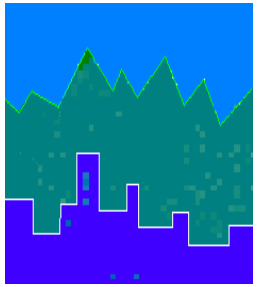
National Household Travel Survey Add On Workshop



August 12, 2009

Start time: 2:30 to 4:00 ET

Teleconference number to Access Audio Portion

888-677-5635

Code: 89342

Thank you!

A few webinar protocols:

Please mute your phone and

Type questions into ‘chat’ box

AND

We appreciate your feedback!

Please Mute your phones…

NHTS Team Members:

Team Leader: Heather Contrino
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Greetings from Tianjia Tang

The Federal Highway Administration
congratulates
all the agencies and organizations
on
your wise investments
with
the NHTS program.

FHWA Office of Highway Policy Information

David Winter, PE

Highway Funding and Motor Fuel
Ralph Erickson

Highway System Performance

Ralph Gillmann

Travel Monitoring and Surveys
Tianjia Tang, PE., Ph.D.,

Travel Monitoring:
Acting Technical Leader: Ron Erickson
Harshad Desai – TMG, Speed
David Jones – WIM, TMG
Ron Erickson – MTAS, Data Integration
Steven Jessberger – TMAS, TVT
Vacant – data analyst
Vacant – Technical leader

Travel Surveys:
Technical Leader: Heather Contrino
Yuki Nakamoto
Nancy McGuckin
Adella Santos

Re-Authorization – Data Program

US. House of Representative:

- Transportation and Infrastructure Committee - James Oberstar (D-MN)
- Ways and Means Committee Charles B. Rangel (D-NY)

Re-Authorization – Data Program

US. Senate:

- Environment and Public Works Committee (Barbara Boxer, D-CA)
- Banking, Housing and Urban Affairs Committee (Christopher J. Dodd, D-CT)
- Commerce, Science and Transportation Committee (Jay Rockefeller, D-WV)

The Surface Transportation Authorization Act of 2009
"A Blueprint for Investment and Reform"

Silent on Data Program

On Behalf

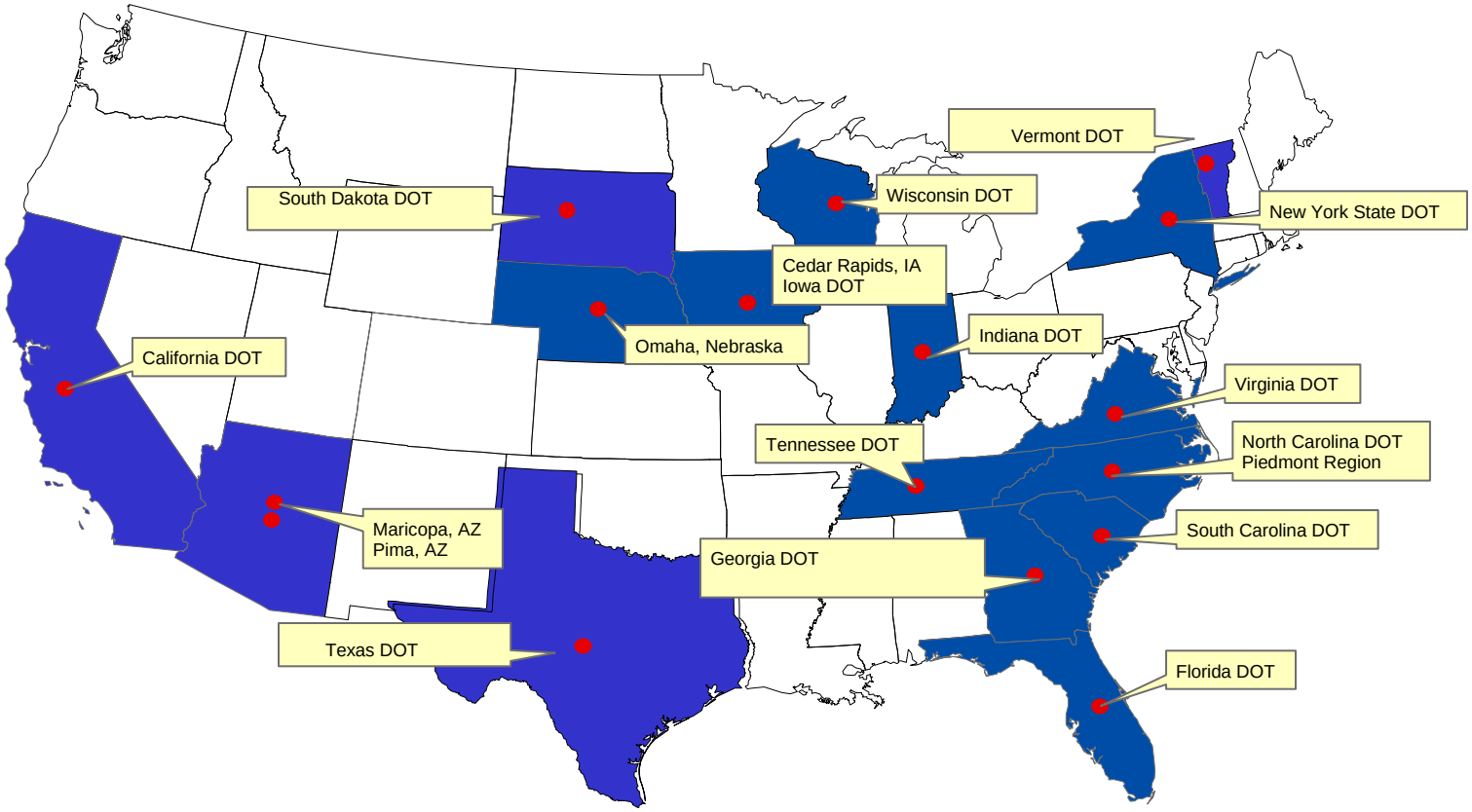
of

The Office of Highway Policy Information

THANK YOU!

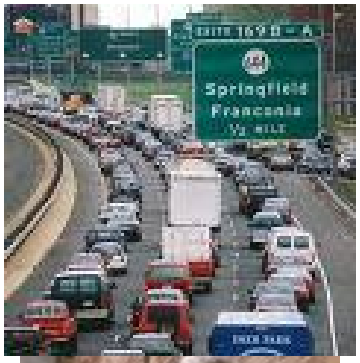
2008 NHTS Add On Program Participants

125,000 Add-On Samples



Overview of the 2008 NHTS








NHTS Design

- List-assisted RDD sample
- Computer-Aided Telephone Interviews
- 13-month data collection period:

  April08 through May09
- Advance letter with $5 incentive
- Household recruitment
- Mail-out Dairy packets
- Reminder calls
- Person level retrieval

2008 NHTS Data Collection

- Collected interviews from HH people ages 5 & older within 7 days of Travel Date
- Collected Proxy interviews
  - 5 – 13 year olds (always)
  - 14 – 15 year olds (unless parent requests in-person)
  - 16+ years old (only after day 3)
- Recruit—10 minutes/Retrieval – 18 minutes per interview
- A complete HH interview required 50% of all adult household members: Non-responding HH members are accounted for in the weights

2008 NHTS Data Coverage

- Weighted to represent one calendar year for annual estimates
- Every sampled HH was assigned a travel day:
  - Ensured balance across each day of the week and month of the year
  - Compare Mondays to Fridays and weekdays to weekend

Scheduled Dates

- Data Processing Phase: May-September 2009
- August 17: Location files sent to Add-Ons
- Individual data sets: October 5, 2009
- Full National & Add-On Public data files: Available January 2010.

NHTS Website: http://nhts.ornl.gov.

NHTS Home - Windows Internet Explorer

http://nhts.ornl.gov/

Live Search

Norton Phishing Protection on | Identity Safe | Log-ins

msn Powered by Live Search Search | News | Entertainment | Video | Sports | Money | Autos | Shopping | Lifestyle | Health | A-List | 32°F

NHTS Home

Page | Tools

NHTS
National Household Travel Survey

U.S. Department of Transportation
Federal Highway Administration

Home | New Users | Online Analysis Tools | Publications | Download Data | User Support

About the NHTS

The NHTS is the authoritative source of national data on the travel behavior of the American public. The dataset allows analysis of daily travel by all modes, including characteristics of the people traveling, their household, and their vehicles. The project is funded and managed by the Federal Highway Administration, Office of Policy and Information .

2008 Survey

- 155,000 US households will participant
- Survey conducted from April 2008 through May 2009
- Add On Program: 20 Add-on partners
- Public use dataset – planned for late Fall of 2009

2008 NHTS...

2008 Survey Participant

An FAQ for participants ⇨ of the 2008 NHTS is available at FHWA.

2001 Survey

- Available to download or tabulate
- 70,000 households
- 9 Add-on partners and a national sample
- Reports, Briefs and Publications including the User's Guide

NHTS Brief

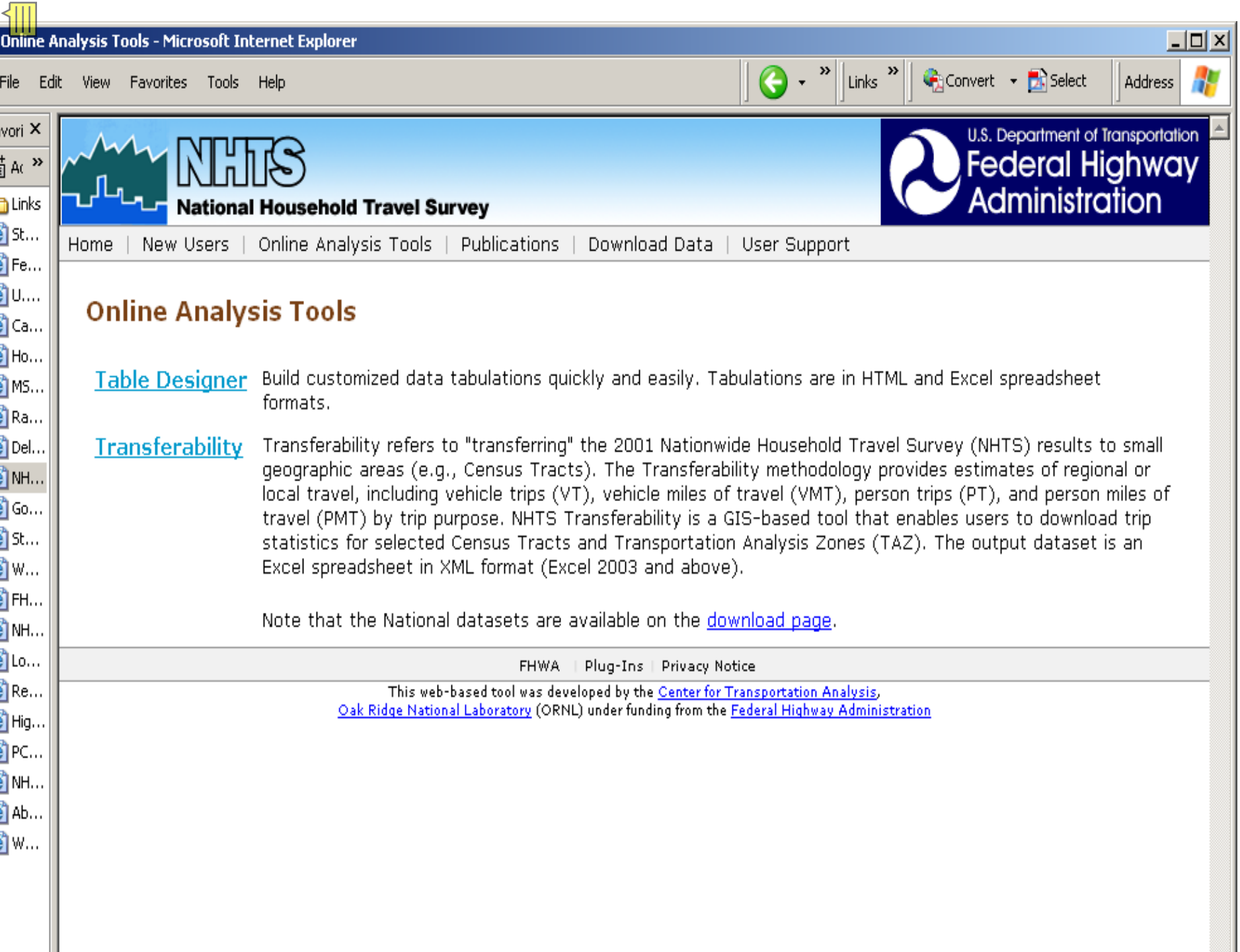
How have gas prices affected summer travel?
Vacation Travel, NHTS Brief, August, 2008 [PDF]

Earlier Surveys

This site has data for the 2001 NHTS, 1995 NPTS, 1990 NPTS, and 1983 NPTS, publications from all surveys, and Online Analysis Tools for the 2001 NHTS and the 1995 NPTS.

Internet | Protected Mode: On | 100%

2008nhtS | Microsoft PowerPoi... | NHTS Home - Wind... | 9:03 PM


Online Analysis Tools - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Links
Convert
Select
Address
NHTS
National Household Travel Survey
U.S. Department of Transportation
Federal Highway Administration
Home | New Users | Online Analysis Tools | Publications | Download Data | User Support
Online Analysis Tools
Table Designer
Build customized data tabulations quickly and easily. Tabulations are in HTML and Excel spreadsheet formats.
Transferability
Transferability refers to "transferring" the 2001 Nationwide Household Travel Survey (NHTS) results to small geographic areas (e.g., Census Tracts). The Transferability methodology provides estimates of regional or local travel, including vehicle trips (VT), vehicle miles of travel (VMT), person trips (PT), and person miles of travel (PMT) by trip purpose. NHTS Transferability is a GIS-based tool that enables users to download trip statistics for selected Census Tracts and Transportation Analysis Zones (TAZ). The output dataset is an Excel spreadsheet in XML format (Excel 2003 and above).
Note that the National datasets are available on the download page.
FHWA | Plug-Ins | Privacy Notice
This web-based tool was developed by the Center for Transportation Analysis, Oak Ridge National Laboratory (ORNL) under funding from the Federal Highway Administration

Highway Community EXchange

Federal Highway Administration

Select A Topic...

FHWA Knowledge

knowledge exchange

National Household Travel Survey



Home What's New e-Mail Notification

FHWA > Knowledge Communities > Highway CommunityExchange > National Household Travel Survey

Welcome to the Federal Highway Administration's National Household Travel Survey "Community of Practice" (CoP). The purpose of CoP is exchange of information and knowledge of transportation issues can take place. Users are encouraged to share their "best practices"; inf or transportation issues that face their communities on a national, state or local level. The NHTS team has dedicated this site to keep th the 2008 NHTS. The site will post NHTS News Briefs and a host of other trend data news resulting from the 2008 NHTS data. Participatio

ISSUES: Current status (as of 3/17/08):
The recent surface transportation authorizing legislation, SAFETEA-LU, drastically reduced the research funding available to Federal Highw funding has been the backbone source of support for the survey series. However, the 2008 NHTS has been funded along with 19 Add-On household travel survey. The 2008 NHTS commenced early March of 2008 and will continue to collect data until spring of 2009.

CHECK AT THIS SITE FOR UPDATES ON STATUS

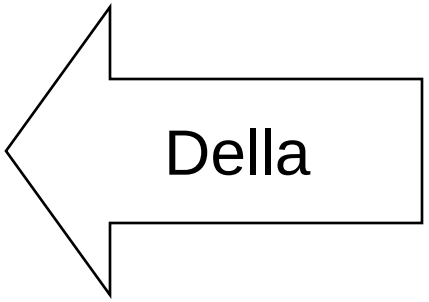
The NHTS User Community

Please post a description on this CoP site of how you have used the NHTS data and the impact it contributes to your work. See the discu other users.

Discussion | Reference | Works in Progress | Directory

Add-on Deliverables

1. Questionnaire
2. Code Book
3. Data Dictionary
4. Copies of Field documents
5. User's Guide (Spring 2010)
6. Examples of Data Uses
7. Location file (Geo-coded)
8. Structure and Use of the Main data files (4)
    1. Household
    2. Person
    3. Vehicle
    4. Daytrip



Questions Added in 2008

- Internet purchases and home deliveries in last month
- Commercial licenses and hybrid vehicles, motorcycles
- Self employment
- Flexible arrival time to work
- Interstate and toll use
- Section on Safe Routes to School
- Park or dropped off at public transportation
    - Originally VA add-on but added to core content: Thanks VA!

Questionnaire

Exact wording of question, response categories and codes, core or add-on specific and CATI variable name

EVA1. Do you usually park your vehicle more than one block from your workplace?
(EVA1)

Vari-able name

YES	1	
NO	2	GO TO Eb
REFUSED	-7	GO TO Eb
DON'T KNOW	-8	GO TO Eb

Only asked in Virginia (EVA1)

EVA2. How many minutes does it take you to walk from where you park to your workplace?
(EVA2)

NUMBER OF MINUTES	|___|___|
REFUSED	-7
DON'T KNOW	-8

E5. For public transit like a bus, the subway, or a train to be a good option for {your/FNAME/AGE/SEX's} commute, which of the following would be most important to you? Would you say that it's…
(FL5, AZ5)

a. Close to work and home,	1
b. Faster than driving,	2
c. Reasonable in cost,	3
d. Consistently on time, or	4
e. Fits your schedule.	5
REFUSED	-7
DON'T KNOW	-8

Asked in Florida and Arizona FL5, AZ5

Questionnaire (cont.)

[N_F12]
Ec. {Do you/Does SUBJECT} have the ability to set or change your own start work time?
(FLEXTIME)

Vari-able name

YES 1
NO 2
REFUSED ..... -7
DON'T KNOW ..... -8

Core Content: asked of all workers

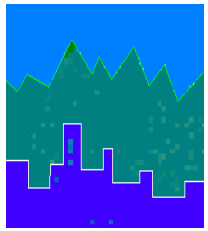
[N_F13]
Ed. {Do you/Does SUBJECT} have the option of working at home instead of going into your primary workplace?
(WKRMHM)

YES	1	
NO	2	GO TO BOX BEFORE F1
REFUSED	-7	GO TO BOX BEFORE F1
DON'T KNOW	-8	GO TO BOX BEFORE F1

[N_F9]
E20. How many times in the last month did {you/SUBJECT} work only at home for an entire work day instead of traveling to your usual {primary} workplace?
(WKFMHMXX)

[DO NOT INCLUDE DAYS WORKED AT HOME IN ADDITION TO AT THE WORKPLACE.]

TIMES ..... |___|___|
REFUSED ..... -7
DON'T KNOW ..... -8



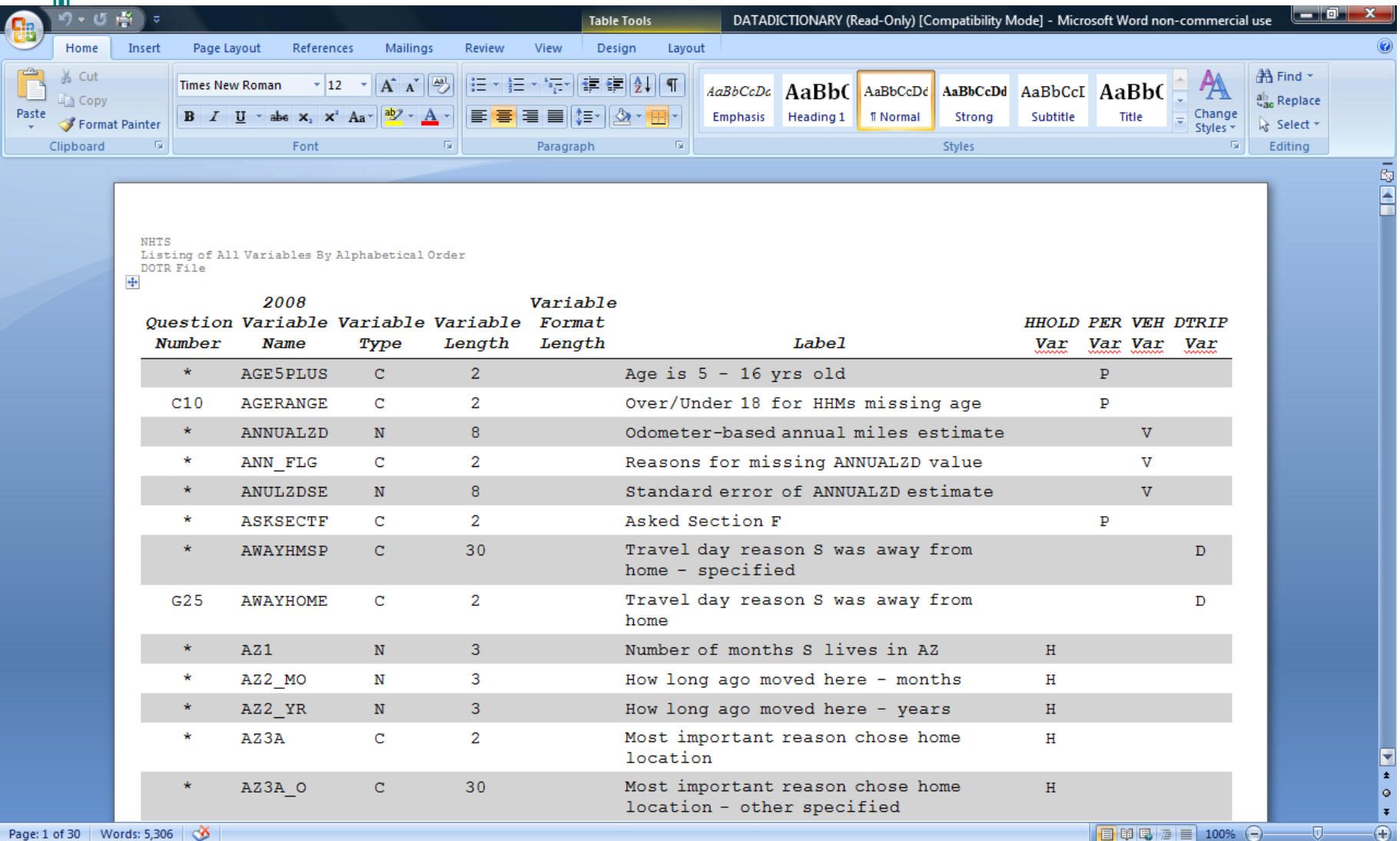
Code Book

Your key to everything: Var name, type, length, label, code and frequency

2008 Variable Name	Variable Type	Variable Length	Label	Value Range Code	Frequency	
WRKCOUNT	N	8	Number of workers in HH		108,572	.
				1	141,903	.
				2	126,399	.
				3	26,166	.
				4	5,705	.
				5	866	.
				6	83	.
WTTRDFIN	N	8	Final trip weight	*	409,694	.

Data Dictionary

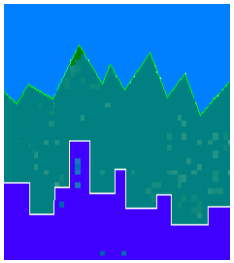
Alphabetic listing of all variables



DATADICTIONARY (Read-Only) [Compatibility Mode] - Microsoft Word non-commercial use

NHTS
Listing of All Variables By Alphabetical Order
DOTR File

Question Number	2008 Variable Name	Variable Type	Variable Length	Variable Format Length	Label	HHOLD Var	PER Var	VEH Var	DTRIP Var
*	AGE5PLUS	C	2		Age is 5 - 16 yrs old		P		
C10	AGERANGE	C	2		Over/Under 18 for HHMs missing age		P		
*	ANNUALZD	N	8		Odometer-based annual miles estimate			V	
*	ANN_FLG	C	2		Reasons for missing ANNUALZD value			V	
*	ANULZDSE	N	8		Standard error of ANNUALZD estimate			V	
*	ASKSECTF	C	2		Asked Section F		P		
*	AWAYHMSP	C	30		Travel day reason S was away from home - specified				D
G25	AWAYHOME	C	2		Travel day reason S was away from home				D
*	AZ1	N	3		Number of months S lives in AZ	H			
*	AZ2_MO	N	3		How long ago moved here - months	H			
*	AZ2_YR	N	3		How long ago moved here - years	H			
*	AZ3A	C	2		Most important reason chose home location	H			
*	AZ3A_O	C	30		Most important reason chose home location - other specified	H			



Field Documents

Advance letter, brochure, trip diary

At the beginning of my travel day (4:00 a.m.) I was:
☐ Home ☐ Some other place

WHERE did you go? (Name of place)	What **TIME** did you start and end each trip?		**WHY** did you go there?	**HOW** did you travel?	How **FAR** was it? (blocks or miles)
	Started at:	**Arrived at:**			
EXAMPLE: *West Park Theater*	*2:00 p.m.*	*2:55 p.m.*	*To see a movie*	*walk, bus, walk*	*6 miles*
1.					
2.					
3.					
4.					
5.					
6.					

User's Guide

The documentation for the entire data collection, weighting, and coding conventions

Brief list of the Table of Contents Include:

- Purpose and Scope of the Survey
- Interview Process
- Procedures and Methods Used
- Survey Response Rates
- Weight Calculations
- Description of Data Files
- Use of the Data (Travel Concepts)
- Standard Tables
- Appendices (Q, Code Book, Dictionary, Glossary etc…)

Add-on Deliverables

1. Questionnaire
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3. List of variable names
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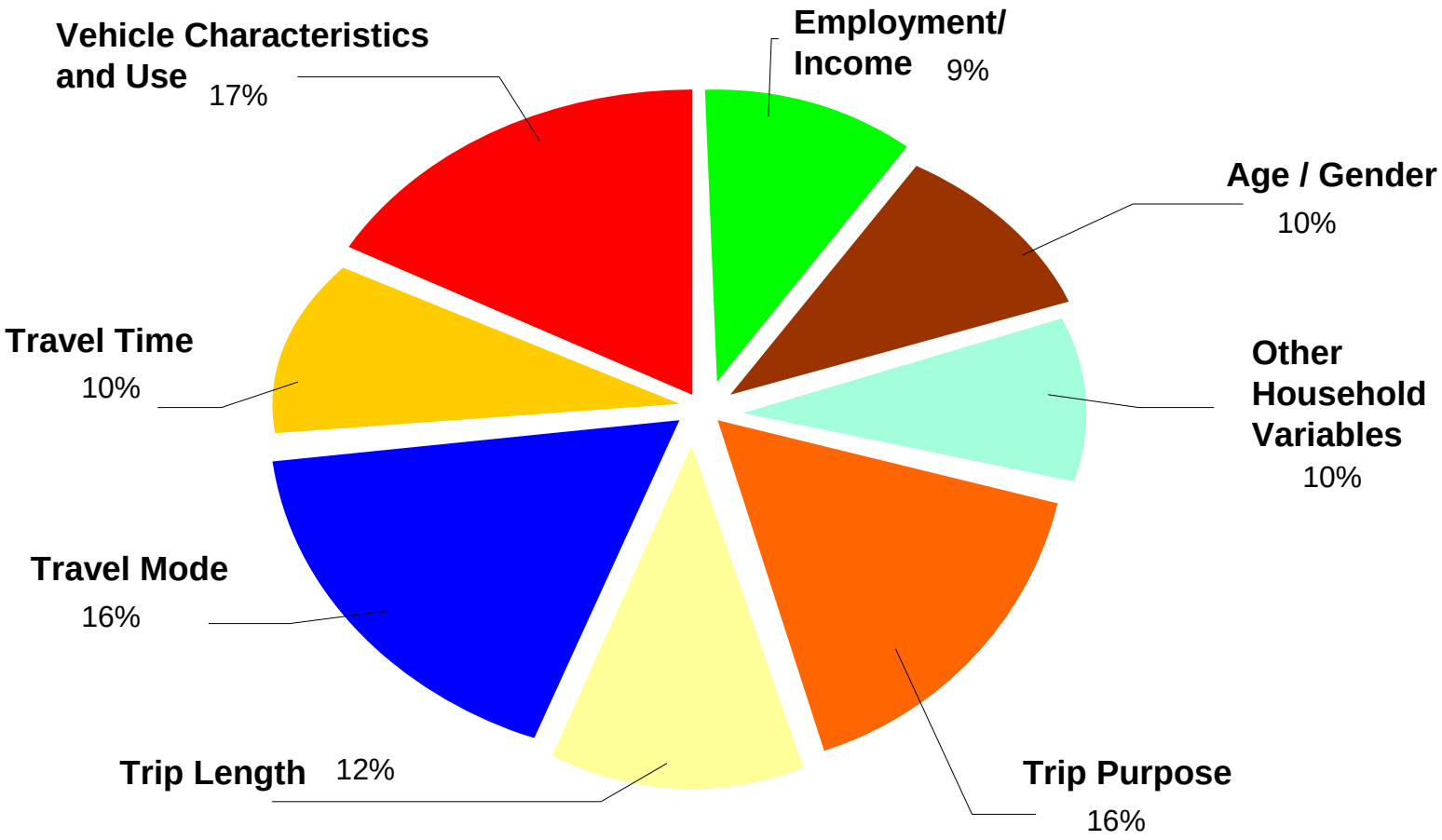
5. User Guide (Spring 2010)
6. Examples of Data Uses
7. Location file (lat/long of trip ends)
8. Structure and Use of the
   Main data files (4)
   1. Household
   2. Person
   3. Vehicle
   4. Daytrip

Nancy

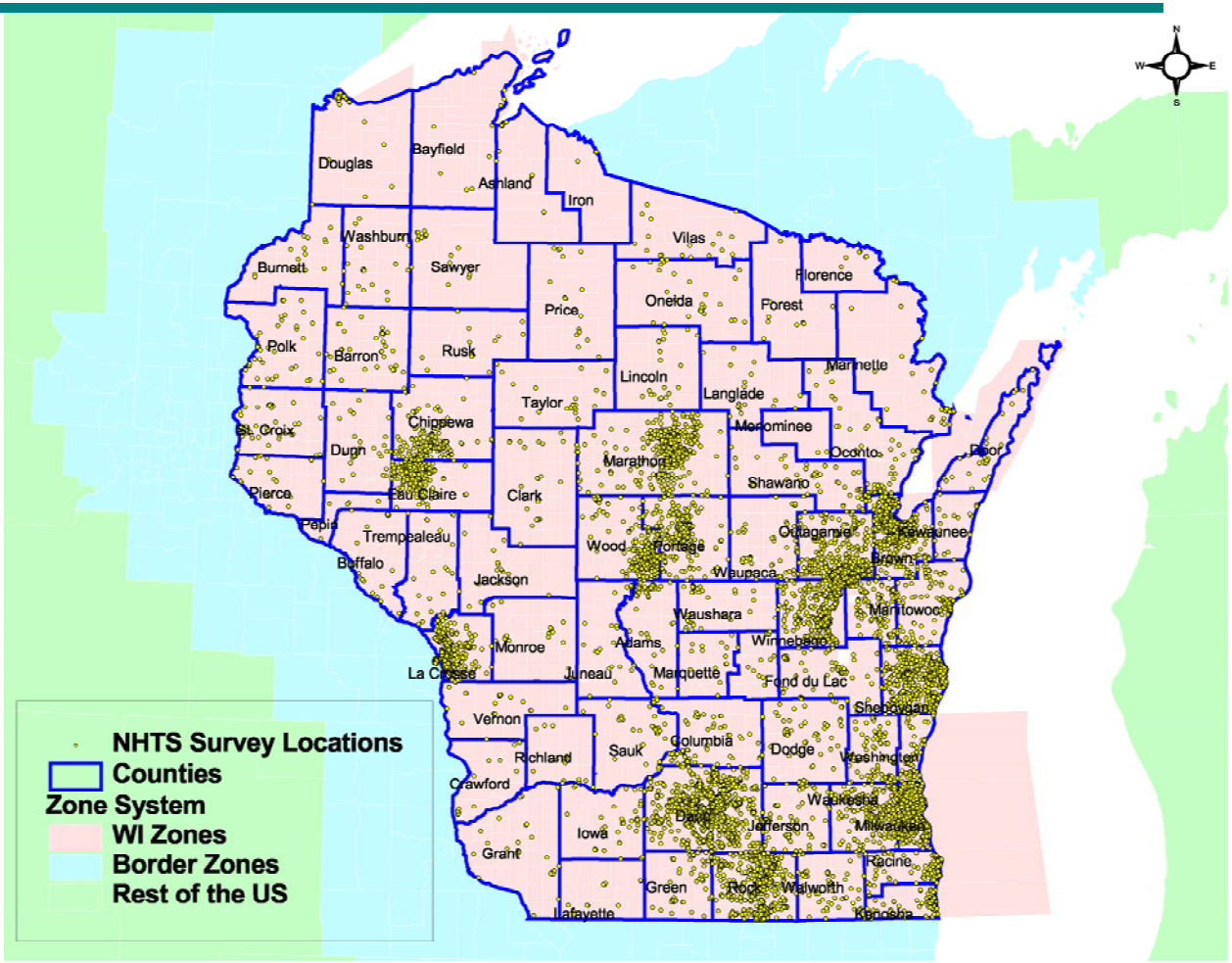
Most Commonly Used Variables



Source: “National Household Travel Survey Data Use: An Overview Prepared by: MacroSys Research and Technology for the Bureau of Transportation Statistics, 2005

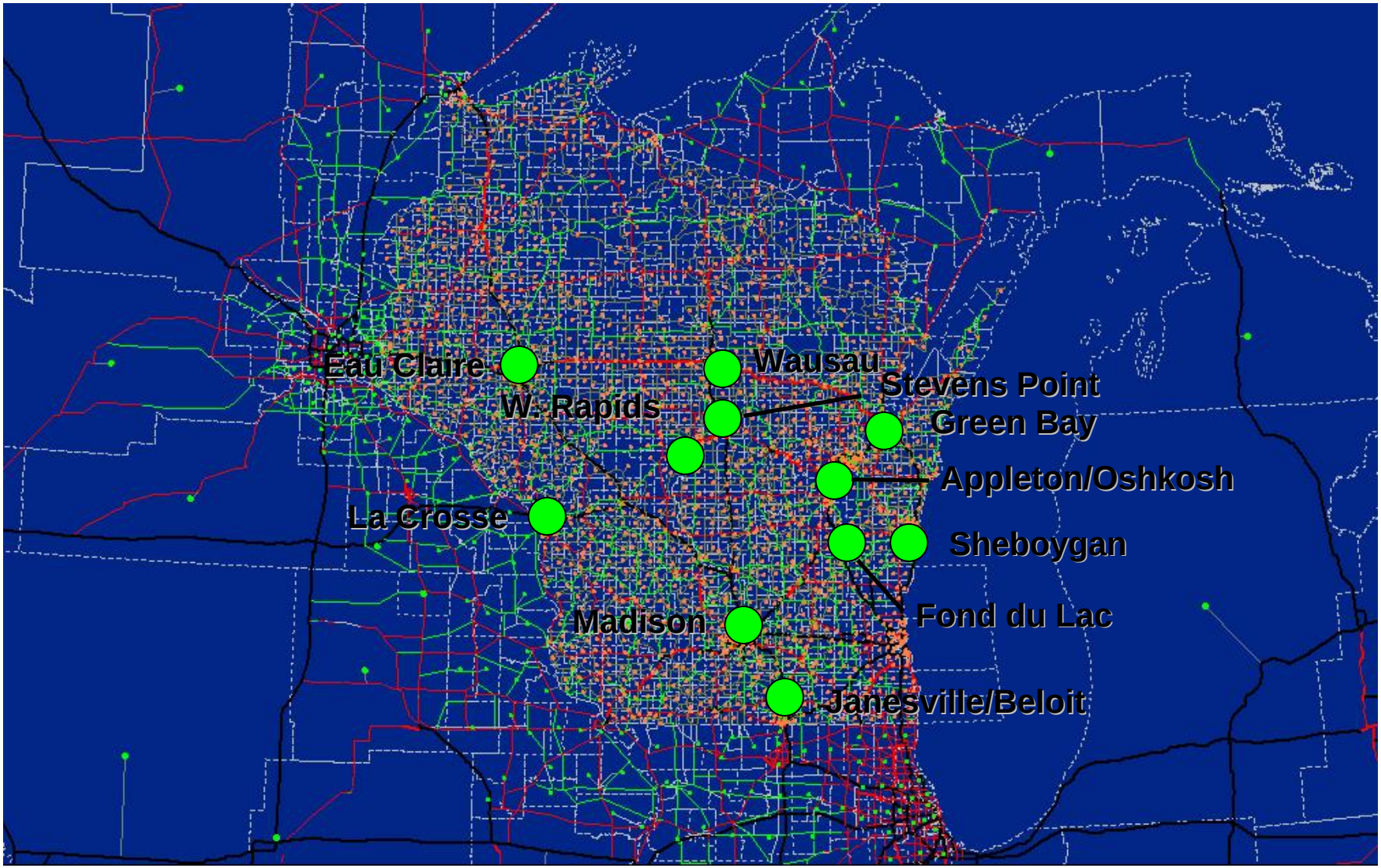
Example of Add-on Uses: Wisconsin Statewide Model

Location of WI-NHTS Sampled Households



WI State DOT Example Courtesy: Kimon Proussaloglou, Cambridge Systematics Inc.

Wisconsin Statewide and individual MPO Models



Integration of Statewide and MPO Models

- Consistency in
  - Travel data sources: NHTS add-on
  - Zonal structure and socioeconomic inputs
  - Network detail and input assumptions
  - Software platform and overall model approach
- MPO model results within the MPO boundaries
- Best practical approach to model integration
- External station trip data from statewide model

Example Data Use: Des Moines IA

Mode Choice Modeling and Travel Time Survey

Findings from the 2001 add-on:

- Transit usage accounted for less than 1 percent of total trips and approximately 1 percent of work trips
- Mode Choice Modeling not warranted by transit use percentage
- In terms of person trips, the afternoon/evening commute is the most heavily traveled time of day
- Lunchtime also is more heavily traveled than the morning commute hours

Time of Day Analysis

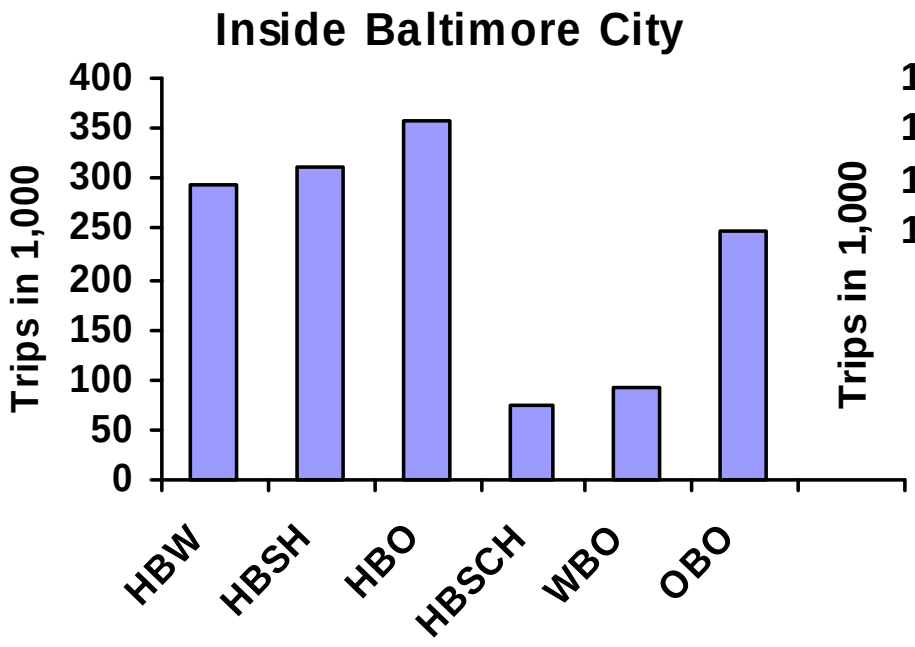
Person Trips		
Rank	Hour	Percent
1	3:00 p.m. to 4:00 p.m.	9.1
2	4:00 p.m. to 5:00 p.m.	9.0
3	5:00 p.m. to 6:00 p.m.	8.9
4	11:00 a.m. to 12:00 p.m.	8.1
5	12:00 p.m. to 1:00 p.m.	7.3
6	7:00 a.m. to 8:00 a.m.	7.3
11	8:00 a.m. to 9:00 a.m.	5.0

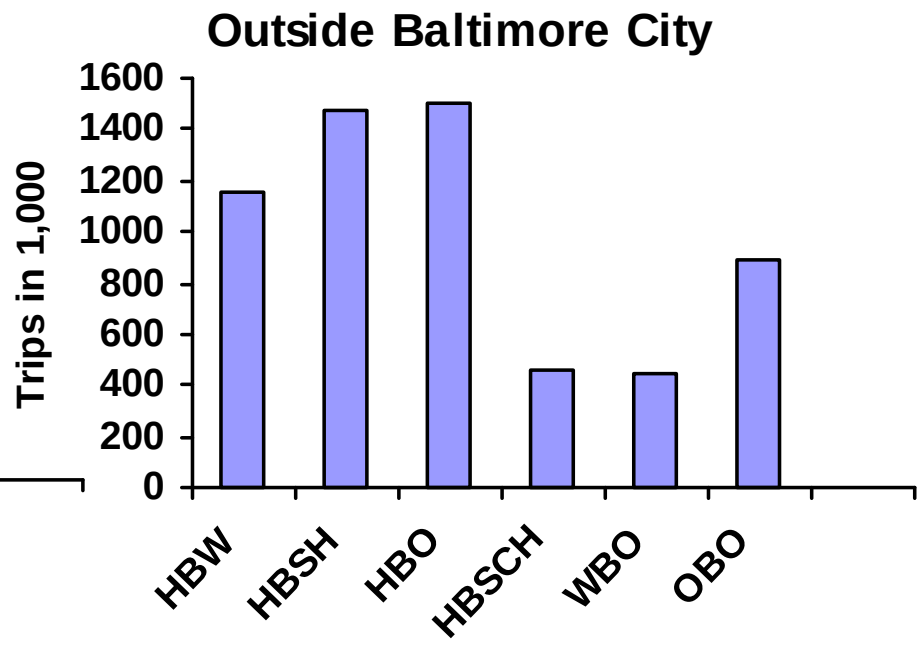
THE MPO
DES MOINES AREA
METROPOLITAN PLANNING ORGANIZATION

Courtesy: Adam Noelting, Des Moines Area MPO

Example Analysis: Baltimore, MD Add-on

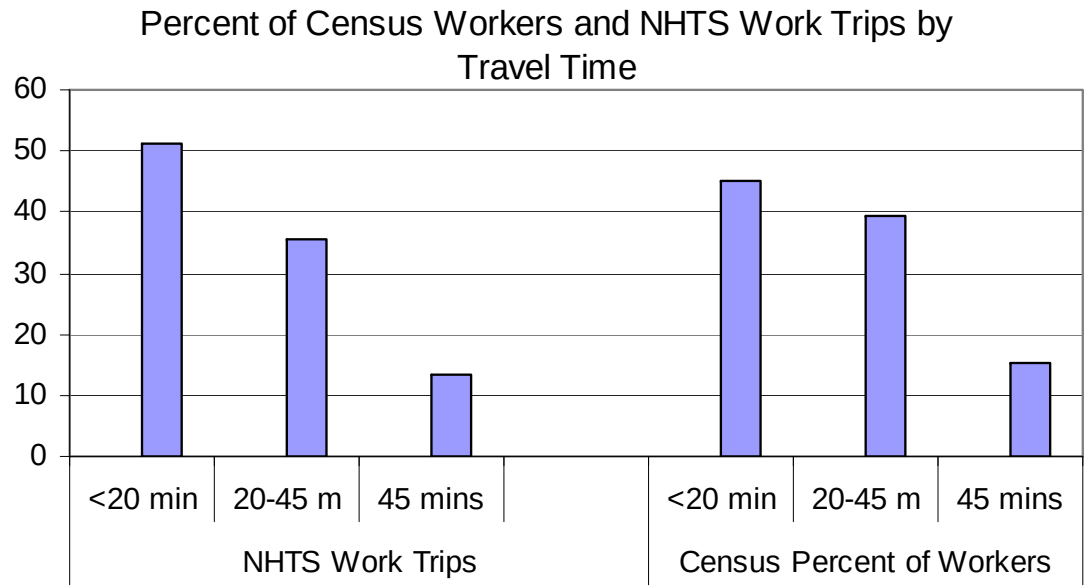
Motorized Person Trips by Purpose





Courtesy: Charles Baber, Baltimore MPO

Example Analysis: Comparison to Census Data



Comparison of Census Departure Time and NHTS Departure Time

	Census	2001 NHTS
5:00 – 6:59am	26.2%	25.0%
7:00 – 7:59am	29.9%	28.4%
8:00 – 8:59am	15.5%	16.0%
9:00 – 9:59am	5.3%	5.6%
All Other Departure Times	19.8%	25.1%

Example Analysis: Understanding Journey-to-Work

Percent of Workers by Usual and Actual Mode to Work on Travel Day, 2001 NHTS

	On Travel Day Took:				
Usual Mode is:	Single Occupant Vehicle	Drove with Others	Transit	Walked	Biked
Drove Alone	90.0%	9.3%	0.2%	0.3%	0.1%
Carpool	22.2%	74.8%	1.0%	1.4%	0.4%
Transit	7.8%	9.7%	69.4%	10.1%	0.5%
Walk	8.1%	9.2%	2.6%	79.5%	0.2%
Bike	6.7%	8.4%	1.7%	6.1%	77.1%

Source: "Journey to Work Trends in the United States and its Major Metropolitan Areas, 1960-2000" FHWA-EP-03-058, Nancy McGuckin and Nandu Srinivasan, 2003)

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   4. Daytrip

Nancy

Location File:

Each **Trip End** latitude and longitude based on:

street address / place name

cross streets (if needed)

landmarks (if needed)

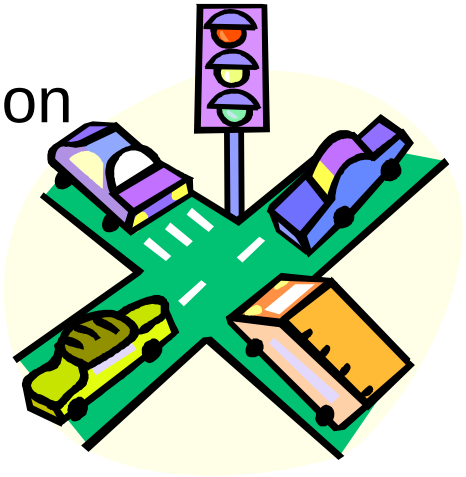
Linked by **HOUSEID PERSONID TRIPID**

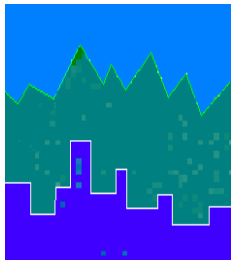
Results to address or nearest intersection

Household = 94.9%

Workplace = 91.4%

Trip ends = 90.8%





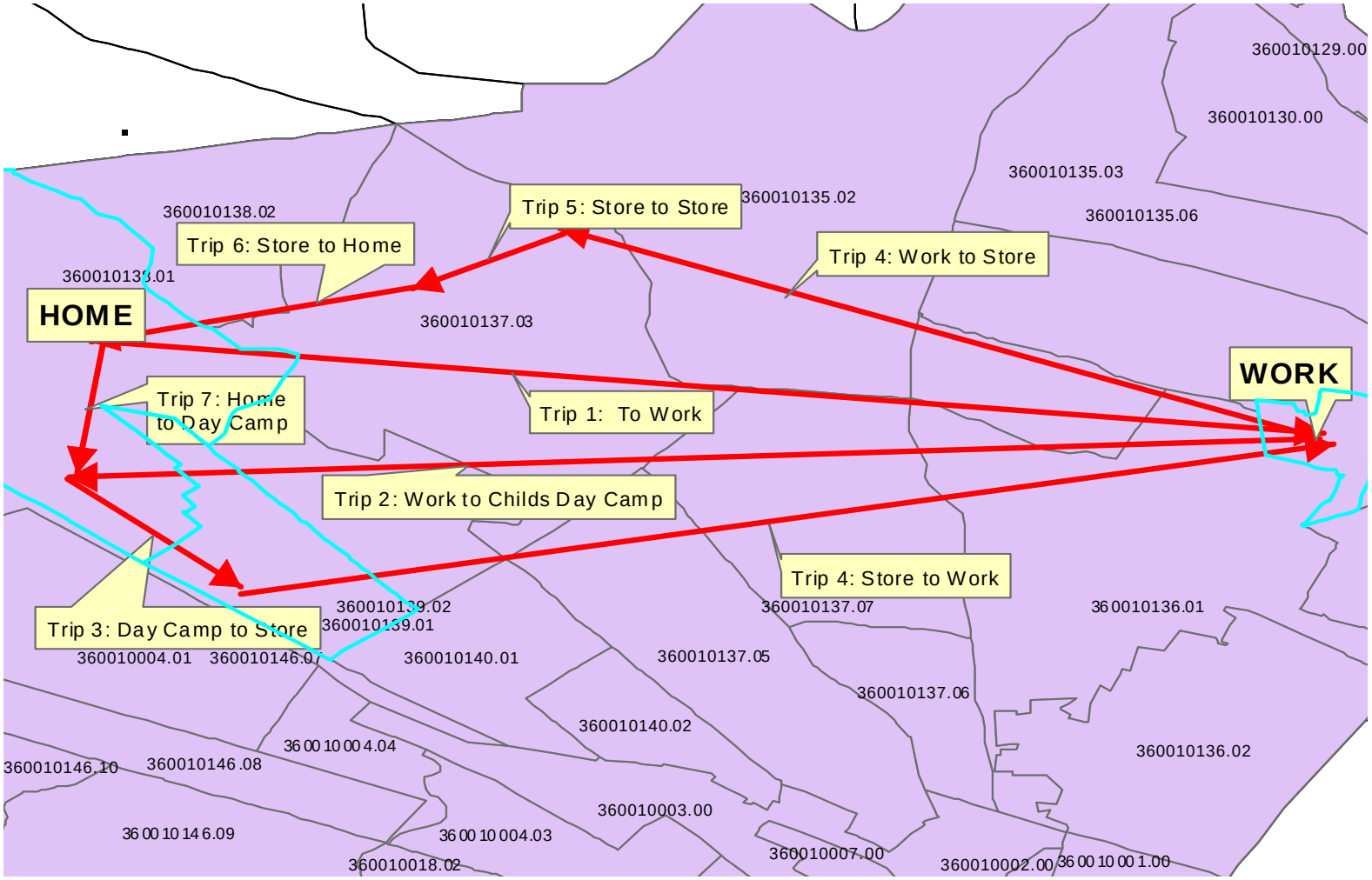
Location File Variables

LOCATION FILE VARIABLES
2008 NHTS

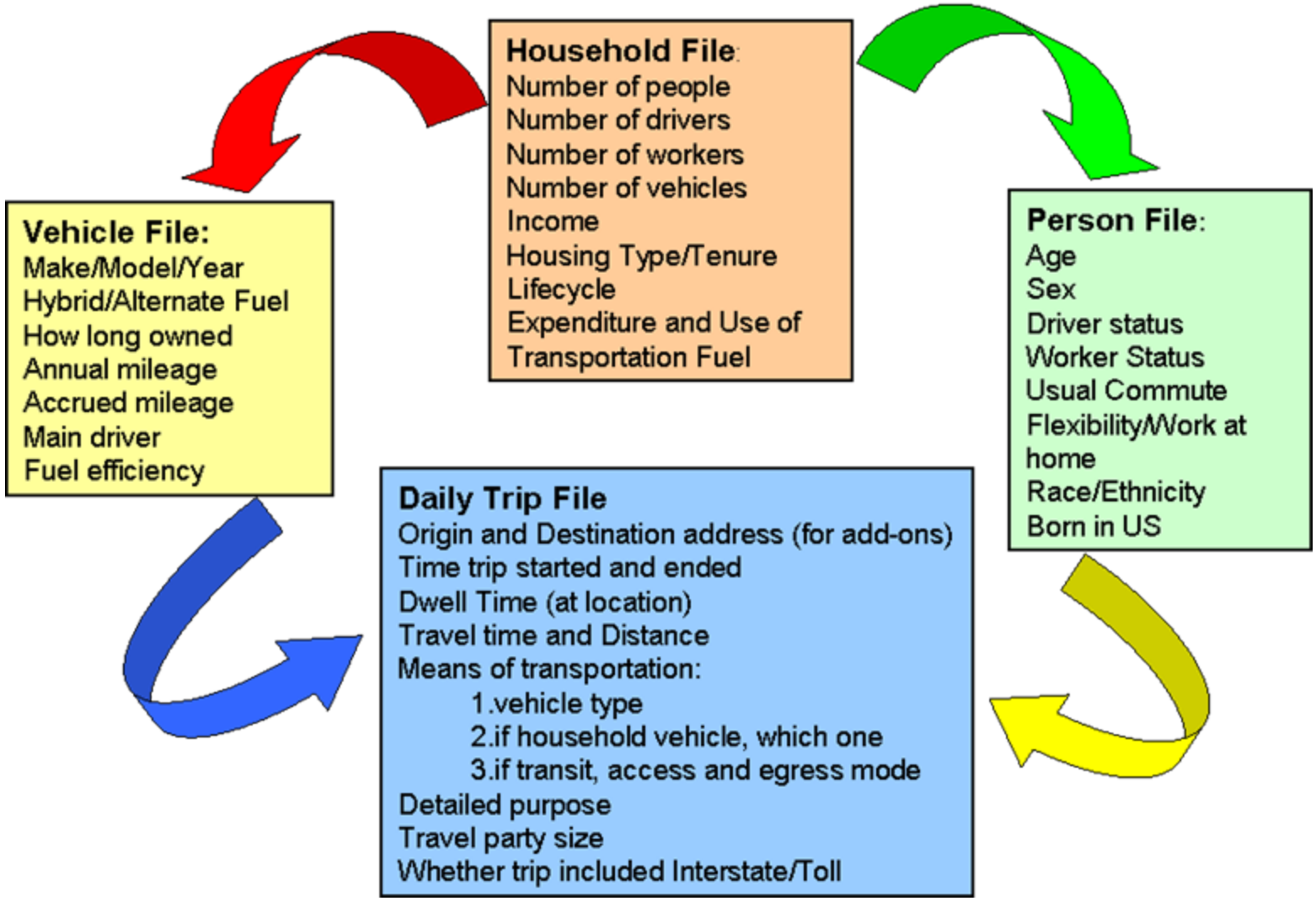
#	Variable	Type	Len	Format	Informat	Label
5	HOUSEID	Char	8	14.	14.	Household ID
4	PERSONID	Char	2			Person identification number
27	PLBG	Char	2			Trip Destination, Block Group
12	PLCITY	Char	20			Travel day trip end - city or town
25	PLCNTYFP	Char	3			County of Trip Destination (FIPS code)
26	PLCP	Char	6			Trip Destination, Census Place
28	PLCT	Char	6			Trip Destination, Census Tract
17	PLLNMRK1	Char	25			Travel day trip end landmark1
18	PLLNMRK2	Char	25			Travel day trip end landmark2
19	PLLNMRK3	Char	25			Travel day trip end landmark3
15	PLROAD1	Char	45			Travel day trip end intersection, road1
16	PLROAD2	Char	45			Travel day trip end intersection, road2
13	PLSTATE	Char	2			Travel day trip end - state
24	PLSTATFP	Char	2			State of trip destination (FIPS code)
11	PLSTNAME	Char	45			Travel day trip end - street name
10	PLSTNUM	Char	10			Travel day trip end - street number
14	PLZIP	Char	5			Travel day trip end - ZIP code
2	TDCASEID	Char	12			Composite travel day trip ID number
3	TDTRPNUM	Char	2			Travel day trip number for respondent
23	TRPEDGEO	Char	2			Level of geocoding trip end location
32	TRPENDLA	Num	8	16.	16.8	Trip end latitude
31	TRPENDLO	Num	8	16.	16.8	Trip end longitude
1	WHERE	Char	2			Travel day trip destination
6	WHEREOS	Char	30			Travel day trip destination - other

Plus: FRSTHM, HOMELAT, HOMELONG, WORKLAT, WORKLONG

Location File
Geo-Coded Trip Ends



NHTS Data File Overview



Household File

Example of Key Variables

WEIGHT: **WTHHFIN**

HHSTATE: ‘AL’ through ‘WI’

SMPLAREA: ‘US’ plus ‘CA’ through ‘WI’ for each add-on

Includes ALL samples (National plus Add-on)

HHSIZE: Number of HH members from 1-14

HHVEHCNT: Number of HH vehicles from 0-19

HHFAMINC: ’01’ (<$5,000) to ’18’ (100,000 +)

Note: You’ll want to group these into combined categories, e.g.

'01' - '07' = '< $35K '
'08' - '12' = '35K-$60K '
'13' - '16' = '60K-$80k+'
'17' - '18' = '80k+'

CNTTDTR: Count of Travel Day Trips for the HH from 0-119

Household File Only

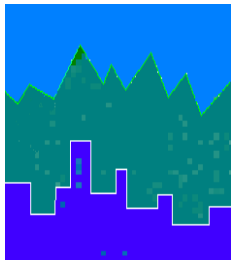
Example analysis: Mean Person Trips per HH by HH size and Number of Vehicles

VAR: Person Trips (**CNTTDHH**)

By **HHSIZE** and **HHVEHCNT** where **SMPLAREA**='VA'

Weight: **WTHHFIN**

	Autos per Household		
Household Size:	**Zero**	**One**	**Two+**
One Person	**1.9**	**3.5**	**3.9**
Two People	**5.8**	**7.9**	**8.9**
Three People	**9**	**11.4**	**13.8**
Four People	**10.3**	**15.1**	**18**
5 or More	**15.4**	**17.2**	**22.9**



Vehicle File:

Example of Key Variables

Weight: WTHHFIN

SMPLAREA - 'CA' through 'WI' for Add-Ons

VEHTYPE - Car, Van, SUV, Pickup, etc.

HYBRID – Whether Hybrid/Alt fuel is used

VEHCOMM – Whether vehicle has commercial license plate

ANNMILE - Estimate of annual miles for each vehicle

OD_READ – Odometer reading (accrued miles)

WHOMAIN - Primary Vehicle Driver (**PERSONID**)

Vehicle File Only

Example Analysis: Annual Miles per Vehicle by Vehicle Type

VAR: **VEHTYPE** and **ANNMILE**
Where **SMPLAREA**='NC' and
HYBRID='01' (Yes) or '02' (No)
WEIGHT=**WTHHFIN**

Miles per Vehicle by Vehicle Type (Hybrid separate)

	Percent of Fleet	Annual Miles per Vehicle
CAR	**50.35**	**9,749**
Pick-Up	**18.94**	**9,536**
SUV	**17.19**	**11,458**
Van	**8.86**	**11,179**
All Hybrid/Alt Fuel	**5.03**	**13,224**

Person File:

Example of Key Variables

Weight: WTPERFIN

MAINRSLT: ‘C1’ and ‘C2’ are completed persons, ‘J1’ ages 0-4, ‘NG’ is military deployed

SMPLAREA: ‘CA’ through ‘WI’ for add-ons

R_AGE/R_SEX - Age and Gender

WORKER/DRIVER - ’01’-Yes, ’02’=‘No’

WKFTPT – Employed full-time or part-time

WRKTRANS - Usual mode used to work last week

WRKTIME – Usual arrival time to work

FLEXTIME – Option of setting own arrival time

Person File Only

Example analysis: Worker Characteristics

VAR:**WKFTPT, FLEXTIME, WKRMHM, SELF_EMP, OCCAT**
Where **WORKER**=’01’ and **SMPLAREA**=‘CA’ and **MAINRSLT**=‘C1’ or ‘C2’ and **R_AGE** between 16-64 and 65+
Weight=**WTPERFIN**

	All Workers	Workers 65 and Older
Full-Time	**76.9**	**43.4**
Part-Time	**23.1**	**56.6**
Have Flex-Time	**35.8**	**45.9**
Option to Work from Home	**9.5**	**12.2**
Self-Employed	**15.0**	**38.9**
Occupation		
Sales or Service	**27.5**	**30.8**
Clerical/Admin. Support	**10.6**	**15.8**
Manuf/Construction	**20.2**	**16.8**
Professional/Managerial	**39.0**	**32.0**

Trip File
Example of Key Variables

Weight: **WTTRDFIN**

SMPLAREA: ‘CA’ through ‘WI’

STRTTIME: Trip Start Time, Military

WHYTO and WHYFROM: Detailed Trip Purpose

TRPTRANS: ’01’-’07’ (Personal Vehicles)

’09’-’14’ (Bus, e.g. Transit, School, Greyhound)

’15’-’18’ (Train, e.g. AMTRAK, Subway, Trolley)

’19’-’24’ (Other, e.g. Bike, Walk, Ferry, Airplane)

Note: You’ll want to group these into different categories to combine transit, separate walk and/or bike, etc.

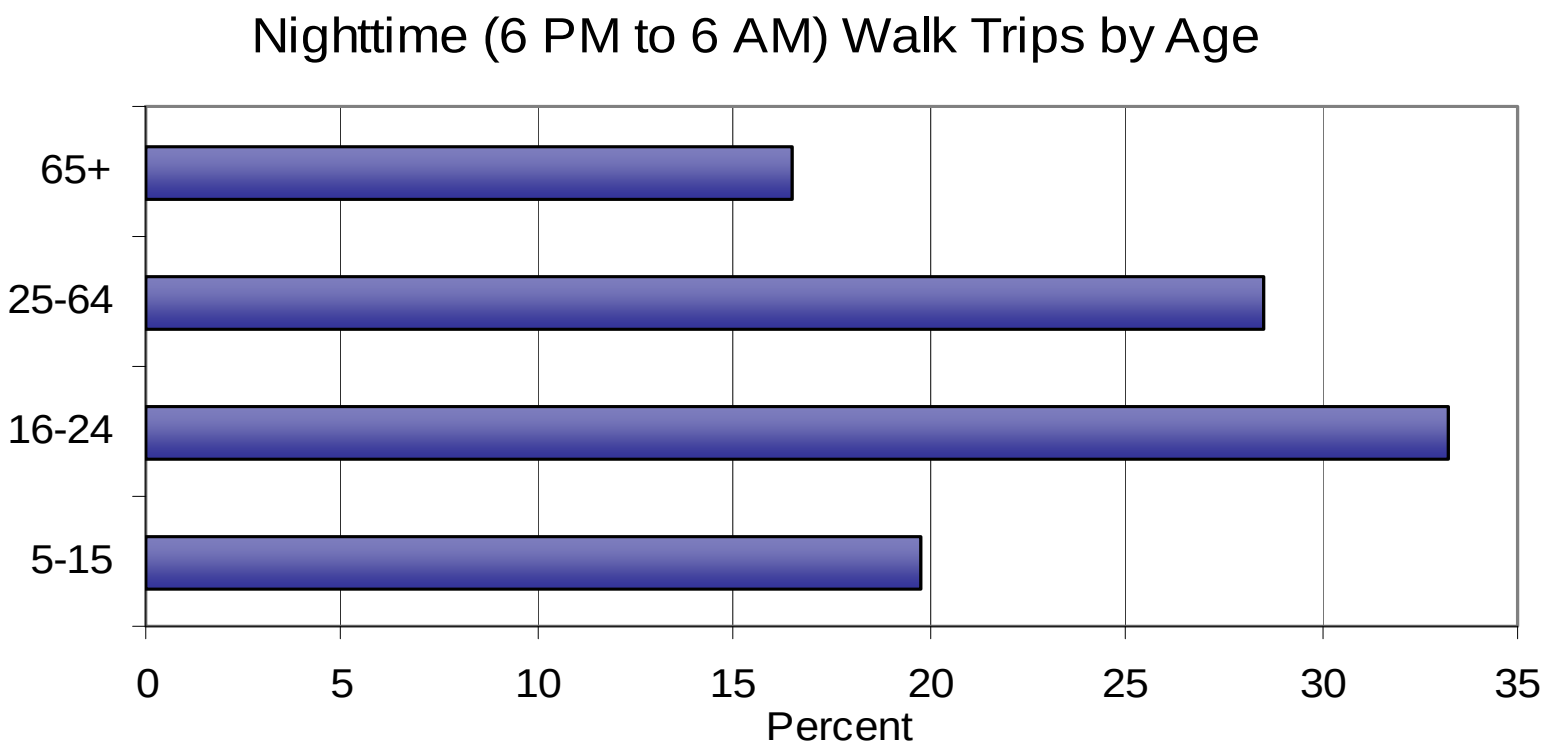
Trip File Only

Example analysis: Walk Trips by Time of Day and Age of Traveler

VAR: Walk Trips (**TRPTRANS**='23')

STRTTIME by **R_AGE** where **SMPLAREA**='CA'

Weight= **WTTRDFIN**



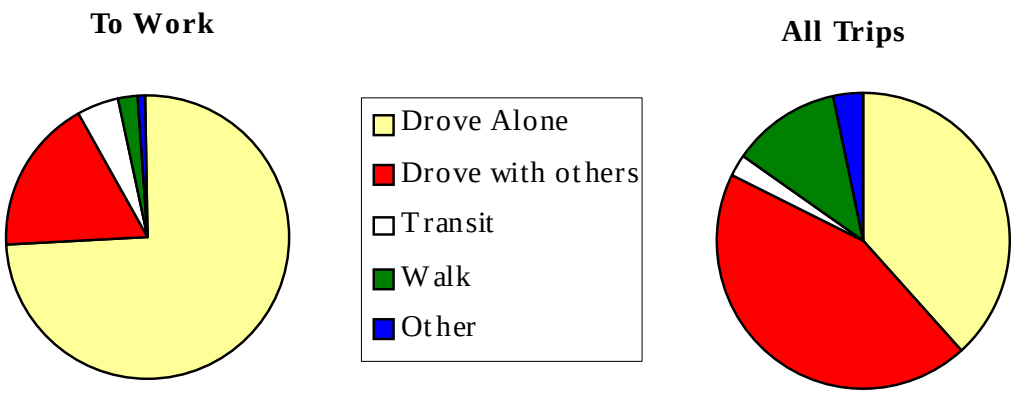
Trip File Only:
Mode of Travel for Work and Non-Work

Var: **TRPTRANS** by **WHYTO** (Work and Non-Work)

where **WORKER='01' and SMPLAREA**='GA'

Weight: **WTTRDFIN**

Percent of Workers	To Work	All Trips
Drove Alone	73.8	38.4
Drove with others	18.1	43.9
Transit	4.7	2.3
Walk	2.5	12.4
Other	0.9	2.9



Trip File combined with Household File

Example Analysis: Person Trips per HH by Income and Purpose

VAR: Average Person Trips (Summed from Trip File)

HHFAMINC by **WHYFROM** and **WHYTO**

where **SMPLAREA**='FL'

WEIGHT=**WTTRDFIN**

HHFAMINC	HBW per HH per Day	HBO per HH per Day	NHB per HH per Day
< $35K	0.78	4.8	2.4
35K-$60K	1.3	6.58	3.81
60K-$80k+	1.61	7.79	4.53
80k+	1.54	8.27	5.04

Have Questions?

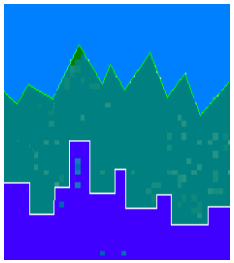
- Ask us through the

Community EXchange:

http://knowledge.fhwa.dot.gov

Polling Questions

How did we do?



From all of us…

Thank You Add-ons!