     4 70
                                    Number of persons in HH age 0-4
            Num
 18 HH HISP
            Char
                     2 60
                                   Hispanic status of ref. person
 19 HH RACE
            Char
                     2 62
                                   Race of reference person
 20 HOMEOWN Char
                     2 64
                                    Tenure of housing unit
 21 HOMETYPE Char
                     2 66
                                    Type of housing unit
 10 HOUSEID Num
                     6 32
                                    Household identification number
 22 HSTORIES Char
                     2 68
                                    Stories in apt. building
                                  Jobs per square mile, census tract
Percent multiple unit housing, CT
181 HTEEMPDN Num
                     7 651
                                    Jobs per square mile, census tract
170 HTHHSMLT Num
                     5 592
171 HTHHSOTH Num
                     5 597
                                   Percent other housing, CT
169 HTHHSSNG Num
                     5 587
                                   Percent single family housing, CT
                     5 646
                                   Percent HHs, income $60000 and up, CT
180 HTHINCH Num
177 HTHINCL Num
                     5 631
                                   Percent HHs, income < $15000, CT
                                  Percent HHs, income $15000-$39999, CT
Percent HHs, income $40000-$59999, CT
178 HTHINCM1 Num
                    5 636
179 HTHINCM2 Num
                    5 641
                    7 624
176 HTHINMED Num
                                    Median household income, CT
175 HTHMEDHS Num
                    7 617
                                    Median housing unit value, CT
                                  Percent units built last 10 years, CT
HU density (units/square mile), CT
Percent owner-occupied housing, CT
Percent renter-occupied housing, CT
174 HTHRECNT Num
                    5 612
                    7 580
168 HTHRESDN Num
172 HTHTNOWN Num
                    5 602
173 HTHTNRNT Num
                     5 607
167 HTHUR
             Char 1 579
                                   Urban/rural code, census tract
182 HTINDRET Num
                                   Pct 16+ workplace pop, retl trd ind, CT
                     5 658
146 HTP65P
                     5 472
                                   Percent 65 & older, census tract
             Num
145 HTPCOLGD Num
                     5 467
                                   Pcnt Colq Grads(over 25), census tract
147 HTPFORBN Num
                     5 477
                                   Percent foreign born 1990, census tract
148 HTPHISP Num
                     5 482
                                   Percent Hispanic, census tract
144 HTPHSGD Num
                     5 462
                                   Pcnt HS grads (over 25), census tract
                     5 457
                                   Percent families below poverty, cen. r.
143 HTPLTPOV Num
                                  Population density, census tract
Current population, census tract
                    7 443
141 HTPPOPDN Num
142 HTPPOPNO Num
                    7 450
150 HTPRCAA
             Num
                    5 492
                                   Percent African-Am., census tract
151 HTPRCASN Num
                     5 497
                                  Percent Asian- Am., census tract
149 HTPRCCAU Num
                     5 487
                                  Percent White, census tract
                                   Percent Other races, census tract
                     5 502
152 HTPRCOTH Num
                                    # of ineligible persons in HH
26 INELGCNT Num
                     4 80
 24 LIF CYC
                                   Family life cycle
             Char
                     2 74
 04 MSASIZE
             Char
                     2 8
                                    Size of MSA of household
 08 MSTR MON Num
                     4 88
                                   Date of master interview - month
 29 MSTR YR
                     4 92
                                  Date of master interview - year
             Num
 30 NONFMFLG Char
                     2 96
                                   Non-family income reported for HH
                     2 98
                                   No. of weeks w/o telephone service
 31 NOTELWKS Char
 32 NOTELYR
             Char
                     2 100
                                   Without phone service in past yer?
 25 NUMADLT
             Num
                     4 76
                                    # of adults in HH
                     2 102
                                    Other public transit available
 33 OTHERPTR Char
 34 P10 AGE Num
                     4 104
                                    Age of person 10
                                   Driver status of person 10
 35 P10 DRVR Char
                     2 108
 36 P10 REL
             Char
                     2 110
                                   Person 10 relation to ref. person
 37 P10 SEX
             Char
                     2 112
                                    Sex of person 10
 38 P10 STAT Char
                     2 114
                                    Response status of person 10
```

| # | Variable | Туре | Len | Pos | Format | Label |
|-----|----------|------|-------|------|--------|---|
| 99 | REF_STAT | Cha | r | 2 2 | 56 | Response status of reference person |
| 100 | REF_WKR | Char | r | 2 2 | 58 | Worker status of reference person |
| 101 | RESP_CNT | Num | | 4 2 | 50 | # of respondents in HH |
| 102 | STCBLOCK | Num | | 4 2 | 54 | Reported dist to streetcar (blocks) |
| 103 | STCMILE | Num | | 4 2 | 58 | Reported dist to streetcar (miles) |
| 104 | STC_AVL | Chai | r | 2 2 | 72 | Streetcar service available |
| 105 | STC_DIST | Num | | 8 2' | 74 6.1 | Distance to streetcar (miles) |
| 106 | SUBBLOCK | Num | | 4 2 | 32 | Reported dist to subway (blocks) |
| 107 | SUBMILE | Num | | 4 2 | 36 | Reported dist to subway (miles) |
| 127 | | Num | | 4 3 | 57 | Substratum within VARSTRAT |
| 108 | _ | Char | r | | 90 | 01= if subway service is available |
| 109 | _ | Num | | | 92 6.1 | Distance to subway |
| 110 | SUM_STAT | Char | r | 3 3 | 0.0 | Summary status code for household |
| 111 | _ | Num | | | 03 | Travel day date (MM) |
| 112 | _ | Num | | | 07 | Travel day date (YY) |
| 113 | | Char | r | | 11 | No. of phone numbers in HH |
| 114 | _ | Chai | r | | 13 | No. of HHs this phone number serves |
| 115 | _ | Num | | | 15 | Travel period beginning date (MM) |
| 116 | _ | Num | | | 19 | Travel period beginning date (YY) |
| 117 | TPER_EMO | Num | | 4 3 | 23 | Travel period ending date (MM) |
| 118 | _ | Num | | 4 3 | 27 | Travel period ending date (YY) |
| 119 | | Num | | | 31 | Reported dist to train (blocks) |
| 120 | | Num | | | 35 | Reported dist to train (miles) |
| 121 | | Chai | | | 39 | 01= if commuter train service available |
| 122 | _ | | | - | 41 6.1 | Distance to commuter train |
| 126 | URBAN | Chai | r | | 55 | Urbanized area code |
| 5 | | | | | 10 | Sample stratum |
| 123 | | Num | | | 49 | No. of workers in HH |
| 124 | WTHHFIN | Num | | 8 3 | 53 | Final household weight |

[***]---> PROCC.SAS 1995 PUBLIC USE <---[***] 15:04 Friday, September 5, 1997

CONTENTS PROCEDURE

Observations: 95360 Data Set Name: DOT_PUBU. PERSON95 Variables: 176 Member Type: DATA Engine: V611 Indexes: U
Created: 10:59 Wednesday, August 20, 1997 Observation Length: 479
Last Modified: 11:00 Wednesday, August 20, 1997 Deleted Observations: 0 Engine: V611 Indexes: 0 Protection: Compressed: NO Data Set Type: Sorted: NO Label:

----Engine/Host Dependent Information----

Data Set Page Size: 14848
Number of Data Set Pages: 3181
File Format: 607
First Data Page: 2
Max Obs per Page: 30
Obs in First Data Page: 15

----Alphabetic List of Variables and Attributes----

| # | Variable | Type | Len | Pos | Format | Label |
|-----|----------|------|-----|-----|--------|---|
| 98 | ALWYSDRV | Char | 2 | 234 | | Always the driver? |
| 133 | CENSUS_D | Char | 2 | 308 | | Census division |
| 134 | CENSUS_R | Char | 2 | 310 | | Census region |
| 129 | DIARYCMP | Char | 2 | 300 | | Who completed diary |
| 131 | DIARYGET | Char | 2 | 304 | | Can get diary now |
| 130 | DIARYHAV | Char | 2 | 302 | | Have the diary now |
| 54 | DISTTOWK | Num | 8 | 120 | 6.2 | One-way distance to work |
| 9 | DRIVER | Char | 2 | 26 | | Person is a driver D9 |
| 145 | DRVRCNT | Num | 4 | 346 | | Number of drivers in HH |
| 13 | DTACDT | Char | 2 | 34 | | Worry about traffic accident |
| 10 | DTCONJ | Char | 2 | 28 | | Highway congestion |
| 18 | DTCRIME | Char | 2 | 44 | | Worry about crimes against motorists |
| 12 | DTNTFMLR | Char | 2 | 32 | | Unfamiliar local areas or neighborhood |
| 11 | DTPAVE | Char | 2 | 30 | | Rough pavement on highways |
| 15 | DTPOLLTN | Char | 2 | 38 | | Air pollution by cars, trucks, and uses |
| 17 | DTSTRTS | Char | 2 | 42 | | Rough pavement on neighborhood strets |
| 16 | DTTIEUP | Char | 2 | 40 | | Traffic tie-ups or road constructio |
| 14 | DTWALK | Char | 2 | 36 | | Poor walkways or sidewalks |
| 50 | EDUC | Char | 2 | 112 | | Highest grade or yr of school complted |
| 28 | FQSTBELT | Char | 2 | 64 | | How often wear seat belt when drivig |
| 52 | GT1JBLWK | Char | 2 | 116 | | Have more than one job last week |
| 163 | GWKXIN | Num | 8 | 404 | | Basis for geocoding - workplacelocation |
| 167 | HBHINMED | Num | 7 | 427 | | Median household income, BG |
| 166 | HBHRESDN | Num | 7 | 420 | | HU density (units/square mile), BG |
| 165 | HBHUR | Char | 1 | 419 | | Urban/rural code, block group |
| 164 | HBPPOPDN | Num | 7 | 412 | | Population density, block group |
| 161 | HHCMSA | Char | 4 | 396 | | CMSA identification code |
| 146 | HHFAMINC | Char | 2 | 350 | | HH family income category |
| 152 | HHMSA | Char | 4 | 364 | | MSA identification code |
| 147 | HHRESP | Char | 2 | 352 | | HH respondent |
| 148 | HHSIZE | Num | 4 | 354 | | Total number of persons in HH |
| 142 | HHVEHCNT | Num | 4 | 336 | | No. of vehicles in household (derived) |

Pay parking at work?

94 PAYTOPRK Char

2 220

| # | Variable | Туре | Len : | Pos 1 | Format | Label |
|----------|------------|--------------|-------|-------|--------|--|
| : | 2 PERSONID | Num | 4 | 6 | | Person ID number |
| : | 3 PROXY | Char | 2 | 10 | | Proxy respondent for person data |
| 2 | 7 PTCARND | Char | 2 | 62 | | Having access to a car when you need it |
| 2 | 5 PTCOST | Char | 2 | 58 | | Cost of travel by public transportation |
| 2 | 3 PTNTCLN | Char | 2 | 54 | | Transit stations/vehicles not clean |
| 2 | O PTCROWD | Char | 2 | 48 | | Difficulty w/ crowding or getting a eat |
| 2 | 2 PTCRIME | Char | 2 | 52 | | Worry w/ crime on public transportaton |
| 2 | 1 PTTIMEON | Char | 2 | 50 | | Time spent on public transportation |
| 2 | 6 PTTMND | Char | 2 | 60 | | Public transp avail time of day needed |
| 2 | 4 PTTRANSF | Char | 2 | | | Time and aggrevation with transferes |
| 1: | | Char | 2 | | | How often used public transportation |
| 15! | | Char | 2 | | | Presence/absence of rail |
| 15 | _ | Num | 4 | | | Age of reference person (yr) |
| 13 | _ | | 2 | | | Education of HH reference person |
| | 5 REF_ROST | | 4 | | | Reference roster number |
| 15' | | | 2 | | | Sex of ref person |
| | 6 R_AGE | Num | 4 | - | | Age of sample person |
| | 4 R_AGEFLG | | | 12 | | Age imputed |
| | 8 R_RELAT | Char | | | | Relationship to ref person |
| | 7 R_SEX | Char | | | | Sex of sample person |
| 13 | | Char | | | | Same place all day |
| 8! 9! | | Char | | | | Usually sit or stand most on AMTRAK |
| 9: | | | | | | Usually sit or stand most on bus Usually sit or stand most on subway |
| 9: | | | | | | Usually sit/stand most on strcr/trolley |
| 9: | | | | | | Usually sit or stand most on comm train |
| 8 | | Char | | | | Usually sit, stand or both on AMTRAK |
| 8! | | Char | | | | Usually sit, stand or both on bus |
| 8 | | Char | | | | Usually sit/stand/both on rail/subway |
| 8' | | Char | | | | Usually sit/stand/both on trtcr/trolley |
| 88 | | Char | 2 | 208 | | Usually sit/stand/both oncommuter train |
| 16 | 2 SUBSTRAT | Num | 4 | 400 | | Substratum within VARSTRAT |
| 15 | 8 TDAY_MON | Num | 4 | 384 | | Travel day date (MM) |
| 15 | 9 TDAY_YR | Num | 4 | 388 | | Travel day date (YY) |
| 5 | 6 TIMELEAV | Num | 4 | 130 | | Time usually leave for work |
| 5' | | Num | 4 | | | Minutes it took from home to work |
| 5. | | | | - | | Unit of distance to work |
| 9' | | Char | | | | Usually drive to work alone or carpool |
| 14 | | | 4 | | | Sample stratum |
| 7: | | | 4 | | | Minutes wait for AMTRAK |
| 81 | | Num | 4 | | | Minutes wait for bus |
| 8: | | | 4 | | | Minutes wait for elevated rail/subway |
| 8: | | | 4 | | | Minutes wait for streetcar/trolley |
| 8: 7: | | | 4 2 | | | Minutes wait for commuter train |
| 7. 6' | | Char Char | | | | Get to work usually by airplane Get to work usually by AMTRAK |
| 5 | | | | | | Get to work usually by AMIRAR Get to work usually by auto |
| 7: | | | | | | Get to work usually by bicycle |
| 6 | | Char | | | | Get to work usually by bus |
| 7 | | | | | | Worked from home |
| 6 | | | | | | Get to work usually by motorcycle |
| 6! | | | | | | Get to work usually by other POV |
| 7' | | | | | | Get to work by other means |
| 6 | | | | | | Get to work usually by other truck |
| 6 | | Char | | | | Get to work usually by RV |
| 7 | | Char | 2 | 162 | | Get to work usually by elev. ail/subway |
| 7 | 5 WKBYSCBS | Char | 2 | 172 | | Get to work usually by schoolbus |
| 6 | | | | | | Get to work usually by strtcar/trolley |
| 7: | | | | | | Get to work usually by taxi |
| 68 | 8 WKBYTRAN | Char | 2 | 158 | | Get to work usually by commuter train |

| # | Variable ' | Type | Len | Pos | Format | Label |
|-----|------------|------|----------|----------|--------|--|
| 61 | . WKBYTRUK | Chai | c | 2 14 | -4 | Get to work usually by pickup truck |
| 60 | WKBYUV | Chai | _ | 2 14 | 2 | Get to work usually by UV |
| 59 | WKBYVAN | Chai | <u>c</u> | 2 14 | 0 | Get to work usually by van |
| 74 | WKBYWALK | Chai | <u>c</u> | 2 17 | 0 | Get to work usually by walking |
| 122 | WKFMHM2M | Chai | _ | 2 28 | 32 | Worked from home any last two month? |
| 121 | WKFMHMLW | Chai | _ | 2 28 | 80 | Worked from home any last week? |
| 123 | WKFMHMXX | Chai | _ | 2 28 | 34 | How often worked from home-2 months |
| 128 | WORKDAYS | Num | | 4 29 | 6 | Days per week on job |
| 141 | WORKER | Chai | _ | 2 33 | 34 | Respondent is a worker |
| 176 | WORKLOC | Num | | 5 47 | 4 | Work location |
| 53 | WORKSTAT | Chai | <u></u> | 2 11 | .8 | State of workplace |
| 160 | WRKCOUNT | Num | | 4 39 | 2 | No. of workers in HH |
| 124 | WRKDRIVE | Chai | <u>_</u> | 2 28 | 36 | Drive lisensed vehicle in work |
| 126 | WRKMILES | Num | | 4 29 | 0 | Travel day miles driven on job |
| 78 | WRKTRANS | Chai | <u>_</u> | 2 17 | '8 | Main means of transportation to work |
| 125 | WRKTRPS | Chai | <u>_</u> | 2 28 | 88 | 10 or more trips on job during day |
| 127 | WRKVTYPE | Chai | <u>c</u> | 2 29 | 14 | Type vehicle driven on job |
| 168 | WTEMPLDN | Num | | 5 43 | 34 | Jobs per square mile, census tract |
| 169 | WTINDAGR | Num | | 5 43 | 19 | Pct 16+ workers, agr/mining/const, CT |
| 174 | WTINDFIN | Num | | 5 46 | 54 | Pct 16+ workers, fin/ins/rl est ind, CT |
| 170 | WTINDMAN | Num | | 5 44 | 4 | Pct 16+ workers, manuf. industries, CT |
| 173 | WTINDRET | Num | | 5 45 | 59 | Pct 16+ workplace pop, retl trd ind, CT |
| 175 | | Num | | 5 46 | | Pct 16+ workers, service industries, CT |
| 171 | | Num | | 5 44 | | Pct 16+ workers, tran/comm/ util ind, T |
| 172 | WTINDWHL | Num | | 5 45 | 54 | Pct 16+ workers, wholesale trade ind, CT |
| 135 | | Num | | 8 31 | | Final person wt person-nonresp adjusted |
| 48 | | Num | | 6 10 | | How many miles did you drive per year |
| 49 | YMILEFLG | Chai | <u>_</u> | 2 11 | .0 | Yearmile mileage was capped at 200,000 |

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[***]---> PROCC.SAS 1995 PUBLIC USE <---[***] 16
15:04 Friday, September 5, 1997
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CONTENTS PROCEDURE

Data Set Name: DOT_PUBU. PERTRP95

Member Type: DATA

Engine: V611

Created: 11:06 Wednesday, August 20, 1997

Last Modified: 11:06 Wednesday, August 20, 1997

Protection: Compressed: NO

Data Set Type: Sorted: NO

Label:

----Engine/Host Dependent Information----

Data Set Page Size: 8192
Number of Data Set Pages: 606
File Format: 607
First Data Page: 1
Max Obs per Page: 49
Obs in First Data Page: 11

-----Alphabetic List of Variables and Attributes-----

| # | Variable | Туре | Len | Pos | Label |
|----|----------|------|-----|-----|--|
| 42 | CALCDIST | Num | 5 | 132 | Calc distance home to destination |
| 5 | CENSUS_D | Char | 2 | 10 | Census division |
| 6 | CENSUS_R | Char | 2 | 12 | Census region |
| 33 | COUNTRY | Char | 3 | 103 | Destination country code |
| 34 | DESTSTAT | Char | 2 | 106 | Destination state |
| 4 | DRIVER | Char | 2 | 8 | Person is a driver D9 |
| 13 | DRVRCNT | Num | 4 | 36 | Number of drivers in HH |
| 43 | DRVR_TPT | Char | 2 | 137 | Person was the main driver on trip |
| 48 | HBHINMED | Num | 7 | 158 | Median household income, BG |
| 47 | HBHRESDN | Num | 7 | 151 | HU density (units/square mile), BG |
| 46 | HBHUR | Char | 1 | 150 | Urban/rural code, block group |
| 45 | HBPPOPDN | Num | 7 | 143 | Population density, block group |
| 32 | HHCMSA | Char | 4 | 99 | CMSA identification code |
| 14 | HHFAMINC | Char | 2 | 40 | HH family income category |
| 19 | HHMSA | Char | 4 | 52 | MSA identification code |
| 15 | HHSIZE | Num | 4 | 42 | Total number of persons in HH |
| 35 | HHTRPID | Num | 4 | 108 | Trip number for household travel eriod |
| 8 | HHVEHCNT | Num | 4 | 16 | No. of vehicles in household (derived) |
| 16 | HH_HISP | Char | 2 | 46 | Hispanic status of ref. person |
| 17 | HH_RACE | Char | 2 | 48 | Race of reference person |
| 12 | HOUSEID | Num | 6 | 30 | Household identification number |
| 18 | LIF_CYC | Char | 2 | 50 | Family life cycle |
| 9 | MSASIZE | Char | 2 | 20 | Size of MSA of household |
| 20 | MSTR_MON | Num | 4 | 56 | Date of master interview - month |
| 21 | MSTR_YR | Num | 4 | 60 | Date of master interview - year |
| 36 | PERSONID | Num | 4 | 112 | Person ID number |
| 1 | PROXY | Char | 2 | 0 | Proxy respondent for person data |
| 22 | RAIL | Char | 2 | 64 | Presence/absence of rail |
| 37 | RET_MON | Char | 2 | 116 | Return month of travel period trip |
| 38 | RET_YR | Char | 2 | 118 | Return year of travel period trip |
| 2 | R_AGE | Num | 4 | 2 | Age of sample person |

| | # | Variable | Type | Len | Pos | Format | Label |
|----|---|----------|------|-----|-----|--------|--|
| | | | | | | | |
| 3 | | R_SEX | Cha | r. | 2 | 6 | Sex of sample person |
| 44 | | SUBSTRAT | Num | ı | 4 | 139 | Substratum within VARSTRAT |
| 23 | | SUM_STAT | Cha | r | 3 | 66 | Summary status code for household |
| 24 | | TDAY_MON | Num | l | 4 | 69 | Travel day date (MM) |
| 25 | | TDAY_YR | Num | l | 4 | 73 | Travel day date (YY) |
| 30 | | TOWHYPAS | Cha | r. | 2 | 93 | Trip purpose for passenger |
| 39 | | TOWHYTRP | Cha | r | 2 | 120 | Trip purpose travel period trip |
| 40 | | TO_TRANS | Cha | r | 2 | 122 | Main transporation means - period trip |
| 26 | | TPER_BMO | Num | l | 4 | 77 | Travel period beginning date (MM) |
| 27 | | TPER_BYR | Num | l | 4 | 81 | Travel period beginning date (YY) |
| 28 | | TPER_EMO | Num | l | 4 | 85 | Travel period ending date (MM) |
| 29 | | TPER_EYR | Num | l | 4 | 89 | Travel period ending date (YY) |
| 10 | | TRIPNUM | Num | l | 4 | 22 | Persons travel period trip number |
| 11 | | VARSTRAT | Num | l | 4 | 26 | Sample stratum |
| 7 | | WORKER | Cha | r. | 2 | 14 | Respondent is a worker |
| 31 | | WRKCOUNT | Num | l | 4 | 95 | No. of workers in HH |
| 41 | | WTTRPFIN | Num | 1 | 8 | 124 | Final travel period trip weight |
| | | | | | | | |

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[***]---> PROCC.SAS 1995 PUBLIC USE <---[***] 18
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CONTENTS PROCEDURE

Data Set Name: DOT_PUBU .SEGTRP95

Member Type: DATA
Engine: V611
Created: 11:00 Wednesday, August 20, 1997
Last Modified: 11:00 Wednesday, August 20, 1997
Deleted Observations: 0

Protection: Compressed: NO Data Set Type: Sorted: NO

Label:

----Engine/Host Dependent Information----

Data Set Page Size: 8192
Number of Data Set Pages: 80
File Format: 607
First Data Page: 1
Max Obs per Page: 48
Obs in First Data Page: 11

----Alphabetic List of Variables and Attributes----

| # | Variable | Туре | Len | Pos | Format | Label |
|----|----------|------|-----|-----|--------|---|
| 5 | CENSUS D | Char | 2 | 14 | | Census division |
| 6 | CENSUS R | | 2 | 16 | | Census region |
| 8 | DRIVER | Char | 2 | 20 | | Person is a driver D9 |
| 36 | DRVRCNT | Num | 4 | 127 | | Number of drivers in HH |
| 47 | HHCMSA | Char | 4 | 161 | | CMSA identification code |
| 37 | HHFAMINC | Char | 2 | 131 | | HH family income category |
| 42 | HHMSA | Char | 4 | 143 | | MSA identification code |
| 38 | HHSIZE | Num | 4 | 133 | | Total number of persons in HH |
| 13 | HHTRIPID | Num | 4 | 34 | | Trip number for household travel day |
| 9 | HHVEHCNT | Num | 4 | 22 | | No. of vehicles in household (derived) |
| 39 | HH_HISP | Char | 2 | 137 | | Hispanic status of ref. person |
| 40 | HH_RACE | Char | 2 | 139 | | Race of reference person |
| 1 | HOUSEID | Num | 6 | 0 | | Household identification number |
| 10 | HOWFARU | Char | 2 | 26 | | Units of reported dist: B)locks, M)iles |
| 41 | LIF_CYC | Char | 2 | 141 | | Family life cycle |
| 11 | MSASIZE | Char | 2 | 28 | | Size of MSA of household |
| 14 | PERSONID | Num | 4 | 38 | | Person ID number |
| 2 | PROXY | Char | 2 | 6 | | Proxy respondent for person data |
| 43 | RAIL | Char | 2 | 147 | | Presence/absence of rail |
| 3 | R_AGE | Num | 4 | 8 | | Age of sample person |
| 4 | R_SEX | Char | 2 | 12 | | Sex of sample person |
| 15 | SEG1TIME | Num | 5 | 42 | | Start time for segment 1 |
| 16 | SEG1TRAN | Char | 2 | 47 | | Mode code for segment 1 |
| 17 | SEG1_MIN | Num | 5 | 49 | | Duration of segment 1 (min) |
| 18 | SEG2TIME | Num | 5 | 54 | | Start time for segment 2 |
| 19 | SEG2TRAN | Char | 2 | 59 | | Mode code for segment 2 |
| 20 | SEG2_MIN | Num | 5 | 61 | | Duration of segment 2 (min) |
| 21 | SEG3TIME | Num | 5 | 66 | | Start time for segment 3 |
| 22 | | Char | 2 | 71 | | Mode code for segment 3 |
| 23 | SEG3_MIN | Num | 5 | 73 | | Duration of segment 3 (min) |

| # | Variable | Type | Len | Pos | Format | Label |
|----|----------|------|-----|-----|--------|---------------------------------------|
| | | | | | | |
| 24 | SEG4TIME | Num | 5 | 78 | | Start time for segment 4 |
| 25 | SEG4TRAN | Char | 2 | 83 | | Mode code for segment 4 |
| 26 | SEG4_MIN | Num | 5 | 85 | | Duration of segment 4 (min) |
| 27 | SEGNUM | Char | 1 | 90 | | Number of segments (derived) |
| 28 | STRTTIME | Num | 5 | 91 | | Start time of trip |
| 48 | SUBSTRAT | Num | 4 | 165 | | Substratum within VARSTRAT |
| 44 | TDAY_MON | Num | 4 | 149 | | Travel day date (MM) |
| 45 | TDAY_YR | Num | 4 | 153 | | Travel day date (YY) |
| 29 | TRANSFER | Char | 2 | 96 | | =01 if changed mode from/to pub trans |
| 30 | TRPMILES | Num | 8 | 98 | 6.1 | Distance (miles) |
| 12 | TRPNUM | Num | 4 | 30 | | Travel day trip number for respondent |
| 31 | TRPTRANS | Char | 2 | 106 | | Mode of transportation code |
| 32 | TRVL_MIN | Num | 5 | 108 | | Travel time (min) |
| 33 | VARSTRAT | Num | 4 | 113 | | Sample stratum |
| 34 | WHYTRP95 | Char | 2 | 117 | | Purpose of trip (1995 definition) |
| 7 | WORKER | Char | 2 | 18 | | Respondent is a worker |
| 46 | WRKCOUNT | Num | 4 | 157 | | No. of workers in HH |
| 35 | WTTRDFIN | Num | 8 | 119 | | Final travel day trip weight |

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[***]---> PROCC.SAS 1995 PUBLIC USE <---[***] 20
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CONTENTS PROCEDURE

Data Set Name: DOT_PUBU. VEHICL95

Member Type: DATA

Veriables: 55

Engine: V611

Created: 9:42 Friday, September 5, 1997

Last Modified: 9:42 Friday, September 5, 1997

Protection: Compressed: NO

Data Set Type: Sorted: NO

Label:

----Engine/Host Dependent Information----

Data Set Page Size: 8192
Number of Data Set Pages: 1981
File Format: 607
First Data Page: 1
Max Obs per Page: 38
Obs in First Data Page: 4

----Alphabetic List of Variables and Attributes----

| # | Variable | Туре | Len | Pos | Format | Label |
|----|----------|------|-----|-----|--------|---|
| 10 | ANNMILES | Num | 5 | 34 | 6. | Self-Reported annualized vmt |
| 3 | ANNUALZD | Num | 8 | 14 | | Odometer based annualized vmt |
| 5 | ANN_EDIT | Char | 2 | 24 | | Flag any edits/adjustments to ANNUALZD |
| 4 | ANN_FLG | Char | 2 | 22 | | Reasons for missing ANNUALZD |
| 6 | ANN_OUT | Char | 2 | 26 | | Flag identifying ANNUALZD outlier alues |
| 55 | ANULZDSE | Num | 8 | 203 | | Standard error of ANNUALZD estimate |
| 7 | CENSUS_D | Char | 2 | 28 | | Census division |
| 8 | CENSUS_R | Char | 2 | 30 | | Census region |
| 25 | DRVRCNT | Num | 4 | 82 | | Number of drivers in HH |
| 54 | HBHINMED | Num | 7 | 196 | | Median household income, BG |
| 53 | HBHRESDN | Num | 7 | 189 | | HU density (units/square mile), BG |
| 52 | HBHUR | Char | 1 | 188 | | Urban/rural code, block group |
| 51 | HBPPOPDN | Num | 7 | 181 | | Population density, block group |
| 41 | HHCMSA | Char | 4 | 139 | | CMSA identification code |
| 26 | HHELGCNT | Num | 4 | 86 | | # of eligible persons in HH |
| 27 | HHFAMINC | Char | 2 | 90 | | HH family income category |
| 32 | HHMSA | Char | 4 | 102 | | MSA identification code |
| 28 | HHSIZE | Num | 4 | 92 | | Total number of persons in HH |
| 11 | HHVEHCNT | Num | 4 | 39 | | No. of vehicles in household (derived) |
| 29 | HH_HISP | Char | 2 | 96 | | Hispanic status of ref. person |
| 30 | HH_RACE | Char | 2 | 98 | | Race of reference person |
| 1 | HOUSEID | Num | 8 | 0 | | Household identification number |
| 31 | LIF_CYC | Char | 2 | 100 | | Family life cycle |
| 12 | MAINDRVR | | 2 | 43 | | Does one HH mem. usually drive this veh |
| 13 | MAKECODE | Char | 2 | 45 | | First 2 char of NASS code |
| 14 | MILELIMT | Char | 2 | 47 | | =1 if annmiles capped at 115K |
| 15 | MODLCODE | Char | 3 | 49 | | Last 3 char of NASS code |
| 9 | MSASIZE | Char | 2 | 32 | | Size of MSA of household |
| 33 | MSTR_MON | Num | 4 | 106 | | Date of master interview - month |
| 34 | MSTR_YR | Num | 4 | 110 | | Date of master interview - year |
| 42 | OD_DAY1 | Num | 4 | 143 | | Date of first odometer reading - day |
| 45 | OD_DAY2 | Num | 4 | 155 | | Date of second odomete reading - day |

| # | Variable | | | | Format | Label |
|----|----------|------|-------|-----|--------|--|
| 43 | OD MON1 | | 4 | 147 | | Date of first odometer reading - month |
| 46 | OD_MON2 | Num | 4 | 159 | | Date of second odomete reading - month |
| 48 | OD_READ1 | Num | 5 | 167 | | First odometer reading |
| 49 | OD_READ2 | Num | 5 | 172 | | Second odometer reading |
| 44 | OD_YR1 | Num | 4 | 151 | | Date of first odometer reading - year |
| 47 | OD_YR2 | Num | 4 | 163 | | Date of second odomete reading - year |
| 16 | PURCHMON | Num | 4 | 52 | | Month of purchase |
| 23 | PURCHYR | Num | 5 | 73 | | Year vehicle was purchas (yyyy) |
| 35 | RAIL | Char | 2 | 114 | | Presence/absence of rail |
| 50 | SUBSTRAT | Num | 4 | 177 | | Substratum within VARSTRAT |
| 36 | SUM_STAT | Char | 3 | 116 | | Summary status code for household |
| 37 | TDAY_MON | Num | 4 | 119 | | Travel day date (MM) |
| 38 | TDAY_YR | Num | 4 | 123 | | Travel day date (YY) |
| 24 | VARSTRAT | Num | 4 | 78 | | Sample stratum |
| 17 | VEH12MNT | Char | 2 | 56 | | Vehicle received in last 12 mo |
| 2 | VEHID | Num | 6 | 8 | | HH vehicle number |
| 18 | VEHMILES | Num | 5 | 58 | | Reported mileage for last 12 mo |
| 19 | VEHNEW | Char | 2 | 63 | | Purchased new (=1) or used (=2) |
| 20 | VEHTYPE | Char | 2 | 65 | | Vehicle type |
| 21 | VEHYEAR | Num | 4 | 67 | | Model year of veh (yyyy) |
| 22 | WHOMAIN | Char | 2 | 71 | | Who drives veh most of time |
| 39 | WRKCOUNT | Num | 4 | 127 | | No. of workers in HH |
| 40 | WTHHFIN | Num | 8 | 131 | | Final household weight |

APPENDIX J DOCUMENTATION NOTES

NOTES ON THE DATA FILES

Conventions followed include the following:

Yes/No questions- coded as 01 = yes and 02 = no.

Calendar Dates- separate variables were constructed for the month, day and year of reported dates. An exception is the variable TDAY_ALL, in which the households travel day date is formated (YYMMDD).

Times - all reported time variables are in military time from 0000 to 2359.

Legitimate skip codes- questions intentionally skipped in the instrument were generally denoted by a field filled with 9's with a 4 in the last digit.

Dont know - responses of don't know or not ascertained were generally denoted by a field filled with 9's with an 8 in the last digit.

Refused - responses of refused were generally denoted by a field completedly filled with 9's

Survey weights- there is one only one weight variable on each file. It is the weight that is appropriate for use in preparing tabulations of data from that file.

NOTES ON SPECIFIC VARIABLES

- **ANNUALZD** Estimate of annual mileage for the vehicle, computed by Oak Ridge National Laboratory based upon two reported odometer readings and other data.
- **ANULZDSE** Estimated standard error of the ANNUALZD value, computed by Oak Ridge National Laboratory.
- **BUS_DIST** Responses in blocks have been converted to miles, using 9 blocks per mile (less than one block converted to 0.1 mile).
- **CALCDIST** Straight-line (curve of the earth) distance between the geocoded

household location and the reported destination city for the travel period trip.

CHAIN NOTE: The chains described here were created to recode trip purposes to those used in the 1990 NPTS. They do NOT necessarily represent chains that would be created in a traditional trip chaining

analysis.

Each trip reported for a respondent was assigned to a 'chain', after ordering the person's travel day trips by STRTTIME from 4:00am to 3:59am.. Trips with missing STRTTIME values were sorted to the beginning of the list. All trips within a chain are sequentially numbered in the variable CHAINTRP. Variables TRPNUM_A and TRPNUM_B identify the first and last trips in each chain. The variables FROM_A and TO_B identify the origin and destination of the chains in terms of home, work or other location (H, W, S). Some of these chains do not begin or end at either home or work, as some respondents did not take such trips. Also, some persons reported only a single trip on travel day, such as returning home from vacation. It is possible to select a subset of chains that are anchored by home and work using FROM_A and TO_B. Note that some 'chains' involve only one or two trips and would be excluded from most trip chaining analyses.

DAYNGHT2 New variable to revised DAYNIGHT. The original DAYNIGHT was mis-coded on some records.

DISTTOWK Questionnaire responses of 996 = less than one block and 997 = one-half mile have been converted to miles using 9 blocks per mile. This travel day trip file variable has special codes of 9993.0= no fixed workplace; 9994.0=legitimate skip; 9995.0=works at or out of home; 9998.0=not ascertained; and 9999.0=refused.

DRVR_FLG This variable was re-coded from '01" meaning yes to '02" on some records. '01" indicates that the sample person drove on the trip, from the originally released data. (*Changed August 1999*)

DRVR_FLG was inaccurately coded "01" for trips other than personally operated vehicles (TRPTRANS modes '01" through "08"). For records where the TRPTRANS variable was not "01" through "08" but show the DRVR_FLG as being "01", that DRVR_FLG variable was changed to "02".

DRVR_TPT Imputed variable indicating that the respondent was the driver on the (personally-owned vehicle) travel period trip. The variable was imputed by Oak Ridge National Laboratory staff based on analysis of the travel

period trips reported by all members of the household.

DWELSEC2 This new variable corresponds to DWELTIM2, but in seconds. It is Anticipated that most people using this data set will be using the SAS software package. As SAS internal uses time variable in seconds, this was provided for ease in use to generate time calculations.

DWELTIME The time spent at the destination of the previous trip, as calculated from the variables STRTTIME and TRVL_MIN for travel day trips. Not computed for each persons first trip nor for trips where these variables were not known or refused. The DWELTIME values were used in defining trip chains and the 1990 NPTS trip purpose variables. Note that some of the reported trip start times and durations resulted in negative values of the variable DWELTIME; editing of trips for persons with negative values led to correction of some duplicate trip reporting and AM/PM reporting problems.

DWELTIM2

This is a new variable comparable to DWELTIME except that DWELTIM2 is the time spent at the destination of the current record and is calculated using the revised STRTTIM2 variable. This correctly coincides with the trip purpose of the destination, so if dwell times were estimated by purpose, the analysis would straightforward. Negative dwell times were set to missing.

The dwell times were calculated for the minutes spent at the destination of the previous trip, before the starting the current trip (the record on which the public use data set posted dwell time). This variable is missing for each persons first trip of the day, and when the start time of the trip (STRTTIME) or the minutes in travel (TRVL_MIN) were not known.

The negative dwell time occurred because of the respondents mistakes in relaying information about the start time of the previous trip, and the total minutes the trip took, in relation to the start time of the next trip. Of the 321,024 records with calculated dwell times 11,246 were negative. If these were included in an analysis, the average dwell time would be 117 minutes, if they are excluded, the average is 122 minutes.

DWEL2_HM This new variable corresponds to DWELTIME2, and in easy to read HH:MM format.

FROM A See CHAIN

HHFAMINC The categories of household income were determined from responses to the questions in Section K and are coded as follows:

01 = less than \$5,000

02 = \$5,000 to \$9,999

03 = \$10,000 to \$14,999

04 = \$15,000 to \$19,999

05 = \$20,000 to \$24,999

06 = \$25,000 to \$29,999

07 = \$30,000 to \$34,999

08 = \$35,000 to \$39,999

09 = \$40,000 to \$44,999

09 = \$40,000 to \$44,999

10 = \$45,000 to \$49,999

11 = \$50,000 to \$54,999

12 = \$55,000 to \$59,999

13 = \$60,000 to \$64,999

14 = \$65,000 to \$69,999

15 = \$70,000 to \$74,999

16 = \$75,000 to \$79,999

17 = \$80,000 to \$99,999 18 = \$100,000 and over

HHTRIPID

A sequential numbering of the travel day trips reported by all members of the household. These numbers run from 1 to 72 and from 101 to 119; the latter are trips recorded in supplemental files. Missing trip number indicate that some reported trips have been deleted or combined with other trips.

HHZIP

Note that 00098 = not ascertained and 00099 = refused.

LIF CYC

The life cycle variable was derived from the households reported number of adults, number and age of children, and whether or not any persons were reported to be retired. Households were classified as follows:

| No. Adults | Any retired? | Youngest Child | LIF_CYC |
|------------|--------------|----------------|---------|
| 1 | no | none present | 1 |
| 2 or more | no | none present | 2 |
| 1 | N/A | 0 - 5 | 3 |
| 2 or more | N/A | 0 - 5 | 4 |

| 1 | N/A | 6 -15 | 5 |
|-----------|-----|--------------|----|
| 2 or more | N/A | 6 - 15 | 6 |
| 1 | N/A | 16 - 21 | 7 |
| 2 or more | N/A | 16 - 21 | 8 |
| 1 | yes | none present | 9 |
| 2 or more | yes | none present | 10 |

MATCH A variable whose value is the HHTRIPID for a previously reported trip.

MSASIZE Classification of the households by MSA population:

1 = Less than 250,000

2 = 250,000 - 499,999

3 = 500,000 - 999,999

4 = 1,000,000 - 2,999,999

5 = 3,000,000 or more

94 = not in an MSA or legitimate skip

Pi_STAT The Pi_STAT variables indicate the response status of each household member (i = 1, 2, ...) in the variables P1_STAT, P2_STAT, etc. The codes for these variables are the following:

| Code | Description |
|------|-----------------------------|
| 1 | Ineligible - too young |
| 2 | Other ineligible |
| 3 | Complete - self interview |
| 4 | Complete - proxy interview |
| 5 | No contact made |
| 6 | Refused |
| 7 | Contact made - time expired |
| 8 | Other non-interview |

Pi_REL One of the household members is identified as the households reference person; that is, the person or one of the persons who owns or rents the home. The reference person may or may not be the household respondent. The Pi_REL variables show the relationship of each household member (all ages included) to the reference person, as reported in question D-7.

PREVREP A variable that indicates the trip had been reported previously, by another respondent from the same household, prior to the current persons interview. When several family members were present on a trip, several travel questions were asked only of the first person who reported the trip.

PTCRIME Worry with crime on public transportation". Data labels were reversed in the public use data set, with PTNTCLN. This variable is correction to the original release.

PTNTCLN "Transit stations/vehicle not clean" Data labels were reversed in the Public use data set, with PTCRIME. This variable is correction to the original release.

PUBTRANS Variable indicating public transit was the main means of transportation for the trip. For the 1995 NPTS, public transit includes travel by bus, Amtrak, commuter train, streetcar/trolley, and subway/elevated rail.

R_AGE The variable R_AGE is reported by individual year of age from ages 5-75. For confidentiality reasons, ages 76-102 are consolidated in groups as follows:

77 = Ages 76-79

82 = Ages 80-84

88 = Ages 85-102

The consolidated numbers above reflect the arithmetic mean of the ages for each group, thus they can be used in computing average age.

Primary stratification variable defined in order to over-sample large (at least 1,250,000 population) urban areas with subway/elevated rail systems. Due to special sample allocations needed to implement the add-on samples in New York and Massachusetts, the variable did not apply for the New York City and Boston areas.

RET YR The value 98 indicates that the date was not determined.

STC_DIST Responses in blocks have been converted to miles, using 9 blocks per mile (less than one block converted to 0.1 mile).

STRTTIM2 New variable revising STRTTIME. There were some inconsistencies in The original STRTTIME.

STRTTIME was mis-coded as '1099'. When examine the trip records

before and after is was found that the actual time should have been coded as '1059', '1200', '159' or '9998'. The STRTTIME and STRTTIM2 variables are the trip begin times in military time format.

SUB_DIST Responses in blocks have been converted to miles, using 9 blocks per mile (less than one block converted to 0.1 mile).

SUBSTRAT Sub-stratum within each VARSTRAT major stratum. SUBSTRAT = 1 indicates the household telephone number was selected from blocks of 100 telephone numbers containing zero listed numbers; SUBSTRAT = 2 indicates selection from sub-stratum of blocks containing one or more listed numbers per 100-block.

TO_B See CHAIN

TRPMILES This variable gives the distance in miles of the recorded trip. Actual distance was coded from 0-1200 miles. Less than a mile is re-coded on the TRPMILES variable in the original release.

9,338 records coded as one block or less (9996) are re-coded as .1 22,265 records coded as less than half a mile (9997) are re-coded as .5

Trip of less than a mile were supposed to be coded as either 9996 (less than one block) or 9997 (half mile). In the original Public Use Dataset, some trips were coded as .5 for half a mile or less, and some as 9997. The changes were made to consistently code these variable and to eliminate unnecessary code for estimating miles.

TRPNUM

The identification of the travel day trips reported by a household member. The CATI program allowed up to 15 trips in the trip roster; additional trips were recorded in supplemental files and numbered from 21 to 39. Missing trip numbers indicate that some reported trips were deleted or combined with other trips.

TRIPNUM2
This new variable compares to TRPNUM. This variable TRIPNUM2 is used to be used to chronologically reorder the trips within each person's records. Resorting the file by HOUSEID, PERSONID and TRIPNUM2 enables a user to more accurately examine trip chaining.

TRPNUM_A See CHAIN.

TRPNUM_B See CHAIN

- **TRN_DIST** Responses in blocks have been converted to miles, using 9 blocks per mile (less than one block converted to 0.1 mile).
- **TRVL_MIN** Note the special codes of 9998 = not ascertained and 9999 = refused.
- Defined for the 1995 NPTS based upon the population density of the Census block containing the household. Urban (01) = at least 1,000 persons per square mile; not urban (02) = less than 1,000 persons per square mile; and not ascertained (98) = the household location was not geocoded.
- VARSTRAT This variable identifies the geographic strata used in sample selection.

 To protect respondent confidentiality, particularly in the add-on areas, the definition of the specific codes for this variable are not published.
- **VEHTYPE** The vehicle type, sport utility vehicle, was added in the 1995 survey. In the 1990 NPTS, most of the sport utility vehicles were classified as automobiles.
- VTR_FLG Variable used to count vehicle trips. Value of 01 indicates the trip was a privately-owned vehicle trip and the respondent was the driver; 02 = either not a privately-owned vehicle trip, or the respondent was not the driver.
- WHYTRP95 Question G-20 determined the purpose of each trip in the 1995 NPTS. There were 17 possible purpose codes, including to return home. Interviewers used purpose 15, to change means of transportation, only when they couldn't determine another purpose for the trip; these trips were recoded or combined with adjacent trips during editing. Each travel day trip was also assigned a FROM and TO purpose, WHYFROM and WHYTO, based on the responses to questions G-12 through G-21. These two variables may be used to describe trips in another way, for example, a trip from home to school.

WHY FROM See WHYTRP95

WHYTRP90 The 1995 NPTS travel day trips were also recoded to mimic the 1990 NPTS trip purpose definitions. The 1990 trip purpose codes differed in several ways from the 1995 purpose codes. Returning home was not a 1990 NPTS trip purpose; rather, the trip purpose was assigned to the activity that was the main reason the person was away from home. If one of the reasons was work, the return trip home was assigned work as its purpose. If there were multiple purposes for being away from home and

work was not one of them, then the activity the person spent the most time at before leaving that activity was assigned as the main purpose for the return trip home.

WHYTO See WHYTRP95

WKFMHMLW This variable includes a yes=01 value for those persons who said they worked at home in response to questions F-4 or F-5.

WKFMHM2M The variable includes a yes=01 value for those persons who said they worked at home in response to questions F-4, F-5, or F-19.

WKFMHMXX This variables includes a value of 01 = two or more days a week for each person who said they worked at home in response to questions F-4 or F-5.

WORKER Response to question D-12 of the household interview, verified or corrected by the person interview response to question F-2.

WTHHFIN Final household weight, adjusted for non-response and non-coverage. Used to weight all household- and vehicle-level data.

WTPERFIN Final adjusted person weight, adjusted for non-response and non-coverage. Used to weight all person-level data.

WTTRDFIN Final travel day weight, used to weight data from the travel day trip file and the segmented travel day trip file. Calculated as 365 times each person's WTPERFIN, to adjust trip-level data to annual estimates.

YEARMIL2 A new variable comparable to YEARMILE. This variable was corrected based on findings since the original release of the data.

Numerous data users had questioned the earlier annual average miles driven because there were declines in per driver VMT between 1990 and 1995 in virtually all age/gender categories other than me 65 or older.

This seemed incongruous, given the overall strong increase in travel during this time. Upon checking, we found that in 1990 only 2 percent of the drivers reported driving no miles during the year, while 9 percent of drivers reported driving no miles in 1995. Of the 9 percent, a significant number indicated that they actually did drive, either on their assigned Travel Day or as the primary driver of one of the household vehicles.

Because we believe that the report of 'no miles' is an error for these drivers, these zero-values were changed to 'miles not reported'. After this edit, only about one and a half percent of all drivers remained in the 'no miles category." The new estimates of vehicle miles of travel in each age group for 1995 shown in the following table.

VMT per Driver by Age and Sex Revised October 1998, Office of Highway Information Management, FHWA

| Age | Male | : | | Female | | |
|---------|--------|--------|---------|--------|--------|---------|
| | 1990 | 1995 | %change | 1990 | 1995 | %change |
| 16-19 | 9,543 | 8,203 | -14.0% | 7,387 | 6,870 | -7.0% |
| 20-34 | 18,310 | 17,980 | -1.8% | 11,174 | 12,001 | +7.4% |
| 35-54 | 18,871 | 18,859 | 0.0% | 10,539 | 11,463 | +8.8% |
| 55-64 | 15,224 | 15,844 | +4.1% | 7,211 | 7,795 | +8.1% |
| 65+ | 9,162 | 10,320 | +12.6% | 4,750 | 4,788 | +0.1% |
| ALL (1) | 16,536 | 16,553 | 0.0% | 9,528 | 10,143 | +6.45 |

The revised data show modest increases of generally less than 10% for most age/gender groups. The big exception is the 16-19 year-old group, where miles declined between 1990 and 1995. This is probably the result of changes in the survey weighting process between 1990 and 1995, which resulted in a large increase in the number of persons age 16-19. Of course, with more individuals in this teenage group in 1995, the average miles per driver would decline. Other factors at work may also include delayed licensing laws and/or higher auto insurance premiums for young drivers.

For men, the most dramatic increases in travel were for those 65 and older. Younger men, namely those 20-54 may finally be reaching saturation in their travel. Women's travel shows a very different pattern, with declines in the youngest group (16-19), consistent increases of 7 to 8 percent for those 20 through 64, and no change in average travel for those 65 and older.

WTTRPFIN Final travel period weight, used to weight data from the travel period trip file. Calculated as WTTRDFIN divided by 14, to adjust trip-level data to annual estimates.

APPENDIX K CALCULATION OF ANNUALIZED MILEAGE ESTIMATES BASED ON ODOMETER READINGS

Odometer readings for NPTS vehicles were recorded for different time intervals (Table K-1). Mileage differences between odometer readings recorded for individual vehicles reflect driver and household characteristics, as well as seasonal effects on driving.

Table K-1
Time Interval between Two Odometer Readings Recorded for NPTS Vehicles

| Percent of NPTS vehicles* | Time interval between two readings |
|---------------------------|------------------------------------|
| 1% | ≤ 1½ months |
| 24% | 1½ - 2 month |
| 25% | 2 - 3¾ months |
| 25% | 3¾ - 6 months |
| 20% | 6 - 10½ months |
| 5% | 10½ - 18¾ months |

^{*} Applied to 42,319 vehicles that have two valid recording dates.

In this appendix, we discuss a method used to "annualize" the number of miles driven between two odometer readings to an estimate of annual driving. In essence, this method adjusts individual vehicle's mileage rates for seasonality. In Section K.1, we discuss data screening necessary before fitting an annualization model and computing annualized estimates. This was an important step, unfortunately, because more than half of the NPTS vehicles were not suitable for this annualization procedure. In Section K.2, the choice of statistical model—a linear model—for the seasonality adjustments is discussed. In Section K.3, we describe the mechanics of computing the annualized estimates as well as standard errors for the estimates. Though brief, part of Section K.3

is technical. Technical background may be found in most any text on linear models, for example, Searle (1971). In Section K.4, we discuss: (1) some adjustments to the annualized driving estimates, and (2) outlier screening and data quality flags based on the annualized estimates. Finally, we outline data-quality limitations in Section K.5.

K.1 Preliminary Data Screening

There were 75,217 vehicles sampled in the 1995 NPTS. Data on many (44%) of them were incomplete, however, in the sense that one or more of the starting and ending odometer readings or one or both of the recording dates were missing. Some of the remaining 56% "complete" observations were anomalous: negative amount of driving between two recording dates, or the difference between odometer readings implying more than 1,440 miles (= 24 hour × 60 miles/hour) of driving per day. About 0.6% of the 75,217 vehicles had a recording period shorter than six weeks, and were excluded from the annualization process since we believe that such short periods would tend to lead to anomalous annualized estimates. Since driver characteristics influence the amount of driving done in the driver's designated vehicle, 5.5 percent of the vehicles were excluded from the annualization calculations because they did not have a designated "primary" driver. Also, motorcycles and vehicles with "other" and "don't know" vehicle types were excluded. As summarized in Table K.2, this screening procedure reduced the original 75,217 vehicles to 36,109 vehicles for which annualized mileage estimates were made.

The NPTS data on odometer mileages and days-of-recording exhibit a lot of variability. This makes annualization difficult, and impacts the quality of the annualized estimates. Among the 36,109 vehicles remaining after the preliminary data screening, 378 (about 1%) had a difference between two odometer readings exceeding 160,000 miles per year and 580 of them had their differences more than 115,000 miles per year. The 115,000 mile figure was considered to be a reasonable upper limit for the annual miles driven in a vehicle, and was used as a cap for the self-reported annual mileage estimates. Users of the annualized estimates should understand the limits imposed by outliers and data variability.

Table K.2 Preliminary Data Screening of the 1995 NPTS Vehicles

| Data Problem | Number of Vehicles | Percent |
|---|-----------------------|---------|
| Incomplete data — odometer readings and/or recording dates missing | 32,811 | 43.60 |
| Negative differences between 2 odometer readings | 1,040 | 1.40 |
| Differences between 2 odometer readings too large (more than 1,440 miles per day) | 53 | 0.07 |
| Odometer readings recorded less than six weeks apart | 419 | 0.56 |
| Incomplete data and negative odometer | 33 | 0.04 |
| Negative miles and less than six weeks of data | 16 | 0.02 |
| Mileage too large and less than six weeks of data | 5 | 0.00 |
| No primary driver associated with the vehicle | 4,099 | 5.50 |
| Motorcycles, "other," "don't know" vehicle types | 632 | 0.84 |
| Vehicles with usable data (none of the above) | 36,109 | 48.00 |
| Total 1995 NPTS Vehicles | 75,217 | 100.00 |

K.2 Choice of Model

The choice of a predictive statistical model should depend on: (1) knowledge of the modeled process; (2) properties of the input data with respect to the number of observations, tendency to have outliers, goodness of model fit, etc.; and (3) mathematical tractability. Mathematical tractability refers to ease of doing computations. Linear models tend to be tractable; nonlinear models can be intractable, for example, because of starting-value or convergence problems. Mathematical tractability is especially important in our application because of the large number of observations and the large number of potential

predictors: education level of the primary driver, MSA size, vehicle age and type, and so on. Because the NPTS data are noisy with respect to the goal of estimating the annual miles of driving based on odometer readings, data variability and the tendency to have outliers are an important consideration. The coefficient of variation of our final prediction model is 1.83, and the (36,109) regression residuals are right skewed, typical of high noise scenarios. While the average of the residuals was of course zero, their 1 and 99 percentiles, for example, were -74.6 and 391.2 miles per year, indicating a wide range of the residuals.

A natural model for the total miles observed for an individual vehicle is

total miles
$$\propto (\sum_{\text{day } i} \theta_i) \times (\text{factor for class}) \times \text{error},$$
 (1)

where "day i" refers to the days in an interval of recording, θ_i is the contribution for day-of-the-year i or perhaps "month-day-of-week" (e.g., January Sunday, November Wednesday); and "factor for class" is a multiplier determined by the class. A class is defined as a particular combination of demographics, vehicle age and type, and other variables. These variables are called class variables. The "factor for class" should be greater than one for classes of vehicles in which their primary drivers drive a lot, and less than one for classes of vehicles in which their primary drivers do not drive much. Because a mileage total is modeled here, both the class and error adjustments enter multiplicatively. Because mileages in the NPTS survey were recorded for intervals of varying starting dates and lengths, the summation is needed in (1), rather than a single θ -term, representing an individual month or day. The variable-length intervals thus make annualization more difficult.

Unfortunately, the model (1) is not as tractable as we would like. It is nonlinear. Although appropriate for right-skewed data, a logarithmic transformation does not make the model linear because of the summation. Logarithms may, in any case, be

inappropriate for annualization because they introduce bias. To see this, consider a simple example. Suppose we have just 12 vehicles, each observed for exactly one month, January through December, and suppose there is just one class of vehicles (i.e., these 12 vehicles have identical independent variables). Also suppose there are no day-of-theweek effects, and for simplicity, assume a year is twelve months with exactly thirty days each. Then the annualized mileage per day (mpd) estimate for each vehicle should be the arithmetic mean of the mpd's for all vehicles. On the other hand, if we transform to the log scale, the annualized log mpd estimate for each vehicle would be the arithmetic mean of the log-mpd's for all vehicles. Then the question becomes how we compute the annualized mpd from the annualized log-mpd. If we just take the anti-log of the annualized log-mpd, we get the geometric mean of the mpd's. (The geometric mean is the anti-log of the arithmetic mean of the logs.) It is well-known that the geometric mean is always less than or equal to the arithmetic mean, and that inequality is strict unless all observations are the same. Thus the anti-log of the annualized log-mpd is biased.

If the mpd's were known to be log-normal, we could mathematically correct for the bias. Unfortunately, there is no good basis for assuming log-normality here. In general, there is no way to correct for the bias induced by the log transformation without making some kind of parametric distribution assumption. Thus, although the model (1) is sensible, it has the disadvantage of being nonlinear, not amenable to the log transformation, which would not linearize it anyway, and not very tractable.

To overcome the aforementioned problems, we considered the model

rate =
$$\frac{\text{total miles between 2 readings}}{\text{number of days}} = \frac{1}{\text{number of days}} \left(\sum_{\text{month-day } i} \theta_i \right) + (\text{term for class}) + \text{error.}$$
 (2)

This model is linear, and is thus more tractable than model (1). It is similar to (1), but,

because the dependent variable is a rate rather than a total, the additive (rather than multiplicative) adjustments for class and error are reasonable. For the sake of simplicity, we also took θ_i to represent month-day (i.e., month-day-of-week) here rather than day of the year. Thus, for example, if there are two January Sundays in a period of recording, then the θ term for January Sundays would be added in twice. The "number of days" denominator is necessary because the θ 's represent contributions to the total—the more days, the more θ 's—whereas the overall expression is a rate (miles per day).

Here is a simplified example. (A complete example, involving all of the levels of all of the class variables used to fit the model, would be less clear than a simplified one.) Suppose there are just two class variables, say, vehicle age class and vehicle type. Then the class term in our model might be of the form

$$\alpha_i + \beta_i + \gamma_{ij}$$

where α_i is the contribution above the intercept for the i^{th} vehicle age class (main effect of age), β_j is the contribution above the intercept for the j^{th} vehicle type (main effect of vehicle type), and γ_{ij} is the contribution above and beyond the $\alpha_i + \beta_j$ for the i^{th} vehicle age class and the j^{th} vehicle type jointly (two-way interaction of vehicle age and type). Suppose a vehicle's mileage is recorded for January 1-8, 1995 (an overly short interval taken for simplicity). Since 1995 began with a Sunday, this interval represents two January Sundays, and one-each for the other January weekdays. If the vehicle age class is "1" (less than one year old) and the vehicle type is "2" (= van), then the model (2) is

rate = intercept +
$$\frac{1}{8} (2\theta_1 + \theta_2 + \theta_3 + ... + \theta_7) + \alpha_1 + \beta_2 + \gamma_{12} + \text{error},$$

where $\theta_1,...,\theta_7$ are the terms for January days of the week, Sunday through Saturday. Because the model is linear, estimates of the α , β , γ , and θ terms can be computed using software such as the SAS GLM (general linear model) procedure. Then, by revising the

expression involving the θ 's, an annualized rate can be estimated. In the revision, the expression involving the θ 's in the model (2) is changed to

$$\frac{1}{365.25} \sum_{month-day i} \frac{\text{Days in month of month-day } i}{7} \theta_i$$

where the sum now extends over all 7×12=84 month-days in a year. These calculations are discussed further in the next subsection.

A model similar to model (2) was derived by Kunert, Hu, and Young (1995) in their analysis of the 1990 NPTS data. Odometer readings were not recorded in the 1990 NPTS. Rather, the amount of driving was recorded for a single designated travel day. Thus, their model had terms to adjust the driving for the particular "travel day." The adjustments in our case are for intervals of, in most cases, many travel days. The class terms in our model were taken from the Kunert et al model, with the following two exceptions: (1) We added terms for the number of drivers in the household. (2) We included all two-way interaction terms. The household driver terms were added on the basis of engineering judgement. Assessing the importance of any of these model terms is difficult. This is because with sample sizes as large as the NPTS data's and with numerous terms for each class variable (because of the interactions) nearly every variable had some statistically significant terms. Fortunately, our primary task here is prediction—annualizing mileage estimates; assessing the importance of the various factors is secondary.

K.3 Computation of the Annualized Estimates

This section contains technical material that may be beyond the interest of the casual reader. The GLM procedure in SAS was used to fit the annualization model. Class variables were education level and age of the primary driver (SAS variable name *educ* and *r_age*, respectively), household composition (*lif_cyc*), vehicle age (created from variable *vehyear*), vehicle type class (*vehtype*), size of MSA (*msasize*), census division (*census_d*),

and household number of drivers per vehicle (created from variables *hhvehcnt* and *drvrcnt*). There are 3,175,000 possible combinations of these classes; obviously not all are represented in the NPTS data. In theory, the two-way interaction model provides some smoothing to adjust out anomalies in low-frequency (i.e., small sample-size) classes.

The multipliers (independent variables) of the terms for "month-day" (the θ -terms) were computed in a preliminary SAS data step. These multipliers were entered into a linear model with all main effects and two-way interactions for the class variables. As an intercept term was included in the model, the last $(84^{th}) \theta$ was dropped. (See, for example, Searle, 1971. This reduction to full rank results in no loss of generality; the other independent variables and corresponding parameters are similarly reduced in the GLM algorithm.) The resulting model had 994 degrees of freedom. After data screening (see below), 36,109 observations were used to fit the model, or about 36 observations per degree of freedom (i.e., model parameter).

After fitting the model with SAS' proc GLM, annualized estimates could be computed with it. According to the model,

$$Y = X \hat{\beta} + R,$$

where Y is the vector of observed average daily mileages (based on odometer readings), X is the matrix of independent variables (reduced to full rank), $\hat{\beta}$ is the (reduced) vector of model parameter estimates, and R is the vector of residuals. To "annualize" the observed mileage rates, we simply revise X so that it reflects, for each vehicle, travel for a year rather than for the recording time period for that vehicle. Thus each month-day term is set to

$$\frac{\text{number days in month}}{7 \times 365.25}.$$
 (3)

With the number of days in February taken to be 28.25, the sum of these terms over days-of-the-week and months (for one year) is 1. Call this modification of X, X^* . With X^* and the same $\hat{\beta}$ (and $X^*\hat{\beta}$ the seasonally adjusted mean) and the residual vector R, a vector of seasonally-adjusted annualized estimates is

$$Y^* = X^* \hat{\beta} + R.$$

To compute the standard errors of these annualized estimates, notice that

$$Y^* = X^* \hat{\beta} + R = X^* (X'X)^{-1} X'Y + (I-P)e$$

$$= X^* \beta + X^* (X'X)^{-1} X'e + (I-P)e = X^* \beta + (P^* + I - P)e,$$

where $P = X(X'X)^{-1}X'$, $P^* = X^*(X'X)^{-1}X'$, β is the "true" parameter vector, and e is the vector of errors ($Y = X\beta + e$). Here "' denotes matrix transpose. We have also used here the fact that R = (I-P)e. Therefore (using a property of the variance of linear functions), where V denotes the variance of an individual y-value (daily mileage rate),

$$Cov(Y^*) = V(P^* + I - P)(P^* + I - P)' = V(P^*P^{*'} + P^*(I - P) + (I - P)P^{*'} + I - P).$$

It is straightforward to verify that $P^*(I-P) = 0$. It follows that

$$Cov(Y^*) = VP^*P^{*'} + V(I-P),$$

and that for y^* an element of Y^* and x^* and r, the corresponding elements of X^* and R,

$$stderr(y^*) = [(stderr(x^*\hat{\beta}))^2 + (stderr(r))^2]^{1/2}.$$

The standard error of y^* is straightforward to compute in SAS, because $stderr(x^*\hat{\beta})$ is the standard error of a predicted mean value, and stderr(r) is the standard error of a residual, both of which can be output directly with proc GLM.

The above seasonally-adjusted daily mileage rates and their standard errors were converted to annual rates (miles driven per year) and standard errors by multiplying them by 365.25. In addition to these annualized estimates (SAS variable *annualzd*) and standard errors (*stderr*), alternative "crude" estimates (*mtd365*) were computed by multiplying 365.25 by each crude daily rate (i.e., the difference between odometer readings for a vehicle divided by the number of days in the recording period of that vehicle.) Standard errors (*std365*) for these estimates were also computed, as above, except no month-day terms were included in the linear model. Crude mileage estimates and standard errors can likewise be computed for any time period, in particular, the periods for which the odometer readings were taken.

K.4 Outlier Screening

Despite the extensive preliminary data screening, the remaining data and annualized estimates are noisy. Certain common-sense restrictions are violated. For example, some of the annualized estimates are less than the difference between odometer readings (for periods of less than one year). Some of the annualized estimates are negative. To understand how this can happen, remember that the dependent variable of the model is a daily **rate** (odometer mileage per day of recording). The annualized daily rate can easily be less than the crude daily rate of the dependent variable, and, especially when the corresponding residual is negative and large, the annualized rate can be less than the difference between two odometer readings itself. The model has no constraint to automatically prevent this.

Estimates that violated common-sense restrictions were adjusted as follows. For vehicles whose recording period was less than one year, if the annualized estimate was

less than the difference between two odometer mileage (this includes negative estimates), the annualized estimate was set to be the difference between two odometer readings itself. For any annualized estimate whose recording period was more than 365 days, a negative annualized estimate was set to the crude estimate (mtd365), and an annualized estimate greater than the corresponding difference between two odometer readings was set to be the difference between two odometer readings. Also, annualized estimates greater than 115,000 were set to be 115,000. This cap was set to be consistent with the cap used on the self-reported estimates of annual driving (annmiles). These changes were made with the following frequencies.

Table K-3. Codes for Adjustments to Annualized Estimates of Driving

| Code | Frequenc | Percent | Meaning |
|--------------|----------|---------|--|
| (no code) | 32,289 | 89.4 | No adjustment was made |
| 1 | 3,800 | 10.5 | Number of days between two readings less than 366, and annualized estimate less than difference between odometer readings; annualized set to difference between odometer readings. |
| 2 | 16 | .0 | Number of days between two readings greater than 365, and annualized estimate greater than difference between odometer readings; annualized set to difference between odometer readings. |
| 3 | 4 | .0 | Number of days between two readings greater than 365, and annualized estimate negative; annualized set to crude estimate*. |
| Total | 36,109 | 100.0 | (All) |

^{*}The crude estimate is 365.25 times the odometer difference divided by days in observation period.

Although adjustments of Code 1 had to be made for 3,800 household vehicles, the adjustments were minor in nearly all cases, amounting to less than 2,000 miles for all but 799 household vehicles, and less than 5,000 miles for all but 111 vehicles (.3% of 36,109). (A SAS variable *ann_edit* flags these adjustments, though per a modification discussed in the next section.)

After making these adjustments, each adjusted annualized estimate was compared to its "crude" analog (*mtd365*) and to a corresponding self-reported estimate (annual miles driven reckoned by driver). Outlier codes were then assigned on the basis of these comparisons and subjectively determined thresholds (Table K-4). Because the self-reported estimates were considered less reliable than the crude estimates, the thresholds are tighter for the crude-vs-annualized comparisons. Codes based on comparisons of the

annualized and the crude estimates were only assigned if the difference exceeded 5,000 miles. Codes based on comparisons of the annualized and the self-reported estimates were only assigned if the difference exceeded 10,000 miles. The outlier codes are recorded as numeric codes (SAS variable *ann_out*) as indicated in Table K-4. Out of the 36,109 vehicles whose annual miles driven were estimated based on their odometer readings, 32,153 (89%) are considered to have reasonable annualized estimates (i.e., not outliers).

Table K-4. Outliers Codes of Annualized Estimates of Driving

| Code | Numeric Code (for SAS output) | Frequency | Percent | Criteria | |
|--------------|-------------------------------------|-----------|---------|--|--|
| (no code) | (no code) | 32,153 | 89.0 | Not an outlier | |
| а | 2 | 1,164 | 3.2 | Annualized ^a < Reported ^b / 4 and Annualized - Reported > 10,000 | |
| b | 5 | 2,293 | 6.3 | Annualized > 4 × Reported and Annualized - Reported > 10,000 | |
| А | 1 | 336 | 0.9 | Annualized < Crude ^c / 2 and Annualized - Crude > 5,000 | |
| Aa | 3 | 83 | 0.2 | (A and a) | |
| В | 4 | 75 | 0.2 | Annualized > 2 x Crude and Annualized - Crude > 5,000 | |
| Bb | 6 | 5 | 0.0 | (B and b) | |
| Total | | 36,109 | 100.0 | (all) | |

^a Estimates of annual driving based on two odometer readings (annualzd).

K-.5 Limitations

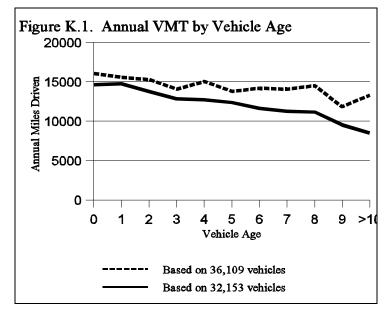
b Driver self-reported annual mileage estimate (annmiles).

^c 365.25 times the difference between odometer readings divided by days in observation time interval (*mtd365*).

The outlier flags in Table K-4 could indicate either data quality problems or issues pertinent to the annualization model. Data quality problems are those embedded in the information collected from the survey respondents. Issues pertinent to the model are those resulting from the annualization process. As previously mentioned, there are data quality problems. Most of the time the flags indicate such problems. To illustrate more generally the magnitude of these data problems, we calculated the correlation between the annualized and crude estimates to be 0.998. Thus there is very good agreement between the annualized estimates and the actual data (i.e., differences between two odometer readings). However, the correlation between either the annualized or crude estimates and the self-reported estimates is only 0.11, indicating that the self-reported miles driven in a year bear little relationship to the annual miles driven esti ated based on the odometer readings. Now, if we restrict attention to the 32,153 observations that were not assigned any of the outlier flags in Table K-4, then the correlation between the annualized and the self-reported estimates increases considerably to 0.62. This implies that if we remove the problematic data, then the self-reported miles driven in a year relate significantly more to the annual miles driven estimated based on the odometer readings than if problematic data

were included in the calculation (0.62 vs. 0.11, respectively). This illustrates that the magnitude of the data quality problems is substantial compared to the issues related to the annualization process.

For another example of data quality problems, we compare the average annual miles driven per vehicle (i.e., VMT) by age of the vehicle (Figure K.1). The first set of averages are for all 36,109



annualized estimates with a mileage cap of 115,000, while the second set are for the

32,153 unflagged annualized estimates.

For the 32,153 unflagged estimates, the steadily decreasing trend of annual miles driven with vehicle age seems much more consistent with those observed in other data sources than the corresponding, much less even, results for the 36,109 vehicles. In these data, the cap was used to deal with anomalous, high mileages. Without the mileage-cap, the comparison becomes even more polar. For this reason, annualized estimates that exceeded 115,000 miles were capped at 115,000 in the final NPTS data set. Quality flags (ann_edit) in the final NPTS data set are summarized in Table K-5. To maintain reasonable analysis results, users are urged not to overlook these data quality flags.

Table K-5 Final Codes for Adjustments to the Final Annualized Estimates

| Code | Frequenc | Percent | Criteria |
|--------------|----------|---------|--|
| (no code) | 31,721 | 87.8 | No adjustment |
| 1 | 3,799 | 10.5 | Number of days less than 366, and annualized estimate less than difference between odometer readings; annualized set to odometer difference. |
| 2 | 16 | .0 | Number of days greater than 365, and annualized estimate greater than difference between odometer readings; annualized set to odometer difference. |
| 3 | 4 | .0 | Number of days greater than 365, and annualized estimate negative; annualized set to crude estimate*. |
| 4 | 568 | 1.6 | None of above, but mileage exceeds 115,000; capped at 115,000 miles. |
| 5 | 1 | .0 | As in 1 above, and capped at 115,000 |
| Total | 36,109 | 100.0 | (All) |

^{*} The crude estimate is 365.25 times the odometer difference divided by the number of days in the reporting period.

References: Kunert, U., Hu, P., and Young, J. (1995). "Framework for the Expansion and the Analysis of the 1995 Nationwide Personal Transportation Survey Odometer Reading Data," (unpublished report).

Searle, S. R. (1971). Linear Models, John Wiley & Sons, New York.

APPENDIX L TRACT AND BLOCK GROUP VARIABLES

WHY ADD THESE VARIABLES

These variables were added to describe the characteristics of the areas where the NPTS survey respondents live and work. This allows the data analyst to look for patterns in travel behavior, not only by individual characteristics, but by neighborhood characteristics. The data user can examine how characteristics such as population density, mix of housing type and housing value, and characteristics of the population in the neighborhood such as age, income, and race/ethnicity may affect individual travel behavior.

TYPICAL NPTS HOUSEHOLD

For example, the respondents from our typical NPTS household, Keith and Terry, live in a townhouse and have a combined annual household income of \$35,000-\$40,000. The neighborhood that they live in (at the tract level) is a mix of single family homes and townhouses and apartments. Single family homes make up only 20% of the housing units in this census tract. Keith and Terry's income is above the median household income in that tract, which is \$27,000. Is their travel more like people who live in townhouses in other neighborhoods, or is their travel more like other people who live in single family detached houses in their neighborhood or other neighborhoods like it? The tract and block group variables allow an examination of these similarities and differences.

SOURCE OF TRACT AND BLOCK GROUP DATA

The data contained in these variables was derived from 1990 Census data and estimated forward to 1995 by Claritas, Inc. An annual demographic update is developed by this company to serve as a source of estimates of population, household, and housing unit characteristics. These estimates are made at relatively small units of geography, such as census tracts and block groups, which make this update effective for use in supplementing the NPTS data. The update is a comprehensive process that relies on a number of data sources, including regional and city planning agencies, federal agencies (e.g., Bureau of Labor Statistics, Bureau of Census, Bureau of Economic Analysis) U.S. Postal Service, the direct mail industry, the real estate industry, and experts in the fields of geographic information systems and mapmaking.

WORKPLACE CHARACTER-ISTICS

In addition to the characteristics of the residential neighborhood, characteristics of the workplace location were also appended to the file. Because these workplace variables are only present if the respondent is a worker, they are found on the Person file along with the other personal characteristics.

WHY WORKPLACE

Previous studies have shown that mode choice is a function not just of residential density, but also of employment density, (Reference: work by Larry Frank and Gary Pivo), characteristics of the workplace are as important and residential characteristics. Different types of jobs and industries offer different opportunities and impedances in travel choices.

VARIABLE NAMING SCHEME

The variable names were designed so that:

- many of these variables would fall together in an alphabetic listing, and
- the variable name would help in describing the contents.

The naming scheme is:

First letter - H for household descriptor

W for workplace descriptor

Second letter - B for block group level data

T for tract level data

Third letter of

Household variables - H for housing characteristic

P for population characteristic.

For example, HTHRESDN is a household descriptor, at the tract level, describing a housing characteristic, specifically, residential density (RESDN).

The last 5 letters of the variable describe the data in the variable, e.g. LTPOV = below poverty. Note that letters 4 -5 or 4-6 may serve a grouping function as well. For example, the three variables listed below describe the type of housing, and HS is used as letters 4-5 in all three variables:

HBHHSMLT - percent multiple unit housing, block group

HBHHSOTH - percent other housing, block group HBHHSSNG -percent single family housing, block group.

The variables, which can be identified in the codebook by the designation "CLAR" in the Section column, are:

HOUSEHOLD DESCRIPTOR, BLOCK GROUP LEVEL HBHHSMLT - percent multiple unit housing

HBHHSOTH - percent other housing

HBHHSSNG - percent single family housing

HBHINCH
 HBHINCL
 HBHINCM1
 HBMINCM2
 Percent households, income less than \$15,000
 percent households, income \$15,000-\$39,999
 HBMINCM2
 Percent households, income \$40,000-\$59,999

HBHINMED - median household income HBHMEDHS - median housing unit value

HBHRECNT - percent housing units built in last 10 years

HBHRESDN - housing units per square mile
HBHTNOWN - percent owner-occupied housing
HBHTNRNT - percent renter-occupied housing
HBHUR - urban/rural code (see below)
HBP65P - percent of population 65 and older

HBPCOLGD - percent of population college grads
HBPFORBN - percent of population foreign born
HBPHISP - percent of population Hispanic

HBPHSGD - percent high school grads of 25+ population

HBPLTPOV - percent families below poverty

HBPPOPDN - population density (persons per square mile)

HBPOPNO - current population

HBPRCAA - percent African-American HBPRCASN - percent Asian-American

HBPRCCAU - percent white HBPRCOTH - percent other race

HOUSEHOLD DESCRIPTOR, TRACT LEVEL These are the same as the Block Group variables, but a "T" (tract) replaces the "B" (block group) in the second letter of the variable name. There are 2 additional household descriptor variables at the tract level that are related to the amount of employment in the residence census tract:

HTEEMPDN - jobs per square mile

HTINDRET - percent of the workplace population in retail trade.

Both of these were added to give a picture of the degree of business activity at the residence end. The second variable, retail trade employment, provides a measure of the accessibility to goods and services. This is useful in determining if there is a chance for mode substitution, such as walking instead of driving.

WORKPLACE DESCRIPTOR

All of the workplace descriptors are at the census tract level.

WTEMPLDN - jobs per square mile

WTINDAG - percent of workers in agriculture, mining, or construction

WTINDFIN - percent of workers in finance, insurance or real estate

WTINDMAN - percent of workers in manufacturing industries WTINDRET - percent of workers in retail trade industries WTINDSVC - percent of workers in service industries WTINDTRN - percent of workers in transportation,

communication or public utilities

WTINDWHL - percent of workers in wholesale trade industries.

URBAN-RURAL CONTINUUM

The remainder of the Appendix describes the urban/rural continuum developed by Claritas, Inc. These variables:

HTHUR: Urban/rural code, census tract
HTBUR: Urban/rural code, block group
should not be confused with the variable URBAN, which is the
urbanized area status of the sample household. The categories
of the Urban/Rural Continuum, and the distribution of NPTS
households within these categories, are:

| | Households in NPTS block group level | Percent of households block | Household s in NPTS tract level | Percent of households tract level |
|-------------|---|-----------------------------|---------------------------------------|-----------------------------------|
| Urban | 5,960 | 14.18 | 6,006 | 14.29 |
| Second City | 8,811 | 20.96 | 8,549 | 20.34 |
| Suburb | 10,017 | 23.83 | 10,179 | 24.22 |
| Town | 10,243 | 24.37 | 10,139 | 24.12 |
| Rural | 6,669 | 15.87 | 6,827 | 16.24 |

| Subtotal | 41,700 | 99.21 | 41,700 | 99.21 |
|--------------------|--------|--------|--------|--------|
| Not Ascertained | 333 | 0.79 | 333 | 0.79 |
| Total | 42,033 | 100.0% | 42,033 | 100.0% |

BACK-GROUND OF URBAN-RURAL

Claritas, Inc. developed an urban-rural dimension to incorporate into their lifestyle cluster system, which is used primarily for research and marketing applications. The goal was to establish objective classifications that were less boundary-dependent than previous topologies.

URBAN-RURAL VARIABLE

The classification that is reflected in the Urban/Rural variable is based on population density, but not just the density of a specific geography, but the density in context of its surrounding area, or "contextual density". To establish this classification, the United States was divided into a grid to reduce the impact of variation in size (land area) of census tracts and block groups. Density was converted into centiles, that is, the raw numbers (persons per square mile) were translated into a scale from 0 to 99.

"Rural" (centiles 19 and less) and "small town" (centiles 20 to 39) definitions are based solely on the density. Population centers were defined if a route through the 8 neighboring cells could be constructed in which the density of successive cells was decreasing or equal. Population centers with centiles greater than 79 were designated "urban." Other centers were classified as "second cities." Finally, "suburban" areas of the population centers were defined, using both the cell density and the cell's density relative to the population center's density.

Reference: David R. Miller and Ken Hodges, "A Population Density Approach to Incorporating an Urban-Rural Dimension into Small Area Lifestyle Clusters." Paper presented at the Annual Meeting of the Population Association of America, Miami, Florida, May 1994.

APPENDIX M TRIP PURPOSE CODING AND TRIP PURPOSE VARIABLES

PURPOSE OF APPENDIX

The NPTS is the only source of national data on the purposes of daily travel by members of U. S. households. As such, it is widely used to describe and analyze the reasons associated with trips and travel. This Appendix is included to provide information on how trip purposes are coded in the 1995 NPTS, and to describe the substantial changes made in trip purpose coding between the 1990 and 1995 NPTSs.

OVERVIEW

The trip purposes used in the 1995 NPTS are:

Work

Work-related

Return to work (for work-based trips)

Family and Personal Business

Shopping

Medical or dental

Take someone somewhere (dropoff)

Pick up someone

Other family & personal business

School

Religious activity

Social & Recreational

Vacation

Visit friends and relatives

Out to eat

Other social and recreational

Return Home

Other

Each trip purpose is defined in the Glossary (Appendix D). The individual purposes are listed on the travel day and travel period files. Depending on the application, the user may want to aggregate the appropriate purposes into the major categories, Family and Personal Business and Social and Recreational.

The 1995 NPTS trip purpose, WHYTRP95, was determined by

question G.20 for each reported travel day trip. Question G.20 reads "What was the main purpose of the trip to (destination)?" There were 17 possible purpose codes, including to return home. Interviewers used purpose #15, change means of transportation, only when they couldn't determine another purpose for the trip. These change means trips were recoded or combined with adjacent trips during editing.

Each travel day trip was also assigned a FROM and TO purpose, WHYFROM and WHYTO, based on the responses to questions G.12 through G.21, the inventory of the day's trips and the purpose of each. These two variables, WHYFROM and WHYTO may be used to describe trips in another way. For example, a trip "from home to school", rather than a trip "to school".

PURPOSE CHANGES IN 1995

The 1995 trip purposes represent a fairly significant departure from the purposes used in earlier NPTSs. For the typical user, the trip purpose changes were probably the most significant questionnaire content change in 1995.

The 1995 NPTS uses a FROM and TO concept of trip purposes of trip purposes, so if you went:

| FROM | ТО | 1995 TRIP PURPOSE |
|----------------|--------------------------|----------------------|
| home | drop off child at school | Drop off |
| child's school | work | Work |
| work | lunch | Eat out |
| lunch | work | Return to work |
| work | grocery store | Shopping |
| grocery store | home | Return home |

Notice that the 1995 trip purpose is descriptive of why you made the one-way trip. The reasons for this coding scheme are primarily:

- to obtain better data on trip chaining, i.e., stopping someplace on the way to or from your primary destination,

like stopping to drop off a child at school or stopping at the store on the way home from work

- to have a coding scheme that was more direct than the purpose coding used in the earlier NPTSs
- to have a coding scheme that did NOT require the interviewer to memorize and apply a page full of rules for when to code a trip to what category.

To get a better idea of the differences between the 1995 NPTS and the 1990 (and earlier) NPTSs, the table above is repeated, showing how these trips would have been coded in 1990.

| FROM | ТО | 1995 PURPOSE | 1990 PURPOSE |
|-------------------|--------------------------|-----------------|--------------------|
| home | drop off child at school | Dropoff | Other fam and pers |
| child's school | work | Work | Work |
| work | lunch | Out to eat | Other fam and pers |
| lunch | work | Return to work | Other fam and pers |
| work | grocery store | Shopping | Shopping |
| grocery store | home | Return home | Work |

In looking at this table there are four items of note:

- the 1995 trip purposes are more direct
- the purpose "other family and personal business" has been split into:
 - -other family and personal business,
 - take someone somewhere, and
 - -pickup someone.
- "eating out" has been made a separate own purpose. (In 1990 it was included in "other family and personal business" if you went out to eat from work or school. All

other trips to eat out were coded as "other social and recreational").

- the 1990 trip purpose coding used a round-trip scheme, so that the trip to work and from work were both coded as "work". This was mainly done to assign both parts of the trip to the reason the travel was made, thus avoiding the use of "return home"or "return to work". If the return trips are still problematic for the user, the 1995 datafile contains several variable that allow a recode of the return trips.

COMPARISON 1995-1990

The following comparison shows each of the trip purposes collected in 1995 and the corresponding purpose, if applicable, in 1990:

1995 1990

Work Work

Shopping School

Work-related Work-related Return to work * used reason for

outgoing trip Shopping School/church School/church

Religious activity

Medical/dental

Other family & personal

School/church

Medical/dental

Other family & personal

Take someone somewhere Other family & personal Other family & personal Other family & personal

Vacation Vacation

Visit friends or relatives Visit friends or relatives

Went out to eat * if from work,

Other family & personal

* not from work.

Other social/rec

Other social/rec
Change means
Other, specify
Return home
Other, specify
* used reason for outgoing trip

Note that Pleasure Driving was a trip purpose in 1990, but in 1995

trips for this reason are simply included in Other social and recreational.

NEW PURPOSES

The new purposes added in 1995 are:

Return to work
Take someone somewhere
Pick up someone
Went out to eat
Return home.

RECODING PROCESS

The process of showing the 1990 trip purpose on the file, in addition to the 1995 purpose, required a considerable number of intermediate steps.

In the 1990 trip purpose scheme, if there was more than one trip before the return home trip, the main reason for the travel was the reason used for the return trip. Thus, one of the steps in the recoding process was to determine the main reason by creating trip chains and measuring the time spent at each destination. The chains were defined by travel ending at home, at work, or someplace else. The following variables on the NPTS Travel Day file were developed for this process:

CHAIN - trip chain number for this person - See Appendix J - Notes on Specific Variables for a more complete description of the chaining process.

NOTE THAT THE TRIP CHAINS ON THE 1995 NPTS FILE WERE CREATED FOR THE PURPOSE OF RECODING 1995 TRIP PURPOSES TO 1990 PURPOSES. GIVEN THIS, THERE ARE CHAINING CONVENTIONS THAT MAY NOT BE USED IN A TYPICAL TRIP CHAINING ANALYSIS.

CHAINTRP - sequential number of the trip within the chain

DWELTIME- time spent at the destination of the previous trip

FROM_A and TO_B - the origin or destination of the chain, in terms of home, work or someplace else

STRTTIME - starting time of the trip, which was used to put the trips in order before creating the chains

TRPNUM_A and TRPNUM_B - these are the trip numbers of the first and last trips in each chain

The data user should note that these trip chains were created to recode the 1995 trip purpose to the 1990 purpose scheme, and they include "chains" that would be excluded from most trip chaining analyses. There are an abundance of variables on the 1995 NPTS Travel Day file that can be applied to a user-defined trip chaining scheme.

APPENDIX N GEOGRAPHIC CODES

NOTE on Geographic Codes - If the respondent's household is located in a state that is not specifically identified on the data files, then the frequency for that state in the Codebook will show as zero. NPTS interviews were conducted in all 50 states, but if the state is not being identified, the number in that state will not be disclosed.

CONSOLIDATED STATISTICAL METROPOLITAN AREA CODES

CMSA The codes for the variable HHCMSA are as follows:

- 1602 Chicago-Gary-Kenosha, IL-IN-WI CMSA
- 1642 Cincinnati-Hamilton, OH-KY-IN CMSA
- 1692 Cleveland-Akron, OH CMSA
- 1922 Dallas-Fort Worth, TX CMSA
- 2082 Denver-Boulder-Greeley, CO CMSA
- 2162 Detroit-Ann Arbor-Flint, MI CMSA
- 3362 Houston-Galveston-Brazoria, TX CMSA
- 4472 Los Angeles-Riverside-Orange County, CA CMSA
- 4992 Miami-Fort Lauderdale, FL CMSA
- 5082 Milwaukee-Racine, WI CMSA
- 5602 New York-No. New Jersey-Long Island, NY-NJ-CT-PA CMSA
- 6162 Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA
- 6442 Portland-Salem, OR-WA CMSA
- 6922 Sacramento-Yolo, CA CMSA
- 7362 San Francisco-Oakland-San Jose, CA CMSA
- 7602 Seattle-Tacoma-Bremerton, WA CMSA
- 8872 Washington-Baltimore, DC-MD-VA-WV CMSA

MSA's with 1 Million or more Population Alphabetic Order

| Code | MSA Name | 7/95 pop |
|--------|--|-----------|
| 520 | Atlanta, GA MSA | 3,431,983 |
| 720 | Baltimore, MD PMSA | 2,469,985 |
| 875 | Bergen-Passaic, NJ PMSA | 1,308,655 |
| 1123 | Boston-Worcester-Lawrence-Lowell-Brockton, MA-NH NECMA | 5,768,968 |
| | Buffalo-Niagara Falls, NY MSA | 1,184,052 |
| 1520 | Charlotte-Gastonia-Rock Hill, NC-SC MSA | 1,289,177 |
| | Chicago, IL PMSA | 7,724,770 |
| | Cincinnati, OH-KY-IN PMSA | 1,591,837 |
| 1680 | Cleveland-Lorain-Elyria, OH PMSA | 2,224,974 |
| | Columbus, OH MSA | 1,437,512 |
| 1920 | Dallas, TX PMSA | 2,957,910 |
| 2080 | Denver, CO PMSA | 1,831,308 |
| 2160 | Detroit, MI PMSA | 4,320,203 |
| | Fort Lauderdale, FL PMSA | 1,412,165 |
| 2800 | Fort Worth-Arlington, TX PMSA | 1,491,965 |
| 3120 | GreensboroWinston-SalemHigh Point, NC MSA | 1,123,840 |
| | Hartford, CT NECMA | 1,115,223 |
| | Houston, TX PMSA | 3,710,844 |
| 3480 | Indianapolis, IN MSA | 1,476,865 |
| | Kansas City, MO-KS MSA | 1,663,453 |
| | Las Vegas, NV-AZ MSA | 1,138,758 |
| | Los Angeles-Long Beach, CA PMSA | 9,138,789 |
| | Memphis, TN-AR-MS MSA | 1,068,891 |
| 5000 | Miami, FL PMSA | 2,031,336 |
| 5015 | Middlesex-Somerset-Hunterdon, NJ PMSA | 1,080,450 |
| 5080 | Milwaukee-Waukesha, WI PMSA | 1,457,939 |
| | Minneapolis-St. Paul, MN-WI MSA | 2,723,137 |
| 5190 | Monmouth-Ocean, NJ PMSA | 1,050,052 |
| 5360 | Nashville, TN MSA | 1,093,836 |
| 5380 | Nassau-Suffolk, NY PMSA | 2,659,476 |
| 5483 | New Haven-Bridgeport-Stamford-Waterbury-Danbury,CT | 1 605 512 |
| FF C O | NECMA | 1,625,513 |
| | New Orleans, LA MSA | 1,315,294 |
| | New York, NY PMSA | 8,570,212 |
| | Newark, NJ PMSA | 1,936,096 |
| | Norfolk-Virginia Beach-Newport News, VA-NC MSA | 1,540,446 |
| | Oakland, CA PMSA | 2,195,411 |
| | Oklahoma City, OK MSA | 1,015,174 |
| | Orange County, CA PMSA | 2,563,971 |
| | Orlando, FL MSA | 1,390,574 |
| | Philadelphia, PA-NJ PMSA | 4,950,866 |
| | Phoenix-Mesa, AZ MSA | 2,563,582 |
| | Pittsburgh, PA MSA | 2,394,702 |
| | Portland-Vancouver, OR-WA PMSA | 1,710,260 |
| | Riverside-San Bernardino, CA PMSA | 2,949,387 |
| | Rochester, NY MSA | 1,088,516 |
| | Sacramento, CA PMSA | 1,456,955 |
| | St. Louis, MO-IL MSA | 2,547,686 |
| / 160 | Salt Lake City-Ogden, UT MSA | 1,199,323 |

| 7240 San Antonio, TX MSA | 1,460,809 |
|--|-----------|
| 7320 San Diego, CA MSA | 2,644,132 |
| 7360 San Francisco, CA PMSA | 1,645,815 |
| 7400 San Jose, CA PMSA | 1,565,253 |
| 7600 Seattle-Bellevue-Everett, WA PMSA | 2,197,451 |
| 8280 Tampa-St. Petersburg-Clearwater, FL MSA | 2,180,484 |
| 8840 Washington, DC-MD-VA-WV PMSA | 4,509,932 |

MSA's with 1 Million or more Population Population Order- Ascending

| Code MSA Name | 7/95 pop |
|--|------------------------|
| 5880 Oklahoma City, OK MSA | 1,015,174 |
| 5190 Monmouth-Ocean, NJ PMSA | 1,050,052 |
| 4920 Memphis, TN-AR-MS MSA | 1,068,891 |
| 5015 Middlesex-Somerset-Hunterdon, NJ PMSA | 1,080,450 |
| 6840 Rochester, NY MSA | 1,088,516 |
| 5360 Nashville, TN MSA | 1,093,836 |
| 3283 Hartford, CT NECMA | 1,115,223 |
| 3120 GreensboroWinston-SalemHigh Point, NC MSA | 1,123,840 |
| 4120 Las Vegas, NV-AZ MSA | 1,138,758 |
| 1280 Buffalo-Niagara Falls, NY MSA | 1,184,052 |
| 7160 Salt Lake City-Ogden, UT MSA | 1,199,323 |
| 1520 Charlotte-Gastonia-Rock Hill, NC-SC MSA | 1,289,177 |
| 875 Bergen-Passaic, NJ PMSA | 1,308,655 |
| 5560 New Orleans, LA MSA | 1,315,294 |
| 5960 Orlando, FL MSA | 1,390,574 |
| 2680 Fort Lauderdale, FL PMSA | 1,412,165 |
| 1840 Columbus, OH MSA | 1,437,512 |
| 6920 Sacramento, CA PMSA | 1,456,955 |
| 5080 Milwaukee-Waukesha, WI PMSA | 1,457,939 |
| 7240 San Antonio, TX MSA | 1,460,809 |
| 3480 Indianapolis, IN MSA | 1,476,865 |
| 2800 Fort Worth-Arlington, TX PMSA | 1,491,965 |
| 5720 Norfolk-Virginia Beach-Newport News, VA-NC MSA | 1,540,446 |
| 7400 San Jose, CA PMSA | 1,565,253 |
| 1640 Cincinnati, OH-KY-IN PMSA | 1,591,837 |
| 5483 New Haven-Bridgeport-Stamford-Waterbury-Danbury, CT | 1 605 510 |
| NECMA 7360 San Francisco, CA PMSA | 1,625,513 |
| 3760 Kansas City, MO-KS MSA | 1,645,815 1,663,453 |
| 6440 Portland-Vancouver, OR-WA PMSA | 1,710,260 |
| 2080 Denver, CO PMSA | 1,831,308 |
| 5640 Newark, NJ PMSA | 1,936,096 |
| 5000 Miami, FL PMSA | 2,031,336 |
| 8280 Tampa-St. Petersburg-Clearwater, FL MSA | 2,180,484 |
| 5775 Oakland, CA PMSA | 2,195,411 |
| 7600 Seattle-Bellevue-Everett, WA PMSA | 2,197,451 |
| 1680 Cleveland-Lorain-Elyria, OH PMSA | 2,224,974 |
| 6280 Pittsburgh, PA MSA | 2,394,702 |
| 720 Baltimore, MD PMSA | 2,469,985 |
| 7040 St. Louis, MO-IL MSA | 2,547,686 |
| 6200 Phoenix-Mesa, AZ MSA | 2,563,582 |
| 5945 Orange County, CA PMSA | 2,563,971 |
| 7320 San Diego, CA MSA | 2,644,132 |
| 5380 Nassau-Suffolk, NY PMSA | 2,659,476 |
| 5120 Minneapolis-St. Paul, MN-WI MSA | 2,723,137 |
| 6780 Riverside-San Bernardino, CA PMSA | 2,949,387 |
| 1920 Dallas, TX PMSA | 2,957,910 |
| 520 Atlanta, GA MSA | 3,431,983 |
| 3360 Houston, TX PMSA | 3,710,844 |

| 2160 Detroit, MI PMSA | 4,320,203 |
|---|-----------|
| 8840 Washington, DC-MD-VA-WV PMSA | 4,509,932 |
| 6160 Philadelphia, PA-NJ PMSA | 4,950,866 |
| 1123 Boston-Worcester-Lawrence-Lowell-Brockton, MA-NH | |
| NECMA | 5,768,968 |
| 1600 Chicago, IL PMSA | 7,724,770 |
| 5600 New York, NY PMSA | 8,570,212 |
| 4480 Los Angeles-Long Beach, CA PMSA | 9,138,789 |

State Postal Code (For referencing HHSTATE)

| State Postal Code | State |
|-------------------|---------------------------|
| AL | Alabama |
| AK | Alaska |
| AZ | Arizona |
| AR | Arkansas |
| CA | California |
| CO | Colorado |
| CT | Connecticut |
| DE | Delaware |
| DC | District of Columbia |
| FL | Florida |
| GA | Georgia |
| HI | Hawaii |
| ID | Idaho |
| IL | Illinois |
| IN | Indiana - |
| IA | Iowa |
| KS | Kansas |
| KY | Kentucky |
| LA | Louisiana |
| ME | Maine |
| MD MA | Maryland Massachusetts |
| MI | Michigan |
| MN | Minnesota |
| MS | Mississippi |
| MO | Missouri |
| MT | Montana |
| NE | Nebraska |
| NV | Nevada |
| NH | New Hampshire |
| NJ | New Jersey |
| NM | New Mexico |
| NY | New York |
| NC | North Carolina |
| ND | North Dakota |
| OH | Ohio |

State Postal Code (For referencing HHSTATE)

| State Postal Code | State |
|-------------------|----------------|
| OK | Oklahoma |
| OR | Oregon |
| PA | Pennsylvania |
| PR | Puerto Rico |
| RI | Rhode Island |
| SC | South Carolina |
| SD | South Dakota |
| TN | Tennessee |
| TX | Texas |
| UT | Utah |
| VT | Vermont |
| VA | Virginia |
| AW | Washington |
| WV | West Virginia |
| WI | Wisconsin |
| WY | Wyoming |

APPENDIX O - MAKE AND MODEL CODES FOR NPTS VEHICLE FILE

The codes used for vehicle make and model are from the National Accident Sampling Sytem (NASS), a major database of the National Highway Traffic Safety Administration (NHTSA).

This Appendix contains the portion of the NASS documentation identifying the codes. Within the Appendix, the codes in are in numerical order by vehicle make. A listing in alphabetic order is provided below.

| | Page No. | Make | Lancia | O-44 | 40 |
|-----------------|----------|------|----------------|------|----|
| Acura | O-60 | 54 | Land Rover | O-68 | 62 |
| Alfa Romeo | O-33 | 31 | Lexus | O-65 | 59 |
| American Motors | O-4 | 01 | Lincoln | O-17 | 13 |
| AM General | O-6 | 03 | Mazda | O-45 | 41 |
| Audi | O-34 | 32 | Mercedes Benz | O-46 | 42 |
| Austin/ | | | Mercury | O-18 | 14 |
| Austin Healy | O-35 | 33 | Merkur | O-62 | 56 |
| Avanti | O-31 | 29 | MG | O-48 | 43 |
| BMW | O-36 | 34 | Mitsubishi | O-58 | 52 |
| Buick | O-20 | 18 | Nissan | O-38 | 35 |
| Cadillac | O-21 | 19 | Oldsmobile | O-26 | 21 |
| Checker | O-31 | 29 | Other domestic | O-31 | 29 |
| Chevrolet | O-22 | 20 | Other foreign | O-70 | 69 |
| Chrysler | O-7 | 06 | Peugeot | O-49 | 44 |
| Daihatsu | O-66 | 60 | Plymouth | O-12 | 09 |
| Datsun | O-38 | 35 | Pontiac | O-27 | 22 |
| Dodge | O-8 | 07 | Porsche | O-50 | 45 |
| Eagle | O-14 | 10 | Renault | O-51 | 46 |
| Fiat | O-40 | 36 | Saab | O-53 | 47 |
| Ford | O-15 | 12 | Saturn | O-29 | 24 |
| GMC | O-28 | 23 | Sterling | O-67 | 61 |
| Grumman | O-30 | 25 | Studebaker | O-31 | 29 |
| Honda | O-41 | 37 | Subaru | O-54 | 48 |
| Hyundai | O-61 | 61 | Suzuki | O-59 | 53 |
| Imperial | O-11 | 08 | Toyota | O-55 | 49 |
| Infiniti | O-64 | 58 | Triumph | O-56 | 50 |
| Isuzu | O-42 | 38 | Volkswagen | O-32 | 30 |
| Jaguar | O-43 | 39 | Volvo | O-57 | 51 |
| Jeep | O-5 | 02 | Yugo | O-63 | 57 |
| Kaiser Jeep | O-5 | 02 | | | |
| KIA | O-69 | 63 | | | |
| | | | | | |

GV05

Variable Name: Vehicle Make (specify):

Element Values:

Passenger Vehicles/Light Trucks (01-69)

| Description | | | Page |
|--|--------|------|----------------------|
| 01 American Motor | S. | | O-4 |
| 02 Jeep (includes | | | O-5 |
| Kaiser-Jeep) | | | |
| 03 AM General | | | O-6 |
| 06 Chrysler . | | | O-7 |
| 07 Dodge . | | | O-8 |
| 08 Imperial . | | | O-11 |
| 09 Plymouth | | | O-12 |
| 10 Eagle . | | | O-14 |
| 12 Ford . | | | O-15 |
| 13 Lincoln . | | | O-17 |
| 14 Mercury . | | | O-18 |
| 18 Buick . | | | O-20 |
| 19 Cadillac . | | | O-21 |
| 20 Chevrolet | | | O-22 |
| 21 Oldsmobile | | | 0-26 |
| 22 Pontiac . | | | O-27 |
| 23 GMC . | | | O-28 |
| 24 Saturn . | | | O-29 |
| 25 Grumman | | | O-30 |
| 29 Other domestic: | GV06 | = | O-31 |
| 001 - Studeb | | | |
| 002 - Checke | | | |
| 398 - Other a | automo | bile | |
| (i.e., DeSoto | | | |
| Hudson, Pac | kard) | | |
| 30 Volkswagen | | | O-32 |
| 31 Alfa Romeo | | | O-33 |
| 32 Audi . | | | O-34 |
| 33 Austin/Austin He | ealev | | O-35 |
| 34 BMW | , | | O-36 |
| 35 Nissan/Datsun | | | O-38 |
| 36 Fiat | | | O-40 |
| 37 Honda | | | O-41 |
| 38 Isuzu | | | O-42 |
| 39 Jaguar | | | O-43 |
| 40 Lancia | | | O-44 |
| 41 Mazda | | | O-45 |
| 42 Mercedes Benz | | | O-46 |
| | | | O-48 |
| 43 MG | | | |
| | | | O-49 |
| 43 MG 44 Peugeot 45 Porsche | | | |
| 44 Peugeot | | | O-49 |
| 44 Peugeot45 Porsche | | | O-49 O-50 |
| 44 Peugeot45 Porsche46 Renault | | | O-49 O-50 O-51 |

| 49 Toyota | O-55 |
|------------------|------|
| 50 Triumph | O-56 |
| 51 Volvo | O-57 |
| 52 Mitsubishi | O-58 |
| 53 Suzuki | O-59 |
| 54 Acura | O-60 |
| 55 Hyundai | O-61 |
| 56 Merkur | 0-62 |
| 57 Yugo | O-63 |
| 58 Infiniti | O-64 |
| 59 Lexus | O-65 |
| 60 Daihatsu | O-66 |
| 61 Sterling | O-67 |
| 62 Land Rover | O-68 |
| 63 KIA | O-69 |
| 69 Other foreign | O-70 |

GV06

Variable Name: Vehicle Model (specify):

Element Values:

MAKE "01" AMERICAN MOTORS*

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|--------------------|--|-------|---------|-------------|
| 001 | Rambler/American | Rogue, Scrambler, 220, 440 | all | 3 | 3 |
| 002 | Rebel/Matador | Barcelona, Classic | all | 114" WB | |
| | 5 | Brougham, 550, 660, 770Matador (-78), Mar | 1111 | | 118" WB = 5 |
| 003 | Ambassador | Brougham, DPL, SST, DL, Limited, 880, 990 | all | 5 | 5 |
| 004 | Pacer | Limited, DL | 75-80 | 2 | 2 |
| 005 | AMX | (2 seater only) | 68-70 | 2 | 2 |
| 006 | Javelin | SST, AMX (71-74) | all | 2 | 2 |
| 007 | Hornet/Concord | Sportabout, Limited, DL, SC-360, SST, AMX (75-78) | all | 2 | 2 |
| 800 | Spirit/Gremlin | Limited, DL, Custom, X, GT (83-on) AMX (79-on) | all | 2 | 2 |
| 009 | Eagle | Concord based | 80-87 | 3 | 3 |
| 010 | Eagle SX-4 | Spirit/Gremlin based | 81-84 | 2 | 2 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | e | | | |
| 999 | Unknown vehicle | | - | - | - |

^{*} Alliance, Encore, Premier--See Renault - Make "46"

GV06 (2)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "02" JEEP (Includes KAISER-JEEP)

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|---------------------|--|----------------|----------------------------|------------|
| 401 | CJ-2/CJ-3/CJ-4 | Military | -66 | 81" WB = 1 101" WB = 2 | 7** 7** |
| 402 | CJ-5/CJ-6/CJ-7/CJ8 | Scrambler, Golden Eagle, Renegade, Laredo, Wrangler | 67-on | 84" WB = 1 104" WB = 3 | 7** |
| 403 | YJ-series | Wrangler | 86-on | 1 | 7** |
| 404 | Cherokee | Limited, Loredo, Pioneer, Briarwood Grand | 84-on 92-on | 2 2 | 7** 7** |
| 421 | Cherokee | Wide Track, Chief, Commando, Jeepster | -83 | 2 | 7** |
| 431 | Grand Wagoneer | Custom, Brougham Limited, Wagoneer | 71-91 | 2 3 | 7** 7** |
| 481 | Pickup | J-10, J-20, Honcho | all | per WB | 7** |
| 482 | Comanche | Chief | 86-92 | 111" WB = 3 119" WB = 4 | 7** 7** |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | - | - | - |
| 999 | Unknown vehicle | | - | - | - |

^{**} Applies to front and rear impacts. Use size value for side impacts.

MAKE "03" AM GENERAL

| CC | DDE MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|-----------------------------|---------------------------|-------|------|-----------|
| 401 | Dispatcher | Post Office (Jeep) | all | 1 | 1 |
| 421 | Hummer | | 93-on | N/A | N/A |
| 466 | Dispatcher | DJ-series-Post Office Van | all | N/A | N/A |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | - | - | - |
| 884 | Medium/heavy truck | Military off-road | - | - | - |
| 898 | Other medium/heavy truck | | - | - | - |
| 899 | Unknown medium/heavy truck | | - | - | - |
| 983 | Bus-flat front, rear engine | Transit | all | N/A | N/A |
| 988 | Other bus | | all | N/A | N/A |
| 989 | Unknown bus type | | - | - | - |
| 999 | Unknown vehicle | | - | - | - |

GV06 (3)

Vehicle Model (specify): [cont'd.] Variable Name:

MAKE "06" CHRYSLER

| COE | DE MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|--|--|-----------------------|-------------|--------------|
| 009 | Cordoba | Crown, 300, LS | 75-83 | 4 | 4 |
| 010 | New Yorker/Newport/ 5th Avenue/Imperial (excludes all FWD) | Custom, Royal, Brougham, Town and Country, 300 (-71) | -78 79-81 82-89 | 6 5 4 | 6 5 4 |
| 014 | New Yorker/E Class/ Imperial (90-93)/5th Aver | FWD vehicles, Turbo nue | 83-93 | 3 | 9*** |
| 015 | Laser | Turbo, XE, XT | 84-86 | 2 | 9*** |
| 016 | LeBaron | Medallion, Salon (RWD), Landau, LX FWD except GTS or GTC Sport Coupe | 77-81 82-on | 4 2 | 4 9*** |
| 017 | LeBaron GTS/GTC | GTS-Turbo GTC-Sport Coupe | 85-on 87-on | 3 2 | 9*** 9*** |
| 031 | TC (Maserati Sport) | Turbo Convertible | 88-91 | 1 | 1 |
| 035 | Conquest | TSI, Turbo | 87-89 | 2 | 2 |
| 041 | Concorde | | 93-on | 4 | 4 |
| 042 | LHS | New Yorker (94-on) | 94-on | 4 | 9*** |
| 043 | Sebring | | 95-on | 3 | 3 |
| 044 | Cirrus | | 95-on | 3 | 9*** |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 441 | Town and Country | Minivan | 90-on | 5 | 7** |
| 498 | Other light truck | | | | |
| 499 | Unknown light truck | | | | |
| 999 | Unknown vehicle | | - | - | - |

Code 7 applies to front and rear impacts. Use size code for stiffness for side impacts. Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

GV06 (4)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "07" DODGE

| COE | E MODEL | | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|---------------------------------|-----------|--|----------------|----------------------------|-----------|
| 001 | Dart | | Custom, Swinger, Sport, GT, | 62-70 | 111" WB = 4 | 4 |
| | | | Demon, Special, Special Edition, 170, 270, 340, 360 | 71-76 | 108" WB = 3 | 3 |
| 002 | Coronet/Charger (-78) Magnum |)/ | Brougham, Custom, Sup Crestwood, Deluxe, XE, R/T, SE, 440, 500, Police | oerbee, | -79 4 | 4 |
| 003 | Polara/Monaco Royal Monaco | | Custom, Special, Crestwood, Brougham, Police, Taxi | -76 77-78 | 5 4 | 5 4 |
| 004 | Viper | | RT/10, GTS | 92-on | 2 | 2 |
| 005 | Challenger | | R/T, T/A, Rallye | 70-74 | 3 | 3 |
| 006 | Aspen | | Custom, Special Edition, Police, R/T, Sport | 76-80 | 113" WB = 4 109" WB = 3 | 3 3 |
| 007 | Diplomat | | Medallion, Salon, S | 77-89 | 4 | 4 |
| 800 | Omni/Charger (83 on) |) | 024, DeTomaso, Miser, GLH, GLHS, Shelby, Charger 2.2, America, Expo | 78-90 | 2 | 2 |
| 009 | Mirada | | | 80-83 | 4 | 4 |
| 010 | St. Regis | Police, T | -axi | 79-81 | 5 | 5 |
| 011 | Aries (K) | Custom, | SE, LE | 81-89 | 2 | 9*** |
| 012 | 400 | LS | | 82-83 | 2 | 9*** |
| 013 | Rampage (car based pickup) | 2.2, GT, | Sport | 82-84 | 2 | 2 |
| 014 | 600 | ES, Turb | 00 | 83-88 | 2 | 9*** |
| 015 | Daytona | Turbo Z, | Shelby Z, Pacifica, C/S Competition, IROC R/T | 84-94 | 2 | 9*** |
| 016 | Lancer | Pacifica, | Turbo, ES, Shelby | 85-89 | 3 | 9*** |
| 017 | Shadow | ES, Turb | 00 | 87-on | 2 | 9*** |
| 018 | Dynasty | | | 88-on | 3 | 9*** |
| 019 | Spirit | ES, She | lby, R/T | 89-94 | 3 | 9*** |
| 020 | Neon | Expresso | 0 | 94-on | 3 | 9*** |
| 033 | Challenger all impor | rted | | 78-83 | 2 | 2 |
| 034 | Colt (excludes Vista) | RS, Turb | oo, Custom, GTS, DL, E, | 74-76 77-80 | 2 <93" WB = 1 | 2 |
| | | | Premier, Deluxe, Carousel, GT | 80-94 | <93 WB = 1 1 | 1 |
| 035 | Conquest | Turbo | | 84-86 | 2 | 2 |

GV06 (5)

Vehicle Model (specify): [cont'd.] Variable Name:

MAKE "07" **DODGE (Continued)**

| CODE | MODEL | INCLUDES | YEAR | SIZE STI | FFNESS |
|------|---------------------------------|--|--------------|----------------------------|------------|
| 039 | Stealth | | 91-on | 2 | 2 |
| 040 | Monaco | | 90-92 | 3 | 3 |
| 041 | Intrepid | | 93-on | 4 | 4 |
| 042 | Avenger | 95-on | 3 | 3 | |
| 043 | Stratus | | 95-on | 3 | 9*** |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 401 | Raider | Sport | 86-on | 1 | 8** |
| 421 | Ramcharger | | all | 3 | 8** |
| 441 | Vista | 4 x 4 | 84-91 | 3 | 7** |
| 442 | Caravan | Mini-Ram, 112 and 119 WB, SE, ES | 84-on | 112" WB = 4 119" WB = 5 | 7** 7** |
| 461 | B-series vans | Sportsman, Royal, Maxiwagon, Ram B150-B350, Tradesman | all | 7 | 7** |
| 470 | Van derivative | Kary Van | all | 7 | 7** |
| 471 | D50, Colt P/U Ram 50/Ram 100 | | -82 83-on | per WB per WB | 8** 8** |
| 472 | Dakota | | 87-on | 112" WB = 3 124" WB = 6 | |
| 481 | D, W-series pickup W100-W350 | Ram, Custom, Royal, Miser, D100-D350, | all | per WB | 8** |
| 482 | Ram | 1500/2500/3500 P/U | 94-on | per WB | 8** |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | | | |

^{**} Applies to front and rear impacts. Use size value for side impacts.

*** Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

GV06 (6)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "07" DODGE (Continued)

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFN | ESS |
|------------|--|----------|------|------|--------|-----|
| 881 | Medium/Heavy: CBE | | all | N/A | | N/A |
| 882 | Medium/Heavy: COE low entry | | all | N/A | | N/A |
| 883 | Medium/Heavy: COE high entry | | all | N/A | | N/A |
| 884 | Medium/Heavy: Unknown engine location | | all | N/A | | N/A |
| 890 | Medium/Heavy: COE entry position unknown | | all | N/A | | N/A |
| 898 N/A | Other medium/heavy truck | | | all | N/A | |
| 899 | Unknown medium/heavy truck | | all | N/A | | N/A |
| 981 | Medium bus (not van based) | | all | N/A | | N/A |
| 988 | Other bus | | all | N/A | | N/A |
| 989 | Uknown bus type | | | | | |
| 998 | Other vehicle | | | | | |
| 999 | Unknown vehicle | | - | - | | - |

| MAKE "08" | IMPERIAL | | | | | |
|----------------------|----------|--|--------------|--------|-----------|--|
| CODE MODEL | | INCLUDES | YEAR | SIZE | STIFFNESS | |
| 010 Imperial | | Lebaron Mark Cross, Frank Sinatra editions | -76 81-83 | 6 4 | 6 4 | |
| 398 Other automobile | | | - | - | - | |
| 399 Unknown automobi | le | | | | | |
| 999 Unknown vehicle | | | - | - | - | |

GV06 (7)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "09" PLYMOUTH

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFF | NESS |
|------------|--------------------------------|---|----------------|------------------|-------|--------|
| 001 | Valiant/Duster (-76)/ Scamp | 100, 200, Brougham, Signet Custom, Special 340/360, 340, 360, Twister | -76 | 108" W 111" W | | 3 4 |
| 002 | Satellite/Belvedere | Belvedere I/II, GTX, Roadrunner (-74), Sebring, Sebring Plus, Superbird, Brougham | -74 | 4 | | 4 |
| 003 5 | Fury | I, II, III, Roadrunner (75), | | -74 | 5 | |
| 3 | | Salon, VIP, Sport, Suburban | 75-78 | 4 | | 4 |
| 04 4 | Gran Fury | Sedan, Brougham, Custom Sport, Suburban | 75-81 | 5 82-89 | 4 | 5 |
| 05 | Barracuda | Formula, S, 340, AAR, 'Cuda Gran Coupe | 65-73 | 3 | | 3 |
| 06 | Volare | Custom, Premier, Roadrunner (76-on), Police | 76-80 | 109" W 113" W | | 3 4 |
| 07 | Caravelle | Turbo, SE | 85-89 | 3 | | 9*** |
| 008 2 | Horizon | TC-3, Miser, Turismo 2.2, | | 78-90 | 2 | |
| 2 | | Custom, SE, Duster (85-on) America, Expo | | | | |
| 11 | Reliant (K) | SE, LE | 81-89 | 2 | | 9*** |
| 13 | Scamp (car based pickup) | GT, 2.2 | 82-84 | 2 | | 2 |
| 17 | Sundance | Turbo | 87-on | 2 | | 9*** |
| 19 | Acclaim | LX, LE | 89-on | 3 | | 9*** |
| 20 | Neon | Expresso | 94-on | 3 | | 9*** |
| 31 | Cricket | | 71-72 | 2 | | 2 |
| 32 1 | Arrow | Fire Arrow, GS, GT | | 76-80 | 1 | |
| 33 2 | Sapparo | all imported | | 78-83 | 2 | |
| 34 | Champ/Colt (excludes Vista) | Turbo, Custom - Station Wagon (84-on) | 79-94 84-94 | 1 103" W | B = 3 | 1 2 |
| 35 | Conquest | TSI | 84-89 | 2 | | 2 |
| 36 | CHANGED TO CODE 03 | 37 IN 1990 | | | | |
| 37 2 | Laser | RS, Turbo | | 89-on | 2 | |
| 38 9*** | Breeze | | | 96-on | 3 | |
| 39 | Prowler | | 96-on | TBD | | TBD |
| 98 | Other automobile | | - | - | | - |
| 99 | Unknown automobile | | | | | |

*** Code 9 applies only to frontal impacts. Use size code for stiffness for side or impacts.

GV06 (8)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "09" PLYMOUTH (Continued)

| CODE | MODEL | INCLUDES | YEAR | SIZE STIFF | NESS |
|------|-------------------------|-------------------------|-------|----------------------------|------------|
| 421 | Trailduster | | all | 3 | 8** |
| 441 | Vista | 4 x 4 | 87-on | 3 | 7** |
| 442 | Voyager (minivan) | SE, LX | 84-on | 112" WB = 4 119" WB = 5 | 7** 7** |
| 461 | Van-fullsize (B-series) | Voyager, Sport, Premier | all | 7 | 7** |
| 471 | Arrow pickup (foreign) | | all | per WB | 8** |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | - | - | - |
| 999 | Unknown vehicle | | - | - | - |

| MAKE "10" | | EAGLE | | | |
|-----------|---------------------|------------|-------|-------|--------------|
| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 034 | Summit | DL, LX, ES | 89-on | 3 | 3 |
| 037 | Talon | TSI | 90-on | 2 | 2 |
| 040 | Premier | LX, ES | 88-92 | 3 | 3 |
| 041 | Vision | | 93-on | 4 | 4 |
| 044 | Medallion | DL, LX | 88-90 | 3 | 3 |
| 398 | Other automobile | | 88-on | - | - |
| 399 | Unknown automobi | le | | | |
| 441 7* | | | | 92-on | 99.2" WB = 2 |
| 498 | Other light truck | | | | |
| 499 | Unknown light truck | ζ. | | | |
| 999 | Unknown vehicle | | - | - | - |

^{**} Applies to front and rear impacts. Use size for side impacts.

GV06

(9) Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "12" FORD

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|-----------------------------------|---|---|-----------------------|----------------------------|
| 001 | Falcon | Sprint, GT, Futura | thru-70 | 4 | 3 |
| 002 | Fairlane | Torino | thru 19 thru-70 | | 4 |
| 003 | Mustang/Mustang II | Mach, Boss, Grande, Cobra Ghia, SVO, GT, LX, Shelby | 65-73 74-on | 3 2 | 3 2 |
| 004 | Thunderbird (all sizes) | Landau, Heritage, Turbo coupe, Elan, Fila | 72-76 58-71 77-79 55-57 80-88 | 5 4 4 3 3 | 6 4 4 3 3 4 |
| | | SC, Sport, LX | 89-on | 4 | 4 |
| 005 | LTD II | S, Squire, Brougham | 77-79 | 4 | 4 |
| 006 | LTD/Custom/Galaxie (all sizes) | XL, Landau, Ranch Wagon, Country Squire, S, 500, Brougham, XL, GT | thru-77 78-82 83-86 | 5 4 3 | 5 4 3 |
| 007 | Ranchero | Falcon/Fairlane based Torino/LTD II based | thru-71 72-79 | 3 4 | 3 4 |
| 800 | Maverick Grabbe | er | 70-77 | 3 | 3 |
| 009 | Pinto | Pony, MPG, ESS | 71-80 | 1 | 1-Front |
| 010 | Torino/Gran Torino/Elite | GT, Cobra, Sport, Squire, Brougham | 71-76 | 4 | 2-Rear 4 |
| 011 | Granada | ESS, Ghia | 75-82 | 3 | 3 |
| 012 | Fairmont | Futura, Sport Coupe | 78-83 | 3 | 3 |
| 013 | Escort/EXP | L, GL, GLX, SS, GT, LX | 81-on | 1 | 9*** |
| 015 | Tempo | L, GL, GLX, Sport, 4 x 4 | 84-94 | 2 | 9*** |
| 016 | Crown Victoria | | 81-on | 4 | 4 |
| 017 | Taurus | MT-5, L, GL, LX, SHO | 86-on | 3 | 3 |
| 018 | Probe GL, LX | , GT | 88-on | 2 | 2 |
| 031 | English Ford | Cortina | | per WB | per WB |
| 032 | Fiesta | Sport, Ghia | 78-80 | 1 | 1 |
| 033 | Festiva | | 88-93 | 1 | 1 |
| 034 | Laser | | all | per WB | per WB |
| 035 | Contour | | 94-on | 3 | 9*** |
| 036 | Aspire | | 94-on | 1 | 1 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | - | - | - |

^{***} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

GV06 (10)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "12" FORD (Continued)

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFN | NESS |
|------------|---|--|-------|--------|--------|--------|
| 401 | Bronco II/Bronco (-77)/ | Eddie Bauer, XL, XLT, Limited, Eddie Bauer | er | 83-89 | 1 | |
| 7** | Explorer | | 90-on | | | |
| 421 | Bronco-fullsize | Eddie Bauer, Custom, XL, XLT | 78-on | 3 | | 8** |
| 422 | Expedition | | 97-on | TBD | | TBD |
| 441 | Aerostar | XLT, Cargo Van | 85-on | 7 | | 7** |
| 442 7** | Windstar | | | 94-on | 5 | |
| 461 | E-series vans | Econoline, Clubwagon, Chateau, E150-E350 | all | 7 | | 7** |
| 470 | Van derivative | Parcel van | all | 7 | | 7** |
| 471 | Ranger | Supercab, 4 x 4, STX, Splash | | 82-on | 108" W | 'B = 3 |
| 8** | | | | 114" W | B = 4 | 8** |
| 472 | Courier | Imported pickup | all | 7 | | 7** |
| 481 | F-series pickup | F100-F350 | all | per WB | 3 | 8** |
| 498 | Other light truck | | - | - | | - |
| 499 | Unknown light truck | | | | | |
| 881 | Medium/Heavy CBE | F-5 through F-8, L-series, FT-series | all | N/A | | N/A |
| 882 | Medium/Heavy COE low entry | C/CT series | all | N/A | | N/A |
| 883 | Medium/Heavy COE high entry | C/CLT series | all | N/A | | N/A |
| 884 | Medium/Heavy: Unknown engine location | | all | N/A | | N/A |
| 890 | Medium/Heavy: COE entry position unknow | 'n | all | N/A | | N/A |
| 898 | Other medium/heavy truck | (| - | - | | - |
| 899 | Unknown medium/heavy truck | | - | - | | - |
| 981 | Medium bus | B-series (not van based) | all | N/A | | N/A |
| 988 | Other bus | | all | N/A | | N/A |
| 989 | Unknown bus type | | | | | |
| 998 | Other vehicle | | - | - | | - |
| 999 | Unknown vehicle | | - | - | | - |

^{**} Applies to front and rear impacts. Use size value for side impacts.

GV06 (11) Variable Name: Vehicle Model (specify): [cont'd.]

LINCOLN **MAKE** "13"

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|----------|--------------------------|--|---|-----------------------|-----------------------|
| 001 | Continental/Town Car | Continental (-81), Town Car (82-on) | thru-79 80-on | 6 4 | 6 5 |
| 002 | Mark | I, II, III, IV, V LSC, all Signature/Designer Series VI VII VIII | -70 71-80 80-83 84-on 93-on | 4 5 4 3 4 | 4 5 4 3 4 |
| 005 4 | Continental (82-on) 5 | All Signa | gnature/Designer Series 88-on 3 | | 82-87 3 |
| 011 | Versailles | | 77-80 | 3 | 3 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 421 | Navigator | | 97-on | TBD | TBD |
| 498 | Other light truck | | | | |
| 499 | Unknown light truck | | | | |
| 999 | Unknown vehicle | | - | - | - |

GV06 (12)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "14" MERCURY (MERKUR: See "56")

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|---------------------|---|----------------|--|-------------------|
| 002 | Cyclone | GT, CJ, Spoiler | thru-71 | 4 | 4 |
| 003 | Capri-domestic | RS, Turbo, GS, Black Magic | 79-86 | 2 | 2 |
| 004 | Cougar/XR7 | XR-7, RS, LS, GS, Eliminator, Bougham, Villager, (includes all body styles) | 67-76 77-79 | 4 114" WB = 4 | 4 4 |
| | | | 80-88 89-on | 118" WB = 5 3 4 | 5 3 4 |
| 006 | Marquis/Monterey | Marauder, X-100, Parklane, S-55, Custon | n, thru-78 | 121" WB = 5 | 5 |
| | | Brougham, Montclair, Grand Marquis | 79-82 82-on | 124" WB = 6 4 106" WB = 3 114" WB = 4 | 6 4 3 4 |
| 800 | Comet | Caliente, GT, Voyager, 202, Capri (66-67) | 62-67 71-77 | 4 3 | 4 3 |
| 009 | Bobcat | Runabout, Villager | 75-80 | 1 | 1-Front 2-Rear |
| 010 | Montego | Comet (68-70), GT, MX, Villager, Brougham | 68-73 72-76 | 3 114" WB = 3 118" WB = 4 | 3 3 4 |
| 011 | Monarch | Ghia | 75-80 | 3 | 3 |
| 012 | Zephyr | GS, Z-7 | 78-83 | 3 | 3 |
| 013 | Lynx/LN-7 (82-83) | L, LS, GS, RS, XR-3 | 81-87 | 1 | 9*** |
| 015 | Topaz | L, LS, GS, 4 x 4 | 84-on | 2 | 9*** |
| 017 | Sable | LS, GS | 86-on | 3 | 3 |
| 031 | Capri - foreign | Capri II 2 + 2 | 70-77 89-94 | 2 1 | 2 1 |
| 033 | Pantera | deTomaso | 72-74 | 2 | 2 |
| 036 | Tracer | L, GL | 88-on | 1 | 1 |
| 037 | Mystique | | 94-on | 3 | 9*** |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 401 | Mountaineer | | 96-on | 3 | 7** |
| 443 | Villager | LS, GS | 93-on | 4 | 7** |
| 498 | Other light truck | | | | |
| 499 | Unknown light truck | | | | |

GENERAL VEHICLE FORM

GV06 (13)

Variable Name: Vehicle Model (specify): [cont'd.]

MERCURY (MERKUR: See "56") **MAKE "14"**

CODE **INCLUDES** YEAR **MODEL** SIZE **STIFFNESS**

999 Unknown vehicle

Applies to front and rear impacts. Use size value for side impacts.
 Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

GV06 (14)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "18" BUICK

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|--------------|---|--|---|-----------------------|-----------------------------|
| 001 | Special/Skylark | GS, GS-350, GS-400, GS-455, GS California, Sport wagon, Custom | thru 72 | 4 | 4 |
| 002 | LeSabre/Centurion/ Wildcat | Wagon, Luxus, Invicta, Custom, Limited T-Type | -76 77-85 86-on | 6 4 4 | 6 4 9*** |
| 003 | Electra/Electra 225/ Park Avenue (91-on) | Limited, Park Avenue, Ultra | -76 77-84 85-on | 6 5 4 | 6 5 9*** |
| 004 | Roadmaster | Estate Wagon, Limited | 91-96 | 4 | 4 |
| 005 | Riviera | S-Type, T-Type | 63-65 66-76 77-85 86-93 94-on | 4 5 4 3 4 | 4 5 4 9*** 9*** |
| 007 | Century | Luxus, T-Type, FWD (82-on) Custom, Regal (72-77) | thru 77 78-81 82-on | 4 3 3 | 4 3 9*** |
| 800 | Apollo/Skylark* | Skylark (75)*, S/R | 73-76 | 4 | 4 |
| 010 | Regal | Turbo, Luxus, Grand National, GNX, T-Type | 78-88 | 3 | 3 |
| 012 | Skyhawk | S-Type, Roadhawk, T-Type, GT | 75-81 82-on | 2 2 | 2 9*** |
| 015 | Skylark (76-85) | (except 75), S/R, S, Limited, Sport, T-Type | 76-79 80-85 | 4 3 | 4 9*** |
| 018 | Somerset/Skylark** | Skylark (86-on)**, Somerset, GS Regal, Custom, Limited, T-Type | 85-on | 3 | 9*** |
| 020 | Regal (FWD) | Limited | 88-on | 3 | 9*** |
| 021 | Reatta | | 88-91 | 2 | 2 |
| 031 | Opel Kadett | | -75 | 2 | 2 |
| 032 | Opel Manta | 1900, Luxus, Rallye, Sports Coupe | -75 | 2 | 2 |
| 033 | Opel GT | | -75 | 2 | 2 |
| 034 | Opel Isuzu | Deluxe, Sport | 76-79 | 1 | 1 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 999 *** (| Unknown vehicle Code 9 applies only to fro | ontal impacts. Use size code for stiffnes | - s for side or rear i | - mpacts. | - |

GV06 (15)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "19" CADILLAC

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|---|--|---------------------------------|-------------|----------------|
| 003 | Deville/Fleetwood (except Limousine) | Coupe de Ville, Sedan de Ville, Fleetwood Bougham, Fleetwood 60 Special d'Elegance | -76 , RWD 77-96 FWD 85-on | 6 5 4 | 6 5 9*** |
| | Deville | Concourse | 94-on | 4 | 9*** |
| 004 | Limousine | Fleetwood 75, Formal DeVille-based | all | 6 | 6 |
| 005 | Eldorado | Biarritz, El-doro, Touring Coupe | -78 79-85 86-on | 6 4 3 | 6 4 9*** |
| 006 | Commercial Series | Ambulance/Hearse | all | 6 | 6 |
| 009 | Allante' | | 87-on | 2 | 2 |
| 014 | Seville | Elegante STS | 76-85 86-on | 4 3 | 4 9*** |
| 016 | Cimarron | D'oro | 82-88 | 2 | 9*** |
| 017 | Catera | RWD | 97-on | TBD | TBD |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 999 | Unknown vehicle | | - | - | - |

^{***} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

GV06 (16)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "20" CHEVROLET

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|------------------------|---|-------------------------|----------------------|-------------------|
| 001 | Chevelle/Malibu | Classic, Concours, S-3, Laguna, Nomad, 300, Greenbriar, Estate, Deluxe, SS 396/454 | 64-77 78-83 | 4 3 | 4 3 |
| 002 | Impala/Caprice | Biscayne, Belair, Super Sport, Classic, Classic Brougham, Townsman Brookwood, Kingswood | -76 77-on | 5 St. Wgn.=6 4 | 5 6 4 |
| 004 | Corvette | Stingray | 53-62 63-on | 3 2 | 3 2 |
| 006 | Corvair | Monza, Corsa, 500, Yenko | 60-69 | N/A | N/A |
| 007 | El Camino | Royal Knight, SS | 59-60 64-77 78-on | 5 4 3 | 8** 8** 8** |
| 800 | Nova (-79) | Chevy II, LN, LE, Concours SS-350/396, Rally | 62-79 | 4 | 4 |
| 009 | Camaro | SS, RS, LT, Berlinetta, IROC-Z, Z28 | 67-on | 3 | 3 |
| 010 | Monte Carlo (RWD only) | LS, SS, Aerocoupe, Landau | 70-77 78-88 | 4 3 | 4 3 |
| 011 | Vega | GT, Cosworth | 71-77 | 2 | 2 |
| 012 | Monza | Spyder, 2 + 2, Towne Coupe | 75-80 | 2 | 2 |
| 013 | Chevette | S, Scooter, CS | 76-87 | 2dr-1 4dr-2 | 1 2 |
| 015 | Citation | X-11, Citation II | 80-85 | 3 | 9*** |
| 016 | Cavalier | CS, RS, Z24, LS | 82-on | 2 | 9*** |
| 017 | Celebrity | CS, Eurosport, VR | 82-on | 3 | 9*** |
| 019 | Beretta/Corsica | GT | 88-on | 3 | 9*** |
| 020 | Lumina | Z-34, Euro | 90-on | 3 | 9*** |
| 031 | Spectrum | | 85-on | 1 | 1 |
| 032 | Nova/Geo Prizm | CL, NUMMI-built vehicle | 85-on | 2 | 9*** |
| 033 | Sprint/Geo Sprint | | 85-on | 1 | 1 |
| 034 | Geo Metro | LSi, Xfi | 89-on | 1 | 1 |
| 035 | Geo Storm | Gsi | 85-on | 1 | 1 |
| 036 | Monte Carlo (FWD only) | Z34 | 95-on | 3 | 9*** |
| 037 | Malibu | | 97-on | TBD | TBD |
| 398 | Other automobile | | | | |

GENERAL VEHICLE FORM

GV06 (17)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "20" CHEVROLET

CODE MODEL **INCLUDES** YEAR SIZE **STIFFNESS**

399 Unknown automobile

Applies to front and rear impacts. Use size value for side impacts.
 Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

GV06 (18)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "20" CHEVROLET (Continued)

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|--|--|----------------|--------|-----------|
| 401 | S-10 Blazer Blazer | S-10 p/u based (100.5" WB) | 83-94 95-on | 2 | 7** |
| 402 | Geo Tracker | Lsi | 89-on | 2 | 8** |
| 421 | Fullsize Blazer | K-series, fullsized p/u based Tahoe | 69-94 95-on | 3 | 8** |
| 431 | Suburban | All models | all | 6 | 8** |
| 441 | Astro Van | Minivan | 85-on | 7 | 7** |
| 442 | Lumina APV | | 90-on | 3 | 7** |
| 443 | Ventura | | 97-on | TBD | TBD |
| 461 | G-series van | Beauville, Chevy Van, Sport Van, G10-G3 Express | 30, all | 7 | 7** |
| 466 | P-series van | | all | 7 | 7** |
| 470 | Van derivative | Hi-cube, Parcel Van | all | 7 | 7** |
| 471 | S-10/T-10 | 4 X 4 | 82-on | per WB | 8** |
| 472 | LUV | Imported pickup | all | 7 | 7** |
| 481 | C, K, R, V-series pickup | C10-C30, K10-K30, R10-R30, V10-V30, Silverado, C-K 1500, 2500, 3500 | all | per WB | 8** |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | | | |
| 881 | Medium/Heavy CBE | C50/60/65; M60/65; H70/80/90; J70/80/90; Bison 90; all other CBE | all | N/A | N/A |
| 882 | Medium/Heavy COE low entry | T60/65 - all other COE low entry | all | N/A | N/A |
| 883 | Medium/Heavy COE high entry | Titan 90, all other COE high entry | all | N/A | N/A |
| 884 | Medium/Heavy: Unknow engine location | n | all | N/A | N/A |
| 890 | Medium/Heavy: COE entry position unknown | | all | N/A | N/A |
| 898 | Other medium/heavy true | ck | all | N/A | N/A |
| 899 | Unknown medium/heavy | r truck | | | |
| 981 | Bus | S-60 series | all | N/A | N/A |
| 988 | Other bus | | all | N/A | N/A |
| 989 | Unknown bus type | | | | |
| 998 | Other vehicle | | | | |

GENERAL VEHICLE FORM

GV06 (19)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "20" CHEVROLET (Continued)

CODE MODEL INCLUDES YEAR SIZE STIFFNESS

999 Unknown vehicle - - -

^{**} Applies to front and rear impacts. Use size value for side impacts.

GV06 (20)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "21" OLDSMOBILE

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|---------------------|---|-------------------------|-------------|----------------|
| 001 | Cutlass (RWD-only) | Supreme, S, LS, Salon Brougham, Vista Cruiser, F85 (thru 72) Rallye 350, Hurst Olds, 442, Calais, Classic (88) | -77 78-88 | 4 3 | 4 3 |
| 002 | Delta 88 | Royale, Custom, Delta, Jetstar 88, Delmont 88, Starfire (thru 66), Custom Cruiser | -76 77-85 86-on | 6 4 4 | 6 4 9*** |
| 003 | Ninety-Eight | Regency, Luxury | -76 77-84 85-on | 6 5 4 | 6 5 4 |
| 005 | Toronado | XSR, Trofeo, Brougham Custom | 66-78 79-85 86-92 | 5 4 3 | 5 4 3 |
| 006 | Commercial Series | Ambulance/Hearse | all | 6 | 6 |
| 012 | Starfire | SX, GT | 75-80 | 2 | 2 |
| 015 | Omega | X-body type | RWD 75-79 FWD 80-85 | 4 3 | 4 9 |
| 016 | Firenza | S, LS, SX, Cruiser, GT | 82-88 | 2 | 9*** |
| 017 | Ciera | Cutlass Ciera, Brougham, ES | 82-on | 3 | 9*** |
| 018 | Calais | GT, ES, 500 | 85-91 | 3 | 9*** |
| 020 | Cutlass (FWD) | Supreme | 88-on | 3 | 9*** |
| 021 | Achieva | SC | 92-on | 3 | 9*** |
| 022 | Aurora | | 94-on | 4 | 9*** |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 401 | Bravada | | 91-on | 2 | 7** |
| 441 | Silhouette | | 90-on | 3 | 7** |
| 498 | Other light truck | | | | |
| 499 | Unknown light truck | | | | |
| 998 | Other vehicle | | | | |
| 999 | Unknown vehicle | | - | - | - |

Applies to front and rear impacts. Use size value for side impacts.
 Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

GV06 (21)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "22" PONTIAC

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|--------------------------|--|--------------------------------|------------------|------------------|
| 001 | Lemans/Tempest (thru 79) | Safari, T-37, Luxury, Grand Sport, GTO (-73), GT-37, Sprint, Judge Grand AM (73-75) Grand Lemans | thru 77 78-79 | 4 3 | 4 3 |
| 002 | Bonneville/Catalina/ | Brougham, Grand Safari, Safari, Grandville, 2+2 Executive, Starchief | -68 69-76 77-81 82-84 | 5 6 4 3 | 5 6 4 3 |
| | Parisienne | SE, SSE, SSEi | 87-on 83-84 | 3 4 4 | 4 4 |
| 005 | Fiero | 2M4, 2M6, GT, SE | 84-88 | 1 | 1 |
| 800 | Ventura | II, SJ, Sprint, GTO (74-on) Custom | 71-77 | 4 | 4 |
| 009 | Firebird/Trans AM | Esprit, Formula, GTA, Redbird, Yellowbird, Skybird, SE | 67-81 82-on | 3 2 | 3 2 |
| 010 | Grand Prix (RWD) | J, LJ, SJ, Brougham, 2+2 | 63-72 73-77 78-87 | 5 4 3 | 5 4 3 |
| 011 | Astre | Safari, SJ, Custom | 75-77 | 2 | 2 |
| 012 | Sunbird (thru 80) | Safari, Sport, Formula | 76-80 | 2 | 2 |
| 013 | T-1000/1000 | | 81-87 | 2dr-1 4dr-2 | 1 2 |
| 015 | Phoenix | LJ, SJ | 77-79 80-84 | 4 3 | 4 9*** |
| 016 | J2000/Sunbird Sunfire | Sunbird(84-on), LE, SE, GT, Convertible GT/SE | 82-94 95-on | 2 | 9*** |
| 017 | 6000 | STE, SE, LE | 82-on | 3 | 9*** |
| 018 | Grand AM | SE, LE | 80 85-on | 3 3 | 3 9*** |
| 020 | Grand Prix (FWD) | SE, McLaren Turbo, GTP | 88-on | 3 | 9*** |
| 031 | Lemans (88-on) | SE, Tempest (Canadian) | 88-on | 2 | 2 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 441 | Trans Sport | | 90-on | 3 | 7** |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | | | |
| 999 | Unknown vehicle | | - | - | - |

Applies to front and rear impacts. Use size value for side impacts. Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

GV06 (22)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "23" GMC

| CODE | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|--|---|---------------|--------|------------|
| 007 | Caballero/Sprint | Sierra Madre del Sur, SP | -77 78-on | 4 3 | 8** 8** |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 401 | Jimmy/Typhoon | S15 based (100.5" WB) | 83-on | 2 | 7** |
| 421 | Fullsize Jimmy/Yukon | fullsize pickup based | all | 3 | 8** |
| 431 | Suburban | all models | all | 6 | 8** |
| 441 | Safari (Minivan) | | 86-on | 7 | 7** |
| 461 | G-series van | Rally Van, Vandura, G15-G35 | all | 7 | 7** |
| 466 | P-series van | | | | |
| 470 | Van derivative | Hicube, parcel van, Value Van, Magna Van | all | 7 | 7** |
| 471 | S15/T15/Sonoma | 4 X 4, Cyclone | 82-on | per WB | 8** |
| 481 | C, K, R, V-series pickup | C15-C35, K15-K35, R15-R35, V15-V35 | i, Sierra all | per WB | 8** |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | | | |
| 881 | Medium/Heavy CBE | W5000/6000/7000 series, Brigadier/General models | all | N/A | N/A |
| 882 | Medium/Heavy COE low entry | W6000/W7000, all other COE, low entry | all | N/A | N/A |
| 883 | Medium/Heavy COE high entry | Astro 95, all other COE, high entry | all | N/A | N/A |
| 884 | Medium/Heavy: Unknow engine location | n | all | N/A | N/A |
| 890 | Medium/Heavy: COE entry position unknown | | all | N/A | N/A |
| 898 | Other medium/heavy true | ck | all | N/A | N/A |
| 899 | Unknown medium/heavy | r truck | | | |
| 981 | Bus | B6000 | all | N/A | N/A |
| 988 | Other bus | | all | N/A | N/A |
| 989 | Unknown bus type | | | | |
| 999 | Unknown vehicle | | - | - | - |

^{**} Applies to front and rear impacts. Use size value for side impacts.

GV06 (23)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "24" SATURN

| CODI | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|------------------|------------------------|-------|------|-----------|
| 001 | SL | SL1, SL2, SL3 | 91-on | 3 | 3 |
| 002 | SC | SC1, SC2 | 91-on | 2 | 2 |
| 003 | SW | SW1, SW2 | 93-on | 3 | 3 |
| 004 | EV | EV1 (electric vehicle) | 97-on | TBD | TBD |
| 398 | Other automobile | | - | - | - |
| 399 | Other automobile | | | | |
| 999 | Unknown | | - | - | - |

| MAK | E "25" | GRUMMAN | | | |
|-----|---|--|--------|------|-----------|
| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 441 | LLV | Postal vehicle (See NATB Chevrolet for VIN | l) all | N/A | N/A |
| 442 | Step-in van | Multi-stop, step van | all | N/A | N/A |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | - | - | - |
| 881 | Medium/heavy truck - C | BE | - | - | - |
| 882 | Medium/heavy truck - Clow entry | COE | - | - | - |
| 883 | Medium/heavy truck - Chigh entry | COE | - | - | - |
| 884 | Medium/heavy truck unknown engine locatio | n | - | - | - |
| 890 | Medium/heavy truck entry position unknown | | - | - | - |
| 898 | Other medium/heavy - | other | - | - | - |
| 899 | Unknown medium/heav | y truck | - | - | - |
| 983 | Bus-flat front, rear engine | Transit | all | N/A | N/A |
| 988 | Other bus | | all | N/A | N/A |
| 989 | Unknown type bus | | | | |
| 999 | Unknown vehicle | | - | - | - |

GV06 (24)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "29" OTHER DOMESTIC MANUFACTURERS **INCLUDES** CODE YEAR SIZE **STIFFNESS MODEL** Lark, Gran Turismo, Hawk, Cruiser, all associated subseries 001 Studebaker thru-66 per WB = size Avanti all per WB = size Marathon, Superba, Taxi, Aerobus 002 Checker thru-82 per WB = size Desoto, Excaliber, Stutz, Hudson, Packard, Consulier per WB 398 Other make all = size 399 Unknown make

GV06 (25)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "30" VOLKSWAGEN

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|---------------------|--|-------|------|-----------|
| 031 | Karmann Ghia | | -74 | 1 | 1 |
| 032 | Beetle 1300/1500 | flat windshield, 94.5" WB | -77 | 1 | 1 |
| 033 | Super Beetle | distinguished by curved windshield, 95.3" WB | 71-80 | 2 | 1 |
| 034 | 411/412 | Squareback/Fastback | 71-74 | 2 | 1 |
| 035 | Squareback/Fastback | Type 3, 1600 | -74 | 1 | 1 |
| 036 | Rabbit | L, GTI, Sport, LS, Custom, DL, Deluxe | 75-84 | 1 | 1 |
| 037 | Dasher | | 74-81 | 2 | 2 |
| 038 | Scirocco | 16V | 75-88 | 1 | 1 |
| 040 | Jetta | GL, GLI | 81-92 | 2 | 2 |
| 041 | Quantum | Synco | 82-88 | 2 | 2 |
| 042 | Golf | Synco, GTI, Cabriolet, GT, GL | 85-92 | 2 | 1 |
| 043 | Rabbit pickup | car/based pickup | 80-83 | 1 | 1 |
| 044 | Fox | GL | 87-on | 1 | 1 |
| 045 | Corrado | | 89-on | 2 | 2 |
| 046 | Passat | | 90-on | 2 | 2 |
| 047 | Jetta III | | 93-on | 2 | 2 |
| 048 | Golf III | | 93-on | 2 | 2 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | - | - | - |
| 401 | The Thing (181) | | 73-75 | 1 | 1 |
| 441 | Vanagon/Camper | Bus, Kombi, Van | -89 | 1 | 7** |
| 442 | Eurovan | | 92-on | 7 | 7** |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | | | |
| 998 | Other vehicle | | | | |
| 999 | Unknown vehicle | | - | - | - |

^{**} Applies to front and rear impacts. Use size value for side impacts.

GV06 (26)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "31" ALFA ROMEO

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|--------------------|---|-------|--------|-----------|
| 031 | Spider | All roadsters, Veloce, 1750/2000 roadsters | all | 1 | 1 |
| 032 | Sports Sedan | All 4 door sedans; Milano (86), Giulia, Super, Berlina, Alfetta, 1750/2000 sedans | all | per WB | = size |
| 033 | Sprint Veloce | All 2-door coupes; Alfetta GT, | all | per WB | = size |
| 034 | GTV-6 | 1750/2000 GTV, Sprint GT | 81-on | 1 | 1 |
| 035 | 164 | | 89-on | 3 | 3 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 999 | Unknown vehicle | | - | - | - |

| MAK | (E "32" | AUDI | | | |
|-----|--------------------|------------------------------|-------------------------|--------|-----------|
| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 031 | Super 90 | | 70-72 | 2 | 2 |
| 032 | 100 A6 | S, LS, GL Quattro (89-on) | 70-77 89-94 95-on | 3 | 3 3 |
| 033 | Fox | | 74-79 | 2 | 2 |
| 034 | 4000 | Quattro, Coupe GT, CS, S | 80-88 | 2 | 2 |
| 035 | 5000 | Quattro, CS, S, Turbo | 78-88 | 3 | 3 |
| 036 | 80 90 | Quattro Quattro | 88-92 88-95 | 2 2 | 2 2 |
| 037 | 200 | Quattro | 89-92 | 3 | 3 |
| 038 | V-8 Quattro | | 90-94 | 3 | 3 |
| 039 | Coupe Quattro | | 90-93 | 2 | 2 |
| 040 | S4 S6 | | 93-94 95-on | 3 | 3 |
| 041 | Cabriolet | | 94-on | 2 | 2 |
| 042 | A4 | | 96-on | TBD | TBD |
| 043 | A3 | | 96-on | 2 | 2 |
| 044 | A8 | | 96-on | TBD | TBD |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 999 | Unknown vehicle | | - | - | - |

GV06 (27)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "33"

AUSTIN/AUSTIN HEALEY

| COD | DE MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|--------------------|-----------|------|------|-----------|
| 031 | Marina | GT | all | 2 | 2 |
| 032 | America | | all | 1 | 1 |
| 033 | Healey Sprite | | all | 1 | 1 |
| 034 | Healy 3000 | Healy 100 | all | 1 | 1 |
| 035 | Mini | | all | 1 | 1 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 999 | Unknown vehicle | | - | - | - |

| MAK | Œ "34" | BMW | | | |
|---------------------------------|---|---|----------------|--------|-----------|
| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 031 | 1600, 2002 | Tii, 1800, 2000CS | -76 | 2 | 2 |
| 032 | Coupe | 2800CS, 3.0CS | 69-76 | 3 | 3 |
| 033 | Bavaria Sedan | 2500, 2800 | 69-74 | 3 | 3 |
| 034 | 3-series | 318i, 318ti, 320i, 325e, 325es, 325i, 328, M3 | 77-on | 2 | 2 |
| 035 | 5-series | 524i, 528i, 530i, 533i, 535i, TD 525i (wagon), M5, 540iA, 540i | 75-on 93-on | 3 3 | 3 3 |
| 036 | 6-series | 630, 633, 635, csi, M6 | 77-on | 3 | 3 |
| 037 | 7-series | 733i, 735i, L7, 740i, 750iL | 78-on | 3 | 3 |
| 038 | 8-series | 850, 840ci | 90-on | per WB | per WB |
| 039 | Z3 | | 96-on | TBD | TBD |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| | Motorcycles | | | | |
| 701 702 703 704 705 | 0-50cc 51-124cc 125-349cc 350-449cc 450-749cc | | | | |

GENERAL VEHICLE FORM

GV06 (28)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "34" BMW

CODE MODEL **INCLUDES** YEAR SIZE **STIFFNESS**

Motorcycles

706 750cc-over

709 Unknown cc

Unknown motored cycle Unknown vehicle 799

999

GV06 (29)

Variable Name: Vehicle Model (specify): [cont'd.]

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------------|----------------------|---|-------------------------|-------------|-------------|
| 031 | F10 | | 77-78 | 1 | 1 |
| 032 | 200/240 SX | | 78-83 84-on | 1 2 | 1 2 |
| 033 | 1200/210/B210 | Honeybee | 71-82 | 1 | 1 |
| 034 | Z-car, ZX | 240/260/280Z, 300 ZX, Turbo 2 + 2 2 + 2 | 70-on 75-78 79-on | 1 3 2 | 1 3 2 |
| 035 | 310 | | 79-82 | 1 | 1 |
| 036 | 510 | PL | 68-73 78-81 | 2 1 | 2 1 |
| 037 | 610 | PL | 73-76 | 2 | 2 |
| 038 | 710 | PL | 74-77 | 2 | 2 |
| 039 | 810/Maxima | | 77-on | 3 | 3 |
| 040 | Roadster | SPL 311, SRL 311, 1600, 2000, convertible | -70 | 1 | 1 |
| 041 | PL411, RL411 | | -67 | 1 | 1 |
| 042 | Stanza | XE | 82-92 | 2 | 2 |
| 043 | Sentra | | 83-on | 1 | 1 |
| 044 | Pulsar | NX, EXA (86-on | 83-90 | 2 | 2 |
| 045 | Micra | | 87-on | 1 | 1 |
| 046 | NX 1600/2000 | | 92-on | 2 | 2 |
| 047 | Altima | | 93-on | 2 | 2 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 401 | Pathfinder | MPV, 4 x 4 | 86-on | 3 | 8** |
| 441 7** | Van | XE, GXE | | 88-on | 1 |
| 442 | Axxess | | 89-90 | 3 | 7** |
| 443 | Quest | | 93-on | 4 | 7 |
| 471 | Datsun/Nissan Pickup | PL620, King Cab, Hardbody | 73-on | per WB | 8** |
| 498 | Other light truck | Patrol (1960) | - | - | - |
| 499 | Unknown light truck | | | | |

^{**} Applies to front and rear impacts. Use size values for side impacts.

GV06 (30)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "35" NISSAN/DATSUN (Continued)

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|-----------------------------|----------|------|------|-----------|
| 883 | Medium/Heavy COE high entry | | all | N/A | N/A |
| 898 | Other medium/heavy truck | | all | N/A | N/A |
| 899 | Unknown medium/heavy tr | uck | | | |
| 999 | Unknown vehicle | | - | - | - |

| MAKE "36" | | FIAT | | | |
|-----------|---|------------------|-------|------|-----------|
| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 031 | 124 (Coupe/Sedan) | Sport | 67-75 | 1 | 1 |
| 032 | 124 Spider/Racer | Spider 2000/1500 | 68-83 | 1 | 1 |
| 033 | Brava - 131 | | 75-82 | 2 | 2 |
| 034 | 850 (Coupe/Spyder) | | 67-73 | 1 | 1 |
| 035 | 128 | | 72-79 | 2 | 2 |
| 036 | X-1/9 | | 75-83 | 1 | 1 |
| 037 | Strada | | 79-83 | 2 | 2 |
| 398 | Other automobile | 600, 1100 | - | - | - |
| 399 | Unknown automobile | | | | |
| 882 | Medium/Heavy COE low entry | | all | N/A | N/A |
| 883 | Medium/Heavy COE high entry | | all | N/A | N/A |
| 890 | Medium/heavy COE entry position unknown | | all | N/A | N/A |
| 898 | Other medium/heavy true | ck | all | N/A | N/A |
| 899 | Unknown medium/heavy | truck | | | |
| 999 | Unknown vehicle | | - | - | - |

GV06 (31)

Variable Name: Vehicle Model (specify): [cont'd.]

HONDA (ACURA: See "54") **MAKE "37"**

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|---|---|--|-----------------------|-------------|-------------------|
| 031 | Civic/CRX | 1300, 1500, CVCC, DX, EX, VX CRX, S, Si, HF, 4WD Wagon | all | 1 | 1 |
| | del Sol | | 93-on | 1 | 1 |
| 032 | Accord | LX, CVCC, SE-i, LX-i, EX, EX wagon 6-cylinder LX/EX | -81 82-86 87-on | 1 2 3 | 1 9*** 9*** |
| 033 | Prelude | Si | 80-83 84-on | 1 2 | 1 9*** |
| 034 | 600 | Coupe, Sedan | all | 1 | 1 |
| 398 | Other automobile | | | | |
| 399 | Unknown automobile | | | | |
| 401 | Passport | | 94-on | 3 | 8** |
| 441 | Odyssey | | 95-on | per wb | per wb |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | | | |
| | Motorcycle | | | | |
| 701 702 703 704 705 706 709 | 0-50cc 51-124cc 125-349cc 350-449cc 450-749cc 750cc or greater Unknown cc | | | | |
| | <u>A</u> II <u>T</u> errain <u>C</u> ycles/ <u>V</u> ehic | les | | | |
| 731 732 733 734 739 | 0-50cc 51-124cc 125-249cc 350cc or greater Unknown cc | includes all ATCs/ATVs designed solely for off-road use. | | | |
| 799 | Unknown motored cycle | | | | |
| 999 | Unknown vehicle | | - | - | - |

Applies to front and rear impacts. Use size values for side impacts.
 Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impacts.

GV06 (32)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "38" ISUZU

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|---|--------------|------------------|------|-----------|
| 031 | I-Mark | S, RS, Turbo | 85-89 | 1 | 1 |
| 032 | Impulse | Turbo, RS | 84-on | 2 | 2 |
| 033 | Stylus | | 90-on | 2 | 2 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 401 | Trooper/Trooper II | Deluxe, LS | 84-on | 2 | 7** |
| 402 | Rodeo | | 91-on | 3 | 8** |
| 403 | Amigo | | 89-94 | 2 | 8** |
| 441 | Oasis | | 96-on | TBD | TBD |
| 471 | P'up (pickup) Hombre | 4 x 4 | Thru 95 96-on | 3 | 8** |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | | | |
| 881 | Medium/Heavy - CBE | | all | N/A | N/A |
| 882 | Medium/Heavy COE low entry | | all | N/A | N/A |
| 883 | Medium/Heavy COE high entry | | all | N/A | N/A |
| 884 | Medium/Heavy unknown engine location | | all | N/A | N/A |
| 890 | Medium/Heavy COE entry position unknown | | all | N/A | N/A |
| 898 | Other medium/heavy true | ck | all | N/A | N/A |
| 899 | Unknown medium/heavy | truck | | | |
| 981 | Conventional front engine | е | | | |
| 982 | Front engine/flat front | | | | |
| 983 | Rear engine/flat front | | | | |
| 988 | Other bus | | | | |
| 989 | Unknown bus type | | | | |
| 999 | Unknown vehicle | | - | - | - |

^{**} Applies to front and rear impacts. Use size value for side impacts.

GV06 (33)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "39" JAGUAR

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|--------------------|-----------------------------|-------|--------|-----------|
| 031 | XJ-S Coupe | | 76-on | 3 | 3 |
| 032 | XJ6/12 Sedan/Coupe | L, XJ, C, 340/420 Sedan | all | 3 | 3 |
| 033 | XKE | V12, Roadster, 120 2 + 2 | all | 2 3 | 3 3 |
| 034 | X100 | | 97-on | TBD | TBD |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 999 | Unknown vehicle | | - | - | - |

| M | AKE " | '40" | LANCIA | | | |
|----|-------|--------------------|----------|------|------|-----------|
| С | ODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 03 | 31 B | eta Sedan - HPE | | -80 | 2 | 2 |
| 03 | 32 B | eta Coupe - Zagato | | -82 | 1 | 1 |
| 03 | 33 S | corpion | | -78 | 1 | 1 |
| 39 | 98 O | ther automobile | | - | - | - |
| 39 | 99 U | nknown automobile | | | | |
| 99 | 99 U | nknown vehicle | | - | - | - |

GV06 (34)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "41" MAZDA

| CODI | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|---------------------|---|--------------|------------------|------------|
| 031 | RX2 | | 72-74 | 2 | 2 |
| 032 | RX3 | | 72-78 | 1 | 1 |
| 033 | RX4 | | 74-78 | 2 | 2 |
| 034 | RX7 | S, GS, GSL, SE | 79-on | 2 | 2 |
| 035 | GLC/Protege 323 | DX, Protege (90-on) | 77-on -94 | 1 | 1 |
| 036 | Cosmo | | 76-78 | 2 | 2 |
| 037 | 626 | GT, GS, GSL, SE | 79-on | 2 | 2 |
| 038 | 808 | | 72-77 | 1 | 1 |
| 039 | Mizer | | 76 | 1 | 1 |
| 040 | R-100 | | -72 | 1 | 1 |
| 041 | 616/618 | | -72 | 2 | 2 |
| 042 | 1800 | | -72 | 2 | 2 |
| 043 | 929 | | 88-96 | 3 | 3 |
| 044 | MX-6 | Turbo | 88-on | 2 | 2 |
| 045 | Miata | | 90-on | 1 | 1 |
| 046 | MX-3 | GS | 92-on | 1 | 1 |
| 047 | Millenia | | 95-on | 3 | 3 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 401 | Navajo | | 91-on | 3 | 8** |
| 441 | MPV | | 89-on | 3 | 7** |
| 471 | Mazda pickup | B-2000, B-2200, B-2600, SE-5, LX, Cab Plus, B-4000 | all 94-on | per WB per WB | 8** 8** |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | | | |
| 999 | Unknown vehicle | | - | - | - |

^{**} Applies to front and rear impacts. Use size value for side impacts.

GV06 (35)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "42" MERCEDES BENZ

(Check "INCLUDES" comments carefully to determine proper code.)

| CODI | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|--|--|--------------------------------|------|-----------|
| 031 | 200/220/230/240/250/26 280/300/320 | 60/ Sedan and 5 passenger "C" only, SE, SD, TD, TE, CE, E. <i>DOES NOT</i> include (75 on), <i>300 SD</i> - see code 037 | CD, D, all de 280 SE | 3 | 3 |
| 032 | 230/280 SL | 2 seater only | all | 1 | 1 |
| 033 | 300/350/380/450/500 SI 560 SL | _/ 2 seater only, 300/500 SL (90-on) | all | 2 | 2 |
| 034 | 350/380/420/450/560 SI | _C | all | 4 | 4 |
| 035 | 280/300 SEL | | all | 4 | 4 |
| 036 | 380/420/450/500/560 SE and 500/560 SEC/350 S 300 SDL | | all | 4 | 4 |
| 037 | 300 SE/380/450 SE | 280 S, 280 SE (75 on), 300 SD Sedan/350 SD | all | 4 | 4 |
| 038 | 600, 6.9 Sedan | Pullman | all | 6 | 6 |
| 039 | 190 | D, E, 2.3, 2.5 | all | 3 | 3 |
| 040 | 300 | CE Cabriolet | 93-on | 3 | 3 |
| 041 | 400/500 E | SE | 92-on | 3 | 3 |
| 042 | 220/280 C | | 94-on | 3 | 3 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 401 | AAV | | 97-on | TBD | TBD |
| 470 | Van derivative | Kurbstar | 82-on | N/A | N/A |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | | | |
| 881 | Medium/Heavy - CBE | | all | N/A | N/A |
| 882 | Medium/Heavy - COE low entry | | all | N/A | N/A |
| 883 | Medium/Heavy - COE high entry | | all | N/A | N/A |
| 884 | Medium/Heavy: Unknow engine location | n | all | N/A | N/A |
| 890 | Medium/Heavy: COE entry position unknown | | all | N/A | N/A |
| 898 | Other medium/heavy | | all | N/A | N/A |
| 899 | Unknown medium/heavy | / | - | - | - |
| 981 | Medium bus | | all | N/A | N/A |
| 988 | Other bus | | - | - | - |

GENERAL VEHICLE FORM

GV06 (36)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "42" MERCEDES BENZ

(Check "INCLUDES" comments carefully to determine proper code.)

| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-------|------------------|----------|------|------|-----------|
| 989 U | Inknown type bus | | | | |
| 999 U | Inknown vehicle | | - | - | - |

GV06 (37)

Variable Name: Vehicle Model (specify): [cont'd.]

MG

MAKE "43"

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|--------------------|-------------|-------|------|-----------|
| 031 | Midget | MKIII, 1500 | -79 | 1 | 1 |
| 032 | MGB | | 76-79 | 1 | 1 |
| 033 | MGB | GT | 67-75 | 1 | 1 |
| 034 | MGA | | all | 1 | 1 |
| 035 | TA/TC/TD/TF | | all | 1 | 1 |
| 036 | MGC | GT | -69 | 1 | 1 |
| 398 | Other automobile | Sport Sedan | - | - | - |
| 399 | Unknown automobile | | | | |
| 999 | Unknown vehicle | | - | - | - |

| MAK | E "44" | PEUGEOT | | | |
|--------------------------|--|--|-------|--------|-----------|
| CODI | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 031 | 304 | | 71-73 | 3 | 3 |
| 032 | 403 | | -67 | 3 | 3 |
| 033 | 404 | Station Wagon | -70 | 3 4 | 3 4 |
| 034 | 504/505 | STI, STX, Turbo, S, GL, GLS, Liberte Station Wagon | 70-91 | 3 4 | 3 4 |
| 035 | 604 | SL, D | 77-84 | 3 | 3 |
| 036 | 405 | Mi-16 | 89-91 | 3 | 9*** |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| | Motorcycle | | | | |
| 701 702 709 799 | 0- 50cc 51-124cc Unknown cc Unknown motored cycle | | | | |
| 999 | Unknown vehicle | | - | - | - |

^{***} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impact.

GV06 (38)

Variable Name: Vehicle Model (specify): [cont'd.]

| RSCHE |
|-------|
| |

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|--------------------|--|-------------------|------|-----------|
| 031 | 911 | L, S, E, T, SC, Carrera, Slopenose, Speed Panorama | ster all 96-on | 1 | 1 |
| 032 | 912 | E, T | -69 | 1 | 1 |
| 033 | 914 | S, 1.8, 2.0, 914/6 | 70-76 | 2 | 2 |
| 034 | 924 | Turbo, S | 77-88 | 1 | 1 |
| 035 | 928 | S | 78-on | 2 | 2 |
| 036 | 930 | Turbo | 79 | 1 | 1 |
| 037 | 944 | Turbo, S | 83-91 | 1 | 1 |
| 038 | 959 | | 89-94 | 1 | 1 |
| 039 | | | 92-95 | 1 | 1 |
| 040 | 986 | | 96-on | 1 | 1 |
| 398 | Other automobile | Spyder, Speedster, 356 | - | - | - |
| 399 | Unknown automobile | | | | |
| 999 | Unknown vehicle | | - | - | - |

GENERAL VEHICLE FORM

| MAKE "46" | | RENAULT | | | |
|-----------|-------------------------------------|---------------------------|---------|--------|-----------|
| CODE | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 031 | LeCar | 5 | 76-83 | 2 | 2 |
| 032 | Dauphine/10/R-8/Caravelle | all models | thru-71 | 1 | 1 |
| 033 | 12 | R12L, R12TL | 72-77 | 2 | 2 |
| 034 | 15 | R15TL | 73-76 | 2 | 2 |
| 035 | 16 | R16 | 69-72 | 3 | 3 |
| 036 | 17 | R17, Gordini Coupe, R17TL | 73-80 | 2 | 2 |
| 037 | R18i | Sportwagon | 81-on | 2 | 2 |
| 038 | Fuego | TL, TS, GTL, GTS, Turbo | 82-85 | 2 | 2 |
| 039 | Alliance/Encore GTA, Convertible | L, DL, Limited, X-37 | 83-on | 2 | 2 |
| 041 | Alpine | GT | 87-on | per WB | per WB |
| 044 | Medallion | DL, LX | 87-only | 3 | 3 |
| 045 | Premier | | 87-only | 3 | 3 |
| 398 | Other automobile | | - | - | - |

GV06 (39)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "46" RENAULT

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|--------------------|----------|------|------|-----------|
| 399 | Unknown automobile | | | | |
| 999 | Unknown vehicle | | - | - | - |

GV06 (40)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "47" SAAB

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|--------------------|---------------------|----------------|------|-----------|
| 031 | 99/99E/900 | S, Turbo, Cabriolet | all | 2 | 2 |
| 032 | Sonnett | II, III, V-4 | 68-74 | 1 | 1 |
| 033 | 95/96/97 | | -73 | 2 | 2 |
| 034 | 9000 CS | S, Turbo | 85-on 93-on | 3 | 3 |
| 398 | Other automobile | Monte Carlo 850 | - | - | - |
| 399 | Unknown auotmobile | | | | |
| 999 | Unknown vehicle | | - | - | - |

| MAKE "48" | SUBARU |
|-----------|--------|
| | |

| CODE | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|----------------------------------|-------------------------------|----------------|--------|-----------|
| 031 | DL/FE/G/GF/GL/GLF/STD/ Loyale | 4 wheel drive, Turbo | 72-89 90-94 | per WB | = size |
| 032 | Star | | 70-71 | 2 | 2 |
| 033 | 360 | | 69-70 | 1 | 1 |
| 034 | Legacy | Brighton, Outback, Outback II | 89-on | 2 | 2 |
| 035 | XT/XT6 | 4WD Turbo, convertible, DL | 86-on | 2 | 2 |
| 036 | Justy | DL, GL | 87-94 | 1 | 1 |
| 037 | SVX | | 92-on | 3 | 3 |
| 038 | Impreza | Outback, Outback II | 93-on | 2 | 2 |
| 043 | Brat | DL, GL | 78-on | 2 | 2 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 999 | Unknown vehicle | | - | - | - |

GV06 (41)

Variable Name: Vehicle Model (specify): [cont'd.]

TOYOTA MAKE "49"

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|---------------------|--|--------------------------|--------|------------|
| 031 | Corona | Mark II, Custom, 1900, 2000, Deluxe | -82 | 2 | 2 |
| 032 | Corolla | 1100, 1200, 1600, SR-5, LE, Deluxe, Cu FX16 | stom, 69-85 FWD 86-on | 1 2 | 1 9*** |
| 033 | Celica | 1900, 2000, GT, ST, GTS (-93) | 72-on | 2 | 2 |
| 034 | Supra | Celica Supra, Soarer | 79-on | 3 | 3 |
| 035 | Cressida | | 78-92 | 3 | 3 |
| 036 | Crown | 2300, 2600 | -71 | 3 | 3 |
| 037 | Carina | 2000 | 72-73 | 2 | 2 |
| 038 | Tercel | Corolla Tercel, 4WD Wagon | 80-on | 2 | 2 |
| 039 | Starlet | | 81-84 | 1 | 1 |
| 040 | Camry | LE, Deluxe, XLE, Coupe | 83-on | 3 | 3 |
| 041 | MR-2 | | 85-95 | 1 | 1 |
| 042 | Paseo | | 92-on | 1 | 1 |
| 043 | Avalon | | 95-on | 3 | 3 |
| 398 | Other automobile | 2000 GT Coupe (1960s) | - | - | - |
| 399 | Unknown automobile | | | | |
| 401 | 4-Runner | | 85-on | 3 | 8** |
| 402 | RAV-4 | | 96-on | TBD | TBD |
| 421 | Landcruiser | | 76-on | 3 | 8** |
| 441 | Minivan Previa | LE, Cargo | 84-90 91-on | 1 4 | 7** 7** |
| 471 | Pickup | SR-5, Extra Cab, Sport, LN44, Chinook, Wonder Wagon | 74-on | per WB | 8** |
| 472 | Tacoma | | 95-on | TBD | TBD |
| 481 | T-100 | | 93-on | per WB | 8** |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | | | |
| 999 | Unknown vehicle | | - | - | - |

O-56

GENERAL VEHICLE FORM

GV06 (42)

Applies to front and rear impacts. Use size value for side impacts.
 Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impact.

| MAK | E "50" | TRIUMPH | | | |
|--|---|----------------------|-------|------|-----------|
| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 031 | Spitfire | I, II, III, IV, 1500 | -81 | 1 | 1 |
| 032 | GT-6 | MK3 | 67-73 | 1 | 1 |
| 033 | TR4 | TR2, TR3, TR4A | -68 | 1 | 1 |
| 034 | TR6 | | 69-76 | 1 | 1 |
| 035 | TR7/8 | | 75-81 | 1 | 1 |
| 036 | Herald | Vitesse | - | - | - |
| 037 | Stag | | 71-73 | 2 | 2 |
| 398 | Other automobile | 2000, 1200 series | - | - | - |
| 399 | Unknown automobile | | | | |
| | Motorcycles | | | | |
| 701 702 703 704 705 706 709 799 | 0- 50cc 51-124cc 125-349cc 350-449cc 450-749cc 750cc or greater Unknown cc Unknown motored cycle | | | | |
| 999 | Unknown vehicle | | - | - | - |

GV06 (43)

| MAKE "51" | | VOLVO (Includes Volvo/White and Volvo/GM Heavy Trucks) | | | | |
|-----------|--|--|----------------|--------|-----------|--|
| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS | |
| 031 | 122 | S | -68 | 3 | 3 | |
| 032 | 142/144/145 | S, E, GL, GLS, Deluxe | -74 | 3 | 3 | |
| 033 | 164 | S, E | 69-75 | 3 | 3 | |
| 034 | 240/242/244/245 | DL, GL, GLE, GLT, Deluxe | 75-on | 3 | 3 | |
| 035 | 262/264/265 | GL | 76-82 | 3 | 3 | |
| 036 | 1800 | E, S, ES | -73 | 2 | 2 | |
| 038 | 760 780 | GLE, Turbo | 83-90 87-92 | 3 3 | 3 3 | |
| 039 | 740 | GLE, GT, Turbo, GL | 86-92 | 3 | 3 | |
| 040 | 940 | GLE, Turbo, SE | 91-on | 3 | 3 | |
| 041 | 960 | | 92-on | 3 | 3 | |
| 042 | 850 | GLT, Wagon | 93-on | 3 | 3 | |
| 398 | Other automobile | | - | - | - | |
| 399 | Unknown automobile | | | | | |
| 881 | Medium/Heavy CBE | | all | N/A | N/A | |
| 882 | Medium/Heavy COE low entry | | all | N/A | N/A | |
| 883 | Medium/Heavy COE high entry | | all | N/A | N/A | |
| 884 | Medium/Heavy: Unknown engine location | | all | N/A | N/A | |
| 890 | Medium/Heavy: COE entry position unknown | | all | N/A | N/A | |
| 898 | Other medium/heavy truck | Κ. | all | N/A | N/A | |
| 899 | Unknown medium/heavy t | ruck | - | - | - | |
| 981 | Medium bus | | all | N/A | N/A | |
| 988 | Other bus | | all | N/A | N/A | |
| 989 | Unknown type bus | | | | | |
| 999 | Unknown vehicle | | - | - | - | |

GV06 (44)

| MAKE | E "52" | MITSUBISHI | | | |
|------|------------------------------|------------------------|-------|------------------------------|------------|
| CODE | MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 031 | Starion | 2 + 2, LE, Turbo | 83-90 | 2 | 2 |
| 032 | Tredia | L, LS, Turbo | 83-88 | 2 | 2 |
| 033 | Cordia | L, Turbo | 83-88 | 2 | 2 |
| 034 | Galant | ECS, Sigma (thru 88) | 85-on | 3 | 3 |
| 035 | Mirage | L, Turbo | 85-on | 1 | 1 |
| 036 | Precis | | 88-on | 1 | 1 |
| 037 | Eclipse | | 90-on | 2 | 2 |
| 038 | Sigma | | 89-90 | 3 | 3 |
| 039 | 3000GT | Spyder, VR-4 | 91-on | 2 | 2 |
| 040 | Diamante | | 92-on | 3 | 3 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 401 | Montero | Sport | 85-on | 1 | 8** |
| 441 | Minivan | LS | 87-on | 1 | 7** |
| 442 | Expo Wagon | LRV, Sport | 92-95 | 99.2" WB = 2 107.1 WB = 3 | 7** 7** |
| 471 | Pickup | Mighty Max, SPX, 4 x 4 | all | 3 | 8** |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | | | |
| 882 | Medium/Heavy - COE low entry | FUSO FE | all | N/A | N/A |
| 898 | Other medium/heavy truck | ζ. | - | - | - |
| 899 | Unknown medium/heavy to | ruck | | | |
| 981 | Conventional front engine | | | | |
| 982 | Front engine/flat front | | | | |
| 983 | Rear engine/flat front | | | | |
| 988 | Other bus | | | | |
| 989 | Unknown type bus | | | | |
| 999 | Unknown vehicle | | - | - | - |

^{**} Applies to front and rear impacts. Use size value for side impacts.

GV06 (45)

| | MAKE "53" | SUZUKI |
|--|-----------|--------|
|--|-----------|--------|

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|---|--|--|-------|------|-----------|
| 031 | SA310 | GLX | 86-on | 1 | 1 |
| 034 | Swift | GTi, GTX | 89-on | 1 | 1 |
| 035 | Esteem | | 95-on | TBD | TBD |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 401 | Samurai | Standard, Deluxe | 85-95 | 1 | 8** |
| 402 | Sidekick | Sidekick Sport | 89-on | 2 | 8** |
| 403 | X-90 | | 96-on | TBD | TBD |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | | | |
| | Motorcycles | | | | |
| 701 702 703 704 705 706 709 | 0- 50cc 51-124cc 125-349cc 350-449cc 450-749cc 750cc-over Unknown cc | | | | |
| | All Terrain Cycles/Vehicle | es | | | |
| 731 732 733 734 739 | 0- 50cc 51-124cc 125-349cc 350cc or greater Unknown cc | includes all ATCs/ATVs designed solely for off-road use. | | | |
| 799 | Unknown motored cycle | | | | |
| 999 | Unknown vehicle | | - | - | - |

^{**} Applies to front and rear impacts. Use size value for side impacts.

GV06 (46)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "54" ACURA

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|--------------------------|-------------------|----------------|--------|-----------|
| 031 | Integra | RS, LS, GS | 86-on | 2 | 9*** |
| 032 | Legend RL | | 86-95 96-on | 3 | 9*** |
| 033 | NSX TL | NSX-T 2.5, 3.2 | 91-95 96-on | per WB | per WB |
| 034 | Vigor | | 92-94 | 3 | 9*** |
| 035 | CL | Coupe | 96-on | TBD | TBD |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 401 | SLX | | 96-on | TBD | TBD |
| 498 | Other light truck | | | | |
| 499 | Unknown type light truck | | | | |
| 999 | Unknown vehicle | | - | - | - |

^{***} Code 9 applies only to frontal impacts. Use size code for stiffness for side or rear impact.

| MAK | E "55" | HYUNDAI | | | |
|-----|--------------------|----------|-------|------|-----------|
| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 031 | Pony | | 84-88 | 2 | 2 |
| 032 | Excel | GL, GLS | 84-94 | 1 | 1 |
| 033 | Sonata | | 89-on | 3 | 3 |
| 034 | Scoupe | | 91-95 | 1 | 1 |
| 035 | Elantra | | 92-on | 2 | 2 |
| 036 | Accent | | 95-on | 1 | 1 |
| 037 | Tiburon | | 97-on | TBD | TBD |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 999 | Unknown vehicle | | - | - | - |

GV06 (47)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "56" MERKUR

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|--------------------|----------|-------|------|-----------|
| 031 | XR4Ti | Turbo | 85-89 | 3 | 3 |
| 032 | Scorpio | Turbo | 87-90 | 3 | 3 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 999 | Unknown vehicle | | - | - | - |

GV06 (48)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "57" YUGO

| CODI | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|------|--------------------|----------------|-------|------|-----------|
| 031 | GV | GVX, Cabriolet | 86-92 | 1 | 1 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automabile | | | | |
| 999 | Unknown vehicle | | - | - | - |

| MAK | E "58" | INFINITI | | | |
|------------|---------------------|----------|-------|--------|-----------|
| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 031 | M30 | | 90-92 | 3 | 3 |
| 032 | Q45 | | 90-on | 4 | 4 |
| 033 | G20 | | 91-on | 2 | 2 |
| 034 | J30 | | 93-on | 3 | 3 |
| 035 | 130 | | 96-on | per WB | per WB |
| 398 | Other automobile | | - | - | - |
| 401 TBD | T30 | | | 97-on | TBD |
| 498 | Other light truck | | | | |
| 499 | Unknown light truck | | | | |
| 399 | Unknown automobile | | | | |
| 999 | Unknown vehicle | | - | - | - |

| MAK | E "59" | LEXUS | | | |
|-----|------------------------------|--|-------|------|-----------|
| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 031 | ES-250/ES-300 | | 90-on | 3 | 3 |
| 032 | LS-400 | | 90-on | 4 | 4 |
| 033 | SC-300/SC-400 | 2-door Coupe | 92-on | 3 | 3 |
| 034 | GS-300 | | 94-on | 3 | 3 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 421 | LX 450 | | 96-on | 3 | 8** |
| 498 | Other light truck | | | | |
| 499 | Unknown light truck | | | | |
| 999 | Unknown vehicle | | - | - | - |
| **8 | Applies to front and rear in | mpacts. Use size value for side impacts. | | | |

Applies to front and rear impacts. Use size value for side impacts.

GV06 (50)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "60" DAIHATSU

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|---------------------|----------|-------|------|-----------|
| 031 | Charade | | 90-92 | 3 | 3 |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | | | |
| 401 | Rocky | | 90-92 | | |
| 498 | Other light truck | | - | - | - |
| 499 | Unknown light truck | | | | |
| 999 | Unknown vehicle | | - | - | - |

| MAKE "61" | STERLING | | | |
|-----------------|-----------|-------|------|-----------|
| MAIL OI | OTENEINO | | | |
| CODE MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 031 827S | Li | 86-91 | 3 | 3 |
| 398 Other auton | nobile | - | - | - |
| 399 Unknown au | utomobile | - | - | - |
| 999 Unknown ve | ehicle | - | - | - |

| MAKE "62" | LAND ROVER | | | |
|---|------------|--------------|--------|------------|
| CODE MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
| 401 Discovery (LR) | | 94-on | 2 | 7** |
| 422 Defender 90 (LR) | | 94-on | 1 | 7** |
| 421 County LWB (RR) Count Classic (RR) | | -94 94-on | 3 2 | 7** 7** |
| 422 4.0 SE (RR) | | 95-on | 3 | 7** |
| 498 Other light truck | | | | |
| 499 Unknown light truck | | | | |
| 999 Unknown vehicle | | - | - | - |

GV06 (51)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "63" KIA

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|---------------------|----------|-------|--------|-----------|
| 031 | Sephia | | all | per WB | = size |
| 398 | Other automobile | | - | - | - |
| 399 | Unknown automobile | | - | - | - |
| 401 | Sportage | | 96-on | - | - |
| 498 | Other light truck | | | | |
| 499 | Unknown light truck | | | | |
| 999 | Unknown vehicle | | - | - | - |

GV06 (52)

Variable Name: Vehicle Model (specify): [cont'd.]

MAKE "69" OTHER FOREIGN

| COD | E MODEL | INCLUDES | YEAR | SIZE | STIFFNESS |
|-----|---------------------|-----------------------------------|------|--------|-----------|
| 031 | Aston Martin | Lagonda, Vantage, Volante, Saloon | all | per WB | = size |
| 032 | Bricklin | | all | per WB | = size |
| 033 | Citreon | | all | per WB | = size |
| 034 | Delorean | | all | per WB | = size |
| 035 | Ferrari | | all | per WB | = size |
| 036 | Hillman | | all | per WB | = size |
| 037 | Jensen | Healy | all | per WB | = size |
| 038 | Lamborghini | Countach 5000S, Jalpa | all | per WB | = size |
| 039 | Lotus | Europe, Esprit | all | per WB | = size |
| 040 | Maserati | Biturbo | all | per WB | = size |
| 041 | Morris | Minor | all | per WB | = size |
| 042 | Rolls Royce/Bentley | Cloud/shadow series | all | per WB | = size |
| 044 | Simca | | all | per WB | = size |
| 045 | Sunbeam | | all | per WB | = size |
| 046 | TVR | | all | per WB | = size |
| 048 | Desta | | all | per WB | = size |
| 049 | Reliant | | all | per WB | = size |
| 052 | Bertone | | all | per WB | = size |
| 053 | Lada | | all | per WB | = size |
| 398 | Other make | | all | per WB | = size |
| 399 | Unknown make | | | | |

APPENDIX P NPTS AND CENSUS JOURNEY TO WORK

USING NPTS AND CENSUS JOURNEY TO WORK

SUPPLEMENT EACH OTHER

The Census journey-to-work data provide a wealth of data on commuting, particularly data that is valid for small geographic areas, such as a city, town, place or census tract. NPTS provides coverage on travel for all purposes, not just commuting, and NPTS provides greater detail on travel characteristics than Census. However, NPTS data may not be valid for individual states or metro areas.

HOW TO USE NPTS DATA AT A STATEWIDE OR REGIONAL LEVEL

There are two ways NPTS may be used. First, NPTS can provide default values for data such as trip rates from areas of similar size in your region of the county.

Second, the 1995 NPTS data **may** allow for the construction of synthetic datasets for states or metro areas. This is a researchable concept that must be tested. With the 1990 NPTS, there were limited variables which could be used to select a "similar population" to reflect one's own region. These were variables such as MSA size categories and residential zipcode population densities. In the 1995 NPTS, many variables have been added to describe the residential area and the workplace location of respondents, without disclosing the actual geography. Among the many variables are:

- population density at the tract and block group,
- median household income and median housing value at the tract and block group,
- employment density at the tract level,
- housing tenure (own/rent) at the tract and block group level, and
- types of industries at the workplace location.

For a complete description of these variables, see **Appendix L.**

TO USE NPTS WITH CENSUS JOURNEY TO WORK

These two datasets may be used to supplement each other, but the user needs to be aware of the differences in the two sources, as described below.

COMPARISON OF NPTS AND CENSUS JOURNEY TO WORK

POPULATION COVERAGE

- Census journey-to-work data covers the entire country with a sampling rate of approximately 1 in 12 households and a simple random-sampling procedure, meaning that all households throughout the country had an equal probability of being included
- NPTS covers the entire country, but uses a stratified sampling procedure.
 The overall sampling rate is approximately 1 in 4800 households, but the
 sampling strategy means that households in some areas have a greater
 probability of being selected than households in other areas
- With the addition to the data release of the add-on samples, the overall sampling rate changes to about 1 in 2400 households, but the differences in probabilities of households in add-on areas become much greater than households in other areas.
- The census samples from a sampling frame that purportedly includes all mailing addresses in the U.S.
- The NPTS samples from a sampling frame that effectively includes all residential telephone numbers in the U.S., so that households without telephones are excluded from the sample. In addition, households in which persons are out of the home so much of the time that the telephone was never answered, or an answering machine was the only response received will not have participated in the survey.
- See summary of differences in Table P-1.

DIFFERENCES IN TRAVEL COVERAGE BETWEEN NPTS AND CENSUS

- Census requests details only about the journey to work
- NPTS requests details about all travel made by persons in the household, whether employed or not, and including travel for all purposes
- Census requests data about the "usual" journey to work, at least in reference to the week preceding the census, or the last full week the person worked
- NPTS requests travel data for a specific day for each household.

- Census collects limited data on the journey to work, including collecting only the main mode of travel (defined as the mode used for the longest time)
- NPTS collects data on both the usual or typical journey to work as well as
 the actual work trip, if a work trip was made on the household's travel day.
 For travel day trips, extensive data is collected on each trip, including
 data about all modes of travel used on any trip in which transit or Amtrak
 was used for a part of the trip.

DIFFERENCES IN SAMPLE SIZE AND GEOGRAPHY

- On the average, the Census journey-to-work data will contain data on about 40,000 households in an urban area of 1 million population.
- On the average, the NPTS will contain data on only about 80 households in an urban area of 1 million population.
- Similar contrasts will exist at other levels of jurisdiction, except for add-on areas.
- The most important implication of this is that journey-to-work data can be used for individual urban areas, even relatively small ones, while NPTS cannot provide reliable results for individual urban areas, except for addon areas.

Table P-1
COMPARISON OF NPTS AND CENSUS JOURNEY TO WORK

| ITEM | NPTS | CENSUS JTW |
|--------------------|--|--|
| Sampling Frame | all residential telephone numbers in U.S. | all household mailing addresses in U.S. |
| Sampling Rate | approximately 1 in 2400 households | 1 in 12 households |
| Sample Size | about 80 households in a metro area of 1 million people, except add-ons | about 40,000 households in a metro area of 1 million people |
| Sampling Procedure | list-assisted sample | simple random sample |
| Survey Instrument | one-day travel diary and telephone interview | mail-out self-administered survey form (long form of the decennial census) |
| Travel Coverage | all travel for one day | typical journey to work in previous week |
| Persons Reporting | Everyone 5 years and older | Workers |
| Period Coverage | full year | week prior to April 1 of decennial Census year |
| Travel Details | Usual trip - all modes, main mode, time trip started, travel time, trip distance Travel day - mode, time, vehicle occupancy, etc. | Usual trip - main mode, time trip started, travel time |
| Frequency | currently every 5 to 7 years, possibly a continuous survey in the future | every 10 years |

Reference: Stopher, Peter and Metcalf, Helen M. A., PlanTrans, Draft of Training Modules for NPTS Data Releases, Summer, 1997

APPENDIX Q LINKED & UNLINKED TRIPS

DEFINITIONS

Understanding the difference between linked and unlinked trips is critical primarily for understanding transit trips. One problem pertains to how transit trips are reported. If you take a bus, then transfer to another bus, this is counted as 2 trips for the FTA National Transit Database (Section 15). However, this is considered one trip in regional transportation planning models.

| Origin | Destination | Mode | Purpose |
|----------------------|----------------------|------|-----------------------|
| Home | Bus transfer station | Bus | change to another bus |
| Bus transfer station | Work | Bus | to work |

Another transit trip linking issue relates to access and egress to the transit service. Transit trips may begin with a walk trip, a passenger ride in a car ("kiss and ride"), driving to a park & ride lot, or may involve both bus and rail. These access and egress choices may occur at both ends of the trip.

For the individual travelling, they view the entire sequence of home to work as one trip. For the transportation planner, this same travel may be considered as one linked trip composed of three unlinked trips.

| Origin | Destination | Mode |
|-------------------|---------------------------|----------------------------|
| HOME | Park & Ride Lot | Drive alone in private veh |
| Park & Ride Lot | 14th St and 7th Ave | Bus |
| 14th St & 7th Ave | WORK: 18th St and 8th Ave | Walk |

The purpose of all three links is to reach the WORK destination. In the NPTS file, these are considered "segmented trips" and are only collected for trips in which at least one link or segment is on public transportation or Amtrak.

Note that during the NPTS telephone interview, the respondent could select a purpose of "changing travel mode," but these trips were subsequently edited into the segmented

trips during the data cleaning phase.

TRIP CHAINING

Linked and unlinked trips differs from the concept of trip chaining. Trip chains typically either begin or end at HOME or WORK and may include stops for different activities, but most likely have the same travel mode.

| Origin | Destination | Activity/Purpose | Travel Mode |
|---------------|---------------|--------------------------|-------------------|
| HOME | School | Drop off child | Drive w/passenger |
| School | Grocery Store | Buy doughnuts for office | Drive Alone |
| Grocery Store | WORK | Work | Drive Alone |

One travel demand model for an MPO (Boise, Idaho) has incorporated trip chaining into a regional model using a tour-based approach. A tour was defined as a sequence of trip segments that start at home and end at home, with home-based WORK tours and home-based OTHER tours. (Citation: Yoran Shiftan and Stephen Decker, "A Practical Method to Estimate Trip Chaining" 1995 ITE Compendium of Technical Papers.) Cambridge Systematics (Thomas Rossi and Yoran Shiftan) are conducting additional work on tour-based models for Portland, Oregon metropolitan area as part of the U.S. DOT Travel Model Improvement Program (TMIP).

APPENDIX R RELATED DATA SOURCES

PURPOSE

Many of the questions posed for the NPTS data require additional analysis of related data sources. **Appendix P** contains a comparison of NPTS and Census Journey to Work data. There are several other datasets that are often used in conjuction with NPTS. Summaries of these datasets are contained in this Appendix and were provided by the Bureau of Transportation Statistics, *Directory of Transportation Data Sources*. The related data sources, listed in subject order are:

Commuting:

Census of Transportation Planning Package (CTPP)
Census Journey to Work

Demographics:

Public-Use Microdata Sample (PUMS)

Energy Use:

Residential Energy Consumption Survey (RECS)
Residential Transportation Energy Consumption Survey (RTECS)

Long-Distance Travel:

American Travel Survey (ATS) National Travel Survey (NTS)

Motor Vehicle Accidents:

Fatal Accident Reporting System (FARS)
National Accident Sampling System (NASS)
Crashworthiness Data System
General Estimates System

Transit Use:

National Transit Database

Transportation Costs:

Consumer Expenditure Survey

Census of Population and Housing, 1990:

Census Transportation Planning Package (CTPP)

Mode

Highway, Transit

Abstract

The CTPP is a set of cost reimbursable special tabulations, produced for the Department of Transportation in each state. The detailed cross-tabulations have been designed to meet the needs of state and local transportation planners, and are provided for counties, places of 2,500 or more inhabitants and custom-defined Traffic Analysis Zones (TAZs). The CTPP is a continuation of the 1970 and 1980 Urban Transportation Planning Package programs. Geographic Coverage: The CTPP statewide tabulations will provide data for persons who live or work in the state. Data will be tabulated for the state, each county, county subdivision (only available for 9 states for workplace data), and place of 2,500 or more persons. Totals for state parts of MSAs, CMSAs, and PMSAs will also be provided, as will urbanized area totals (place of residence data only). The statewide tabulations will consist of six parts: Part A, tabulations by place of residence; Part B, tabulations by place of work; Part C tabulations by place of residence by place of work; Part D, tabulations by place of residence for areas of 75,000 or more persons; Part E, tabulations by place of work for areas of 75,000 or more persons; Part F, tabulations of place of residence by place of work for areas of 75,000 or more persons. Urban tabulations are produced for the Metropolitan Planning Organizations (MPOs) in each area where the Census TIGER/Line files contain address ranges. Data will be tabulated for either standard census geography like census tracts of block groups, or for locally- defined, custom geographic areas like TAZs. Subtotals for study area, CTPP Region, MSA, CMSA, PMSA, and urbanized area (place of residence data only) will also be provided. The urban tabulation will consist of seven parts: Part 1, tabulations by small area of residence; Part 2 tabulations by small area of work; Part 3, tabulations of small area of residence by small area of work; Part 4, tabulations of large area of residence; Part 6, tabulations of super district of residence by super district of work for regions with 1 million more persons; Part 7, tabulations by census tract of work; and Part 8, tabulations of small area of residence by small area of work for regions with one million or more persons. There is no Part 5 in the urban element 1990 CTPP.

Source of Data

1990 Census of Population and Housing. Approximately 17.7 million housing units were sampled nationwide.

Attributes:

Geographic Coverage of Data: See Abstract

Time Span of Data Source: 1990 Update Frequency: Decennial File Format: ASCII, EBCDIC

Media: 9-track Tape, 6250/1600 bpi; Tape Cartridge, IBM 3480 Compatible; CD- ROM (parts A, B, C)

Significant Features/Limitations

1990 Census data are base on a sample, and subject to sampling and nonsampling errors. Sponsoring Organization

Department of Commerce, Bureau of the Census, Journey-to-Work and Migration Statistics Branch

Availability

CD-ROM: DOT/Bureau of Transportation Statistics, 400 7th Street, SW, Room 3430, Washington, DC 20590; telephone, (202) 366-DATA; fax, (202) 366-3640. CD-ROM

currently available for Parts A, B, and C only. Urban data available in Spring 1996. Tapes: Contact state transportation agency or local metropolitan planning organization.

Contact for Additional Information:

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Census of Population and Housing, 1990: Subject Summary Tape File 20 (SSTF 20) - Journey-to-Work in the United States [D]

Mode

Highway, Transit

Abstract

This data base includes summary characteristics of economic, social, and housing data from the 1990 census. Characteristics related to journey-to-work include place of work, means of transportation to work, travel time to work, time leaving home to go to work, and private vehicle occupancy for workers 16 years old and over.

Source of Data

1990 Census of Population and Housing. Approximately 17.7 million housing units were sampled nationwide.

Attributes

Geographic Coverage of Data: SSTF 20 provides residence data for the United States, metropolitan areas, central cities, and balance of metropolitan areas in the aggregate, non-metropolitan areas in the aggregate, individual metropolitan areas, and central cities within each metropolitan area.

Time Span of Data Source: 1990 Update Frequency: Decennial File Format: ASCII, EBCDIC

Media: 9-track Tape, 6250/1600 bpi; Tape Cartridge, IBM 3480 Compatible; CD-ROM; CD-ROM with extract capability forthcoming

Significant Features/Limitations

1990 Census data are based on a sample, and subject to sampling and nonsampling errors. Sponsoring Organization

Department of Commerce, Bureau of the Census, Journey-to-Work and Migration Statistics Branch

Availability

DOC/Bureau of the Census, Customer Services, Washington, DC 20233; telephone, (301) 457-4100. Price determined by media selected. CD-ROM with extract software should be available in Winter 1996.

Contact for Additional Information

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Census of Population and Housing, 1990 : Public Use Microdata Sample (PUMS)

Mode

Highway, Transit

Abstract:

PUMS are computerized files containing most population and housing characteristics for a sample of individual long-form census records. Characteristics related to journey-to-work include place of work, means of transportation to work, travel time to work, time leaving home to go to work, and private vehicle occupancy for workers 16 years old and over.

Source of Data

1990 Census of Population and Housing. Approximately 17.7 million housing units were sampled nationwide.

Attributes

Geographic Coverage of Data: U.S. totals, state, District of Columbia., The 5% PUMS files present most population and housing characteristics on the sample questionnaire for a 5-percent sample of housing units. It shows data for all states and various subdivisions within them including most counties with 100,000 or more inhabitants individually, and groups of counties elsewhere. The 1% PUMS files present most population and housing characteristics on the sample questionnaire for a 1-percent sample of housing units. It shows data for all metropolitan territory and most MAs with 100,000 or more inhabitants individually, and groups of MAs elsewhere. The 3% Elderly PUMS files present most population and housing characteristics on the sample questionnaire for a 3-percent sample of all housing units which have one or more persons who are 60 years old or older. It shows data for all metropolitan area territory and most MAs with 100,000 or more inhabitants individually, and groups of MAs elsewhere.

Time Span of Data Source: 1990 Update Frequency: Decennial File Format: ASCII, EBCDIC

Media: 9-track Tape, 6250/1600 bpi; Tape Cartridge, IBM 3480 Compatible; CD-ROM Significant Features/Limitations

These records contain no names or addresses, and geographic identification is sufficiently broad to protect confidentiality. 1990 Census data are based on a sample, and subject to sampling and nonsampling errors.

Sponsoring Organization

Department of Commerce, Bureau of the Census, Journey-to-Work and Migration Statistics Branch

Availability

Tape, CD-ROM: DOC/Bureau of the Census, Customer Services, Washington, DC 20233; telephone, (301) 457-4100. Price determined by file size.

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Residential Energy Consumption Survey (RECS), 1990: Residential Transportation Energy Consumption Survey (RTECS), 1991

Mode

Multimodal

Abstract

This database contains 1990 RECS basic data on housing unit characteristics, annualized 1990 fuel consumption and expenditures and end-use estimates for space heating, air conditioning, water heating and appliances. The 1991 RTECS contains basic data on motor vehicle stock, vehicle miles traveled, Vehicle Identification Number (VIN) data and motor fuel consumption and expenditures. It also includes complete documentation for the survey data files. The 1990 RECS data file on 9 track tape include a SAS file description that can be used to create SAS datasets.

Source of Data

Interviews with households.

Attributes

Geographic Coverage of Data: U.S. totals, Census divisions

Time Span of Data Source: 1990/RECS; 1991/RTECS

First Developed: 1980/RECS; 1983/RTECS

Update Frequency: Triennial

Last Update: 1990/RECS; 1991/RTECS

Number of Records: ~5-6,000/RECS; 3,000/RTECS

File Size: 3MB, uncompressed File Format: ASCII, dBase

Media: 9-track Tape, 1600/6250 bpi; Diskette, Printed source

Significant Features/Limitations

The smallest unit of analysis is the household and household vehicle. However, the finest geographic identification available is the Census division.

Corresponding Print Source

Residential Energy Consumption Survey, 1980, 1981, 1982, 1984, 1987, 1990 Residential Transportation Energy Consumption Survey, 1983, 1985, 1988, 1991

Sponsoring Organization

Department of Energy, Energy Information Administration, Office of Energy Markets and End Use

Availability

National Energy Information Center, Washington, DC, 20585; telephone, (202) 586-1119 or Office of Scientific and Technical Information (OSTI); telephone, (615) 576-8401; Internet: http://www.eia.doe.gov or National Technical Information Service, Springfield, VA 22161; telephone, (703) 487-4650. The 1993 RECS data are now available but contain only three variables relating to transportation: DRIVEMON - number of drivers in household, DRIVECAR - have regular use of vehicle, VEHICLES - number of vehicles. The 1994 RTECS data should be available in 1996.

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American Travel Survey 1995

Mode

Multimodal

Abstract

The American Travel Survey 1995 measures interstate and intermetropolitan passenger travel nationwide by trip and traveler characteristics for all modes and for intermodal combinations.

Source of Data

Survey of ~80,000 households in the United States.

Attributes

Geographic Coverage of Data: United States

Time Span of Data Source: 1995

First Developed: 1994

Update Frequency: Quinquennial

Last Update: 1977

Number of Records: TBD

File Size: TBD File Format: TBD

Media: Electronic, Printed Sources

Sponsoring Organization

Department of Transportation, Bureau of Transportation Statistics

Availability

DOT/Bureau of Transportation Statistics, 400 7th Street, SW, Room 3430, Washington, DC 20590; telephone, (202) 366-3282; fax, (202) 366-3640.

Contact for Additional Information

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National Travel Survey

Mode

Multimodal

Abstract

This survey measures the travel activity of U.S. adult residents. The survey, conducted continuously since 1979, is based on telephone interviews with a national probability sample of 1,500 U.S. adults each month. Results from all client questions are proprietary and may be tabulated against all other trip and demographic data collected through the survey at no additional cost. For the National Travel Survey, a trip is defined as traveling away from home in one direction of 100 miles or more, with and without overnight stay.

Source of Data

Survey of 1,500 U.S. Adults.

Attributes

Geographic Coverage of Data: United States

Time Span of Data Source: Current year

First Developed: Ongoing Update Frequency: 1994

Sponsoring Organization

Travel Industry Association of America

Availability

TIAA, Attn Publication Department, 1100 New York Avenue, NW, Suite 450, Washington, DC 20078-2188, telephone, (202) 408-1832; fax, (202) 408-1255.

Contact for Additional Information

Staff

TIAA, Publication Department

(202) 408-1832, FAX: (202) 408-1255

Fatal Accident Reporting System (FARS)

Mode

Highway

Abstract

This system provides a census of all fatal traffic crashes in the U.S. It was developed to assist NHTSA in identifying traffic safety problems, developing and implementing vehicle and driver countermeasures, and evaluating motor vehicle safety standards and highway safety initiatives.

Source of Data

Under cooperative agreements with NHTSA, state employees extract data from medical examiners, coroners, emergency medical, and police accident reports. Data are also extracted from driver, vehicle and roadway classification records.

Attributes

Geographic Coverage of Data: 50 states, District of Columbia, Puerto Rico

Time Span of Data Source: 1975-1993

First Developed: 1975

Update Frequency: Semiannual

Last Update: 05/93

Number of Records: ~300,000/year

File Size: 30MB

File Format: SAS, Sequential, TPL Media: CD-ROM, Tape, Printed source

Significant Features/Limitations

Fatal crash data only. Detailed information on crash, vehicle, driver and occupant characteristics. Thirty day fatalities, no nonfatal crash data. CD-ROM contains data for 1988-1993.

Corresponding Print Source

Fatal Accident Reporting System: A Review of Information on Fatal Traffic Crashes in the United States annual reports, 1975-1993

Sponsoring Organization

Department of Transportation, National Highway Traffic Safety Administration, National Center for Statistics and Analysis

Availability

CD-ROM: DOT/Bureau of Transportation Statistics, 400 7th Street, SW, Room 3430, Washington, DC 20590, telephone, (202) 366-3282; fax, (202) 366-3640. Tape: DOT/RSPA, Volpe National Transportation Systems Center, DTS-44, 55 Broadway, Cambridge, MA 02142; telephone (617) 494-2640; fax, (617) 494-3633. Price, \$170/year-user manual provided with tape purchase. Printed Source: DOT/NHTSA, National Center for Statistics and Analysis, NRD-30, 400 7th Street, SW, Washington, DC 20590; telephone, (202) 366-4709; fax, (202) 366-7078.

Contact for Additional Information

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Ms. Delmas Johnson

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National Accident Sampling System Crashworthiness Data System (NASS/CDS)

Mode

Highway

Abstract

This system provides information on a nationally representative sample of police-reported crashes involving at least one towed passenger car, light truck, van or utility vehicle in the U.S. The NASS CDS was derived from the NASS CSS (Continuous Sampling System) when the focus on traffic crashes was shifted to a passenger vehicle crashworthiness system. This change was made to identify traffic safety problems, develop and implement vehicle and driver countermeasures, and evaluate motor vehicle safety standards.

Source of Data

Data are extracted, by contracted researchers, from police accident reports, vehicle and scene inspections, medical examinersÕ and coronersÕ reports, emergency room, and hospital records, driver and occupant interviews, and witnesses in 24 sites across the United States.

Attributes

Geographic Coverage of Data: National sample (24 sites) of police-reported crashes

Time Span of Data Source: 1988-present

First Developed: 1988 Update Frequency: Annual

Last Update: 09/95

Number of Records: 5,000 crashes/year

File Size: 9.5MB

File Format: SAS, Sequential Media: Tape, CD-ROM

Significant Features/Limitations

Nationally representative sample of towed passenger vehicle crashes; detailed injury information on those individuals who were injured or killed; detailed vehicle inspection for damage information on towed vehicles involved in the crash; availability of injury and vehicle damage information dictated by the level of cooperation with hospitals, tow yards, drivers, etc.

Sponsoring Organization

Department of Transportation, National Highway Traffic Safety Administration, National Center for Statistics and Analysis

Availability

DOT/RSPA, Volpe National Transportation Systems Center, DTS-44, 55 Broadway, Cambridge, MA 02142; telephone, (617) 494-2640; fax, (617) 494-3633. Price, \$150 per tape/year. User manual provided with tape purchase.

Contact for Additional Information

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National Accident Sampling System General Estimates System (NASS/GES)

Mode

Highway

Abstract

This system provides information on a probability sample of all severities of police-reported traffic crashes in the U.S. GES was created to identify highway safety problem areas, provide a basis for regulatory and consumer initiatives, and form the basis for cost and benefit analyses of highway safety initiatives.

Source of Data

NHTSA-contracted coders enter the GES data directly from sampled police accident reports. Data are from 60 geographic sites across the U.S. Data collectors make weekly, biweekly, or monthly visits to approximately 400 police agencies within 60 sites where they select a random sample of Police Accident Reports (PARS).

Attributes

Geographic Coverage of Data: National sample (60 sites) of police-reported crashes

Time Span of Data Source: 1988-present

First Developed: 1988 Update Frequency: Annual Last Update: 1994 data year

Number of Records: ~245,696/year

File Size: 38.6MB

File Format: SAS, Flat File

Media: CD-ROM, Tape, Printed source

Significant Features/Limitations

National estimates with measurable errors. Information on all severities of crashes and vehicle types. Data from police accident reports only. CD-ROM contains data for 1988-1994.

Corresponding Print Source

General Estimates System: A Review of Information on Police-Reported Traffic Crashes in the United States annual reports, 1988-1991

1992-1994 Traffic Safety Facts annual reports

Sponsoring Organization

Department of Transportation, National Highway Traffic Safety Administration, National Center for Statistics and Analysis

Availability

CD-ROM: DOT/Bureau of Transportation Statistics, 400 7th Street, SW, Room 3430, Washington, DC 20590; telephone, (202) 366-3282; fax, (202) 366-3640. Tape: DOT/RSPA, Volpe National Transportation Systems Center, DTS-44, 55 Broadway, Cambridge, MA 02142, telephone, (617) 494-2640; fax, (617) 494-3633. Printed Source: DOT/NHTSA, National Center for Statistics and Analysis, NRD-30, 400 7th Street, SW, Washington, DC 20590; telephone, (202) 366-5362/5378; fax, (202) 366-7078.

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National Transit Database [D]

Mode

Multimodal

Abstract

The National Transit Database contains detailed financial and operating data for over 500 transit agencies, including information on capital expenditures, revenues, expenses, vehicle inventories, employees, maintenance, energy, and safety and modal data on transit service supplied and consumed for over 13 report years. These data are required under Section 15 of the Federal Transit Act (FT Act) which provides for the establishment of a uniform system of accounts and records plus a reporting system for the collection and dissemination of data on public mass transit. Data are provided for over 500 transit agencies, including systems operated by transit authorities, states, city departments, and private operators under contract to public agencies.

Source of Data

The database contains annual financial and operating data filed directly by transit agencies. Attributes

Geographic Coverage of Data: U.S. totals Time Span of Data Source: Calendar year

First Developed: 1978 Update Frequency: Annual

Number of Records: Not available

File Size: 15MB

File Format: Various formats

Media: ASCII files, 9-Track Tape, Diskette, special data subsets, Lotus spreadsheets, Printed

source

Corresponding Print Source

National Transit Database N Data Tables

Transit Profiles: Agencies in Areas Exceeding 200,000 Transit Profiles: Agencies in Areas with less than 200,000

Transit Profiles: Thirty Largest Transit Agencies

Sponsoring Organization

Department of Transportation, Federal Transit Administration, Office of Program Guidance and Support

Performing Organization

Department of Transportation, Research and Special Programs Administration, Volpe National Transportation Systems Center, Service Assessment Division

Availability

DOT/RSPA/Volpe Center, Service Assessment Division, DTS-49, 55 Broadway, Cambridge, MA 02142; telephone, (617) 494-3459, fax, (617) 494-3260.

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Consumer Expenditure Survey

Mode

Multimodal

Abstract

The Consumer Expenditure Survey collects information from American households on their expenditures, income, and family characteristics. The data include household expenditures on all expenditure categories including transportation items such as vehicle purchase, vehicle maintenance, gasoline and motor oil, public transportation, and airline travel. The data are shown by classes of households, such as by income, age, family size, and region.

Source of Data

There are two Consumer Expenditure Survey components: a quarterly interview survey in which approximately 5,000 consumer units are interviewed per quarter; and a weekly diary survey in which approximately 5,000 consumer units per year keep diaries.

Attributes

Geographic Coverage of Data: U.S. totals. Data are also published by the 4 Census regions and for 26 selected metropolitan areas

Time Span of Data Source: 1980-1993

First Developed: 1980

 $Update\ Frequency: Annual/integrated\ interview\ \&\ diary\ surveys; Quarterly/interview\ survey$

Media: Tape, Diskette, Printed source

Significant Features/Limitations

Integrated data are published in an annual report. Interview data are published in a quarterly report. Micro-level data from each survey are available annually on public-use tapes. Summary level integrated data are available on diskette.

Sponsoring Organization

Department of Labor, Bureau of Labor Statistics, Division of Consumer Expenditure Surveys

Availability

DOL/BLS, Division of Consumer Expenditure Surveys, 2 Massachusetts Avenue, NE, Washington, DC 20212-0001; telephone, (202) 606-6900; fax, (202) 606-7006. Historical reports: Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone, (202) 783-3238.

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