Transportation Planning and Analysis & Census Bureau Data in 2010 and beyond

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The United States Census

- For many years, a decennial source of socioeconomic and transportation behavior data.
 - Other than population, race and housing unit counts, all data came from a sample-based "long form" survey.
 - Data has been the basis of the Census Transportation Planning Products program (CTPP)
 - Home- and Work-Based Profiles
 - Journey to Work and Worker Flow



VT Long Range Transportation Business Plan

Working Paper 4: Demographic and Economic Trends

12 February 2007 Final Report

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Franklin County Commuting Data, 2000

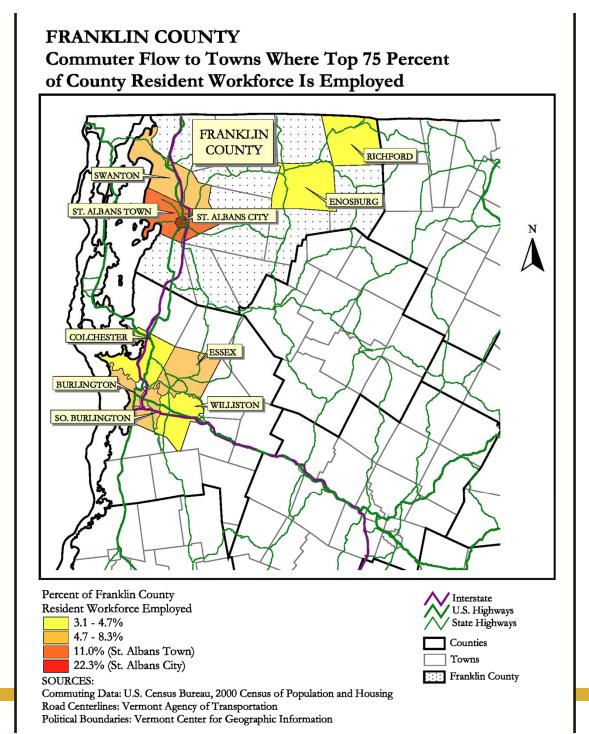
County to County		
County of Work	Count	Percent
Franklin Co.	14,420	63.9
Chittenden Co.	7,292	32.3
Lamoille Co.	280	1.2
Out of State	223	1.0
Washington Co.	144	0.6
Orleans Co.	61	0.3
Addison Co.	59	0.3
Grand Isle Co.	49	0.2
Caledonia Co.	18	0.1
Rutland Co.	16	0.1
Orange Co.	13	0.1
Windsor Co.	3	0.0
Bennington	0	0.0
Essex	0	0.0
Windham	0	0.0
Total	22,578	100.0
Commute Outside County	8,158	36.1

Towns where Top 75% of Resident Workforce is Employed					
Workplace	Count	%	Cumulative %		
St. Albans city Franklin Co.	5,043	22.3	22.3		
St. Albans town Franklin Co.	2,489	11.0	33.4		
Essex town Chittenden Co.	1,883	8.3	41.7		
Swanton town Franklin Co.	1,686	7.5	49.2		
Burlington city Chittenden Co.	1,560	6.9	56.1		
South Burlington city Chittenden Co.	1,217	5.4	61.5		
Enosburg town Franklin Co.	1,057	4.7	66.1		
Williston town Chittenden Co.	806	3.6	69.7		
Colchester town Chittenden Co.	692	3.1	72.8		
Richford town Franklin Co.	690	3.1	75.8		



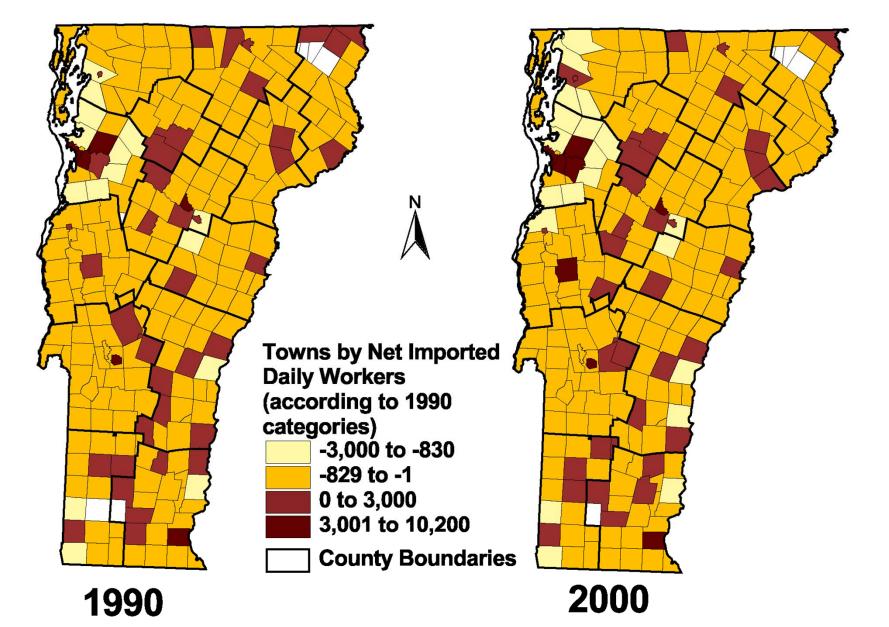
Source: U.S. Census Bureau, 2000 Census of Population and Housing

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SOURCES

Worker Data: U.S. Census Bureau, 1990 and 2000 Censuses of Population and Housing Political Boundaries: Vermont Center for Geographic Information



2010 Census

- "Short Form" Only
- Counts of People and Housing Units
- BasicDemographics



American Community Survey

- Since 2005
- Annual Data Releases
- Replacing the "Long Form"
- Characteristics of the Population: Income, Poverty, Transportation, Disability, Employment, Housing Conditions, etc.

The 2010 Census

Collected April-July 2010

"Short Form" only

• Population, Race and Housing Unit Counts

Release Schedule Summary:

- Dec 2010: State Population Counts
- May 2011: Demographic Profiles
- Jun-Aug 2011: Full data to block level
- Oct 2012: Urban/Rural delineations
- Jul-Aug 2013: CBSAs redefined



American Community Survey

- Annual Data Releases
- Replaces the Census "Long Form"
- Income, Poverty, Transportation, Disability, Employment, Ancestry, Education, Housing Conditions...
- Year-long enumeration of 3⁺ million U.S. households.
- Focus on <u>Characteristics</u>, not counts.





Some Key Differences

- Margins of Error Included
- "Residence Rule" = more than 2 months
- Smaller geographies receive multi-year estimates
- Suppression of "unreliable" tables



American Community Survey

Data in Multi-Year Period Estimates

- Combine more than one year's sample
- First 5-year estimate planned for December 2010

Data Product	Population	Year of Data Release							
	Threshold	2006	2007	2008	2009	2010	2011	2012	2013
		Year(s) of Data Collection							
1 - year Estimates	65,000+	2005	2006	2007	2008	2009	2010	2011	2012
3 - year Estimates	20,000+			2005- 2007	2006- 2008	2007- 2009	2008- 2010	2009- 2011	2010- 2012
5 - year Estimates	All Areas*					2005- 2009	2006- 2010	2007- 2011	2008- 2012



*All legal, administrative and statistical geographic areas down to the tract and block group level.



Margins of Error

Median Age, Vermont, 2008

	Vermont			
	Estimate	Margin of Error		
Median age				
Total:	41.5		+/-0.3	
Male	40.3		+/-0.3	
Female	42.8		+/-0.4	

Source: U.S. Census Bureau, 2008 American Community Survey

- Data actually in ranges
 - Allow tests for statistical significance



American Community Survey

The Residence Rule

• Decides where you are counted

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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

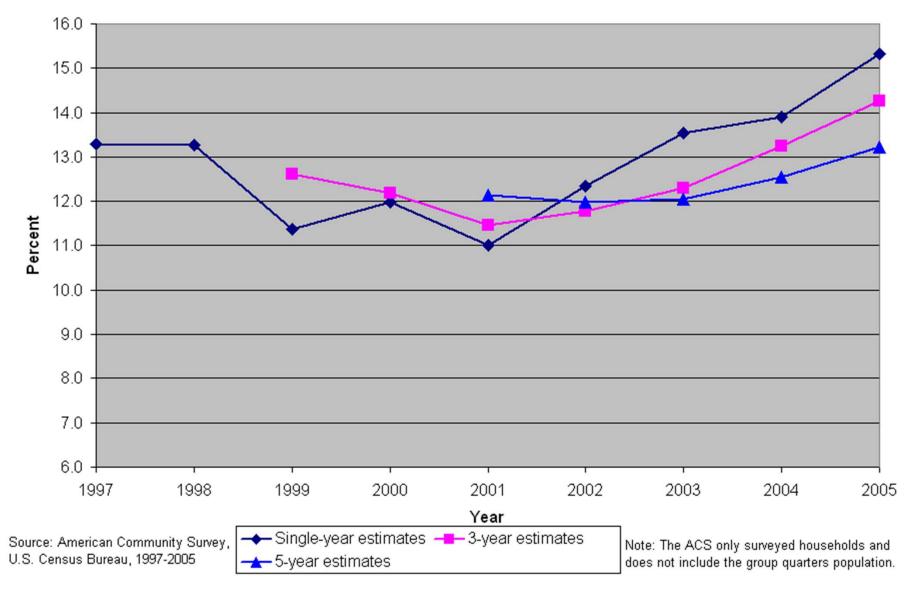
• Includes seasonal residents



ACS Test Site Data

Courtesy of Nebraska State Data Center

Percentage of Omaha Population in Poverty (Individuals)



3-Year Census Transportation Planning Products Release



What is the CTPP?

*A set of special tabulations from the American Community Survey tailored for the data needs of transportation planners

*Produced by the Census Bureau, sponsored and owned by American Association of State Highway Transportation Officials (AASHTO)

3-year CTPP Data Product



Available Late Nov. 2010

Based on ACS 2006, 2007, 2008

20,000 Pop. Areas

http://trbcensus.com/products

3-year CTPP Product Summary

- •Based on CTPP2000 Tables
- •Many NEW Univariate Tables
- •More Age, Race, Household-level Tables
- •Several Flow Tables Included
- •Tables Include MOEs
- •Reduced Number of Crosstabs with Mode
 - •-- Travel time
 - Household income
 - •-- Vehicle availability
 - •-- Age
 - Time leaving home
- •Tables will have Suppression
 - •-- Means based on at least 3 values
 - At least 3 records in Flow

The 3-year Product Design



Based on 2000 Geography

Nation (US Total)

State

State-County

State-County-MCD

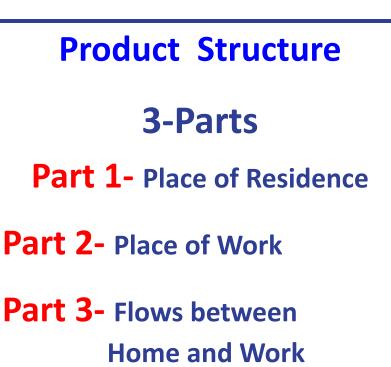
State-Place

State-PUMA

State-POW PUMA

Metropolitan Statistical Area

MSA – EACH Principal City



Product documentation available at:

http://ctpp.transportation.org/Documents/CTPP_custom_tabulations_based_on_3yracs2006_2008.xls



- All tables available for download online

 -Free, but you must register
 -Online tutorials available
- User Friendly Features:

 Search for tables by keyword
 Click on a map to select geography
- Early release of county-to-county flows: ftp://ftp.camsys.com/temp/outgoing/CTPP/New%20CTPP%20ACS/

Other Forthcoming Commuting Products based on the ACS

- County-to-county home-to-work flows based on 5-year ACS 2006-2010
- Produced to support development of new metro area definitions



Key CTPP Contact

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...*resources* and *expertise* to support rural people and communities

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Presentation Download Available at uvm.edu/crs under "Reports and Presentations"

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