

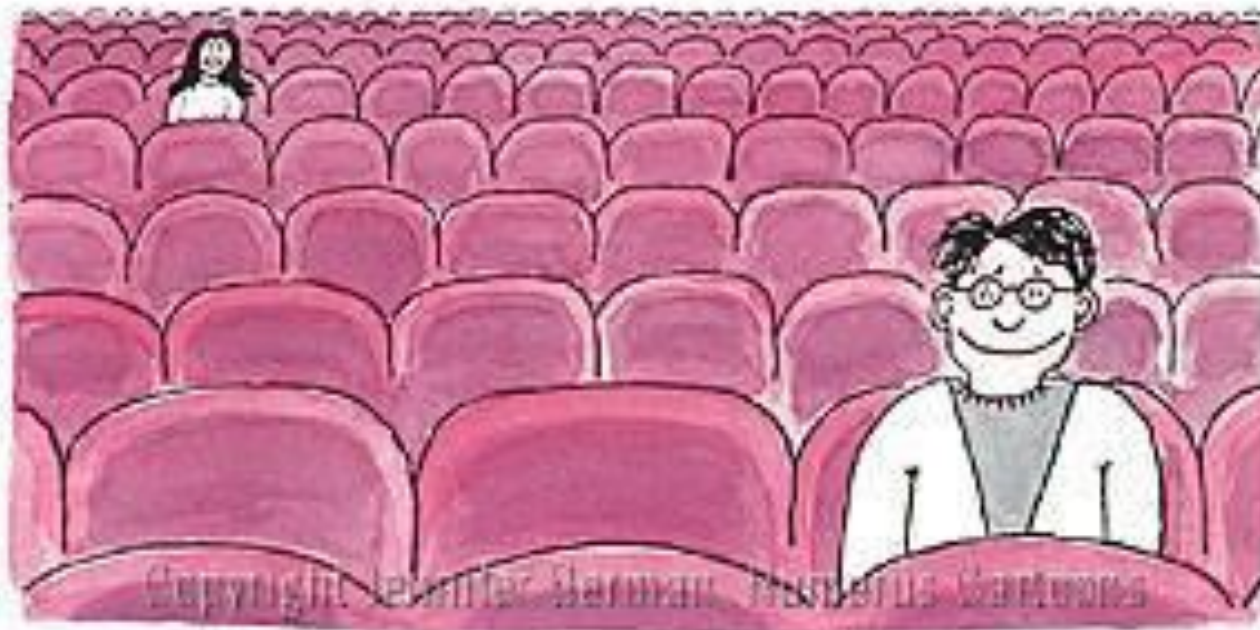
CTPP Crash Course

Census Transportation Planning Products program

*Dr. Lawson
CTPP SME
SUNY Albany
7/17/2019
NYSAMPOS*



NYSAMPOs



What is the CTPP?

AASHTO sponsored Technical Services Program funded by member State Transportation agencies

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

The CTPP Program includes:

Data Products

Training and Technical Assistance

Research and Outreach

Designed for the
Transportation Community
by the
Transportation Community

But what does that mean?

- Based on ACS
- Ground truth
- A resource of adequate sample size to compare, validate, calibrate, expand your data/survey/model
- Workplace (daytime) data by demography
- Flow from home to work by mode and demography
- Has error

CTPP Data Products

Derived from
**US Census Bureau's
American Community
Survey (ACS)**

CTPP Program includes:
Data Products
Training and Technical Assistance
Research and Outreach

ACS accumulates data over multiple months and years

Areas over 65,000 people **Annual Data**

Areas over 20,000 people **Supplemental Estimates** *new in 2016*

Tracts and Block Groups **5 Years of data**

Transformation over time

	Buyers/Users	Direct Cost	Tables
1960	OMB	???	???
1970	112	\$0.6 M	43
1980	152	\$2.0 M	82
1990	All States and MPOs	\$2.5 M	120
2000		\$3.0 M	203
2005 +	AASHTO Consolidated Purchase	\$5.8 M	Multiple Products
2013	Most States	\$4.3 M	Robust



THE American Community Survey

U.S. DEPARTMENT OF COMMERCE
Economic and Statistics Administration
U.S. GOVERNMENT PRINTING OFFICE

This booklet shows the content of the American Community Survey questionnaire.

Please complete this form and return it as soon as possible after receiving it in the mail.

This form asks for information about the people who are living or staying at the address on the mailing label and about the house, apartment, or mobile home located at the address on the mailing label.



If you need help or have questions about completing this form, please call 1-800-354-7274. The telephone call is free.

Telephone Device for the Deaf (TDD):
Call 1-800-922-6222. The telephone call is free.

¡NECESITA AYUDA! Si usted habla español y necesita ayuda para completar su cuestionario, llame sin cargo alguno al 1-877-833-9625. Usted también puede pedir un cuestionario en español o completar su cuestionario por teléfono con un entrevistador que habla español.

For more information about the American Community Survey, visit our web site at <http://www.census.gov/acs/www/>

Start Here

- ➔ Please print today's date.

Month Day Year

- ➔ Please print the name and telephone number of the person who is filling out this form. We may contact you if there is a question.

Last Name
First Name MI
Area Code + Number -

- ➔ How many people are living or staying at this address?

- **INCLUDE** everyone who is living or staying here for more than 2 months.
- **INCLUDE** yourself if you are living here for more than 2 months.
- **INCLUDE** anyone else staying here who does not have another place to stay, even if they are here for 2 months or less.
- **DO NOT INCLUDE** anyone who is living somewhere else for more than 2 months, such as a college student living away or someone in the Armed Forces on deployment.

Number of people

- ➔ Fill out pages 2, 3, and 4 for everyone, including yourself, who is living or staying at this address for more than 2 months. Then complete the rest of the form.

FORM ACS-18P0020 (2/06)

DATE 10/01/07

A brief history, Pop Quiz

- When did the Journey to Work Question first appear on the Census Form?
 - ❖ *1960*
- How often is the Census collected?
 - ❖ *decennially*
- How about the American Community Survey (ACS)
 - ❖ *Continuously!*
- Without data you're just
 - ❖ *Another person with an opinion*
 - » W. Edwards Deming

If this person worked last week, answer questions P28 and P29.

↓
P28. What city and county did he work in last week?

If he worked in more than one city or county, give place where he worked most last week.

a. City or town

b. If city or town—Did he work inside
the city limits? { Yes..
No..

c. County State

↓
P29. How did he get to work last week?

(Check one box for principal means used last week)

Railroad Taxicab Walk only

Subway or elevated Private auto or car pool Worked at home

Bus or streetcar Other means—Write in:
.....

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

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

Applications of CTPP Data Products

- **Comparative analysis**
- **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**

Guided by an AASHTO Oversight Board

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Subject Matter Experts



Census Transportation Planning Products

Technical Service Program (2020–2024)

CTPP Proposed Funding by State by Population (at 1.7¢)

State	2017 Population Estimate*	CTPP Five Year Fund Commitment	State	2017 Population Estimate*	CTPP Five Year Fund Commitment
Alabama	4,874,747	\$84,012.02	Montana	1,050,493	\$18,104.33
Alaska	739,795	\$12,749.72	Nebraska	1,920,076	\$33,090.84
Arizona	7,016,270	\$120,919.31	Nevada	2,998,039	\$51,668.59
Arkansas	3,004,279	\$51,776.13	New Hampshire	1,342,795	\$23,141.90
California	39,536,653	\$681,379.82	New Jersey	9,005,644	\$155,204.44
Colorado	5,607,154	\$96,634.42	New Mexico	2,088,070	\$35,986.07
Connecticut	3,588,184	\$61,839.23	New York	19,849,399	\$342,087.12
Delaware	961,939	\$16,578.18	North Carolina	10,273,419	\$177,053.44
Dist. of Columbia	693,972	\$11,960.00	North Dakota	755,393	\$13,018.54
Florida	20,984,400	\$361,647.88	Ohio	11,658,609	\$200,925.98
Georgia	10,429,379	\$179,741.27	Oklahoma	3,930,864	\$67,745.02
Hawaii	1,427,538	\$24,602.38	Oregon	4,142,776	\$71,397.14
Idaho	1,716,943	\$29,590.02	Pennsylvania	12,805,537	\$220,692.29
Illinois	12,802,023	\$220,631.73	Rhode Island	1,059,639	\$18,261.96
Indiana	6,666,818	\$114,896.81	South Carolina	5,024,369	\$86,590.63
Iowa	3,145,711	\$54,213.59	South Dakota	869,666	\$14,987.94
Kansas	2,912,122	\$50,205.14	Tennessee	6,215,984	\$115,744.14

Arizona	7,016,270	\$120,919.31	Nevada	2,998,039	\$51,668.59
Arkansas	3,004,279	\$51,776.13	New Hampshire	1,342,795	\$23,141.90
California	39,536,653	\$681,379.82	New Jersey	9,005,644	\$155,204.44
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Iowa	3,145,711	\$54,213.59	South Dakota	869,666	\$14,987.94
Kansas	2,913,123	\$50,205.14	Tennessee	6,715,984	\$115,744.14
Kentucky	4,454,189	\$76,764.07	Texas	28,304,596	\$487,805.09
Louisiana	4,684,333	\$80,730.40	Utah	3,101,833	\$53,457.39
Maine	1,335,907	\$23,023.19	Vermont	623,657	\$10,748.19
Maryland	6,052,177	\$104,304.01	Virginia	8,470,020	\$145,973.43
Massachusetts	6,859,819	\$118,223.01	Washington	7,405,743	\$127,631.54
Michigan	9,962,311	\$171,691.76	West Virginia	1,815,857	\$31,294.72
Minnesota	5,576,606	\$96,107.95	Wisconsin	5,795,483	\$99,880.11
Mississippi	2,984,100	\$51,428.37	Wyoming	579,315	\$9,983.99
Missouri	6,113,532	\$105,361.41	Puerto Rico	3,337,177	\$57,513.34
Grand Total: \$5,671,000					

* Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2017. Source: U.S. Census Bureau, Population Division.

What is in the New Data

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)

Number of Tables Deleted*	Number of Tables Retained at Large Geography Only	Number of All Geography Tables Retained	Total number of tables retained
176	76	99	168
85	48	56	102
73	17	30	43
18	11	13	23

has directed us to request a special tabulation for our next 5-year data third (1/3) the size of our current special tabulation. Additionally, we are er of tables that can include all levels of geography; most tables will be summary levels of place, MCD (for strong MCD states), county, PUMA, rincipal city), and nation and the TAD custom geography (Large Geographies ables will also be available at Tract and TAZ (All Geographies).

posed elimination: tables that had been accessed by CTPP Data Access times or fewer by Oct 6 2015, and had 5 or more recommendations for ab subcommittee.

ble that did not fail that criteria, but had two or fewer recommendations to act and TAZ) geography was recommended for retention at large geo only.

leted includes tables that are to be added back in the software, derivable les.


ur feedback at: pweinberger@ashto.org

Residence	Geo Level	Number
Nation	12*	
State	603*	
County	3221	
MCD	11958	
Place	29514	
MSA	374	
Principal City	692	
PUMA	2101	
UA	3625	
Tract	74002	
TAD	10867	
TAZ	217526	

Workplace	Geo Level	Number
Nation	10*	
State	499*	
County	3221	
MCD	11958	
Place	29514	
MSA	374	
Principal City	692	
PUMA	1263	
UA	0	
Tract	74002	
TAD	20867	
TAZ	217526	

*includes geo components

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



CTPP

Home

Upcoming Events

Commuting in America Request for Research Proposals

Policy Change on Small Geography

PSAP Update Webinar (Feb. 7, 2019)

PSAP Update Webinar (Oct. 2018)

PSAP Update Webinar (Apr. 2018)

CTPP Data

2012-2016 5-Year CTPP

2006-2010 5-Year CTPP

2000 CTPP

1990 CTPP

Transportation Profiles

Training & Research Resources

E-Learning Modules

Tutorial Videos on CTPP Software

Tutorial Videos on Census Data

WELCOME TO THE CENSUS TRANSPORTATION PLANNING PRODUCTS PROGRAM (CTPP)

The CTPP is a State DOT-funded, cooperative program that produces special tabulations of American Community Survey (ACS) data that have enhanced value for transportation planning, analysis, and strategic direction. Additionally, the program provides universal access to that data, funds and conducts research, and provides training and technical assistance to the transportation planning community, all to increase understanding of the needs of the traveling public in support of policy and programming decision making.

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, 2006, and again in 2014, AASHTO partnered with all of the states 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.

For the latest on CTPP data (2012-2016), click the icon below:



CTPP Status Reports are newsletters developed by the CTPP Planning Group, friends, and anyone else wishing to write about CTPP, its use, or any other relevant issues. Its purpose is to inform the transportation planning communities on matters relating to the developments of the CTPP. Click here to the inventory of the CTPP Status Reports

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

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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[TAZUP / WORKUP](#)

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>

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>

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