

CTPP 2000 Basics



2000

Issued September 2000
MSO/00-CDP1V

Highlights

- Census of
Population and
Housing Topics**, p. 1.
- Includes 100-percent
and sample charac-
teristics.

**Census 2000
Geographic**

Introduction to Census 2000 Data Products

Census 2000 is the largest peacetime effort in the history of the United States. Information about the 118 million housing units and 275 million people across the United States will be available in a variety of formats and media, including the Internet, CD-ROMs, DVDs, and printed reports. This brochure provides a brief introduction to the information available from Census 2000, Census 2000 geography, maps, and data products. Visit our Web site at <http://www.census.gov> for more information.

**Information Available From the 22nd Census
of Population and Housing**

**United States
Census
2000**

What is CTPP 2000?



The Census Transportation Planning Package 2000 is a set of special tabulations from the long form of the decennial census designed by transportation planners for transportation planners

It summarizes the data



At workplace

**Flows between
Home and Work**



At Residence



Census 2000

Short Form and Long Form

PLEASE DO NOT FILL OUT THIS FORM.
This is not an official census form. It is for informational purposes only.

**United States
Census
2000**

U.S. Department of Commerce
Bureau of the Census



This is the official form for all the people at this address. It is quick and easy, and your answers are protected by law. Complete the Census and help your community get what it needs — today and in the future!

Start Here

1 How many people were living or staying in this house, apartment, or mobile home on April 1, 2000?

Number of people

INCLUDE in this number:

- foster children, roomers, or housemates
- people staying here on April 1, 2000 who have no other permanent place to stay
- people living here most of the time while working, even if they have another place to live

Start Here

Please use a black or blue pen.

1. How many people were living or staying in this house, apartment, or mobile home on April 1, 2000?

Number of people

INCLUDE in this number:

- foster children, roomers, or housemates
- people staying here on April 1, 2000 who have no other permanent place to stay
- people living here most of the time while working, even if they have another place to live

DO NOT INCLUDE in this number:

- college students living away while attending college

4. What is Person 1's telephone number? We may call this person if we don't understand an answer.

Area Code + Number

Print numbers in boxes.

5. What is Person 1's sex? Mark ☒ ONE box.

☐ Male ☐ Female

6. What is Person 1's age and what is Person 1's date of birth?

Age on April 1, 2000

Print numbers in boxes.

Print numbers in boxes.

Census 2000

Short Form Questionnaire

7 Questions

Name

Sex

Age

Relationship

Hispanic Origin

Race

Owner/Renter Status

**Same for
2010**

Census 2000

Long Form Sampling Pattern

For the U.S. as a whole, about one in six households received the long-form questionnaire.



17%

Transportation Related Questions

Long Form

Place of Work

Means of Transportation to Work

Carpool Occupancy to Work

Departure Time for Work

Travel Time to Work



Vehicles Available



Who developed it?

CTPP 2000 was a product of the states and MPOs funded through an AASHTO Pooled Fund Project



It was guided by a Working Group

USDOT (FHWA, BTS, FTA and OST)

Census Bureau (Migration and Geography Divisions)

AASHTO

States and MPOs

TRB Subcommittee on Census Data

www.TRBcensus.com

Census Transportation Planning Package 2000



	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 \$5.9 Million		

What are the CTPP 2000 Products?



Main CTPP 2000 Products



**Tabulations
at Residence**



**Tabulations
at Workplace**

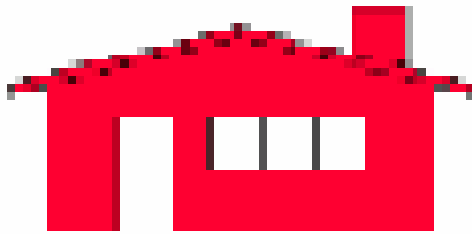


**Flows between
Home and Work**

Collateral Products

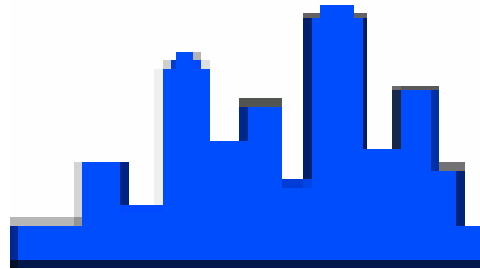
- ◎ ***State and County Profiles***
- ◎ ***County Flow Data***

CTPP 2000 Main Products



**Tabulations
at Residence**

Part 1



**Tabulations
at Workplace**

Part 2



**Flows between
Home and Work**

Part 3

When was it released?



CTPP 2000 came out in 3- waves

Residence, Workplace and Worker Flows



Residence Based Tables

~~Oct 2002~~ ~~Mar. 03~~ ~~April~~

June July-August 2003

Workplace *Spring / Summer 2004*

~~Summer 2003~~ ~~Fall 2003~~



Worker Flow Tables ~~Winter 2003-2005~~

Summer

Spring

How is it packaged?

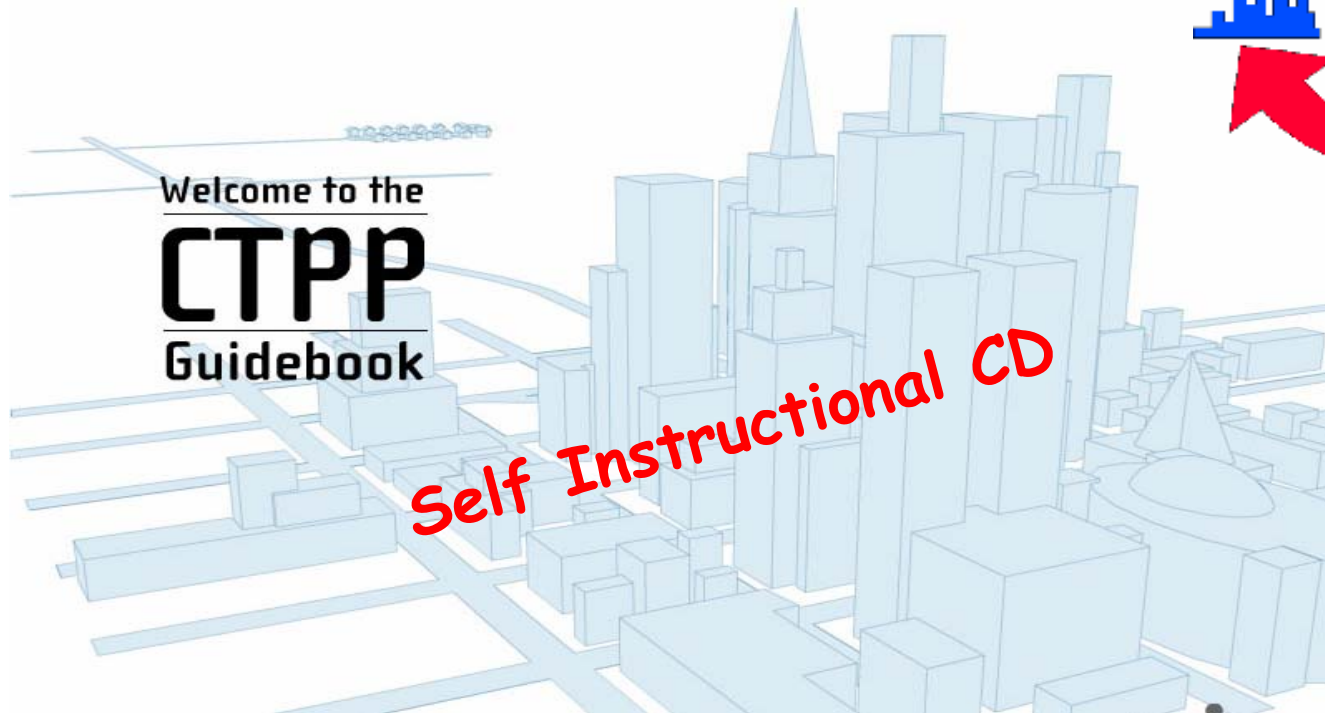


CTPP Access Tool
The CAT



ASCII Too

Is there training?



Provides all the basics to understand, use and work with the CTPP 2000 data for transportation planning

Email ed.christopher@fhwa.dot.gov

for a FREE copy of the GUIDEBOOK

Introduction

Module 1

Module 2

Module 3

Module 4

Module 5

Case Study 1

Case Study 2

Case Study 3

Case Study 4

Case Study 5

Case Study 6

MODULE One: Introduction to CTPP 2000

MODULE TWO: How is the CTPP 2000 Organized?

MODULE THREE: Overview of Products and Applications

MODULE Four CTPP 2000 Access Tool

MODULE FIVE: Data Quality Issues

Case Study 1: Trend Analysis

Case Study 2: Demographic Summaries

Case Study 3: Factoring Travel Surveys

Case Study 4: Developing Models

Case Study 5: Transit Service Planning

Case Study 6: Civil Rights Analysis

Where do you get CTPP 2000 Data? *ASCII Files*



RITA U.S. Department of Transportation | Research and Innovative Technology Administration
Bureau of Transportation Statistics

Search ABOUT RITA | CONTACT US | PRESS ROOM | CAREERS | SITE MAP

Bureau of Transportation Statistics

TranStats

Search this site:

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Resources
Database Directory

Quick Answers

- [Carrier Snapshots](#)
- [Airline Fuel Cost and Consumption](#)
- [Air Freight Summary](#)

[Airport Snapshots](#)

- [Holiday Flight Delays](#)
- [Inter-Airport Distances](#)

Airline Activity : National Summary (U.S. Flights)

	2007 *	2008 *	Change
Passengers (million)	665	677	1.8%
Departures (000)	10,333	10,294	-0.4%
Freight/Mail (million lbs)	22,279	21,237	-4.7%
Load Factor (%)	79.2	79.9	0.7 points

At a Glance

Percent of U.S. Flights On Time (2007-2008)

Major Carriers at U.S. Airports

Click a bar for details. Mouseover it for

<http://www.transtats.bts.gov/>

Where do you get CTPP 2000 Data? *w/Extraction Software*



Bureau of Transportation Statistics

[Login](#) | [Register](#) | [Shopping Cart](#)

Search Products

Data

National
Transportation
Library

Bookstore

Aviation

Economy and

[Home](#)

Bookstore



[Census Transportation Planning
Package 2000 \(CTPP\) - Part 2: Data by
Place of Work CD](#)

These CDs provides tabulations of households,
persons and workers by place of work.

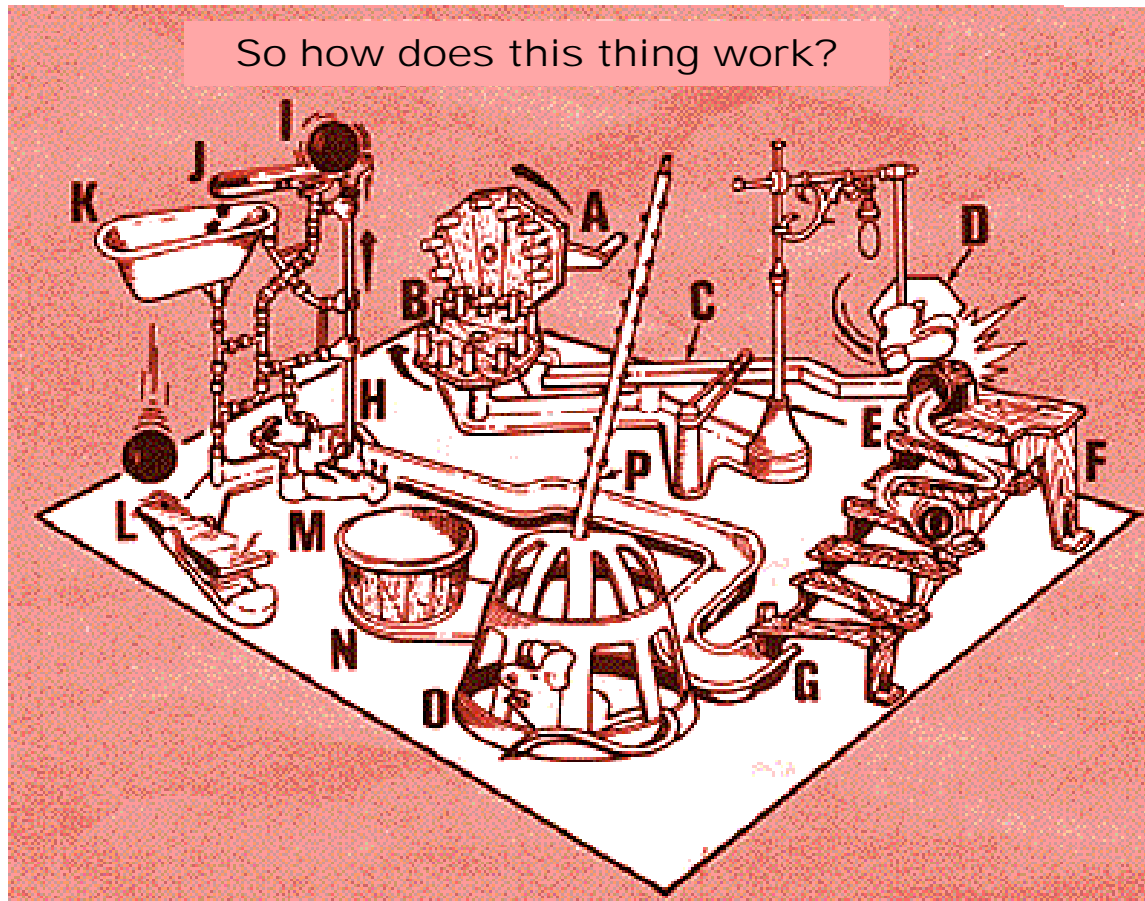
[**https://www.bts.gov/pdc/**](https://www.bts.gov/pdc/)

What do you get?

Let's Look at the Details



So how does this thing work?



Total	Shuffled State
Less than 30 minutes	61,262,000
Public transportation	1,367,800
Other means	79,894,200
30 to 44 minutes	23,703,900
Public transportation	1,579,220
Other means	22,124,680
45 to 59 minutes	9,203,470
Public transportation	1,050,370
Other means	8,153,097
60 or more minutes	9,827,740
Public transportation	2,040,350
Other means	7,787,390

Geographic Area	1980 Census		Census 2000		Change 1980 to 2000	
	Number	Percent	Number	Percent	Number	Percent
POPULATION						
Total population	1,179,213	96.2	2,060,220	94.2	881,007	74.7
Foreign born	100,000	8.5	200,000	9.7	100,000	8.5
HOUSEHOLD SIZE						
Avg. household	2.94	NA	2.72	NA	-0.22	-7.5
Large households	1,000,000	84.8	1,100,000	53.3	100,000	8.5
Small households	179,213	15.2	960,220	46.7	781,007	66.3
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Small households	179,213	15.2	960,220	46.7	781,007	66.3



Tables—Lots of Tables

Means of Transportation to Work for the U.S., 1990 Census			
	Number	Percent	
Workers 16 years and over.....	115,071,374	100.0	
Car, truck, or van.....	89,552,852	64.5	
Single occupant.....	59,235,298	79.2	
Carpooled.....	15,677,614	13.4	
Public transportation.....	5,500,280	4.0	
Bus or trolley bus.....	4,640,500	3.9	
Subway or elevated.....	859,780	0.5	
Railroad or commuter line.....	1,055,476	1.5	
Bicycle.....	374,052	0.2	
Permitted to drive.....	17,467	0.0	
Taxicab.....	179,404	0.2	
Motorcycle.....	215,654	0.2	
Bicycle.....	446,854	0.4	
Walked only.....	4,006,896	3.9	
Other means.....	1,000,000	0.7	
Surveys.....	3,956,025	3.0	
Workers of 16 years.....	115,071,374	100.0	

[illegible][illegible]

Total	125,276,228
Letter or an HSP/MSEA	104,289,822
Letter in a control	37,311,265
Control in HSP/MSEA or reference	35,456,679
Control only	27,920,400
Reference in HSP/MSEA	1,638,148
Control in HSP/MSEA of reference	2,489,480
Reference in HSP/MSEA of reference	1,578,241
Reference only	7,000,277
Reference in HSP/MSEA of reference	1,451,285
Reference only	2,124
Using HSP/MSEA or an HSP/MSEA	66,572,672
Control in HSP/MSEA or reference	66,572,672
Control only	35,456,679
Reference in HSP/MSEA	47,426,726
Control in HSP/MSEA of reference	7,000,277
Reference in HSP/MSEA of reference	2,124
Control only	3,573,148
Reference in HSP/MSEA	2,000,000
Reference only	2,124
Using HSP/MSEA	2,489,480
Control in HSP/MSEA	2,489,480

121 Tables of Residents' Based Data

68 Tables of Work Place Data

14 Tables of Flow Data

[illegible]

	United States
Total:	124,095,000
Less than 30 minutes:	01,292,940
Public transportation	1,397,634
Other means	70,605,306
30 to 44 minutes:	23,703,900
Public transportation	1,579,223
Other means	22,124,680
45 to 59 minutes:	0,300,414
Public transportation	1,050,742
Other means	0,149,672
60 or more minutes:	9,997,746
Public transportation	0,040,100
Other means	7,957,646

- Business Transactions		
1. Cash	100,000	100,000
2. Accounts receivable	100,000	100,000
3. Inventory	50,000	50,000
4. Prepaid expenses	10,000	10,000
5. Equipment	100,000	100,000
6. Accounts payable	50,000	50,000
7. Notes payable	100,000	100,000
8. Common stock	100,000	100,000
9. Retained earnings	100,000	100,000
10. Dividends	10,000	10,000
11. Sales	100,000	100,000
12. Cost of sales	50,000	50,000
13. Depreciation	10,000	10,000
14. Interest expense	10,000	10,000
15. Income tax expense	10,000	10,000
16. Net income	10,000	10,000
17. Total	1,000,000	1,000,000

Demographic data (see text)	1995-1996		1996-1997		1997-1998	
	Number	Percent	Number	Percent	Number	Percent
POPULATION						
1995-1996	1,121	100	1,121	100	1,121	100
1996-1997	1,121	100	1,121	100	1,121	100
1997-1998	1,121	100	1,121	100	1,121	100
RESEARCHER BY SEX						
Male	1,121	100	1,121	100	1,121	100
Female	1,121	100	1,121	100	1,121	100
RESEARCHER BY ETHNICITY						
White	1,121	100	1,121	100	1,121	100
Black	1,121	100	1,121	100	1,121	100
Hispanic	1,121	100	1,121	100	1,121	100
Other	1,121	100	1,121	100	1,121	100
RESEARCHER BY EDUCATION						
High school	1,121	100	1,121	100	1,121	100
College	1,121	100	1,121	100	1,121	100
Postgraduate	1,121	100	1,121	100	1,121	100
RESEARCHER BY AGE						
18-24	1,121	100	1,121	100	1,121	100
25-34	1,121	100	1,121	100	1,121	100
35-44	1,121	100	1,121	100	1,121	100
45-54	1,121	100	1,121	100	1,121	100
55-64	1,121	100	1,121	100	1,121	100
65+	1,121	100	1,121	100	1,121	100

[illegible]

Comparing SF3 to CTPP 2000

SF3	CTPP 2000
Travel time to Work (4) by Means of Transportation (2)	Travel time to Work (15) by Means of Transportation (10)
Tenure (2) by Vehicles Available (6)	Vehicles Avail (5) by Hhld Income (25) Vehicles Avail (5) by Nos. of workers in hhld (5) AND MORE

Variables--Lots of Variables



Person and Workers

Worker Status

**Age, Sex, Race, Hispanic
Origin, Disability**

Household

Income

Nos. Vehicles Available

Size and Nos. Workers

Journey-to-Work







Work Location and Mode

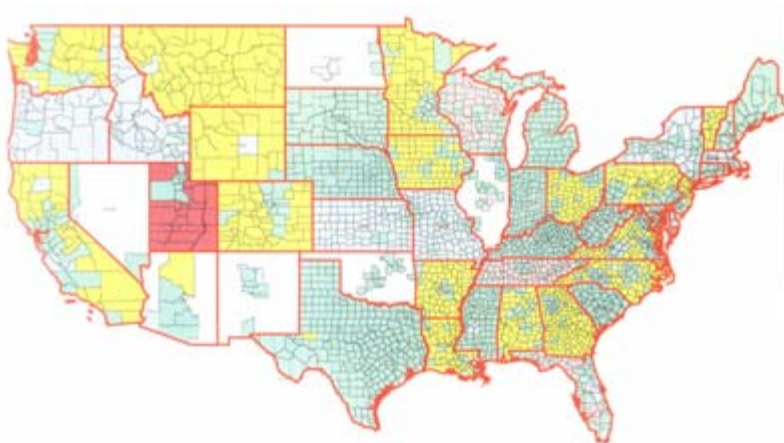
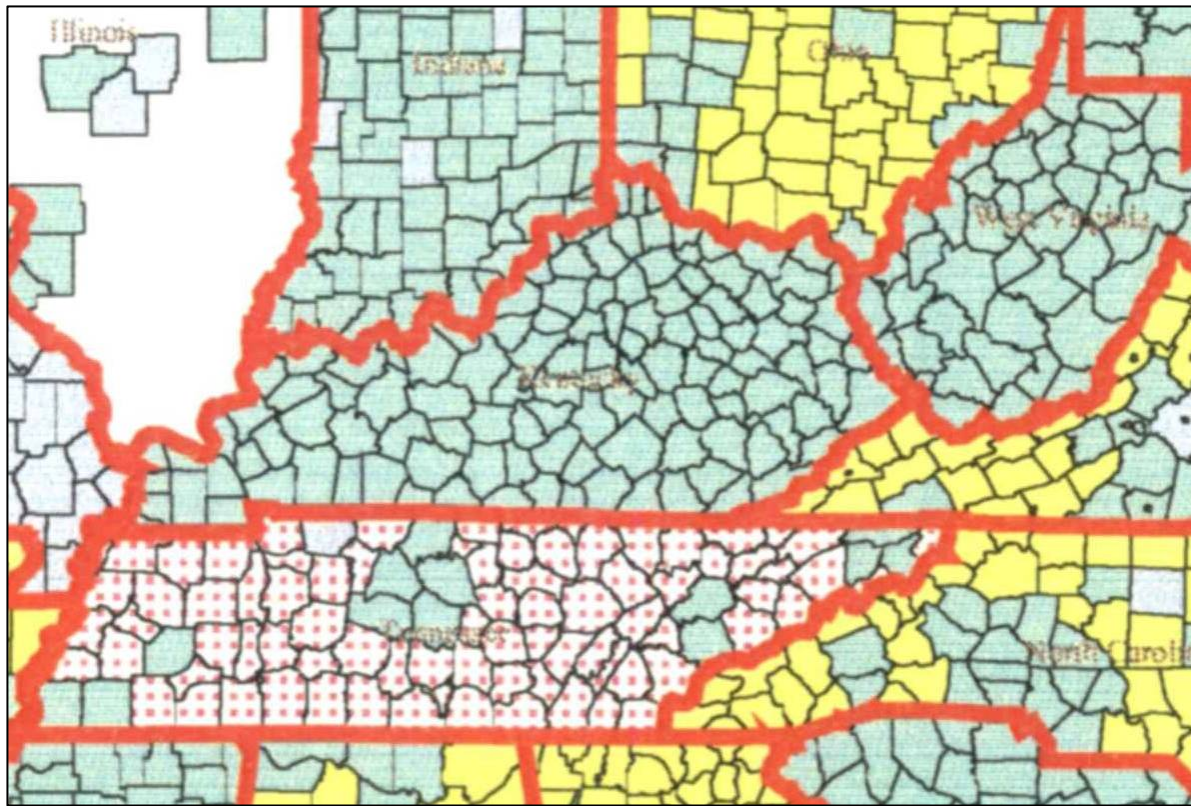
Departure and Travel Time

Arrival Time (Calculated)

Geography--Lots of Geography

T A Z	Tracts	Combined Zones	MCD in 12 States	Places > 2,500	County	State
or Block Groups						

Part 1 (at Residence)	  1 2 1 T a b l e s
Part 2 (at Workplace)	  6 8 T a b l e s
Part 3 (Worker Flows)	  1 4 T a b l e s



Legend


United States Counties (Total 3140)

 Census Block Group (363)

 County Boundary (22)

 Traffic Analysis Zone (TAZ) (1453)

 Census Tract (871)

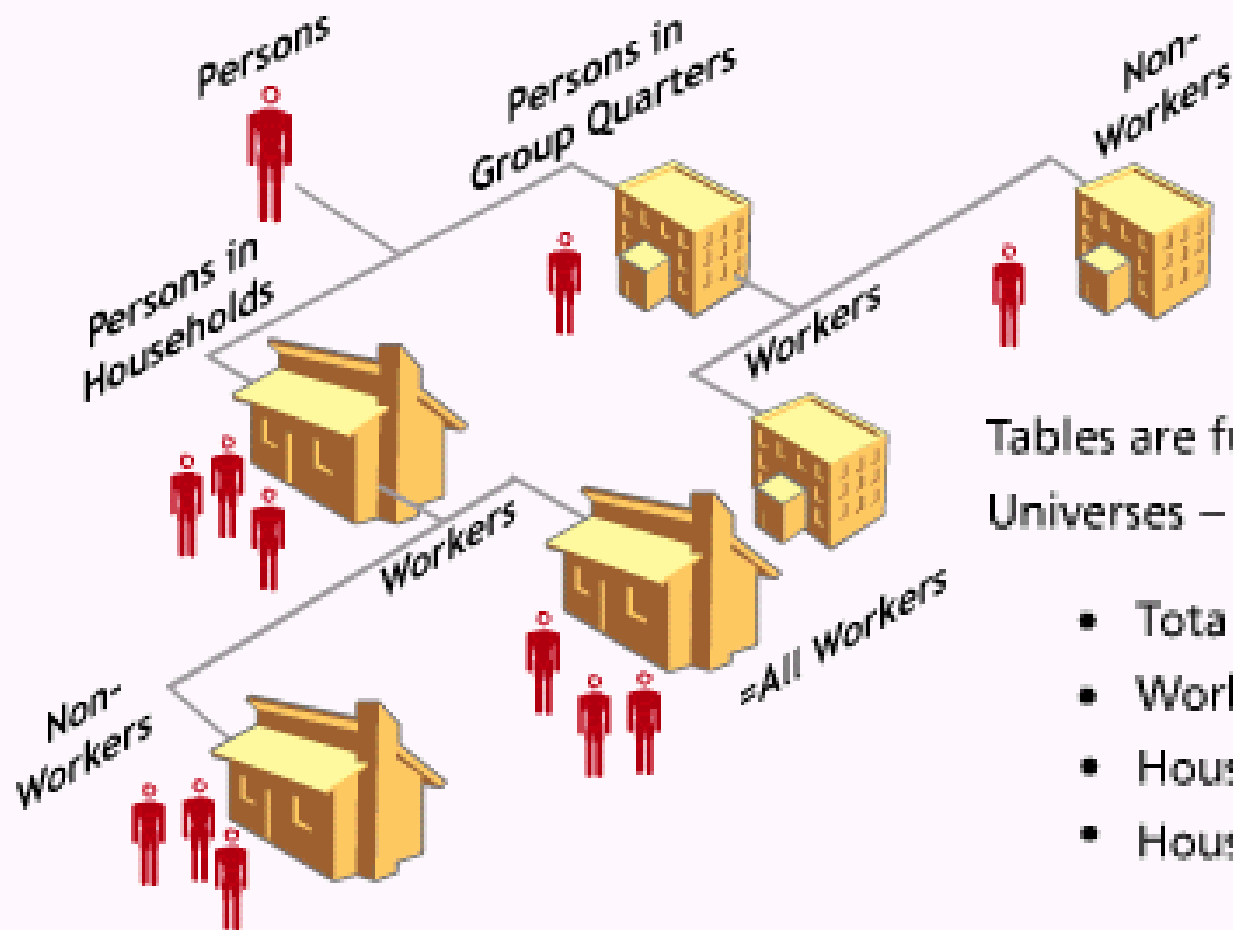
 TAZs to be determined from aggregations of 2000 Census Geography (165)

 No geography defined (266)



CTPP Data Tables

What is a “Universe”?



Tables are further sorted for different Universes – the **counting units**:

- Total persons
- Workers
- Households
- Housing units

CTPP 2000 Table Structure

Part 1: At Residence (121 Tables)

Group 1: All Workers	Tables 1-29
Group 2: Workers in Housholds	Tables 30-48
Group 3: Persons	Tables 49-61
Group 4: Households	Tables 62-83
Group 5: Housing Units	Tables 84 to 88
Group 6: Computed Tables	Tables 89-121

Part 2: At Workplace (68 Tables)

Group 1: All Workers	Tables 1-29
Group 2: Workers in Households	Tables 30-48
Group 3: Computed Tables	Tables 49-68

Part 3: Worker Flows (14 Tables)

Group 1: Small Geography	Tables 1-8
Group 2: Sm Geo Computed	Tables 9-14

Means of Transportation to Work

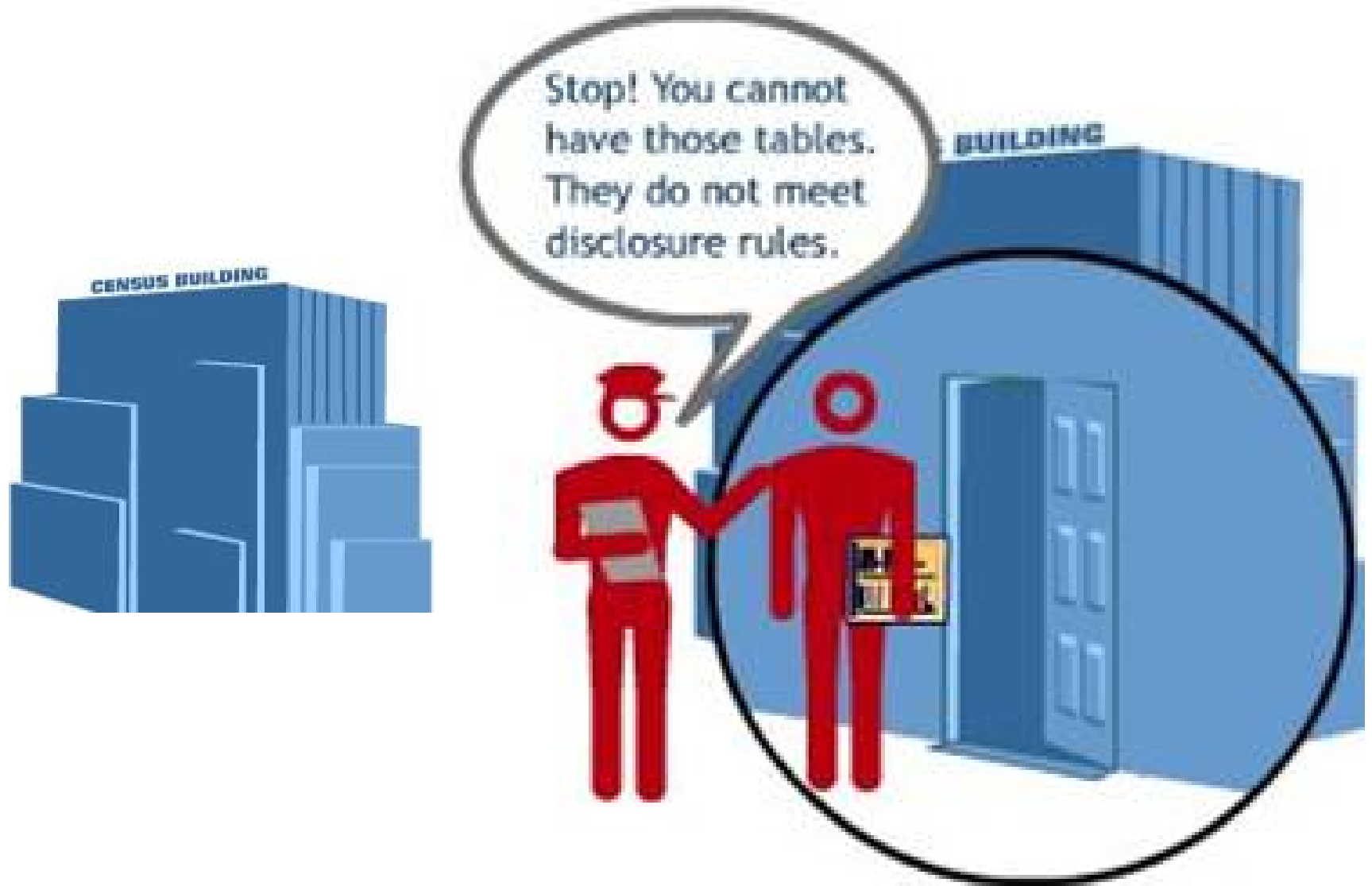
Total	Total	Total	Total
Drove Alone	Drove Alone	Drove Alone	Drove Alone
2 Person Carpool	2 Person Carpool	2 Person Carpool	2+ Person Carpool
3 Person Carpool	3 Person Carpool	3+ Person Carpool	
4 Person Carpool	4+ Person Carpool		
5-6 Person Carpool			
7+ Person Carpool			
Bus/Trolley Bus	Bus/Trolley Bus	Bus or Trolley Bus	Bus/Trolley Bus/ Streetcar/Trolley/ Subway/Elevated/ Railroad/ Ferryboat
Streetcar/Trolley	Streetcar/Trolley/ Subway/Elevated	Streetcar/Trolley/ Subway/Elevated/ Railroad/ Ferryboat	
Subway/Elevated			
Railroad			
Ferryboat			
Bicycle	Bicycle/Walked	Bicycle/Walked/ Taxicab/ Motorcycle/other Means	Bicycle/ Walked/ Taxicab/ Motorcycle/other Means/ Worked at Home
Walked			
Taxicab	Taxicab/ Motorcycle/other Means		
Motorcycle			
Other Means			
Worked at Home	Worked at Home	Worked at Home	
18 Modes	11 Modes	8 Modes	5 Modes

Sample Variable List

10 Character Name	Variable	Category No.	Categories
AGE12	Age (12)	1	Total, Age (12)
		2	Under 16 years
		3	16 and 17 years
		4	18 to 20 years
		5	21 to 24 years
		6	25 to 34 years
		7	35 to 44 years
		8	45 to 54 years
		9	55 to 61 years
		10	62 to 64 years
		11	65 to 74 years
		12	75 years and over
AGE8	Age (8)	1	Total, Age (8)
		2	Under 16 years
		3	16 and 17 years
		4	18 to 24 years
		5	25 to 44 years
		6	45 to 64 years
		7	65 to 74 years
		8	75 years and over
AGE4	Age (4)	1	Total, Age (4)
		2	Under 55 years
		3	55 to 64 years
		4	65 years and over
HHLDR_AGE	Age of householder (9)	1	Total, Age of householder (9)
		2	Householder less than 18 years
		3	Householder 18 to 24 years
		4	Householder 25 to 34 years

NOTE: Age has 3 levels, clusters or elements

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CTPP 2000 Post DRB

Part 1: at Residence (121 Tables)

All Tables Rounded

Zero = 0

1 through 7 = 4

8 though ∞ = Nearest Multiple of “5”

Part 2: at Workplace (68 Tables)

All Tables Rounded

Part 3: Worker Flows (14 Tables)

All Tables Rounded

Some Tables with Thresholds

Example of Rounding

Mode to Work	Circa 1990	For 2000 (ROUNDED)
Total	352	350 (not 355!)
Drive Alone	212	210
Carpool	46	45
Transit	59	60
Walk	33	35
Bike	2	4

True Total 354

Part 3: Worker Flow Tables

Table	Content
1	Total Workers (1)
2	Vehicles Available (3--zero,one or two+) by Means of Transportation
3	Poverty Status (3 categories)
4	Minority Status (2--white non-hispanic and all other)
5	Household Income (8 classifications)
6	Means of Transportation (17 modes)
7	Household Income (4 classifications) by Means of Transportation
8	Mean Travel Time by Means of Transportation to Work (7 modes) and Time Leaving Home for Work (2--AM peak and all other times)
9	Median Travel Time by Means of Transportation to Work (7 modes) and Time Leaving Home for Work (2 groupings)
10	Aggregate Number of Vehicles by Time Leaving Home for Work (2, see table 8)
11	Number of Workers per Vehicle by Time Leaving Home for Work (2, see table 8)
12	Aggregate Number of Carpools by Time Leaving Home for Work (2, see table 8)
13	Number of Workers per Carpool by Time Leaving Home for Work (2, see table 8)
14	Aggregate Travel Time by Means of transportation to work (7 modes) and Time Leaving Home for Work (2, see table 8)

**No record
threshold**

**Must have 3
unweighted
records**

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*TRB Sub committee on census data in Transportation Planning
Ed Christopher (708-283-3534)*