Missouri Department of Transportation

“MoDOT Senior Management Team Presentation”
by
Dr. Daryl J. Hobbs

December 14, 2004

http://www.oseda.missouri.edu
New 2002 town population estimates for Missouri have been released.

One new metropolitan area has been added to Missouri and 12 counties reclassified as metropolitan.

New 2002 county-level population estimates reveal significant shifts in Missouri’s population since the census was taken on April 1, 2000. The state's population increased by 1.4 percent compared to a national growth rate of 2.5 percent over the same period. Data are available at the Missouri Census Data Center.  [Press Release]

Missouri and the Nation The goal of OSEDA has always been to provide Missouri citizens with up-to-date information about what is happening in their localities – communities, school districts, places and counties. However, we have found that there is growing interest among OSEDA users in how Missouri
Percent Change in Total Population, 1980-1990
U.S. Counties

Percent Change
- Declined/No Change
- 0 - 10
- 10 or More

U.S. = 9.8%

Source: USDC, Bureau of the Census, Census of Population and Housing [1990 SF3; 1980 STF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 4 04 03
Percent Change in Total Population, 1990-2000
U.S. Counties

Percent Change
- Declined/No Change
- 0 - 10
- 10 or More

U.S. = 11.1%

Source: USDC, Bureau of the Census, Census of Population and Housing [2000 SF1; 1990 STF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 9.11.02
New Economic Development Considerations

1. Globalization
2. Revolution in Telecommunications
3. Cost of Living
4. Quality of Life
Missouri: Not Middle America, the Middle of America
### Number of Missouri Local Governments by Type - States: 1997

<table>
<thead>
<tr>
<th></th>
<th>Missouri</th>
<th>U.S.</th>
<th>Missouri National Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Governmental Units</td>
<td>3,416</td>
<td>87,453</td>
<td>6th</td>
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<tr>
<td>Counties</td>
<td>114</td>
<td>3,043</td>
<td>4th</td>
</tr>
<tr>
<td>Municipalities</td>
<td>944</td>
<td>19,372</td>
<td>5th</td>
</tr>
<tr>
<td>School Districts</td>
<td>537</td>
<td>13,726</td>
<td>9th</td>
</tr>
<tr>
<td>Special Districts</td>
<td>1,497</td>
<td>34,683</td>
<td>6th</td>
</tr>
</tbody>
</table>

Change in Population 1980-2000

• Missouri’s population increased from 4,917,000 in 1980 to 5,117,000 in 1990 – an increase of 4.1 percent.

• Population increased from 5,117,000 in 1990 to 5,595,000 in 2000 – an increase of 9.3 percent – more than double the increase during the 1980s.

• However, national population which increased by 9.8 percent during the 1980s increased by 13.1 percent in 2000. There were 29 states whose population increased by a larger percentage than Missouri during the 1990s.

• Therefore, even though Missouri population increased by more than twice the rate in the 1990s than during the 1980s, it dropped from being the 15th most populated state in 1990 to 17th in 2000.
Percent Population Change in Missouri, by County
1990 to 2000

Source: USDC, Bureau of the Census, Census of Population and Housing [2000 SF1; 1990 STF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 2.19.2002

Missouri = 9.3%
Natural Increase in Total Population in Missouri, by County
1990 to 2000

Total Population
-828 - 0 (43)
1 - 1,000 (47)
1,001 - 5,000 (16)
5,001 - 25,000 (6)
25,001 - 44,098 (3)

Missouri = 219,553

Source: USDC, Bureau of the Census, Census of Population and Housing [2000 SF1; 1990 SF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated on 12.11.2004
Net Migration in Total Population in Missouri, by County
1990 to 2000

Source: USDC, Bureau of the Census, Census of Population and Housing [2000 SF1; 1990 STF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 12.11.2004
Population Change
2000-2003
Percent Change in the Population, by County, 2000-2003

Percent Change

-4.7 - 0.0 (47)
0.1 - 2.5 (36)
2.6 - 5.0 (21)
5.1 - 13.5 (12)

Missouri = 1.9%

Source: USDDC, Bureau of the Census, Federal State Cooperative for Population Estimates
Prepared by: University of Missouri Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 12.11.2004
Natural Increase in Total Population in Missouri, by County
2000 - 2003

Total Population
-315 to 0 (45)
1 to 149 (29)
150 to 499 (19)
500 to 13,382 (22)

Missouri = 64,686

Source: USDC, Bureau of the Census, Federal State Cooperative for Population Estimates
Prepared by: University of Missouri Extension, Office of Social and Economic Data Analysis (OSEA)
Map Generated on 12.11.2004
Percent Natural Increase* in Missouri, by County
2000-2003

Source: USDC, Bureau of the Census, Federal State Cooperative for Population Estimates
Prepared by: University of Missouri Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 05.27.2004

* Natural Increase as a percent of 2000 adjusted population
Net Migration in Total Population in Missouri, by County 2000-2003

Total Population
-20,154 to 0 (45)
1 to 499 (37)
500 to 999 (9)
1,000 to 19,649 (24)

Missouri = 43,115

Source: USDC, Bureau of the Census, Federal State Coope for Population Estimates
Prepared by: University of Missouri Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 12.11.2004
Total Population Estimates by Year, 1990-2003
Missouri

SOURCE: Federal-State Cooperative Program for Population Estimates
Produced by: University Outreach and Extension – Office of Social and Economic Data Analysis
Change in Total Population Estimates by Year
1990-2003
Missouri

SOURCE: Federal-State Cooperative Program for Population Estimates
Produced by: University Outreach and Extension – Office of Social and Economic Data Analysis
Open Country Population Change 1990 - 2002
Percent Change in Open Country Population
1990 - 2000

Percent Change
- Declined (18)
- 0 to 10 (25)
- 10 to 25 (52)
- 25 or More (19)

Missouri = 9.3%
Open Country = 12.3%
Town and City = 8.1%

Source: USDC, Bureau of the Census, Census of Population and Housing [2000 SF1; 1990 STF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 12.13.2004
Open Country Population as a Percent of Total County Population
2000

Percent of Population
- Less than 30 (18)
- 30 to 60 (61)
- 60 or More (36)

Missouri = 31.0%

Source: USDC, Bureau of the Census, Census of Population and Housing [2000 SF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 12.11.2004
Counties That Produce Fifty Percent of the Agricultural Sales 2002

Source: USDA, Census of Agriculture (2002)
Produced by: University of Missouri Extension, Office of Social and Economic Data Analysis
Map generated on 12.13.2004
Counties with Increase in Open Country Population 2000-2002

Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated on 12.13.2004
Percent of Farms with Commodity Sales of Less than $50,000 2002

Missouri = 84.7%

Source: USDA, Census of Agriculture (2002)
Produced by: University of Missouri Extension, Office of Social and Economic Data Analysis
Map generated on 12.13.2004
Percent of Farms and of Market Value of Agricultural Products Sold: 2002

- **$500 or More**: 1.5% (Farms), 40% (Sales)
- **$250 to 499.9**: 2.4% (Farms), 17.5% (Sales)
- **$100 to 249.9**: 4.9% (Farms), 16.9% (Sales)
- **$50 to 99.9**: 6.5% (Farms), 9.8% (Sales)
- **$10 to 49.9**: 12.3% (Farms), 25.7% (Sales)
- **Less than $10**: 3.5% (Farms), 59% (Sales)

**Source:** U.S. Department of Agriculture, 2002 Census of Agriculture; USDC, Bureau of the Census
Population Change
1990 - 2000
~ Age of the Population ~
Percent Change in Missouri Population by Age Cohorts, 1990-2000

Produced by: The Office of Social and Economic Data Analysis, UOE [E.J. Cleveland, Nov. 2001]
Percent Change in Population Under Age 5
In Missouri, by County 1990 - 2000

Percent Change
-35.4 - 0.0 (50)
0.1 - 15.0 (40)
15.1 - 79.7 (25)

Missouri = .2%

Source: USDC, Bureau of the Census, Census of Population and Housing [2000 SF1; 1990 STF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 12.11.2004
Percent Change in Population Age 25 to 34 Years
In Missouri, by County  1990 - 2000

Percent Change

-35.2 - 0.0  (100)
0.1 - 10.0   (7)
10.1 - 51.2  (8)

Missouri = -13.3%

Source: USDC, Bureau of the Census, Census of Population and Housing [2000 SF1; 1990 STF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDAG)
Map Generated on 12.11.2004
Percent Change in Population Age 35 to 54 Years
In Missouri, by County 1990 - 2000

Percent Change
- 7.2 - 25.0 (38)
- 25.1 - 35.0 (37)
- 35.1 - 50.0 (29)
- 50.1 - 88.0 (11)

Missouri = 29.6%

Source: USDC, Bureau of the Census, Census of Population and Housing (2000 SF1; 1990 STF1)
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated on 12.11.2004
Percent Change in School Enrollment
Missouri

SOURCE: Missouri Department of Elementary and Secondary Education
Produced by: University Outreach and Extension – Office of Social and Economic Data Analysis (6/26/03)
Annual Numerical Change in Total School Enrollment by Year, 1991-2003 (in thousands)

Missouri

SOURCE: Missouri Department of Elementary and Secondary Education
Produced by: University Outreach and Extension – Office of Social and Economic Data Analysis (6/26/03)
Percent Change in Student Enrollment by School District, 1991 - 1995

Source: Department of Secondary and Elementary Education, Gradelevel CORE Data, September Enrollments, 1991 - 2003
Prepared for DESE by: Office of Social and Economic Data Analysis (OSEDA)
Map Generated on 6.26.2003
Percent Change in Student Enrollment by School District, 1996 - 2000

Percent Change

-37.8 - 0.0
0.1 - 5.0
5.1 - 10.0
10.1 - 30.0
30.1 - 143.4

Source: Department of Secondary and Elementary Education, Gradelevel CORE Data, September Enrollments, 1991 - 2003
Prepared for DESE by: Office of Social and Economic Data Analysis (OSEDA)
Map Generated on 6.26.2003
Percent Change in Student Enrollment by School District, 2001 - 2003

Source: Department of Secondary and Elementary Education, Gradelevel CORE Data, September Enrollments, 1991 - 2003
Prepared for DESE by: Office of Social and Economic Data Analysis (OSEDA)
Map Generated on 6.26.2003
Change in the Older Population and the Impact of Transfer Payments
Percent Change in Population Age 55 to 64 Years
In Missouri, by County 1990 - 2000

Source: U.S. Census Bureau, Census of Population and Housing [2000 SF1; 1990 SF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated on 12.11.2004
Percent Change in Population Age 65 Years and Older, by County 1990 - 2000

Percent Change

-27.5 - 0.0 (58)
0.1 - 20.0 (46)
20.1 - 69.2 (11)

Missouri = 5.3%

Source: U.S. Census Bureau, Census of Population and Housing [2000 SF1; 1990 STF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated on 12/11/2004
Transfer Payments as a Percent of Total Personal Income 2002

Transfer payments have become an important part of income, especially in many rural counties. Transfer payments are a part of personal income for those persons who are entitled to them. In fact, those payments are often referred to as entitlements. They include such well known programs as Social Security, Medicare, Medicaid, unemployment compensation, etc. The types of payments are shown on the following graph which indicates that 39 percent of total transfer payments are retirement and disability insurance benefit payments and 42 percent are medical payments.

Together, Retirement and Disability payments and Medical payments account for more than 80 percent of total transfer payments.

The map shows there are 87 counties in which transfer payments account for more than 20 percent of total county personal income. In 19 of those counties transfer payments account for more than 30 percent of total personal income. It is generally in smaller rural counties in which transfer payments account for more than 20 percent of personal income. The greatest concentrations of those counties are in rural north and rural southeast.
Missouri Transfer Payments by Type, 2002

- Medical payments: 42%
- Retirement and disability insurance benefit payments: 39%
- Income maintenance benefit payments: 8%
- Veterans benefit payments: 2%
- Unemployment insurance benefit payments: 3%
- All other payments: 6%

Source: USDC, Bureau of Economic Analysis, Regional Economic Information System
Produced by: University of Missouri, Office of Social and Economic Data Analysis
Racial Minorities
Racial Minority Population as a Percent of Total Population by County, 2000

Source: USDC, Bureau of the Census, Census of Population and Housing [2000 SF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Regenerated on 12.11.2004
Percent Change in Racial Minority Population by County
1990 - 2000

Percent Change

-2.9 - 0.0 (3)
0.1 - 50.0 (27)
50.1 - 100.0 (23)
100.1 - 250.0 (48)
250.1 - 1677.5 (14)

Missouri = 36%

Source: USDC, Bureau of the Census, Census of Population and Housing [2000 SF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Regenerated on 12.11.2004
Latino Population
Number Change in Missouri's Hispanic Population, by County
1990 - 2000

Number Change
-75 - 0 (2)
1 - 100 (62)
101 - 300 (24)
301 - 16,270 (27)

Missouri = 56,890

Source: USDC, Bureau of the Census, Census of Population and Housing [2000 SF1; 1990 STF1]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated on 12/11/2004
## Missouri Hispanic Population, 1990-2000

<table>
<thead>
<tr>
<th></th>
<th>Hispanic Population</th>
<th>Change</th>
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<tbody>
<tr>
<td>Missouri</td>
<td>118,592</td>
<td>61,702</td>
<td>56,890</td>
<td>92.2</td>
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<tr>
<td>Total Metropolitan Areas*</td>
<td>88,137</td>
<td>49,315</td>
<td>38,822</td>
<td>78.7</td>
</tr>
<tr>
<td>Non-Metropolitan Counties</td>
<td>30,455</td>
<td>12,207</td>
<td>18,248</td>
<td>149.5</td>
</tr>
<tr>
<td>Top 8 Agriculture Producing Counties**</td>
<td>6,638</td>
<td>815</td>
<td>5,823</td>
<td>714.5</td>
</tr>
<tr>
<td>Remainder of Non-Metro Counties</td>
<td>23,817</td>
<td>11,392</td>
<td>12,425</td>
<td>109.1</td>
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</tbody>
</table>

**NOTE:**
* Newton is a metropolitan county but is included in the Top 8 agriculture producing counties
** The eight Missouri counties having the greatest agricultural commodity sales also had the greatest non-metro Hispanic population increases during the 1990s

Source: USDC, Bureau of the Census, "Census of Population and Housing"
Hispanic School Enrollment in McDonald County by School Year

Year

2000
1998
1996
1994
1992
1990

Enrollment

0 50 100 150 200 250 300 350 400 450

SOURCE: Missouri Department of Elementary and Secondary Education, Core Data
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis – (OSEDA)
Chart Generated on 3.5.2002
Regions
New Core Based Statistical Areas
The Missouri Census Data Center has created a report that shows the just released definitions of Core Based Statistical Areas for Missouri. The CBSA's are a replacement for the metropolitan areas. We still have entities called MSA's (Metropolitan Statistical Areas) but the criteria for defining them has changed. It changed just enough to allow Jefferson City to now be classified as an MSA even though it does not have a central city of 50,000. Instead it has a "core area" with 50,000 people and it doesn't matter whether this population cluster happens to all fall within an incorporated place. Entirely new micropolitan areas have also been created based on the same concept as MSA's except the core area does not have to be as large. Missouri has lots of these.
REGIONALIZATION

- WORK
- RETAIL TRADE
- HEALTH CARE
- IMPLICATIONS
  - Community
  - Public Finance
Location of WAL-MART Stores in Missouri

* Not all city stores are included.

- Super Center
  - Wal-Mart stores
- Wal-Mart stores

Source: Dr. Daryl Hobbs, University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 3.12.2003
Physicians per 10,000 Population, by County - 2000

Source: Lanis Hicks, UM Health Management and Informatics. DHSS Manpower Database 1980 - 2000
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 12.12.2004
Taxable Sales Per Capita 2003

Dollars
- 52 - 2,499
- 2,500 - 4,299
- 4,300 - 5,999
- 6,000 - 122,556

* 2003 Taxable Sales for first six months divided by total population estimate 2002.

Source: Missouri State Department of Revenue
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 9.8.2003
Bank Deposits Per Capita Dollars by County 2000

Per Capita Dollars
- Less than $10,000 (31)
- $10,000 to $15,000 (61)
- $15,000 or More (23)

Missouri = $13,480

Source: Federal Deposit Insurance Corporation [2000]
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 12.12.2004
CONSIDERATIONS REGARDING REGIONS

➢ All Economies are Regional
➢ Regional Centers are vital to regional viability:
  • They are essential to growth but not necessarily the location of growth.
  • The population of a place is not necessarily the determining factor in whether it is a regional center or not.

➢ Missouri is one of the most economically, geographically and culturally diverse states in the U.S
  • It would facilitate planning and delivery of services if regional boundaries were drawn so that counties within a region were relatively homogeneous while the differences between regions would be relatively great. That would facilitate more effective targeting of training and educational services.
  • Ironically regional centers are more alike than the regions they serve.

➢ Transportation routes are a consideration in establishing regional boundaries. A concern is accessibility and it is easier to get to some regional centers from one direction than another.
Employment
Percent Change in Total Full-Time and Part-Time Employment
1990 - 2000

Missouri = 17.4%

Source: USDC, Bureau of Economic Analysis, Regional Economic Information System
Produced by University Outreach and Extension, Office of Social and Economic Data Analysis
Map generated on 12.11.2004
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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Number</td>
<td>Number</td>
<td>Number Change</td>
<td>Percent Change</td>
</tr>
<tr>
<td>Less Than 20 Employees</td>
<td>112,835</td>
<td>122,782</td>
<td>127,098</td>
<td>9,947</td>
<td>8.8%</td>
</tr>
<tr>
<td>20 to 99 Employees</td>
<td>14,460</td>
<td>15,962</td>
<td>17,443</td>
<td>1,502</td>
<td>9.4%</td>
</tr>
<tr>
<td>100 or More Employees</td>
<td>2,992</td>
<td>3,334</td>
<td>3,436</td>
<td>342</td>
<td>10.3%</td>
</tr>
</tbody>
</table>
Percent Change in Average Wages Per Job 1990 to 2002

Percent Change
-21.5 - 0.0 (28)
0.1 - 10.0 (43)
10.1 - 20.0 (38)
20.1 - 60.1 (6)

Source: BEA REIS Database as released in 2004
*All wages were in constant 2002 dollars
Percent Change in Number of Establishments Employing 100 or More Employees - 1990 to 2002

Source: Bureau of the Census, County Business Patterns (1990 and 2002)
Percent of Farms with Market Value of $500,000 or More
2002

Missouri = 1.5%

Source: USDA, Census of Agriculture (2002)
Produced by: University of Missouri Extension, Office of Social and Economic Data Analysis
Map generated on 08.25.2004