NHTS


## INTRODUCTION

The NHTS series is a rich source of data regarding travel trends. Like most travel surveys, the NHTS documents the who, what, where, when and how of daily household and personal travel for an assigned 24-hour period.

The NHTS documents both actual travel that took place on the assigned travel day as well as details about typical travel "last week" or "in the past month."

The information provided in response to these questions about "typical" travel provide insights into how the actual commute trip varies in terms of mode or travel time. In addition, questions about non-auto modes can help monitor emerging trends and patterns for travel by walk, bike, transit and rideshare.

## RESEARCH QUESTIONS

In this poster, three questions are considered:

1. How does the "typical" commute last week compare to the "actual" commute reported on the travel day in terms of travel mode and travel time?
2. How well do reports of "usually" working from home match actual working from home on the travel day? And how does weekday travel vary between those who usually work from home and those who do not?
3. What can be gleaned from the questions about walking and biking in the past week and transit and rideshare usage in the past month?

## Actual vs. Typical Commute



Typically Work from Home

| Usually work from home | - $12 \%$ of workers are homebased | Trip Destination Purpose | Reported Activities (Mon-Fri) |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Home-based | Commuter |
|  |  | Work from home (paid) | 7.7\% | 0.5\% |
| Home-based workers | - $81 \%$ of home-based workers report trips on their travel day | Work | 11.6\% | 25.9\% |
|  |  | Work-related meeting / trip | 4.0\% | 2.1\% |
|  |  | Home (at home activities) | 25.2\% | 33.2\% |
|  |  | Serve Passenger | 10.0\% | 7.4\% |
| Average daily weekday person trip rates: | -3.87 for home-based workers <br> -3.90 for non-home-based workers | Shop/ Pers Bus/ Errands | 26.4\% | 18.9\% |
|  |  | Social/Rec | 8.9\% | 7.2\% |
|  |  | Other | 6.3\% | 4.7\% |
|  |  | All Trips | 100.0\% | 100.0\% |

Typical Travel in General

Walk
Urban Dwellers, ages 18-34,
Students, in excellent health

Transit
Urban Dwellers, ages 14-17, in excellent health

## Bike

Urban Dwellers, ages 0-13, in excellent health

## Rideshare

Urban Dwellers, ages 18-34, workers, in excellent health

## RESULTS

1. The typical vs. actual commute mode was fairly consistent but travel times less so.

- Walk commutes showed the greatest variation while auto showed the least
- The shortest commutes ( $>30 \mathrm{~min}$ ) matched $70 \%$ of the time while longer commutes matched about $50 \%$ of the time.

2. Those who usually telework are more likely to work from home on the travel day, although this group reports similar levels of travel as the more traditional workers.
3. The use of other typical modes is reported more by urban dwellers, those not retired, and those reporting to have excellent or very good health.

## FUTURE RESEARCH

Additional research is needed to better understand where and how typical travel differs from actual travel. One approach might be to set a flag in the survey program to activate when the actual reported commute mode differs from the typical mode in order to ask why.
This research suggests that the level of trip-making among teleworkers is the same as that of workers who commute to a work location, only comprised of different activities. More study is needed to better understand this phenomenon.
Additional research is needed to better word questions about typical travel in order to strengthen the ability to compare typical vs. actual for these less frequent modes.

