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.

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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.

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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.

Contact for Additional Information

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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.

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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

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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.

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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.

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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

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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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