NYMTC 2010-11 Regional Household Travel Survey

Survey Overview



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Overview

- Purpose
- > Study Area
- Survey Specifications
- > Sample Plan
- Project Status



Purpose

- Current /detailed measures of household travel behavior in NY/NJ/CT metro region
- Estimation of NYBPM
- Support regional transportation planning analysis

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Study Area

New York :

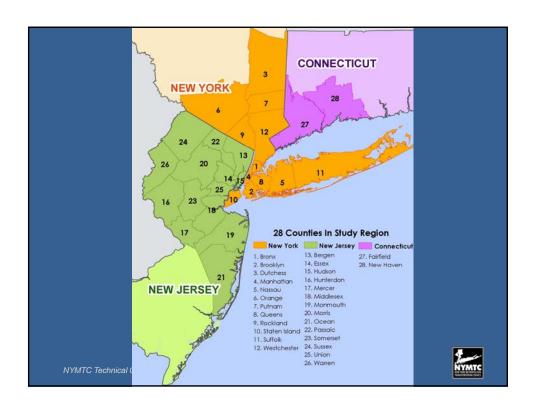
Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, Suffolk, Westchester

New Jersey:

Bergen, Essex, Hudson, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Sussex, Union, Warren

Connecticut: Fairfield, New Haven





Survey Specifications

- Address based sample frame
- > Total Sample size: 18,800 HHs
 - GPS Component 1,880 HHs
 - 3,800 HHs under a separate contract with NJTPA
- > 9 Months (typical weekday schools open)
- 24 hour period average weekday

Survey Specifications

- > Incentives:
 - > Pre-test: Unmatched (\$50/HH), GPS (\$25/HH)
 - Main Survey: Unmatched (\$50/HH), GPS (\$25/HH) Matched: (\$250 monthly raffle)
- > Other Languages: Spanish, Russian, Chinese
- ➤ Multiple modes of data collection that permits household recruitment and travel day information retrieval :
 - Mail
 - Telephone
 - Web

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Survey Specifications

- Data:
 - Household income, # persons, # veh, primary language, landline/cell, etc.
 - Person demographics such as age, gender, work, school, disability status, etc.
 - Trip/Activity Variables Places visited, activities, mode usage, etc.
 - Vehicle vehicle year, fuel type, body type, E-ZPass Tag, etc.



Survey Specifications

- Seven Data Collection Stages
 - Sample Generation and Geocoding
 - Advance Mailing
 - Household Recruitment
 - Diary or GPS Placement
 - Reminder Messages
 - Retrieval Calls for Diary Households
 - GPS-Prompted Recall

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Sample Plan

- ➤ Minimum Sample Size 271 HHs for County (+/- 5 percent at the 90% Confidence Limit for a proportional measure)
 - → Ensure that a basic profile of travel by the residents of each county can be developed from the data with what will be accepted as a reasonable levels of sampling errors



Sample Plan

- ➤ Aim to over-sample 3 types of travel behavior for increasing value of the data for modeling
 - 1. Longer distance trips within the region (i.e., Very long greater than 50 miles, Long greater than 20 miles),
 - 2. Work trips to Manhattan and to counties other than where the worker resides,
 - 3. Selected travel modes that are important to model accurately but with relatively small overall shares, including: walk-to-premium bus, drive-to-premium bus, walk-to-ferry, drive-to-ferry, walk-to-LRT, drive-to-LRT, and drive-to-Subway/PATH.

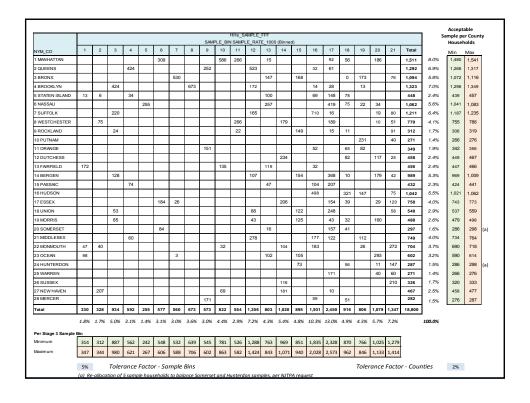
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Sample Plan

- Composition of two dimensions:
 - 1) by Jurisdiction (i.e., counties) &
 - 2) by Sub-areas (i.e., groups of NYBPM Transportation Analysis Zones)
- Sub-areas : Two different classifications of sub-areas applied in the NYBPM for the modeling of regional travel
 - 1) 11 Area Types
 - 2) 4 Transit Accessibilities
- → 44 groups of sub areas transformed to 21 Bins from combining groups of similar oversampling rates.





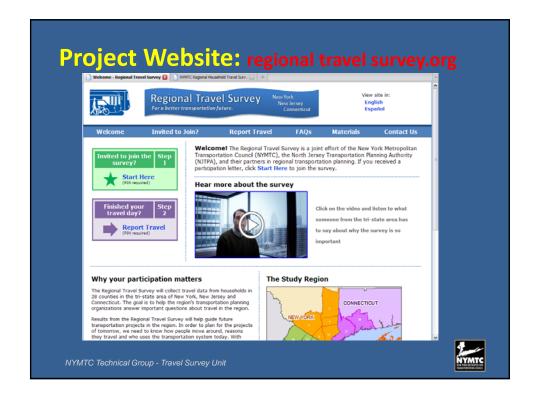
Project Coordination & Mgmt Project Team:

- - NYMTC

 - Consultant Team: NuStats, GeoStats, PB, DataSource.
- Technical Advisory Committee: National Survey Experts
- Steering Committee: NYMTC members, stakeholders







Project Status

- Pre-Test: mid-April to mid-June 2010
 - Total Recruited: 1,187 HHs (173 GPS HHs)
 - Total Retrieved: 719 HHs (115 GPS HHs) with 1,339 Persons
 - Pilot Non-Response Follow-Up (NRFU)
- ➤ Main Survey: September 2010 to June 2011
 - As of Dec 21 2010
 - Total Recruited: 6,875 HHs
 - Total Retrieved: 3,114 HHs (including 347 GPS HHs)
 - Interim Data delivered:
 - ✓ 1,919 HHs (168 HHs for GPS Samples) & 3,806 Persons retrieved
 - ✓ Recruitment: 236 (12.3%) by Web, and 1683 (87.7%) by CATI
 - Retrieval: 250 (13%) by Web, 990 (51.6%) by CATI, and 679 (35.4) by Mail Back

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Questions??

