An “Embarrassment of Riches”*
Updates from the 2010 Census Bureau State Data Center Conference

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Vermont State Data Center
at the Center for Rural Studies &
University of Vermont

VT Spatial Data Partnership Webinar
October 27, 2010

*Quote from Census Bureau Director Robert Groves 10/14/10
Census Bureau Data

• Updates from this Year’s State Data Center Meeting:
  – 2010 Census release schedule
  – ACS ramped up to 5-year estimates
  – Plans for CTPP
  – *On the Map* update
December 2010

A Month of Data!

• First 5-year Estimates from the ACS
  – Down to block group level, including towns

• U.S. Demographic Estimates
  – From Population Estimates program

• 2010 Census State Population Counts
  – By Dec 31
  – First 2010 Census data!
Review of Changes in 2010

2010 Census
• “Short Form” Only
• Counts of People and Housing Units
• Basic Demographics

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

- US and VT mail participation matched 2000

  74% and 69%
The 2010 Census

Release Schedule Summary:

- by Dec 31, 2010: State Population Counts
- Feb-Mar 2011: Redistricting data down to block level
  - First release of new block geos! (TIGER)
- May 2011: Demographic Profiles
- Jun-Aug 2011: Full data down to block level
- Oct 2012: Urban/Rural delineations
- Jul-Aug 2013: CBSAs redefined
The 2010 Census

• Data Release Schedule:

• TIGER Shapefile Release Schedule:
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.
  – Trying to increase to 3.5 million
• Focus on Characteristics, not counts.
American Community Survey

Some Key Differences

• Margins of Error Included
• “Residence Rule” = more than 2 months
• Smaller geographies receive multi-year estimates
• Suppression of “unreliable” tables
  • Purportedly not for 5-year data
American Community Survey

Data in Multi-Year Period Estimates

- Combine more than one year’s sample
- Not Averages!

<table>
<thead>
<tr>
<th>Data Product</th>
<th>Population Threshold</th>
<th>Year of Data Release</th>
<th>Year(s) of Data Collection</th>
</tr>
</thead>
</table>

*All legal, administrative and statistical geographic areas down to the tract and block group level.
Margins of Error
Median Age, Vermont, 2008

<table>
<thead>
<tr>
<th>Vermont</th>
<th>Estimate</th>
<th>Margin of Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median age --</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total: 41.5</td>
<td>+/-0.3</td>
<td></td>
</tr>
<tr>
<td>Male 40.3</td>
<td>+/-0.3</td>
<td></td>
</tr>
<tr>
<td>Female 42.8</td>
<td>+/-0.4</td>
<td></td>
</tr>
</tbody>
</table>

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

• Data actually in ranges
  • Allow tests for statistical significance
The Residence Rule

• Decides where you are counted

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
Percentage of Omaha Population in Poverty (Individuals)

Multi-year estimates subject to lag in reflection of trends.

Source: American Community Survey, U.S. Census Bureau, 1997-2005

Note: The ACS only surveyed households and does not include the group quarters population.
Accessing the Data

- **Vermont Indicators Online & Vermont Housing Data** websites
  - Target to serve ACS 5-year data beginning in Jan-Feb.

- **American FactFinder**
  - Direct source for 2010 and ACS data
  - Redesign in progress!
    - Set to debut Jan 2011
Test Drive in October 2010:

- The improvements are real, but there are some bugs, and there will still be a substantial user learning curve.
- No sign of a multi-year trending feature, like the value-added VT sites.

Preview the new American FactFinder in the fall of 2010, and subscribe to get the latest updates at factfinder.census.gov.
Accessing the Data

Statistical Calculator Planned...
  – For using and calculating margins of error
    • Compare for significant difference
    • Create MOEs from new sums, ratios, proportions, etc.
  – Inclusion and nature of interface at least 2 years out.

Rumor of MOE tables for 2000 Census sample data.
  – For use in comparing to ACS
  – Also about 2 years out
Census Transportation Planning Products

CTPP

– Residence and workplace profiles
– Worker flow (very popular)
• Allowed analyses like this:
Franklin County Commuting Data, 2000

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

Towns where Top 75% of Resident Workforce is Employed

<table>
<thead>
<tr>
<th>Workplace</th>
<th>Count</th>
<th>%</th>
<th>Cumulative %</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. Albans city Franklin Co.</td>
<td>5,043</td>
<td>22.3</td>
<td>22.3</td>
</tr>
<tr>
<td>St. Albans town Franklin Co.</td>
<td>2,489</td>
<td>11.0</td>
<td>33.4</td>
</tr>
<tr>
<td>Essex town Chittenden Co.</td>
<td>1,883</td>
<td>8.3</td>
<td>41.7</td>
</tr>
<tr>
<td>Swanton town Franklin Co.</td>
<td>1,686</td>
<td>7.5</td>
<td>49.2</td>
</tr>
<tr>
<td>Burlington city Chittenden Co.</td>
<td>1,560</td>
<td>6.9</td>
<td>56.1</td>
</tr>
<tr>
<td>South Burlington city Chittenden Co.</td>
<td>1,217</td>
<td>5.4</td>
<td>61.5</td>
</tr>
<tr>
<td>Enosburg town Franklin Co.</td>
<td>1,057</td>
<td>4.7</td>
<td>66.1</td>
</tr>
<tr>
<td>Williston town Chittenden Co.</td>
<td>806</td>
<td>3.6</td>
<td>69.7</td>
</tr>
<tr>
<td>Colchester town Chittenden Co.</td>
<td>692</td>
<td>3.1</td>
<td>72.8</td>
</tr>
<tr>
<td>Richford town Franklin Co.</td>
<td>690</td>
<td>3.1</td>
<td>75.8</td>
</tr>
</tbody>
</table>

Source: U.S. Census Bureau, 2000 Census of Population and Housing
FRANKLIN COUNTY
Commuter Flow to Towns Where Top 75 Percent of County Resident Workforce Is Employed

Percent of Franklin County Resident Workforce Employed
- 3.1 - 4.7%
- 4.7 - 8.3%
- 11.0% (St. Albans Town)
- 22.3% (St. Albans City)

SOURCES:
- Commuting Data: U.S. Census Bureau, 2000 Census of Population and Housing
- Road Centerlines: Vermont Agency of Transportation
- Political Boundaries: Vermont Center for Geographic Information
Towns by Net Imported Daily Workers (according to 1990 categories)
-3,000 to -830
-829 to -1
0 to 3,000
3,001 to 10,200
County Boundaries

SOURCES
Worker Data: U.S. Census Bureau, 1990 and 2000 Censuses of Population and Housing
Political Boundaries: Vermont Center for Geographic Information
What is the CTPP?

*Now 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)

(Sawyer: Incorporation of new ACS data had been a moving target)

Slide prepared by U.S. Census Bureau and CTPP partners.
3-year CTPP Data Product

Available Late Nov. 2010
20,000 Pop. Areas

http://ctpp.transportation.org

Slide prepared by U.S. Census Bureau and CTPP partners.
The 3-year Product Design

<table>
<thead>
<tr>
<th>Based on 2000 Geography</th>
<th>Product Structure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nation (US Total)</td>
<td>3-Parts</td>
</tr>
<tr>
<td>State</td>
<td>Part 1- Place of Residence</td>
</tr>
<tr>
<td>State-County</td>
<td>Part 2- Place of Work</td>
</tr>
<tr>
<td>State-County-MCD</td>
<td>Part 3- Flows between Home and Work</td>
</tr>
<tr>
<td>State-Place</td>
<td></td>
</tr>
<tr>
<td>State-PUMA</td>
<td></td>
</tr>
<tr>
<td>State-POW PUMA</td>
<td></td>
</tr>
<tr>
<td>Metropolitan Statistical Area</td>
<td></td>
</tr>
<tr>
<td>MSA – EACH Principal City</td>
<td></td>
</tr>
</tbody>
</table>

Product documentation available at:
3-year CTPP Product Summary

• Based on CTPP 2000 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

Slide prepared by U.S. Census Bureau and CTPP partners.
Accessing the 3-year data

- 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:

Slide prepared by U.S. Census Bureau and CTPP partners.
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
- Local-based worker flow tables WILL be produced with 06-10 ACS.
  - design undergoing reviews
- Release uncertain but expected in 2013 or before

Slide prepared by U.S. Census Bureau and CTPP partners.
Key CTPP Contact

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  pweinberger@aashto.org

http://ctpp.transportation.org

Slide prepared by U.S. Census Bureau and CTPP partners.
LEHD On the Map

Updates:

• Version 5 release set for Dec 13, 2010.
  – Possible additions:
    • Race & Ethnicity, Educational Attainment
    • Spoke and Radar charts to show direction and magnitude of commuting

• MA and NH are close to joining LEHD partnership
  – We’ll finally have their data integrated!
Web Links

- **American FactFinder**
  - [http://factfinder.census.gov](http://factfinder.census.gov)

- **LEHD On the Map**
  - [http://lehd.did.census.gov/led/datatools/onthemap4.html](http://lehd.did.census.gov/led/datatools/onthemap4.html)

- **American Community Survey**
  - [http://www.census.gov/acs](http://www.census.gov/acs)

- **Census Transportation Planning Products**
  - [http://ctpp.transportation.org](http://ctpp.transportation.org)
Thank you!

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