Demographic Trends in the U.S. and Missouri: Implications for Urban Extension

September 2010

Columbia, Missouri

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OESEDA...

Http://WWW.OSEDA.MISSOURI.EDU

- Data
- Information
- Knowledge
- Wisdom

“The construction of knowledge involves more the orderly loss of information than it’s meaningless accumulation.”

-- Kenneth Boulding
The context of population change in the U.S.

Population for States and Puerto Rico: July 1, 2009

Total Population 2009
World: 6.8 Billion
U.S.: 307 Million
Mo.: 5,987,580
Population Change

Numeric Change in Population for States and Puerto Rico:
April 1, 2000 to July 1, 2009

Missouri 381,515 7%
US 24,834,593 9%

Total Population 2009
World: 6.8 Billion
U.S.: 307 Million
Mo.: 5,987,580

Change in population
1,000,000 or more
750,000 to 999,999
500,000 to 749,999
250,000 to 499,999
Less than 250,000

Source: U.S. Census Bureau, Population Division, 2009
Relative Concentrations of Growth

Numeric Change in Population for States and Puerto Rico:
April 1, 2000 to July 1, 2009

U.S. Increase 24.8 Million (8.8%)
Six States account for 55%
In Missouri nearly 80% of us live on about 3% of our land.
Diverse Trends: Regions within Regions – and within urban areas

Percent Change in Population for Counties and Puerto Rico Municipios: April 1, 2000 to July 1, 2009

Office of Social and Economic Data Analysis

University of Missouri Extension
Core Based Statistical Areas

Figure 1a. Percent Change in Metropolitan and Micropolitan Statistical Area Population: July 1, 2008 to July 1, 2009

Source: U.S. Census Bureau, Population Division
Census

• Core Based Statistical Areas (land)
• Metropolitan Areas (county level)
  – “non-metropolitan” everything not Metro
• Urbanized Areas (block level)
  – “rural” everything not “urban”
• “Micropolitan” Areas” part of Non-Metro
• For Details Google OSEDA
  – MCDC and John Blodgett
Census

• 97.4% of the land area in the state of Missouri is classified as “rural”
• 30.6% of the population is classified as living in rural areas.
• Almost 70% of the population of MO lives in 2.6% of the land that is Metro
• Nationwide, the same 97.4% of the land area is rural, but nearly 80% of the population lives in Metro America.
<table>
<thead>
<tr>
<th>Category</th>
<th>2009 Count</th>
<th>Proportion</th>
<th>2000-2009 Change</th>
<th>Pct Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Missouri</td>
<td>5,987,580</td>
<td>100.0%</td>
<td>392,369</td>
<td>7.0%</td>
</tr>
<tr>
<td>Metro</td>
<td>4,509,800</td>
<td>75.3%</td>
<td>357,792</td>
<td>8.6%</td>
</tr>
<tr>
<td>&quot;Mirco&quot;</td>
<td>694,120</td>
<td>11.6%</td>
<td>36,116</td>
<td>5.5%</td>
</tr>
<tr>
<td>&quot;Rural&quot;</td>
<td>783,660</td>
<td>13.1%</td>
<td>(1,539)</td>
<td>-0.2%</td>
</tr>
</tbody>
</table>
Patterns of growth -- urban flows

Percent Change in Total Population by County, 2000-2009

Map Prepared By: University of Missouri Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated On: 15 Jun 2010
Other data that shows urban concentration

K-12 Relative Density of Student Enrollment by School District, 2010

Relative Density of Students
-1.5 - -0.8
-0.7 - -0.3
-0.2 - 0.0
0.1 - 3.2
3.3 - 6.2
6.3 - 10.7

Data Source: Department of Elementary and Secondary Education, 2010
Map Prepared By: University of Missouri Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated On: 21 Sep 2010
K-12 Relative Density of Student Enrollment by School District, 2010 with Dot Density Overlay

Dots make the concentration more apparent

Density of Students

1 Dot = 10 Students

Relative Density of Students
-1.5 - -0.8
-0.7 - -0.3
-0.2 - 0.0
0.1 - 3.2
3.3 - 6.2
6.3 - 10.7

Data Source: Department of Elementary and Secondary Education, 2010
Map Prepared By: University of Missouri Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated On: 21 Sep 2010
Be Careful with Census Estimates

On the Brink of New Data

• New 2009 *American Community Survey* (ACS) Data – within days
• New (5 year) ACS in December
• New 2010 counts in December
• New Definitions of Metros and Urban Areas in @ 2012

• *Be careful with small area variability*
Many Urban Challenges… For example…

A few of the Urban Challenges

• Hispanic Growth – not just rural areas
• Educational Issues
• Your list for extension work…..
  – Communities of interest
  – Connections to stakeholders
  – Cultural and class connections
    – Building social capital (networks)
Urban Challenges ... Reaching Important Stakeholder Groups

African American Population, 2009

Legend
- 1 Dot = 10 People

Missouri = 713,001

Data Source: U.S. Census Bureau, Population Division, Population Estimates, 2010
Map Prepared By: University of Missouri Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated On: 28 Sep 2010
Percent Change in African American Population, 2000-2009

Missouri = 9.3%

Data Source: U.S. Census Bureau, Population Division, Population Estimates, 2010
Map Prepared By: University of Missouri Extension, Office of Social and Economic Data Analysis (OSEDА)
Map Generated On: 28 Sep 2010
Latinos are important part of our urban growth

Growth of the Hispanic Population in Missouri impacts urban as well as rural areas.

Data Source: U.S. Census Bureau, Population Division, Population Estimates, 2010
Map Prepared By: University of Missouri Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated On: 23 Sep 2010
### Missouri Population Change 2000-2009

<table>
<thead>
<tr>
<th></th>
<th>2000</th>
<th>2009</th>
<th>Change</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>5,606,065</td>
<td>5,987,580</td>
<td>381,515</td>
<td>6.8%</td>
</tr>
<tr>
<td><strong>Hispanic</strong></td>
<td>119,740</td>
<td>203,907</td>
<td>84,167</td>
<td>70.3%</td>
</tr>
<tr>
<td><strong>Non-Hispanic</strong></td>
<td>5,486,325</td>
<td>5,783,673</td>
<td>297,348</td>
<td>5.4%</td>
</tr>
<tr>
<td><strong>Hispanic Percent</strong></td>
<td>2.1%</td>
<td>3.4%</td>
<td>22.1%</td>
<td></td>
</tr>
</tbody>
</table>
Latinos are important component of our growth

Location of the Latino Population, 2008
### Trends from education data

<table>
<thead>
<tr>
<th>Missouri Public School Enrollment</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year</strong></td>
<td>2005</td>
<td>2009</td>
<td>Change</td>
<td></td>
</tr>
<tr>
<td><strong>Total Enrollment</strong></td>
<td>894,809</td>
<td>892,279</td>
<td>-2,530</td>
<td>-0.3%</td>
</tr>
<tr>
<td>**Hispanic (Number</td>
<td>Percent)**</td>
<td>25,166</td>
<td>33,994</td>
<td>8,828</td>
</tr>
<tr>
<td></td>
<td>2.8</td>
<td>3.8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Inadequate Prenatal Care**

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>Number</th>
<th>Rate (per 100)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hispanic</td>
<td>803</td>
<td>18.7</td>
</tr>
<tr>
<td>Non-Hispanic</td>
<td>8,328</td>
<td>11.5</td>
</tr>
<tr>
<td>All</td>
<td>9,150</td>
<td>11.9</td>
</tr>
</tbody>
</table>

Source: Missouri Department of Health and Senior Services (MICA)
The Number of Missouri High School Dropouts Increased by 3,162 or 36% from 2004 to 2008

Missouri High School Dropouts 2004-2008 By Race and Ethnicity

Source: DESE, 2009 School Data
Overall, Missouri rates increased modestly. Black & Hispanic rates are higher and increasing.
Educational Issues – building expectations

From the “Employer” Report: Returns to Associate Degrees

Average Wage (2008Q3) for College Graduates - Associates Degree Completers by Subject

- Health Professions: $8,203
- Industrial Arts: $7,627
- Computer Science: $6,704
- Engineering Technologies: $6,254
- Business Management: $4,454
- Communication, Technologies: $4,298
- Security Professions: $3,934
Educational Issues – building expectations

From the “Employer” Report: Returns to Bachelor Degrees

Average Wages (2008Q3) for College Graduates - Bachelors Degree Completers by Subject

- Engineering: $11,197
- Health Professions: $8,949
- Computer Science: $8,902
- Engineering Technologies: $8,250
- Business Management: $6,459
- Liberal Arts: $6,144
- Math and Statistics: $5,797
- Communication, Technologies: $5,658
- Architecture: $5,555
- Agriculture: $5,433
- Natural Resources: $5,040
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