

NHTS Update

presented to
Florida Model Task Force

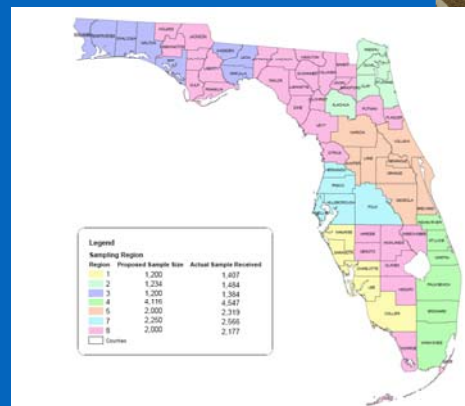
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Final Florida Sample

- Data Collection done from April 2008 to March 2009
- Proposed Sample Size = 14,000
- Actual Sample Received = 15,884
 - Includes National Sample
 - Oversample



Structure of Data Files

Data File	Information Included	Record Level	ID Variable	Weight Variable
Households	Data unique to a household, or questions asked once for each sample household.	One record per household	HOUSEID	WTHHFIN
Persons	Data determined once for each completed person interview.	One record per person	HOUSEID, PERSONID	WTPERFIN SFWGT (for school children between 6 to 12)
Travel Day Trips	Data about each trip the person made on the household's randomly-assigned travel day.	One record per travel day person trip	HOUSEID, PERSONID, TDTRPNUM	WTTRDFIN
Vehicle	Data relating to each of the household's vehicles.	One record per vehicle	HOUSEID, VEHID	WTHHFIN

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Data Weighting

- Weights are needed to produce valid population-level estimates
- The weights include a correction for the probability of selection based on your sample plan in addition to a non-response adjustment to reduce sampling error and bias
- To weight a variable, simply multiply the record by its weight.
- For school children aged 6-12 in the Person File use SFWGT

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Weighting Procedure

- Construction of base weights
- Construction of jackknife replicate weights
- Household-level non response adjustments
- Composition of the household non response adjusted base weights by 'domain'
 - Quarter of travel and geography
- Household level raking
- Person level non response adjustments
- 4 • Person level raking

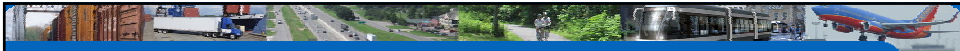


Florida Sampling Regions and CBSA

Region	CBSA Category	County
1-South Gulf Coast	3	Manatee, Sarasota, Charlotte, Lee, Collier
2-Atlantic North Coast	2	Nassau, Duval, Clay, St. John's
2-Atlantic North Coast	3	Alachua
3-Panhandle	3	Escambia, Santa Rosa, Okaloosa, Bay, Gadsden, Leon, Wakulla
3-Panhandle	4	Walton
4-Atlantic South Coast	1	Miami-Dade, Broward, Palm Beach
4-Atlantic South Coast	3	Martin, St. Lucie, Indian River
5-Center	2	Osceola, Orange, Seminole, Lake
5-Center	3	Brevard, Marion, Volusia
5-Center	4	Sumter
7-Central Gulf Coast	2	Hernando, Pasco, Pinellas, Hillsborough
7-Central Gulf Coast	3	Polk
8-Other	2	Baker
8-Other	3	Gilchrist, Flagler, Jefferson
8-Other	4	All others

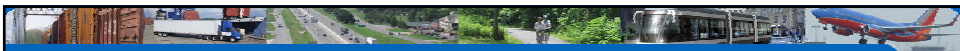

- 01- CBSA of 1 million or more with heavy rail.
- 02- CBSA of 1 million or more without heavy rail.
- 03- Metropolitan CBSA of less than 1 million.
- 04- Micropolitan CBSA or non-CBSA.





Florida Household Raking Dimensions


- Sampling Region x CBSA category
- Sampling Region x Black screener respondent or not
- Sampling Region x Hispanic screener respondent or not
- Sampling Region x Owner/Renter or other status
- Sampling Region x Number of Household vehicles
- Month of year
- Day of week
- 6 • Household size x number of workers



Florida Person Raking Dimensions

- Sampling Region x CBSA category
- Sampling Region x Black screener respondent or not
- Sampling Region x Hispanic screener respondent or not
- Sampling Region x Age and Gender
- Month Pairs
- Day of week

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Florida NHTS Guidebook

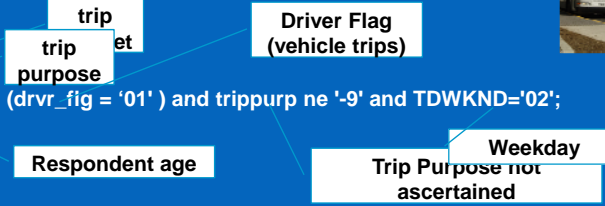
Outline for NHTS Guidebook

1. Chapter 1 – NHTS Background
 - a. Florida Sampling Plan
 - b. Final Sample Distribution
 - c. Control Totals
2. Chapter 2 – Weight Development
 - a. Procedures used to develop weights
 - b. Data Sources for weights
3. Chapter 3 – Trip Generation
 - a. Cross Classification Production Rates by Purpose
 - i. Standard FSUTMS GEN model
 - ii. Standard FSUTMS GEN model with 3+ autos available
 - iii. Standard FSUTMS GEN model rural vs. urban (statewide model)
 - iv. District 1 Dual GEN model (permanent vs. seasonal HRs)
 - v. Southeast Florida Lifestyle model
 - vi. Tampa Bay Lifestyle model
 - b. Attraction Parameters
 - i. Occupation by Area Type
 1. Based on Urban Size
 - ii. Workers with Children
 - iii. Workers without Children
 - iv. Number of Retired Members/Household
 - c. Lifecycle Choices
 - i. Reason for Choice of Current Home Location
 - ii. Reason to continue at Current Home Location
4. Chapter 4 – Trip Distribution
 - a. Average Trip Length by Purpose
 - b. Average Trip Length by Purpose and Income
 - c. Average Trip Length by Purpose rural vs. urban (statewide model)
 - d. Trip Length Frequency Distribution
 - e. Default set of Friction Factors by Purpose
5. Chapter 5 – Auto Occupancy Characteristics
 - a. Auto Occupancy by Purpose
 - b. Auto Occupancy by Urbanized Area Size, including rural
 - c. Auto Occupancy by Income
 - d. Auto Occupancy by Time of Day
6. Chapter 6 – Time of Day Factors and CONFAC Values
 - a. Time of Day by Purpose
 - b. Time of Day by Urbanized Area
 - c. Time of Day by Income
7. Transit Shares
 - a. Calculated Transit Mode Shares

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Sample Guidebook Example – Weekday Trip Purpose Distribution

```
proc freq data=nhts.fltrip;
  tables trippurp;
  where r_age ge 16 and (drvr_fig = '01') and trippurp ne '-9' and TDWKND='02';
  weight WTTRDFIN;
run;
```



```
proc freq data=nhts.fltrip;
  tables trippurp;
  where r_age ge 16 and (Worker = '01') and trippurp ne '-9' and TDWKND='02';
  weight WTTRDFIN;
run;
```

Worker Status

	R_AGE GE 16 & DRV_FLG = '01'		R_AGE GE 16 & WORKER = '01'	
TRIPPURP	COUNT	PERCENT	COUNT	PERCENT
HBW	2,013,583,293	19.5%	2,257,254,166	24.9%
HBSHOP	2,080,373,095	20.1%	1,381,584,884	15.2%
HBSOGREC	802,967,546	7.8%	842,360,037	9.3%
HBO	2,192,481,775	21.2%	1,681,099,705	18.5%
NHB	3,245,340,510	31.4%	2,908,611,363	32.1%
TOTAL	10,334,746,219	100%	9,070,910,155	100%



Next Steps

- Final draft guidebook due to FDOT by December 10
- FDOT will convert SAS code to SQL
- FDOT will release guidebook in 2011