Overview

• Population and Economic Change

• The American Community Survey

• Discussion..
This Morning
November 15th:
U.S. 303,371,655
World 6,631,286,787

Population Change 2000-2006

U.S.: 299,398,484 (6.4%)
Missouri: 5,842,713 (4.4%)
Dark Green States > 12%

Five states account for 50% of the nation’s population growth since 2000

OSEDA Office of Social and Economic Data Analysis

University of Missouri Extension
Percent Change in Population for Counties and Puerto Rico Municipalities: April 1, 2000 to July 1, 2006
Percent Change in Missouri Population by County, 2000 - 2006

Percent Change

-8.2% - 0.0% (35)
0.1% - 4.9% (46)
5.0% - 9.9% (24)
10.0% - 29.9% (10)

Missouri = 4.4%
U.S. = 6.4%

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) in collaboration with the Missouri Census Data Center (MCDC)
Map Generated on 22 March 2007
Natural Change in Missouri Population by County, 2000 - 2006

Change
-555 - 0 (40)
1 - 499 (42)
500 - 999 (9)
1,000 - 26,575 (24)

Missouri = 137,564

Prepared by: University of Missouri Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated on 3/8/2007
Net Migration of Missouri Population by County, 2000 - 2006

Net Migration
-32,390 - 0 (40)
1 - 499 (35)
500 - 999 (10)
1,000 - 38,535 (30)

Missouri = 108,466

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 30 March 2007
Employment in Missouri increased by 33,100 from April 2006 to April 2007, seasonally adjusted.

Unemployment Rates - September 2007
Not Seasonally Adjusted

Unemployment Rate
- 7.4 - 10.2
- 6.3 - 7.3
- 5.2 - 6.2
- 4.6 - 5.1
- 3.7 - 4.5

State Avg: 5.1%

Office of Social and Economic Data Analysis
University of Missouri Extension
Opportunities in Economic Change

• “The Perfect Storm”
• “The Kauffman *New Economy* Report”
• How *Flat* is our world?
How flat the world is depends on where you're standing.

- *The World is Flat* – “new oil wells”
  -- Thomas Friedman

- *Making Globalization Work*
  -- Joseph Stiglitz

- *Networking Diverse Assets, especially human capital…”collaboration” is hard*
• Divergent skill distributions
• The changing economy
• Demographic shifts
• **Divergent skill distributions**
  – Flat NAEP scores
  – High school graduation slacking
  – Poor literacy and math skills
  – Race and ethnic gaps
The changing economy

- Declining manufacturing – more service
- Two thirds of job growth has been associated with college-level jobs
- College grads earn 51% more than H.S. grads
- Earning premiums reward education & skill
• **Demographic shifts**
  – Labor force will grow more slowly
  – Impact of the *baby boom*
  – Dependence on *International migration*
  – Increasing Hispanic population – with lower levels of educational attainment
Missouri Declined
- 28th in 2002
- 35th in 2007
“The New Economy”

• Dynamic Markets
• Global Competition
• Networked Organizations
• Flexible Production
• Intellectual Property and Knowledge
• Digitization – Broadband…
• Broad and Changing Skill Sets
• Entrepreneurial
• **Collaborative Relations**
Index of Entrepreneurial Activity

- The immigrant rate to 0.37% in 2006 - native-born 0.27%
- Construction highest (1.06%) services second (0.40%)
- The rate of entrepreneurial activity decreased in the Midwest from 0.26 percent in 2005 to 0.22 in 2006.
- As a result, the Midwest had the lowest level of entrepreneurial activity of all regions for the first time in the past eleven years.

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E-Commerce

*Only* $93 Billion Retail in 2005

*only* 2.5 percent of retail

Retailers’ e-commerce sales increased by 22.2 percent. As a share of total retail sales, however, e-commerce sales remained modest—2.5 percent ($93 billion), up from 2.2 percent ($76 billion) in 2004.

May 2007

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU

**U.S. Shipments, Sales, Revenues and E-commerce: 2005 and 2004**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value of Shipments, Sales, or Revenue</th>
<th>Year to Year Percent Change</th>
<th>% Distribution of E-commerce</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2005 (Total)</td>
<td>2004 (Total)</td>
<td>E-commerce</td>
</tr>
<tr>
<td>Total *</td>
<td>19,589</td>
<td>2,400</td>
<td>18,123</td>
</tr>
</tbody>
</table>

** Selected Services data in 2000 - 2001 are not comparable due to the 2002 NAICS change.
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Issues from the “Undertaker”

- Competition
- Institutions
- Policy

*The Age of Turbulence: Adventures in a New World*

Alan Greenspan
Issues from the “Undertaker”

- Aging & Boomers
- Entitlements
- The “Conundrum”
- Globalization
- Energy
- Education
Hispanic Population in Missouri, 2006

Prepared by: University of Missouri Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated on 13 Nov 2007

Missouri = 164,194

1 Dot = 25
Percent Change in Missouri's Hispanic Population by County, 1990 - 2006

Missouri = 169%

Note:
1) Counties with less than 20 Hispanics in 1990 are excluded

Source: USDC, Bureau of the Census, (1990 STF1; 2006 Estimates)
Prepared by: University of Missouri Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated on 13 Nov 2007
Change in the Hispanic Population 2000 - 2006

- Percent Change: U.S. 6.4% -- Hispanic 25.5%.
- Hispanics (44.3 million)
- Blacks (38.3 million)
- Missouri Hispanic Population 2006
  - 164,194
  - 38.4% gain since 2000
## Enrollment Change

*Missouri Public Schools From 1.4% to 2.8% in 5 years*

<table>
<thead>
<tr>
<th></th>
<th>1999</th>
<th>2005</th>
<th>Change</th>
<th>Pct</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>896,910</td>
<td>894,855</td>
<td>-2,055</td>
<td>-0.2%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>12,633</td>
<td>25,166</td>
<td>12,533</td>
<td>99.2%</td>
</tr>
</tbody>
</table>
Percent Missouri Population Age 65+: 1990-2020

SOURCE: Census Bureau/NCHS. Projection algorithm, programming by OSEDA
Chart Prepared by: University of Missouri Extension, Office of Social and Economic Data Analysis
24March2006
In coming decades, many forces will shape our economy and our society, but in all likelihood no single factor will have as pervasive an effect as the aging of our population.
Percent of Missouri's Population, 2005:
Age 65 and Older

Source: USDC, Bureau of the Census, 2000 Decennial Census
Produced by: University of Missouri Extension, Office of Social and Economic Data Analysis
Map generated on 28 June 2007
Population Age 81 Years and Older, 2005 As A Percent of Total

Source: National Center for Health Statistics and U.S. Bureau of the Census
Prepared by: University of Missouri Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 24 April 2007
Figure 4-5.
**Labor Force Participation Rates for the Population Aged 55 to 64 by Sex: 1950 to 2003**

Note: The reference population for these data is the civilian noninstitutionalized population.

Source: Bureau of Labor Statistics, 2004c. For full citation, see references at end of chapter.
Composite County Kids Count Rank, 2006

Source: University of Missouri, Office of Social and Economic Data Analysis
Prepared by: University of Missouri Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated on: 11.8.2006
Comparative Performance of Economic Areas in Missouri


U.S. Wage Growth %

U.S. Employment Growth %

Missouri Wage Growth %

Missouri Employment Growth %

Source: MERIC


Central

Greater Kansas City

Greater Springfield

Greater St. Louis

Kansas City

Lower South Central

Lower Southeast

North Central

Northeast

Northwest

Southwest

St. Charles County

St. Louis City

St. Louis County

Upper South Central

Upper Southeast

West Central

Upper South Central

Central

Upper South Central

Central

Office of Social and Economic Data Analysis

University of Missouri Extension
Economic Share in Missouri by County, 2006

Source: MERIC
Change in Economic Share by County 1996 - 2006

Source: MERIC
New Businesses per 1,000 Population, 2006

Source: MERIC
Wage and salary employment growth by industry sector, projected 2004-2014

Missouri
Projected Employment Growth by Sector
2004-2014

Source: MERIC
DED Target Industries

- Financial Services
- Life Sciences
- Automotive
- Defense/Homeland Security
- Information Technology
- Agribusiness
- Energy
- Transportation/Logistics
What are our workforce development issues?
More than a million Missourians Moved

The Missouri percent of movers (17.8%) is slightly higher than the U.S. level (16.8%).
Median Household Income by State, 2006
(In 2006 Inflation-Adjusted Dollars)

Source: U.S. Census Bureau, 2006 American Community Survey
Prepared by: University of Missouri Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated 3 Sep 2007

U.S. Median Household Income = $48,451
Median Household Income by PUMA, 2006
(In 2006 Inflation-Adjusted Dollars)

Source: U.S. Census Bureau, 2006 American Community Survey
Prepared by: University of Missouri Extension, Office of Social and Economic Data Analysis (OSEDA)
Map Generated: 5 Sep 2007
Missouri Median Household Income

American Community Survey (Adjusted to 2006)

- 2005 $43,310 +/- $456
- 2006 $42,841 +/- $449
Change - $469 +/- $640
## Missouri Median Household Income

### American Community Survey (Adjusted to 2006)
- **2005**: $43,310 +/- $456
- **2006**: $42,841 +/- $449
- **Change**: - $469 +/- $640

*Note the differences in the 90 percent margins of error between the ACS and CPS.*

### Current Population Survey (not adj.)
- **2005**: $44,686 +/- $1,465
- **2006**: $44,487 +/- $1,647

*(None of the differences are statistically significant.)*
<table>
<thead>
<tr>
<th>ACS</th>
<th>CPS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Geography</strong></td>
<td>Nation, states, and cities and counties of 65,000 or more. Eventually, areas as small as <em>census tracts</em> using multi-year averages.</td>
</tr>
<tr>
<td><strong>Sample Size</strong></td>
<td>About 3 million addresses per year. Data are collected from about one-twelfth of the sample each month.</td>
</tr>
</tbody>
</table>
ACS Plans

- ACS data are available now for areas with populations of 65,000 or more.
- In 2008, the Census Bureau will release the three year estimates for areas with populations of 20,000 or more.
- In 2010, 5-year estimates will be released including the smallest of geographic areas - down to the tract and block group levels.
ACS Implications

- Annual small area estimates
- Annual small area social and economic characteristics
- Change more *apparent* in larger areas
- Estimates and projections reworked…
- Demand for integration and meaning

…*Google Earth* on *data steroids*…
USDA, Economic Research Service Releases State Fact Sheets
The Economic Research Service recently released state fact sheets on various indicators. The data show that while Missouri has grown in population from 2000 to 2006 by 4.4 percent, rural areas did not share fully in this growth. While urban areas of the state grew by 5 percent, the rural population grew by almost half that, with a 2.8 percent increase. This varied by geographic region of the state. (more...)

Missouri’s Migrant Students: The Invisible Population
Between one and three million year-round and seasonal farmworkers dispersed throughout the United States are employed in the U.S. food production industry. The migrant population data indicate that most agricultural workers, between 66% and 81%, are immigrants. According to Cornell University’s “Facts on farmworkers in the United States” (2001), five out of six farmworkers speak Spanish with a majority originating from Mexico. (more...)

Missouri continues overall slow population growth between 2000 and 2006
Recently released population estimates for 2006 from the U.S. Census Bureau show that Missouri’s population is continuing a slow rate of...
Future Analyses

• Math and science education
• Work force gaps …Health workforce / IT
• Career and occupational opportunities
• Rural entrepreneurship
• Gazelle *(Cheetah)* companies
• Other issues…