Mapping Poverty and Mobility Patterns in Baltimore City

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ACS Data Users Group Conference
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Migration

• ACS collects data every month and asks about residence one year earlier.
• Many Census resources for State-to-State and County-to-County migration
  – Detailed Tables
  – Census Flows Mapper
Census Flows Mapper

Census Flows Mapper

Search for a county or click on the map.

Baltimore city, Maryland

Choose a dataset.

2007-11
2006-10

Choose type of migration flow.

Net  Outbound  Inbound

Choose a characteristic.

Total

Choose colors.

Choose number of movers.

Range: -5,472 to 467

Version 1.1

Census Flows Mapper

Total net migration flows for Baltimore city, Maryland

Baltimore city, Maryland

Population (1 yr and over): 611,898
Movers from a different state: 15,687
Movers to a different state: 16,413
Movers from a different county, same state: 19,684
Movers to a different county, same state: 28,125
Movers from abroad: 3,771

United States Census Bureau

American Community Survey Estimates

Baltimore
American Community Survey Data on Geographical Mobility/Migration

The American Community Survey (ACS) is an annual national survey collected monthly which provides communities with reliable and timely demographic, housing, social, and economic data every year.
Annual data on Migration is used to determine the extent of residential mobility of the population for the U.S., states, metropolitan areas, and more specific geographical areas that meet minimum population sizes for the given survey year. Data are available from 2000 to the present.

Data Tables, Products and Reports

State-to-State Migration Flows

County-to-County Migration Flows

The Migration of Military Spouses using the 2007-2011 5-Year American Community Survey [PDF - 283K]

Geographical Mobility: 2008 to 2009

- Report [PDF - 118K]

Lifetime Mobility in the United States: 2010 (ACS)

- Report [PDF]


Domestic Migration Flows for States from the 2005 ACS [PDF - 141K]

Available Tabulations

There are more than 23 annual recurring tables on American FactFinder migration available from American FactFinder since 2000.

Five-year estimates for census tracts and larger are available beginning in 2010 (for data years 2005-9).

Other Technical Papers and Presentations

Comparison of ACS and ASEC Data on Geographical Mobility: 2004 [PDF - 93K]

Calculating Migration Expectancy Through example and worksheet, this site explains how to calculate estimates on the average number of moves people make in a lifetime.
Migration by Census Tracts

• 2005-2009 5-year ACS (No Characteristics).
• 2006-2010 5-year ACS (Crossed by Age, Sex, Race, or Hispanic or Latino Origin).
• 2007-2011 5-year ACS (Crossed by Educational Attainment, Household Income, or Individual Income, Poverty).
• Variable: B07012
Intersecting Migration and Poverty

Migration

• Current Residents
  – Living in Same House 1 Year Ago
  – Different House 1 Year Ago
    • In Baltimore City
    • In Different County in Maryland
    • In Different State

Poverty

• Below Poverty
• 100-149% Poverty
• 150% and Above Poverty
What Questions Can We Answer?

• How many current residents lived in a different house in Baltimore City? Another county in Maryland? Another state? \textit{(Recent Movers)}

• How many recent movers have incomes below poverty? \textit{(Recent Movers Below Poverty)}

• How many current residents with incomes below poverty are recent movers? \textit{(Below Poverty Recent Movers)}
Data Downloaded (and Calculated)
## Recent Movers

<table>
<thead>
<tr>
<th>Tracts</th>
<th>Total Current Residents</th>
<th>Total Current Residents Below Poverty</th>
<th>Total Moved in U.S.</th>
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</thead>
<tbody>
<tr>
<td>101</td>
<td>2619</td>
<td>322</td>
<td>726</td>
<td>286</td>
<td>27.7%</td>
<td>39.4%</td>
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<td>223</td>
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*Note: The data is from a Microsoft Excel spreadsheet titled 'Mobility.xlsx.' The calculation formula '=L2/B2' is used to calculate the percent total movers.*
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*Note: The table above shows the number of movers below poverty for different tracts in Baltimore.*
### Below Poverty Movers

![Excel Spreadsheet Image]

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*Source: Baltimore Mobility*
<table>
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<tr>
<td>0.0% - 19.6%</td>
</tr>
<tr>
<td>19.7% - 41.4%</td>
</tr>
<tr>
<td>41.5% - 88.8%</td>
</tr>
</tbody>
</table>

Tract 101
What Can This Tell Us??

**Percent Movers**
- Highly transitional neighborhoods

**Percent Movers Below Poverty**
- Areas where the majority of movers have incomes below poverty
  - Might reflect patterns of poverty

**Percent Below Poverty Movers**
- Current residents with incomes below poverty are recent movers, indicating neighborhood change

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<td>1204</td>
<td>43.2%</td>
<td>24.8%</td>
<td>38.2%</td>
</tr>
<tr>
<td>2711.02</td>
<td>0.2%</td>
<td>100.0%</td>
<td>2.4%</td>
</tr>
<tr>
<td>2803.02</td>
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<td>2713</td>
<td>7.7%</td>
<td>15.3%</td>
<td>71.7%</td>
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Tableau

• Free Data Visualization Tool
• Create data visualizations and dashboards that can be embedded in a website or shared
• No need for coding
• Tutorials and user community
Baltimore City CSAs

- Aggregate
  - 200 census tracts TO
  - 55 CSAs

- Why?
  - Easier to see patterns
  - Common neighborhood names
Visualization Components

• Filled Maps with Custom Boundaries
  – Custom boundaries based on lat/long using ET GeoWizards
  – TabGeoHack and GDAL
  – shape2tab

• Worksheets and Dashboards

• Actions
Poverty and Mobility in Baltimore City

Community Statistical Area (CSA)

(All)

Percent Residents Living in a Different House Last Year (2011)

<table>
<thead>
<tr>
<th>CSA</th>
<th>Percent Residents Living in a Different House Last Year</th>
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<tr>
<td>Allendale/Irvington/S. Hilton</td>
<td>14.2%</td>
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<tr>
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Percent of Movers with Incomes Below Poverty (2011)

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<td>Allendale/Irvington/S. Hilton</td>
<td>30.6%</td>
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</tbody>
</table>

Source: ACS 2007-2011 5-Year Estimates

http://public.tableausoftware.com/shared/SJDC62RW7?:display_count=no
Contact

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nichole@wherethejobsare.com