Missouri High School Dropout Trends: The Rates and the Demographic Context

Task Force on Dropout Prevention September 29, 2009

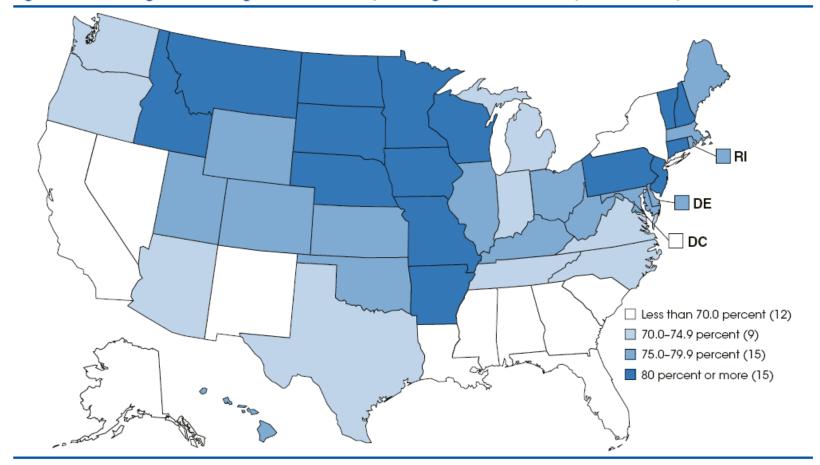
St. Louis, Missouri

Bill Elder PhD, Director Office of Social & Economic Data Analysis (OSEDA) University of Missouri

- Graduation Rates and Dropout Rates
 - --Comparative Context
 - --Disparities
- Social and Demographic Trends and Dropouts
- Economic Trends and Dropouts
- Regional Diversity in Missouri and Dropouts

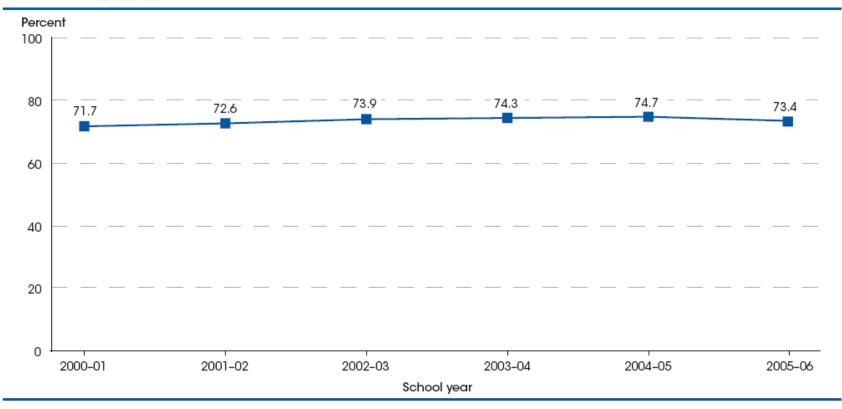
U.S. 73.4%

Figure 19-1. Averaged freshman graduation rate for public high school students, by state: School year 2005–06



Note: Not the 9th to 12th Grade Cohort Definition

Figure 19-2. Averaged freshman graduation rate for public high school students: School years 2000–01 through 2005–06



Planty, M., Hussar, W., Snyder, T., Kena, G., KewalRamani, A., Kemp, J., Bianco, K., Dinkes, R. (2009). *The Condition of Education 2009* (NCES 2009-081). National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. Washington, DC.

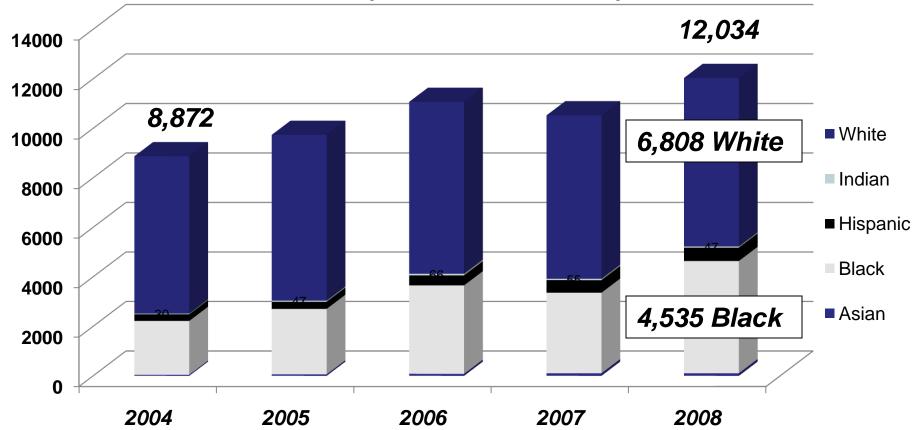
American Community Survey, 2007

Educational Attainment

Population 25 years and over		
Percent with	U.S.	MO.
Less Than High school graduate	16	15
High school graduate or higher	84	85
Bachelor degree or higher	27	24

The Number of Missouri High School Dropouts Increased by 3,162 or 36% from 2004 to 2008



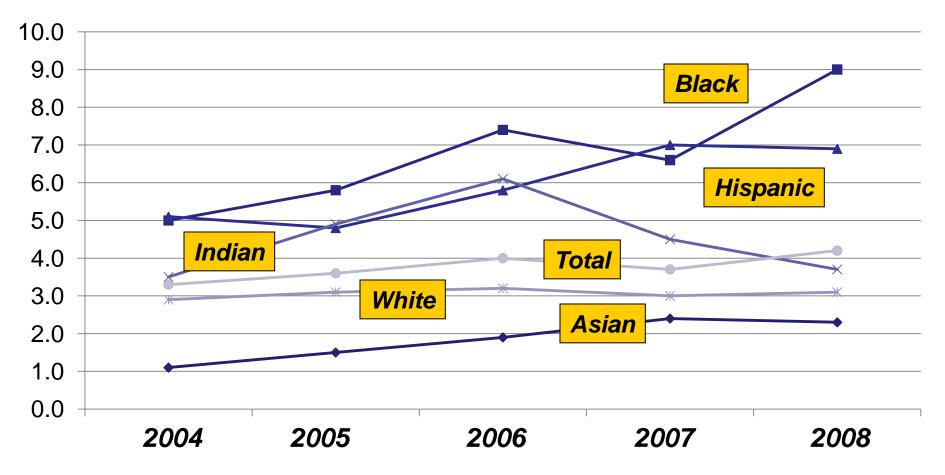


Source: DESE, 2009 School Data



Overall, Missouri rates increased modestly. Black & Hispanic rates are higher and increasing

Missouri High School Annual Dropout Rate 2004-2008 by Race and Ethnicity

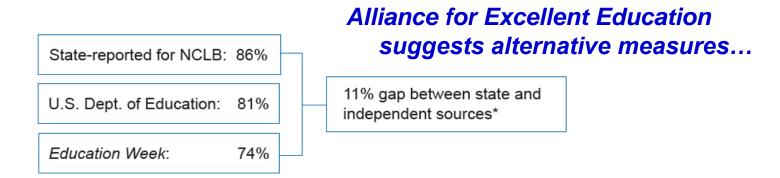


Fifteen Percent of Missouri High School students (cohorts) do not graduate. Racial and Ethnic Disparities Persist

Missouri Graduation Rates by Race and Ethnicity, 2004-2008						
Year	2004	2005	2006	2007	2008	
Total Number of Graduates	58,040	57,838	58,435	60,200	61,752	
Graduation Rate	85.6	86.0	85.8	86.3	85.2	
Asian	93.7	94.6	94.7	94.1	92.2	
White	87.4	87.6	87.8	88.2	88.3	
American Indian	84.8	83.9	81.4	81.0	83.4	
Hispanic	77.7	81.6	80.6	80.7	77.5	
Black	76.5	77.5	76.0	77.2	72.2	

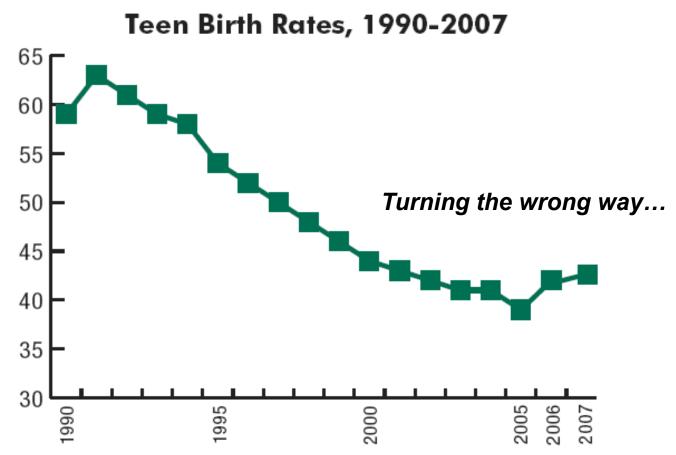
Source: Missouri Dept. of Elementary and Secondary Education

- -- News analyses from around the country..
- -- Grade range issues
- -- Impact of federal reporting requirements



Overall, DESE has the best data and it is improving ...Missouri's New student tracking system

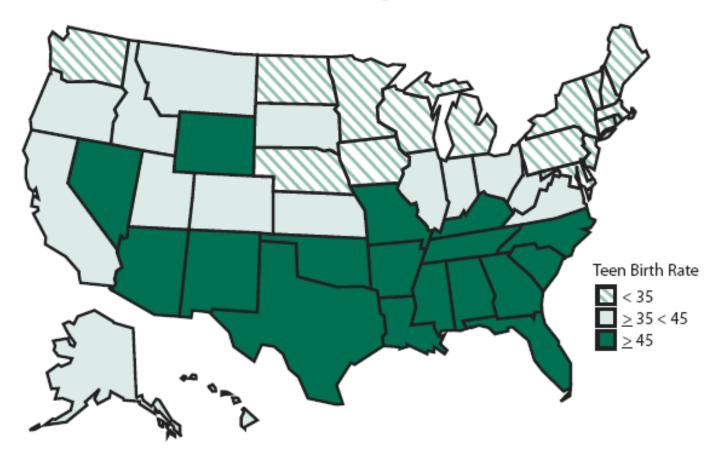
Critical Social and Demographic Factors



Source: National Vital Statistics Reports, National Center for Health Statistics, 2002 and 2009.

A wide spread complex trend

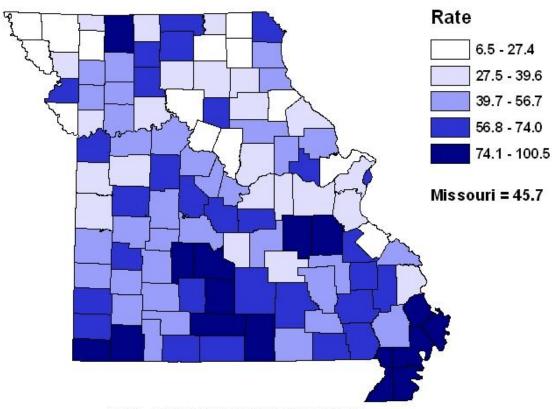
Teen Birth Rates by State, 2006



Source: National Vital Statistics Reports, National Center for Health Statistics, 2009.

Socially and Geographically Diverse Challenge

Births to Teens 15-19 per 1,000 Females 15-19 by County, 2007



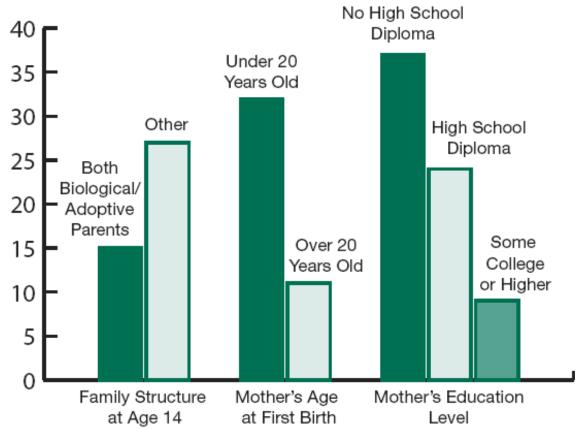
Source: Missouri Department of Health and Senior Services

Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)

Map Generated on 11.08.2008

Profound interrelationships with education and poverty

Probability of First Birth by Age 20, 2002



Source: Vital Statistics Reports, National Center for Health Statistics, 2004.

Profound interrelationships with education and poverty



Publication #2009-10

4301 Connecticut Avenue, NW, Suite 350, Washington, DC 20008 Phone 202-572-6000 Fax 202-362-8420 www.childtrends.org

Ten Reasons to Still Keep the Focus on Teen Childbearing

By Emily Holcombe, B.A., Kristen Peterson, B. A., and Jennifer Manlove, Ph.D.

March 2009

Adolescent mothers have high probabilities of raising their children in poverty. More than 40 percent of teenage moms report living in poverty at age 27 (Moore et al. 1993).

The rates are especially high among black and Hispanic adolescent mothers, more than half of whom end up in poverty

Education, Skill Sets, Economic Change and Demographics

America's Perfect Storm

Three Forces Changing Our Nation's Future

- Divergent skill distributions
- The changing economy
- Demographic shifts



Educational Testing Service

www.ets.org

America's Perfect Storm

Three Forces Changing Our Nation's Future

- Divergent skill distributions
 - Flat NAEP scores
 - High school graduation slacking
 - Poor literacy and math skills
 - Race and ethnic gaps

America's Perfect Storm

Three Forces Changing Our Nation's Future

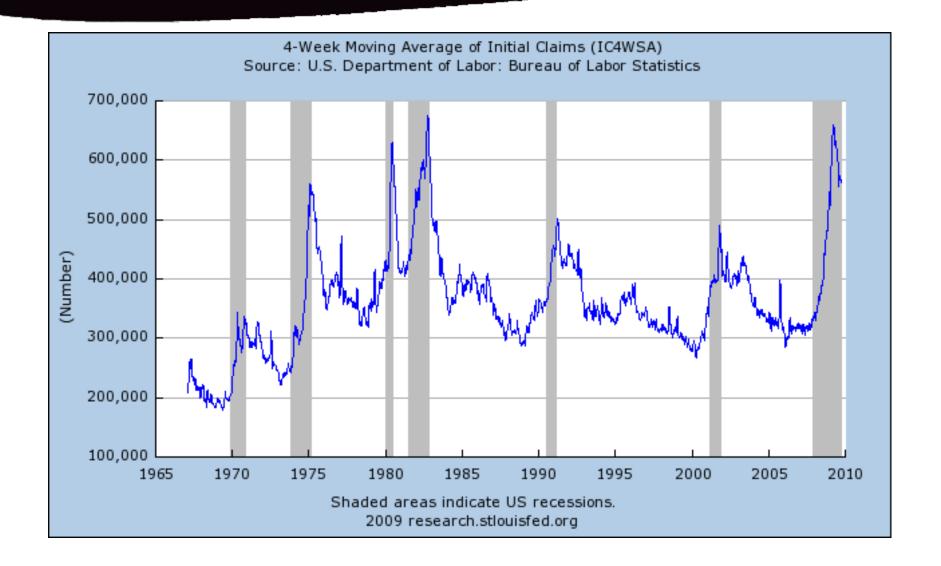
- The changing economy
 - Declining manufacturing more service
 - Two thirds of job growth has been associated with college-level jobs
 - College grads earn 51% more than H.S. grads
 - Earning premiums reward education & skill

America's Perfect Storm

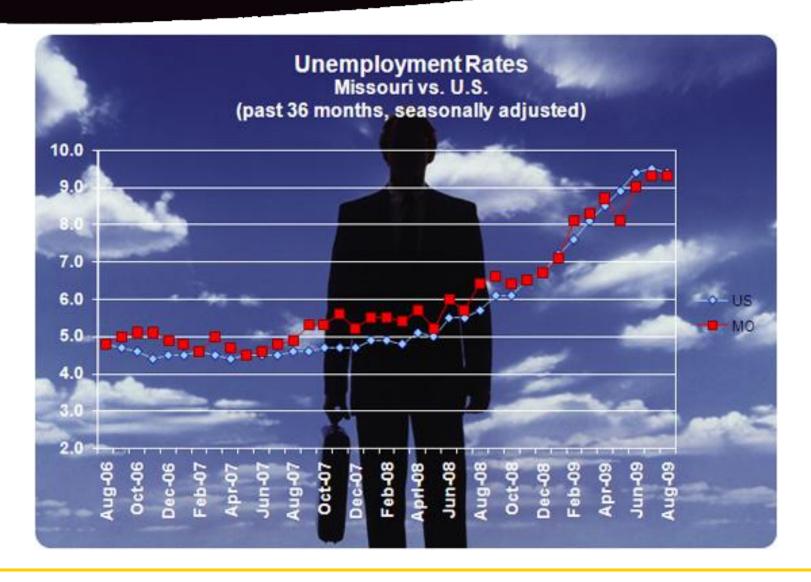
Three Forces Changing Our Nation's Future

- 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

Challenging Times....

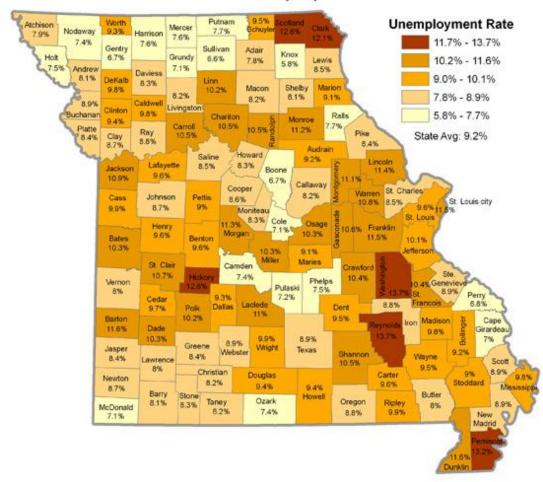


Challenging Times.... In Missouri



Challenging Times.... In Missouri Communities

Unemployment Rates - August 2009 Not Seasonally Adjusted



How <u>flat</u> the world is depends on where your standing..and how well prepared you are....

- The World is Flat "new oil wells"
 - -- Thomas Friedman

- Making Globalization Work
 - -- Joseph Stiglitz

Challenging Times....The New Sputnik

The New Sputnik

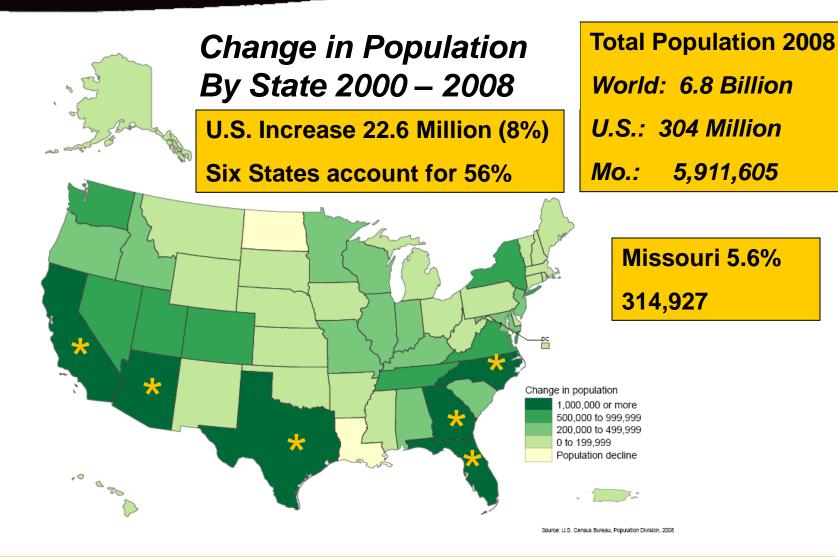
Thomas Friedman New York Times – September 26, 2009

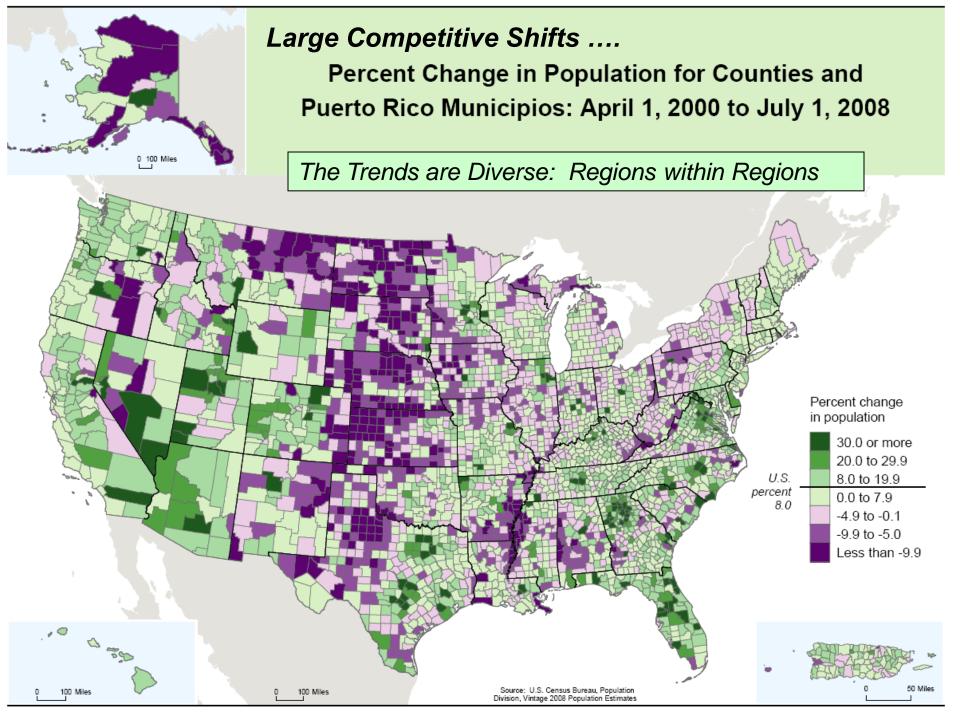
And when China decides it has to go green out of necessity, watch out....
You will buy your next electric car, solar panels, batteries and energy-efficiency software from China.

I believe this Chinese decision to go green is the 21st-century equivalent of the Soviet Union's 1957 launch of Sputnik

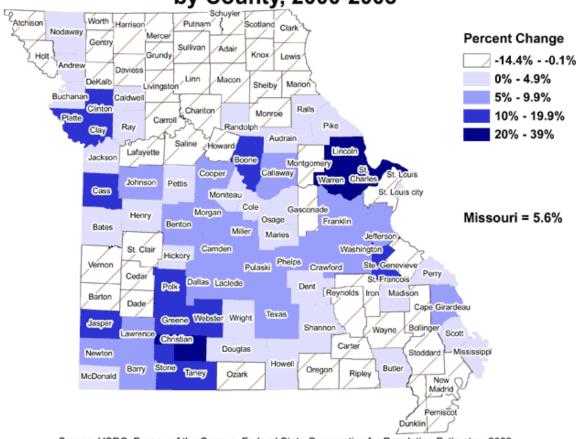
Who will get the **Green Jobs** of the future?

Large Competitive Shifts



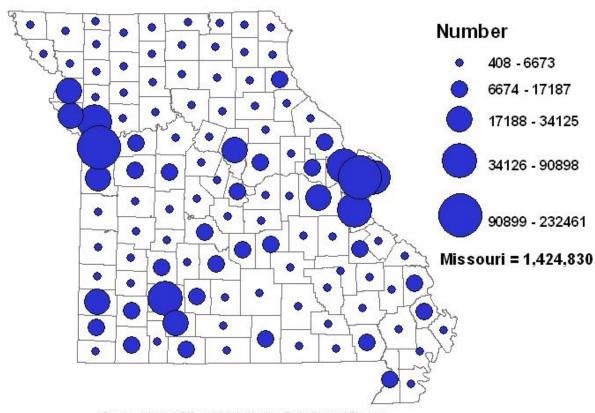


Percent Change in Missouri Population by County, 2000-2008



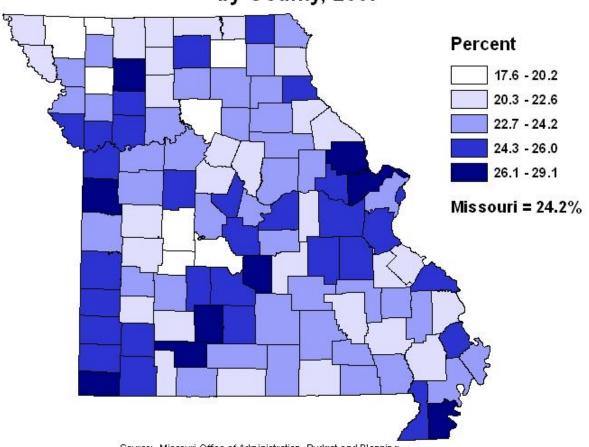
Source: USDC, Bureau of the Census, Federal State Cooperative for Population Estimates, 2008 Prepared by: University of Missouri Extension, Office of Social and Economic Data Analysis (OSEDA) Map Generated on: 02 Apr 2009

Child Population Under 18 by County, 2007



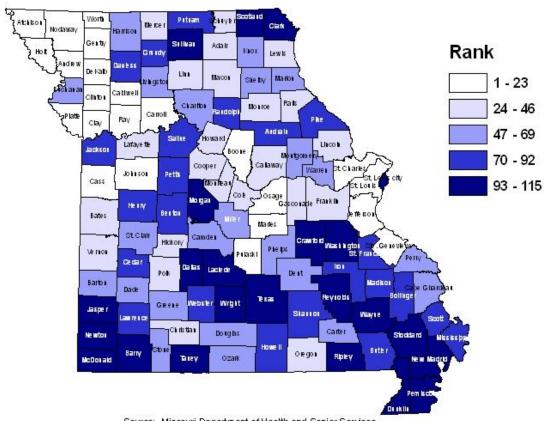
Source: Missouri Office of Administration, Budgeting and Planning
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 11.08.2008

Child Population Under 18 as a Percent of Total Population by County, 2007



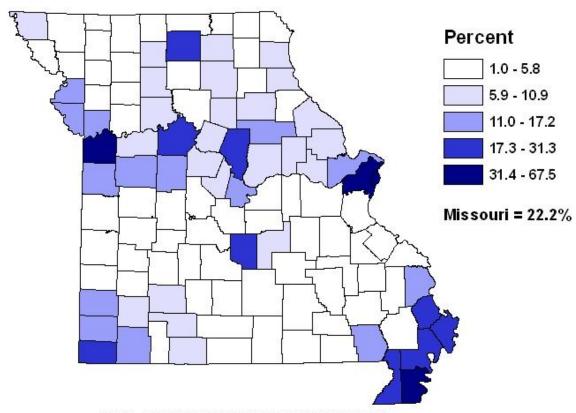
Source: Missouri Office of Administration, Budget and Planning
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 11.17.2008

Kids Count Composite Rank by County, 2008



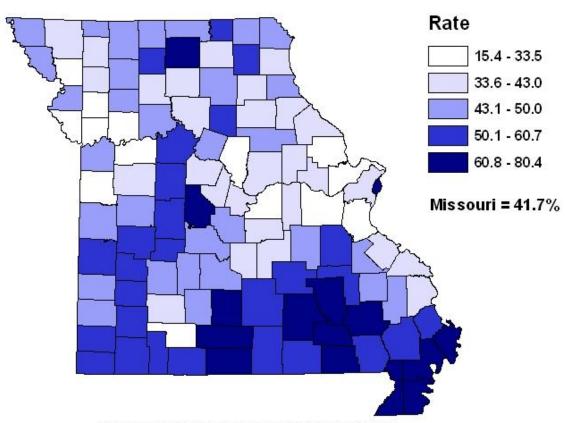
Source: Missouri Department of Health and Senior Services Prepared by University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA) Map Generated on 02.25.2009

Percent Minority Child Population Under 18 as a Percent of Total Population by County, 2007



Source: Missouri Office of Administration, Budgeting and Planning
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 11.08.2008

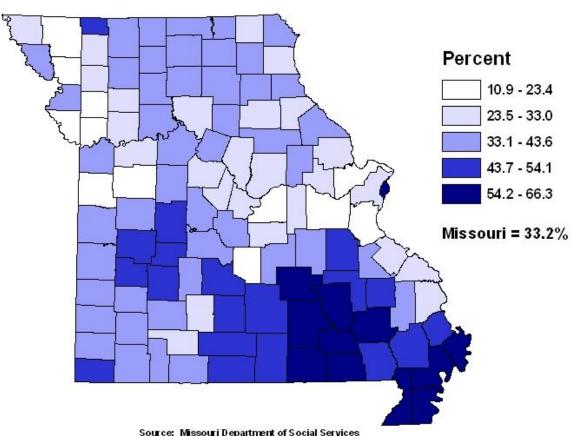
Percent Students Enrolled for Free and Reduced Lunches by County, 2007



Source: Missouri Department of Elementary & Secondary Education Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA) Map Generated on 11.03.2008

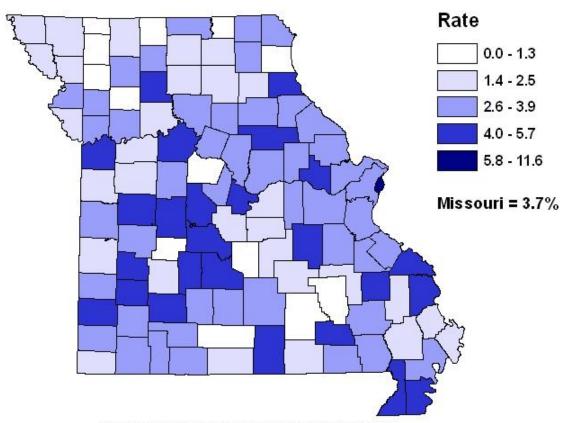


Percent Children Receiving Medicaid/MC+ by County, 2007



Source: Missouri Department of Social Services
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 11.17.2008

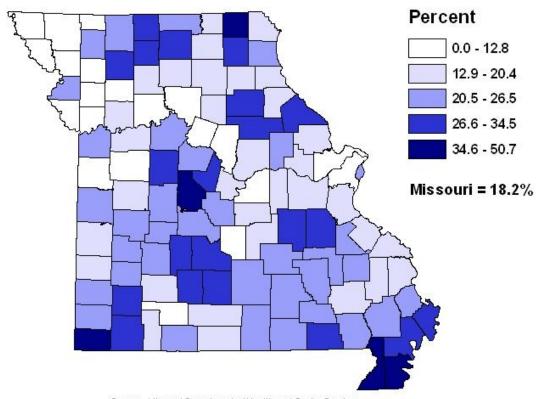
Annual High School Dropout Rate by County, 2007



Source: Missouri Department of Elementary & Secondary Education Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA) Map Generated on 11.08.2008

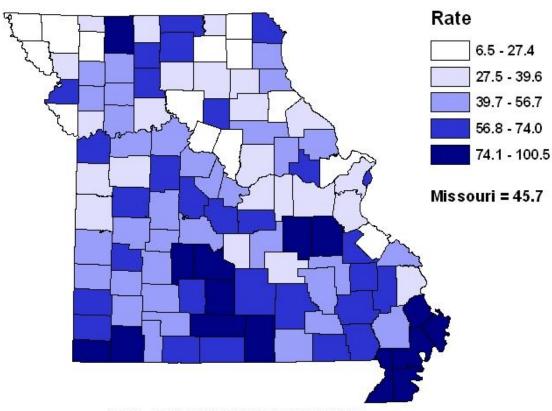


Percent of Births to Mothers with Fewer Than 12 Years Education by County, 2007



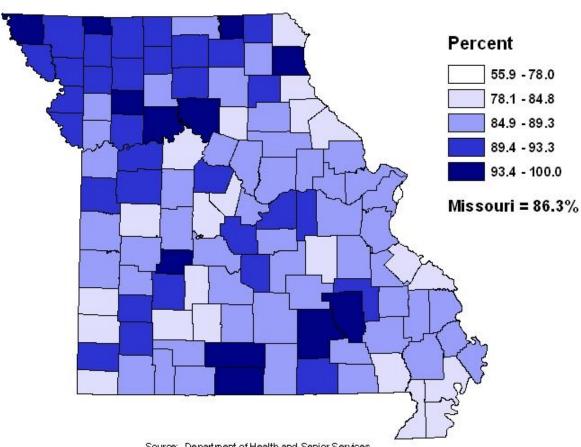
Source: Missouri Department of Health and Senior Services Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA) Map Generated on 11.03.2008

Births to Teens 15-19 per 1,000 Females 15-19 by County, 2007



Source: Missouri Department of Health and Senior Services
Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA)
Map Generated on 11.08.2008

Graduation Rate, 2007



Source: Department of Health and Senior Services Prepared by: University Outreach and Extension, Office of Social and Economic Data Analysis - (OSEDA) Map Generated on 11.17.2008

Financial Benefits to the Individual

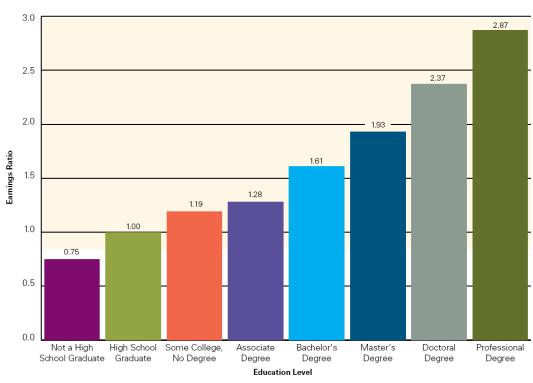


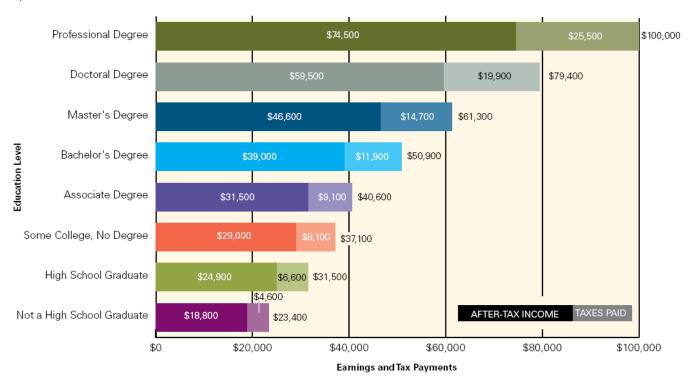
Figure 1.2: Expected Lifetime Earnings Relative to High School Graduates, by Education Level

Notes: Based on the sum of median 2005 earnings from ages 25 to 64 for each education level. Future earnings are discounted using a 3 percent annual rate to account for the reality that, because of forgone interest, dollars received in the future are not worth as much as those received today. Sources: U.S. Census Bureau, 2006, PINC-03; calculations by the authors.

Community Benefits of Education

Education, Earnings, and Tax Payments

Figure 1.1: Median Earnings and Tax Payments of Full-Time Year-Round Workers Ages 25 and Older, by Education Level, 2005



Note: Taxes paid include federal income, Social Security, and Medicare taxes, and state and local income, sales, and property taxes. Sources: U.S. Census Bureau, 2006, PINC-03; Internal Revenue Service, 2006; McIntyre et al., 2003; calculations by the authors.

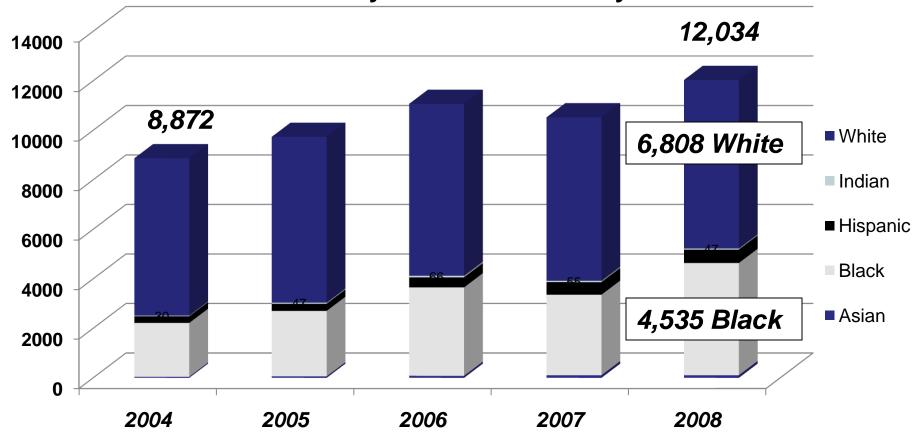
The bars in this graph show median earnings at each education level. The lighter segments represent the average federal, state, and local taxes paid at these income levels. The darker segments show after-tax income.





The Number of Missouri High School Dropouts Increased by 3,162 or 36% from 2004 to 2008





Source: DESE, 2009 School Data



Missouri High School Dropout Trends: The Rates and the Demographic Context

Task Force on Dropout Prevention September 29, 2009

St. Louis, Missouri

Bill Elder PhD, Director Office of Social & Economic Data Analysis (OSEDA) University of Missouri



Data Tables...

Missouri High School Dropouts and Rates by Race and Ethnicity, 2004-2008

Year	Race/Ethnicity	2004	2005	2006	2007	2008
Asian Dropouts 9-12	Asian	42	59	82	105	106
Black Dropouts 9-12	Black	2,177	2,647	3,573	3,254	4,535
Hispanic Dropouts 9-12	Hispanic	266	286	403	507	538
Indian Dropouts 9-12	Indian	30	47	66	55	47
White Dropouts 9-12	White	6,357	6,698	6,945	6,604	6,808
Total Dropouts 9-12	Total	8,872	9,737	11,069	10,525	12,034
Asian Dropout Rate 9-12 (%)	Asian	1.1	1.5	1.9	2.4	2.3
Black Dropout Rate 9-12 (%)	Black	5.0	5.8	7.4	6.6	9.0
Hispanic Dropout Rate 9-12 (%)	Hispanic	5.1	4.8	5.8	7.0	6.9
Indian Dropout Rate 9-12 (%)	Indian	3.5	4.9	6.1	4.5	3.7
White Dropout Rate 9-12 (%)	White	2.9	3.1	3.2	3.0	3.1
Total Dropout Rate 9-12 (%)	Total	3.3	3.6	4.0	3.7	4.2

Source: Missouri Department of Elementary and Secondary Education, 2009

Data Tables...

Graduation Rates, 2004-2008					
	Missouri				
Year	2004	2005	2006	2007	2008
Total Number of Graduates	58,040	57,838	58,435	60,200	61,752
Cohort Dropouts	9,739	9,438	9,653	9,584	10,715
Graduation Rate (%)	85.6	86	85.8	86.3	85.2
Total Number of Asian Graduates	868	851	1,027	1,036	1,025
Cohort Asian Dropouts	58	49	58	65	87
Asian Graduation Rate (%)	93.7	94.6	94.7	94.1	92.2
Total Number of Black Graduates	7,863	8,319	8,405	8,930	9,200
Cohort Black Dropouts	2,416	2,411	2,649	2,639	3,534
Black Graduation Rate (%)	76.5	77.5	76	77.2	72.2
Total Number of American Indian Graduates	189	193	197	222	272
Cohort American Indian Dropouts	34	37	45	52	54
American Indian Graduation Rate (%)	84.8	83.9	81.4	81	83.4
Total Number of Hispanic Graduates	947	1,080	1,264	1,370	1,498
Cohort Hispanic Dropouts	272	243	305	328	436
Hispanic Graduation Rate (%)	77.7	81.6	80.6	80.7	77.5
Total Number of White Graduates	48,168	47,395	47,542	48,642	49,757
Cohort White Dropouts	6,959	6,698	6,596	6,500	6,604
White Graduation Rate (%)	87.4	87.6	87.8	88.2	88.3

Source: Missouri Dept. of Elementary and Secondary Education

Core Data As Submitted by Missouri Public Schools

