

CTPP Crash Course

Census Transportation Planning Products program

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What is the CTPP?

An AASHTO sponsored data program funded by member State transportation agencies

Operates with support from FHWA, OST-R, FTA, Census Bureau, MPOs and TRB

The program includes:

- Data products**

- Training and technical assistance**

- Research**

Designed for the transportation community

Guided by an AASHTO Oversight Board

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CTPP Data Products

CTPP data products use data from the US Census Bureau American Community Survey (ACS)

The ACS replaced the decennial census “long form” and requires accumulation of data over multiple years for small area tabulation

1 Year of data for places with **65,000+ people**

~~**3 Years** of data for places with **20,000 + people**~~

5 Years of data for smaller geographic areas,
e.g. **Tracts and Block Groups**

Applications of CTPP Data Products

- **Long Range Planning/TIP**
- **Performance measurement**
- **Modal share analysis**
- **FTA New Starts/Small Starts**
- **Travel Demand Modeling and Forecasting**
- **Policy Impact Analysis**
- **Livability analysis**
- **Corridor planning**
- **Air quality modeling**
- **Trend analysis**
- **Descriptive statistics**
- **Title VI**
- **Environmental justice**
- **Factoring/Adjusting surveys**

23 USC 134; 49 USC 5303; and 23 CFR 450.316-322.
MPO mandates

CTPP Data Concepts

Summarized data by
Place of Residence
Place of Work
Flows from Home to Work



Custom Geography (Local TAZs)

Unique Universes (e.g. workers in HHs)

Some Key Data Items Include

- Data on **Households**
 - Size, income, vehicles per household
- Data on **Workers**
 - Age and gender, occupations, earnings
- Data on **Journey to Work**
 - Usual mode to work, commuting time, work departure time
- Data on **Workplaces**
 - Work locations, times of arrival at work

5-year Geography and Flows

FROM / Residence	TO / Workplace
State	State
State-County	State-County
State-County-MCD	State-County-MCD
State-County-Place	State-County-Place
MSA	MSA
State-County	State-Place
State-County-MCD	State-Place
State PUMA (2000)	State-Place
PUMA (2000)	POW PUMA (2000)
Tract	Tract
TAD	TAD
Locally Defined Small Area	Locally Defined Small Area
TAD	Locally Defined Small Area
Locally Defined Small Area	TAD
State-Place	Locally Defined Small Area
Locally Defined Small Area	State-Place

- **Asymmetrical Flows (in red)**
- **Small Areas defined by MPOs in MPO areas and States Elsewhere**
- **Tracts are Defaults for Small Areas**
- **Default TADs defined by AASHTO**
- **UZA tables for Part 1 ONLY**
- **MCD Only States**

CT	ME	MA
MI	MN	NH
NJ	NY	PA
RI	VT	WI

What we ended up with – for 5 year Tables

Eight Variables crossed with Means of Transportation to work (MOT)

- Age of Worker
- ~~Class of Worker~~
- ~~Disability Status~~
- ~~Earnings~~
- Household Income
- ~~Poverty Status~~
- ~~Industry~~
- ~~Occupation~~
- ~~Length of U.S. Residence~~
- Minority Status y/n
- Time Leaving Home
- Time Arriving (workplace)
- Travel Time
- Vehicle Availability
- Workers in Household
- Age of Youngest Child

...and

Collapsing of the Modes

Total	Total	Total	Total	Total
Drove Alone	Drove Alone	Drove Alone	Drove Alone	Drove Alone
2 Person Carpool	2 Person Carpool	Carpooled	2 Person Carpool	Carpooled
3 Person Carpool	3+ Person Carpool		3+ Person Carpool	
4-person carpool				
5/6-person carpool				
7+ person carpool				
Bus/Trolley Bus	Bus/Trolley Bus	Public Transportation	Public Transportation, Bicycle/Walked, Taxicab/Motorcycle Other Means	Everything Else (incl Worked at Home)
Streetcar/trolley	Streetcar, Trolley, Subway, Elevated			
Subway/Elevated	Railroad/Ferryboat			
Railroad				
Ferryboat				
Bicycle	Bicycle	Bicycle/Walked		
Walked	Walked			
Taxicab	Taxicab/Motorcycle or Other Means	Taxicab/Motorcycle or Other Means		
Motorcycle				
Other Means				
Worked at Home	Worked at Home	Worked at Home	Worked at Home	
18 Modes	11 Modes	7 Modes	6 Modes	4 Modes

So What Did We Do?

NCHRP Web Report 180 (\$550K)

Producing Transportation Data Products from the ACS that Comply With Disclosure Rules

5-year CTPP will have two types of tables







Tables that passed Census Rules

Tables with Perturbation done to them

Privacy Protection

http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_w180.pdf

Table Summary using 5-year Table list

	TAZ/BG	Tract	TAD	Place	County	PUMA	State
Part 1							
Regular	111						
Perturbed	77						
Part 2							
Regular	50						
Perturbed	65						
Part 3							
Regular	2						
Perturbed	38						

Tables Using Perturbed Data Set

Means of transportation Aggregate Vehicles Used
 Aggregate Travel Time Mean HH Income
 Aggregate HH Income Aggregate Carpools
 Almost all Part 3 Tables All Aggregate/Mean Tbls

SOFTWARE!

- <http://ctpp.transportation.org/Pages/5-Year-Data.aspx>
- Free
- No log in required (but useful and recommended)
- 350GB of data!
- Produced inexpensively...

Next CTPP Data Product

Five year Tables (2012 to 2016)

Same Structure as 2006 to '10 CTPP

Same Software with Enhancements

No TAZ changes

Available Late 2018

Some Table Changes (additions and subtractions)

Next CTPP Data Product (Looking Closer)

Census Bureau Directives

Reduce table request by 66% as compared to '06 to '10 product

Limit the number of tables at small geography (TAZs and Tracks)

Still needs Disclosure Review Board (DRB) approval

What We Did

- Convened a Users' Subcommittee**
- Reviewed every table (multiple times)**
- Solicited community input**
- Surveyed users**
- Discussed and debated**
- Developed proposal**
- Shipped to Census Bureau**

What We Requested

The Box Score

Number of Tables

	06-10 Data Product	Deleted from 06-10 Data Product	Included in Census Bureau Request	Created by CTPP software	Large Areas Only	All Areas	New Tables
Part 1	187	85	104	12	48	56	2
Part 2	116	73	48	9	17	30	5
Part 3	41	18	24	1	11	13	1
Total	344	176	176	22	76	99	8

What Does this Mean?

The New and Improved Stuff

Added Flows from Places to Counties

Added Several Tables

Average HH Size (p1)

Poverty by Mode (p1, p2)

**Class of Worker by [Industry, Time
Arriving, Mean TT, Mode] (p2)**

**Vehicles available by Number of
Workers in HH (p3)**

CTPP Users Conference

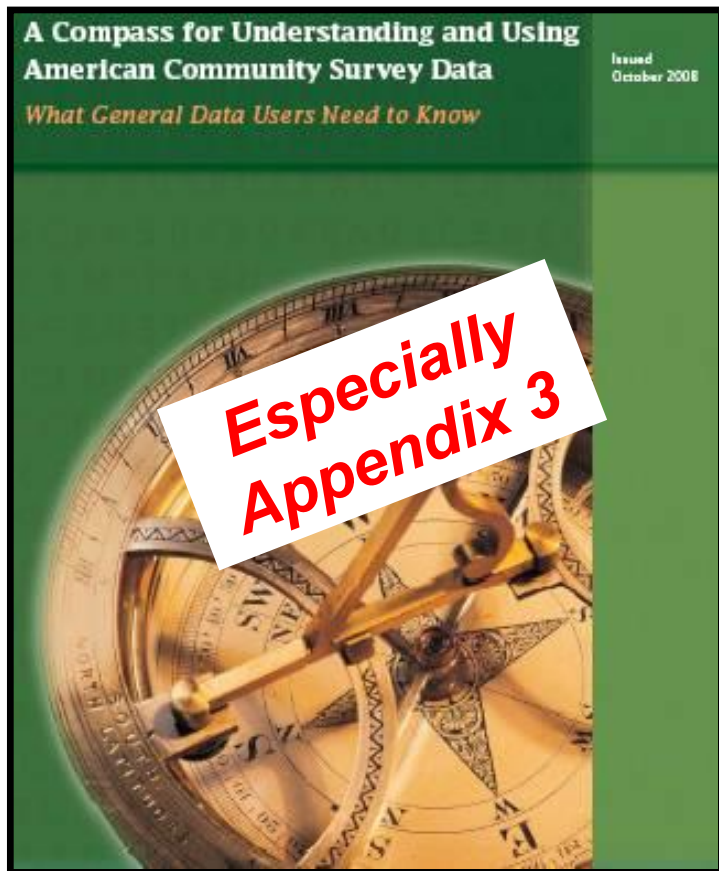
**Keep you eye out for our
2017 (Fall) CTPP Users
Conference**



Subscribe to the CTPP Users ListServ

<http://trbcensus.com/maillist.html>

The ACS compass handbooks



A Compass for Understanding And Using ACS Data

- Set of user-specific handbooks
- Train-the trainer materials
- E-learning ACS Tutorial
- Annotated Presentations

http://www.census.gov/acs/www/guidance_for_data_users/compass_products/

CTPP List Serve

Census Data for Transportation Planning

TRB Subcommittee on Census Data for Transportation Planning, ABJ30(1)

Encouraging Research and Innovation in Transportation Since 1920



TRB
.org



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Welcome to our web site. We hope you find this site fun, informative and above all useful. We are organized under the [Committee on Urban Transportation Data and Information Systems](#) of the Transportation Research Board. We are very interested in census data matters as they relate to transportation planning. As a result, our focus spans the entire spectrum of census related activities including applied uses of the data, the content of censuses, collection procedures and dissemination programs all within the context of past, present and future censuses. This site was developed to help provide a forum for those with an interest in transportation planning and census data.

What's New

- [Most recent CTPP Newsletter \(PDF only\)](#) [01-May-2013]
- [Presentations from 2013 Annual Meeting](#) [27-January-2013]

<http://trbcensus.com>

“Status Report” newsletter

Census Transportation Planning Products (CTPP)
<ul style="list-style-type: none">• Data Products• Training• Articles• CTPP Status Report• FAQ• Contacts• Related Links• Archives
Environmental Justice
Longitudinal Employment and Household Dynamics (LEHD)
Census Urbanized Areas and MPO/TMA Designation
Standard Decennial Census Products
Archives
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For more information,

CTPP Status Report

The "Status Report" is a newsletter developed by the CTPP Planning Group, friends and anyone else wishing to write about the Census Transportation Planning Products, its use or any other census data for transportation planning issues. Its purpose is to inform the transportation planning community on matters relating to the developments of the CTPP and other census data issues of relevance to their needs.

PDF files can be viewed with the [Acrobat® Reader®](#)


[Index of Articles in the Previous Status Reports](#)

- Current (April 2015) in [HTML](#) or [PDF](#) (427 KB)
- December 2014 in [HTML](#) or [PDF](#) (857 KB)
- September 2014 in [HTML](#) or [PDF](#) (280 KB)
- May 2014 in [HTML](#) or [PDF](#) (454 KB)
- December 2013 in [HTML](#) or [PDF](#) (2 MB)
- October 2013 in [HTML](#) or [PDF](#) (159 KB)
- May 2013 in [HTML](#) or [PDF](#) (202 KB)
- January 2013 in [HTML](#) or [PDF](#) (389 KB)
- September 2012 in [HTML](#) or [PDF](#) (137 KB)
- May 2012 in [HTML](#) or [PDF](#) (951 KB)
- January 2012 in [HTML](#) or [PDF](#) (375 KB)

http://www.fhwa.dot.gov/planning/census_issues/ctpp/status_report/

<http://www.trbcensus.com/newsletters.html>

FHWA website



Census Transportation Planning Products

American Community Survey

Census Transportation Planning Products (CTPP)

- Data Products
- Training
- Articles
- CTPP Status Report
- FAQ
- Contacts
- Related Links
- Archives

Environmental Justice

Longitudinal Employment and Household Dynamics (LEHD)

Census Urbanized

FHWA → Planning → Census Issues → CTPP → Data Products

Census Transportation Planning Products (CTPP) 5-Year ACS 2006-2010

Excel files can be viewed with the [Excel Viewer](#)

- [MS Excel 110 KB](#)
- [Read Me File](#)
- [Tabulations -- Part 1, Residence-Based Tables](#)
- [Tabulations -- Part 2, Workplace-Based Tables](#)
- [Tabulations -- Part 3, Worker Home-to-Work Flow Tables](#)
- [GEOGRAPHY Summary Levels and Geo-Components Definitions](#)
- [Universe Definitions](#)
- [Variable Recode Definitions](#)

http://www.fhwa.dot.gov/planning/census_issues/ctpp/

AASHTO website

AASHTO
THE VOICE OF TRANSPORTATION

CTPP

Census Transportation Planning Products

CTPP

- CTPP Oversight Board Roster
- 5-Year-Data
- 5-Year-Info
- Commuting in America
- Transportation Profiles ▶
- 2005 TRB Conference Census Data
- Training Resources ▶
- E-Learning Modules
- Transportation Analysis Zones (TAZ) ▶
- CTPP Oversight Board ▶
- CTPP Board Subcommittee Business

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WELCOME TO THE CENSUS TRANSPORTATION PLANNING PRODUCTS PROGRAM CTPP

Find us on Facebook

Census data on demographic characteristics, home and work locations and journey to work travel flows are key inputs to a variety of state, regional and local transportation policy and planning efforts. They also support corridor and project studies, environmental analyses and emergency operations management.

In 1990, 2000, and again in 2006, AASHTO partnered with all of the states on pooled fund projects to support the development of special census products and data tabulations for transportation. These census transportation data packages have proved invaluable in understanding characteristics about where people live and work, their journey to work commuting patterns and the modes they use for getting to work.

- [5-year Info](#)
- [2006 - 2010 Transportation Profiles](#)
- [CTPP e-Learning Modules](#)
- [TAZ Delineation Webinar](#) from February 25, 2011
- [CTPP 3-Year Data Based On 2006 - 2008 ACS](#)
- [CTPP Mid Program Report](#)
- [Transportation Profiles](#)
- [TAZ FAQs and other TAZ Information](#)
- [2005 TRB Conference Census Data for Transportation Planning](#)
- [CTPP2000 Training Materials](#)
- [Census Transportation Planning Products \(CTPP\) from the American Community Survey - FHWA Transportation](#)

<http://ctpp.transportation.org/>

Training Materials

AASHTO CTPP Website

<http://ctpp.transportation.org/Pages/trainingresources.aspx>

E-Learning

<http://ctpp.transportation.org/Pages/elearningmodules.aspx>

Recorded Webinars

<http://ctpp.transportation.org/Pages/webinardirectory.aspx>

CTPP websites

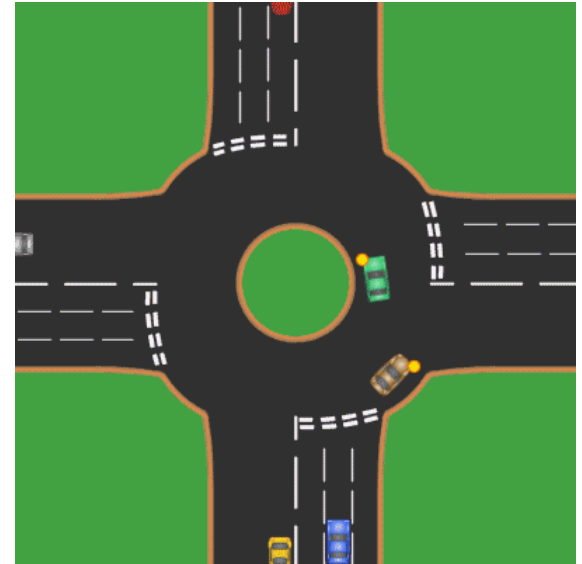


http://www.fhwa.dot.gov/planning/census_issues/ctpp/

<http://www.TRBcensus.com>

<http://ctpp.transportation.org>

CTPP Questions



Penelope Weinberger – pweinberger@ashto.org

2016 NHTS

- Address-based Sample
- Use of emerging modes such as Uber and Lyft.
- Walk and bike from the perspective of health benefits.
- Changed the definition of a complete household to be one where 100% of all household members reported their travel.
- Varying sampling frequency to emphasize weekday vs weekend travel.

2016 NHTS Timeline

Activity	Date
FHWA starts internal planning process	Jan 2011
Preliminary planning, investigate using ABS sample	Jul 2011
Add-on recruitment initiated	Feb 2013
RFP issued	Jul 2014
Survey contract awarded to Westat	Sep 2014
NHTS Add-on Coordination Team Established	Sep 2014
Preliminary Survey Plan	Nov 2014
Sample design and Field Materials	Jan -Apr 2015
OMB package – DOT review	May - Jul 2015
Finalize Pretest questionnaire	Jul 2015
OMB package – OMB review	May - Nov 2015
Develop Internet Retrieval Survey Software	Nov 2015–Feb 2016
Pretest	Nov 2015–Jan 2016
Full Survey	Apr 2016 – Apr 2017
NHTS Task Force – e-circular summarizing the status, approach and expected content of the new NHTS data	Jan 2017
Release of 2016 NHTS – full dataset, each add-on	TBD