

National Household Travel Survey (NHTS) Program

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Presentation Outline

- ✓ What It NHTS
- ✓ What Traffic Monitoring Professionals Need to Know
- ✓ Information Derived
- ✓ 2017 Summary
- ✓ Add-on Program
- ✓ Next Generation NHTS



What is the NHTS?

The National Household Travel Survey (NHTS) is a periodic national survey providing travel behavior data to support transportation policy and planning efforts. The survey has been conducted every 5-8 years since 1969 – 50 years of data!

Prior to 2017, the last NHTS was in 2009



Why Do Traffic Monitoring Professionals Need to Know NHTS?

NHTS data and information:

- provide the “reason” and “rational” on traffic volume and class data observed from traditional traffic monitoring
- bridge gaps between empirical count data and fundamental travel behavior decision makings
- enable more effective trend analysis
- help to explain what observed with count data

Ultimately, making both traffic monitoring professional and monitored data be more valuable and more relevant!



2017 NHTS:

Data collected on trips taken by all members age 5+ of participating households over a 24-hour period. Final data set details daily household and personal travel patterns over a complete year. The survey data collection period was from April 2016 through April 2017.

Key data include:

Purpose of the trip



Means of Transportation



Trip rates by purpose



Travel time and time of trip



The 2017 NHTS Survey at a glance:

264,000 people

130,000 households

Represents all parts of the US, urban and rural

Demographics, attitudinal and travel behavior data

One day (24-hours) travel information from each household

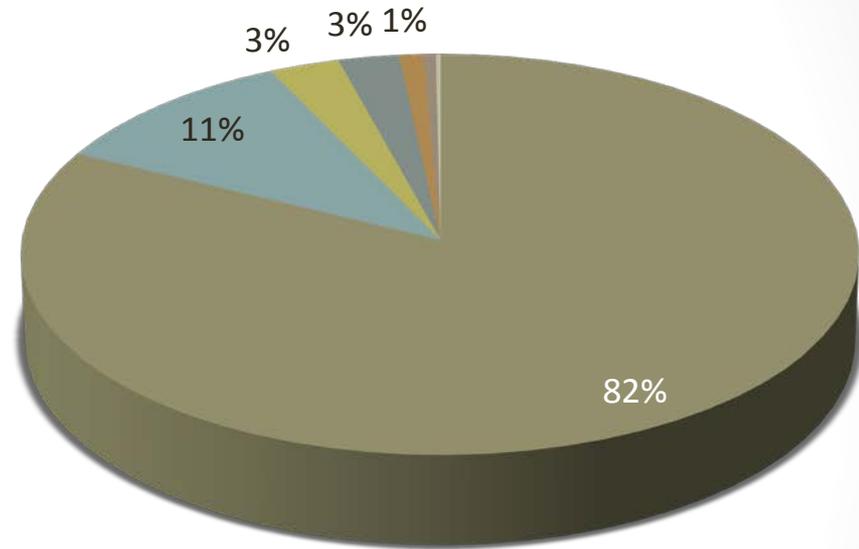
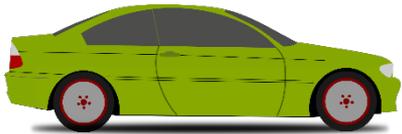
All trips and all purposes by all means of travel

National + 13 add-on partners (9 State DOTs and 4 MPOs)



Modal Share

A Total Of Over 371 Billion Trips



- POV
- Walk
- Others
- Transit
- Bicycle
- Taxi / Limo (including Uber / Lyft)
- Rental car (including Zipcar / Car2Go)



2017 Add-on Partners

- State Agencies:

- Arizona DOT
- Caltrans
- Georgia DOT
- Maryland SHA
- New York State DOT
- North Carolina DOT
- South Carolina DOT
- Texas DOT
- Wisconsin DOT

- MPO Agencies:

- Des Moines, IA Area MPO
- Iowa Northland Regional COG (Waterloo, IA)
- Indian Nations COG (Tulsa, OK)
- North Central Texas COG (Dallas-Ft. Worth)



Sample Add-on Questions

- AZQ5 What type of transportation investments should the **state** focus on? Please indicate your top **THREE** choices.
 - a. New roadways
 - b. Existing roadway maintenance/reconstruction
 - c. Public transportation
 - d. Sidewalks
 - e. High-occupancy vehicle lanes
 - f. Bike lanes and paths
 - g. Recreational trails
 - h. Transportation system management/signal coordination



Sample Add-on Questions

CAQ4. [Ask if age 16+] What keeps you from biking (or biking more often) to your destination(s)? Please indicate the top THREE reasons:

- Health issues
- No one to bike with
- No nearby paths or trails
- Not enough bike lanes or wide curb lanes
- No sidewalks/Sidewalks are narrow or in poor condition
- Utility poles in the middle of the sidewalk
- Too far to travel by bike
- Safety concerns
- Too much traffic
- Air quality
- No shops or other conveniences nearby
- Prefer to drive





NHTS Application

- ✓ Used for travel demand analysis including State DOTs and MPOs travel demand modeling work
- ✓ Used for a wider range of policy issue and scenario based analysis
- ✓ Used to support legislative initiatives
- ✓ Used in various traffic data monitoring and estimation processes
- ✓ Vehicle Occupancy for PM3



Challenges Moving Forward

- ✓ Low response rate
- ✓ Costly



Next Generation NHTS

- ✓ Take advantage of new data sources
- ✓ Switch to a annual survey to be enhanced with other administrative data
- ✓ Pool resources together to take advantage on the scale of economy phenomena
- ✓ Collect both trip rate and origin destination data



Pooled Fund Solicitation

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Solicitation Detail View

Moving Forward with the Next Generation Travel Behavior Data Collection and Processing (The WAIVER IS APPROVED FOR SPR-A FUNDS ONLY...NOT APPROVED FOR SPR-B)

General Information

Solicitation Number: 1466	Status: Solicitation posted	Date Posted: Feb 13, 2018
Last Updated: Mar 28, 2018	Solicitation Expires: Mar 15, 2019	Partners: OH , VA
Lead Agency: Federal Highway Administration		

Contact Information:

Lead Agency Contact:
Wenjing Pu
wenjing.pu@dot.gov
Phone: 202- 366-5024

Financial Summary:

Commitment Start Year: 2018	Commitment End Year: 2022	100% SP&R Approval: Approved
Commitments Required: \$2,000,000.00	Commitments Received: \$3,025,000.00	



<http://www.pooledfund.org/Details/Solicitation/1466>



Add-On Two Levels of Participation

1. Join without data purchase (\$5000 a year)

- Join the Working Group (annual in-person meeting)
- Access the latest national data and information
- Gain centralized technical and peer support in data applications

2. Join with data purchase (minimum \$25,000 a year)

- Purchase additional core survey data AND/OR passive OD data for any data year(s) between 2019-2023
- Lower the data cost (economies of scale)
- Gain nationally consistent data so that data controls and comparisons can be efficiently enabled
- Having no or minimum contracting or oversight hassles



Add-On Participation Timeline

- Add-On partners can opt in/out at 1-year increment
 - Join with data purchase:
 - For survey data, 6+ months before data collection begins
 - For OD data, anytime
 - Join without data purchase – anytime
- Partners are encouraged to make a pledge NOW via the Transportation Pooled Fund weblink:
<http://www.pooledfund.org/Details/Solicitation/1466>
- After the weblink is closed, you can still join by emailing Danny Jenkins at Daniel.Jenkins@dot.gov



Questions?



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