

CTPP Crash Course

Census Transportation Planning Products program

What is the CTPP?



May 31, 2012
CA State Data Center Meeting
Kristen Rohanna

*(On behalf of Penelope Weinberger,
CTPP Program Manager, AASHTO)*

History

Background

**Organizational
Structure**

Data

Resources

What is the CTPP

CTPP is an umbrella program of

1. Data Products
2. Custom Data Tabulations
3. Training
4. Technical Assistance
5. Research

for the transportation community



CTPPs main focus is on data from U.S. Census Bureau and the American Community Survey (ACS)

Census Transportation Planning Products

Where it all began ~ 1960, JTW Question Arrives

OMB required-
Metro Areas

Coded to City or
County

No Special
Tabulations

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 <input type="checkbox"/>	Taxicab <input type="checkbox"/>	Walk only <input type="checkbox"/>
Subway or elevated <input type="checkbox"/>	Private auto or car pool <input type="checkbox"/>	Worked at home <input type="checkbox"/>
Bus or streetcar <input type="checkbox"/>	Other means—Write in:	



1970--First Transportation Tables

That's a picture of Alan Pisarski

Urban Transportation Planning Package

FHWA provided
table specs

First DOT funding

43 Tables,
“Caveat Emptor”

112 Purchasers, Local TAZs

Address coding (DIME) Block level

c. Where did he work last week?
If he worked in more than one place, print where he worked most last week.
If he travels about in his work or if the place does not have a numbered address, see instruction sheet.

(1) Address (Number and street name) _____

(2) Name of city, town, village, etc. _____

(3) Inside the limits of this city, town, village, etc.?
☐ Yes
☐ No

(4) County _____

(5) State _____

(6) ZIP Code _____



Called UTPP

Summarized data by
Place of Residence
Place of Work



Flows between Home and Work

Custom Geography (Local TAZs)

Unique Universes (e.g. workers in HHs)

Designed and paid for by transportation planners for transportation planners

1980--UTPP Expands

Census Bureau hired
JTW staff

- better delivery
- geo QC

Work trip imputation
(allocation)

150 Buyers

More detail data

(more modes, vehicle occupancy, travel time)

24a. Last week, how long did it usually take this person to get from home to work (one way)?

Minutes

b. How did this person usually get to work last week?
If this person used more than one method, give the one usually used for most of the distance.

<input type="radio"/> Car	<input type="radio"/> Taxicab
<input type="radio"/> Truck	<input type="radio"/> Motorcycle
<input type="radio"/> Van	<input type="radio"/> Bicycle
<input type="radio"/> Bus or streetcar	<input type="radio"/> Walked only
<input type="radio"/> Railroad	<input type="radio"/> Worked at home
<input type="radio"/> Subway or elevated	<input type="radio"/> Other — Specify _____

*If car, truck, or van in 24b, go to 24c.
Otherwise, skip to 28.*

1990- 2000

Census **T**ransportation **P**lanning **P**ackage is born

- Name changed from UTPP to CTPP
- Wall-to-Wall Coverage (AASHTO/NARC pooled fund)
- First state package
- More data (departure time, occupancy)
- Extraction software BTS CD release

- TRB Subcommittee (*est. 1998*)
- List Serve (*900 strong*)
- Enhanced TAZ Definition process
- Improved Extraction software
- Disclosure Rules Emerge!!!

2005--The Long Form goes away

Enter the ACS era...

- Continuous Survey Methodology
- Conducted Monthly
- About 1 in 40 Households Sampled per year
- 300,000 Households Sampled per month
- Same Transportation questions as 2000 Long Form
- 3 basic Period Estimates

Annual 65K+

3-year > 20K

5-year, Block Groups and up

Smaller sample, Margins of Error (MOE)



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

CTPP Fund Commitment

Alabama	\$86,952	Montana	\$18,324
Alaska	\$13,131	Nebraska	\$33,465
Arizona	\$125,564	Nevada	\$50,898
Arkansas	\$54,389	New Hampshire	\$26,212
California	\$720,140	New Jersey	\$170,604
Colorado	\$91,402	New Mexico	\$37,461
Connecticut	\$67,678	New York	\$367,828
Delaware	\$16,730	North Carolina	\$176,801
Dist. of Columbia	\$10,022	North Dakota	\$12,043
Florida	\$364,196	Ohio	\$218,994
Georgia	\$181,403	Oklahoma	\$67,943
Hawaii	\$25,362	Oregon	\$71,717
Idaho	\$28,704	Pennsylvania	\$238,069
Illinois	\$244,357	Puerto Rico	\$75,671
Indiana	\$120,924	Rhode Island	\$21,124
Iowa	\$56,940	South Carolina	\$84,121
Kansas	\$53,073	South Dakota	\$14,877
Kentucky	\$80,686	Tennessee	\$117,873
Louisiana	\$87,261	Texas	\$466,299
Maine	\$25,674	Utah	\$49,091
Maryland	\$111,708	Vermont	\$12,344
Massachusetts	\$125,792	West Virginia	\$34,603
Michigan	\$197,286	Virginia	\$151,535
Minnesota	\$102,546	Washington	\$123,758
Mississippi	\$56,212	Wisconsin	\$108,349
Missouri	\$112,032	Wyoming	\$9,835

**Cost
1.89 cents
per person**

**2010 pop
estimate
done in 2005**

**With “real”
2010 Census
pop
CA \$720,140**

CTPP Cost Estimates

State	Resident Pop (4-1- 2010)	2010 CTPP Cost	2005 CTPP Estimate	Change (savings)	Rank by Loss
California	37,253,956	\$704,099.77	\$720,140.00	-\$16,040.23	1
Michigan	9,883,640	\$186,800.80	\$197,286.00	-\$10,485.20	2
Florida	18,801,310	\$355,344.76	\$364,196.00	-\$8,851.24	3
Arizona	6,392,017	\$120,809.12	\$125,564.00	-\$4,754.88	4
New Jersey	8,791,894	\$166,166.80	\$170,604.00	-\$4,437.20	5
Maryland	5,773,552	\$109,120.13	\$111,708.00	-\$2,587.87	6
Minnesota	5,303,925	\$100,244.18	\$102,546.00	-\$2,301.82	7
Massachusetts	6,547,629	\$123,750.19	\$125,792.00	-\$2,041.81	8
Illinois	12,830,632	\$242,498.94	\$244,357.00	-\$1,858.06	9
New York	19,378,102	\$366,246.13	\$367,828.00	-\$1,581.87	10
Louisiana	4,533,372	\$85,680.73	\$87,261.00	-\$1,580.27	11
Indiana	6,483,802	\$122,543.86	\$120,924.00	\$1,619.86	40
Georgia	9,687,653	\$183,096.64	\$181,403.00	\$1,693.64	41
Pennsylvania	12,702,379	\$240,074.96	\$238,069.00	\$2,005.96	42
Tennessee	6,346,105	\$119,941.38	\$117,873.00	\$2,068.38	43
Oklahoma	3,751,351	\$70,900.53	\$67,943.00	\$2,957.53	44
Utah	2,763,885	\$52,237.43	\$49,091.00	\$3,146.43	45
South Carolina	4,625,364	\$87,419.38	\$84,121.00	\$3,298.38	46
Washington	6,724,540	\$127,093.81	\$123,758.00	\$3,335.81	47
Alabama	4,779,736	\$90,337.01	\$86,952.00	\$3,385.01	48
North Carolina	9,535,483	\$180,220.63	\$176,801.00	\$3,419.63	49
Colorado	5,029,196	\$95,051.80	\$91,402.00	\$3,649.80	50
Texas	25,145,561	\$475,251.10	\$466,299.00	\$8,952.10	51

CA
Overpaid
\$16,040

AASHTO CTPP Program

- All States + DC
- AASHTO Led
- Oversight Board
- Five Year period
~ 2011 (2012, now
2013)

Acquire Data and Develop Products	53%
Research, Training and Outreach	39%
Manage Program	5%
Board Discretion	3%
TOTAL	\$5,844,332

***Federal Technical Advisory Group
TRB Subcommittee -- List Serve
Quarterly Newsletter -- Outreach
Several Websites***

AASHTO CTPP Oversight Board (ACOB)

MPOs

Kristen Rohanna, SANDAG
Brian Lasagna, BCAG
Mell Henderson, MARC
Arash Mirzaei, NCTCOG
Guy Rousseau, ARC
Clara Reschovsky, MWCOCG
Bill Schaeffer, MATPB
MaryAnn Waldinger, COMPASS

States

Laine Heltebride, PA (Region I)
Greg Slater, MD (Region I)
Hui Wei Shen, FL (Region II)
Juyin Chen, VA (Region II)
Phillip Mescher, IA (Region III)
Cory Pope, UT (Region IV)
Ayalew Adamu, CA (Region IV)

Chair: Jennifer Toth, AZ (Region IV)

Vice Chair: Susan Gorski, MI (Region III)

AASHTO Liaison: Penelope Weinberger

17 voting members: 9 states and 8 MPOs

Consensus Decision Making

Ex Officio Members

Ken Cervenka, FTA
Ed Christopher, FHWA
Rich Denbow, AMPO
Alison Fields, Census Bureau
Matt Hardy, AASHTO
Jonette Kreideweis, Consultant
Brian McKenzie, Census Bureau
Elaine Murakami, FHWA
Janet Oakley, AASHTO
Alan Pisarski, Consultant
Steven Polzin, USF. CUTR
Melanie Rapino, Census
Nanda Srinivasan, TRB
Erika Young NARC
Liang Long, Technical Adjunct



ACS Transportation Data

Presenter
2012-06-12 21:31:03

The Census Bureau used two different forms to collect Census 2000 data. A short form with seven basic questions went to all households and a long form with these same questions and additional questions went to a sample of households. The information that is tabulated from the questions asked of

Place of Work

Means of Transportation to Work

Carpool Occupancy to Work

Departure Time for Work



Travel Time to Work



Vehicles Available





Key CTPP Products

- **Transportation Profiles for state, county and place**
- **CTPP based on 3-Year ACS Data Products**
 - Data access and visualization tools
- **CTPP based on 5-year ACS Data Products**
 - TAZ development
 - Data access and visualization tools
- **National Data Products – Commuting in America**

The 3-year Product Design

2008 Geography

Nation (US Total)
State
State-County
State-County-MCD
State-Place
State- PUMA (<i>red = 2000 geo.</i>)
State- POW PUMA
Metropolitan Statistical Area
MSA – EACH Principal City

Product Structure

3-Parts

Part 1- Place of Residence

Part 2- Place of Work

Part 3- Flows between
Home and Work

On-Line Data Retrieval

**Extraction Software ~ Raw
Data Download**

[http://ctpp.transportation.org/Documents/CTPP custom tabulations based on 3yracs2006 2008.xls](http://ctpp.transportation.org/Documents/CTPP_custom_tabulations_based_on_3yracs2006_2008.xls)



CTPP based on 2006-2008 ACS

Table Summary

	NUMBER of Tables (excluding collapsed versions)
All Parts	204
Part 1 Residence Tables	123
Part 2 Workplace Tables	56
Part 3 Commuting Flow Tables	25

CTPP_custom_tabulations_based_on_3yracs2006_2008



Content

Presenter
2012-06-12 21:31:04

Next: geography

<u>Characteristic</u>	<u>Examples</u>
Socioeconomic	Industry, occupation, poverty status, earnings, class of worker, usual hours worked per week, employment status
Social and demographic	Age, minority status/race/hispanic origin, length of U.S. residence, language spoken at home, school enrollment
Household	Household size, number of workers, age of youngest child, number of people over 16, number of people under 18, linguistic isolation, lifecycle (family type)
Housing	Tenure, units in structure, telephone availability, vacancy status
Urban/ rural residence	- (Part 1 only)

Means of Transportation (MOT)- Full

Version MOT (18)

1 Total	
2 Drove alone	13 Bicycle
3 Carpooled, 2-people	14 Walked
4 Carpooled, 3 people	15 Taxicab
5 Carpooled, 4 people	16 Motorcycle
6 Carpooled- 5- or 6- people	17 Other method
7 Carpooled- 7 or more people	18 Worked at home
8 Bus, trolley bus	
9 Streetcar, trolley car, light rail	
10 Subway, elevated	
11 Railroad	
12 Ferryboat	

Means of Transportation (MOT)-

Collapsed Versions (which do not nest)

MOT (11)	MOT (7)
1 Total	1 Total
2 Drove alone	2 Drove alone
3 Carpooled, 2-person	3 Carpooled
4 Carpooled, 3 or more people	
5 Bus, trolley bus	4 Public transportation
6 Streetcar, light rail, subway	
7 Railroad, ferryboat	
8 Bicycle	5 Bicycle or walked
9 Walked	
10 Taxi, motorcycle, other method	6 Taxi, motorcycle, other method
11 Worked at home	7 Worked at home

Means of Transportation (MOT)-

Collapsed Versions

MOT (6)	MOT (4)
1 Total	1 Total
2 Drove alone	2 Drove alone
3 Carpooled, 2-person	3 Carpooled
4 Carpooled, 3 or more people	
5 Public transportation, bicycle, walked, taxi, motorcycle, other method	4 Public transportation, bicycle, walked, taxi, motorcycle, other method, and worked at home
6 Worked at home	



Content- Journey-to-Work

- Besides means of transportation, other commuting tables are included:
 - Travel time (minutes)
 - Departure time from home / arrival time at workplace
 - Vehicles available in household
 - Number of vehicles and carpools used
 - Workers per carpool, vehicle ridership

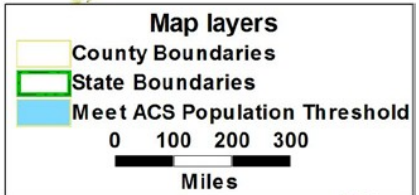
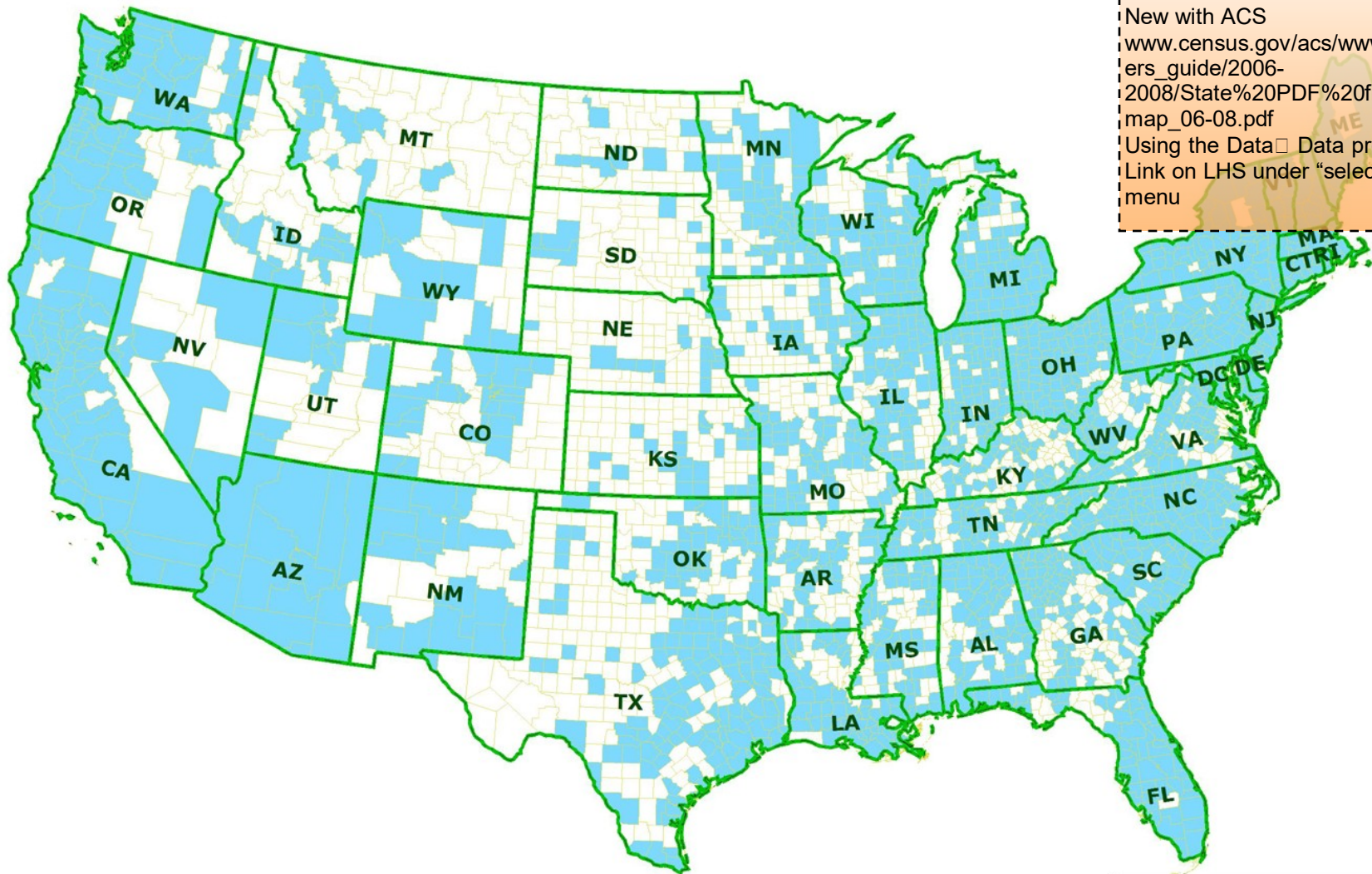
New with ACS

[www.census.gov/acs/www/Products/users_guide/2006-](http://www.census.gov/acs/www/Products/users_guide/2006-2008/State%20PDF%20files/reference_map_06-08.pdf)

[2008/State%20PDF%20files/reference_map_06-08.pdf](http://www.census.gov/acs/www/Products/users_guide/2006-2008/State%20PDF%20files/reference_map_06-08.pdf)

Using the Data ☐ Data product details ☐

Link on LHS under "select a state" menu





Geography Levels

- Workplace and Residence data is available at the following levels for areas with population 20,000 or greater:
 - Nation
 - State
 - County
 - County Subdivision
 - Place
 - PUMA (Public Use Microdata Area) – place of work PUMAs are slightly different from residence ones
 - Metropolitan Statistical Area (MSA)
 - MSA Principal City



Geography Levels

- Flow data is available at the following levels (residence-to-workplace):
 - State to state
 - County to county
 - County-subdivision to county-subdivision
 - Place to place
 - PUMA to PUMA
 - Principal-city to principal-city
 - County to place
 - County-subdivision to place
 - PUMA to place



Accessing the 3-year data

- All available on a single easy-to-use free website
 - Free to use, but you do need to register
 - Online help and tutorials help users along the way
- Create “sessions”, which are groups of tables with a common geography selection
 - Select geography using a map and/or drill down through the geographic hierarchy
- Search for tables by dimension name or any relevant word
 - Either within one of the parts or across all parts



Exporting the Data

- Once you have set up the table you want to see, you can export it:
 - Export the data in CSV, XLS or Beyond 20/20 (IVT) format for use in your own analysis tools
 - Export SHP files for viewing maps in your own GIS engine
- Entire “sessions” can be exported in a single operation.

3-year CTPP Product Summary

Highlights	Low Lights
Based on CTPP2000 Tables	Incomplete Coverage
Many NEW Univariate Tables	Rounded
More Age Tables	Reduced Number of Crosstabs with Mode
Streamlined Race Tables	-- Travel time
More HH and HH Lifecycle Tables	-- Household income
More English Proficiency Tables	-- Vehicle availability
Way more Flows Tables	-- Age
	-- Time leaving home
	Tables will have Suppression
	-- Means based on 3 values
	-- 3 records in Flow
	Large MOEs (@ 90%)



A few notes about CTPP based on 5 year ACS (2006 – 2010)

- Includes all size geography
 - Down to TAD, Tract, Block Group or TAZ
- Two sets of tables for each part dependent upon variables
 - “real” data
 - “perturbed or privacy protected” data
- NCHRP 8-79 - Producing Transportation Data Products from the American Community Survey that Comply with Disclosure Rules
- Coming in 2013

5-year CTPP Data Product

Product Structure

3-Parts

Part 1- Residence

Part 2- Workplace

Part 3- Flows between
Home and Work

On-Line Data Retrieval

Extraction Software

Raw Data Download

CTPP 5-Year Main Product

Summer 2013

2006, '07, '08, '09, 2010

Small Areas

(TAD, Tract, TAZ, Block Group)

New TAZs and TADS

Modeled and Actual
Data and Flows

Requires Disclosure Proofing

5-year Geography and Flows

FROM / Residence	TO / Workplace
State	State
State-County	State-County
State-County-MCD (all states)	State-County-MCD (all states)
State-County-Place	State-Place
MSA (each Principal City)	MSA (each Principal City)
State-County	State-Place
State-County-MCD (all states)	State-Place
State-PUMA	State-Place
PUMA	PUMA
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	Place

- **Asymmetrical Flows (in red)**
- **Small Areas defined by MPOs in MPO areas and States Elsewhere**
- **Tracts are Defaults for Small Areas**
- **Default TADs by AASHTO**

5-year CTPP Product Summary

Highlights	Low Lights
<p>Also Based on CTPP2000 Tables</p> <p>Many NEW Univariate Tables</p> <p>More Age Tables</p> <p>Streamlined Race Tables</p> <p>More HH and HH Lifecycle Tables</p> <p>More English Proficiency Tables</p> <p>Way more Flows Tables</p>	<p>Rounded</p> <p>More Crosstabs with Mode (but still not as many as CTPP2000)</p> <ul style="list-style-type: none">-- Travel time-- Household income-- Vehicle availability-- Age-- Time leaving home (time arriving for workplace geo)-- Presence of Children-- Minority Status-- Number of Workers <p>Suppression</p> <ul style="list-style-type: none">-- Means based on 3 values-- 3 records in Flow <p>Not as large as 3-year MOEs (@ 90% confidence)</p>

Resources



Special Staff and Contacts

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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



Site Navigation

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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 \(PDF only\)](#) [30-Jan-2012]
- [3-Year ACS CTPP Data](#) [20-January-2011]
- [3-Year ACS CTPP County Flow Data](#) [7-Sept-2010]
- [NCHRP Proposal: Identifying Methods for ACS 5-year Tabs](#)

<http://trbcensus.com>

“Status Report” newsletter

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 (January 2012) in [HTML](#) or [PDF](#) (375 KB)
- August 2011 in [HTML](#) or [PDF](#) (3.7 MB)
- May 2011 in [HTML](#) or [PDF](#) (168 KB)
- January 2011 in [HTML](#) or [PDF](#) (500 KB)
- August 2010 in [HTML](#) or [PDF](#) (252 KB)
- May 2010 Status Report in [HTML](#) or [PDF](#) (411 KB)
- December 2009 Status Report in [HTML](#) or [PDF](#) (182 KB)



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

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

FHWA website




U.S. Department of Transportation
Federal Highway Administration

STAY CONNECTED  


CTPP

Office of Planning, Environment, & Realty (HEP)
Planning

Guidance | Publications | Glossary | Awards | Events | Con



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)

FHWA → Planning → Census Issues → CTPP → Data Products

CTPP using ACS 2006-2010 (5-YEAR Summary)

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

- [MS Excel 194 KB](#)
- [Read Me File](#)
- [GEOGRAPHY Summary Levels and Geo-Components Definitions](#)
- [Format of Summary Levels for the CTPP 2006-2010 5-Year Special Tab](#)
- [Universe Definitions](#)
- [Variable Recode Definitions](#)
- [Tabulations - Part 1, Residence-Based Tables](#)
- [Tabulations - Part 2, Workplace-Based Tables](#)
- [Tabulations - Part 3, Worker Home-to-Work Flow Tables](#)
- [Accuracy \(Decimal Places\) in CTPP 5-year Tabulation](#)

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

AASHTO website



Census Transportation Planning Products

CTPP

- Home
- CTPP 3-year Data Based On 2006 - 2008 ACS
- Transportation Analysis Zones (TAZ)
- Training Resources
- Transportation Profiles
- CTPP2000 Training Materials
- CTPP Oversight Board
- CTPP Board Subcommittee Business
- 2005 TRB Conference Census Data
- E-Learning Modules
- Commuting in America IV - RFP

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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 and again in 2000, 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.

- [Commuting in America IV RFP](#)
- [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](#)

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

Developing 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>