

Version of 2/14/97

**SELECTED DATA-RELATED RESOURCES & REFERENCES
FOR TRANSPORTATION PLANNING**

(Since January 1992)

Prepared for the TRB Conference on

**Information Needs to Support State & Local Transportation Decisionmaking
Into the 21st Century**

March 2-5, 1997
Irvine, CA

NOTE: The TRB Steering Committee for this conference is interested in expanding this Resource Guide. If you are aware of documents, manuals, courses, electronic media, or other material suitable for inclusion in this Guide, please provide a copy or sufficient supporting information, to the address below. References should be of general interest to State and MPO transportation planning programs.

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Purpose:

This document provides a listing of the many activities, documents, papers, research projects, conferences, training courses, other resource documents, and other available activities/products (completed or underway) that relate to the scope of this conference. A significant amount of work has been undertaken and produced recently regarding the acquisition, analysis, use, and dissemination of data for transportation planning purposes. While the scope of the conference will cover aspects of many of these resources, the depth and breadth of available material is such that this resource guide was developed for the conference attendees.

Scope:

The scope of this document is parallel to that of the conference: it contains resources on data and information that support state and local transportation decision making. The ISTEA '91 defined new institutional roles and planning requirements and much has been done since to help to better define the information and data requirements to support transportation planning programs of States and metropolitan planning organizations (MPOs). This resource guide covers the last five years, since January 1992. **This listing is not exhaustive, but provides a basic cross-section of selected material useful in developing and maintaining state, regional, and local data programs.** The primary focus (of this version 2/14/97) is on material produced by USDOT and other agencies for national distribution. Omissions of critical and pertinent references are unintentional and additional references will be considered.

Coverage and Structure:

Among the significant components of the ISTEA were two explicit listings of factors that states and metropolitan areas must consider as part of their transportation planning process. There are significant implications for data requirements in many of these factors. This resource listing is categorized by the several metropolitan and statewide planning factors with which various data needs are associated.

These factors are listed below in the five groups that comprise this guide. In some cases they have been paraphrased from the ISTEA and, where appropriate, metropolitan and statewide factors have been combined. The letters in “[]” denote the source of the factor, either statewide [S] or metropolitan [M]. Selected key words/phrases are included that help define the subjects that are included in each group.

A. Congestion Management, Mobility, and System Operation

Factors: Preservation of existing transportation facilities andusing existing transportation facilities more efficiently [M&S].
 Methods to reduce traffic congestion and to prevent it from occurring where it does not yet exist [M&S].
 Methods to expand and enhance transit services and to increase the use of such services [M&S].

Key words: operators of facilities, system operation, transportation system management, demand management, congestion management and mobility enhancement, HOV facilities and strategies, congestion management system, traffic monitoring, system performance, congestion management strategies, travel demand reduction, ITS, congestion and parking pricing, SOV reduction, transit travel demand, transit markets, transit operation, HPMS

B. Transportation and Land Use Planning and Policy

Factors: Assessing transportation policy impacts and the effect of decisions on land use and development, and assuring consistency of transportation plans with land use and development plans [M&S].
Transportation needs of non-metropolitan areas [S].
Recreational travel and tourism [S].
Bicycle and pedestrian facilities and travel [S].

Key words: travel demand, land use growth and change, comprehensive planning, travel and land use forecasting methods, economic and demographic projections, growth management, regional and local development, transportation and land use planning integration, policy planning, recreational travel, non-motorized travel

C. Transportation Impacts and Evaluation

Factors: Overall social, economic, energy, and environmental effects of transportation decisions [M&S].
Effects of all projects and the travel impacts of improvements regardless of whether such projects are publicly funded [M].

Key words: air quality, environmental impacts, transportation control measures, emissions analysis, community development, financially constrained plans; public involvement; capital, operating, and maintenance costs; cost-effective solutions; system efficiency; cross-modal trade-offs and effects of multi-modal projects, travel costs, major investment studies

D. Freight, Goods Movement, and Intermodal Facilities

Factors: International border crossings and access to other modes and facilities [M&S].
Methods to enhance the efficient movement of freight [M].

Key words: freight movement, goods movement, airport and port access, intermodal transfer facilities, major employment centers, intermodal access, freight facilities, transit terminals, truck travel

E. Other Source Documents; Web Sites; GIS & Information Systems; Data Collection & Surveys

Factors: This group covers planning topics that cut across two or more of the four groups above.

How to read the tables

TITLE	DATE	RELEVANCE	MEDIA	SOURCE
<i>Title of the resource [document or course #, if available]</i>	<i>Date of publication or expected availability if under devel.</i>	<i>Relevancy of the resource to data needs, collection, acquisition, or dissemination</i>	<i>Publishing media</i>	<i>How to get more information or obtain the resource</i>

EXAMPLE:

C. Transportation Impacts and Evaluation

Estimating the Impacts of Urban Transportation Alternatives [NHI Course#15257]	current	how to develop information to compare alternative multi-modal and demand management strategies	training course	FHWA National Highway Institute, 6300 Georgetown Pike, McLean, VA 22101 (703)235-0521; technical information: Patrick DeCorla-Souza (202)366-4076
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A. Congestion Management, Mobility, and System Operation

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TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Addressing Congestion Management System Requirements in Environmental Documents	1993	information required in environmental documents for projects that include SOV capacity	memo	FHWA(HEP-30), 400 7 th St. SW, Washington, D.C. 20590 (202)366-0106, FAX: (202)366-3409*
Advanced Public Transportation Systems: State-of-the-Art, Update '96	Jan. 1996	applications of advanced technologies in public transportation service; includes fleet mgmt., traveler information, elec. fare payment, transportation demand management	document	Federal Transit Administration (TRI-10), Office of Mobility Innovation, 400 7 th Street, S.W. Washington, D.C. 20590 (202)366-4991
Advanced Traveler Aid Systems for Public Transportation [DOT-T-95-07]	Sep. 1994	identifies information that should be provided to transit users via. new communications technologies	document	USDOT Tech. Share Pgm., Subsequent Dist. Ctr., Ardmore East Business Ctr.,3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in Section E)*
Advanced Vehicle Monitoring and Communication Systems for Bus Transit, Benefits and Economic Feasibility [DOT-T-94-03]	Rev. Mar. 1993	analyzes feasibility of advanced vehicle monitoring and communication systems for bus transit in the US	manual	USDOT Tech. Share Pgm., Subsequent Dist. Ctr., Ardmore East Business Ctr.,3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in Section E)*
Analysis of ITS Operational Tests, Findings and Recommendations [FHWA-JPO-95-009]	Sep. 1995	case studies including traveler information, real-time traffic and transit data, & commuter traffic information service using ATIS	document	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590, (202) 366-6363
Analytical Procedures to Support a Congestion Management System	1996	documents measures to identify congestion	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*

* For more details on this reference, or a more extensive list of transportation planning, environmental, or ITS resources, see Section E-1 of this guide.

A. Congestion Management, Mobility, and System Operation

TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Application of the FHWA Traffic Monitoring Guide [NHI Course # 15118]	current	procedures to develop data to support State & national programs including HPMS & congestion management	training course	FHWA National Highway Institute, 901 N. Stuart St. Suite 300, Arlington VA 22203 (703)235-0521; technical information: Alfred Miller (703)235-0521
An Assessment of High Occupancy Vehicle (HOV) Facilities in North America, Executive Report [DOT-T-94-17]	Aug. 1992	overview of status of HOV facilities; procedures for evaluating HOV projects; case studies	document	NTIS, 5285 Port Royal Rd., Springfield, VA, 22161, FAX:(703)321-8547(see also web site in Section E)*
Benefits Assessment of Advanced Public Transportation Systems (APTS)	Jul. 30, 1996	assesses current and future deployment of APTS & benefits to transit industry	document	Federal Transit Administration (TRI-10), Office of Mobility Innovation, 400 7 th Street, S.W. Washington, D.C. 20590
Building the ITI: Putting the National Architecture into Action	Apr. 1996	data flows needed to implement the ITI	handbook	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363
Congestion Management For Technical Staff [NHI Course #15259]	current	data collection, performance measures, data for monitoring recurring and nonrecurring congestion	training course	FHWA National Highway Institute, 901 N. Stuart St. Suite 300, Arlington VA 22203 (703)235-0521; technical information: Douglas Laird (202) 366-5972
Congestion Management Newsletter	periodic	timely information on congestion management and enhancing mobility	newsletter	FHWA,(HEP-20), 400 7 th Street, S.W. Washington, D.C. 20590 FAX:(202)366-3713 (also see AASHTO Newsletter, ITE Journal)*
Congestion Management System Application Testing	research in progress	TRANSIMS micro-simulation data as a source for performance measures	document	FHWA,(HEP-20), 400 7 th Street, S.W. Washington, D.C. 20590 FAX:(202)366-3713

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A. Congestion Management, Mobility, and System Operation

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<u>TITLE</u>	<u>DATE</u>	<u>RELEVANCE</u>	<u>MEDIA</u>	<u>SOURCE</u>
Congestion Management System Application Testing	research in progress	develop methods, hardware, & software to coordinate data collection by Automated Traffic Control System	document	FHWA,(HEP-20), 400 7 th Street, S.W. Washington, D.C. 20590 FAX:(202)366-3713
Congestion Management System Case Study of the Washington Region, Task 1 Report: Activities to Date	1995	regional data management	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*
Congestion Management System CD-ROM	in progress, available in 1997	interactive communications of CMS topics	CD-ROM	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*
Congestion Management System Development Program for the Puget Sound Region: Final Mid-Term Report	1995	case-study experience in data monitoring for ITS; data management; integrating CMS w/planning	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*
Corporate Amenities, Trip Chaining and Transportation Demand Management	1994	TDM, VMT reduction	document	FTA Office of Planning(TPL-21), 400 7 th St., SW, Washington, D.C. 20590
Data Analysis and Policy Implementation for TDM Strategies	1997	assesses relation between household activity and travel behavior; influence of TCMs on policy measures	document	FHWA, HEP-20, 400 7 th Street, S. W. Washington, D.C. 20590 FAX:(202)366-3713*
Design and Application of Travel Demand Management (TDM) Techniques, Including Telecommuting, [NHI Course #13369]	current	data and information needed to plan, design, implement, operate, and evaluate TDM projects	training course	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363; or FHWA National Highway Institute, 901 N. Stuart St. Suite 300, Arlington VA 22203 (703)235-0521; technical information: Wayne Burman (202) 366-4069

* For more details on this reference, or a more extensive list of transportation planning, environmental, or ITS resources, see Section E-1 of this guide.

A. Congestion Management, Mobility, and System Operation

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<u>TITLE</u>	<u>DATE</u>	<u>RELEVANCE</u>	<u>MEDIA</u>	<u>SOURCE</u>
Developing An Effective Congestion Management System, Report 1: Dallas/Ft. Worth, TX, Case Study	1995	distribution of CMS information to decision-makers	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*
Developing Effective Congestion Management Systems: Four Case Studies [DOT-T-96-06]	Nov 1995	examples of early CMS, data needs	document	USDOT Tech. Share Pgm., Subsequent Dist. Ctr., Ardmore East Business Ctr.,3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in Section E)
Development of Human Factors Guidelines for Advanced Traveler Information Systems and Commercial Vehicle Operations: ATIS and CVO Development Objectives and Performance Requirements [FHWA-RD-95-109]	Sep. 1995	survey of current ATIS & CVO systems, and summary of performance requirements identified by the transportation community	document	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363*
Effects of Land Use and TDM Strategies on Commuting Behavior [DOT-T-94-21]	1995	impact of urban design characteristics on SOV usage	document	USDOT Tech. Share Pgm., Subsequent Dist. Ctr., Ardmore East Business Ctr.,3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in Section E)
Estimation of Operating & Maintenance Costs for Transit Systems [DOT-T-93-21]	Dec 1992	includes data base of O&M costs for bus & rail	document	USDOT Tech. Share Pgm., Subsequent Dist. Ctr., Ardmore East Business Ctr.,3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in Section E)
Feasibility of Traffic Data Collection Using Satellite Imagery	April, 1995	feasibility study	document	FHWA (HPM-30), 400 7 th Street, S.W. Washington, D.C. 20590
Field Test of Monitoring of Urban Vehicle Operations Using Non-Intrusive Technologies	Various	11 volumes describing traffic monitoring devices	documents	FHWA(HPM-30), 400 7 th Street, S.W. Washington, D.C. 20590
GIS Applications for CMS	Spring 1997	resource identification, database development	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*

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A. Congestion Management, Mobility, and System Operation

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<u>TITLE</u>	<u>DATE</u>	<u>RELEVANCE</u>	<u>MEDIA</u>	<u>SOURCE</u>
GPS Demonstration for Travel Time Data Collection	in progress	application of GPS technology to collect travel time data	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*
Guidelines on the Use and Operation of Changeable Message Signs [TTI: 2-18-90/4-1232]	Nov. 1992	primer on characteristics affecting design, use, operation of changeable message signs (prepared for TXDOT)	document	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363*
High Occupancy Vehicle (HOV) Lane Marketing Manual [DOT-T-95-04]	Sep 1994	how to develop support for HOV lanes; market research; preparation of marketing materials; media relations	manual	USDOT Tech. Share Pgm., Subsequent Dist. Ctr., Ardmore East Business Ctr.,3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in Section E)
Implementing Effective Travel Demand Management Measures: Inventory of Measures and Synthesis of Experience [DOT-T-94-02]	Sep. 1993		document	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363*
Improved Vehicle Occupancy Data Collection	in progress	case studies of monitoring multimodal vehicle occupancy	document	FHWA, HPM-30, 400 7 th Street, S.W. Washington, D.C. 20590
Intelligent Transportation Infrastructure Benefits: Expected and Experienced [FHWA-JPO-96-008]	Jan. 1996	results from early ITS projects, supported by traffic detection and monitoring, communications, and control systems	document	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363*

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A. Congestion Management, Mobility, and System Operation

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TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Intelligent Transportation System (ITS) Planning & Functional Requirements — An Overview [NHI Course # 13373]	current	surveillance, information management, communications	training course	FHWA National Highway Institute, 901 N. Stuart St. Suite 300, Arlington VA 22203 (703)235-0521; Technical information: Larry Darnes (202) 366-2300
Intelligent Transportation System (ITS) Projects	Jan., 1996	projects, tests, and studies completed, or expected to be completed by Jan. 1996	document	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363*
Intelligent Transportation Systems, Assessment of ITS Deployment: Review of Metropolitan Areas, Discussions of Crosscutting Issues	Jul., 1996	characteristics of ITS deployment, based on interviews in 7 MPOs	document	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363*
Intelligent Vehicle Highway Systems Mobile Communications Guidelines [WP-93-WO363]	Sep. 1993	guidance on mobile communications technologies applicable to IVHS	document	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363*
Intelligent Vehicle Highway System (IVHS) Planning and Functional Requirements—An Overview [NHI Course #13373]	in development	consideration of ITS user services; includes surveillance, information management, communications	training course	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363; technical information: Larry Darnes (202)366-2300
ITS at a glance	produced quarterly	covers major ITS developments within USDOT	newsletter	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363
Measuring and Monitoring Congestion: Three Case Studies	1996	case-studies in data collection to support CMS	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590 FAX:(202)366-3713*
Non-Federal Applications of the Highway Performance Monitoring System	1995	case studies on applying HPMS analytical process	document	FHWA(HEP-10), 400 7 th St. SW, Washington, D.C. 20590, FAX: (202)493-2478

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A. Congestion Management, Mobility, and System Operation

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TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Operational Design Guidelines for High Occupancy Vehicle Lanes on Arterial Roadways [DOT-T-95-14]	Nov. 1994	guidance for planning, design & operation of HOV lanes in Ontario, Canada	document	USDOT Tech. Share Pgm., Subsequent Dist. Ctr., Ardmore East Business Ctr.,3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in Section E)*
Research Program Plan: Research Needs and Recommendations for CMS, TRB Conference	in planning for 1997	research program to support CM; performance-based planing	proceedings	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*
Review and assessment of En-Route transit Information Systems [DOT-T-96-03]	Jul 1995	state-of-the-art of en-route information systems; examples	document	USDOT Tech. Share Pgm., Subsequent Dist. Ctr., Ardmore East Business Ctr.,3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in Section E)
Review of and Preliminary Guidelines for Integrating Transit Into Transit Management Centers [DOT-T-94-25]	Jul. 1994	IVHS technologies for dissemination of transit & traffic information to public	document	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363*
Synthesis of Congestion Management Planning and Program Development	Spring 1997	data needs and performance measures in synthesis of CM planning	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*
Transit Rideshare Initiative	1995	indicators of ridership increases in 27 transit systems	document	TCRP, TRB, 2101 Constitution Ave., NW, Washington, D.C. 20418 (202)334-3214(see also TRB Web site in Section E)
Travel Time Data Collection Field Tests--Lessons Learned	Feb. 7, 1996	tests of 6 data collection methods	document	FHWA(HPM-30), 400 7 th Street, S.W. Washington, D.C. 20590
Travel Time Data Collection Source Book	1997	guidance for travel time data collection as system performance measure & model calibration	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*

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A. Congestion Management, Mobility, and System Operation

TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Travel Time Data Collection Using GPS Technologies	1996	GPS applications in travel time and speed data collection	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*
Urban Traffic Monitoring Scan	in progress	survey how traffic monitoring programs are operating in urban areas	report	FHWA(HPM-30), 400 7 th Street, S.W. Washington, D.C. 20590
Use of Data From Continuous Monitoring Sites	Oct. 26, 1994	study findings and recommendations for states on traffic monitoring data processing	document	FHWA(HPM-30), 400 7 th Street, S.W. Washington, D.C. 20590
1994 National Traffic Data Acquisition Conference Proceedings	Jan. 1995	papers & abstracts related to traffic monitoring activity	report	FHWA(HPM-30), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0175; FAX: (202)366-7742
1996 National Traffic Data Acquisition Conference Proceedings	May 1996	papers & abstracts related to traffic monitoring activity	report or CD-ROM	FHWA(HPM-30), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0175; FAX: (202)366-7742

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B. Transportation and Land Use Planning and Policy

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TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Activity-Based travel Demand Forecasting [DOT-T-96-02]	1996	assess travel forecasting based on a stated preference survey	document	USDOT Tech. Share Pgm., Subsequent Dist. Ctr., Ardmore East Business Ctr., 3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in Section E)
Census Mapbook for Transportation Planning [FHWA-PL-94-035]	Dec 1994	innovative applications of census data	document	National Technical Information Service, 5285 Port Royal Road, Springfield, VA, 22161 (see also Web site in Section E)
Census Transportation Planning Package (CTPP) Urban Element Technical Assistance	current	census data; hands-on instruction with local CTPP urban element	workshop	Whit Blanton, JHK & Asso. (407)422-8813
CTPP Handbook: An Instructional Guide to the 1990 Census transportation Planning Package [FHWA-PD-95-019]	1995	instructional guide to application of 1990 CTPP	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*
Decennial Census Data for Transportation Planning, Irvine, CA, March 13-16, 1994. [Conference Proceedings 4]	1995	census data applications and policy issues in transportation planning	proceedings	TRB Business Office, National Research Council, 2101 Constitution Ave, N.W., Washington, D.C. 20418 (202)334-3214
Decennial Census Data For Transportation Planning: Case Studies and Strategies for 2000, TRB Conference, Irvine, CA, April 28- May 1, 1996	in prep.	case studies & issues related to availability & use of census data and journey-to-work data	proceedings	TRB, National Research Council, 2101 Constitution Ave, N.W., Washington, D.C. 20418 (202)334-2907
Fifth National Conference on Transportation Planning Methods Applications	Apr 1995	papers & abstracts, some on data issues	proceedings	Washington State DOT, Transportation Bldg., Olympia, WA 98504
Fourth National Conference on Transportation Planning Methods Applications	May 1993	papers and abstracts; includes session on data collection, analysis and applications	proceedings	

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B. Transportation and Land Use Planning and Policy

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<u>TITLE</u>	<u>DATE</u>	<u>RELEVANCE</u>	<u>MEDIA</u>	<u>SOURCE</u>
Identification of Transportation Planning Data Requirements in Federal Legislation [DOT-T-94-21]	1994	data needs in the context of ISTEA & CAAA '90	document	USDOT Tech. Share Pgm., Subsequent Dist. Ctr., Ardmore East Business Ctr., 3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in Section E)
Improved Decision Support — Computer-Aided Technologies and Tools Used in Decisionmaking, Training, and Presentation	in progress	existing practice & opportunities for applying new communications technology in planning	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713 (see also Web Site in Section E)*
Introduction to Urban Travel Demand Forecasting [NHI Course #15254]	current	traditional 4-step process; data needed for demand models	training course	FHWA National Highway Institute, 901 N. Stuart St. Suite 300, Arlington VA 22203 (703)235-0521; technical information: Michael Culp (202) 366-9229
Journey to Work Trends in the United States and its Major Metropolitan Areas 1960-1990 [FHWA-PL-94-012]	Jan. 1994	Census J-T-W information	document	FHWA(HPM-40), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0160 FAX: (202)366-7742
NCHRP 8-32(5) -- "Multimodal Transportation Planning Data"	study completed, not yet published	guidelines on availability & use of data to support statewide & metropolitan transportation planning	report	TRB, National Research Council, 2101 Constitution Ave, N.W., Washington, D.C. 20418 (202)334-1892
NCHRP 8-32(2) — "Performance-Based Planning"	1 st phase comp., begin next phase Spring '97	guide on perf.-based planing, use of perf. meas., existing data sources, next-generation data sources, guidance on selection of measures	report	TRB, National Research Council, 2101 Constitution Ave, N.W., Washington, D.C. 20418 (202)334-1892

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B. Transportation and Land Use Planning and Policy

<u>TITLE</u>	<u>DATE</u>	<u>RELEVANCE</u>	<u>MEDIA</u>	<u>SOURCE</u>
NCHRP Workshop to identify a multi year research agenda for consideration under the NCHRP, Irvine, CA, November 1-3, 1993				recommendations being implemented under NCHRP 8-32 (e.g., see NCHRP 8-32(5))
SAS Code for CTPP Urban & Statewide Elements	Jun. 1996	provides code for extracting data from the 1990 CTPP	diskette	FHWA(HPM-40), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0160 FAX: (202)366-7742
Statewide Transportation Planning Procedures [NHI Course #15127]	current	data needs and collection procedures, management systems data, traffic classification, weights, information systems	training course	FHWA National Highway Institute, 901 N. Stuart St. Suite 300, Arlington VA 22203 (703)235-0521; technical information: Dee Span (202) 366-0233
Third Travel Model Improvement Program Conference, San Diego, CA, December 8-11, 1996.	proceedings in pep.	update on data research under TMIP	conference proceedings	TMIP Report Request, FHWA(HEP-20), 400 7 th St. SW, Washington, DC 20590, FAX: (202)366-3713*
Transit Access Network Coding Guide	underway-- est. 1997	best methods to represent access to transit; procedures	manual	TMIP Report Request, FHWA(HEP-20), 400 7 th St. SW, Washington, DC 20590, FAX: (202)366-3713*
Transportation Data Needs: Programs for a New Era-- Implications for State DOTs and MPOs, Irvine, CA, May 1992 [Transportation Research Circular No. 407]	April 1993	discussions of data needs under ISTEA'91 & CAAA'90	conference proceedings	TRB Business Office, National Research Council, 2101 Constitution Ave., N.W., Washington, D.C. 20418; (202)334-3214
Transportation Planner's Handbook on Conversion Factors for the Use of Census Data	1996	how to convert census journey-to-work information to conventional travel data	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*
Transportation Planning Uses of Commercial Data [SBIR Research Project]	beginning	application of non-traditional data sources in transportation planning	document	FHWA(HEP-20) 400 7 th St. SW, Washington, D.C. 20590; FAX:(202)366-3713*

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B. Transportation and Land Use Planning and Policy

TITLE DATE RELEVANCE MEDIA SOURCE

Travel Model Improvement Program Workshop, Fort Worth, TX, August 14-17, 1994 [DOT-T-95-13]	Apr. 1995	reports on travel model improvement progress; data	proceedings	USDOT Tech. Share Pgm., Subsequent Dist. Cir., Ardmore East Business Ctr., 3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in this Section)
Travel Needs and Behavior of Zero Car Households beginning-expected 1997		travel characteristics of carless households; methods of forecasting	document	TMIP Report Request, FHWA(HEP-20), 400 7 th St. SW, Washington, DC 20590, FAX: (202)366-3713*
1990 Nationwide Personal Transportation Survey Data Book, Vol. I&II [FHWA-PL-94-010A&B]	Apr. 1994	summary statistics and data on the nature & characteristics of 1990 national personal travel	documents	FHWA(HPM-40), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0160 FAX: (202)366-7742 (see also Office Of Hwy. Information Management Web Site)
1990 Nationwide Personal transportation Survey — Series of Reports: Summary of Travel Trends [FHWA-PL-92-027] Mar 1992	Mar 1992	products of the 1990 NPTS; travel in the U.S. as related to the demographics of persons and households	documents	FHWA(HPM-40), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0160 FAX: (202)366-7742
Emerging Travel Trends [FHWA-PL-94-028] Jul. 1994	Jul. 1994			
Urban Travel Patterns [FHWA-PL-94-018] Aug. 1994	Aug. 1994			
Demographic Special Report [FHWA-PL-95-032] Feb. 1995	Feb. 1995			
Travel Mode Special Report [FHWA-PL-94-019] Apr. 1995	Apr. 1995			
Special Report on Trip Vehicle Attributes [FHWA-PL-95-033] Feb. 1995	Feb. 1995			

* For more details on this reference, or a more extensive list of transportation planning, environmental, or ITS resources, see Section E-1 of this guide.

C. Transportation Impacts and Evaluation

TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Clean Air Briefs	1995	public information on conformity, TCMs, highway sanctions, etc.	papers	NARC, 1700 K St. NW, Suite 1300, Washington, D.C. 20006 (202)457-0710
Comparing Multimodal Alternatives in Major travel Corridors, [in: TRR #1429]	1994	method to compare across modes using data from travel demand models in a corridor study	journal	TRB, 2101 Constitution Ave, NW, Washington, DC 20418 (202)334-3214 (see also TRB Web site in Section E)
Computer-Aided Tools and Technologies Used In Decision-Making and Presentation	1996	MPO case studies of opportunities to better support decision-making with advanced information technologies	document	FHWA(HEP-20), 400 7 th St. SW, Washington, DC 20590, FAX: (202)366-3713*
Cost and Effectiveness of Transportation Control Measures (TCMs): A Review and Analysis of the Literature	1994	experience with emission-reduction potential of TCMs	document	FHWA(HEP-40) 400 7 th St. SW, Washington, DC, 20590 (202)366-6724; FAX: (202) 366-3409*
Data Aggregation Issues in the Application of the MOBILE Emissions Model	1994	spatial & temporal data aggregation and collection considerations in emissions analysis	paper	FHWA(HEP-40) 400 7 th St. SW, Washington, DC, 20590 (202)366-6724; FAX: (202) 366-3409*
Development of GIS Procedures for Impact Analysis of Transportation Alternatives	1997	impact analysis using GIS	document	FHWA(HEP-20), 400 7 th St. SW, Washington, DC 20590, FAX: (202)366-3713*
Estimating the Impacts of Urban Transportation Alternatives [NHI Course#15257]	current	how to develop information to compare alternative multi-modal and demand management strategies	training course	FHWA National Highway Institute, 901 N. Stuart St. Suite 300, Arlington VA 22203 (703)235-0521; technical information: Patrick DeCorla-Souza (202) 366-4076

* For more details on this reference, or a more extensive list of transportation planning, environmental, or ITS resources, see Section E-1 of this guide.

C. Transportation Impacts and Evaluation

TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Highway Project Traffic Forecasting [NHI Course #15251]	current	data provided by system planning for project analysis	training course	FHWA National Highway Institute, 901 N. Stuart St. Suite 300, Arlington VA 22203 (703)235-0521; technical information: Douglas Laird (202) 366-5972
Integrating Environmental Considerations Into Transportation planning	1994	transportation planning-project development process linkages	conference proceedings	FHWA(HEP-30) 400 7 th St. SW, Washington, DC, 20590 (202)366-4836*
Major Investment Studies [NTI Course #9401]	current	overview of procedural & technical requirements of major investment studies	training course	National Transit Institute, Rutgers, the State University, 120 Albany St., Suite 705, New Brunswick, NJ 08901; (908) 932-1700 X50; technical information: Sheldon Edner (202) 366-4066
Major Investment Studies in Transportation	1996	MIS process, planning context, institutional issues, and decisionmaking	conference proceedings	TRB, 2101 Constitution Ave, NW, Washington, DC 20418 (202)334-3214 (see also TRB Web site in Section E)
A Manual of Regional Transportation Modeling Practice for Air Quality Analysis	July 1993	guidance on transportation modeling for air quality analysis	manual	FHWA(HEP-40) 400 7 th St. SW, Washington, DC, 20590 (202)366-6724; FAX: (202) 366-3409*
Multimodal Strategies: Development of Benefit-Cost Analysis Procedures	1994	applying B/C methods to evaluating transportation projects	document	FHWA(HEP-20), 400 7 th St. SW, Washington, DC 20590, FAX: (202)366-3713*
Project Development and Environmental Documentation [NHI Course #14205]	current	highway & transit project development process; information needed for environmental documents	training course	FHWA National Highway Institute, 901 N. Stuart St. Suite 300, Arlington VA 22203 (703)235-0521; technical information: Leland Dong (202) 366-2054

* For more details on this reference, or a more extensive list of transportation planning, environmental, or ITS resources, see Section E-1 of this guide.

C. Transportation Impacts and Evaluation

TITLE	DATE	RELEVANCE	MEDIA	SOURCE
State-of-the-Practice Report on Mobile Source Emissions, Interim Report	1994	input and output data of various emissions modeling systems	document	National Technical Information Service, 5285 Port Royal Road, Springfield, VA, 22161 (see also Web site in Section E)
Workshop on Transportation & Air Quality Analysis [NHI Course#15265]	current	how to develop travel-related data for mobile-source emissions analysis; analyzing & measuring impacts; forecasting & tracking VMT	training course	FHWA National Highway Institute, 901 N. Stuart St. Suite 300, Arlington VA 22203 (703)235-0521; technical information: Jerry Everett (202) 366-4079

* For more details on this reference, or a more extensive list of transportation planning, environmental, or ITS resources, see Section E-1 of this guide.

D. Freight, Goods Movement, and Intermodal Facilities

D-1

TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Airport Access Planning Guide	1996	planning ground access to airports; includes data collection & surveys	document	FHWA(HEP-10), 400 7 th St. SW, Washington, D.C. 20590 FAX: (202) 366-7660
Analysis of Freight Movements in the Puget Sound Region	Oct 1994	identifies data needed for freight planning and tracking freight movements	document	BTS National Transportation Library (see Web site in Section E)
Analysis of Truck Flows and Loads	May 1994	analysis of classification & weight data & their application to state pavement design	reports	FHWA(HPM-30), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0175; FAX: (202)366-7742
Characteristics of Urban Freight Systems (CUFS) [DOT-T-96-22]	Nov. 1996	database of characteristics of freight transportation systems reported in literature or collected by planning agencies	document	FHWA(HEP-10), 400 7 th St. SW, Washington, D.C. 20590 DOT Tech. Share Pgm., Subsequent Dist. Ctr., Ardmore East Business Ctr.,3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in Section E)
Comprehensive Intermodal Visual Database [SBIR Project]	in progress	collection of current freight, commodity, intermodal facility, and project data	CD-ROM, multi-media	FHWA(HEP-10), 400 7 th St. SW, Washington, D.C. 20590 FAX: (202) 366-7660
Development of Notebook Computer Software to Collect trip Generation at Intermodal Passenger and Freight Facilities	in progress	software to run on notebook or hand-held computers to collect data at intermodal facilities	software	FHWA(HEP-10), 400 7 th St. SW, Washington, D.C. 20590 FAX: (202) 366-7660
Landside Access for Intermodal Facilities [NHI Course #15264]	current	data needed to design access to intermodal facilities	training course	FHWA National Highway Institute, 901 N. Stuart St. Suite 300, Arlington VA 22203 (703)235-0521; technical information: Lee Chimini (202) 366-4068

D. Freight, Goods Movement, and Intermodal Facilities

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TITLE	DATE	RELEVANCE	MEDIA	SOURCE
MPO Freight Studies: Where, When, What and How — results of a National Survey	Oct. 1996	compendium of study descriptions with contacts	electronic (Excel file format)	BTS Bulletin Board @ http://www.bts.gov/news/brief.html
Planning and Managing Intermodal transportation Systems: A Guide to ISTEA requirements [DOT-T-95-03]	Nov. 1994	emphasis on data sources and databases for IMS; focus on freight; extensive references	document	Technology Sharing Program, USDOT, (M-45.3) 400 7 th St. S.W., Washington, DC 20590
Urban Goods and Freight Forecasting Conference, Albuquerque, NM, Sep 17-19, 1996	in preparation	discussions & presentations on freight data & modeling, recommendations on research	proceedings	FHWA(HEP-10), 400 7 th St. SW, Washington, D.C. 20590 FAX: (202) 366-7660
The Use of Intermodal Performance Measures by State Departments of Transportation [DOT-T-96-18]	Jun 1996	role of performance measures in trans. planning; includes measures used by 15 DOTs	document	DOT Tech. Share Pgm., Subsequent Dist. Ctr., Ardmore East Business Ctr., 3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in Section E)

E. Other Source Documents; Web Sites; GIS & Information Systems; Data Collection & Surveys

E-1

TITLE	DATE	RELEVANCE	MEDIA	SOURCE
1) Other Source Documents & Catalogs				
Intelligent Transportation Infrastructure, Initial Toolbox List, USDOT, March 1996	updated 3/14/96	abstracts and listings of ITI information	reference list	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363
Intelligent Transportation Systems Publications, FHWA, FTA, FRA, & NHTSA	Nov. 18, 1996	abstracts of ITS publications, many are available on FTA's or JPOs home page (see below)	list	USDOT Joint Program Office for ITS (HVH-1) FHWA, 400 7 th St. S.W., Washington, D.C. 20590 (202) 366-6363
Intermodal Technical Assistance for Transportation Planners and Policymakers	Dec 1994	information on intermodal technical assistance	catalog	DOT Tech. Share Pgm., Subsequent Dist. Ctr., Ardmore East Business Ctr., 3341 Q 75 th Ave Landover, MD 20785 (see also Web Site in this Section)
Planning and Environmental Resources Catalog, FHWA & FTA	Sep 1996	most comprehensive resource for USDOT-sponsored planning and environment outreach	catalog	FHWA(HEP-20), 400 7 th St. SW, Washington, DC 20590, FAX: (202)366-3713
Planning and Environmental Training Catalogue, FHWA & FTA	Apr 1995	list of transportation planning & environmental training available; how to sponsor or apply for a course	catalog	FTA, Office of Planning(TPL-22), 400 7 th St. S.W., Washington, D.C. 20590; (202) 366-0096
2) Internet Web Sites				
Bureau of Transportation Statistics Home Page	current		Internet— WWW	http://www.bts.gov/
Bureau of Transportation Statistics National Transportation Library	current		Internet— WWW	http://www.bts.gov/smart/links/data/ntllib.html

E. Other Source Documents; Web Sites; GIS & Information Systems; Data Collection & Surveys

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TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Bureau of Transportation Statistics Geographic Information Services	current	GIS-T links; reference library; news group	Internet— WWW	http://www.bts.gov/gis/
Computer-Based Tools and Technologies for Transportation Planning	current	online guide to information technologies and tools for transportation planning	Internet— WWW	http://www.yerkes.mit.edu/NARC/home.html
FHWA, Office of Highway Information Management	current	reports & publications; links to related web sites	Internet— WWW	http://cti1.volpe.dot.gov/ohim/
Information Needs to Support State and Local Transportation Decisionmaking Into the 21 st Century -- TRB Conference March 1-5, 1997	current	on-line discussion page for input on issues related to conference	Internet— WWW	http://www.bts.gov/dataneeds/
ITE Home Page	current		Internet— WWW	http://www.ite.org/
National Technical Information Service	current	available DOT documents that have been placed in NTIS	Internet— WWW	http://www.fedworld.gov/ntis/ordering.htm
Statewide Planning Home Page	current		Internet— WWW	http://byways.org/fhwa
TMIP Home Page--"Clearinghouse Section"	current	1000 abstracts and 33 full-text documents; see especially "Surveys & Data"	Internet— WWW	http://tmip.tamu.edu
TRB Committee on Urban Transportation Data & Information Systems (A1D08)	current	up-to-date committee business and happenings; over 40 good links to other data web sites	Internet— WWW	http://www.mtc.dst.ca.us/trb/urban/
TRB Home Page	current		Internet— WWW	http://www.nas.edu/trb/

TITLE	DATE	RELEVANCE	MEDIA	SOURCE
TRB Task Force on GIS-T	current	Task Force happenings; good links to GIS-T Web sites	Internet— WWW	http://www.bts.gov/gis/trb/
URISA - Urban and Regional Information Systems Association	current	URISA happenings + links to data sources	Internet— WWW	http://www.urisa.org
USDOT Joint Program Office for ITS	current	ITS publications & reports	Internet— WWW	http://www.its.dot.gov/reading/pubs.html
USDOT Technology Sharing Program	current	browse and order DOT documents published by the TSP	Internet— WWW	http://www.tsp.dot.gov
Urban Transportation Planning Data on the World Wide Web — TRB Committee A1D08 Chair's special Report	Jan. 1997	transportation information & resources; MPOs & regional councils; Internet addresses	Internet— WWW	http://home.earthlink.net/~clpurvis/ (Temporary address)

3) GIS and Information Systems

Application of Geographic Information System for Transportation [NHI Course #15129]	new course, est. Spring 1997	how-to guidance for developing and implementing a GIS	training course	FHWA National Highway Institute, 901 N. Stuart St. Suite 300, Arlington VA 22203 (703)235-0521; technical information: Roger Petzold (202) 366-4074; FAX: (202) 493-2198
Case Studies of Transportation Agencies' Implementation of ITIS	in preparation	case studies of information technology application in MPOs, State DOTs, & transit operators	paper	FHWA(HEP-10), 400 7 th St. SW, Washington, D.C. 20590 (202)366-4074; FAX: (202) 493-2198
Development of Integrated Transportation Information System (ITIS): Practitioners Handbook	Spring 1997	using information technology better to support transportation planning	document	FHWA(HEP-10), 400 7 th St. SW, Washington, D.C. 20590 (202)366-4074; FAX: (202) 493-2198

E. Other Source Documents; Web Sites; GIS & Information Systems; Data Collection & Surveys

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TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Geographic Information System for Transportation Symposium, Proceedings 1995 & 1996	1995 & 1996	GIS-related data issues	proceedings	FHWA(HEP-10), 400 7 th St. SW, Washington, D.C. 20590 (202)366-4074; FAX: (202) 493-2198
Integrating Transportation Information, [Demonstration Project 113]	Spring 1997	importance of information to transportation	demonstration & course notebook	FHWA(HEP-10), 400 7 th St. SW, Washington, D.C. 20590 (202)366-4074; FAX: (202) 493-2198
Integrating Transportation Information Systems: A Manager's Handbook	1995	manager's guide to new information technologies	document	FHWA(HEP-10), 400 7 th St. SW, Washington, D.C. 20590 (202)366-4074; FAX: (202) 493-2198
<u>4) Data Collection and Surveys</u>				
1996 Bay Area Travel Survey: Reducing Non-Response	estimated June 1997	test impact of incentives on response rates	report	FHWA(HPM-40), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0160
Accuracy of Traffic Monitoring	Jun. 1996	evaluation results of vehicle classification equipment testing by GA DOT	report	FHWA(HPM-30), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0175; FAX: (202)366-7742
Activity Survey Analysis	research starting	analysis of activity-based data from several surveys	report	TMIP Report Request, FHWA(HEP-20), 400 7 th St. SW, Washington, DC 20590, FAX: (202)366-3713*
Analysis of Longitudinal Data from the Puget Sound Transportation Panel	project complete	4 years of data from panel; establish weights; inventory of data analyses and uses; mode use and transitions; examines activity and time use transitions	CD-ROM	FHWA(HPM-40), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0160

* For more details on this reference, or a more extensive list of transportation planning, environmental, or ITS resources, see Section E-1 of this guide.

E. Other Source Documents; Web Sites; GIS & Information Systems; Data Collection & Surveys

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TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Data Collection in the Portland, Oregon Metropolitan Area	Apr. 1996	case-study of exemplary data collection program	document	TMIP Report Request, FHWA(HEP-20), 400 7 th St. SW, Washington, DC 20590, FAX: (202)366-3713*
GPS for Household Travel Surveys	underway, report est. Mar 1997	specifications for user-friendly, mailable unit for tracking personal vehicle travel; compare results to traditional self-reported travel using a diary; compare trip length; speed	report	FHWA(HPM-40), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0160
Household Travel Surveys: New Concepts and Research Needs, TRB Conference, Irvine, CA, March 12-15, 1995 [Conference Proceedings 10]	1996	definitive research statements; resource papers	proceedings	TRB Business Office, National Research Council, 2101 Constitution Ave., N.W., Washington, D.C. 20418; (202)334-3214
Land Use and Travel Survey Data: A Survey of the Metropolitan Planning Organizations of the 35 Largest U.S. Metropolitan Areas, Working Paper 656,	Feb. 1996.	travel surveys and nature & quality of land use data for metropolitan areas	report	by Porter, Chris; Melendy, Laura; and Deakin, Elizabeth, University of California at Berkeley,
Methodology for Nonwork Travel Analysis in Suburban Communities, Final Report	1994	data collection methods; HH travel survey data used to study non-work travel	document	TMIP Clearing House on Internet for abstract & source information (see Web Site in this Section)
NCHRP 20-5 Synthesis — "Methods for Household Travel Surveys"	in progress	state-of-practice methods to plan, design, conduct, & evaluate household survey data	report	TRB, National Research Council, 2101 Constitution Ave, N.W., Washington, D.C. 20418 (202)334-2379
NCHRP 20-5 Synthesis — "Status and Application of GPS for Surveys & Other Positioning Needs and State DOTs	in progress	what is GPS; how to apply in transportation, engineering and data collection	report	TRB, National Research Council, 2101 Constitution Ave, N.W., Washington, D.C. 20418 (202)334-2379

* For more details on this reference, or a more extensive list of transportation planning, environmental, or ITS resources, see Section E-1 of this guide.

E. Other Source Documents; Web Sites; GIS & Information Systems; Data Collection & Surveys

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TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Scan of Recent Data Research	Jan. 1997	listings of data-related research underway	report	TMIP Report Request, FHWA(HEP-20), 400 7 th St. SW, Washington, DC 20590, FAX: (202)366-3713*
Scan of Recent Travel Surveys	May 1996	information on over 50 recent travel surveys by MPOs & states	document	TMIP Report Request, FHWA(HEP-20), 400 7 th St. SW, Washington, DC 20590, FAX: (202)366-3713*
Synthesis Projects on Non-Response and Panel Surveys	draft reports	reporting non-response, and methods to reduce non-response in HH travel surveys; primer on panel (longitudinal) surveys and how they can be used in transportation research.	documents	FHWA(HPM-40), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0160
Testing Household Travel/Activity Survey Methods	project completed	tests on pre-test of NCTCOG HH survey: (1)telephone vs. mail-back retrieval and (2)booklet vs. single sheet diary format; response rates, respondent burden, trip reporting rates.	Travel Demand Forecasting CD-ROM	FHWA(HPM-40), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0160
Traffic Monitoring Guide	Oct. 1996	how-to for traffic volume, vehicle classification, and truck weight data collection	report	FHWA(HPM-30), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0175; FAX: (202)366-7742
Travel Survey And Data Collection [NHI Course #15134]	under devel. for early 1997	based on new travel survey manual	training course	FHWA National Highway Institute, 901 N. Stuart St. Suite 300, Arlington VA 22203 (703)235-0521; technical information: Jerry Everett (202) 366-4079

* For more details on this reference, or a more extensive list of transportation planning, environmental, or ITS resources, see Section E-1 of this guide.

E. Other Source Documents; Web Sites; GIS & Information Systems; Data Collection & Surveys

E-7

TITLE	DATE	RELEVANCE	MEDIA	SOURCE
Travel Survey Manual & Appendices [FHWA-PL-96-029 & FHWA-PL-96-030]	Jul 1996	how-to on 8 kinds of surveys	manual	TMIP Report Request, FHWA(HEP-20), 400 7 th St. SW, Washington, DC 20590, FAX: (202)366-3713*
Vehicle Occupancy	Sep. 1995	comparison of results from survey (NPTS) & roadside observation (NHTSA seatbelt usage)	report	FHWA(HPM-30), 400 7 th Street, S.W. Washington, D.C. 20590; (202)366-0175; FAX: (202)366-7742

* For more details on this reference, or a more extensive list of transportation planning, environmental, or ITS resources, see Section E-1 of this guide.