

Where We Stand tracks the health of the St. Louis region compared to 34 peer MSAs.¹ The peer regions are our domestic competition and provide a consistent yardstick to gauge "Where We Stand."

This update builds on the data included in the WWS sixth edition, providing updated and new data on segregation and racial disparity in the St. Louis region.

6th Edition, Update 9

September 2014

Racial Segregation and Disparity

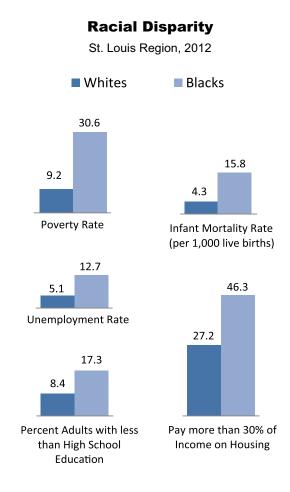
Disparities between blacks and whites are prevalent and persistent. Nationally, a black student is twice as likely to drop out of school, a black worker is more than twice as likely to be unemployed, and a black family is half as likely to own a home. The infant mortality rate for blacks is more than twice the white rate and a study by the Pew Research Center found that the median wealth of white families is 20 times that of black families.² The disparity of outcomes between black and white individuals and families presents a moral challenge for the St. Louis region and for the nation.

This update provides facts on the level of segregation in metropolitan areas over the past 30 years and the degree of racial disparity in St. Louis and its peer regions.³ The story is one that is familiar to most but also one that is often forgotten, overshadowed or downplayed.

Among its peer regions, St. Louis is the 6th most segregated and tends to have a wider gap between whites and blacks than many of the peer regions on a range of social, economic and health indicators. In this update, data are presented on the gaps between whites and blacks on variables for education, health, labor market and wealth.

The challenge is not unique to the St. Louis region, nor is it a new one. Indicators of racial disparity have been part of *Where We Stand* since its inception in 1992. Over the 20 year period, the story has been the same—across the country on all indicators, black individuals and families do not enjoy the same advantages as their white counterparts.

Although no consensus exists regarding solutions, these tables substantiate the need for action and policy changes to address inequity.



¹ MSAs (Metropolitan Statistical Areas) are geographic entities delineated by the Office of Management and Budget (OMB). MSAs are areas with "at least one urbanized area of 50,000 or more population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties."

2 Kochhar, R. et al., Wealth Gaps Rise to Record Highs between Whites, Blacks, Hispanics: Twenty to one. Pew Research in Social and Demographic Trends. http://www.pewsocialtrends.org/2011/07/26/wealth-gaps-rise-to-record-highs-between-whites-blacks-hispanics/

³ Where We Stand usually includes Salt Lake City as a peer region but the MSA is not included on the tables of racial disparity due to low African American sample size.

Racial Composition of Regions

Together, African Americans and non-Hispanic whites make up 93 percent of the region's population.

Neighboring regions in the Midwest and South are similar. Other races and ethnicities make up less than 10 percent of the population in Detroit, Cleveland, Memphis, Louisville and Cincinnati. Regions in other parts of the country have a higher percentage of other races and ethnicities, particularly Hispanics and Asians. Together, Asians and Hispanics make up a majority of the population in Los Angeles, San Francisco and San Antonio. In New York, Denver and Chicago, more than a quarter of the population is either Hispanic or Asian.

Since the St. Louis region is largely bi-racial, this update focuses on the disparities between black and white people. Research indicates that similar disparities exist for other minorities throughout the country as well, particularly in those regions that have higher concentrations of an individual minority group.

The more populated regions tend to have the largest black populations but blacks comprise larger portions of the populations in the Southeast and Midwest regions. St. Louis ranks toward the middle of the peers on both of these variables with the 13th largest black population and the 10th largest black proportion of its total population.

TOTAL POPULATION

4	Now York	40 040 407
1	New York	19,048,167
2	Los Angeles	12,947,334
3	Chicago	9,496,587
4	Dallas	6,519,849
5	Houston	6,085,873
6	Philadelphia	5,996,101
7	Washington DC	5,710,843
8	Miami	5,677,408
9	Atlanta	5,361,152
10	Boston	4,602,669
11	San Francisco	4,399,211
12	Detroit	4,290,618
13	Phoenix	4,263,663
Avei		4,114,008
14	Seattle	3,499,632
15	Minneapolis	3,320,190
16	San Diego	3,139,726
17	St. Louis	2,818,187
		_,0.0,0.0
18	Baltimore	2,734,138
19		
	Baltimore Denver Pittsburgh	2,734,138
19	Baltimore Denver	2,734,138 2,599,275 2,359,225 2,261,148
19 20	Baltimore Denver Pittsburgh	2,734,138 2,599,275 2,359,225 2,261,148 2,192,939
19 20 21 22 23	Baltimore Denver Pittsburgh Portland San Antonio Cincinnati	2,734,138 2,599,275 2,359,225 2,261,148 2,192,939 2,138,136
19 20 21 22	Baltimore Denver Pittsburgh Portland San Antonio	2,734,138 2,599,275 2,359,225 2,261,148 2,192,939
19 20 21 22 23 24 25	Baltimore Denver Pittsburgh Portland San Antonio Cincinnati	2,734,138 2,599,275 2,359,225 2,261,148 2,192,939 2,138,136
19 20 21 22 23 24 25 26	Baltimore Denver Pittsburgh Portland San Antonio Cincinnati Cleveland	2,734,138 2,599,275 2,359,225 2,261,148 2,192,939 2,138,136 2,069,316 2,051,795 1,859,697
19 20 21 22 23 24 25	Baltimore Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City	2,734,138 2,599,275 2,359,225 2,261,148 2,192,939 2,138,136 2,069,316 2,051,795
19 20 21 22 23 24 25 26	Baltimore Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City Columbus	2,734,138 2,599,275 2,359,225 2,261,148 2,192,939 2,138,136 2,069,316 2,051,795 1,859,697
19 20 21 22 23 24 25 26 27	Baltimore Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City Columbus Charlotte	2,734,138 2,599,275 2,359,225 2,261,148 2,192,939 2,138,136 2,069,316 2,051,795 1,859,697 1,796,759
19 20 21 22 23 24 25 26 27 28	Baltimore Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City Columbus Charlotte Austin	2,734,138 2,599,275 2,359,225 2,261,148 2,192,939 2,138,136 2,069,316 2,051,795 1,859,697 1,796,759 1,780,890
19 20 21 22 23 24 25 26 27 28 29	Baltimore Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City Columbus Charlotte Austin Indianapolis	2,734,138 2,599,275 2,359,225 2,261,148 2,192,939 2,138,136 2,069,316 2,051,795 1,859,697 1,796,759 1,780,890 1,779,439
19 20 21 22 23 24 25 26 27 28 29 30	Baltimore Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City Columbus Charlotte Austin Indianapolis Nashville	2,734,138 2,599,275 2,359,225 2,261,148 2,192,939 2,138,136 2,069,316 2,051,795 1,859,697 1,796,759 1,780,890 1,779,439 1,618,819
19 20 21 22 23 24 25 26 27 28 29 30 31	Baltimore Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City Columbus Charlotte Austin Indianapolis Nashville Milwaukee	2,734,138 2,599,275 2,359,225 2,261,148 2,192,939 2,138,136 2,069,316 2,051,795 1,859,697 1,796,759 1,780,890 1,779,439 1,618,819 1,561,707

Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau

BLACK POPULATION

1	New York	3,074,017
2	Atlanta	1,724,632
3	Chicago	1,608,329
4	Washington DC	1,437,544
5	Philadelphia	1,211,025
6	Miami	1,128,867
7	Houston	1,026,043
8	Detroit	968,326
9	Dallas	960,588
10	Los Angeles	849,886
11	Baltimore	775,704
Ave		607,906
12	Memphis	602,966
13	St. Louis	511,448
14	Charlotte	423,057
15	Cleveland	408,009
16	San Francisco	347,049
17	Boston	319,826
18	Columbus	272,525
19	Indianapolis	263,066
20	Cincinnati	256,856
21	Milwaukee	255,128
22	Kansas City	251,814
23	Nashville	248,143
24	Minneapolis	243,424
25	Phoenix	206,011
26	Pittsburgh	191,742
27	Seattle	188,524
28	Louisville	174,593
29	San Diego	149,210
30	Denver	139,473
31	San Antonio	133,544
32	Oklahoma City	127,177
33	Austin	126,839
34	Portland	63,404

Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau I G H E R

AVERAGE

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BLACK POPULATION

Percent of total, 2012

1	Memphis	45.5
2	Atlanta	32.2
3	Baltimore	28.4
4	Washington DC	25.2
5	Charlotte	23.5
6	Detroit	22.6
7	Philadelphia	20.2
8	Miami	19.9
9	Cleveland	19.7
10	St. Louis	18.1
11	Chicago	16.9
12	Houston	16.9
13	Milwaukee	16.3
14	New York	16.1
15	Nashville	15.3
16	Indianapolis	14.8
Aver	Average	
17	Dallas	14.7
18	Columbus	14.7
19	Louisville	13.5
20	Kansas City	12.3
21	Cincinnati	12.0
22	Oklahoma City	10.0
23	Pittsburgh	8.1
24	San Francisco	7.9
25	Minneapolis	7.3
26	Austin	7.1
27	Boston	6.9
28	Los Angeles	6.6
29	San Antonio	6.1
30	Seattle	5.4
31	Denver	5.4
32	Phoenix	4.8
33	San Diego	4.8
34	Portland	2.8

Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau

HISPANIC POPULATION

Percent of total, 2012

1	San Antonio	54.3
2	Los Angeles	44.7
3	Miami	41.9
4	Houston	35.7
5	San Diego	32.4
6	Austin	31.7
7	Phoenix	29.7
8	Dallas	27.8
9	New York	23.3
10	Denver	22.7
11	San Francisco	21.8
12	Chicago	21.0
Aver	age	15.9
13	Washington, DC	14.2
14	Oklahoma City	11.7
15	Portland	11.0
16	Atlanta	10.5
17	Charlotte	10.0
18	Milwaukee	9.7
19	Boston	9.3
20	Seattle	9.2
21	Kansas City	8.3
22	Philadelphia	8.1
23	Nashville	6.7
24	Indianapolis	6.3
25	Minneapolis	5.5
26	Memphis	5.1
27	Cleveland	4.9
28	Baltimore	4.8
29	Louisville	4.1
30	Detroit	4.0
31	Columbus	3.7
32	Cincinnati	2.7
33	St. Louis	2.6
34	Pittsburgh	1.4

Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau

ASIAN POPULATION

Percent of total, 2012

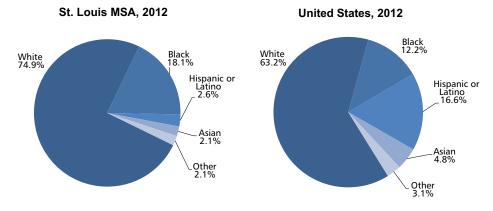
1	San Francisco	23.3
2	Los Angeles	14.7
3	Seattle	11.5
4	San Diego	10.9
5	New York	10.1
6	Washington, DC	9.3
7	Boston	6.7
8	Houston	6.6
9	Portland	5.8
10	Minneapolis	5.8
11	Chicago	5.7
12	Dallas	5.5
Aver	age	5.3
13	Philadelphia	5.1
14	Atlanta	5.0
15	Austin	4.8
16	Baltimore	4.7
17	Denver	3.6
18	Detroit	3.4
19		3.3
20	Charlotte	3.3
21	Columbus	3.2
22	Milwaukee	2.9
23	Oklahoma City	2.8
24	Kansas City	2.3
25	Nashville	2.3
26	Miami	2.3
27	Indianapolis	2.2
28	St. Louis	2.1
29	San Antonio	2.0
30	Cleveland	2.0
31	Cincinnati	2.0
32	Memphis	1.9
33	Pittsburgh	1.8
34	Louisville	1.6

AVERAGE

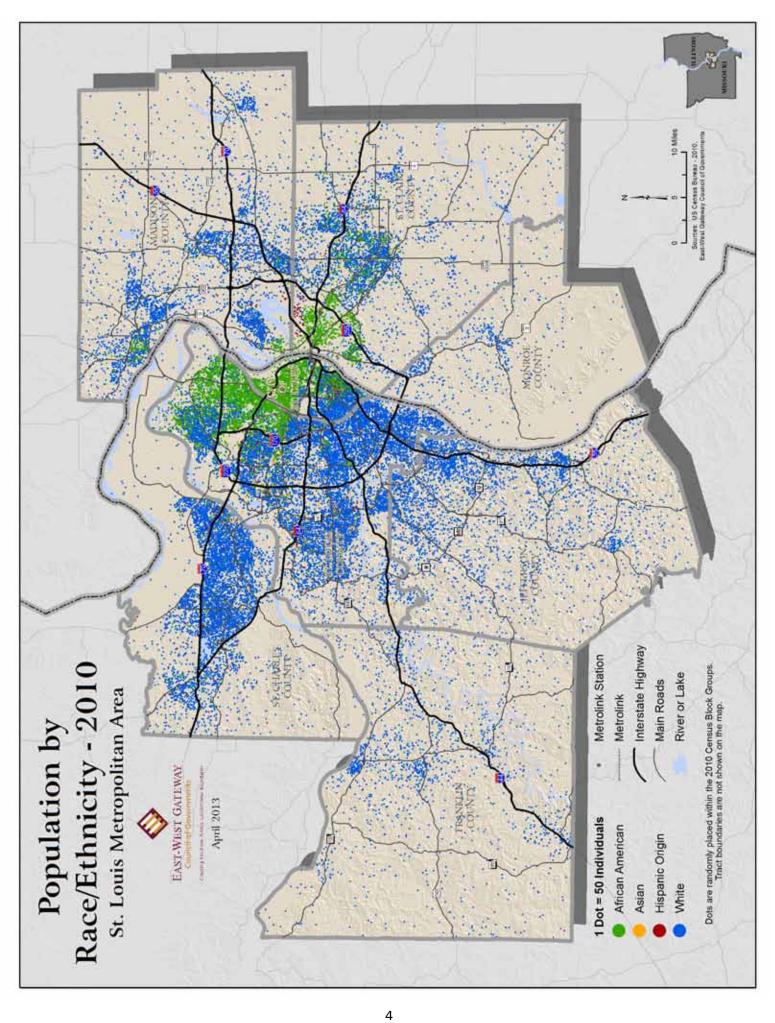
LOWER

Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau

Racial and Ethnic Composition



Source: 2012 American Community Survey 3-year Estimates, U.S. Census Bureau



SEGREGATION: DISSIMILARITY INDEX 1980 and 2010

White-black segregation scores on the dissimilarity index. Scores range from 0 to 100 with "0" indicating complete integration and "100" indicating complete segregation

	2010 Segregation		1980 Segregation	Change from 1980 to 2010
1	Milwaukee	79.6	83.9	-4.3
2	New York	76.9	81.3	-4.5
3	Chicago	75.2	88.1	-13.0
4	Detroit	74.0	87.6	-13.6
5	Cleveland	72.6	85.8	-13.2
6	St. Louis	70.7	81.6	-11.0
7	Philadelphia	67.0	77.2	-10.2
8	Cincinnati	66.9	78.2	-11.3
9	Los Angeles	65.2	81.0	-15.8
10	Indianapolis	64.5	78.8	-14.3
11	Baltimore	64.3	74.4	-10.1
12	Miami	64.0	82.1	-18.1
13	Pittsburgh	63.1	73.3	-10.3
14	Memphis	62.2	68.8	-6.5
15	Boston	61.5	74.6	-13.1
16	Washington DC	61.0	69.7	-8.7
17	Houston	60.6	73.7	-13.1
18	Columbus	60.0	72.9	-13.0
19	Denver	59.4	69.1	-9.8
20	San Francisco	59.3	72.0	-12.7
Average		59.1	73.1	-13.9
21 Kansas City		58.6	77.7	-19.0
22	Atlanta	58.4	76.9	-18.6
23	Louisville	56.2	73.6	-17.4
24	Dallas	55.5	78.2	-22.7
25	Nashville	55.0	65.2	-10.2
26	Charlotte	53.1	58.0	-4.9
27	Minneapolis	50.2	67.7	-17.5
28	Oklahoma City	49.0	71.6	-22.6
29	Austin	48.4	64.8	-16.4
30	San Diego	48.4	64.4	-16.0
31	San Antonio	47.7	61.4	-13.7
32	Seattle	45.7	64.8	-19.2
33	Phoenix	41.3	61.4	-20.1
34	Portland	40.9	68.7	-27.8
35	Salt Lake City	34.0	48.3	-14.3

Source: US2010, the American Communities Project

Segregation

People of all races and ethnicities tend to live in somewhat segregated communities. As the population of the United States becomes more diverse, there is increased integration in communities across the country but segregation continues, particularly for African Americans.⁴

The dissimilarity index is a standard measure of segregation that expresses the degree to which two groups of people are evenly spread among census tracts in a given region based on the racial composition of the entire region. Values can range from 0 to 100 on the index. A score of 0 would mean the community is completely integrated and a score of 100 would mean the community is completely segregated.

The average level of black-white segregation in U.S. metro areas has declined considerably from the average index score of 79 in 1960 and 1970 to a low of 59 in 2010.⁵

The St. Louis MSA has seen small decreases in segregation over each of the last three decades. In 1980 St. Louis had a score of 81.6, 77.2 in 1990, 73.4 in 2000 and 70.6 in 2010. By this measure, St. Louis is one of the most segregated metropolitan areas among its peers.

From 1980 to 2010 segregation decreased in all of the 35 peer regions, but not to the same degree. The average decrease for the peer regions was 14 points on the dissimilarity index. St. Louis experienced the 11th lowest change with an 11 point decrease.

Many of the regions that are considered highly segregated are in the Northeast and the Rust Belt. These regions also have some of the largest black populations—New York and Chicago—or the largest proportions of black population—Cleveland and St. Louis. Most of the regions that experienced the largest declines in segregation over the time period were those that were the least segregated at the beginning of the time period and have smaller black populations.

AVERAGE

LOWER

⁴ Logan, John R. and Brian J. Stults; The Persistence of Segregation in the Metropolis: New Findings from the 2010 Census; US2010 Project, 24 March 2011; http://www.s4.brown.edu/us2010/Data/Report/report2.pdf

⁵ Logan, 2011.

Segregated communities have been shown to provide unequal opportunities. In regions with higher levels of segregation, minorities are more likely to live in neighborhoods with underperforming schools, environmental problems, and lack of access to basic services. On average, black and Hispanic families in the U.S. live in poorer communities with fewer resources, even when they have higher incomes.⁶

Disparity: Education

On two measures of educational attainment the St. Louis region ranks about average among the peers. For disparity in adults with less than a high school diploma, the region ranks 18th with black adults being twice as likely to not have a high school education. Blacks are about half as likely as whites in the region to have a bachelor's degree or higher; 17 percent of black adults are college graduates, compared to 33 percent of white adults.

A recent study, For the Sake of All, makes the case that closing this gap in educational attainment is not only good for individuals but also for the region as a whole. The research estimates that for every 1,000 additional high school graduates, the region could expect to see \$21 million more spent on homes, the gross regional product to increase by \$15 million and the collection of an additional \$1.1 million in state and local taxes.⁷

If the same proportion of black adults had high school diplomas as whites in the St. Louis MSA, 45,000 more adults would be contributing to the region's economy in these ways.

Access to Opportunity in St. Louis Region: Findings from the Fair Housing Equity Assessment

In 2013 the Metropolitan Equal Housing and Opportunity Counsel conducted a Fair Housing Equity Assessment (FHEA) for the eight-county St. Louis region. The research documents the history of segregation and discrimination in the region, identifies areas of racially concentrated poverty, identifies areas of opportunity and offers recommendations for addressing inequities in the region.

The FHEA supports the larger body of research, finding that black people have less access to opportunities than whites. The research measured access on six dimensions of opportunity: poverty, school proficiency, labor market engagement, job access, transit access and health hazards exposure. The results show high disparity between whites and blacks in the region on three of the dimensions of opportunity—blacks are significantly more likely to live in high poverty and high unemployment neighborhoods and to live in underperforming school districts. The disparities are less for job access and health hazards exposure. Black households have more access to transit than whites but a limitation of this measure is that it does not capture the lack of access blacks have to some areas of the region. Furthermore, black households are 4.5 times more likely than white households to lack access to a vehicle.

See the FHEA at onestl.org for the report, including maps on the opportunity indicators.

DISPARITY IN HIGHER EDUCATION

Adults age 25 years or older with a bachelor's degree or higher, 2012

DISPARITY IN EDUCATION

Adults age 25 years or older with less than a high school diploma or equivalent, 2012

			WHITE	BLACK
R	atio black to white	adults	Percent of white adults	Percent of black adults
1	Minneapolis	4.8	3.9	18.6
2	Milwaukee	3.5	5.7	19.8
3	Austin	3.4	3.2	10.9
4	Miami	3.4	6.4	21.5
5	San Francisco	2.9	3.7	10.8
6	Boston	2.9	5.9	17.2
7	Denver	2.7	4.0	10.9
8	Washington DC	2.7	3.9	10.4
9	Chicago	2.5	6.2	15.5
10	New York	2.4	7.0	16.7
11	Seattle	2.3	5.2	12.2
12	Memphis	2.3	8.1	18.5
13	Kansas City	2.2	6.5	14.6
Avera		2.2	6.9	14.5
14	Portland	2.2	6.0	13.2
15	Philadelphia	2.2	7.4	16.2
16	Cleveland	2.2	8.7	19.0
17	San Diego	2.1	4.8	10.0
18	St. Louis	2.1	8.4	17.3
19	Baltimore	2.0	8.2	16.4
20	Los Angeles	2.0	5.7	11.3
21	Houston	1.9	6.4	12.2
22	Dallas	1.8	6.3	11.5
23	Indianapolis	1.8	8.7	15.8
24	Detroit	1.8	9.5	16.8
25	Phoenix	1.8	5.8	10.2
26	San Antonio	1.8	6.0	10.5
27	Pittsburgh	1.7	7.7	13.3
28	Charlotte	1.7	8.6	14.7
29	Cincinnati	1.7	10.1	17.2
30	Columbus	1.7	8.4	14.1
31	Nashville	1.5	10.4	15.8
32	Louisville	1.5	11.3	16.8
33	Oklahoma City	1.4	8.4	11.8
34	Atlanta	1.4	8.6	11.7

Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau

			WHITE	BLACK	
Ratio white to black adults			Percent of white adults	Percent of black adults	
1	Milwaukee	3.1	37.2	12.0	
2	San Francisco	2.3	55.3	23.7	
3	Cleveland	2.3	31.2	13.4	
4	Miami	2.3	38.7	17.0	
5	Philadelphia	2.2	38.0	17.3	
6	Austin	2.2	50.0	22.9	
7	Chicago	2.1	41.7	19.8	
8	New York	2.1	45.8	22.1	
9	Minneapolis	2.1	41.0	19.8	
10	Memphis	2.1	33.6	16.3	
11	Kansas City	2.1	36.2	17.6	
12	Indianapolis	2.0	34.0	17.2	
13	Seattle	2.0	39.5	20.0	н
14	Boston	2.0	46.0	23.3	I G
15	Cincinnati	2.0	30.6	15.5	н
16	San Diego	2.0	42.6	21.6	E R
17	St. Louis	1.9	32.7	16.8	K
18	Washington DC	1.9	59.0	30.5	
Avera	age	1.9	38.8	20.4	AVERAGE
19	Pittsburgh	1.9	30.1	15.8	L
20	Los Angeles	1.9	45.5	24.0	0
21	Denver	1.9	46.3	24.5	Ā
22	Baltimore	1.9	40.3	21.6	E R
23	Columbus	1.8	34.9	18.9	
24	Detroit	1.8	30.0	16.5	
25	Charlotte	1.8	38.1	21.7	
26	Dallas	1.7	39.5	23.0	
27	Houston	1.7	39.1	23.3	
28	San Antonio	1.6	39.0	23.8	
29	Louisville	1.6	27.1	17.0	
30	Oklahoma City	1.6	31.3	19.8	
31	Portland	1.6	35.9	22.9	
32	Phoenix	1.5	34.1	22.3	▼
33	Atlanta	1.5	40.3	27.0	
34	Nashville	1.4	32.9	23.7	

Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau

Disparity: Labor Market

In St. Louis black adults are slightly less likely than white adults to be in the labor force (62.6 and 66.9 percent, respectively) but are more than twice as likely to be unemployed.⁸ The disparity in unemployment between blacks and whites in the St. Louis region is high, ranking 4th among the peer regions, with blacks being 2.5 times more likely to be unemployed than whites. Blacks comprise 17 percent of the population in the labor force but about twice that, 34 percent, of those unemployed.

The disparity in unemployment rates is high for all of the regions. On average for the 34 regions, blacks are twice as likely to be unemployed. In the regions with the lowest levels of disparity, the black unemployment rate is still 3.5 to 4.8 percentage points higher than that of whites.

DISPARITY IN UNEMPLOYMENT

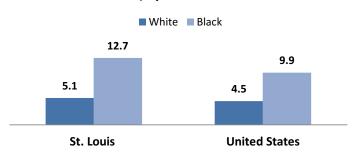
Percent of labor force unemployed, 2012

			WHITE	BLACK	
Ratio of black to white		hite	Percent of white labor force	Percent of black labor force	
1	Milwaukee	2.9	4.6	13.5	
2	Minneapolis	2.7	4.7	12.8	
3	Washington DC	2.7	3.3	8.8	
4	St. Louis	2.5	5.1	12.7	
5	Cleveland	2.4	5.3	12.7	
6	Indianapolis	2.4	5.2	12.4	
7	Kansas City	2.4	4.7	11.2	
8	Columbus	2.4	4.8	11.3	
9	Miami	2.3	5.5	12.9	
10	Cincinnati	2.3	5.3	12.2	
11	Memphis	2.3	4.8	11.0	
12	Baltimore	2.3	4.4	9.9	н
13	Chicago	2.2	6.0	13.4	I G
14	Boston	2.2	5.1	11.3	H
15	San Francisco	2.2	5.2	11.4	E R
16	Pittsburgh	2.2	4.5	9.7	K
17	Denver	2.2	5.3	11.4	
Avera	age	2.1	5.2	11.0	AVERAGE
18	Detroit	2.1	7.2	15.4	L
19	Houston	2.1	4.4	9.4	0
20	Atlanta	2.1	6.0	12.7	W
21	Dallas	2.1	4.7	9.7	Ē
22	Louisville	2.0	5.7	11.6	
23	Oklahoma City	2.0	3.6	7.3	
24	Phoenix	2.0	5.3	10.6	
25	Philadelphia	2.0	5.5	10.8	
26	Charlotte	2.0	6.5	12.7	
27	New York	1.9	5.1	9.9	
28	San Antonio	1.9	4.0	7.6	
29	Austin	1.7	4.7	8.2	
30	Seattle	1.7	5.8	10.1	
31	Nashville	1.7	5.3	9.2	▼
32	Portland	1.7	6.9	11.7	
33	San Diego	1.7	5.6	9.3	
34	Los Angeles	1.7	6.3	10.4	

Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau

Disparity in Unemployment

Unemployment rate, 2012



Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau

8 An individual is considered a labor force participant if he/she is either employed or unemployed and looking for work. An individual that is neither employed nor looking for work is not considered to be unemployed.

Disparity: Income and Poverty

In 2012 the median household income for white households in the St. Louis region was \$59,000. For black households it was about half that amount, \$30,500. This gap between blacks and whites puts the region in the top 10 of the 34 regions on this measure of disparity. On average, the income gap has grown over the last 20 years for the 34 peer regions. Between 1990 and 2012, the median income of white households in the St. Louis region grew by 2 percent while it decreased 5 percent for black households.

On average for the peer regions, black families are 3.2 times more likely to be in poverty than white families. The difference in poverty rates between whites and blacks is one of the largest gaps among those reviewed in this report. In the St. Louis region, 9 percent of white families have income below the poverty level while about one-third of black families have income below the poverty threshold.⁹

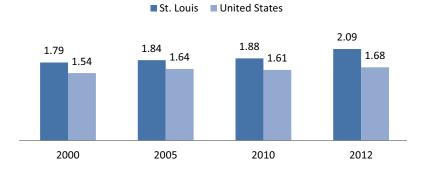
MEDIAN HOUSEHOLD INCOME, ST. LOUIS AND 34 PEER REGION AVERAGE; 1990, 2000 AND 2012

	St. Louis MSA	Peer Average
1990		
White Median Income	\$57,786	\$61,892
Black Median Income	\$32,274	\$36,307
White to Black Ratio	1.8	1.7
Difference White-Black	\$25,513	\$25,585
2000		
White Median Income	\$63,884	\$70,426
Black Median Income	\$36,731	\$42,499
White to Black Ratio	1.7	1.7
Difference White-Black	\$27,153	\$27,927
2012		
White Median Income	\$59,041	\$66,531
Black Median Income	\$30,479	\$36,631
White to Black Ratio	1.9	1.8
Difference White-Black	\$28,562	\$29,900

Note: All dollars adjusted to 2012 dollars Source: US2010 Project and 2012 ACS 3-Year US Census Bureau

Racial Disparity in Income

Ratio of white to black median household income St. Louis and United States



Sources: U.S. Census and American Community Survey, United States Census Bureau

DISPARITY IN INCOME

Household income, 2012

WHITE

Median

BLACK

Median

DISPARITY IN POVERTY RATES

Families in poverty, 2012

F	income income Ratio of white to black (dollars) (dolla							WHITE	BLACK
1	Minneapolis	2.4	70,721	29,522				Percent	Percent
2	Milwaukee	2.3	61,617	26,381				of white	of black
3	San Francisco	2.2	89,789	41,276		Ratio of black to w	hite	families	families
4	Cleveland	2.1	55,572	26,403	1	Minneapolis	5.4	6.7	36.2
5	Cincinnati	2.1	57,721	27,486	2	Milwaukee	5.1	7.6	39.1
6	Chicago	2.0	70,881	35,274	3	Chicago	4.1	7.2	29.4
7	Philadelphia	2.0	71,672	35,982	4	Denver	3.8	7.4	28.3
8	St. Louis	1.9	59,041	30,479	5	Memphis	3.6	8.1	29.2
9	Pittsburgh	1.9	52,129	27,052	6	Philadelphia	3.6	7.1	25.5
10	Detroit	1.9	57,463	30,021	7	Cleveland	3.6	9.4	33.4
11	Kansas City	1.9	61,225	32,105	8	Baltimore	3.4	6.2	21.1
12	Houston	1.9	75,494	40,403	9	Kansas City	3.3	8.5	28.4
13	Memphis	1.9	61,839	33,131	10	St. Louis	3.3	9.2	30.6
14	Indianapolis	1.9	57,960	31,224	11	Cincinnati	3.3	10.6	34.8
15	Columbus	1.9	59,536	32,083	12	San Francisco	3.3	7.2	23.6
Avera	Average		66,531	36,631	Ave	rage	3.2	8.8	27.2
16	New York	1.8	81,669	44,546	13	Portland	3.1	11.2	34.8
17	Louisville	1.8	52,441	28,882	14	Detroit	3.1	11.1	34.2
18	Los Angeles	1.8	74,690	41,195	15	Houston	3.1	7.4	22.7
19	Boston	1.8	77,864	43,171	16	Dallas	3.1	7.6	23.3
20	Portland	1.8	58,670	32,892	17	Pittsburgh	3.1	10.0	30.6
21	Dallas	1.8	70,733	39,927	18	Seattle	3.1	8.5	26.0
22	Denver	1.8	69,041	38,980	19	Washington DC	3.0	4.4	13.4
23	Baltimore	1.8	80,164	45,349	20	Boston	3.0	7.0	21.2
24	Seattle	1.7	70,077	40,586	21	Louisville	2.9	11.4	33.0
25	Oklahoma City	1.7	53,556	31,106	22	Columbus	2.9	11.3	32.6
26	Charlotte	1.7	62,355	36,388	23	Miami	2.9	9.6	27.4
27	Austin	1.7	68,467	40,490	24	Austin	2.8	8.6	24.3
28	Washington DC	1.7	107,413	63,995	25	Indianapolis	2.8	9.8	27.1
29	Atlanta	1.6	67,525	41,528	26	New York	2.7	7.5	20.6
30	Nashville	1.6	55,632	34,645	27	San Antonio	2.7	8.0	21.3
31	Miami	1.6	57,701	36,286	28	Oklahoma City	2.7	11.3	30.0
32	San Antonio	1.6	64,760	41,356	29	Charlotte	2.6	9.2	24.3
33	Phoenix	1.6	58,025	37,366	30	Los Angeles	2.6	9.1	23.6
34	San Diego	1.4	68,614	47,952	31	Atlanta	2.5	9.0	22.5
					32	Phoenix	2.5	10.1	25.0
S	ource: 2012 Americ			y 3-Year	33 34	Nashville	2.5	10.7	26.3
	Estimates, U.S. Census Bureau					San Diego	2.0	11.0	21.7

Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau

10

DISPARITY IN HOMEOWNERSHIP

Owner-occupied housing units, 2012

			WHITE	BLACK	
R	atio of white to bla	ck	Percent of white households	Percent of black households	
1	Minneapolis	3.2	76.7	24.1	
2	Milwaukee	2.2	69.6	31.3	
3	Cincinnati	2.2	73.9	34.3	
4	Boston	2.1	68.4	32.9	
5	Phoenix	2.1	69.7	33.8	
6	San Diego	2.1	61.2	29.7	
7	New York	2.0	66.7	32.7	
8	Portland	2.0	64.6	31.7	
9	Seattle	2.0	65.0	32.1	
10	Pittsburgh	2.0	73.7	36.4	
11	Columbus	2.0	68.5	34.3	
12	Louisville	2.0	74.2	37.8	
13	Cleveland	1.9	75.4	38.7	
14	Indianapolis	1.9	73.3	38.2	
15	Chicago	1.9	76.1	40.8	
Avera		1.9	71.4	39.5	1
16	San Francisco	1.8	60.5	33.2	
17	St. Louis	1.8	77.6	42.8	
18	Kansas City	1.8	72.8	41.1	
19	Dallas	1.7	70.4	40.4	
20	Detroit	1.7	78.8	45.7	
21	Denver	1.7	69.5	40.5	
22	Oklahoma City	1.7	71.2	41.5	
23	Nashville	1.7	72.4	42.5	
24	Los Angeles	1.7	59.4	34.9	
25	Baltimore	1.7	77.0	46.0	
26	Charlotte	1.6	75.8	46.4	
27	San Antonio	1.6	71.4	44.1	
28	Houston	1.6	72.9	45.2	
29	Austin	1.5	64.2	41.5	
30	Memphis	1.5	76.1	49.2	
31	Atlanta	1.5	77.1	50.0	
32	Miami	1.5	74.4	48.3	
33	Philadelphia	1.5	76.0	49.7	
34	Washington DC	1.4	72.6	50.4	

Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau

Disparity: Wealth

By one estimate, the racial wealth gap in the U.S. (total assets minus total liabilities divided by debt) is three times larger than the racial income gap.¹⁰ While data is not available at the regional level for an overall measure of wealth, the following tables provide some indication of the disparities in wealth in the peer regions.

A primary means of gaining wealth is through homeownership. In the St. Louis region, 43 percent of black householders and 78 percent of white householders own their homes while the remaining householders rent their homes.

AVERAGE

L O W E R

Where We Stand: Social Mobility

A recent Where We Stand Update on social mobility demonstrates the difficulty African Americans have in moving up the economic ladder, particularly in St. Louis and similar metropolitan regions. The Update and the larger body of research that it is based on, the Equality of Opportunity Project at Harvard University, found a relationship between social mobility and a number of factors, including residential segregation, income inequality, and the size of the African American population in a region.

The St. Louis region was found to have lower social mobility than many of its peers on three indicators of how likely a person born into a low-income family is to move up the economic ladder and achieve a higher standard of living as an adult. In St. Louis this low level of mobility affects black people to a greater extent since 30 percent of black individuals are in poverty (compared to 9 percent of whites), black household incomes are half that of whites and blacks have substantially less wealth than whites.

To view the update visit http://www.ewgateway.org/wws/wws.htm

DISPARITY IN RENTAL HOUSING COSTS

Households paying over 30 percent of income on rent, 2012

DISPARITY IN HOME VALUE

Median value of owned-homes, 2012

			WHITE	BLACK
Rat	tio of black to wh	ite	Median value (dollars)	Median value (dollars)
1	Detroit	2.2	134,400	61,100
2	Milwaukee	2.1	210,800	100,200
3	Philadelphia	2.0	260,700	129,300
4	San Francisco	1.9	631,500	336,100
5	Memphis	1.8	162,400	89,200
6	Cleveland	1.8	151,300	85,900
7	St. Louis	1.8	164,300	93,800
8	Pittsburgh	1.7	126,400	74,100
9	Kansas City	1.7	163,400	98,400
10	Chicago	1.6	241,400	149,300
11	Baltimore	1.6	301,200	188,300
12	Los Angeles	1.6	537,100	336,100
13	Miami	1.6	211,900	136,000
Avera		1.5	240,165	164,494
14	Houston	1.5	164,100	109,600
15	Columbus	1.5	164,400	110,900
16	Charlotte	1.5	182,200	123,600
17	Atlanta	1.4	188,800	130,400
18	Washington DC	1.4	407,800	285,300
19	Louisville	1.4	151,100	106,700
20	Austin	1.4	211,000	149,000
21	Indianapolis	1.4	148,500	104,900
22	Dallas	1.4	166,100	118,000
23	Cincinnati	1.4	155,400	111,600
24	San Diego	1.4	429,100	316,100
25	San Antonio	1.4	166,000	122,700
26	Denver	1.3	258,800	194,200
27	Oklahoma City	1.3	136,600	104,000
28	Phoenix	1.3	174,200	133,100
29	Nashville	1.3	178,200	140,000
30	Minneapolis	1.3	216,500	170,100
31	Boston	1.3	364,000	290,000
32	New York	1.2	425,700	360,700
33	Seattle	1.2	317,400	270,000
34	Portland	1.0	262,900	264,100

Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau

			WHITE	BLACK Percent of
			Percent of white rental	black rental
Ra	tio of black to wh	ite	households	households
1	Milwaukee	1.4	47.4	65.7
2	Houston	1.4	41.2	57.1
3	St. Louis	1.4	45.6	62.3
4	Memphis	1.4	46.7	63.6
5	Charlotte	1.3	44.2	59.6
6	San Francisco	1.3	46.6	62.1
7	Kansas City	1.3	45.1	59.5
8	Portland	1.3	51.1	66.9
9	Atlanta	1.3	45.8	59.9
10	Minneapolis	1.3	47.1	61.5
11	Dallas	1.3	42.7	55.6
12	Chicago	1.3	47.5	61.7
13	San Antonio	1.3	42.4	54.2
14	Denver	1.3	46.8	59.6
15	Washington DC	1.3	42.6	53.9
16	Cleveland	1.3	47.8	60.2
Avera		1.3	47.6	59.7
17	Detroit	1.3	51.0	63.9
18	Indianapolis	1.3	47.9	60.0
19	Columbus	1.2	46.7	58.3
20	Cincinnati	1.2	48.7	60.6
21	Miami	1.2	55.5	69.0
22	Seattle	1.2	47.5	59.0
23	Oklahoma City	1.2	48.5	60.1
24	Phoenix	1.2	48.7	60.1
25	Austin	1.2	47.4	58.2
26	Boston	1.2	47.6	57.7
27	Pittsburgh	1.2	44.5	53.9
28	Los Angeles	1.2	54.7	64.0
29	Baltimore	1.2	48.0	56.0
30	Nashville	1.2	48.6	56.4
31	Philadelphia	1.2	51.5	59.5
32	Louisville	1.2	46.4	53.6
33	New York	1.1	49.8	55.8
34	San Diego	1.1	56.0	61.6

AVERAGE

Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau

The racial gap in the median value of homes and amount of income spent on housing further demonstrates the differences between whites and blacks in building wealth and attaining economic stability. The median housing value for blacks who own their home is just over half that of whites (\$93,800 compared to \$164,300). Despite having lower value homes, black homeowners are 1.7 times more likely than white homeowners to spend more than 30 percent of their income on housing.

Notably, the median gross rent spent by those in the St. Louis region who rent their homes is about the same for black and white households; \$756 and \$783 per month, respectively. Yet, since the income of black households is lower, blacks are 1.4 times more likely to pay more than what is considered affordable for rental housing (30 percent of income).

Disparity: Health

Research indicates that while disparities in health have decreased in some areas, it has grown in others. Two indicators of health disparity are provided here along with additional data on health disparities in the St. Louis region.

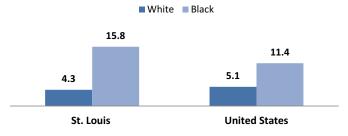
Infant mortality rates are often used as an indicator of health and well-being in a community because factors that affect the health of the entire population also affect infant mortality, including maternal health, quality and access to medical care, socioeconomic conditions and public health practices.

For 2011 the infant mortality rate for the U.S. was 6.1 infant deaths (less than one year old) per 1,000 live births. This is a slight decline from 6.9 in 2000. The infant mortality rates for both blacks and whites improved but there was only a slight decrease in the gap. In 2011 the rate for black infants was 2.2 times greater than that of whites, 11.4 and 5.1 deaths per 1,000 births, respectively.¹¹ In 2000 blacks were 2.4 times more likely to die during infancy than whites, 13.6 and 5.7 deaths, respectively.¹²

The average disparity in infant mortality for the 34 peer regions is slightly higher than for the U.S. as a whole, at 2.7 deaths. St. Louis has one of the highest infant mortality gaps with blacks being 3.6 times more likely than whites to die during infancy.

Disparity in Infant Mortality

Infant deaths (less than one year old) per 1,000 live births, St. Louis (2007-2009) and United States (2011)



Source: United States Department of Health and Human Services (US DHHS), Centers of Disease Control and Prevention (CDC)

DISPARITY IN INFANT MORTALITY

Infant deaths (less than one year old) per 1,000 live births, 2007 to 2009

			WHITE Deaths per	BLACK Deaths per	
Pat	tio of black to wh	ito	1,000 white	1,000 black	
1	Charlotte	3.9	3.0	11.6	
2	Portland	3.7	4.5	16.6	A
3	St. Louis	3.6	4.3	15.8	
4	Memphis	3.5	5.0	17.5	
5	Washington DC	3.4	4.0	13.4	
6	Pittsburgh	3.3	4.7	15.8	
7	New York	3.2	3.2	10.3	
8	Philadelphia	2.9	4.7	13.7	
9	Cleveland	2.8	5.6	15.9	н
10	Boston	2.8	3.6	10.2	1
11	Los Angeles	2.7	3.7	10.3	G H
12	Chicago	2.7	5.1	13.7	Ë
13	Baltimore	2.7	5.4	14.4	R
14	San Francisco	2.7	3.4	9.0	
Avera	age	2.7	4.9	12.9	AVERAGE
15	Austin	2.6	4.5	11.9	
16	San Antonio	2.6	4.0	10.5	L
17	Cincinnati	2.6	6.7	17.6	w
18	Phoenix	2.6	5.7	14.7	E
19	Detroit	2.6	5.8	14.9	
20	Atlanta	2.6	4.4	11.3	
21	Miami	2.5	3.8	9.7	
22	Denver	2.4	5.5	13.4	
23	Dallas	2.4	5.4	12.9	
24	Minneapolis	2.4	4.8	11.5	
25	Indianapolis	2.3	7.4	17.3	
26	Seattle	2.3	3.7	8.7	
27	Milwaukee	2.3	6.2	14.1	
28	Nashville	2.3	5.1	11.5	₹
29	Oklahoma City	2.2	7.0	15.5	
30	San Diego	2.1	4.2	8.9	
31	Columbus	2.1	6.5	13.6	
32	Louisville	2.0	4.8	9.6	
33	Houston	1.9	5.4	10.5	
34	Kansas City	1.8	6.9	12.5	

Note: Rates included for counties with over 250,000 population and those for which CDC reported mortality rates for both races for a given year.

Data is combined for 2007, 2008 and 2009.

Source: United States Department of Health and Human Services (USDHHS), Centers for Disease Control and Prevention (CDC)

¹¹ National Center for Health Statistics, National Vital Statistics Reports, Volume 61, Number 6; 10 October 2012; Deaths: Preliminary Data for 2011; accessed on 13 January 2014 http://www.cdc.gov/nchs/data/nvsr/nvsr61/nvsr61 06.pdf

¹² MacDorman MF, Mathews TJ. Recent Trends in Infant Mortality in the United States. NCHS data brief, no 9. Hyattsville, MD: National Center for Health Statistics. 2008. http://www.cdc.gov/nchs/data/databriefs/db09.htm

For the Sake of All: A Report on the Health and Well-Being of African Americans in St. Louis

Researchers from Washington University and St. Louis University recently completed a study on the health and well-being of African Americans in St. Louis. The series of publications discusses the connection between a lack of opportunity for African Americans in the St. Louis area and the health of individuals as well as the health and vitality of the entire region.

The study documents how disparities in access, education, and economic factors in the region play an important role in the health and well-being of African Americans and why it matters to everyone. For example, the final report points out that African Americans experience chronic diseases at a higher rate than other groups. The study estimates that \$65 million a year could be saved in the city of St. Louis and St. Louis County if the disparity between whites and blacks in treatment of heart disease, cancer and diabetes was addressed. Some of the ways identified for closing this gap are increasing employment opportunities to provide access to health insurance and workplace wellness programs; and increasing access to services and amenities.

The report concludes with recommendations that stress the importance of addressing disparities in jobs, education and housing in order to improve individual health outcomes and regional prosperity outcomes. In July 2014 the program received a grant to begin implementation of the study's recommendations.

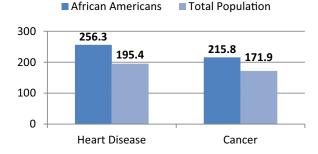
For the Sake of All Recommendations:

- Invest in quality early childhood development for all children.
- Help low-to-moderate income families create economic opportunities.
- Invest in coordinated school health programs for all students.
- Invest in mental health awareness, screening, treatment, and surveillance.
- Invest in quality neighborhoods for all in St. Louis.
- Coordinate and expand chronic and infectious disease prevention and management.

To view the report, go to forthesakeofall.org.

Disparity in Heart Disease and Cancer

St. Louis City and County, age-adjusted deaths per 100,000, 2009-2010



Source: For the Sake of All, 2013

DISPARITY IN HEALTH CARE COVERAGE

Percent of population with no health insurance coverage, 2012

			WHITE	BLACK		
			Percent of white	Percent of black		
Rat	tio of black to wh	ite	population	population		
1	Minneapolis	2.6	6.0	15.4		
2	Milwaukee	2.4	5.9	14.1		
3	Miami	2.3	13.2	30.6		
4	St. Louis	2.2	8.6	18.9		
5	Kansas City	2.2	9.4	20.5		
6	Chicago	2.2	8.3	18.1		
7	Washington DC	2.1	5.4	11.3		
8	New York	2.1	6.8	14.0	Ħ.	
9	Philadelphia	2.0	6.7	13.5	I G	
10	San Francisco	1.9	6.8	13.2	Н	
11	Baltimore	1.9	6.1	11.6	E R	
12	Boston	1.9	3.7	7.0	K	
13	Columbus	1.8	9.6	17.3		
Avera		1.8	9.6	16.8	AVER	AGE
14	Cincinnati	1.8	9.6	17.2	L	
15	Atlanta	1.8	11.8	21.0	ō	
16	Cleveland	1.8	9.2	16.3	w	
17	Seattle	1.7	10.3	18.0	E	
18	Denver	1.7	10.1	17.6		
19	Pittsburgh	1.7	7.5	12.9		
20	Memphis	1.7	10.5	18.0		
21	Louisville	1.7	10.7	18.3		
22	Dallas	1.7	12.8	21.7		
23	Houston	1.7	12.3	20.6		
24	Charlotte	1.6	11.3	18.5		
25	Detroit	1.6	10.5	16.8		
26	Los Angeles	1.6	10.8	16.9		
27	Phoenix	1.5	10.7	16.4		
28	Oklahoma City	1.5	12.9	19.7		
29	Indianapolis	1.5	11.3	16.9		
30	San Diego	1.5	10.7	15.7		
31	Austin	1.4	11.8	17.1		
32	San Antonio	1.4	11.8	16.3		
33	Nashville	1.4	10.8	14.7		
34	Portland	1.4	12.0	16.3		

Source: 2012 American Community Survey 3-Year Estimates, U.S. Census Bureau

In 2012, on average for the 34 peer regions, black individuals were 1.8 times more likely than whites to lack health insurance coverage. The St. Louis region has the 4th highest gap on this indicator with 8.6 percent of white individuals having no insurance compared to 18.9 percent of blacks.

Although the gap between blacks and whites on infant mortality has improved, research indicates that the cancer mortality gap has increased since 1981. According to the National Cancer Institute, the cancer mortality rate in 2010 for black women with breast cancer was 8.8 deaths more per 100,000 women than whites (30.9 for blacks compared to 22.1 for whites). The gap has steadily increased since 1981 when the rate for both black and white women was 32.0 deaths per 100,000 women.¹³

Conclusion

The statistics presented in this report document the substantial level of racial disparity that is part of the lives of people in the St. Louis region and across the country. Despite the passage of the Civil Rights Act 50 years ago and the Brown v. Board of Education Supreme Court decision 60 years ago, there are large disparities between the well-being of white and black people on a range of factors, including income, employment, health, housing and education.

The gaps between white and black people are longstanding and difficult to close. For the most part, areas of the country that were the most segregated 30 years ago remain the most segregated today. These same regions have high levels of disparity between whites and blacks, which suggests a connection between segregation and the inequities that African American individuals encounter.

The challenge is one that deserves attention. Aside from alleviating disadvantages faced by African Americans, closing racial gaps could also enhance the competitiveness of the region. There are many different interpretations for the reasons behind these disparities, and there are many possible policy proposals. It is our hope that this report will contribute to the discussion by providing facts about the challenges facing our region.

¹³ National Cancer Institute, A Stark Gap in Breast Cancer Deaths, the New York Times, accessed on 15 January 2014 at http://www.nytimes.com/interactive/2013/12/20/health/a-racial-gap-in-breast-cancer-deaths.html



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Where We Stand tracks the health of the St. Louis region compared to 34 peer MSAs.* The peer regions are our domestic competition and provide a consistent yardstick to gauge "Where We Stand."

This update provides data on topics that are important to making transportation planning and funding decisions. The data indicates how the region is performing in regards to the principles that guide the St. Louis region's Long-Range Transportation Plan.

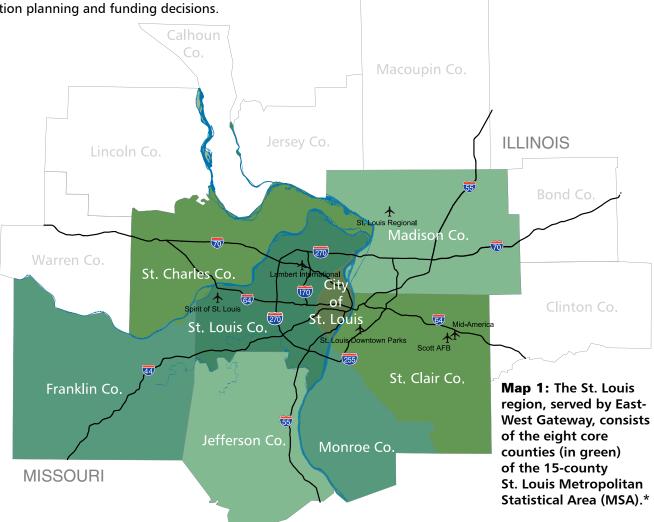
6th Edition, Update 8

June 2014

Transportation

In June 2015 East-West Gateway Council of Governments will produce the St. Louis region's next Long Range Transportation Plan (RTP)—Connected 2045. In the year leading up to the publication of the plan, the public will help set priorities that will guide how transportation funding is allocated in the region. This *Where We Stand Update* provides context for these conversations by comparing the St. Louis region to 34 peer regions on a set of data that indicate how the region is performing on the 10 principles that guide the region's transportation planning and are important to consider in making transportation planning and funding decisions.

Compared to the peer regions, St. Louis provides an extensive transportation network with roads and bridges that are in relatively good condition. This network facilitates economic development by providing businesses with low congestion, tremendous freight assets, and a reliable system. The region does not provide as many transportation options as many of the peer regions, contributing to less accessibility and higher transportation costs for residents.



*MSAs (Metropolitan Statistical Areas) are geographic entities delineated by the Office of Management and Budget (OMB). MSAs are areas with "at least one urbanized area of 50,000 or more population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties."

Guiding Principles

The Where We Stand tables in this report are organized around 10 guiding principles. These principles represent what the people of St. Louis value. They guide the region's transportation planning and allocation of funding. The principles were established through a public engagement process in 2009, Renewing the Region, that asked citizens and a range of regional and local leaders what issues are likely to affect the region's growth and prosperity as well as what is most important to them. The principles recognize the importance of transportation to the everyday lives of individuals, the key role it plays in economic growth, and the potential it has to impact environmental assets.

The principles were established for the *Regional Transportation Plan 2040* and carried forward for the 2045 plan. Although the principles are specific to the St. Louis region, they also closely align with the goals of the federal transportation legislation, MAP-21.

MAP-21

Moving Ahead for Progress in the 21st Century Act

Enacted in July 2012, MAP-21 is the federal legislation that guides federal transportation investments. The program provides over \$105 billion for surface transportation programs and over \$10.6 billion for public transportation for fiscal years 2013 and 2014. Core highway formula programs under MAP-21 include the National Highway Performance Program (NHPP), Surface Transportation Program (STP), Congestion Mitigation and Air Quality Improvement Program (CMAQ), and Highway Safety Improvement Program (HSIP). Core programs for public transportation include Urbanized Area Formula Grants, State of Good Repair Grants and New Starts/Small Starts.

The legislation established the following national performance goals, which closely align with the St. Louis region's Guiding Principles:

- Safety
- Infrastructure condition
- Congestion reduction
- System reliability
- Freight movement and economic vitality
- Environmental sustainability
- Reduced project delivery delays

What is the Regional Transportation Plan?

East-West Gateway Council of Governments (EWG) is the St. Louis region's federally designated Metropolitan Planning Organization (MPO). In accordance with federal law, EWG develops a long-range Regional Transportation Plan (RTP) every four years.

Connected 2045—The region's next RTP will be produced in 2015. The plan will include:

- An investment plan for major projects using federal transportation funds.
- A listing of Missouri and Illinois departments of transportation and Metro projects that are **priority projects** (affordable within the region's anticipated resources for the next 30 years) and **illustrative projects** (projects the region would like to pursue, if funds become available).
- **Guiding principles** that will be used to evaluate local projects competing for federal funds. These local projects will then be listed in the annual Transportation Improvement Program (TIP). All projects in the TIP must be consistent with the RTP's principles.

More information on *Connected2045* and the region's current long-range plan, *Regional Transportation Plan 2040*, can be found at www.ewgateway.org/trans/longrgplan/longrgplan.htm

Preserve and Maintain the Existing System

One of the major challenges facing states and metropolitan areas is keeping the transportation system in good repair. The decades-long emphasis on system expansion has limited the resources available for rehabilitating and replacing aging system components. Failing pavements, deficient bridges, and deteriorated transit facilities create safety problems, reduce operational efficiency, and negatively impact travel quality. Deferring preservation work is also significantly more expensive than pursuing a regular cycle of maintenance, rehabilitation, and replacement. ~ Regional Transportation Plan 2040.

ROAD NETWORK

Freeway lane-miles per urbanized area square mile, 2011

1	San Francisco	3.0	
2	Los Angeles	3.0	A
3	Kansas City	2.9	
4	St. Louis	2.7	
5	San Diego	2.7	
6	Salt Lake City	2.2	
7	Denver	2.2	
8	Columbus	2.2	
9	Seattle	2.1	н
10	San Antonio	2.1	I G
11	Oklahoma City	2.0	H
12	New York	2.0	E
13	Minneapolis	2.0	R
14	Cleveland	2.0	
Aver	age	1.9	AVERAGE
15	Miami	1.8	
16	Portland	1.8	L
17	Dallas	1.8	W
18	Louisville	1.8	E
19	Baltimore	1.8	••
20	Austin	1.7	
21	Houston	1.7	
22	Nashville	1.7	
23	Cincinnati	1.6	
24	Washington DC	1.5	
25	Milwaukee	1.5	
26	Boston	1.5	
27	Detroit	1.4	
28	Memphis	1.4	V
29	Indianapolis	1.4	
30	Phoenix	1.4	
31	Pittsburgh	1.4	
32	Chicago	1.3	
33	Philadelphia	1.3	
34	Atlanta	1.1	
35	Charlotte	0.9	

Source: Urban Mobility Report, 2012, Texas Transportation Institute; U.S. Census 2010

- 1 The first paragraph following each guiding principle is from the Regional Transportation Plan 2040 that East-West Gateway Board of Directors adopted in July 2011. They provide information on what was learned during Renewing the Region initiative and provide context for the long-range transportation plan.
- "Urbanized Area" is a Census Bureau designation for areas that consist of densely developed territory which contain 50,000 or more people. The St. Louis urbanized area is 978 square miles, including the St. Louis MO-IL and Alton, IL urbanized areas.
- 3 State of the System and Technical Supplement to Regional Transportation Plan 2040, July 2011.
- 4 Regional Transportation Plan 2040, July 2011.

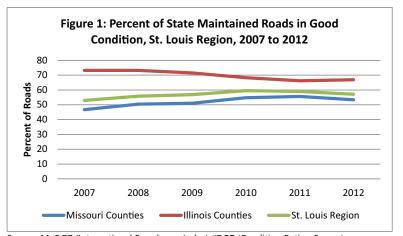
Road Network

The St. Louis region has one of the most extensive highway systems in the nation with 2,612 lane-miles of freeway. This is the 9th largest number of freeway lane-miles among the peer regions when looking at total miles in each region. Since the regions are of varying sizes, the Road Network Table provides the number of lane-miles per urbanized area square mile.² St. Louis has the 4th most freeway lane-miles per urbanized area square mile.

For decades the United States built a road network that helped facilitate economic growth, housing development and the American lifestyle. As the infrastructure ages, preservation of the system has become the St. Louis region's top priority for transportation investment. The region's current long-range transportation plan proposes spending \$30.8 billion over the 28 year planning horizon with 87 percent of the funding allocated to preservation and operations.3

Pavement Conditions

Missouri and Illinois departments of transportation maintain a total of 10,553 lane-miles on roadways in the St. Louis region. All of the roadways are assessed based on the amount of cracking, rutting, raveling, patching and a number of other deficiencies that characterize the condition of the pavement. The portion of roads rated "good" increased in 2003 when the region began allocating higher levels of funding to preservation.⁴ Figure 1 shows that the portion of roads in good condition in the Missouri portion of the region has continued to increase. The portion of roads in good condition in the Illinois portion of the region decreased from 73 percent in 2007 to 67 percent in 2012 but remains higher than the portion in good condition in Missouri.



Source: MoDOT (International Roughness Index), IDOT (Condition Rating Survey)

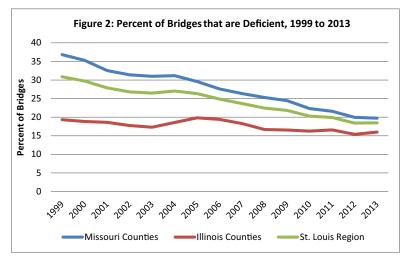
Table 1 provides the total lane-miles and portion of the roads that are in good, fair or poor condition by county for the St. Louis region. Franklin and St. Charles counties have less than 50 percent of their roadways in good condition. The interstates in these counties have similar ratings of good condition as in the other counties but the condition of the arterial roads, which have lower rates of vehicles traveling on them, are the ones that tend to be in fair or poor condition.

Bridge Conditions

Bridges serve as an integral part of the transportation network. In the St. Louis region, the multitude of rivers and waterways are recognized as cornerstones of the history and vitality of the region. These waterways also require a considerable number of bridges to connect the road network. There are over 4,000 bridges with a total of 3.7 million square meters of deck area in the 15-county St. Louis Metropolitan Statistical Area.⁵ Among the peer regions, St. Louis ranks 8th highest for the number of

bridges and 9th in the total square meters of deck area for the bridges. The St. Louis region has taken relatively good care of its bridges, ranking 24th for the percent of bridge deck area that is structurally deficient or functionally obsolete. Of the 10 regions with the most bridge deck area, only Miami has a smaller portion of its bridges classified as deficient than St. Louis.

Figure 2 provides the percent of bridges that are deficient in the eightcounty region from 1999 to 2013. Over this time period the percent of bridges that are functionally obsolete or structurally deficient reduced substantially while the number of total bridges in the region increased. In 1999, there were 3,012 bridges of which 513 were functionally obsolete and 417 were structurally deficient. In 2013, there were 251 additional bridges but 120 fewer that were functionally obsolete and 207 fewer that were structurally deficient.



Source: FHWA, National Bridge Inventory, 2013

Table 1: Condition of State Maintained Roads by County, St. Louis Region, 2012

		Condition (Percent of To		t of Total)
County	Total Lane Miles	Good	Fair	Poor
Illinois Counties	2,934	66.9	22.3	10.8
Madison	1,533	66.3	20.7	13.0
Monroe	175	66.5	27.3	6.2
St. Clair	1,227	67.7	23.7	8.6
Missouri Counties	7,619	53.4	37.5	9.1
Franklin	1,288	35.8	50.0	14.2
Jefferson	1,083	51.8	41.2	7.0
St. Charles	1,282	44.9	42.9	12.2
St. Louis	3,628	62.4	30.9	6.7
City of St. Louis	339	61.0	27.8	11.2
St. Louis Region	10,553	57.1	33.3	9.6

Source: MoDOT (International Roughness Index), IDOT (Condition Rating Survey)

DEFICIENT BRIDGES

Percent of bridge deck area that is structurally deficient or functionally obsolete, 2013

1	New York	63.0	
2	Boston	56.7	A
3	Pittsburgh	55.2	
4	San Francisco	50.4	
5	Seattle	49.3	
6	Detroit	49.2	
7	Chicago	47.1	
8	Cleveland	44.7	
9	Philadelphia	42.5	н
10	Los Angeles	41.7	I G
11	Cincinnati	37.4	H
12	Washington DC	37.1	Ë
13		36.6	R
14	Dallas	34.2	
Avera	age	33.9	AVERAGE
15	Charlotte	32.0	
16	Houston	30.9	P P
17	Louisville	30.8	W
18	Milwaukee	30.6	E
19	Baltimore	30.5	1
20	Indianapolis	30.1	
21	Kansas City	30.0	
22	Memphis	29.8	
23	Columbus	29.8	
24	St. Louis	29.1	
25	Oklahoma City	28.6	
26	Denver	27.6	
27	Phoenix	26.2	
28	San Antonio	24.0	V
29	Austin	22.7	
30	Miami	22.7	
31	Nashville	20.9	
32	Atlanta	20.3	
33	San Diego	19.4	
34	Minneapolis	14.6	
35	Salt Lake City	9.3	

Source: FHWA, National Bridge Inventory, 2013

⁵ Bridge data is provided for the St. Louis 15-county Metropolitan Statistical Area (MSA) for ease of comparison with other metropolitan areas but the East-West Gateway transportation planning and allocation of federal funds applies only to the core eight-counties of the MSA. See Table 2 for bridge data for the eight-county region.

Table 2 provides the number of bridges by county in the St. Louis eight-county region. About half of the bridges in the region are in the three central counties (St. Louis and St. Clair counties and the city of St. Louis). The bridges in these counties also represent about 50 percent of the structurally deficient bridges and 72 percent of the region's functionally obsolete bridges. This is expected since the infrastructure in these areas tends to be older and was built according to older design standards. Neither being structurally deficient nor functionally obsolete means that a bridge is unsafe. Repairs are made to make them safe and unsafe bridges are closed. Identification of bridge deficiencies allows for timely, less costly bridge maintenance and guides investment decisions.

Table 2: Condition of Bridges by County, St. Louis Region, 2013

County	Total Bridges	Functionally Obsolete (percent)	Structurally Deficient (percent)
Illinois Counties	1,082	10.4	5.5
Madison	507	10.1	7.1
Monroe	126	4.8	4.8
St. Clair	449	12.5	4.0
Missouri Counties	2,181	12.8	6.9
Franklin	326	4.9	7.4
Jefferson	375	5.1	7.2
St. Charles	353	5.4	2.6
St. Louis	880	17.4	6.4
City of St. Louis	247	29.6	13.8
St. Louis Region	3,263	12.0	6.4

Note: Does not include bridges built in the last 10 years. Source: FHWA, National Bridge Inventory, 2013

Support Public Transportation

Great cities have great transit systems. A healthy regional economy includes a public transportation option for people who need it to get to their jobs, to school and to other essential destinations. Residents who do not ride on transit rely on many who do throughout the region. Public transit spurs economic development, lowers the cost of living for those who use it, and reduces traffic congestion and improves air quality by taking cars off the road.

~ Regional Transportation Plan 2040

Mode Share

There are two primary providers of public transit in the St. Louis region—Bi-State Development Agency (Metro) and Madison County Transit.⁶ About 2.3 percent of workers in the St. Louis region use the agencies' bus, light rail, and call-a-ride services as their primary means for commuting to work. The region ranks below the peer region average of 5.2 percent of workers

Bridge Ratings and Classifications

States inspect bridges on public roads at least once every 24 months. Bridges are rated and classified based on the criteria in the National Bridge Inspection Standards (NBIS).

Structurally Deficient: a bridge that is in poor (or worse) condition due to deterioration and/or damage. Structurally deficient bridges are not necessarily unsafe. To remain open, they typically must be repaired or vehicle weight limits must be restricted.

<u>Functionally Obsolete:</u> a bridge that does not meet current design standards due to a change in standards and/or a change in the traffic demand on the structure.

 \sim Federal Highway Administration

TRANSIT MODE SHARE

Percent of total workers whose means of transportation is public transit, 2012

1	New York	31.0
2	San Francisco	15.6
3	Washington DC	14.1
4	Boston	12.2
5	Chicago	11.1
6	Philadelphia	9.4
7	Seattle	8.5
8	Baltimore	6.5
9	Portland	6.0
10	Los Angeles	6.0
11	Pittsburgh	5.5
Aver	age	5.2
12		4.4
13	Minneapolis	4.3
14	Miami	4.2
15	Salt Lake City	3.9
16	Milwaukee	3.7
17	Cleveland	3.2
18	Atlanta	2.9
19	San Diego	2.8
20	Houston	2.6
21	Austin	2.3
22	St. Louis	2.3
23	San Antonio	2.3
24	Charlotte	2.1
25		2.1
26		1.8
27		1.8
28	Columbus	1.6
29	Detroit	1.6
30	Dallas	1.5
31	Memphis	1.2
32	Indianapolis	1.2
33	Kansas City	1.1
34		1.1
35	Oklahoma City	0.4

AVERAGE

OW E R

Source: American Community Survey, U.S. Census Bureau

⁶ Metro operates MetroBus and MetroLink in the city of St. Louis, St. Louis County and St. Clair County (St. Clair County Transit contracts with Metro for service), and Metro Call-A-Ride in the city of St. Louis and St. Louis County. Madison County Transit provides fixed route bus service throughout Madison County, Illinois as well as service to the East St. Louis MetroLink stop in St. Clair County and to downtown St. Louis.

using public transit, coming in at 22nd. The regions with the most extensive public transportation systems, and the largest portions of their populations using public transit, tend to be the most densely populated regions.

The portion of the population in the St. Louis region using transit has fluctuated some over the past 10 years but has remained between 2.3 percent (2012) and 2.7 percent (2008). (See Figure 3 on Page 11.)

TRANSIT COVERAGE

Share of working-age residents living in block groups served by transit, 2010

1	Los Angeles	96.0
2	San Francisco	91.7
3	New York	89.6
4	Salt Lake City	89.0
5	Miami	88.8
6	Seattle	85.3
7	Denver	83.7
8	Portland	83.5
9	San Diego	83.0
10	Washington D.C.	82.5
11	Chicago	78.8
12	Philadelphia	76.9
13	Phoenix	70.5
14	Boston	69.4
15	Baltimore	68.3
16	San Antonio	68.2
17	Milwaukee	67.4
18	Minneapolis	67.0
19	Pittsburgh	66.8
20	Cleveland	66.2
Avera		65.3
21	Detroit	59.7
22	Louisville	59.5
23	St. Louis	56.6
24	Columbus	55.7
25	Memphis	51.4
26	Cincinnati	48.0
27	Austin	47.3
28	Kansas City	47.2
29	Dallas	46.3
30	Houston	44.2
31	Charlotte	42.3
32	Indianapolis	41.6
33	Oklahoma City	41.6
34	Atlanta	37.8
35	Nashville	32.2

Source: Metropolitan Policy Program at Brookings, 2011

TRANSIT SERVICE FREQUENCY

Median wait time for morning rush hour transit service In minutes, 2010

1	Oklahoma City	19.2
2	Memphis	15.8
3	Nashville	15.7
4	Kansas City	14.2
5	Pittsburgh	14.2
6	Louisville	13.5
7	Charlotte	13.4
8	Indianapolis	13.3
9	Minneapolis	11.6
10	Cincinnati	11.4
11	Columbus	11.4
12	Detroit	11.4
13	St. Louis	11.2
14	Dallas	11.1
15	Miami	10.6
16	San Antonio	10.4
Avera	ige	10.3
17	Atlanta	10.2
18	Philadelphia	9.8
19	Cleveland	9.5
20	Phoenix	9.0
21	Boston	8.9
22	Seattle	8.8
23	San Diego	8.7
24	Austin	8.6
25	Salt Lake City	8.5
26	San Francisco	8.5
27	Denver	8.1
28	Baltimore	7.7
29	Portland	7.4
30	Houston	7.3
31	Chicago	7.2
32	Washington D.C.	6.6
33	Milwaukee	6.4
34	Los Angeles	6.2

HIGHER

AVERAGE

LOWER

Source: Metropolitan Policy Program at Brookings, 2011

New York

Transit Coverage and Connectivity

The Transit Coverage, Transit Service Frequency and Mobility Index tables indicate how extensive the region's public transportation system is and how well the system is meeting the need for transit in the region. Regions in the West and Northeast tend to provide the most extensive transit systems with regions in the Midwest having less coverage and regions in the South providing the lowest levels of coverage. St. Louis has similar coverage to other midwestern regions.

In the St. Louis region 56.6 percent of working age residents live in a community where they are within three-fourths of a mile from at least one transit stop. This is below the peer average of 65.3 percent. The range of transit coverage among the peer regions is sizeable with over 90 percent of residents having access to transit in Los Angeles and San Francisco and less than 40 percent of residents having access in Nashville and Atlanta.

The St. Louis region ranks higher than the peer average for transit service frequency, at 13th with an average wait time for transit service in the morning rush hour of 11.2 minutes, about one minute slower than the peer region average of 10.3 minutes. Three-fourths of the peer regions have wait times of less than 12 minutes with only a few providing considerably more frequent service.

The Mobility Index Table shows how extensive regional transit systems are relative to the need for public transportation, based on the proportion of households without access to a vehicle. The St. Louis region ranks below the peer region average, at 25th with 23 annual transit revenue hours of service per household without a vehicle.

About 9 percent of all households in the St. Louis region do not own an automobile (about 95,700 households). The peer regions range from 31 percent of residents not having access to a vehicle to less than 5 percent. The St. Louis region ranks about average for the peers, at 15th. The regions with the highest proportions of their populations with no access to a vehicle have extensive transit systems, including New York, Philadelphia, Boston, San Francisco and Chicago.

MOBILITY INDEX

Annual transit revenue hours of service per household without a vehicle, 2012

1	Salt Lake City	75.6
2	Seattle	62.1
3	Denver	58.0
4	Washington D.C.	52.5
5	Los Angeles	46.6
6	San Diego	46.5
7	Austin	46.4
8	San Francisco	42.3
9	Portland	40.4
10	San Antonio	40.3
11	Minneapolis	36.9
12	Chicago	35.0
13	Miami	34.9
14	Houston	34.0
15	Boston	33.1
16	Dallas	33.0
Aver	age	31.9
17	Atlanta	30.0
18	Phoenix	29.8
19	Baltimore	29.4
20	Philadelphia	26.6
21	Charlotte	26.3
22	New York	26.0
23	Milwaukee	24.4
24	Pittsburgh	23.3
25	St. Louis	23.0
26	Louisville	20.8
27	Columbus	19.8
28	Cleveland	18.7
29	Kansas City	17.5
30	Cincinnati	17.2
31	Nashville	16.4
32	Detroit	16.2
33	Indianapolis	14.1
34	Memphis	12.5
35	Oklahoma City	7.2

Source: National Transit Database; American Community Survey, U.S. Census Bureau

NO-VEHICLE HOUSEHOLDS

Percent of households, 2012

1	New York	31.5	
2	Philadelphia	13.9	
3	Boston	13.2	
4	San Francisco	12.8	
5	Chicago	12.6	
6	Baltimore	11.9	
7	Cleveland	11.3	Н
8	Milwaukee	11.0	I G
9	Pittsburgh	10.9	Ĥ
10	Washington D.C.	10.4	E R
11	Detroit	9.7	R
12	Miami	9.2	
Aver		9.0	AVERAGE
13	Portland	8.8	L
14	Los Angeles	8.8	ō
15	St. Louis	8.6	Ā
16	Memphis	8.4	E R
17	Cincinnati	8.3	
18	Louisville	8.1	
19	Seattle	7.7	
20	Minneapolis	7.4	
21	Columbus	6.9	
22	Indianapolis	6.8	
23	San Antonio	6.8	
24	Kansas City	6.7	
25	Phoenix	6.6	
26	Denver	6.4	V
27	San Diego	6.2	
28	Atlanta	6.2	
29	Salt Lake City	6.2	
30	Charlotte	6.2	
31	Oklahoma City	6.0	
32	Houston	6.0	
33	Nashville	5.5	
34	Dallas	5.1	
35	Austin	4.7	

Source: American Community Survey, U.S. Census Bureau

If Public Transportation was discontinued in the St. Louis region, it is estimated an additional

\$66.5 million a year would be lost to congestion, through an additional

2 Hour delay per auto commuter a year,

and 1.3 million gallons of wasted fuel.

7

Support Neighborhoods and Communities throughout the Region

A healthy metropolitan economy is comprised of healthy neighborhoods throughout the eight counties. St. Louis is a large, diverse region, with historic and newer rural, suburban and urban communities that all make vital contributions to the metropolitan economy. They support residential life, employment, schools and places to visit for area residents and tourists. Where appropriate to support existing communities, strategic enhancement or expansion to the system may be warranted. ~ Regional Transportation Plan 2040

The St. Louis region is known for its distinct and strong communities. In public engagement efforts for the regional plan for sustainable development, *OneSTL*, a common theme heard from residents throughout the region was the pride they have of their individual communities and their connection to the greater St. Louis metropolitan area.

These strong communities are spread throughout the eight counties and over 8,600 square miles. The transportation network is called on to connect people from their homes to their jobs, to stores, and to entertainment in a way that is affordable and provides residents with choices.

Housing + Transportation Affordability

One way to examine how well the region is meeting the accessibility needs of residents is to look at the combined affordability of housing and transportation (H+T). These two costs are the largest household expenditures for most households. H+T costs indicate how efficiently the transportation network connects people to the places they need to go and if the region is providing people with options to live and work in locations that make sense for them.

The St. Louis region ranks 26th among its peer regions with residents paying an average of 49.2 percent of the median household income on housing and transportation. Although the region fares better than many of its peers, the region is not considered affordable on this measure. A standard definition used for housing affordability has been 30 percent of household income. The Center for Neighborhood Technology (CNT) recognized the importance of measuring housing and transportation costs together and defines "affordability" as the combined cost of housing and transportation at less than 45 percent of household income. About 60 percent of households in the region pay more than 45 percent of their income on these two expenses, leaving a smaller portion of income for all other expenses such as food, education, clothing and entertainment.7,8

HOUSING PLUS TRANSPORTATION AFFORDABILITY

Transportation and housing costs as a percent of median household income, 2005-2009

1	Miami	60.2
2	Memphis	57.6
3	Los Angeles	56.5
4	San Diego	55.4
5	Oklahoma City	53.1
6	Nashville	52.9
7	Phoenix	52.8
8	Cleveland	52.8
9	Atlanta	52.4
10	Detroit	52.3
11	Dallas	52.2
12	San Antonio	52.2
13	Charlotte	51.9
14	Columbus	51.9
15	Portland	51.8
16	Austin	51.8
17	Houston	51.3
18	Louisville	51.3
Avera	ige	51.0
19	Milwaukee	50.7
20	Cincinnati	50.7
21	Indianapolis	50.3
22	Salt Lake City	50.2
23	Chicago	50.0
24	Pittsburgh	49.9
25	Kansas City	49.4
26	St. Louis	49.2
27	Seattle	49.1
28	Denver	49.0
29	San Francisco	48.4
30	Philadelphia	47.9
31	New York	47.9
32	Boston	47.1
33	Minneapolis	47.0
34	Baltimore	46.5
35	Washington D.C.	43.1

Source: Center for Neighborhood Technology

TRANSPORTATION EXPENSES

As a percent of median household income, 2005-2009

1	Oklahoma City	30.4
2	Memphis	30.4
3	Nashville	29.0
4	San Antonio	28.6
5	Louisville	28.3
6	Pittsburgh	28.1
7	Charlotte	27.2
8	Cleveland	26.9
9	Cincinnati	26.8
10	Indianapolis	26.8
11	Columbus	26.6
12	Miami	26.2
13	St. Louis	26.2
14	Kansas City	26.2
15	Atlanta	26.0
16	Houston	26.0
17	Phoenix	25.9
18	Detroit	25.6
19	Austin	25.4
20	Salt Lake City	25.4
Aver		24.6
21	Milwaukee	24.9
22	Portland	24.4
23	Dallas	23.7
24	San Diego	23.1
25	Los Angeles	22.7
26	Denver	22.1
27	Minneapolis	22.0
28	Chicago	21.8
29	Philadelphia	21.6
30	Seattle	21.4
31	Baltimore	21.3
32	Boston	19.3
33	San Francisco	17.8
34	New York	17.6

AVERAGE

LOWER

Source: Center for Neighborhood Technology

⁷ U.S. Census Bureau American Community Survey (2005-2009), LEHD, AAA 2011 Your Driving Costs Brochure, East-West Gateway Council of Governments.

⁸ The State of the System report for the Long-Range Transportation Plan 2040 provides a series of maps that show the lack of affordable options for residents in the region when considering housing and transportation costs and for varying gas price levels. The report can be accessed at http://www.ewgateway.org/pdffiles/Library/Trans/RTP2040/RTP-StateOfTheSystem-2011.pdf

Transportation Expenses

Unlike the region's performance on the H+T Affordability measure, transportation costs in the St. Louis region are less affordable than many of the peer regions. The St. Louis region ranks 13th with average transportation costs accounting for over a quarter (26.2 percent) of the median household income. High transportation costs

in St. Louis are due in part to the region's lower than average transit coverage and higher than average use of private vehicles for transportation (See Transportation Choice on Page 11 and Travel Density on Page 18). Regions with more affordable transportation costs tend to be the more densely populated regions and those with extensive public transit systems.

Foster a Vibrant Downtown

Every world-class city boasts a downtown skyline with first class office space, hotels, restaurants, residential choices, entertainment venues, green space, and shopping in a dense, walkable and attractive setting. Whether area residents work downtown or visit for sports or entertainment, they expect downtown to flourish and they take pride in its success. As a key job center, the central business district is an economic engine that provides important linkages among businesses. large and small, the outside world, and the people who live and work in the entire region. ~ Regional Transportation Plan 2040

As often as residents spoke about the pride they have for their local communities in public engagement meetings for OneSTL, they just as frequently spoke about the pride they have of the larger St. Louis area, which is most often represented by downtown St. Louis—where the Gateway Arch is, the Cardinals play, where tourists visit and where people from every corner of the region go to work and play. Residents who live in the urban, suburban and rural parts of the region recognized the importance of a vital downtown to the strength of the entire region.

The amount of employment and population located in downtown are indicators of the strength of the region's central core. In St. Louis, the downtown area has a relatively low number of jobs and population, indicating the need for additional support for this key area of the region.

EMPLOYMENT IN CENTRAL BUSINESS DISTRICT

Share of jobs within 3 miles of central business district, 2010

1	Salt Lake City	31.8
2	New York	30.9
3	Boston	29.2
4	Louisville	28.9
5	Seattle	27.4
6	Nashville	27.0
7	Oklahoma City	26.4
8	Pittsburgh	25.2
9	San Francisco	25.2
10	Minneapolis	25.1
11	Austin	24.3
12	Miami	24.3
13	Milwaukee	24.1
14	Portland	23.8
15	Charlotte	23.5
16	Washington D.C.	21.8
17	Denver	21.5
18	Columbus	21.2
Aver	age	20.1
19	Chicago	19.5
20	Indianapolis	19.5
21	Phoenix	18.1
22	Cincinnati	17.7
23	Baltimore	17.5
24	Kansas City	16.9
25	Cleveland	15.4
26	Philadelphia	15.2
27	San Antonio	13.8
28	Dallas	13.8 13.3
		13.8
28 29 30	Dallas St. Louis Memphis	13.8 13.3 13.2 12.4
28 29 30 31	Dallas St. Louis Memphis San Diego	13.8 13.3 13.2 12.4 12.3
28 29 30 31 32	Dallas St. Louis Memphis San Diego Houston	13.8 13.3 13.2 12.4 12.3 10.7
28 29 30 31	Dallas St. Louis Memphis San Diego Houston Atlanta	13.8 13.3 13.2 12.4 12.3
28 29 30 31 32	Dallas St. Louis Memphis San Diego Houston	13.8 13.3 13.2 12.4 12.3 10.7

Source: Metropolitan Policy Program at Brookings, 2013

EMPLOYMENT DISPERSAL

Percentage point change in share of jobs within 3 miles of central business district, 2000-2010

1	Milwaukee	1.5
2	Chicago	1.0
3	Boston	0.9
4	Washington D.C.	0.1
5	Detroit	0.0
6	San Francisco	0.0
7	Los Angeles	-0.1
8	Atlanta	-0.4
9	Seattle	-0.6
10	New York	-0.7
11	Pittsburgh	-0.9
12	Minneapolis	-1.0
13	Memphis	-1.2
14	Louisville	-1.3
15	San Diego	-1.4
16	Philadelphia	-1.5
17	St. Louis	-1.7
Avera	ge	-1.8
18	Baltimore	-1.8
19	Cincinnati	-1.9
20	Charlotte	-2.0
21	Cleveland	-2.1
22	Denver	-2.1
23	Portland	-2.3
24	Miami	-2.4
25	Oklahoma City	-2.4
26	Columbus	-2.5
27	Dallas	-2.6
28	Austin	-2.7
29	Indianapolis	-2.9
30	Nashville	-3.0
31	Houston	-3.3
32	Kansas City	-3.6
33	Salt Lake City	-4.2
34	San Antonio	-5.4
35	Phoenix	-6.8

Source: Metropolitan Policy Program at Brookings, 2013 HIGHER

AVERAGE

LOWER

Employment Dispersal

The St. Louis region is one of the most decentralized regions with only 13.2 percent of jobs within three miles of the central business district (CBD).9 Over the past decade, St. Louis has seen a decrease of 1.7 percentage points in the portion of jobs that are within three miles of the central business district—in line with the average change among the peers. (See Employment Dispersal Table on Page 9.) Seven of the 10 regions that experienced the largest decrease in the portion of jobs near the CBD also saw the largest increases in total employment over the last decade.

In 2010, 93 percent of the St. Louis MSA's 1.17 million jobs were within 35 miles of the CBD. Table 3 provides the number of jobs within 35 miles of the CBD as well as what portion of those jobs are within three, three to 10 and 10 to 35 miles of the CBD for 2000, 2007 and 2010. The **Brookings Metropolitan Policy Program** found that St. Louis shares characteristics with other regions that have highly decentralized employment. Regions with a larger number of workers tend to have more decentralized employment patterns, particularly midwestern regions with a history of manufacturing. Additionally, a relationship was found between employment decentralization and the number of jurisdictions within a region. Regions such as Chicago, Detroit, Philadelphia and St. Louis, which have large numbers of local governments, tend to have larger portions of jobs further from the CBD.10

Population Dispersal

Similarly, the residents of the St. Louis region are more dispersed throughout the region and less concentrated in the central city than residents are in many of the peer regions. St. Louis ranks 32nd among the 35 peers for the portion of the population that lives in the central city (city of St. Louis). The land area of the city of St. Louis is also a smaller percentage of the total MSA land area than most of the peer regions. At 61.9 square miles, the land area of the city of St. Louis accounts for less than 1 percent of the land area of the MSA, the second smallest proportion among the peers.

Table 3: Employment Dispersal, St. Louis MSA 2000, 2007 and 2010

	2000	2007	2010	Percent Change in Number of Jobs 2000 to 2010
Total Number Of Jobs within 35 miles of CBD	1,149,391	1,168,959	1,083,419	-5.7
Share of Jobs within 3 miles of CBD (Percent)	14.9	13.6	13.2	-16.5
Share of Jobs 3-10 miles from CBD (Percent)	27.5	24.8	25.6	-12.3
Share of Jobs 10-35 miles from CBD (Percent)	57.6	61.6	61.2	0.2

Source: Job Sprawl Stalls: The Great Recession and Metropolitan Employment Location, Metropolitan Policy Program at Brookings, 2013

POPULATION DISPERSAL

Change in population living outside central city, 2000-2012

1	Detroit	23.5
2	Dallas	18.3
3	Cincinnati	16.8
4	Atlanta	16.5
5	Houston	16.3
6	Salt Lake City	15.8
7	Phoenix	15.4
8	Cleveland	14.9
9	St. Louis	13.3
10	Austin	12.6
11	Baltimore	11.5
12	Chicago	10.4
13	Louisville	9.1
14	Memphis	8.3
15	Washington D.C.	7.9
16	Kansas City	7.7
17	San Antonio	7.4
18	Minneapolis	7.2
	rage	6.6
19	Pittsburgh	5.7
20	Denver	5.1
21	Nashville	4.1
22	Portland	3.9
23	Milwaukee	3.9
24	Philadelphia	3.6
25	Seattle	3.5
26	San Diego	3.1
27	San Francisco	1.6
28	Indianapolis	1.4
29	Los Angeles	1.1
30	Miami	8.0
31	Oklahoma City	0.0
32	Columbus	-1.5
33	Boston	-2.4
34	New York	-2.9
35	Charlotte	-34.4

Source: American Community Survey, U.S. Census Bureau

Note: Current MSA boundaries were utilized. The central city is the city with the largest population.

LARGEST CITY SHARE OF POPULATION

Percent of total, 2012

1 San Antonio 61.9 2 Memphis 49.1 3 Indianapolis 46.5 4 Louisville 46.5 5 Oklahoma City 46.2 6 Austin 45.9 7 New York 43.5 8 Columbus 43.1 9 Charlotte 42.3 10 San Diego 42.1 11 Milwaukee 38.2 12 Nashville 37.9 13 Houston 34.8 14 Phoenix 34.4 15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas <th></th> <th></th> <th></th>			
3 Indianapolis 46.5 4 Louisville 46.5 5 Oklahoma City 46.2 6 Austin 45.9 7 New York 43.5 8 Columbus 43.1 9 Charlotte 42.3 10 San Diego 42.1 11 Milwaukee 38.2 12 Nashville 37.9 13 Houston 34.8 14 Phoenix 34.4 15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle	1	San Antonio	61.9
4 Louisville 46.5 5 Oklahoma City 46.2 6 Austin 45.9 7 New York 43.5 8 Columbus 43.1 9 Charlotte 42.3 10 San Diego 42.1 11 Milwaukee 38.2 12 Nashville 37.9 13 Houston 34.8 14 Phoenix 34.4 15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3	_	Memphis	49.1
5 Oklahoma City 46.2 6 Austin 45.9 7 New York 43.5 8 Columbus 43.1 9 Charlotte 42.3 10 San Diego 42.1 11 Milwaukee 38.2 12 Nashville 37.9 13 Houston 34.8 14 Phoenix 34.4 15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake Cit		Indianapolis	46.5
6 Austin 45.9 7 New York 43.5 8 Columbus 43.1 9 Charlotte 42.3 10 San Diego 42.1 11 Milwaukee 38.2 12 Nashville 37.9 13 Houston 34.8 14 Phoenix 34.4 15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati<	4		46.5
7 New York 43.5 8 Columbus 43.1 9 Charlotte 42.3 10 San Diego 42.1 11 Milwaukee 38.2 12 Nashville 37.9 13 Houston 34.8 14 Phoenix 34.4 15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston	5	Oklahoma City	46.2
8 Columbus 43.1 9 Charlotte 42.3 10 San Diego 42.1 11 Milwaukee 38.2 12 Nashville 37.9 13 Houston 34.8 14 Phoenix 34.4 15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 27 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30	6	Austin	45.9
9 Charlotte 42.3 10 San Diego 42.1 11 Milwaukee 38.2 12 Nashville 37.9 13 Houston 34.8 14 Phoenix 34.4 15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3	7	New York	43.5
10 San Diego 42.1 11 Milwaukee 38.2 12 Nashville 37.9 13 Houston 34.8 14 Phoenix 34.4 15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 S	8	Columbus	43.1
11 Milwaukee 38.2 12 Nashville 37.9 13 Houston 34.8 14 Phoenix 34.4 15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	9	Charlotte	42.3
12 Nashville 37.9 13 Houston 34.8 14 Phoenix 34.4 15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	10	San Diego	42.1
13 Houston 34.8 14 Phoenix 34.4 15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 17 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	11	Milwaukee	38.2
14 Phoenix 34.4 15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	12	Nashville	37.9
15 Los Angeles 29.6 16 Chicago 28.5 Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	13	Houston	34.8
Average 28.5 Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	14	Phoenix	34.4
Average 28.2 17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	15	Los Angeles	29.6
17 Portland 26.4 18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	16	Chicago	
18 Philadelphia 25.7 19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	Average		28.2
19 Denver 24.0 20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	17	Portland	26.4
20 Baltimore 22.6 21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	18	Philadelphia	25.7
21 Kansas City 22.5 22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	19	Denver	24.0
22 Cleveland 18.9 23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2		Baltimore	22.6
23 Dallas 18.7 24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	21	Kansas City	22.5
24 San Francisco 18.5 25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2		Cleveland	18.9
25 Seattle 17.9 26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2			18.7
26 Detroit 16.3 27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2		San Francisco	18.5
27 Salt Lake City 16.3 28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2		Seattle	17.9
28 Cincinnati 13.8 29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2		Detroit	16.3
29 Boston 13.7 30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	27	Salt Lake City	16.3
30 Pittsburgh 13.0 31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	28	Cincinnati	13.8
31 Minneapolis 11.7 32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	29	Boston	13.7
32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2	30	Pittsburgh	
32 St. Louis 11.3 33 Washington D.C. 10.9 34 Atlanta 8.2		Minneapolis	11.7
34 Atlanta 8.2	32	St. Louis	
		Washington D.C.	10.9
35 Miami 7.2	34	Atlanta	8.2
	35	Miami	7.2

AVERAGE

Source: American Community Survey, U.S. Census Bureau

⁹ Employment data was calculated by the Brookings Institution and includes jobs within a 35 mile buffer of the central business district. According to Brookings, this buffer "captures 95 percent of all jobs located within the 100 largest metro areas. It serves to bound the analysis and helps standardize measures across metro areas of differing geographic size."

¹⁰ Kneebone, Elizabeth, *Job Sprawl Stalls: The Great Recession and Metropolitan Employment Location*, Metropolitan Policy Program at Brookings, 2013.

The Population Dispersal Table provides the change in population living outside the central city. Looking at the change over the past decade helps account for the different sizes of the central cities relative to the size of the MSAs but caution still must be used. Some cities, such as Charlotte, Austin and San Antonio, annexed land over the time period which accounts for some of the growth in the central city population in these regions. Additionally, Detroit and Dallas experienced similar changes in the proportion of population living outside the central city but Detroit's change is due to a large decrease of the central city population (26.3 percent) accompanied by a

small decrease in the MSA population (3.6 percent) while Dallas saw a small increase in the central city population (4.4 percent) and a large increase in the MSA population (27.7 percent).

The proportion of people in St. Louis living outside the central city increased by 13.3 percent over the last 12 years. This is a combination of an 8.6 percent decrease of population in the city of St. Louis as well as a 5.4 percent increase in the population for the MSA and no growth in the land area of the central city.

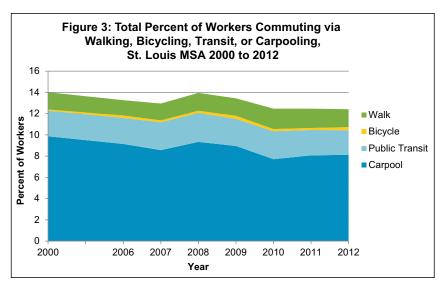
Provide More Transportation Choices

With the growing emphasis on livability and sustainability, it is important to create viable options to automobile use. This suggests an increasing emphasis on public transportation, but also developing more opportunities for walking, bicycling, and telecommuting. All of these will help reduce dependence on foreign oil, improve air and water quality, reduce greenhouse gas emissions, and reduce the ever-growing household cost of transportation. Serious attempts to expand travel options will require closer attention to the interplay of land use and transportation. ~ Regional Transportation Plan 2040

Transportation Choice

The Transportation Choice Table shows the St. Louis region has a relatively small portion of its population that commute via walking, bicycling, public transportation or carpooling; ranking 31st with 12.4 percent of the population using one of these as their primary means for traveling to work. The regions that rank at the top of this chart—New York, San Francisco, Washington D.C., Boston and Chicago are all densely populated and have extensive public transportation systems. In each of these metro areas over 10 percent of commuters use public transit but they also each have a substantial portion of commuters using the other non-auto means of travel.

Some of the regions that rank around the average for the peer regions do not have extensive public transportation systems but have relatively high portions of commuters who carpool to work. In Salt Lake City (12.1 percent), Houston (11.1 percent), San Antonio (11.1 percent), Phoenix (11.0 percent), Austin (11.0 percent) and Atlanta (10.5 percent) over 10 percent of commuters carpool but less than 4 percent of commuters use public transit.



Sources: U.S. Census and American Community Survey, United States Census Bureau

TRANSPORTATION CHOICE

Total percent of workers commuting via walking, bicycling, transit, or carpooling, 2012

1	New York	44.5
2	San Francisco	31.9
3	Washington D.C.	28.4
4	Boston	26.0
5	Chicago	23.8
6	Seattle	23.8
7	Philadelphia	21.8
8	Portland	21.8
9	Los Angeles	19.6
10	Salt Lake City	19.0
11	Baltimore	18.4
12	Pittsburgh	18.2
Avera	age	17.7
13	Denver	17.0
14	Austin	16.2
15	Miami	16.1
16	Minneapolis	16.1
17	San Diego	16.1
18	Milwaukee	15.9
19	Houston	15.4
20	Phoenix	15.3
21	San Antonio	15.1
22	Atlanta	15.0
23	Charlotte	14.2
24	Cleveland	13.2
25	Memphis	13.1
26	Louisville	13.1
27	Dallas	13.0
28	Oklahoma City	12.5
29	Columbus	12.5
30	Indianapolis	12.5
31	St. Louis	12.4
32	Cincinnati	12.3
	Detroit	12.1
33	Delibit	
33 34	Nashville	12.0

AVERAGE

LOWER

Source: American Community Survey, U.S. Census Bureau

Figure 3 shows the portion of workers commuting via these four methods from 2000 to 2012 for the St. Louis MSA. The total percentage decreased from 14.0 percent in 2000 (and 2008) to the current rate of 12.4 percent. From 2000 to 2012, the largest changes were in the percent of people carpooling, which dropped from 9.9 percent to 8.1 percent and the percent of people bicycling, which increased from 0.11 percent to 0.29 percent of commute trips.

Promote Safety and Security

The goal for any transportation system is to move people and goods efficiently, effectively, and safely. Travel safety, as it affects all aspects of the multimodal transportation system, is a continuing priority. There is also the question of system security, or protecting the system against human or naturally caused disasters. Both maximizing safety in everyday usage and securing the system against catastrophic acts are prime considerations for transportation planning and investment decisions.

 \sim Regional Transportation Plan 2040

Fatality Rate

The number of crashes and fatal crashes on St. Louis roadways has declined but the safety of roads remains a top priority and concern. The St. Louis region has a relatively high number of crash fatalities compared to the peer regions. The Fatality Rate tables provide the number of people who died in a car crash. To compare across the regions, the data is provided per population and per vehicle miles traveled. On both measures, the St. Louis region has higher than average fatality rates. The region ranks 8th with 10.1 fatalities per 100,000 population and 13th with 5.7 fatalities per million daily vehicle miles traveled.

Table 4 shows the crash rate per 1 million vehicle miles traveled (VMT) by county for the St. Louis region from 2005 to 2012. In all counties and the region as a whole, the crash rate steadily decreased over the time period with few year-over-year increases.

FATALITY RATE

Crash fatalities per 100,000 population, 2012

1	Oklahoma City	13.5
2	Charlotte	12.5
3	Nashville	12.2
4	San Antonio	11.1
5	Memphis	10.8
6	Louisville	10.5
7	Kansas City	10.4
8	St. Louis	10.1
9	Austin	10.0
10	Pittsburgh	9.7
11	Cincinnati	9.6
12	Atlanta	9.3
13	Houston	9.3
14	Indianapolis	8.9
15	Miami	8.9
16	Dallas	8.7
17	Columbus	8.6
18	Phoenix	8.4
19	Baltimore	8.4
Aver	age	8.1
20	Philadelphia	7.5
21	Milwaukee	7.5
22	Detroit	7.3
23	Salt Lake City	7.0
24	San Diego	6.6
25	Washington D.C.	5.8
26	Denver	5.7
27	Los Angeles	5.7
28	Chicago	5.4
29	New York	5.2
30	Portland	5.1
31	Minneapolis	5.0
32	Cleveland	4.9
33	Seattle	4.8
34	Boston	4.7
35	San Francisco	4.4

Source: National Highway Traffic Safety Administration, Fatality Analysis Reporting System, 2012

FATALITY RATE

Crash fatalities per million daily vehicle miles traveled (VMT) on freeways and arterials, 2012

1	Charlotte	10.0
2	Pittsburgh	8.2
3	Austin	7.8
4	Nashville	7.6
5	San Antonio	7.6
6	Oklahoma City	7.4
7	Memphis	6.7
8	Kansas City	6.3
9	Louisville	6.3
10	Cincinnati	6.3
11	Houston	6.1
12	Columbus	5.9
13	St. Louis	5.7
14	Philadelphia	5.7
15	Phoenix	5.6
16	Indianapolis	5.6
17	Atlanta	5.5
18	Miami	5.4
19	Dallas	5.4
Avera	age	5.3
20	Baltimore	5.1
21	Salt Lake City	4.8
22	Chicago	4.5
23	Milwaukee	4.4
24	New York	4.4
25	Portland	4.0
26	Detroit	3.9
27	Washington D.C.	3.7
28	San Diego	3.5
29	Denver	3.5
30	Cleveland	3.3
31	Minneapolis	3.1
32	Los Angeles	2.9
33	Boston	2.8
34	Seattle	2.8
35	San Francisco	2.4

AVERAGE

LOWER

Source: National Highway Traffic Safety Administration, 2012; Urban Mobility Report, 2012

Note: VMT data is for 2011

Table 4: Crashes per One Million Vehicle Miles Traveled (VMT) by County, St. Louis Region, 2005 to 2012

County	2005	2006	2007	2008	2009	2010	2011	2012
Madison	2.9	2.5	2.6	2.6	1.9	2.0	1.9	1.8
Monroe	2.3	2.2	2.0	2.0	1.6	1.7	1.8	1.5
St. Clair	3.0	3.0	2.9	2.7	2.1	2.2	2.2	2.0
Franklin	2.9	2.8	2.8	2.7	2.7	2.4	2.1	1.6
Jefferson	3.7	3.5	3.3	3.2	3.2	2.5	2.5	2.1
St. Charles	4.2	3.9	3.9	3.5	3.4	2.5	2.6	2.4
St. Louis County	4.3	4.1	4.0	3.8	3.8	2.9	2.8	2.9
City of St. Louis	14.7	13.3	12.6	12.5	12.7	5.9	5.7	7.9
St. Louis Region	4.4	4.1	4.0	3.9	3.7	2.9	2.8	2.8

Source: IDOT, MoDOT

The transportation needs of the regional economy are as diverse as the economy itself. One sector might require the reliable movement of heavy goods into and out of the area; another sector might rely on public transportation for access to labor; and another might necessitate good airline connections to other major cities. A good multimodal transportation system, whose component parts work together as seamlessly as possible, is necessary to sustain and grow the region's economy. It is essential to understand the transportation needs of the various economic sectors throughout the region and target investments to meet those needs. Regional Transportation Plan 2040

Congestion

One way of measuring if the transportation system supports a vital economy is congestion levels. The amount of congestion in a region can indicate the reliability of the system as well as the amount of additional costs commuters and businesses incur due to congestion. Relative to its peers, the St. Louis region has moderate to low levels of congestion, resulting in a transportation system that is considered reliable and presents users with relatively low additional costs.

In 2011, an estimated \$121 billion in extra time and fuel was spent in the United States due to congestion in the major urban areas. This includes 5.5 billion hours of extra time and 2.9 billion gallons of wasted fuel. Truck operations account for 22 percent (\$27 billion) of these delay costs. It is estimated that costs incurred due to congestion will grow 64 percent to \$199 billion by 2020.¹¹ On average for the 35 peer regions, congestion costs were \$923 per auto commuter in 2011. St. Louis ranks 31st on this measure with one of the lowest costs per commuter at \$686. Congestion is highest in the most populated regions but the growth in congestion has occurred in regions of all sizes.¹²

Congestion and the associated costs fluctuate with the strength of the economy. When the unemployment rate is high there are less people commuting to work and therefore less congestion. In this regard, higher congestion levels are an indicator of a strong economy but congestion levels can also be lowered through improvements to the system (operations treatments) and increased levels of public transportation service.¹³

Table 5: Annual Effects of Congestion Solutions, St. Louis Region and Average for 35 Peer Regions, 2011

	St. Louis Region	Average for 35 Peer Regions
Annual Effects of Operations Treatments		
Delay Reduction (1,000 hours)	2,083	8,186
Delay Reduction per Auto Commuter (hours)	2.0	3.5
Additional Wasted Fuel (1,000 gallons)	906	3,753
Congestion Cost Savings (\$ million)	46.9	177.0
Annual Effects of Public Transportation Service		
Delay Reduction (1,000 hours)	2,958	22,856
Delay Reduction per Auto Commuter (hours)	2.0	6.5
Additional Wasted Fuel (1,000 gallons)	1,286	10,664
Congestion Cost Savings (\$ million)	66.5	497.1

Source: Urban Mobility Report, 2012, Texas Transportation Institute

ANNUAL CONGESTION COSTS

Dollars per auto commuter, 2011

1	Washington DC	1,398
2	Los Angeles	1,300
3	New York	1,281
4	San Francisco	1,266
5	Chicago	1,153
6	Boston	1,147
7	Atlanta	1,120
8	Houston	1,090
9	Seattle	1,050
10	Nashville	1,034
11	Philadelphia	1,018
12	Miami	993
13	Dallas	957
14	Denver	937
15	Portland	937
16	Austin	930
17	Indianapolis	930
Aver		923
18	Baltimore	908
19	Charlotte	898
20	Detroit	859
21	Columbus	847
22	Phoenix	837
23	Memphis	833
24	Pittsburgh	826
25	Cincinnati	814
26	Oklahoma City	803
27	San Antonio	787
28	Louisville	776
29	San Diego	774
30	Minneapolis	695
31	St. Louis	686
32	Cleveland	642
	Salt Lake City	620
33		
33 34	Milwaukee	585

Source: Urban Mobility Report, 2012, Texas Transportation Institute; U.S. Census 2010

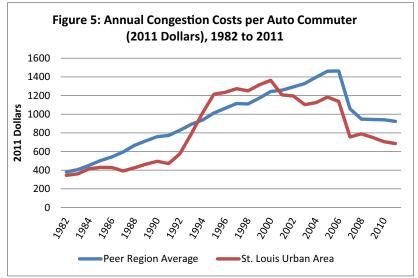
- 11 *Urban Mobility Report 2012*, Texas A&M Transportation Institute, December 2012.
- 12 *Urban Mobility Report 2012*, Texas A&M Transportation Institute, December 2012.
- 13 Notably, some system improvements such as traffic calming measures can increase congestion while meeting the needs of a community. These are not captured in the *Urban Mobility Report* data.

AVERAGE

LOWER

According to the Texas A&M Transportation Institute, both types of congestion solutions (operations treatments and transportation service) have considerable effects on lowering congestion. In 2011, public transportation decreased congestion costs by an estimated \$66.5 million and operations treatments decreased costs by an estimated \$46.9 million in the St. Louis region. Table 5 (Page 13) provides a breakdown of these cost savings for the St. Louis region and the average for the 35 peer regions. Public transportation and operations treatments each save every auto commuter in the St. Louis region an estimated two hours annually. On average, these solutions save commuters in the peer regions even more time and money than is realized in St. Louis. The higher savings are due in part to higher levels of congestion in the peer regions, which provides greater opportunity for addressing congestion (and more room for time and cost savings).

Figure 5 shows the change in annual congestion costs per commuter for the St. Louis urban area and the average for the 35 peer regions' urban areas from 1982 to 2011. Congestion costs have increased substantially over the 30 period. In the St. Louis region costs rose from \$344 per commuter in 1982 (in 2011 dollars) to \$686 in 2011; a 99 percent increase. Comparatively, the average cost per commuter for the peer regions rose 142 percent from \$381 to \$923.



Addressing Congestion through Operations Treatments

The Urban Mobility Report tracks the effects of the following five treatments on congestion:

<u>Ramp Meters:</u> modified traffic signals on freeway entrance ramps

<u>Traffic Signal Coordination:</u> coordinate timing of nearby signals

Incident Management Programs: coordinated and planned approach for restoring freeway capacity as quickly as possible after an incident

<u>Arterial Street Access Management:</u> includes consolidating driveways, median turn lanes, acceleration/deceleration lanes

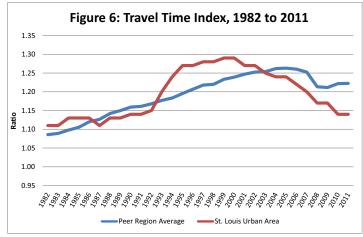
<u>HOV Lanes:</u> roadways, or lanes, designated for high occupancy vehicles, such as buses, vanpools and carpools

Source: Urban Mobility Report, 2012, Texas Transportation Institute

System Reliability

The Travel Time Index (TTI) is used to measure system reliability. The TTI is the ratio of travel time in the peak period to the travel time in free-flow conditions. In the St. Louis region, the TTI in 2011 was 1.14. This means that a trip takes an estimated additional 14 percent of time during congested times as it does during non-congested (free flow) times. For example, a trip that takes 20 minutes during times when traffic is flowing freely, would take 22.8 minutes during the peak travel time, when the road is congested.

The St. Louis region ranks well on this measure, ranking 34th in 2011 with one of the lowest ratios of peak to free-flow travel time.



Source: Urban Mobility Report, 2012, Texas Transportation Institute

Over the past 20 years the region's TTI increased steadily until about the mid-1990s when it leveled off and hit its peak of 1.29 in 1999 before starting a steady decline that has continued into 2011. From 1982 to 2011, the region's score on the index increased by 2.7 percent, compared to the peer region average increase of 12.7 percent (See Figure 6, Page 14). For St. Louis, the increase on the index was from 1.11 in 1982 to 1.14 in 2011. A 20 minute trip in congestion took a half of a minute longer in 2011 than it would have in 1982. On average for the peer regions, a 20 minute trip took 2.6 minutes longer in 2011 than it took in 1982.

TRAVEL TIME INDEX

Ratio of peak period travel time to free-flow travel time, 2011

1	Los Angeles	1.37
2	New York	1.33
3	Austin	1.32
4	Washington DC	1.32
5	Boston	1.28
6	Portland	1.28
7	Denver	1.27
8	Dallas	1.26
9	Houston	1.26
10	Philadelphia	1.26
11	Seattle	1.26
12	Chicago	1.25
13	Miami	1.25
14	Atlanta	1.24
15	Pittsburgh	1.24
16	Baltimore	1.23
17	Nashville	1.23
Aver	age	1.22
18	San Francisco	1.22
19	Minneapolis	1.21
20	Charlotte	1.20
21	Cincinnati	1.20
22	San Antonio	1.19
23	Columbus	1.18
24	Detroit	1.18
25	Louisville	1.18
26	Memphis	1.18
27	Phoenix	1.18
28	San Diego	1.18
29	Indianapolis	1.17
30	Cleveland	1.16
31	Milwaukee	1.15
32	Oklahoma City	1.15
33	Salt Lake City	1.14
34	St. Louis	1.14
35	Kansas City	1.13

Source: Urban Mobility Report, 2012, Texas Transportation Institute; U.S. Census 2010

CHANGE IN TRAVEL TIME INDEX

Percent change, 1982 to 2011

1	Austin	21.1	
2	Washington DC	20.0	
3	Portland	19.6	
4	Dallas	18.9	
5	New York	18.8	
6	Denver	17.6	A
7	Seattle	16.7	
8	Baltimore	16.0	
9	Chicago	15.7	
10	San Antonio	15.5	
11	Minneapolis	15.2	
12	Atlanta	14.8	
13	Columbus	14.6	
14	Boston	14.3	Ħ.
15	Cincinnati	14.3	I G
16	Los Angeles	14.2	H
17	Miami	13.6	E R
18	Philadelphia	13.5	K
19	San Diego	13.5	
Avera	age	12.7	AVERAGE
20	Charlotte	12.1	L
21	Oklahoma City	11.7	0
22	San Francisco	10.9	M
23	Cleveland	10.5	E R
24	Indianapolis	10.4	
25	Memphis	10.3	
26	Milwaukee	9.5	
27	Phoenix	9.3	
28	Nashville	7.9	
29	Houston	7.7	
30	Kansas City	7.6	
31	Salt Lake City	7.5	
32	Detroit	7.3	
33	Louisville	6.3	▼
34	Pittsburgh	3.3	
35	St. Louis	2.7	

Source: Urban Mobility Report, 2012, Texas Transportation Institute: U.S. Census 2010

Support Quality Job Development

In order to grow the metropolitan economy, economic development strategies need to support the growth of wealth producing jobs. Good paying jobs allow residents to save and to return money to the economy through purchases of goods and services, and the payment of taxes benefit the whole economy many times over. Transportation expenditures that serve good quality employment opportunities are a sound investment.

~ Regional Transportation Plan 2040

Access to Jobs

The majority of jobs in the St. Louis region are accessible within a reasonable amount of travel time by automobile but far less accessible for people who live in the outer portions of the region and for those who do not have access to a vehicle.

While auto commuters in the city of St. Louis and St. Louis County can reach over 80 percent of jobs in the region within 45 minutes, far fewer jobs are accessible in this

commute time for those who live in the suburban and rural parts of the region. Additionally, persons in these outlying areas have little access to transit.

Average commute times are used to compare access to jobs for the peer regions. St. Louis has a relatively low average commute time. St. Louis ranks 21st with an average commute time of 25.4 minutes. This is just below the average commute time for the peers of 26.6 minutes,

only 3.4 minutes longer than the average commute in Oklahoma City (ranked 35th) and almost 10 minutes shorter than the average commute time for residents in New York (ranked 1st).

The Job Access by Transit Table indicates the percent of a region's jobs that the typical resident who lives in a community (block group) with transit coverage can reach via transit within a 90 minute commute time. The St. Louis region's transit system ranks poorly on this indicator, at 26th with only 24.1 percent of jobs accessible within a 90 minute commute. Many people likely consider 90 minutes to be a lengthy commute. For those living in a community served by transit, less than 10 percent of jobs (8.3 percent) in the St. Louis MSA are accessible within 60 minutes by transit and only 3.7 percent within 45 minutes.14

AVERAGE COMMUTE TIME

In minutes, 2012

1	New York	35.2
2	Washington D.C.	34.0
3	Chicago	30.6
4	San Francisco	30.4
5	Baltimore	30.0
6	Atlanta	30.0
7	Boston	29.5
8	Los Angeles	28.9
9	Houston	28.6
10	Philadelphia	28.6
11	Seattle	28.5
12	Miami	28.0
13	Dallas	27.1
14	Denver	26.9
Avera	age	26.6
15	Pittsburgh	26.5
16	Nashville	26.3
17	Detroit	26.2
18	Phoenix	25.8
19	Charlotte	25.6
20	Austin	25.5
21	St. Louis	25.4
22	Indianapolis	25.1
23	Portland	25.1
24	San Antonio	24.9
25	Minneapolis	24.9
26	San Diego	24.6
27	Cleveland	24.6
28	Cincinnati	24.2
29	Louisville	23.7
30	Memphis	23.5
31	Salt Lake City	23.2
32	Milwaukee	23.1
33	Columbus	22.8
34	Kansas City	22.7
35	Oklahoma City	22.0

Source: American Community Survey, U.S. Census Bureau

JOB ACCESS BY TRANSIT

Share of metropolitan jobs the typical working-age resident can reach via transit within 90 minutes, 2010

1	Salt Lake City	58.9
2	Milwaukee	48.6
3	Denver	47.5
4	Portland	39.9
5	Austin	39.0
6	San Antonio	37.0
7	Washington D.C.	36.6
8	New York	36.6
9	San Francisco	34.8
10	Columbus	34.1
11	Seattle	33.4
12	Indianapolis	33.1
13	Louisville	32.7
Avera	age	30.6
14	Boston	30.2
15	Baltimore	30.2
16	Minneapolis	29.7
17	Charlotte	29.7
18	Houston	29.6
19	Cleveland	29.5
20	San Diego	29.1
21	Cincinnati	27.8
22	Phoenix	27.4
23	Nashville	27.4
24	Memphis	26.2
25	Los Angeles	25.6
26	St. Louis	24.1
27	Philadelphia	24.0
28	Chicago	23.9
29	Pittsburgh	23.0
30	Oklahoma City	22.7
31	Detroit	21.9
32	Atlanta	21.7
33	Dallas	19.0
34	Kansas City	18.3
35	Miami	16.2

Source: Metropolitan Policy Program at Brookings, 2011

AVERAGE

LOWER

¹⁴ Tomer, Adie, Elizabeth Kneebone, Robert Puentes and Alan Berube, Missed Opportunity: Transit and Jobs in Metropolitan America, Metropolitan Policy Program at Brookings, May 2011.

Strengthen Intermodal Connections

The connecting points between transportation modes are critical to the efficient flow of both people and goods. From a people movement perspective, intermodal connections are the points at which public transportation interacts with other modes—walking, bicycling, automobiles, aviation, and even other transit modes—to allow the easy transfer of people from one mode to another. From a freight perspective, these connections occur at points where shipments can be transferred between modes, i.e., truck, barge, pipeline, train, and airplane. Increasing the opportunities for these types of connections enhances the effectiveness of the overall transportation system, providing improvements in both mobility and economic efficiency.

~ Regional Transportation Plan 2040

Intermodal Connectivity

The Transportation Choice (See Page 11), Transportation Expenses (See Page 8), and transit tables (See Pages 5-6) indicate how well regions are providing residents with the ability to choose travel options that rely on multiple modes. The St. Louis region's below average ranking on these measures indicates that residents do not have as many options to use nonauto modes of transportation as some of the peer regions. Commuting via public transit, walking or cycling usually relies on quality connections between multiple modes. The gap between the percent of residents with access to transit (56 percent) and those who use it (2.3 percent) could in part be due to a lack of connections between transit, bike and walk facilities.

Freiaht

Freight volumes are expected to increase by 60 percent over the next 25 years in the United States. 15 EWG, MoDOT, IDOT and members of the freight community in St. Louis recently completed an evaluation of the regional freight system and are determining how to build on the region's assets in a way that will capture some of the economic activity generated by the growth in the freight industry. Transportation infrastructure plays a key role in facilitating the movement of goods around and through the region via highways, waterways, air and railroads.

The St. Louis Regional Freight Study documents key regional, national and global trends that will influence freight movement and analyzes the ability of the region's infrastructure to support economic opportunity. It documents areas where congestion is a problem, identifies specific locations where one or more modes could align better and focuses attention on 23 specific areas in the region that are key to the freight industry in St. Louis. These freight emphasis areas support about 230,000 jobs, sustain about one-quarter of the regional economic activity (\$55.5) billion) and utilize 160 million square feet of industrial and distribution space.

The Freight Tonnage Table indicates the key role the St. Louis region already has in the movement of freight throughout the country. St. Louis ranks 9th among the peer regions with an estimated 316 million tons of freight carried inbound, outbound and within the region in 2011.

The region has many assets that help facilitate the movement of goods that need to be considered as part of regional transportation planning. The St. Louis Regional Freight Study states, "While the St. Louis Region's past and present has been focused on crossing the Mississippi River, its future may be

FREIGHT TONNAGE Tons in thousands, 2011

8 Detroit 346,700 9 St. Louis 315,934 10 Atlanta 314,645 11 Minneapolis 304,299 12 Seattle 297,763 Average 277,566 13 Miami 231,904 14 Phoenix 221,959	Н
3 New York 762,768 4 Chicago 731,275 5 San Francisco 435,636 6 Dallas 409,069 7 Philadelphia 379,977 8 Detroit 346,700 9 St. Louis 315,934 10 Atlanta 314,645 11 Minneapolis 304,299 12 Seattle 297,763 Average 277,566 13 Miami 231,904 14 Phoenix 221,959 15 Boston 213,552 16 Denver 196,778 17 Indianapolis 184,508 18 Washington 178,330 19 Portland 177,960	н
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22 Baltimore 164,394	
23 Kansas City 159,199	
24 San Antonio 156,883	
25 Columbus 149,837	
26 Nashville 149,447	٧
27 Salt Lake City 147,020	
28 Cincinnati 144,673	
29 Austin 113,451	
30 Charlotte 112,802	
31 Milwaukee 101,345	
32 Oklahoma 97,832	
33 Memphis 91,042	
34 San Diego 90,828	
35 Louisville 87,677	

Source: Federal Highway Administration, Freight Analysis Framework

¹⁵ AECOM Technical Services, St. Louis Regional Freight Study - Final Report, June 2013, accessed at http://www.ewgateway.org/freight/freight.htm

about intermodal and freight rail capacity improvement, and how they align with the river."¹⁶ The study identifies the following as some of the assets and opportunities upon which the region can build this intermodal network:

- Centrally located with connections to major interstates
- Well-maintained roads
- Relatively inexpensive fuel prices
- New interstate openings have increased the efficiency of the system
- Modest congestion with nominal delays during offpeak hours
- New Mississippi River Bridge and improvements to the Poplar Street Bridge
- Strong east-west connections but weak north-south connections
- Six Class I railroads connect in St. Louis
- Development of high-speed rail between Chicago and St. Louis

Support Air Quality and Environmental Assets

Transportation is tightly interwoven within the entire social, economic, and natural fabric of the region. It is, therefore, only one part of a broader integrated system, with all parts affecting all other parts. Thoughtfully analyzing, planning, and investing in ways that recognize the linkages between those parts is a necessary step toward creating a healthier and more sustainable region. ~ Regional Transportation Plan 2040

Federal Legislation

One of the seven national performance goals for the federal transportation legislation, MAP-21, enacted in 2012, is "environmental sustainability" but federal transportation legislation has long recognized the role that transportation decisions have in protecting the environmental assets of communities. This recognition has been most prominently incorporated into transportation planning through the Congestion Mitigation and Air Quality Improvement (CMAQ) Program, which has provided \$30 billion for 29,000 transportation-environmental projects since 1991. More recently, the Partnership for Sustainable Communities was created as an interagency partnership between the federal HUD, DOT and EPA departments. St. Louis received one of the grants through the partnership to create a regional plan for sustainable development. The region's plan, OneSTL, brings together partners from throughout the region to better connect transportation, environment and housing planning and development.

Transportation & Air Quality

Transportation accounts for approximately 27 percent of all greenhouse gas (GHG) emissions in the United States, making it the second largest contributing sector.¹⁷ The St. Louis region ranks above average with 8.5 tons of transportation related GHGs emitted per household in 2007.

TRANSPORTATION GHG EMISSIONS

Tons per household, 2007

1	Nashville	9.4
2	Atlanta	9.4
3	Charlotte	9.2
4	Kansas City	9.0
5	Austin	8.9
6	Cincinnati	8.9
7	Indianapolis	8.8
8	Columbus	8.7
9	Minneapolis	8.7
10	Oklahoma City	8.6
11	Dallas	8.6
12	Salt Lake City	8.6
13	Memphis	8.6
14	St. Louis	8.5
15	Houston	8.5
16	Louisville	8.4
17	Washington, DC	8.4
18	San Diego	8.4
19	San Antonio	8.4
Avera	ige	8.3
20	Phoenix	8.3
21	Baltimore	8.3
22	Pittsburgh	8.2
23	Detroit	8.1
24	Portland	8.1
25	Boston	8.1
26	Milwaukee	8.0
27	Seattle	8.0
28	Cleveland	8.0
29	Philadelphia	7.7
30	Chicago	7.7
31	Denver	7.5
32	Miami	7.5
33	San Francisco	7.4
34	Los Angeles	7.2
35	New York	6.5

Source: Center for Neighborhood Technology

TRAVEL DENSITY

Daily vehicle miles traveled in urban areas per capita, 2011

Oklahoma City	24.1	
Houston	23.1	
Indianapolis	23.1	
Nashville	23.0	
Kansas City	21.4	
Charlotte	21.4	
St. Louis	21.3	
Atlanta	21.3	
Columbus	21.2	
San Antonio	20.8	
Detroit	20.6	
Dallas	20.3	
Memphis	20.2	Ħ.
San Francisco	20.1	I G
Louisville	20.0	H
Minneapolis	19.7	E
Washington DC	19.5	R
Los Angeles	19.3	
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Denver		M
		E R
Cleveland		
Boston	17.9	
Baltimore	17.9	
Milwaukee	17.8	
Phoenix	17.6	
Austin	17.6	
Miami	17.2	
Salt Lake City	16.4	
Pittsburgh	15.7	
Portland	15.1	▼
Philadelphia	14.9	
Chicago	13.3	
	12.1	
	Nashville Kansas City Charlotte St. Louis Atlanta Columbus San Antonio Detroit Dallas Memphis San Francisco Louisville Minneapolis Washington DC Los Angeles age San Diego Cincinnati Denver Seattle Cleveland Boston Baltimore Milwaukee Phoenix Austin Miami Salt Lake City Pittsburgh Portland Philadelphia	Nashville 23.0 Kansas City 21.4 Charlotte 21.4 St. Louis 21.3 Atlanta 21.3 Columbus 21.2 San Antonio 20.8 Detroit 20.6 Dallas 20.3 Memphis 20.2 San Francisco 20.1 Louisville 20.0 Minneapolis 19.7 Washington DC 19.5 Los Angeles 19.3 age 19.1 San Diego 19.1 Cincinnati 19.0 Denver 18.6 Seattle 18.6 Cleveland 18.1 Boston 17.9 Milwaukee 17.8 Phoenix 17.6 Miami 17.2 Salt Lake City 16.4 Pittsburgh 15.7 Portland 15.1 Philadelphia 14.9

Source: Urban Mobility Report, 2012, Texas Transportation Institute

16 AECOM Technical Services, St. Louis Regional Freight Study – Final Report, June 2013, accessed at http://www.ewgateway.org/freight/freight.htm 17 Fast Facts: U.S. Transportation Sector Greenhouse Gas Emissions 1990 – 2010, Office of Transportation and Air Quality, EPA, 2012 Traffic volume is one of the key determinants of GHG emissions from transportation.¹⁸ The Travel Density Table provides the daily vehicle miles traveled (VMT) in urban areas per capita for the peer regions. Again, the St. Louis region ranks above average. The region has one of the highest rates of miles traveled by vehicle per person among the peer regions.

Figure 7 shows the change in average daily VMT per capita for the St. Louis region and the United States on all roads. ¹⁹ Over the last thirty years, the VMT per capita increased more in the St. Louis region than in the U.S. but VMT in the region also declined more in the last decade. In St. Louis, VMT per capita was at its highest in 1998, at 33.6 miles per day and declined 18.6 percent to 27.4 miles per day in 2011. VMT per capita in the U.S. reached its peak in 2005, at 27.5 miles per day and then declined 5.3 percent to 26.1 miles per day in 2011.

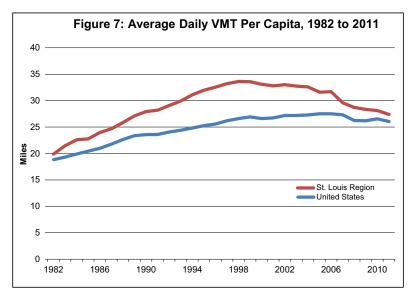
The Air Quality Table provides the number of days the air quality index exceeded 100 for ozone per year, on average for the three-year period of 2011 to 2013. These are days that are unhealthy for sensitive groups or worse (often referred to as orange, red, purple or maroon days). The St. Louis MSA has the fourth highest number of days with unhealthy air quality.

AIR QUALITY

Number of days air quality index exceeded 100 for ozone, 2011-2013 average

1	Los Angeles	72.3
2	Dallas	35.3
3	Houston	29.0
4	St. Louis	26.3
5	Denver	21.3
6	Atlanta	21.3
7	Phoenix	21.0
8	New York	19.3
9	Cincinnati	19.0
10	Kansas City	18.0
11	Oklahoma City	17.0
12	Baltimore	15.7
13	Washington D.C.	15.7
14	Chicago	15.3
15	Louisville	15.0
Avera	age	14.6
16	Philadelphia	14.3
17	Memphis	14.0
18	Cleveland	13.7
19	Pittsburgh	13.3
20	Nashville	11.7
21	Detroit	11.3
22	Charlotte	9.7
23	Indianapolis	9.7
24	San Antonio	9.3
25	Columbus	9.0
26	Milwaukee	9.0
27	San Diego	9.0
28	Salt Lake City	7.3
29	Austin	4.0
30	Boston	3.7
31	San Francisco	2.7
32	Minneapolis	1.7
33	Miami	1.3
34	Seattle	0.7
35	Portland	0.3

Source: U.S. Environmental Protection Agency



Sources: HPMS, Federal Highway Administration; Traffic Volume Trends, Federal Highway Administration; and Residents Population Estimates, U. S. Census Bureau

ASTHMA RISK

Index of 13 indicators of risk, 2013

1	Memphis	93.5
2	Philadelphia	92.1
3	Oklahoma City	90.6
4	Detroit	88.1
5	Atlanta	86.6
6	Pittsburgh	85.1
7	Chicago	84.4
8	Cleveland	83.8
9	Louisville	83.3
10	Milwaukee	82.1
11	Cincinnati	78.8
12	Nashville	78.2
13	Indianapolis	77.3
14	Washington D.C.	75.2
Aver	age	74.0
15	Los Angeles	73.8
16	Dallas	73.2
17	New York	73.2
18	Salt Lake City	72.9
19	Columbus	72.3
20	St. Louis	72.1
21	Phoenix	71.9
22	Kansas City	69.2
23	Miami	69.0
24	San Antonio	68.9
25	Boston	67.7
26	San Diego	67.3
27	Houston	67.3
28	Baltimore	65.6
29	Minneapolis	65.4
30	Denver	64.4
31	Charlotte	63.6
32	Austin	61.5
33	Portland	60.0
34	Seattle	57.6
35	San Francisco	52.9

AVERAGE

L O W

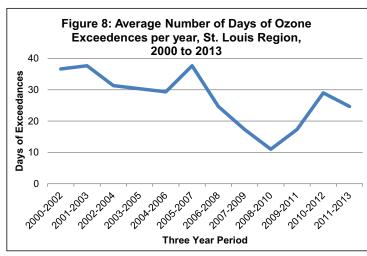
Source: Asthma & Allergy Foundation of America

¹⁸ See Where We Stand Update: Transportation Emissions, May 2013 for more details on this topic http://www.ewgateway.org/pdffiles/newsletters/WWS/WWS6EdNo5.pdf

¹⁹ The Travel Density Table provides VMT on freeways and arterials while Figure 7 provides VMT on all roads.

Figure 8 provides the air quality for the St. Louis eight-county region from 2000 to 2013. Three- year averages are used due to the extreme variability in the number of unhealthy days on an annual basis. Air quality in the region worsened from an average of 17.3 days of unhealthy air per year for 2007 to 2009 to an average of 24.7 days annually for 2011 to 2013. Looking over a longer time period, the region's air quality improved with 12 fewer days per year of unhealthy air in the 2011 to 2013 time period than in 2000 to 2002.

The effects of poor air quality can be seen in the risk of asthma. The Asthma & Allergy Foundation of America scores MSAs on a range of factors including pollen count, number of ozone days and prevalence of asthma. The results of their scoring are in the Asthma Risk Table. The St. Louis region ranks below average, at 20th with a score of 72.1. This is a substantial improvement over the region's ranking of 1st among the peer regions and score of 100.0 in 2009. Over the last five years, the region's score on the index improved in part due to improved ratings for air quality and smoke-free legislation.



Sources: Air Quality Index, United States Environmental Protection Agency and East-West Gateway Council of Governments

Conclusion

As part of the planning process for the next long range transportation plan, East-West Gateway will ask residents, business owners and local leaders what the priorities should be for the St. Louis region's transportation funding. This Where We Stand Update provides data on issues that can help guide these discussions and decisions. While some information is about roads and pavement conditions, the breadth of issues covered in this report touches on the number of things that need to be considered in making transportation planning decisions as well as the impact these decisions have on the region. The transportation system is an important component to the daily lives of individuals, the economic vitality of the region and the quality of the environment. The St. Louis eight-county bi-state region has the opportunity and the challenge to invest these public dollars wisely in a way that adheres to what the people of St. Louis value.



Creating Solutions Across Jurisdictional Boundaries

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Where We Stand tracks the health of the St. Louis region compared to 34 peer MSAs.¹ The peer regions are our domestic competition and provide a consistent yardstick to gauge "Where We Stand."

This update introduces new data on three measures of social mobility and discusses some of the community characteristics that are correlated with upward mobility.

6th Edition, Update 7

March 2014

SOCIAL MOBILITY

The term "social mobility" refers to the idea that individuals can achieve a high standard of living, regardless of the circumstances into which they were born. The notion that even a poor child can work hard and get rich (or at least reach the middle class) has long had a hold on the American imagination, although numerous studies have documented that the United States has a far lower level of social mobility than most of the other wealthy nations around the world.

Data released by the Equality of Opportunity Project at Harvard University shows that there is a geography of social mobility—the odds of rising from the bottom of

the economic ladder to somewhere near the top are influenced by where one grows up.

This Where We Stand Update finds that the St. Louis region has low social mobility compared to its peers. Children who grew up in St. Louis are less likely than their peers in other large metropolitan regions to achieve higher levels of income as adults. Research finds similar characteristics and policies among communities that tend to have higher levels of mobility. The St. Louis region could look to these regions for ideas on how to create more opportunity for upward economic mobility.

Measuring Mobility²

This update relies on data compiled by the Equality of Opportunity Project. A team led by Harvard Economist Raj Chetty obtained permission to examine individual tax returns filed over a 30 year period. The data was compiled in the following manner in order to examine the economic mobility of people in the United States.

- The team selected individuals who were born in 1980 or 1981.
- Income tax returns of the parents of those children were then analyzed for 1996, the year the children were 16. Based on the 1996 returns, the children were ranked based on their parents' income (Parent Family Income) and divided into 100 equal sized groups (percentiles). For example, a child whose parents' income falls into the 25th group among the 100 equal size groups is at the 25th percentile. Such a family would be in the bottom quarter of the income distribution.
- Next, the children's tax returns for the year 2010 were obtained (when the children are about 30 years old),
 and the children were ranked according to income (Child Family Income) in the same way—into 100 groups,
 or percentiles. This allowed the researchers to compare the earnings of 30 year olds with the earnings of their
 parents about 15 years earlier.
- The income tax information was geocoded to a level that the researchers call the "commuting zone." Commuting zones do not correspond precisely to Metropolitan Statistical Areas (MSA), although the larger zones approximate the MSAs in which they are located. The child's residence in 1996 was used as the unit of analysis, under the assumption that in most cases, residence at age 16 represents the place in which a child was raised. This allows an analysis of how the place in which one grows up affects economic outcomes later in life.

¹ MSAs (Metropolitan Statistical Areas) are geographic entities delineated by the Office of Management and Budget (OMB). MSAs are areas with "at least one urbanized area of 50,000 or more population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties." 2 The Equality of Opportunity research team released two sets of data. This update uses the data from Version 1.0 (released July 22, 2013), which reports statistics using the 1980-81 birth cohorts. Version 2.0 (released January 17, 2014) reports statistics using the 1980-82 birth cohorts. The project's data and related reports can be found at http://www.equality-of-opportunity.org/

Where We Stand

The Harvard researchers generated dozens of metrics to assess intergenerational mobility. This update presents the three primary metrics.

Absolute Mobility: This measure is an estimate of the expected earnings of a young adult in 2010, relative to other young adults of the same age, whose parents' income was at the 25th percentile in 1996. Thus, the measure shows what children who were born in 1980 or 1981 and grew up in households that earned about \$30,000 (the 25th percentile) could be expected to earn as young adults (in 2010, at age 30).

Map 1 shows levels of absolute social mobility by commuting zone. The lowest rates of social mobility are concentrated in the south. There are also several Midwestern cities, including St. Louis, Chicago, Milwaukee, Indianapolis, Columbus, Cincinnati and Cleveland that land in the lowest tier for social mobility. Native American reservations in Arizona and South Dakota are also conspicuously low on social mobility. The areas with the highest social mobility are in the Great Plains and the Rocky Mountains.

The Absolute Mobility Table shows how the 35 peer commuting zones compare on this measure of social mobility. Zones closer to the top of this chart enjoy higher levels of social mobility. The three most mobile zones were Salt Lake City, Pittsburgh, and Boston. The areas with the lowest levels of social mobility were all in the South: Memphis, Charlotte and Atlanta.

By this measure, St. Louis ranks 25th out of the 35 peer commuting zones. St. Louis ranks fairly close to other rustbelt cities such as Cleveland and Milwaukee.

In St. Louis, a child raised at the 25th percentile would be expected to be at about the 38th percentile at age 30. This means that on average, a child that was born in St. Louis in 1980 and whose parents' income was at the 25th percentile in 1996, could be expected to be at the 38th percentile among their peers at age 30.

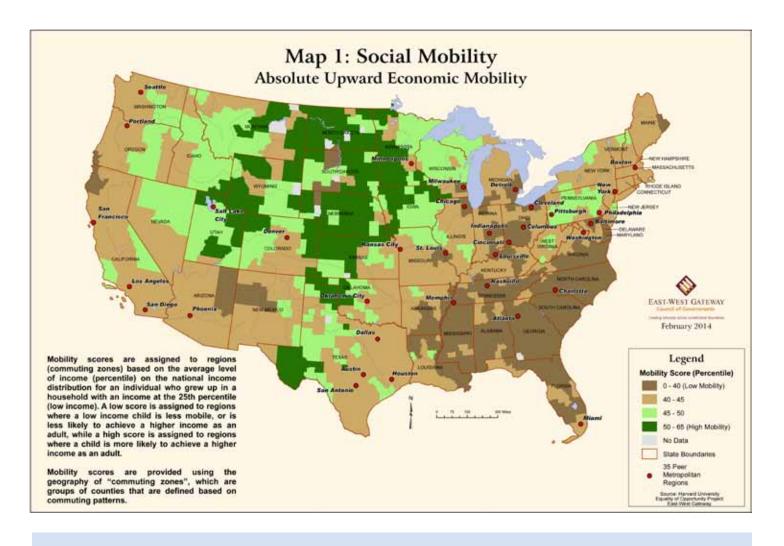
Comparatively, a child that grew up in Salt Lake City in a family whose income fell at the same 25th percentile could expect to rank about eight points higher on the income distribution than a child that grew up at the same income level in St. Louis (46.4 in Salt Lake City compared to 38.6 in St. Louis).

ABSOLUTE MOBILITY

Expected Child Income
Percentile for Parents with Low
Incomes

1	Salt Lake City	46.4	
2	Pittsburgh	45.0	
3	Boston	44.8	
4	Minneapolis	44.5	
5	San Francisco	44.5	
6	San Diego	44.3	A
7	New York	44.2	
8	Los Angeles	43.6	
9	Seattle	43.5	
10	Washington DC	43.5	
11	Houston	42.4	
12	Miami	42.2	
13	Denver	42.0	Ħ.
14	Portland	41.9	I G
15	Oklahoma City	41.9	Ĥ
16	Philadelphia	41.6	E R
17	San Antonio	41.1	K
18	Phoenix	41.1	
Aver		40.8	AVERAGE
19	Austin	40.4	L
20	Dallas	40.4	0
21	Kansas City	40.2	Ā
22	Chicago	39.6	E R
23	Milwaukee	39.6	
0.4			
24	Baltimore	39.2	
25	St. Louis	39.2 38.6	
25 26	St. Louis Cleveland	39.2 38.6 38.3	
25 26 27	St. Louis Cleveland Louisville	39.2 38.6 38.3 38.2	
25 26 27 28	St. Louis Cleveland Louisville Nashville	39.2 38.6 38.3 38.2 38.1	
25 26 27 28 29	St. Louis Cleveland Louisville Nashville Cincinnati	39.2 38.6 38.3 38.2 38.1 38.0	ļ
25 26 27 28 29 30	St. Louis Cleveland Louisville Nashville Cincinnati Columbus	39.2 38.6 38.3 38.2 38.1 38.0 37.7	ļ
25 26 27 28 29 30 31	St. Louis Cleveland Louisville Nashville Cincinnati Columbus Detroit	39.2 38.6 38.3 38.2 38.1 38.0 37.7 37.3	ļ
25 26 27 28 29 30 31 32	St. Louis Cleveland Louisville Nashville Cincinnati Columbus Detroit Indianapolis	39.2 38.6 38.3 38.2 38.1 38.0 37.7 37.3 37.3	V
25 26 27 28 29 30 31 32 33	St. Louis Cleveland Louisville Nashville Cincinnati Columbus Detroit Indianapolis Atlanta	39.2 38.6 38.3 38.2 38.1 38.0 37.7 37.3 37.3	V
25 26 27 28 29 30 31 32 33 34	St. Louis Cleveland Louisville Nashville Cincinnati Columbus Detroit Indianapolis Atlanta Charlotte	39.2 38.6 38.3 38.2 38.1 38.0 37.7 37.3 37.3 36.6 36.1	
25 26 27 28 29 30 31 32 33	St. Louis Cleveland Louisville Nashville Cincinnati Columbus Detroit Indianapolis Atlanta	39.2 38.6 38.3 38.2 38.1 38.0 37.7 37.3 37.3	

Source: Equality of Opportunity Project



Probability that Child Family Income at age 30 will be in the following percentage of earners on the national income distribution:

- Top 20% of Earners
- 60 to 80% of Earners
- 40 to 60% of Earners
- 20 to 40% of Earners
- Bottom 20% of Earners

For example:

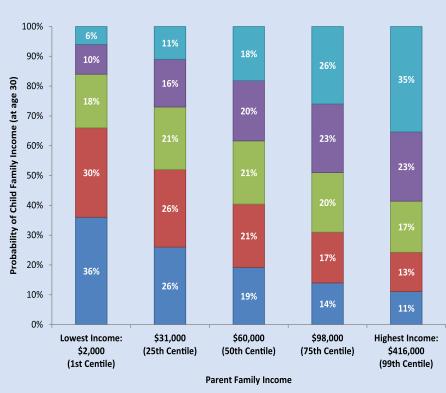
A child who grew up in a household with an income of \$2,000 has a 36 percent chance of being in the bottom 20 percent of earners when they are 30 years old.

A child who grew up in a household with an income of \$416,000 has a 35 percent chance of being in the top 20 percent of earners when they are 30 years old.

Note: Economic mobility is based on household income only. Household wealth and assets are not included. Therefore, social mobility may be overstated.

Economic Mobility, St. Louis Region

Probability of Child Family Income Level at age 30 for Children whose Parents Earned Various Incomes (Parent Family Income)



Relative Mobility: Relative mobility compares the income of adults (at age 30) who grew up in the poorest families to the income of those who grew up in the richest families (based on the parent income in 1996). Thus, relative mobility measures how much of a difference there is between the adult income of people who were raised in the richest one percent and those who were raised in the poorest one percent of families. For this measure, a lower number indicates a higher level of social mobility; the gap between the adult incomes of the poorest and richest children is smaller.

A lower number could indicate a downward mobility for the richest one percent and/or upward mobility for the poorest. It is best to review this measure with the other measures of social mobility.

The Relative Mobility Table shows how the 35 peer commuting zones compare on this measure of social mobility. The four most mobile areas were all in the West: Los Angeles, San Diego, San Francisco and Salt Lake City. St. Louis was among the five least mobile areas by this measure, along with Milwaukee, Cincinnati, Memphis and Baltimore.

In the St. Louis region, children that grew up in the poorest families are expected to rank 40.5 percentiles lower than children who grew up in the richest families (out of the 100 groups, the poorest children can expect to fall into a group that is 40 percentile points lower than the richest). This is twice as large of a gap as is seen in Los Angeles. Therefore, in St. Louis, children who grew up in low income families can expect to remain far apart in income from those who grew up in the richest families.

RELATIVE MOBILITY

Difference in the Child Family Income Percentile Rank for Richest and Poorest Children

1	Milwaukee	41.9	
2	Cincinnati	41.3	
3	Memphis	40.9	
4	Baltimore	40.6	
5	St. Louis	40.5	
6	Columbus	39.3	
7	Indianapolis	39.1	
8	Cleveland	39.0	
9	Charlotte	38.9	
10	Chicago	38.4	
11	Philadelphia	37.8	
12	Louisville	37.3	
13	Kansas City	35.9	
14	Atlanta	35.4	
15	Pittsburgh	35.4	
16	Detroit	35.0	
17	Nashville	34.9	
18	Dallas	33.8	
19	Oklahoma City	33.6	
Avera		33.5	A۱
20	Minneapolis	32.5	
21	Washington DC	32.3	
22	New York	32.0	
23	Houston	31.8	
24	Austin	31.5	
25	Boston	31.2	
26	San Antonio	30.9	
27	Denver	29.1	
28	Phoenix	27.5	
29	Seattle	26.5	
30	Portland	26.2	
31	Miami	25.5	
32	Salt Lake City	24.9	
33	San Francisco	24.2	
34	San Diego	23.4	
35	Los Angeles	22.5	
	- <u>-</u>		

/ERAGE

Source: Equality of Opportunity Project

FIRST QUINTILE TO FIFTH QUINTILE

Probability that Child with Parent Income in the First Quintile will Reach the Fifth Quintile

1	Salt Lake City	11.5
2	San Francisco	11.2
3	Seattle	10.4
4	San Diego	10.4
5	Pittsburgh	10.3
6	Boston	9.8
7	New York	9.7
8	Los Angeles	9.6
9	Washington DC	9.5
10	Minneapolis	9.0
11	Portland	8.9
12	Oklahoma City	8.8
13	Houston	8.4
14	Denver	8.3
15	Phoenix	7.8
16	Philadelphia	7.7
17	Miami	7.4
Avera	ige	7.4
18	Kansas City	6.9
19	Austin	6.9
20	San Antonio	6.6
21	Baltimore	6.5
22	Dallas	6.4
23	Nashville	6.2
24	Louisville	6.2
25	Chicago	6.1
26	St. Louis	5.6
27	Milwaukee	5.6
28	Cincinnati	5.5
29	Cleveland	5.2
30	Detroit	5.1
31	Columbus	5.1
32	Indianapolis	4.8
33	Charlotte	4.3
34	Atlanta	4.0
35	Memphis	2.6

AVERAGE

LOWER

Source: Equality of Opportunity Project

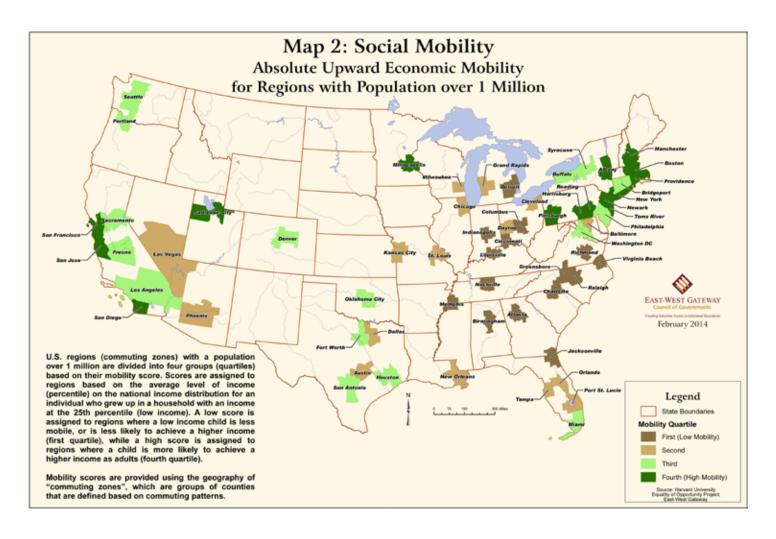
First Quintile to Fifth Quintile of the Income

Distribution: The third measure assesses the probability that a child who was in the lowest 20 percent of income earners in 1996 would reach the highest 20 percent by 2010. The average probability for the 35 peers (7.4 percent) is about the same as is for the United States as a whole (7.5 percent).³ By this measure, Salt Lake City is still the most mobile city, with three Pacific Coast regions also in the top four. Memphis, Atlanta and Charlotte again rank as the least mobile cities. St. Louis ranks 26 out of 35 on this measure, between Chicago and Milwaukee.

In St. Louis, a child who grew up in a low income family (the lowest fifth/quintile of earners) has about a 5.6 percent chance of being among the top income earners at age 30. A child that grew up in Salt Lake City or San Francisco is twice as likely to accomplish this movement on the income distribution (11.5 and 11.2 percent, respectively) and a child in Memphis is half as likely to do so (2.6 percent).

Although this measure indicates there is some social mobility, the Equality of Opportunity Project found that about a third of children in the United States will remain in the bottom fifth of the income distribution (33.7 percent) and about a third will remain in the top fifth (36.5 percent).⁴

³ Chetty, Raj, et al., Where is the Land of Opportunity? The Geography of Intergenerational Mobility in the United States, National Bureau of Economic Research, January 2014.



Characteristics of Regions with a Population over 1 Million:
Regions Grouped based on Level of Social Mobility (Absolute Upward Economic Mobility Score)

	Regions with Low Mobility			Regions with High Mobility
	(1st Quartile)	2nd Quartile	3rd Quartile	(4th Quartile)
Demographic Variables				
Population	1,734,599	2,384,739	3,667,853	3,096,745
Percent Black	21.5%	14.1%	9.8%	6.1%
Net Migration per Resident	0.0062	0.0083	-0.0001	-0.0049
Percent Foreign-born	5.0%	9.3%	14.4%	13.2%
Teen Birth Rate	11.7%	10.8%	9.8%	7.9%
Policy-Related Variables				
Education Spending per Student per Year	\$5,883	\$6,258	\$6,707	\$7,543
Monthly TANF Assistance per Family of 3	\$293	\$341	\$442	\$521
Percent of Commutuers by Car	92.7%	90.3%	88.6%	84.9%
Housing Segregation	0.47	0.48	0.34	0.26
Union Membership	7.5%	10.2%	13.5%	16.0%
Economic Variables				
Per capita Income	\$40,131	\$41,872	\$40,563	\$44,688
Unemployment Rate (1990)	4.6%	5.5%	5.5%	5.0%
Unemployment (2010)	9.8%	9.9%	9.7%	8.8%
Poverty Rate	12.1%	12.1%	12.3%	9.0%
Number of Commuting Zones	15	16	16	15

Note: Data represents the average for the regions (commuting zones) in each quartile. For example, the average population of the 15 regions in the 1st quartile is 1,734,599. Source: Equality of Opportunity Project; calculations made by East-West Gateway

The Geography of Mobility

The Harvard researchers found considerable variation in the level of economic mobility among areas in Untied States and observed what characteristics were common among areas with high upward mobility. The most significant and robust results indicate that regions with high upward mobility tend to have less residential segregation, less income inequality, better primary schools, greater social capital (larger proportions of religious individuals and greater participation in civic organizations), and greater family stability.^{5,6,7}

To gain a greater understanding of the characteristics and policies of regions that are peers to St. Louis, this Where We Stand Update uses the Harvard dataset with two variations. First, the Update includes only regions with a population over one million. Second, regions' participation in the following two programs was added to the dataset: (1) the level of assistance for Temporary Assistance for Needy Families (TANF) and (2) participation in labor unions. Both of these programs have the intended goal of helping low and middle income families achieve self-sufficiency and improve their economic well-being.

To compare characteristics of high mobility regions with low mobility regions, the 62 commuting zones with a population greater than one million were divided into four equal groups (quartiles) according to the level of absolute intergenerational mobility. There are 15 or 16 regions in each of the quartiles (See Map 2). The regions in the first quartile have the lowest mobility scores (shown in dark brown on the map). Children who grew up in low income families in these regions are the least likely to achieve a higher income. The regions in the second and third quartiles have higher mobility scores and those in the fourth quartile (dark green) have the highest scores. Demographic, economic and policyrelated variables were then calculated for each quartile. The Characteristics of Regions Table provides the average data for the commuting zones in each quartile for each of the variables.

Demographic Variables:

- Areas with higher levels of mobility tended to be larger.
 The average size of commuting zones in the two most
 mobile groups exceeded three million. The average size
 of zones in the lower mobility quartiles was less than
 2.5 million.
- The number of African Americans, expressed as a percent of total population, decreases as social mobility increases. This suggests that African Americans are disproportionately concentrated in areas with relatively low levels of social mobility.⁸
- Areas with low levels of social mobility tend to have positive net migration, while areas with more mobility tend to lose persons to migration.
- In spite of the above finding, areas with more mobility also have more individuals who were born in other countries.
- The teen birth rate, like race, is a good predictor of social mobility. Areas with high levels of mobility tend to have lower teen birth rates.

Policy-Related Variables:

This group of variables includes indicators that are partly shaped by public policies. Some variables, such as level of segregation and number of car commuters are also shaped by other factors.

- Higher levels of education spending are strongly associated with higher levels of social mobility.
- Assistance levels in the Temporary Assistance for Needy Families (TANF) are also good predictors of mobility.
 More generous welfare payments are associated with higher levels of social mobility.
- Reliance on cars for commuting is negatively associated with mobility. Areas with more non-car commuters tend to have higher levels of mobility.

⁵ The effect of single parent families appears to be indirect with children of married parents having lower rates of upward mobility if they live in communities with more single parents.

⁶ Chetty, 2014.

⁷ Additionally, mobility and local tax rates (presumed to be used primarily to fund public schools) as well as shorter commute times were correlated but not as robust. The following characteristics were observed but were not found to be significantly correlated with mobility: local labor market conditions, migration, and access to higher education.

⁸ Race is highly correlated with social mobility: Regions with more African Americans tend to show far lower levels of mobility. For commuting zones with a population over one million, the Percent Black variable, by itself, accounts for nearly half (48 percent) of the variation in social mobility. But the Harvard researchers point out that the picture is more complicated than that, noting that areas with low mobility show similarly poor results for both blacks and whites. It appears, then, that the effect of race is indirect or at the community level. Further, they found that areas with large African American populations tend to be more highly segregated by income and race and there is a strong relationship (negative correlation) between measures of segregation and upward mobility.

- Racial segregation, as measured by the isolation index, is negatively associated with mobility. Areas with more integrated housing patterns also have higher levels of social mobility.
- A higher percentage of workers represented by labor unions is correlated with social mobility.

Economic Variables:

- The quartile with the highest level of social mobility also had the highest per capita income. However, there was no apparent relationship between income and mobility for the other three quartiles.
- There is not a consistent relationship between mobility and either unemployment rates or poverty rates.

Conclusion

The research suggests that policies aimed at enhancing the standard of living for low-income families tend to improve the life chances of children born into those families. However, caution should be used in interpreting the results.

Expanding housing opportunities for low-income minorities, spending on education and social assistance, and increasing the jobs accessible by alternative modes of transportation may increase rates of social mobility. In addition, it may be that a policy-environment favorable to labor unions increases wage levels for low-skill workers, including those not represented by unions.

While the research finds relationships between these social programs and higher levels of mobility, caution should be used in ascribing causality to these results, particularly for policy-related variables. Some policy variables, such as unionization and TANF levels were highly correlated with each other. This makes it difficult to tease out the relative importance of each variable. In addition, it may be that some policy variables only serve as proxies for other contributing factors. For example, unionization rates tend to be lower in the South than in the rest of the country. It is possible, then, that the association between unionization and mobility reflects some other unobserved aspect of social conditions in the South. To give another example, it may be that TANF benefits are correlated with other social programs, and that these programs, rather than TANF, account for improved life chances for poor children.

Further, there appears to be a tradeoff between social mobility and population growth. The research finds higher rates of social mobility in regions that are losing population and regions with higher growth rates are among the regions with the lowest upward mobility. Since population growth is often associated with a healthy economy, these can be conflicting regional goals.

The results of this research provide the St. Louis region with topics worthy of regional discussion. The region ranks relatively low on all three measures of economic prospects of children in low-income families. Should greater social mobility be a goal for the region? What policy options would contribute to this goal?



Creating Solutions Across Jurisdictional Boundaries

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Creating Solutions Across Jurisdictional Boundaries

September, 2013 • 6th Edition, Update #6

WHERE WE STAND UPDATE: MANUFACTURING SECTOR

Since its first publication in 1990, Where We Stand has come to be recognized as an authoritative source of information about the competitive position of the St. Louis region in the national marketplace. We track over 100 variables that together tell a story about the health of our region compared to 34 peer MSAs.¹ These regions are our domestic competition and provide a consistent yardstick to gauge "Where We Stand." Now in its sixth edition, Where We Stand is issued about every three years with periodic updates in between each publication. These briefings provide an opportunity to update the St. Louis region's standing with new data or provide further insight on a specific topic. This issue builds on the data included in the WWS sixth edition, providing a greater understanding of the manufacturing sector in the St. Louis region and introduces new indicators on manufacturing exports.

Introduction

Despite the dramatic loss in manufacturing jobs over the past three decades, manufacturing is a vital contributor to the national and St. Louis regional economies. The manufacturing sector provides employment to an estimated 12.0 million people in the U.S. and 111,200 people in the St. Louis region.² Over the last 40 years, the number of manufacturing jobs has decreased substantially, affecting the economy and the lives of many families. In recent years, however, the number of manufacturing jobs in the region has increased. There is evidence that the U.S. is once again competitive in manufacturing, and that St. Louis is poised to benefit from the rebound in American manufacturing. This Where We Stand Update compares the St. Louis region's manufacturing industry to that of 34 peer regions and examines the importance of manufacturing to the regional economy.

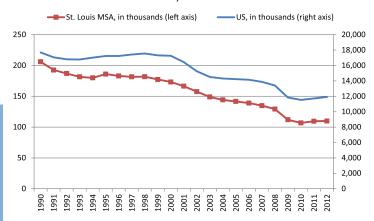
Manufacturing in the St. Louis Region

- Continues to provide high paying jobs with average salary of \$79k (2011)
- Contributes to 24 percent of Gross Domestic Product (2010)
- Accounts directly for 9 percent of jobs in the region (Feb 2012)
- Accounts for more than half of the region's foreign exports

The Fall and Rise of Manufacturing Jobs

In 1969, manufacturing jobs accounted for 26 percent of employment in the St. Louis region with 292,000 jobs in the industry. The number of jobs steadily decreased to a low of 106,800 jobs in 2010. Over the last couple of years, the number of jobs increased to an estimated 111,200 jobs, as of July 2013. Despite the recent increase, the number of manufacturing jobs remains below what it was before the recession (134,900 in 2007), and the percentage of workers engaged in manufacturing (8.5 percent in 2012) is still much lower than historical levels.³

Chart 1: Manufacturing Jobs in United States and St. Louis MSA, 1990 to 2012



Since 1990, manufacturing employment in the St. Louis MSA increased annually in only four years: 1995, 1998, 2011, and 2012. The 2.6 percent increase from 2010 (106,800) to 2011 (109,600) was the largest increase in manufacturing employment in the region since 1995, when there was a 3.4 percent increase. The other

- 2 Bureau of Labor Statistics, July 2013.
- 3 Bureau of Labor Statistics, July 2013.

¹ The U.S. Census Bureau defines a MSA, or metropolitan statistical area, as "that of a large population nucleus, together with adjacent communities having a high degree of social and economic integration with that core. MSAs comprise one or more counties...the Office of Management and Budget (OMB) defines metropolitan areas for purposes of collecting, tabulating, and publishing federal data. Metropolitan area definitions result from applying published standards to Census Bureau data."

increases were minimal with a 0.2 percent rise in 1998 and 0.3 percent in 2012. The region continues to see some growth with an additional increase of 1.2 percent in the first six months of 2013.

The drop and recent increase in manufacturing jobs is not unique to the St. Louis region. As seen in Chart 2, the percent change in manufacturing employment in the St. Louis region tracks the national trend fairly closely. The recent increase in manufacturing employment followed the largest decrease in decades, for both the region and the nation. In 2009, manufacturing employment decreased 13.4 percent for the St. Louis region and 11.6 percent for the United States. The following year, additional decreases occurred in both geographies; -4.6 percent for St. Louis and -2.7 percent for the United States. Over the next two years (2011 and 2012) manufacturing employment increased 2.9 percent for the St. Louis region and 3.4 percent for the nation.

Manufacturing is....

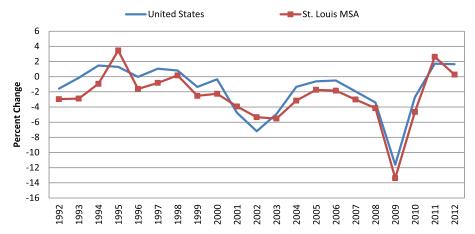
The Manufacturing sector comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products.

Establishments in the Manufacturing sector are often described as plants, factories, or mills and characteristically use power-driven machines and materials-handling equipment. However, establishments that transform materials or substances into new products by hand or in the worker's home and those engaged in selling to the general public products made on the same premises from which they are sold, such as bakeries, candy stores, and custom tailors, may also be included in this sector.

Manufacturing establishments may process materials or may contract with other establishments to process their materials for them. Both types of establishments are included in manufacturing.

~ North American Industry Classification System

Chart 2: Manufacturing Employment, Percent Change, United States and St. Louis MSA, 1992 to 2012



Source: Bureau of Labor Statistics

Although the pattern is not unique to St. Louis, the region experienced one of the largest decreases in manufacturing employment among the 35 peers; ranking 30th in percent change from 1992 to 2012. Over this 20-year period, the St. Louis MSA experienced a drop in manufacturing employment from 187,000 employees to 109,900 employees. This decrease also dropped the region's ranking in total manufacturing employment from 12th to 17th. Almost all regions lost manufacturing employment over this time period with only three regions—Houston, Salt Lake City and San Antonio—experiencing increases in total manufacturing employment. Two of these regions —Salt Lake City and San Antonio—continue to have low total number of manufacturing jobs, ranking 30th and 33rd, respectively.

Looking at the patterns of manufacturing employment in the United States over the past few decades, a Brookings study concluded that there has been a shift in manufacturing back to the Midwest. The Northeast and Midwest have traditionally been the hubs for manufacturers, but between 1980 and 2000, these regions lost manufacturing jobs while the South and West saw gains. From 2000 to 2010, this shift halted with all regions losing manufacturing jobs and the South and Midwest seeing the same percent loss as the nation as a whole.4

PERCENT CHANGE **IN MANUFACTURING EMPLOYMENT** 1992-2012

MANUFACTURING EMPLOYMENT

In thousands, 1992

1	Los Angeles	901.2
2	New York	751.5
3	Chicago	644.4
4	Detroit	343.7
5	Boston	315.2
6	Philadelphia	311.6
7	Dallas	309.5
8	Seattle	222.2
9	Minneapolis	213.3
10	Houston	203.4
	rage	199.4
11	Cleveland	196.4
12		187.0
13	Atlanta	181.1
14	San Francisco	161.9
15	Milwaukee	154.2
16	Cincinnati	148.8
17	Miami	148.2
18	Phoenix	129.5
19	Pittsburgh	122.2
20	Portland	120.9
21	Charlotte	115.5
22	San Diego	111.8
23	Baltimore	111.8
24	Indianapolis	109.3
25	Columbus	92.7
26		88.9
27		88.6
28	Louisville	87.6
29	Denver	79.7
30	Washington DC	66.4
31	Memphis	64.5
32	Austin	53.7
33	Salt Lake City	49.0
34	Oklahoma City	46.0
35	San Antonio	45.6

Source: Bureau of Labor Statistics

MANUFACTURING EMPLOYMENT In thousands, 2012

Loc Angoloc	523.5
	413.7
	357.9
	257.2
	257.2
	219.0
	193.6
	184.1
	182.6
	181.0
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	148.2
	137.2
	123.0
	119.5
	117.0
	116.1
Portland	114.2
	109.9
	105.8
	93.4
	89.7
	83.1
	76.9
Kansas City	72.1
Charlotte	70.7
Louisville	70.5
Nashville	67.3
Columbus	65.9
Denver	63.2
Baltimore	59.1
Salt Lake City	55.2
Austin	50.9
Washington DC	48.7
San Antonio	46.8
Memphis	44.1
Oklahoma City	35.0
	St. Louis Cincinnati San Diego Pittsburgh Indianapolis Miami Kansas City Charlotte Louisville Nashville Columbus Denver Baltimore Salt Lake City Austin Washington DC San Antonio Memphis

Source: Bureau of Labor Statistics

1	Houston	19.6
2	Salt Lake City	12.7
3	San Antonio	2.6
4	Austin	-5.2
5	Portland	-5.5
6	Phoenix	-9.7
7	Minneapolis	-15.1
8	San Diego	-16.5
9	Dallas	-16.9
10	Seattle	-17.1
11	Atlanta	-18.2
12	Kansas City	-18.6
13	Louisville	-19.5
14	Denver	-20.7
15	Milwaukee	-22.5
16	Oklahoma City	-23.9
17	Indianapolis	-24.0
18	Nashville	-24.3
Avei		-24.4
19	Pittsburgh	-26.6
20	Washington DC	-26.7
21	San Francisco	-28.3
22	Cincinnati	-28.9
23	Columbus	-28.9
24	Memphis	-31.6
25	Chicago	-35.8
26	Detroit	-36.3
27	Cleveland	-37.4
28	Boston	-38.6
29	Charlotte	-38.8
30	St. Louis	-41.2
31	Philadelphia	-41.4
32	Los Angeles	-41.9
33	Baltimore	-47.1
34	Miami	-48.1
35	New York	-52.4

Source: Bureau of Labor Statistics

⁴ Helper, Susan, Timothy Krueger, and Howard Wial; Locating American Manufacturing: Trends in the Geography of Production; Metropolitan Policy Program at Brookings, April 2012.

PERCENT CHANGE IN MANUFACTURING EMPLOYMENT 2010-2012

	2010-2012	
1	Detroit	17.5
2	Oklahoma City	12.9
3	Houston	11.9
4	Louisville	11.7
5	Nashville	11.4
6	Seattle	10.3
7	Charlotte	7.4
8	Austin	6.9
9	Portland	6.7
10	Milwaukee	6.0
11	San Antonio	5.9
12	Phoenix	5.7
13	Cleveland	5.6
14	Salt Lake City	5.5
15	Minneapolis	4.5
16	Columbus	4.1
Avei	rage	3.9
17	Atlanta	3.9
18	Denver	3.4
19	St. Louis	2.9
20	Pittsburgh	2.6
21	Cincinnati	2.4
22	Dallas	2.4
23	Chicago	2.3
24	Indianapolis	1.5
25	Miami	1.2
26	San Diego	0.5
27	Los Angeles	0.0
28	Boston	-0.4
29	San Francisco	-0.5
30	Memphis	-1.3
31	Kansas City	-1.4
32	New York	-2.1
33	Philadelphia	-2.5
34	Baltimore	-4.7
35	Washington DC	-6.5

Source: Bureau of Labor Statistics

The most recent data is even more positive for the Midwest with nearly half of all manufacturing jobs gains from 2010 to 2012 occurring in that region of the US.⁵ Metro peer regions in the Northwest, South and Midwest saw gains in manufacturing employment in the last two years. Of the regions that experienced over 10 percent growth, three (Houston, Detroit and Seattle) have some of the largest numbers of total manufacturing jobs while the other three are below average in the total number of jobs in the sector. The increase experienced in the St. Louis region from 2010 to 2012 was the 19th largest among the peer regions, just below the average increase of 3.9 percent.

Importance of the Manufacturing Industry

Despite the decline in manufacturing employment, the sector remains a key component of the United States and the St. Louis regional economies. Not only does the sector continue to provide a large number of jobs, it also has substantial positive impacts on the economy.

- Manufacturing jobs are relatively high paying, particularly for less formally educated workers.
- Manufacturers account for 68 percent of domestic research and development spending by US companies.⁶
- Over half of all U.S. foreign exports are attributed to the manufacturing sector.
- For every dollar in final sales of manufactured products, \$1.34 is generated in other sectors, compared to 55 and 58 cents for retail and wholesale trade, respectively.
- Manufacturing provides 11.9 million direct U.S. jobs and supports an additional 5.8 million jobs in other sectors.⁷



Brookings, February 2012 and Facts about Manufacturing, Manufacturing Institute, November 2012.

⁷ Helper, November 2012.

⁵ Helper, Susan, Timothy Krueger, and Howard Wial; *Locating American Manufacturing: Trends in the Geography of Production*; Metropolitan Policy Program at Brookings, April 2012.

⁶ Helper, Susan, Timothy Krueger, and Howard Wial, Why Does Manufacturing Matter? Which Manufacturing Matters?, Metropolitan Policy Program at

Employment Remains High and High Paying

For the St. Louis region, the importance of manufacturing to the economy is illustrated by the percent of total employment the industry encompasses. The MSA's ranking on this indicator slipped, but the region remains above average, ranking 16th among the peers in 2012 with 8.5 percent of total employment in the manufacturing sector. All regions saw a decrease in the proportion of their employment consisting of manufacturing jobs. St. Louis experienced one of the largest decreases with a 7.5 percentage point decrease. Yet, St. Louis remains above average among the peer regions with a larger proportion of employment attributed to manufacturing than 19 of the peer regions.

MANUFACTURING, PERCENT OF TOTAL EMPLOYMENT, 1992

1	Charlotte	20.7
2	Milwaukee	20.3
3	Cleveland	19.6
4	Los Angeles	18.3
5	Detroit	18.2
6	Cincinnati	17.2
7	Louisville	17.0
8	Seattle	16.7
9	Nashville	16.5
10	Chicago	16.3
11	Portland	16.2
12	St. Louis	16.0
13	Indianapolis	15.9
14	Dallas	15.4
15	Minneapolis	15.1
16	Boston	15.0
Ave	rage	13.6
17	Memphis	13.0
18	Philadelphia	13.0
19	Phoenix	12.7
20	Austin	12.7
21	Columbus	12.6
22	Salt Lake City	12.3
23	San Diego	11.8
24	Pittsburgh	11.8
25	Houston	11.3
26	Atlanta	11.1
27	Kansas City	10.5
28	Oklahoma City	10.4
29	Baltimore	10.2
30	New York	10.2
31	San Francisco	9.1
32	Denver	9.0
33	Miami	8.9
34	San Antonio	8.1
35	Washington DC	3.0

Source: Bureau of Labor Statistics

MANUFACTURING, PERCENT OF TOTAL EMPLOYMENT, 2012

1	Milwaukee	14.5
2	Cleveland	12.1
3	Detroit	12.0
4	Louisville	11.5
5	Portland	11.3
6	Seattle	10.8
7	Cincinnati	10.6
8	Minneapolis	10.2
9	Los Angeles	9.9
10	Chicago	9.5
11	Indianapolis	9.1
12	Houston	9.0
13	Salt Lake City	8.6
14	Nashville	8.6
15	Dallas	8.5
16	St. Louis	8.5
17	Charlotte	8.3
Ave	rage	8.0
18	Boston	7.7
19	Pittsburgh	7.7
20	San Diego	7.4
21	Memphis	7.3
22	Kansas City	7.2
23	Columbus	6.9
24	Philadelphia	6.7
25	Phoenix	6.7
26	Atlanta	6.3
27	Austin	6.2
28	Oklahoma City	5.9
29	San Francisco	5.9
30	San Antonio	5.3
31	Denver	5.1
32	Baltimore	4.5
33	New York	4.2
34		
35	Miami Washington DC	3.4 1.6

Source: Bureau of Labor Statistics

CHANGE IN THE PORTION OF TOTAL EMPLOYMENT THAT WAS MANUFACTURING 1992-2012

1	Washington DC	-1.4
2	Houston	-2.3
3	San Antonio	-2.7
4	San Francisco	-3.2
5	Kansas City	-3.3
6	Salt Lake City	-3.7
7	Denver	-3.9
8	Pittsburgh	-4.0
9	San Diego	-4.4
10	Oklahoma City	-4.5
11	Atlanta	-4.8
12	Minneapolis	-4.8
13	Portland	-4.9
14	Louisville	-5.4
15	Miami	-5.5
Ave	rage	-5.6
16	Columbus	-5.6
17	Memphis	-5.7
18	Milwaukee	-5.7
19	Baltimore	-5.8
20	Seattle	-6.0
21	New York	-6.0
22	Phoenix	-6.0
23	Detroit	-6.3
24	Philadelphia	-6.3
25	Austin	-6.5
26	Cincinnati	-6.7
27	Chicago	-6.8
28	Indianapolis	-6.8
29	Dallas	-6.9
30	Boston	-7.2
31	Cleveland	-7.5
32	St. Louis	-7.5
33	Nashville	-8.0
34	Los Angeles	-8.3
35	Charlotte	-12.3
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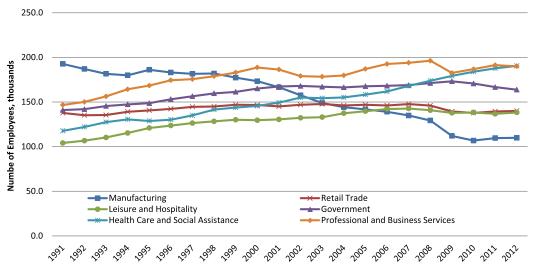
Source: Bureau of Labor Statistics

Although manufacturing remains one of the largest employment sectors in the St. Louis region, it went from the largest in the 1990s to the sixth largest. Over the past two decades, manufacturing, leisure and hospitality, health care and social assistance, retail trade, government, and professional and business services sectors each maintained employment of over 100,000 persons in the region (See Chart 3).

With average earnings per employee of \$79,851 in 2011, manufacturing jobs are among the highest paying jobs in the region, particularly among the top six employing industries. Comparatively, retail trade has an average earnings of \$27,925, health care \$47,925, and government \$65,131. In the St. Louis region,

manufacturing has seen one of the largest increases in the average compensation per employee with a 9.6 percent increase over the past decade. In a 2012 report, the Brookings Institution looked at the type of manufacturing jobs in the United States for the largest 100 metropolitan areas. The portion of the St. Louis region's manufacturing jobs that are in "very high tech" and "moderately high tech" industries is 40.1 percent, compared to 34.7 percent for the U.S. as a whole. On average, jobs in these industries pay two to three times as much as all other manufacturing jobs.⁸

Chart 3: Six Largest Industries, St. Louis MSA 1992 to 2012



Source: Bureau of Labor Statistics

Table 1: Compensation per Full Time and Part Time Employee St. Louis MSA, 2011 Dollars

NAICS Industry	2001 (2011 Dollars)	2011 (Dollars)	Percent Change 2001 to 2011
Government and government enterprises	56,629	65,131	15.0
Management of companies and enterprises	105,169	120,105	14.2
Administrative and waste management services	29,629	33,043	11.5
Health care and social assistance	43,662	47,925	9.8
Manufacturing	72,837	79,851	9.6
Average compensation per job for all wage and salary employees	55,062	58,822	6.8
Wholesale trade	71,366	74,999	5.1
Professional, scientific, and technical services	58,084	58,762	1.2
Finance and insurance	56,081	55,655	-0.8
Retail trade	28,268	27,925	-1.2
Accommodation and food services	19,750	19,038	-3.6
Arts, entertainment, and recreation	30,278	28,675	-5.3
Educational services	40,636	35,838	-11.8
Real estate and rental and leasing	17,733	12,738	-28.2

Note: Compensation includes wage and salary disbursements and supplements to wages and salaries (including employer contributions for employee pension and insurance funds and for government social insurance)

Source: Bureau of Economic Analysis 9



⁹ The source for compensation data is the Bureau of Economic Analysis (BEA) while the remainder of employment data is from the Bureau of Labor Statistics (BLS). Both bureaus provide employment estimates. BEA is considered more comprehensive while BLS provides more timely data. Both provide consistent descriptions of recent employment trends.

The Role of Exports

Exports are a key component to the manufacturing industry as well as a strong indicator of economic competitiveness.

Manufacturing comprises an estimated 61 percent of U.S. exports and US manufacturing exports support an estimated 6.4 million jobs (2.5 million directly and 3.9 million non-manufacturing jobs).

In 2011, \$18.5 billion worth of goods and services were produced in the St. Louis MSA and exported to other countries. Manufacturing was the largest exporting sector, accounting for 62 percent (\$11.6 billion) of total foreign exports (See Chart 4). Wholesale trade and management of companies and enterprises are the next two largest exporting sectors, each accounting for about 8 percent of total foreign exports for the MSA.

The largest two exporting manufacturing industries for the MSA are transportation equipment and chemical (See Table 2). Within the transportation equipment industry, aircraft (\$2.8 billion) and light truck and utility vehicle (\$618 million) manufacturing account for a majority (91 percent combined) of the value of transportation equipment exports. For chemical manufacturing, plastics and resin (\$385 million) comprise the largest portion of the sales but medicinal and botanical, soap and cleaning compound, pharmaceutical preparation, and petrochemical manufacturing also each account for over \$200 million in sales.

Table 2: Manufacuturing Share of Foreign Exports, St. Louis MSA, 2011

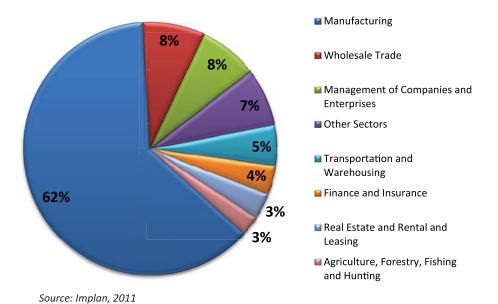
Manufacturing Industry Description	Foreign Exports 2011 (Dollars)	Percent of Total Foreign Exports
Transportation Equipment	3,812,992,625	20.6
Chemical	2,056,846,212	11.1
Primary Metal	1,288,593,051	7.0
Petroleum and Coal Products	1,079,007,171	5.8
Machinery	954,814,000	5.2
Fabricated Metal Product	380,144,184	2.1
Food	335,795,839	1.8
Miscellaneous Manufacturing	274,379,760	1.5
Beverage and Tobacco Product	250,703,165	1.4
Electrical Equipment and Appliance	245,231,726	1.3
Computer and Electronic Product	235,934,329	1.3
Plastics and Rubber Products	232,201,016	1.3
Foreign Exports - All Manufacturing	11,570,966,948	62.4
MSA Total Exports	18,529,732,507	

Source: Implan, 2011

¹⁰ Istrate, Emilia and Nicholas Marchio, Export Nation2012: How U.S. Metropolitan Areas Are Driving National Growth, Brookings Institution, 8 March 2012. http://www.brookings.edu/research/reports/2012/03/08-exports#4

¹¹ http://trade.gov/press/press-releases/2013/export-factsheet-september2013-090413.pdf

Chart 4: Foreign Exports by Sector, St. Louis MSA, 2011



Tides are Changing in the Manufacturing Industry and St. Louis is Poised to Increase Manufacturing Employment

The recent upswing in manufacturing jobs in the U.S. can partially be attributed to an economy that is rebuilding and bringing jobs back that were lost during the recession but there are also signs that the U.S. is regaining its competitive edge in manufacturing. There are several reasons that are given for this resurgence, including:¹² ¹³ ¹⁴

- Rising oil prices and cheaper natural gas ~ The United States has increased energy production, making natural gas plentiful and much more affordable in the U.S. than in Europe or Asia. Oil prices in China have increased fivefold since 2000.
- Higher wages in China and lower wages and higher productivity in U.S. ~ it is estimated that the wage gap between the U.S. and China will close from 22 times higher wages in the U.S. in 2000 to just four times as high by 2015. This along with U.S.'s higher gains in productivity and lower worker turnover rates are making the labor force in the U.S. more competitive.
- ullet Rising land prices in China \sim to secure lower industrial land prices in China, companies will need to move

inland, which will add to transportation costs. Industrial land in some U.S. states is much lower. For example, the national average in China is \$10.22 per square foot compared to \$1.86 to \$7.43 per square foot in Alabama and \$3.96 in the St. Louis region.¹⁵

- Leader in research and development ~ The U.S. remains a leader in global innovation with 31 percent of total global spending on research and development, 16 of the world's top 20 universities and U.S. organizations owning more than one-third of all patents globally.
 Additionally, the U.S. provides companies with certainty that their intellectual property and property rights will be protected. These factors are important not only for the research and development jobs but also for production jobs because companies are realizing the benefits of having their research and development operations close to their operations.
- Strong interest from the administration in creating a
 national network of manufacturing innovation institutes

 President Barack Obama has expressed support for
 creating 15 manufacturing institutes in the country that
 will help companies, particularly small manufacturers,
 capitalize on cutting-edge technologies.

¹² Sirkin, Harold L., Michael Zinser, and Douglas Hohner; *Made in America, Again: Why Manufacturing will Return to the U.S.*, Boston Consulting Group; August 2011.

¹³ Welsch, Hugh, Why Manufacturing Jobs are Returning to America for the First Time in Decades, 27 February 2013; accessed on 1 March 2013 at http://www.businessinsider.com/manufacturing-jobs-returning-to-america-2013-2?goback=%2Egde 3698300 member 218197156

¹⁴ Prah, Pamela M., States in Recovery: Manufacturing; Stateline: The Daily News Service of The Pew Charitable Trusts, 27 February 2013; accessed on 1 March 2013 at http://www.pewstates.org/projects/stateline/headlines/states-in-recovery-manufacturing-85899454454

¹⁵ St. Louis Industrial Market Report, Research and Forecast, Colliers International, Q2 2013.

The Future of Manufacturing in the St. Louis Region

If manufacturing jobs are returning to the United States in the long term, the St. Louis region has several assets that make it poised to capture some of that growth. The region's history in manufacturing means the workforce is skilled and the infrastructure is in place to support further training and education for these jobs. The strong base in manufacturing, particularly in aerospace and defense and food products, means there is opportunity to spur growth that is dependent on clustering. The region's central location and highly developed integrated transportation infrastructure—the confluence of three major rivers, access to six Class 1 railroads, four major interstates and the second largest inland port in the US—are seen as tremendous assets for the manufacturing sector.

The St. Louis Regional Chamber and the Southwestern Illinois Economic Development Network both recently initiated efforts with specific target areas that seek to build on these manufacturing assets. Additionally, regional leaders are coming together as a result of a regional freight study to better coordinate transportation and land use to facilitate growth of freight in the region which will support a growth in the manufacturing sector.

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Creating Solutions Across Jurisdictional Boundaries

May, 2013 • 6th Edition, Update #5

WHERE WE STAND UPDATE: TRANSPORTATION EMISSIONS

Since its first publication in 1990, Where We Stand has come to be recognized as an authoritative source of information about the competitive position of the St. Louis region in the national marketplace. We track over 100 variables that together tell a story about the health of our region compared to 34 peer MSAs.¹ These regions are our domestic competition and provide a consistent yardstick to gauge "Where We Stand." Now in its sixth edition, Where We Stand is issued about every three years with periodic updates in between each publication. These briefings provide an opportunity to update the St. Louis region's standing with new data or provide further insight on a specific topic. This issue introduces new indicators, comparing St. Louis to the 34 peer regions on vehicle miles traveled (VMT) and transportation-related emissions.

Transportation-Related Emissions

According to the EPA, transportation accounts for approximately 27 percent of all greenhouse gas (GHG) emissions nationwide, making it the second largest contributing sector.² The industrial sector is the largest, contributing 30 percent, with residential, commercial, and agriculture comprising the remaining 43 percent. Over the last 20 years, the transportation sector had the highest absolute increase in emissions of the five sectors.³

In the St. Louis region, transportation-related emissions are substantial. The average St. Louis metro resident emitted 1.71 tons of carbon dioxide from highway transportation in 2005, which is higher than the average of the 100 largest metro areas (1.31 tons per capita) and higher than the national average (1.44 tons per capita).⁴

Based on estimates of travel by residents on all roads in 2007, the St. Louis region had 8.54 tons of transportation-related GHG emissions per household. In comparison to our 34 peer regions, the St. Louis MSA ranks 14th, which is 0.15 tons above the peer average of 8.29 tons per household. This measure of GHG emissions is based on national average fuel efficiency and average emissions factor per gallon of gasoline.

Greenhouse gases are compounds that prevent heat from escaping the earths' atmosphere, and are created by both natural and man-made processes. The primary types of GHG emissions are carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O).⁵ Each gas has a unique ability to trap heat, which is measured by its Global Warming Potential (GWP). Total GHG emissions are measured in carbon dioxide equivalents, which are calculated by converting each gas according to its GWP.

- 1 The U.S. Census Bureau defines a MSA, or metropolitan statistical area, as "that of a large population nucleus, together with adjacent communities having a high degree of social and economic integration with that core. MSAs comprise one or more counties...the Office of Management and Budget (OMB) defines metropolitan areas for purposes of collecting, tabulating, and publishing federal data. Metropolitan area definitions result from applying published standards to Census Bureau data."
- 3 The EPA study provides one analysis of GHG emissions. Other methods and parameters are used to analyze GHG emissions, which produce different results.
- 4 Brown, Marilyn A., Frank Southworth, and Andrea Sarzynski. *Shrinking the Carbon Footprint of Metropolitan America*. Metropolitan Policy Program at Brookings, 2008.
- 5 Inventory of U.S. Greenhouse Emissions 1990 2010, EPA, 2012.

Transportation GHG Emissions Tons per Household, 2007

1	Nashville	9.43
2	Atlanta	9.43
3	Charlotte	9.15
4	Kansas City	8.97
5	Austin	8.89
6	Cincinnati	8.89
7	Indianapolis	8.78
8	Columbus	8.67
9	Minneapolis	8.65
10	Oklahoma City	8.62
11	Dallas	8.58
12	Salt Lake City	8.56
13		8.55
14	St. Louis	8.54
15	Houston	8.48
16	Louisville	8.44
17	Washington, DC	8.39
18	San Diego	8.36
19	San Antonio	8.35
Ave		8.29
	Phoenix	8.27
21	Baltimore	8.25
22	Pittsburgh	8.20
23	Detroit	8.12
24	Portland	8.11
25	Boston	8.05
26	Milwaukee	8.01
I	Seattle	8.00
28	Cleveland	7.95
29	Philadelphia	7.67
30	Chicago	7.66
31	Denver	7.48
32	Miami	7.45
33	San Francisco	7.43
34	Los Angeles	7.20
35	New York	6.48

Source: Center for Neighborhood Technology

2 Fast Facts: U.S. Transportation Sector Greenhouse Gas Emissions 1990 – 2010, Office of Transportation and Air Quality, EPA, 2012.

CHANGE IN AVERAGE DAILY VMT ON FREEWAYS AND ARTERIALS.

Percent Change, 1991 - 2011

_	01 1 11	200.0
1	Charlotte	208.8
2	, , , , , , , , , , , , , , , , , , , ,	131.2
3		99.0
	Phoenix	89.6
5		82.8
6	7 1110411104	81.9
7		80.7
8	San Antonio	79.5
9		78.2
10		77.5
11		72.7
12		67.8
13	St. Louis	67.0
Avera		62.2
14	Louisville	61.8
15		61.6
16	New York	61.5
1	Dallas	60.9
18	Memphis	59.2
19	Oklahoma City	58.1
20	Minneapolis	56.9
21	Portland	52.4
22	Chicago	48.5
23	Salt Lake City	48.3
24	Seattle	47.1
25	Boston	46.0
26	Philadelphia	45.0
27		43.2
28	Baltimore	42.2
29	Cleveland	40.2
30		34.3
31		33.9
32		21.0
33		17.8
34		13.8
35	Pittsburgh	5.0

Source: Urban Mobility Report, 2012, Texas Transportation Institute

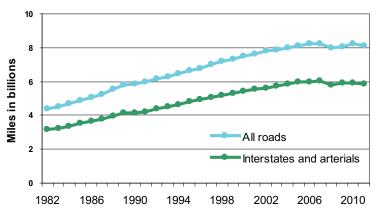
CHANGE IN AVERAGE DAILY VMT ON FREEWAYS AND ARTERIALS.

Percent Change, 2001 - 2011

1	Charlotte	46.7
2	Austin	35.9
3		26.5
4	Nashville	26.1
5	Washington, DC	25.1
6	New York	22.2
7	Portland	20.8
8	Cincinnati	20.2
9	Columbus	19.3
10	Miami	19.2
11	San Antonio	18.3
12	Oklahoma City	18.0
13	Chicago	18.0
14	Indianapolis	17.7
15	Louisville	17.0
16	Denver	15.9
17	Milwaukee	15.2
Avera	ige	15.2
18	Salt Lake City	14.5
19	Boston	14.2
20	St. Louis	13.7
21	Seattle	13.6
22	Baltimore	12.3
23	Philadelphia	11.0
24	Houston	10.7
25	Dallas	10.5
26	Memphis	10.3
27	Cleveland	9.7
28	San Francisco	8.7
29	Minneapolis	7.2
30	Atlanta	6.4
31	San Diego	6.0
32	Kansas City	5.4
33	Los Angeles	0.9
34	Detroit	-1.9
35	Pittsburgh	-4.4

Source: Urban Mobility Report, 2012, Texas Transportation Institute

Figure 1: Average Daily VMT in the United States, 1982-2011



Source: Traffic Volume Trends, Federal Highway Administration

Note: VMT on interstates and arterials from 1982 to 1989 is based on VMT for all roads multiplied by the average proportion of VMT driven on freeways and arterials from 1990 to 2011.

Change in Traffic Volume

Traffic volume is one of the key determinants of GHG emissions from transportation. Traffic volume is measured by the total number of miles traveled by each vehicle, also known as Vehicle Miles Traveled (VMT). For comparison between the peer metro regions, the best available data on traffic volume is VMT on freeways and arterial roads in each metro region's "urban area", as defined by the Texas Transportation Institute.

Over the last twenty years, the average daily VMT on freeways and arterials in St. Louis increased from just under 30 million miles per day in 1991 to about 50 million miles per day in 2011, a 67.0 percent increase. The increase in average daily VMT in St. Louis is just above the average increase for the 35 peer regions.

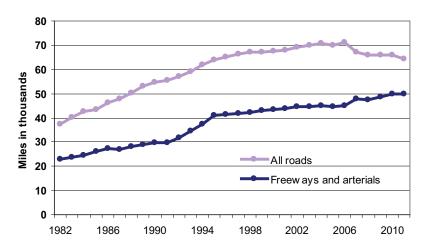
In the last ten years the growth in average daily VMT slowed in the peer regions. From 1991 to 2001 the peer region average increase in VMT was 39.7 percent, whereas from 2001 to 2011 the peer region average increase was only 15.2 percent. St. Louis also experienced this trend, with a 46.9 percent increase in VMT from 1991 to 2001, compared to a 13.7 percent increase from 2001 to 2011. The St. Louis region had slightly lower growth in average daily VMT than peer regions from 2001 to 2011.

Nationwide, VMT on all roads and on interstates and arterials increased almost every year between 1982 and 2011, with several annual decreases since 2007 (See Figure 1). The total growth in VMT for both road categories over this time span was approximately 86 percent.

In the St. Louis region, VMT on all roads and on freeways and arterials has stagnated or declined in recent years (See Figure 2).⁶ Between 1982 and 2011, VMT on all roads grew by 72.5 percent, with an average annual increase of 3.4 percent between 1982 and 2000, and an average annual decline of 0.4 percent between 2000 and 2011. VMT on freeways and arterials grew by 116.6 percent between 1982 and 2011, with an average annual increase of 2.6 percent between 1982 and 2000 and an average annual increase of 1.3 percent between 2000 and 2011.

6 VMT data on all roads is based on the eight county region, and VMT data on freeways and arterials is based on a slightly smaller "urban area" defined by the Texas Transportation Institute.

Figure 2: Average Daily VMT in the St. Louis Region, 1982-2011



Source for all roads: HPMS, Federal Highway Administration Source for freeways and arterials: Urban Mobility Report, Texas Transportation Institute

VMT per Capita

Traffic volume is affected by many factors, including population, density, household size, car ownership, labor force participation, the economy, and gas prices. Per capita VMT reflects the combined effect of factors other than population size, and enables comparison between regions. In 2011, the average St. Louis resident drove 21.3 miles per day on freeways and arterials, ranking 7th among the peer regions, and 2.2 miles per day higher than the peer region average.

Over the last several decades VMT per capita on all roads in the St. Louis region had a greater increase than the United States followed by a greater decline than the United States (See Figure 3). Average daily VMT per capita peaked in the St. Louis region in 1998 at 33.6 miles per day, and declined by 18.6 percent to 27.4 miles per day in 2011. In the U.S., average daily VMT per capita peaked in 2005 at 27.5 miles per day, with a decline of 5.3 percent to 26.1 miles per day in 2011. Both the St. Louis region and the United States had similar overall increases in VMT over this

time span, with a 37.7 percent increase in average daily VMT per capita in St. Louis and a 38.3 percent increase in the United States.

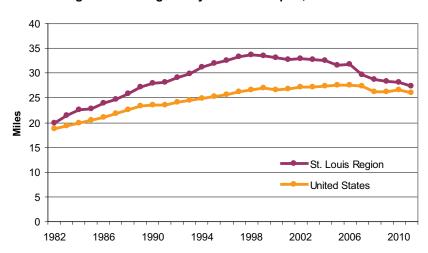
Unlike the United States, which had a decline of 3.4 percent in average daily VMT per capita on interstates and arterials from 2001 to 2011, the peer metro regions averaged a slight increase of 1.1 percent. In St. Louis, the average daily VMT per capita increased 0.7 percent, ranking 16th among the 35 peer regions.

AVERAGE DAILY VMT PER CAPITA ON FREEWAYS AND ARTERIALS, 2011

1	Oklahoma City	24.1
2	Houston	23.1
3	Indianapolis	23.1
4	Nashville	23.0
5	Kansas City	21.4
6	Charlotte	21.4
7	St. Louis	21.3
8	Atlanta	21.3
9	Columbus	21.2
10	San Antonio	20.8
11	Detroit	20.6
12	Dallas	20.3
13	Memphis	20.2
14	San Francisco	20.1
15	Louisville	20.0
16	Minneapolis	19.7
17	Washington, DC	19.5
18	Los Angeles	19.3
Ave	erage	19.1
19	San Diego	19.1
20	Cincinnati	19.0
21	Denver	18.6
22	Seattle	18.6
23	Cleveland	18.1
24	Boston	17.9
25	Baltimore	17.9
26	Milwaukee	17.8
27	Phoenix	17.6
28	Austin	17.6
29	Miami	17.2
30	Salt Lake City	16.4
31	Pittsburgh	15.7
32	Portland	15.1
33	Philadelphia	14.9
34	Chicago	13.3
35	New York	12.1

Source: Urban Mobility Report, 2012, Texas Transportation Institute

Figure 3: Average Daily VMT Per Capita, 1982-2011



Sources: HPMS, Federal Highway Administration; Traffic Volume Trends, Federal Highway Administration; and Resident Population Estimates, U.S. Census Bureau

CHANGE IN AVERAGE DAILY VMT PER CAPITA ON FREEWAYS AND ARTERIALS,

Percent Change 2001 - 2011

1	Charlotte	18.6
2	Cleveland	15.2
3		11.7
4		11.0
5	Washington, DC	9.3
6	Miami	7.9
7	Milwaukee	7.8
8	Cincinnati	7.8
9	Philadelphia	5.7
10	Columbus	5.5
11	San Francisco	4.2
12	Boston	4.1
13	Salt Lake City	2.6
14	Detroit	2.1
15	Memphis	2.1
Avei	age	1.1
16	St. Louis	0.7
17	Baltimore	0.2
18	Denver	0.0
19		-0.2
20		-0.3
21	Indianapolis	-1.7
22	Houston	-2.6
23	Oklahoma City	-2.8
24	Austin	-3.0
25	Pittsburgh	-4.1
26	San Antonio	-4.3
27	Los Angeles	-5.0
28		
	Kansas City	-5.2
29	Seattle	-5.3
30	Seattle Minneapolis	-5.3 -5.5
30 31	Seattle Minneapolis San Diego	-5.3 -5.5 -5.6
30 31 32	Seattle Minneapolis San Diego Atlanta	-5.3 -5.5 -5.6 -6.1
30 31 32 33	Seattle Minneapolis San Diego Atlanta Nashville	-5.3 -5.5 -5.6 -6.1 -6.4
30 31 32 33 34	Seattle Minneapolis San Diego Atlanta Nashville Louisville	-5.3 -5.5 -5.6 -6.1 -6.4 -7.2
30 31 32 33	Seattle Minneapolis San Diego Atlanta Nashville	-5.3 -5.5 -5.6 -6.1 -6.4

Source: Urban Mobility Report, 2012, Texas Transportation Institute

Conclusion

The St. Louis region has higher transportation-related GHG emissions and higher VMT per capita than the peer region average. However, VMT and VMT per capita in St. Louis have increased slowly or declined in recent years, paralleling the slower growth in VMT found in the peer regions and nationally. There are several factors that make it likely that VMT will continue this slower growth pattern, including the projected continuation of high gasoline prices, the aging of the workforce, and the increasing preferences of younger generations for less autooriented lifestyles.⁷

The slower growth in VMT should have a positive effect on GHG emissions, since smaller increases in driving will limit the increase in GHG emissions from transportation. To eliminate increases in transportation-related emissions a variety of strategies are necessary, including increasing fuel efficiency, supporting alternative fuel vehicles, and promoting alternative modes of transportation.

These strategies and the overall reduction in VMT present an obstacle for transportation funding. The slower growth in VMT has reduced gasoline tax revenue, the primary source of funding for highways, which is already strained due to increases in fuel efficiency and the effects of inflation.⁸ The reduction in gas tax revenue has made it more difficult to finance transportation projects and the projected continuation of slow growth in VMT will increase this strain. However, the slow growth in VMT also presents an opportunity to consider alternative transportation options and funding sources to provide a better transportation system.

7 Dutzik, Tony and Phineas Baxandall. A New Direction: Our Changing Relationship with Driving and the Implications for America's Future. U.S. PIRG Education Fund and Frontier Group, 2013.

8 Ibid.



Creating Solutions Across Jurisdictional Boundaries

March, 2013 • 6th Edition, Update #4

WHERE WE STAND UPDATE: POPULATION CHANGE

Since its first publication in 1990, Where We Stand has come to be recognized as an authoritative source of information about the competitive position of the St. Louis region in the national marketplace. We track more than 100 variables that together tell a story about the health of our region compared to 34 peer MSAs.¹ These regions are our domestic competition and provide a consistent yardstick to gauge "Where We Stand." Now in its sixth edition, Where We Stand is issued about every three years with periodic updates in between each publication. These briefings provide an opportunity to update the St. Louis region's standing with new data or provide further insight on a specific topic. This issue takes a look at new population data released by the United States Census for 2012.

Metropolitan Area Population Change

In the past year the St. Louis metropolitan statistical area (MSA)² added a net of 2,419 people, bringing the MSA's total population to 2.8 million. Based on new data released by the U.S. Census, the St. Louis region's population increased an estimated 9,070 people due to natural increase (births minus deaths) from July 2011 to July 2012. The region also saw an increase of 4,300 people from international migration, but an estimated 10,990 more U.S. residents moved out of the region than moved to the St. Louis MSA; resulting in net out migration of 6,600.

Over the past year, all 35 metropolitan peer regions gained population, except for Cleveland. The St. Louis region's gain of 0.09 percent was the 3rd lowest gain in population among the 35 peers. The average increase for the 35 peers was just over one percent with 17 regions seeing more than a one percent increase in their population. The regions with the largest percentage increase were mostly in the south and west. All four of the highest percentage gainers are metro areas in Texas.

The St. Louis region remained the 17th most populous MSA among the 35 peer regions; a ranking the region has held since the MSA boundary changes after the 2000 Census. At that time, the boundary changes resulted in Seattle, Miami, and San Francisco increasing 2000 population enough to move up in ranks and push St. Louis from 14th to 17th.

The boundary changes after the 2010 Census did not result in much change in the rankings of the 35 peer regions.³

1 The U.S. Census Bureau defines a MSA, or metropolitan statistical area, as "that of a large population nucleus, together with adjacent communities having a high degree of social and economic integration with that core. MSAs comprise one or more counties...the Office of Management and Budget (OMB) defines metropolitan areas for purposes of collecting, tabulating, and publishing federal data. Metropolitan area definitions result from applying published standards to Census Bureau data."

Population 2012

1	New York	19,831,858
2	Los Angeles	13,052,921
3	Chicago	9,522,434
4	Dallas	6,700,991
5	Houston	6,177,035
6	Philadelphia	6,018,800
7	Washington DC	5,860,342
8	Miami	5,762,717
9	Atlanta	5,457,831
10	Boston	4,640,802
11	San Francisco	4,455,560
12	Phoenix	4,329,534
13	Detroit	4,292,060
Aver	age	4,110,708
14	Seattle	3,552,157
15	Minneapolis	3,422,264
16	San Diego	3,177,063
17	St. Louis	2,795,794
18	Baltimore	2,753,149
19	Denver	2,645,209
20	Pittsburgh	2,360,733
21	Charlotte	2,296,569
22	Portland	2,289,800
23	San Antonio	2,234,003
24	Cincinnati	2,128,603
25	Cleveland	2,063,535
26	Kansas City	2,038,724
27	Columbus	1,944,002
28	Indianapolis	1,928,982
29	Austin	1,834,303
30	Nashville	1,726,693
31	Milwaukee	1,566,981
32	Memphis	1,341,690
33	Oklahoma City	1,296,565
34	Louisville	1,251,351
35	Salt Lake City	1,123,712
	,	

Source: US Census

Population Change Percent Change 2011 - 2012

1	Austin	3.01
2	Houston	2.07
3	Dallas	2.01
4	San Antonio	1.93
5	Phoenix	1.82
6	Denver	1.80
7	Charlotte	1.75
8	Nashville	1.67
9	Oklahoma City	1.63
10	Seattle	1.55
11	Atlanta	1.55
12	Washington DC	1.54
13	Salt Lake City	1.51
14	San Francisco	1.33
15	Miami	1.32
16	Portland	1.28
17	San Diego	1.24
Avei		1.08
18	Indianapolis	0.99
19	Minneapolis	0.98
20	Columbus	0.98
21	Los Angeles	0.83
22	Boston	0.81
23	Baltimore	0.71
24	Kansas City	0.68
25	Memphis	0.62
26	Louisville	0.53
27	New York	0.52
28	Milwaukee	0.36
29	Philadelphia	0.36
30	Cincinnati	0.30
31	Chicago	0.28
32	Detroit	0.10
33	St. Louis	0.09
34	Pittsburgh	0.03
35	Cleveland	-0.24
	Source: US Census	

Source: US Census

2 The St. Louis MSA includes Bond, Calhoun, Clinton, Jersey, Macoupin, Madison, Monroe, and St. Clair counties in Illinois and the city of St. Louis, Franklin, Jefferson, Lincoln, St. Charles, St. Louis and Warren counties in Missouri. As of 2-28-13 Washington County, Missouri is no longer a part of the St. Louis MSA.

The regions with the largest percentage population gains—Austin, Houston, Dallas, San Antonio, Phoenix, and Denver—experienced the largest increase in net migration, particularly domestic migration. Dallas, Houston, Phoenix, and Austin had the greatest net domestic migration among the peer MSAs. Over 30,000 more people moved into each of these regions from other places in the United States than migrated out of the regions. The most populated regions continue to be the largest attractors for international migration with Miami, Washington DC, and New York experiencing the largest percentage increases. New York experienced the largest influx of international immigrants from July 2011 to July 2012 with

Net Migration Percent of 2011 Population 2011-2012

1	Austin	2.01
2	San Antonio	1.17
3	Charlotte	1.16
4	Dallas	1.10
5	Nashville	1.10
6	Phoenix	1.09
7	Houston	1.08
8	Denver	1.04
9	Oklahoma City	0.99
10	Miami	0.99
11	Seattle	0.93
12	San Francisco	0.82
13	Atlanta	0.80
14	Portland	0.73
15	Washington DC	0.73
Avei	age	0.51
16	San Diego	0.47
17	Boston	0.46
18	Columbus	0.39
19	Baltimore	0.35
20	Salt Lake City	0.35
21	Indianapolis	0.35
22	Minneapolis	0.30
23	Pittsburgh	0.19
24	Louisville	0.16
25	Kansas City	0.11
26	Los Angeles	0.10
27	Memphis	0.02
28	Philadelphia	0.02
29	New York	-0.02
30	Milwaukee	-0.13
31	Detroit	-0.13
32	Cincinnati	-0.13
33	St. Louis	-0.24
34	Chicago	-0.31
35	Cleveland	-0.34

Source: US Census

Net International Migration Percent of 2011 Population 2011 - 2012

1	Miami	0.90
2	Washington DC	0.65
3	New York	0.63
4	San Francisco	0.51
5	Boston	0.51
6	Seattle	0.49
7	San Diego	0.47
8	Houston	0.42
9	Los Angeles	0.40
10	Atlanta	0.34
11	Baltimore	0.32
12	Minneapolis	0.31
Avei		0.31
13	Austin	0.31
14	Dallas	0.31
15	Philadelphia	0.30
16	Chicago	0.26
17	Charlotte	0.25
18	Portland	0.25
19	Columbus	0.25
20	Salt Lake City	0.23
21	Detroit	0.23
22	Nashville	0.22
23	Phoenix	0.22
24	San Antonio	0.21
25	Indianapolis	0.20
26	Oklahoma City	0.19
27	Denver	0.18
28	Cleveland	0.17
29	Louisville	0.17
30	Kansas City	0.16
31	St. Louis	0.16
32	Cincinnati	0.15
33	Memphis	0.14
34	Milwaukee	0.14

Source: US Census

0.11

35 Pittsburgh

more than 120,000 people moving to the region from other countries. Los Angeles and Miami also drew large numbers of immigrants with more than 50,000 moving into each region.

The St. Louis region ranks 33rd on net migration with 0.24 percent of the 2011 population moving out of the region over the one-year period. The region was one of seven to experience negative net migration. All of the peer regions experienced population increases due to international migration with the St. Louis region increasing population by 0.16 percent due to immigrants, which ranks it 31st.

Population Change by County

Table 1 provides the components of population change for the 15 counties in the St. Louis MSA. St. Charles County continued to be the leader in population growth with a net increase of 3,600 residents. St. Louis County experienced a population increase, inching back over one million residents. Jefferson County experienced net outmigration, but saw a population increase due to more births than deaths. Monroe was the only county in the Illinois portion of the region to experience a population increase as well as the only Illinois county to experience net positive migration. Despite a population decrease, the city of St. Louis had the second largest influx of international immigrants among the counties.

Table 1: Population Change by County, St. Louis MSA July 2011 to July 2012

County Illinois	Population 2012	Population Change 2011 to 2012	Natural Increase (Births -Deaths)	Inter- national Migration	Domestic Migration
Bond	17,644	-93	17	4	-113
Calhoun	5,014	-52	-12	3	-43
Clinton	38,061	-75	52	22	-149
Jersey	22,742	-115	10	7	-133
Macoupin	47,231	-587	-105	13	-502
Madison	267,883	-626	439	177	-1,249
Monroe	33,357	80	51	5	28
St. Clair	268,858	-1,261	1,032	527	-2,857
Missouri					
Franklin	101,412	-269	313	21	-608
Jefferson	220,209	544	812	103	-356
Lincoln	53,354	297	374	6	-81
St. Charles	368,666	3,685	2,174	371	1,180
St. Louis	1,000,438	1,117	2,019	2,036	-2,913
Warren	32,753	165	124	3	40
City of St. Louis	318,172	-391	1,778	1,062	-3,235
MSA Total	2,795,794	2,419	9,078	4,360	-10,991

Note: In addition to the population changes outlined in this table, the Census also calculates a residual. For 2012 the residual for the St. Louis MSA was 28.

Source: US Census

To receive future WWS Updates, contact wws@ewgateway.org

To view past editions of WWS and WWS Updates, visit www.ewgateway.org/wws/wws.htm

³ On February 28, 2013 the Office of Management and Budget issued revised delineations of Metropolitan Statistical Areas, Micropolitan Statistical Areas, and Combined Statistical Areas. The delineations are based on the Standards for Delineating Metropolitan and Micropolitan Statistical Areas published on June 28, 2010, in the Federal Register (75 FR 37246-37252) and the application of those standards to Census Bureau population and Journey-to-work data. http://www.whitehouse.gov/sites/default/files/omb/bulletins/2013/b-13-01.pdf





Creating Solutions Across Jurisdictional Boundaries

January, 2013 • 6th Edition, Update #3

WHERE WE STAND UPDATE: TWENTY YEARS LATER

Since its first publication in 1990, Where We Stand has come to be recognized as an authoritative source of information about the competitive position of the St. Louis region in the national marketplace. We track over 100 variables that together tell a story about the health of our region compared to 34 peer MSAs.¹ These regions are our domestic competition and provide a consistent yardstick to gauge "Where We Stand". Now in its sixth edition, Where We Stand is issued about every three years with periodic updates in between each publication. These briefings provide an opportunity to update St. Louis' standing with new data or provide further insight on a specific topic. This issue takes a look at the trends and themes seen throughout the six editions of the publication and how St. Louis' rankings among its peers have changed from 1990 to 2011.

Introduction

What makes a community attractive? What makes a region thrive? Is the St. Louis region making the strategic decisions necessary to elevate our standing in the national marketplace? What is required to broaden and strengthen our approach to problem solving? These are just some of the questions Where We Stand: the Strategic Assessment of the St. Louis Region has prompted for 20 years.

This update takes a look back at the six editions published in 1992, 1996, 1999, 2002, 2006 and 2011, finding that the St. Louis region on most aspects has not made great strides but also has not fallen behind our peers dramatically. The region is holding steady. The general themes are those that are very familiar to those of us in the region—we are slow growing, our economy has been hurt by the loss of manufacturing jobs, the region is relatively affordable, our population aging faster, and we have a fragmented government structure.

Although these themes are well known it remains important that we, as the residents and leaders of the region, continue to take an objective look at the facts. Not only so we can understand how we compare with those we compete with for jobs and people but also so we can make fact-based decisions to improve the quality of life for the people who work and live in the region, and potentially attract more people.



1 The U.S. Census Bureau defines a MSA, or metropolitan statistical area, as "that of a large population nucleus, together with adjacent communities having a high degree of social and economic integration with that core. MSAs comprise one or more counties...the Office of Management and Budget (OMB) defines metropolitan areas for purposes of collecting, tabulating, and publishing federal data. Metropolitan area definitions result from applying published standards to Census Bureau data."

St. Louis and Our Peer Regions

For the first edition of *Where We Stand* (*WWS*) in 1990, 29 regions were chosen as St. Louis' peers. These regions were seen as the major metropolitan regions that St. Louis competes with for population and jobs. For the second edition in 1996, five regions were added to the list based on the same criteria used in the first edition—regions with a population of 950,000 or more and within 500 miles of St. Louis or areas that had an economic function similar to the St. Louis region's. The publication continued with the same regions through the sixth edition, recognizing these are the areas that continue to be the region's main competition as well as to allow for analysis over time. The *Where We Stand* Peer Regions map depicts the 35 peer regions used in the publication.

Demographics

Who are the residents of the St. Louis region? How do the demographics of our population differ from those of other regions? How have these differences changed? Compared to other major metropolitan areas in the country, the themes seen in the demographic data for the St. Louis region are a slow but positive population growth, negative net migration, not as ethnically diverse, a more dispersed population and a population that is aging faster than the rest of the country.

A Peer Region...

- Has a population of 950,000 or more AND
- Is within 500 miles of St. Louis OR
- Has an economic function similar to that of the St. Louis region.



The Metro Area Population 2010 table shows St. Louis is currently the 17th most populated region among the 35 peers. The region has maintained this close to the middle of the pack standing with a steady population growth of over four percent for each of the last two decades. The region did not experience the substantial population increases as seen in several regions in the South and West but the region has not lost population, as is the case in several of the peer Midwest regions. St. Louis' population has grown slowly, ranking 31st for population change from 1990 to 2000 and 27th from 2000 to 2010. Across the board the 35 metropolitan regions saw less population growth in the last decade than in the 1990s, indicating an overall trend of fewer population shifts and less movement.

METRO AREA POPULATION 1990

1 Los Angeles	8,863,164
2 New York City	8,546,846
3 Chicago	6,069,974
4 Philadelphia	4,856,881
5 Detroit	4,382,299
6 Washington DC	3,923,674
7 Boston	3,783,817
8 Houston	3,301,937
9 Atlanta	2,833,611
Average	2,724,967
10 Dallas	2,553,362
11 Minneapolis	2,464,124
12 St. Louis	2,444,099
13 Baltimore	2,382,172
14 Phoenix	2,122,101
15 Pittsburgh	2,056,705
16 Seattle	1,972,961
17 Miami	1,937,094
18 Cleveland	1,831,122
19 Denver	1,622,960
20 San Francisco	1,603,678
21 Kansas City	1,566,280
22 Cincinnati	1,452,645
23 Milwaukee	1,432,149
24 Columbus	1,377,419
25 Indianapolis	1,249,822
26 Portland	1,239,842
27 Nashville	985,026
28 Memphis	981,747
29 Oklahoma City	958,839
30 Louisville	952,662

Source: 1990 Census

METRO AREA POPULATION 2010

1	New York	18,897,109
2	Los Angeles	12,828,837
3	Chicago	9,461,105
4	Dallas	6,371,773
5	Philadelphia	5,965,343
6	Houston	5,946,800
7	Washington D.C.	5,582,170
8	Miami	5,564,635
9	Atlanta	5,268,860
10	Boston	4,552,402
11	San Francisco	4,335,391
12	Detroit	4,296,250
13	Phoenix	4,192,887
Ave	erage	3,980,077
14	Seattle	3,439,809
15	Minneapolis	3,279,833
16	San Diego	3,095,313
17	St. Louis	2,812,896
18	Baltimore	2,710,489
18 19	Baltimore Denver	2,710,489 2,543,482
_	Denver Pittsburgh	2,543,482 2,356,285
19 20 21	Denver Pittsburgh Portland	2,543,482
19 20 21 22	Denver Pittsburgh Portland San Antonio	2,543,482 2,356,285 2,226,009 2,142,508
19 20 21 22 23	Denver Pittsburgh Portland	2,543,482 2,356,285 2,226,009 2,142,508 2,130,151
19 20 21 22	Denver Pittsburgh Portland San Antonio	2,543,482 2,356,285 2,226,009
19 20 21 22 23	Denver Pittsburgh Portland San Antonio Cincinnati	2,543,482 2,356,285 2,226,009 2,142,508 2,130,151
19 20 21 22 23 24	Denver Pittsburgh Portland San Antonio Cincinnati Cleveland	2,543,482 2,356,285 2,226,009 2,142,508 2,130,151 2,077,240
19 20 21 22 23 24 25	Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City	2,543,482 2,356,285 2,226,009 2,142,508 2,130,151 2,077,240 2,035,334
19 20 21 22 23 24 25 26	Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City Columbus	2,543,482 2,356,285 2,226,009 2,142,508 2,130,151 2,077,240 2,035,334 1,836,536
19 20 21 22 23 24 25 26 27 28 29	Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City Columbus Charlotte	2,543,482 2,356,285 2,226,009 2,142,508 2,130,151 2,077,240 2,035,334 1,836,536 1,758,038
19 20 21 22 23 24 25 26 27 28	Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City Columbus Charlotte Indianapolis	2,543,482 2,356,285 2,226,009 2,142,508 2,130,151 2,077,240 2,035,334 1,836,536 1,758,038 1,756,241
19 20 21 22 23 24 25 26 27 28 29	Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City Columbus Charlotte Indianapolis Austin	2,543,482 2,356,285 2,226,009 2,142,508 2,130,151 2,077,240 2,035,334 1,836,536 1,758,038 1,756,241 1,716,289
19 20 21 22 23 24 25 26 27 28 29 30	Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City Columbus Charlotte Indianapolis Austin Nashville Milwaukee Memphis	2,543,482 2,356,285 2,226,009 2,142,508 2,130,151 2,077,240 2,035,334 1,836,536 1,758,038 1,756,241 1,716,289 1,589,934 1,555,908 1,316,100
19 20 21 22 23 24 25 26 27 28 29 30 31	Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City Columbus Charlotte Indianapolis Austin Nashville Milwaukee Memphis Louisville	2,543,482 2,356,285 2,226,009 2,142,508 2,130,151 2,077,240 2,035,334 1,836,536 1,758,038 1,756,241 1,716,289 1,589,934 1,555,908 1,316,100 1,283,566
19 20 21 22 23 24 25 26 27 28 29 30 31 32	Denver Pittsburgh Portland San Antonio Cincinnati Cleveland Kansas City Columbus Charlotte Indianapolis Austin Nashville Milwaukee Memphis	2,543,482 2,356,285 2,226,009 2,142,508 2,130,151 2,077,240 2,035,334 1,836,536 1,758,038 1,756,241 1,716,289 1,589,934 1,555,908 1,316,100

Source: U.S. Census Bureau

POPULATION CHANGE By percent, 1990-200

By percent, 1990-2000

1	Austin	47.7
2	Phoenix	45.3
3	Atlanta	38.9
4	Dallas	31.5
5	Denver	30.0
6	Charlotte	29.0
7	Portland	26.6
8	Houston	25.8
9	Nashville	25.0
10	Salt Lake City	24.4
11	San Antonio	20.2
12	Seattle	18.8
13	Minneapolis	16.9
14	Washington DC	16.6
Ave	rage	16.5
15	Indianapolis	16.4
16	Miami	16.3
17	Columbus	14.5
18	Oklahoma City	13.0
19	Memphis	12.7
20	San Diego	12.6
21	Kansas City	12.2
22	Chicago	11.6
23	New York	9.0
24	Louisville	8.1
25	San Francisco	8.0
26	Cincinnati	7.9
27	Los Angeles	7.4
28	Baltimore	7.2
29	Boston	5.5
30	Milwaukee	4.8
31	St. Louis	4.5
32	Detroit	4.1
33	Philadelphia	3.6
34	Cleveland	2.2
35	Pittsburgh	-1.5

Source: U.S. Census Bureau

POPULATION CHANGE Percent change, 2000-2010

2000-2010			
1	Austin	35.6	
2	Charlotte	31.2	
3	Phoenix	27.9	
4	Houston	25.5	
5	San Antonio	24.6	
6	Atlanta	23.0	
7	Dallas	22.6	
8	Nashville	20.7	
9	Denver	15.9	
10	Washington D.C.	15.8	
11	Salt Lake City	15.6	
12	Portland	15.0	
13	Indianapolis	14.7	
14	Oklahoma City	14.1	
15	Columbus	13.4	
16	Seattle	12.7	
Ave	rage	12.0	
17	Miami	10.7	
18	Kansas City	10.4	
19	Louisville	10.2	
20	Minneapolis	10.0	
21	San Diego	9.6	
22	Memphis	8.9	
23	Baltimore	6.0	
24	Cincinnati	5.7	
25	San Francisco	4.8	
26	Philadelphia	4.8	
27	St. Louis	4.1	
28	Chicago	3.8	
29	Milwaukee	3.6	
30	Los Angeles	3.5	
31	Boston	3.4	
32	New York	3.0	
33	Pittsburgh	-3.0	
34	Cleveland	-3.3	
35	Detroit	-3.6	

Source: U.S. Census Bureau

The regions that have experienced the highest population gains have also seen the largest gains in net migration, particularly domestic migration. The regions with the largest populations have experienced some of the highest levels of international migration but were less likely to experience the highest levels of domestic migration, often resulting in low or negative net migration.

As a midsized region among its peers with a relatively small population increase, St. Louis follows this pattern. The region ranked below average on net migration in five of the six editions of *WWS*. The 2006 edition is the only one in which the region recorded a positive net migration rate with 22,000 more people moving into the region than moving out between 2000 and 2005.

By the end of the decade, the recorded net migration was again negative. Similar to other slow growing regions with a large population, St. Louis has a higher rate of international migration compared to domestic migration. Yet, the region's international migration is still not enough to make up for the loss in population due to domestic migration.

Net Migration St. Louis

1990: 24th 1996: 27th 1999: 27th 2002: 27th 2006: 21st 2011: 25th

NET INTERNATIONAL MIGRATION Percent of 2000 population,

2000-2009

1	Miami	10.1
2	Phoenix	6.5
3	Los Angeles	6.5
4	Washington D.C.	6.4
5	Dallas	6.2
6	San Francisco	6.2
7	Houston	6.1
8		5.9
9	Austin	5.2
10	Atlanta	4.8
11	Boston	4.3
12	Denver	4.3
13	Salt Lake City	4.2
	Seattle	4.2
15	Chicago	4.0
16	Portland	3.7
Avera	ige	3.6
17	Charlotte	3.6
18	San Diego	
19	Minneapolis	
20		2.8
21		2.5
22	Oklahoma City	
23	Philadelphia	
24	Detroit	2.1
25	Kansas City	1.9
26	San Antonio	1.8
27	Indianapolis	1.8
28	Milwaukee	1.8
29	Baltimore	1.7
30	Memphis	1.6
31	Louisville	1.4
32	Cleveland	1.3
33	Cincinnati	1.1
34		1.1
35		0.8

Source: U.S. Census Bureau

NET DOMESTIC MIGRATION Percent of

Percent of 2000 population, 2000-2009 Charlotte

1	Charlotte	18.2
2	Austin	17.7
3	Phoenix	16.2
4	San Antonio	10.2
5	Atlanta	9.6
6	Nashville	9.2
7	Portland	6.2
8	Dallas	5.9
9	Houston	5.1
10	Indianapolis	4.6
11	Oklahoma City	3.8
12	Louisville	2.9
13	Denver	2.8
14	Columbus	2.0
15	Kansas City	1.6
16	Seattle	1.4
Avera		0.9
17	Memphis	-0.7
18	Minneapolis	-0.8
19	Cincinnati	-0.9
20	Baltimore	-1.4
21	St. Louis	-1.6
22	Philadelphia	-2.0
23	Pittsburgh	-2.0
24	Washington D.C.	-2.3
25	Salt Lake City	-3.4
26	Con Diogo	-4.5
	San Diego	
27	Milwaukee	-4.8
27 28		-4.8 -5.3
27	Milwaukee Boston Miami	
27 28 29 30	Milwaukee Boston Miami Chicago	-5.3 -5.7 -6.0
27 28 29	Milwaukee Boston Miami	-5.3 -5.7 -6.0 -6.2
27 28 29 30	Milwaukee Boston Miami Chicago	-5.3 -5.7 -6.0
27 28 29 30 31	Milwaukee Boston Miami Chicago Cleveland	-5.3 -5.7 -6.0 -6.2
27 28 29 30 31 32	Milwaukee Boston Miami Chicago Cleveland Detroit	-5.3 -5.7 -6.0 -6.2 -8.1

Source: U.S. Census Bureau

NET MIGRATION Percent of 2000 population, 2000-2009

1	Austin	22.9
2	Phoenix	22.7
3	Charlotte	21.8
4	Atlanta	14.5
5	Dallas	12.2
6	San Antonio	12.0
7	Nashville	11.9
8	Houston	11.2
9	Portland	9.9
10	Denver	7.1
11	Indianapolis	6.4
12	Oklahoma City	5.9
13	Seattle	5.5
Aver	age	4.5
14	Columbus	4.4
15	Miami	4.4
16	Louisville	4.3
17	Washington D.C.	4.1
18	Kansas City	3.5
19	Minneapolis	2.1
20	Memphis	0.9
21	Salt Lake City	0.9
22	Baltimore	0.3
23	Cincinnati	0.2
24	Philadelphia	0.2
25	St. Louis	-0.5
26	Boston	-1.0
27	San Diego	-1.0
28	Pittsburgh	-1.2
29	Chicago	-2.0
30	San Francisco	-2.1
31	Milwaukee	-3.1
32	Los Angeles	-4.3
33	New York	-4.6
34	Cleveland	-4.9
35	Detroit	-6.0

Source: U.S. Census Bureau

Another theme that is apparent in the *WWS* publications is that the St. Louis region is not as diverse as many of its peer regions. The region is primarily white and African American with very small portions of the population being of other races and ethnicities. The region has seen an increase in the Asian and Hispanic populations yet they continue to comprise a very small portion of the population, 2.1 and 2.6 percent, respectively.

These indicators are closely related to the international immigration variable with larger regions having larger Asian and Hispanic populations; being more diverse. Most of the regions that have seen the largest population gains over the last 20 years—Austin, Phoenix, Houston, San Antonio, Dallas, and Denver—also have large Hispanic and

Latino populations. Washington D.C. is the only one of the regions in the top 10 for population increase to also have a large portion of its population be Asian as well. Not all of the regions with large population gains are as diverse. Charlotte, Atlanta, and Nashville are three regions that have seen large population gains but have below average Asian and Hispanic population proportions.

2010 St. Louis 75% White 18% Black 2% Asian 3% Hispanic

Peer Average 62% White 14% Black 5% Asian 16% Hispanic

POPULATION BY RACE

Asians as a percent of total population, 1996

τ	otal population,	1996
1	San Francisco	24.9
2	Los Angeles	12.9
3	San Diego	10.2
4	New York	8.4
5	Seattle	7.7
6	Washington D.C.	6.2
7	Houston	5.2
8	Portland	4.3
9	Chicago	4.3
Aver	age	3.9
10	Minneapolis	3.4
11	Dallas	3.4
12	Boston	3.4
13	Salt Lake City	3.0
14	Austin	3.0
15	Philadelphia	2.9
16	Denver	2.9
17	Atlanta	2.6
18	Baltimore	2.4
19	Phoenix	2.2
20	Oklahoma City	2.2
21	Columbus	1.9
22	Miami	1.8
23	Detroit	1.8
24	Milwaukee	1.7
25	San Antonio	1.6
26	Nashville	1.4
27	Kansas City	1.4
28	Charlotte	1.4
29	Cleveland	1.3
30	St. Louis	1.2
31	Memphis	1.1
32		1.0
33		1.0
34	Pittsburgh	0.9
35	Louisville	8.0

POPULATION BY ETHNICITY Hispanics as a percent of

Hispanics as a percent of total population, 1994

• • •	otai population,	.,,,
1	Miami	54.4
2	San Antonio	52.1
3	Los Angeles	43.0
4	San Diego	25.1
5	New York	24.7
6	Austin	24.3
7	Houston	24.2
8	Phoenix	19.5
9	San Francisco	17.2
10	Dallas	15.1
11	Denver	14.2
12	Chicago	13.6
Aver	age	11.2
13	Salt Lake City	7.3
14	Washington D.C.	6.8
15	Boston	5.1
16	Portland	4.7
17	Oklahoma City	4.6
18	Milwaukee	4.4
19	Philadelphia	4.3
20	Seattle	4.0
21	Kansas City	3.5
22	Atlanta	3.0
23	Cleveland	2.7
24	Detroit	2.3
25	Minneapolis	2.0
26	Baltimore	1.7
27	Charlotte	1.5
28	St. Louis	1.3
29	Nashville	1.1
30	Memphis	1.1
31	Indianapolis	1.1
32	Columbus	1.0
33	Louisville	0.8
34	Pittsburgh	0.7
35	Cincinnati	0.6

Source: U.S. Census Bureau

ASIAN POPULATION (Not Hispanic or Latino) Percent of total, 2010

1	San Francisco	22.9
2	Los Angeles	14.5
3	Seattle	11.3
4	San Diego	10.6
5	New York	9.8
6	Washington D.C.	9.2
7	Houston	6.5
8	Boston	6.4
9	Minneapolis	5.7
10	Portland	5.6
11	Chicago	5.6
12	Dallas	5.3
Aver	age	5.1
13	Philadelphia	4.9
14	Atlanta	4.8
15	Austin	4.7
16	Baltimore	4.5
17	Denver	3.6
18	Detroit	3.3
19	Phoenix	3.2
20	Charlotte	3.1
21	Columbus	3.1
22	Salt Lake City	3.0
23	Milwaukee	2.9
24	Oklahoma City	2.8
25	Nashville	2.3
26	Kansas City	2.2
27	Indianapolis	2.2
28	Miami	2.2
29	St. Louis	2.1
30	San Antonio	2.0
31	Cleveland	1.9
32	Cincinnati	1.9
33	Memphis	1.8
34	Pittsburgh	1.7
35	Louisville	1.5

Source: U.S. Census Bureau

HISPANIC AND LATINO POPULATION Percent of total, 2010

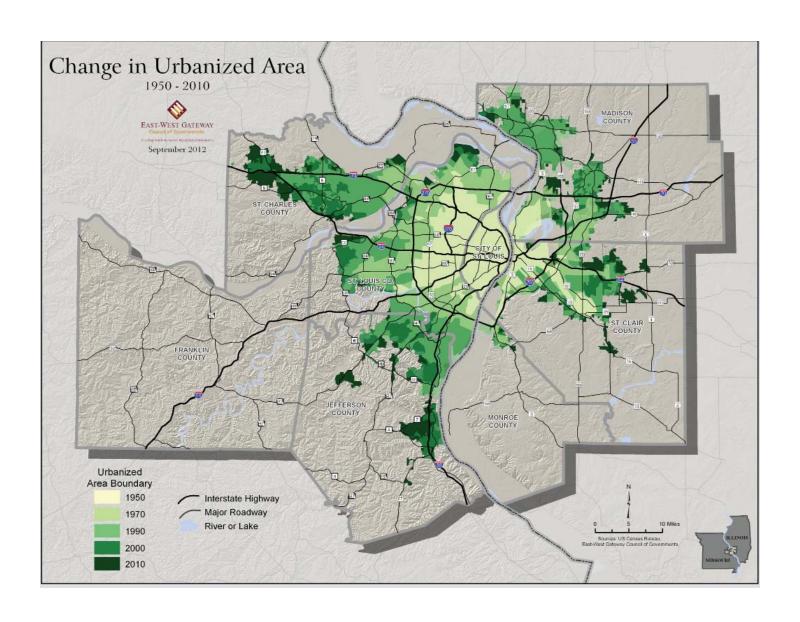
1	San Antonio	54.1
2	Los Angeles	44.4
3	Miami	41.6
4	Houston	35.3
5	San Diego	32.0
6	Austin	31.4
7	Phoenix	29.5
8	Dallas	27.5
9	New York	22.9
10	Denver	22.5
11	San Francisco	21.7
12	Chicago	20.7
13	Salt Lake City	16.6
Avera		15.7
14	Washington D.C.	13.8
15	Oklahoma City	11.3
16	Portland	10.9
17	Atlanta	10.4
18	Charlotte	9.8
19	Milwaukee	9.5
20	Boston	9.0
21	Seattle	9.0
22	Kansas City	8.2
23	Philadelphia	7.8
24	Nashville	6.6
25	Indianapolis	6.2
26	Minneapolis	5.4
27	Memphis	5.0
28	Cleveland	4.7
29	Baltimore	4.6
30	Louisville	3.9
31	Detroit	3.9
32	Columbus	3.6
33	Cincinnati	2.6
34	St. Louis	2.6
35	Pittsburgh	1.3

Source: U.S. Census Bureau

Source: U.S. Census Bureau

Population is More Dispersed

While the St. Louis region's population is not the largest and the population growth is relatively low, the region's geographic footprint is one of the largest among its peers. The St. Louis region's urbanized area from 1950 to 2010 is depicted in the map below. In 2010, St. Louis had the 5th largest land area at 8,649 square miles. This equates to a more dispersed population than many of our peer regions. St. Louis ranks 32nd for "largest city share of metro population" with 11.4 percent of the region's population living in the city of St. Louis. Most of the region's population growth has been in the outer counties with population loss in the core counties—city of St. Louis, St. Louis and St. Clair counties. Most of the regions that have seen large population gains over the last decade have also seen large increases in the population of their largest city, or urban core.



LARGEST CITY SHARE OF METRO POPULATION Percent of total, 2010*

1	Phoenix	14,573
2	Salt Lake City	9,539
3	Dallas	8,990
4	Houston	8,928
5	St. Louis	8,649
6	Denver	8,385
7	Atlanta	8,376
8	Kansas City	7,858
9	San Antonio	7,341
10	Chicago	7,212
11	New York	6,726
12	Portland	6,684
13	Minneapolis	6,063
14	Seattle	5,894
Avera	age	5,725
15	Nashville	5,687
16	Washington D.C.	5,626
17	Oklahoma City	5,518
18	Pittsburgh	5,280
19	Miami	5,126
20	Los Angeles	4,851
21	Philadelphia	4,630
22	Memphis	4,572
23	Cincinnati	4,398
24	Austin	4,224
25	San Diego	4,200
26	Louisville	4,135
27	Columbus	3,984
28	Detroit	3,914
29	Indianapolis	3,864
30	Boston	3,507
31	Charlotte	3,099
32	Baltimore	2,609
	Daitiiiioio	_,000
33	San Francisco	2,473
33 34		

LAND AREA In square miles, 2003 MSA boundaries

Source: U.S. Census Bureau, 2000; OMB, 2003

1	San Antonio	62.0
2	Memphis	49.2
3	Indianapolis	46.7
4	Louisville	46.5
5	Oklahoma City	46.3
6	Austin	46.1
7	New York	43.3
8	Columbus	42.9
9	San Diego	42.2
10	Charlotte	41.6
11	Milwaukee	38.2
12	Nashville	37.8
13	Houston	35.3
14	Phoenix	34.5
15	Kansas City	29.8
16	Los Angeles	29.6
Avera	ge	28.7
17	Chicago	28.5
18	Portland	26.2
19	Philadelphia	25.6
20	Denver	23.6
21	Baltimore	22.9
22	Minneapolis	20.4
23	Cleveland	19.1
24	Dallas	18.8
25	San Francisco	18.6
26	Seattle	17.7
27	Detroit	16.6
28	Salt Lake City	16.6
29	Cincinnati	13.9
30	Boston	13.6
31	Pittsburgh	13.0
32	St. Louis	11.4
33	Washington D.C.	10.8
34	Atlanta	8.0
35	Miami	7.2

Source: U.S. Census Bureau

CHANGE IN LARGEST CITY POPULATION

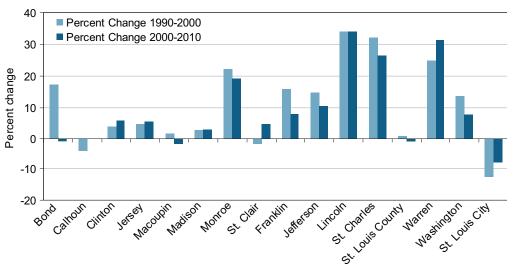
Percent change, 2000-2010*

1	Charlotte	35.2
2	Austin	20.4
3	San Antonio	16.0
4	Oklahoma City	14.6
5	Columbus	10.6
6	Portland	10.3
7	Nashville	10.2
8	Miami	10.2
9	Phoenix	9.4
10	Denver	8.2
11	Seattle	8.0
12	Louisville	7.8
13	Houston	7.5
14	San Diego	6.9
15	Washington D.C.	5.2
16	Indianapolis	4.9
17	Boston	4.8
18	San Francisco	3.7
Avera	ige	3.6
19	Kansas City	2.9
20	Los Angeles	2.6
21	Salt Lake City	2.6
22	New York	2.1
23	Atlanta	0.8
24	Dallas	0.8
25	Philadelphia	0.6
26	Minneapolis	-0.3
27	Milwaukee	-0.4
28	Memphis	-0.5
29	Baltimore	-4.6
30	Chicago	-6.9
31	St. Louis	-8.3
32	Pittsburgh	-8.6
33	Cincinnati	-10.4
34	Cleveland	-17.1
35	Detroit	-25.0

Source: U.S. Census Bureau

 * Kansas City includes Kansas City, MO and Kansas City, KS; Minneapolis also includes St. Paul

Population Change by County St. Louis MSA, 1990 to 2010



 ^{*} Kansas City includes Kansas City, MO and Kansas City, KS; Minneapolis also includes St. Paul

Aging Faster

The median age for the nation and the St. Louis region have steadily increased with the St. Louis region aging faster. In 1990, St. Louis ranked 14th with a median age of 34.4. In 2010, the median age for the region had increased to 37.9 and the ranking had moved up to 8th. From 1990 to 2010, the average median age for the peer regions increased less (2.3 years) than for the nation as a whole (4.3 years) and less than half that of the St. Louis region (5.0 years).

Most of the regions with the largest increases in employment over the last decade also have the lowest median ages—Austin, San Antonio, Houston, Salt Lake City, Phoenix, Oklahoma City and Dallas. The flip of this is also true with many of the regions with the oldest median ages having some of the largest decreases in employment—Detroit, Cleveland, San Francisco, Louisville, Boston and St. Louis. Is the younger median age attracting businesses or are jobs attracting a labor force?

Median Age, 2010

US: 37.2 St. Louis: 38.2

U.S. Expected Growth 2010 to 2040

Working Age Population: 16.8% 65+ Population: 75%

MEDIAN AGE 1990

4 0:44	
1 Pittsburgh	38.2
2 San Francisco	37.0
3 Cleveland	36.0
4 Louisville	35.5
5 Miami	35.2
6 Portland	35.2
7 Philadelphia	35.2
8 Baltimore	34.9
9 Boston	34.9
10 New York	34.8
11 Seattle	34.8
12 Denver	34.8
13 Detroit	34.7
14 St. Louis	34.4
15 Milwaukee	34.4
16 Kansas City	34.4
17 Charlotte	34.1
18 Indianapolis	34.1
19 Cincinnati	34.0
20 Washington D.C.	33.9
Average	33.8
21 Phoenix	33.7
22 Nashville	33.7
23 Chicago	33.5
24 Minneapolis	33.4
25 Oklahoma City	33.2
26 Columbus	33.0
27 Atlanta	32.8
28 Memphis	32.4
29 San Diego	32.3
30 Dallas	32.1
31 San Antonio	32.0
32 Houston	31.8
33 Los Angeles	31.5
33 Los Angeles 34 Austin	30.8

Source: 1990 Census

MEDIAN AGE

1	Pittsburgh	40.0
2	Cleveland	37.3
2	San Francisco	37.3
4	Louisville	36.5
5	Philadelphia	36.4
6	Boston	36.3
6	Baltimore	36.3
8	St. Louis	36.0
9	Miami	35.6
10	Seattle	35.5
10	Detroit	35.5
12	Milwaukee	35.4
13	Kansas City	35.2
14	Cincinnati	35.1
15	Washington D.C.	34.9
16	Portland	34.8
17	Indianapolis	34.6
17	New York	34.6
19	Nashville	34.5
Avera	ige	34.5
20	Charlotte	34.3
21	Minneapolis	34.2
22	Oklahoma City	34.1
22	Denver	34.1
24	Chicago	33.7
25	Columbus	33.6
26	Memphis	33.2
26	San Diego	33.2
26	Phoenix	33.2
29	Atlanta	32.9
30	San Antonio	32.7
31	Los Angeles	32.0
32	Dallas	31.8
33	Houston	31.6
34	Austin	30.9
35	Salt Lake City	28.6

Source: 2000 Census

MEDIAN AGE 2005

1	Pittsburgh	41.7
2	Cleveland	39.0
3	Miami	38.6
4	San Francisco	38.0
5	Boston	37.9
5	Philadelphia	37.9
7	Louisville	37.7
8	Baltimore	37.5
9	St. Louis	37.3
10	New York	37.2
11	Milwaukee	37.1
12	Detroit	36.9
13	Seattle	36.8
14	Cincinnati	36.4
15	Nashville	36.2
16	Kansas City	36.1
17	Washington DC	36.0
Averag	ge	35.8
18	Minneapolis	35.8
19	Portland	35.7
20	Oklahoma City	35.1
21	Chicago	35.0
21	Indianapolis	35.0
23	Charlotte	34.9
23	Columbus	34.9
25	Memphis	34.7
26	Denver	34.6
27	San Diego	34.4
28	Atlanta	34.1
29	Los Angeles	34.0
30	San Antonio	33.8
31	Phoenix	33.5
32	Dallas	32.9
32	Houston	32.9
34	Austin	32.5
35	Salt Lake City	30.2

Source: American Community Survey, U.S. Census Bureau

MEDIAN AGE

	2007	
1	Pittsburgh	42.3
2	Cleveland	40.2
3	Miami	39.2
4	Detroit	38.7
5	Boston	38.4
6	San Francisco	38.2
7	Philadelphia	38.0
8	St. Louis	37.9
9	Baltimore	37.8
10	Louisville	37.8
11	New York	37.8
12	Milwaukee	37.0
13	Cincinnati	36.9
14	Seattle	36.5
15	Portland	36.4
16	Kansas City	36.2
17	Washington D.C.	36.1
Aver	age	36.1
18	Minneapolis	36.0
19	Nashville	35.5
20	Chicago	35.4
21	Denver	35.4
22	Indianapolis	35.4
23	Charlotte	35.1
24	Memphis	34.8
25	Columbus	34.7
26	San Diego	34.7
27	Los Angeles	34.6
28	Atlanta	34.4
29	Oklahoma City	34.2
30	Phoenix	33.7
31	San Antonio	33.7
32	Dallas	33.0
33	Houston	32.9
34	Austin	32.5
35	Salt Lake City	30.9

Source: American Community Survey, U.S. Census Bureau

Economic Vitality

Despite its steep loss in manufacturing jobs, the St. Louis region has maintained a large number of jobs in the manufacturing sector, has seen increases in the health care and financial industries and did not feel the effects of the recession as much as many of our peer regions. Positive aspects of the region's economy also include the region's low cost of living and the region is largely considered affordable.

Decreasing Employment

Whether jobs follow people or people follow jobs, the regions that have seen the largest increases in population have also seen the largest increases in employment. These high growth areas are mostly in the Sunbelt region with the three largest employment gainers in Texas. Like most of the peer regions, the St. Louis region saw employment gains in the 1980's and 1990's but saw a decrease in the last decade. St. Louis ranked 19th (of 30) in employment growth from 1980 to 1989, 24th from 1990 to 1996, 34th from 1996 to 2000 and 26th from 2000 to 2010. The Change in Employment graph uses Phoenix as an example

PERCENT GROWTH

IN JOBS 1980-1989

1	Phoenix	56.0
2	Atlanta	51.6
3	Washington DC	38.6
4	Nashville	38.0
5	Seattle	38.0
6	Dallas	36.1
7	Columbus	27.8
8	Indianapolis	25.9
9	Baltimore	24.9
10	Minneapolis	24.3
11	Memphis	23.2
Avera	ige	23.2
12	Boston	22.6
13	Miami	22.4
14		22.2
15	Cincinnati	22.1
16	Los Angeles	21.5
17	Portland	21.3
18	Denver	20.9
19	St. Louis	19.9
20	Philadelphia	18.3
21	Louisville	17.3
22	San Francisco	16.4
23	Detroit	15.7
24	Milwaukee	14.1
25	Chicago	13.9
26	Houston	12.5
27	New York	11.4
28	Oklahoma City	10.3
29	Cleveland	6.5
30	Pittsburgh	3.0

Source: Bureau of Economic Analysis

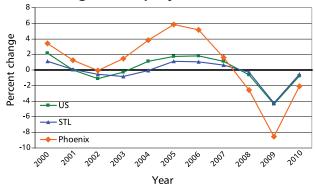
JOB GROWTH Percent increase in jobs, 1996-2000

1	Austin	22.8
2	Phoenix	19.2
3	Dallas	17.7
4	Denver	17.0
5	Atlanta	16.3
6	San Diego	16.1
7	Houston	15.4
8	Charlotte	14.6
9	Seattle	14.3
10	San Francisco	13.1
11	Nashville	12.9
12	Salt Lake City	12.5
13	San Antonio	12.4
13	Washington D.C.	12.4
Avera	ge	11.5
15	Columbus	11.4
16	Portland	11.1
17	Indianapolis	10.7
18	New York	10.6
19	Kansas City	10.2
19	Boston	10.2
21	Minneapolis	10.1
22	Miami	9.9
22	Oklahoma City	9.9
22	Memphis	9.6
25	Baltimore	9.0
26	Louisville	8.9
27	Philadelphia	8.4
28	Cincinnati	8.3
29	Chicago	7.9
29	Los Angeles	7.9
31	Detroit	7.8
32	Milwaukee	7.0
33	Pittsburgh	6.0
34	St. Louis	5.9
35	Cleveland	5.8

Source: Bureau of Economic Analysis

of a boom and bust region and compares the St. Louis region's change in employment to that of Phoenix and the nation. While St. Louis and the U.S. as a whole saw growth in mid-decade and a drop in employment when the recession hit, neither was as dramatic as was seen in Phoenix.

Change in Employment, 2000-2010



13.9

CHANGE IN

CHANGE IN EMPLOYMENT Percent change, 2000-2010

1 Austin

1_	Austin	13.9
2	San Antonio	12.9
3	Houston	12.4
4	Washington D.C.	10.7
5	Salt Lake City	7.4
6	Phoenix	6.9
7	Nashville	5.0
8	Charlotte	4.4
9	Oklahoma City	3.8
10	Dallas	3.7
11	San Diego	2.2
12	Indianapolis	1.9
13	Baltimore	1.7
14	Miami	1.3
Avera		-0.4
15	Seattle	-0.6
16	Portland	-0.8
17	New York	-1.2
18	Columbus	-1.2
19	Atlanta	-1.3
20	Denver	-1.7
21	Kansas City	-1.7
22	Philadelphia	-1.7
23	Pittsburgh	-2.0
24	Minneapolis	-3.4
25	Cincinnati	-3.5
26	St. Louis	-3.6
27	Boston	-4.4
28	Louisville	-4.8
29	Memphis	-5.9
30	Los Angeles	-6.2
31	Milwaukee	-6.9
32	Chicago	-7.1
33	San Francisco	-11.4
34	Cleveland	-12.7
35	Detroit	-21.4

	EMPLOYMENT Percent change, 2007-2010
1	Austin
2	San Antonio

	2007-2010	
1	Austin	1.2
2	San Antonio	0.8
3	Houston	-0.7
4	Washington D.C.	-0.9
5	Pittsburgh	-2.0
6	Oklahoma City	-2.2
7	Boston	-2.4
8	Dallas	-2.6
9	New York	-3.2
10	Baltimore	-3.5
11	Nashville	-3.9
12	Denver	-4.0
13	Philadelphia	-4.0
14	Columbus	-4.1
15	Salt Lake City	-4.8
16	Kansas City	-4.9
17	St. Louis	-5.0
18	Indianapolis	-5.1
Avera		-5.2
19	Louisville	-5.4
20	Milwaukee	-5.8
21	Minneapolis	-5.9
22	Seattle	-6.0
23	Cincinnati	-6.3
24	Portland	-6.7
25	San Diego	-6.8
26	Chicago	-6.8
27	Charlotte	-6.9
28	San Francisco	-7.5
29	Cleveland	-7.6
30	Atlanta	-7.9
31	Memphis	-8.3
32	Los Angeles	-9.2
33	Miami	-9.6
34	Detroit	-11.7
35		
33	Phoenix	-12.0

Source: Bureau of Labor Statistics, Current **Employment Statistics**

Decline in Manufacturing Employment

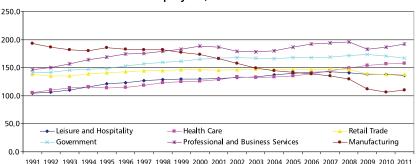
The main reason the St. Louis region ranks poorly on the employment variables is due to the large portion of the region's employment that was, and continues to be, manufacturing. Manufacturing was the largest employment sector in the early 1990's before it started steadily declining. From 1990 to 2010, manufacturing employment declined 50 percent in the St. Louis region but remains one of the region's top employment sectors. All of the peer regions have seen a decline in manufacturing employment but this decrease has not had as dramatic of an impact on those regions that were not as reliant on the manufacturing sector as St. Louis was.

The decline in manufacturing jobs is not only problematic because of the size of the industry in the region but also because of the types of jobs the sector provides. Historically, manufacturing jobs have provided a wage that would support

a family along with health care and retirement benefits while the same is not true of many of the service sector jobs that have replaced them.

On the Six Largest Industries chart the growth of a variety of service sector jobs can be seen—waste management, accommodation and food services, and leisure and hospitality. There has also been growth in some typically good paying sectors such as health care and education services.

Six Largest Industries, St. Louis MSA Employees, in thousands



CHANGE IN MANUFACTURING EMPLOYMENT

Percent increase in jobs, 2001-2004

			_ '
	19962000		2
1	Austin	24.0	3
2	San Diego	9.8	4
3	San Antonio	6.6	5
3	Phoenix	6.6	6
5 5	Dallas	5.4	7
5	Houston	5.4	8
7	Portland	3.9	9
8	Oklahoma City	3.2	9
9	Detroit	3.1	11
10	Atlanta	3.0	12
11	Columbus	2.6	13
12	Indianapolis	2.4	14
13	Pittsburgh	2.1	15
13	Seattle	2.1	16
15	Salt Lake City	1.3	17
16	Minneapolis	0.8	18
Ave	rage	0.5	Aver
17	Denver	0.3	19
18	Cincinnati	0.0	20
19	Nashville	-0.5	20
20	Louisville	-0.7	22
21	Milwaukee	-1.1	23
22	Memphis	-1.2	24
23	Boston	-1.8	25
24	Cleveland	-2.2	26
25	Philadelphia	-2.3	27
26	Kansas City	-2.5	28
27	Los Angeles	-2.8	29
28	Baltimore	-3.7	30
28	Chicago	-3.7	31
30	San Francisco	-5.9	32
31	St. Louis	-8.1	33
32		-8.8	34
33	New York	-9.0	
34	Miami	-10.9	

CHANGE IN

MANUFACTURING

EMPLOYMENT

Source: Bureau of Labor Statistics, Current Employment Statistics

	2001-2004	
1	Kansas City	-3.5
2	Nashville	-4.4
3	Salt Lake City	-5.7
4	Indianapolis	-6.8
5	Denver	-7.2
6	Philadelphia	-8.2
7	Memphis	-9.3
8	Minneapolis	-9.9
9	Cincinnati	-10.3
9	Houston	-10.3
11	Atlanta	-10.4
12	Dallas	-11.1
13	Milwaukee	-11.3
14	St. Louis	-11.4
15	Louisville	-11.9
16	San Diego	-12.1
17	Portland	-12.3
18	Phoenix	-12.9
Aver	age	-13.6
19	Columbus	-14.5
20	San Antonio	-14.6
20	San Francisco	-14.6
22	Los Angeles	-14.8
23	Chicago	-14.9
24	New York	-15.4
25	Baltimore	-16.3
26	Pittsburgh	-16.4
27	Miami	-16.5
28	Charlotte	-17.9
29	Detroit	-18.1
30	Seattle	-18.9
31	Oklahoma City	-20.1
32	Boston	-20.3
33	Austin	-23.9
34	Cleveland	-37.3

Source: Bureau of Economic Analysis

MANUFACTURING EMPLOYMENT Percent change, 2001-2009

1	Houston	-1.6
2	Salt Lake City	-4.5
3	Kansas City	-14.4
4	Seattle	-15.1
5	Denver	-17.5
6	San Antonio	-18.3
7	San Diego	-19.5
8	Portland	-19.9
9	Dallas	-20.3
10	Minneapolis	-20.5
11	Memphis	-20.5
12	Indianapolis	-21.7
13	Cincinnati	-23.9
14	Phoenix	-24.5
15	Milwaukee	-24.6
16	Atlanta	-25.1
Avei	age	-25.2
17	San Francisco	-26.9
18	Nashville	-27.2
19	Pittsburgh	-27.5
20	Louisville	-28.1
21	Chicago	-29.0
22	Columbus	-29.2
23	Baltimore	-29.3
24	St. Louis	-29.8
25	Los Angeles	-29.9
26	Boston	-30.7
27	Miami	-31.0
28	Oklahoma City	-32.3
29	Cleveland	-32.9
30	Philadelphia	-33.3
31	Austin	-33.4
32	Charlotte	-33.5
33	New York	-34.2
34	Detroit	-47.9
0-1	Dottoit	17.0

Source: Bureau of Economic Analysis

St. Louis Manufacturing

7% of Total Employment

6th Largest Sector

\$80,3888 Average Pay

50% Decrease in Employment from 1990 to 2010 The earnings per job in the St. Louis region was below the peer region average in 1989 (ranking 15th of 30) and has slipped since to 23rd (of 35) in 2009. In real dollars, the average earnings per job in the St. Louis region has increased from \$42,486 in 1989 (in 2009 dollars) to \$45,553 in 2009, a seven percent increase. The average earnings per job for the peer regions increased 12 percent over the same time period, indicating the St. Louis region is not keeping up with its peers.

The St. Louis region ranks better when income is adjusted for cost of living. In 1994, the St. Louis region ranked 3rd with an adjusted median household income of \$24,227 (or \$35,071 in 2009 dollars). In 2009, the region's ranking fell to 6th, although in absolute numbers, the region's adjusted median household income increased 65 percent to \$57,755.

AVERAGE EARNINGS PER JOB

	1989	
1	New York	34,061
2	San Francisco	30,748
3	Washington D.C.	28,960
4	Detroit	28,755
5	Los Angeles	28,523
6	Chicago	28,452
7	Boston	27,767
8	Philadelphia	26,872
9	Houston	26,588
10	Dallas	26,499
11	Cleveland	25,549
12	Seattle	25,473
Avei	rage	25,194
13	Minneapolis	25,159
14	Atlanta	24,871
15	St. Louis	24,557
16	St. Louis Pittsburgh	24,557 24,296
16	Pittsburgh Denver Baltimore	24,296
16 17 18 19	Pittsburgh Denver	24,296 24,286
16 17 18	Pittsburgh Denver Baltimore Cincinnati Kansas City	24,296 24,286 23,815
16 17 18 19 20 21	Pittsburgh Denver Baltimore Cincinnati Kansas City Indianapolis	24,296 24,286 23,815 23,413
16 17 18 19 20	Pittsburgh Denver Baltimore Cincinnati Kansas City	24,296 24,286 23,815 23,413 23,360
16 17 18 19 20 21	Pittsburgh Denver Baltimore Cincinnati Kansas City Indianapolis Milwaukee Portland	24,296 24,286 23,815 23,413 23,360 23,327
16 17 18 19 20 21 22 23 24	Pittsburgh Denver Baltimore Cincinnati Kansas City Indianapolis Milwaukee Portland Miami	24,296 24,286 23,815 23,413 23,360 23,327 23,206
16 17 18 19 20 21 22 23	Pittsburgh Denver Baltimore Cincinnati Kansas City Indianapolis Milwaukee Portland Miami Columbus	24,296 24,286 23,815 23,413 23,360 23,327 23,206 22,772
16 17 18 19 20 21 22 23 24	Pittsburgh Denver Baltimore Cincinnati Kansas City Indianapolis Milwaukee Portland Miami	24,296 24,286 23,815 23,413 23,360 23,327 23,206 22,772 22,761
16 17 18 19 20 21 22 23 24 25 26 27	Pittsburgh Denver Baltimore Cincinnati Kansas City Indianapolis Milwaukee Portland Miami Columbus Nashville Memphis	24,296 24,286 23,815 23,413 23,360 23,327 23,206 22,772 22,761 22,315 22,310 22,310
16 17 18 19 20 21 22 23 24 25 26	Pittsburgh Denver Baltimore Cincinnati Kansas City Indianapolis Milwaukee Portland Miami Columbus Nashville	24,296 24,286 23,815 23,413 23,360 23,327 23,206 22,772 22,761 22,315 22,310
16 17 18 19 20 21 22 23 24 25 26 27	Pittsburgh Denver Baltimore Cincinnati Kansas City Indianapolis Milwaukee Portland Miami Columbus Nashville Memphis	24,296 24,286 23,815 23,413 23,360 23,327 23,206 22,772 22,761 22,315 22,310 22,310

Source: Bureau of Economic Analysis

EARNINGS PER JOB In dollars, 2009

	donai 3/ 20	
1	San Francisco	66,683
2	Washington D.C.	64,601
3	New York	63,043
4	Boston	59,763
5	Seattle	54,864
6	Houston	54,282
7	Los Angeles	52,915
8	Denver	52,634
9	Chicago	52,318
10	Philadelphia	51,808
11	Baltimore	51,528
12	San Diego	50,719
13	Dallas	49,856
14	Minneapolis	49,773
15	Atlanta	49,649
Aver	age	48,984
16	Detroit	48,546
17	Charlotte	47,513
18	Austin	47,054
19	Portland	46,164
20	Miami	46,016
21	Phoenix	45,959
22	Kansas City	45,641
23	St. Louis	45,553
24	Milwaukee	45,246
25	Cincinnati	44,537
26	Columbus	44,160
27	Cleveland	44,103
28	Pittsburgh	43,986
29	Indianapolis	43,968
30	Nashville	43,737
31	Memphis	43,204
32	Salt Lake City	43,073
33	Louisville	40,928
34	Oklahoma City	40,334
35	San Antonio	40,297

Source: Bureau of Economic Analysis The regions that saw an increase in employment over the past decade are dispersed in their rankings on both earnings per job and purchasing power with more of the top employment gainers ranking toward the top on purchasing power than on earnings per job. Six of the regions with the highest employment gains rank in the top 10 on purchasing power while only two of the top 10 employment gainers rank that well on the earnings per job variable.

INCOME ADJUSTED FOR COST OF LIVING, 1994

1	Nashville	25,306
2	Minneapolis	24,289
3	St. Louis	24,227
4	Indianapolis	24,161
5	Louisville	24,154
6	Atlanta	24,034
7	Dallas	23,796
8	Houston	23,704
9	Washington D.C.	23,317
10	Denver	23,265
11	Kansas City	23,250
12	Baltimore	23,041
13	Charlotte	22,851
14	Cincinnati	22,790
15	Seattle	22,570
16	Milwaukee	22,369
17	Cleveland	22,346
18	Memphis	22,096
19	San Francisco	21,758
Aver	age	21,487
20	Detroit	21,309
21	Chicago	21,264
22	Portland	21,250
23	Columbus	21,224
24	Austin	20,598
25	Phoenix	20,502
26	Oklahoma City	20,470
27	Pittsburgh	20,077
28	Philadelphia	19,556
29	San Antonio	19,149
30	Boston	19,071
31	Miami	18,624
32	Salt Lake City	18,270
33	Los Angeles	17,483
34	San Diego	17,246
35	New York	12,634

Source: Bureau of Economic Analysis and American Chamber of Commerce Researchers Association

PURCHASING POWER Median household income, 2009 Adjusted for cost of living

Ad	justed for cost of	iiving
1	Washington D.C.	62,375
2	Houston	60,503
3	Dallas	59,077
4	Atlanta	58,920
5	Austin	58,834
6	St. Louis	57,755
7	Nashville	57,564
8	Denver	57,344
9	Salt Lake City	57,138
10	Cincinnati	57,046
11	Kansas City	56,971
12	Minneapolis	56,832
13	Indianapolis	56,768
14	Charlotte	54,949
15	Columbus	54,129
16	Seattle	53,885
17	Baltimore	53,821
18	Phoenix	53,654
19	Boston	52,967
20	Chicago	52,950
Ave	rage	52,626
21	Louisville	52,217
22	Milwaukee	51,407
23	San Antonio	50,479
24	Pittsburgh	50,434
25	Oklahoma City	49,906
26	Portland	49,797
27	Memphis	49,639
28	Philadelphia	48,798
29	Detroit	47,959
30	San Francisco	47,935
31	Cleveland	45,577
32	San Diego	45,117
33	Miami	41,655
34	Los Angeles	40,807
35	New York	36,692

Source: American Community Survey, U.S. Census Bureau; ACCRA Cost of Living Index The St. Louis region is typically promoted as affordable. This is in part due to the low cost of living discussed previously but also because of the cost of housing. As seen in the Housing Affordability 1991 and Housing Opportunity 2010 tables, a large percent of the homes in the region were and continue to be affordable to a median income earning household. In 1991, 66.7 percent (ranking 13th of 30) of homes were affordable to such a household and in 2010 the percent rose to 84.3 (ranking 7th of 33).

Another way to look at housing affordability is to look at what percent of households are paying more than 35 percent² of their income on housing. In 1989, 16.6 percent of households in the St. Louis region were paying

HOUSING AFFORDABILITY INDEX 1991

1	Kansas City	88.7
2	Milwaukee	84.9
3	Oklahoma City	83.3
4	Detroit	82.4
5	Minneapolis	81.3
6	Louisville	74.4
7	Cincinnati	74.2
8	Denver	72.6
9	Columbus	72.3
10	Cleveland	69.5
11	Portland	67.4
12	Nashville	67.2
13	St. Louis	66.7
14	Phoenix	66.5
14	Dallas	66.5
16	Atlanta	65.9
17	Indianapolis	65.8
18	Houston	63.5
19	Miami	62.2
Avera	ige	66.7
20	Pittsburgh	61.6
21	Chicago	61.0
22	Baltimore	60.6
23	Memphis	58.6
24	Washington D.C.	56.5
25	Philadelphia	55.4
26	Boston	43.8
27	Seattle	40.9
28	New York	21.9
29	Los Angeles	12.9
30	San Francisco	9.2

Source: National Association of Home Builders

HOUSING OPPORTUNITY Percent of homes

Percent of homes affordable for family earning median income, 2010

	2010	
1	Indianapolis	93.9
2	Detroit	91.5
3	Cleveland	87.0
4	Cincinnati	86.6
5	Minneapolis	85.2
6	Columbus	84.9
7	St. Louis	84.3
8	Pittsburgh	84.1
9	Oklahoma City	83.5
10	Louisville	82.3
11	Phoenix	82.3
12	Milwaukee	81.4
13	Atlanta	80.2
14	Memphis	79.2
15	Dallas	78.4
16	Austin	77.8
17	Houston	76.7
18	Salt Lake City	75.1
19	Charlotte	75.1
20	San Antonio	74.7
Avera		74.4
21	Washington D.C.	74.1
22	Baltimore	74.0
23	Denver	73.5
24	Philadelphia	72.4
25	Miami	72.1
26	Chicago	69.8
27	Portland	68.1
28	Boston	66.1
29	Seattle	64.1
30	San Francisco	52.8
31	San Diego	48.1
32	New York	39.1
33	Los Angeles	38.0

Source: National Association of Home Builders/Wells Fargo more than what was considered affordable. In recent years, the Center for Neighborhood Technology's (CNT) alternate definition of affordability has become commonly used. This definition sets the threshold at 45 percent of household income and factors in housing as well as transportation costs. CNT recognized that as metropolitan regions expand and become more dispersed, people can often find less expensive housing further from job centers but their transportation costs increase. Therefore, to discuss affordability, both costs should be factored. Using this definition, the St. Louis region's ranking comes in below average among its peers with the average housing plus transportation costs for the region comprising 48 percent of the median household income.

PERCENT OF HOUSHOLDS PAYING MORE THAN 35% OF INCOME FOR HOUSING, 1989

1	Indianapolis	15.3
2	Louisville	15.7
3	Kansas City	16.2
4	St. Louis	16.6
5	Cincinnati	16.9
6	Columbus	17.4
7	Pittsburgh	17.6
8	Minneapolis	17.7
9	Baltimore	17.9
10	Nashville	18.4
11	Houston	18.7
12	Oklahoma City	18.8
13	Cleveland	18.9
14	Seattle	18.9
15	Portland	19.0
16	Detroit	19.3
17	Dallas	19.4
18	Milwaukee	19.8
19	Washington D.C.	20.1
20	Atlanta	20.2
21	Denver	20.5
Aver		20.5
22	Philadelphia	20.8
23	Memphis	21.5
24	Chicago	21.9
25	Phoenix	23.2
26	Boston	24.0
27	San Francisco	28.9
28	New York	29.6
29	Los Angeles	31.2
30	Miami	31.3

Source: US Census Bureau

HOUSING PLUS TRANSPORTATION AFFORDABILITY

Transportation and housing costs as a percent of median household income, 2008

no	usenoia income	, 2006
1	Miami	59.6
2	Memphis	55.4
3	San Diego	54.7
4	Los Angeles	54.2
5	Nashville	51.2
6	Phoenix	51.0
7	Detroit	50.7
8	Cleveland	49.9
9	Seattle	49.7
10	Charlotte	49.6
11	Chicago	49.5
12	Portland	49.3
13	Atlanta	49.2
14	San Francisco	49.2
15	Dallas	49.1
16	Milwaukee	49.0
Aver	age	49.0
17	San Antonio	48.9
18	Oklahoma City	48.7
19	Indianapolis	48.7
20	St. Louis	48.1
21	Austin	48.1
22	Louisville	48.0
23	Cincinnati	48.0
24	Pittsburgh	47.9
25	Columbus	47.5
26	Denver	47.4
27	New York	46.9
28	Kansas City	46.8
29	Philadelphia	46.7
30	Houston	46.3
31	Salt Lake City	45.6
32	Baltimore	45.6
33	Boston	45.5
34	Minneapolis	45.5
35	Washington D.C.	43.1

Source: Center for Neighborhood Technology; American Community Survey, U.S. Census Bureau The regions with the largest increases in population and employment as well as the most populated regions vary in their ranking on the H+T index with no apparent correlation between this affordability variable and growth. The top 10 population and employment gainers rank in the middle of the peer regions on the Housing Opportunity index with 73 to 84 percent of homes affordable to a family earning the median income in their regions. The most populated regions tend to be less affordable with more of the regions ranking higher and 38 to 80 percent of homes affordable to a family earning the median income.

ADULTS WITH ADVANCED DEGREES

Percent persons age 25 and older with master's, professional, or doctorate degrees, 2009

1	Washington D.C.	22.6
2	Boston	18.3
3	San Francisco	16.9
4	Baltimore	14.8
5	New York	14.7
6	Austin	13.1
7	Seattle	13.0
8	Chicago	13.0
9	Denver	12.9
10	Phoenix	12.9
11	San Diego	12.6
12	Minneapolis	12.4
	Portland	12.0
14	Atlanta	11.9
Avera	age	11.8
	St. Louis	11.6
16	Kansas City	11.5
17	Columbus	11.0
18	Milwaukee	10.6
19	Philadelphia	10.6
20	Cincinnati	10.5
21	Cleveland	
22	Indianapolis	10.3
23	Los Angeles	10.3
24	Detroit	10.3
25	Miami	10.1
26	Nashville	10.1
27	Charlotte	10.1
28	Dallas	9.8
29	Salt Lake City	9.7
30	Pittsburgh	9.7
31	Louisville	9.6
32	Houston	9.5
33	San Antonio	9.1
34	Oklahoma City	9.0
35	Memphis	8.7

CHANGE IN PERCENT OF ADULTS WITH A BACHELOR'S DEGREE OR HIGHER

In percentage points, adults age 25 years or older, 2000-2009

1	Baltimore	5.5
2	Nashville	5.3
3	New York	5.3
4	Boston	5.2
5	Portland	5.1
6	San Diego	5.0
7	Columbus	5.0
8	Washington D.C.	4.8
9	Kansas City	4.7
10	Seattle	4.7
11	San Francisco	4.7
12	Philadelphia	4.6
13	Indianapolis	4.6
14	Chicago	4.6
15	St. Louis	4.6
16	Pittsburgh	4.4
17	Charlotte	4.4
18	Minneapolis	4.3
19	Los Angeles	3.9
20	Milwaukee	3.9
Avera	age	3.9
21	Miami	3.7
22	Cincinnati	3.7
23	Louisville	3.7
24	Denver	3.5
25	Oklahoma City	3.1
26	Detroit	3.1
27	Cleveland	3.0
28	Atlanta	2.7
29	San Antonio	2.7
30	Memphis	2.2
31	Phoenix	2.2
32	Salt Lake City	2.1
33	Austin	2.0
34	Houston	1.5
35	Dallas	1.5

Source: American Community Survey, U.S. Census Bureau

Education & Youth

On education there is an overall trend of a larger portion of the U.S. population being more educated with more high school graduates and more college degrees. St. Louis has maintained a fairly average ranking on many of the education variables and has seen some improvement on several of the others over the past two decades.

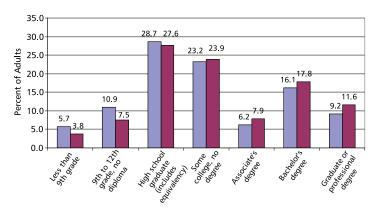
Increasing Education Levels

St. Louis ranks 15th on both the Adults with Advanced Degrees variable and the Change in Percent of Adults with a Bachelor's Degree or Higher. For adults with advanced degrees, the region is just below average with 11.6 percent of adults having a master's, professional or doctorate degree. Washington D.C., Boston and San Francisco rank the highest on this variable with over 15 percent of adults having an advanced degree. Seven of the 10 regions with the largest employment gains over the past decade rank in the bottom 10 on this variable, with some of the lowest percent of adults with advanced degrees.

On the change in percent of adults with a bachelor's degree or higher, St. Louis is above average with 4.6 percent growth over the last decade. Many of the regions with the fastest growing populations and the largest increases in employment are experiencing some of the slowest growth in adults with bachelor's degrees. They rank toward the bottom with less than half the growth rate of the St. Louis region.

The Highest Level of Education Attainment graph below shows the percent of adults in St. Louis with varying levels of education for 2000 and 2009. All four levels of college education increased while the percent of adults with either no high school diploma or high school as the highest level of education both decreased.

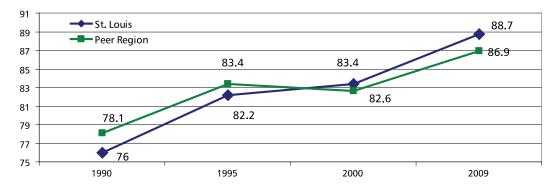
Highest Level of Education Attainment, St. Louis Region



Source: American Community Survey, U.S. Census Bureau On the Adults with a High School Diploma or Equivalent graph, St. Louis is the blue line and the peer region average is the green line. St. Louis has increased the percent of high school graduates from 76 percent in 1990 to 89 percent in 2009; also improving the region's ranking from 17th to 12th. Between 1995 and 2000 the percent of adults with a high school diploma in St. Louis rose above the peer average. In 2009, the region stood just above the average with 88.7 percent of adults having a high school diploma and the peer average just below that at 86.9 percent.

The Adults without a High School Diploma table shows the flip of this—the percent of adults without a high school diploma. St. Louis ranks below average with 11.3 percent of adults having no high school diploma. The region is doing much better than Los Angeles, Houston, Dallas and Memphis, regions that all have over 15 percent of adults with no high school diploma. Regions with the largest employment gains rank both low and high on this variable.

Percent of Adults with a High School Diploma or Equivalent St. Louis Region and Peer Average, 1990 to 2009



ADULTS WITHOUT A HIGH SCHOOL DIPLOMA OR EQUIVALENT

Percent of persons age 25 and older, 2009

	25 and older, 2	.009
1	Los Angeles	22.4
2	Houston	20.0
3	San Antonio	18.5
4	Dallas	18.1
5	Miami	17.5
6	Memphis	16.2
7	New York	15.7
8	Pittsburgh	15.4
9	San Diego	14.6
10	Chicago	14.1
11	Austin	13.4
12	Charlotte	13.3
13	Louisville	13.2
14	San Francisco	13.1
15	Atlanta	13.1
16	Nashville	13.1
Aver	age	13.1
17	Detroit	13.1
18	Oklahoma City	12.8
19	Indianapolis	12.4
20	Cincinnati	12.4
21	Cleveland	12.3
22	Baltimore	11.9
23	Phoenix	11.8
24	St. Louis	11.3
25	Denver	11.2
26	Milwaukee	11.2
27	Salt Lake City	11.1
28	Columbus	10.2
29	Kansas City	10.0
30	Washington D.C.	10.0
31	Portland	9.9
32	Boston	9.4
33	Philadelphia	9.0
34	Seattle	8.7
35	Minneapolis	7.5

Source: American Community Survey, U.S. Census Bureau

The St. Louis region has maintained a high ranking on percent of children enrolled in pre-primary education. The rank of 5th in the percent of children enrolled in early childhood education is one of the region's highest rankings of all the variables recorded in *WWS*, but it has slipped. While other regions, such as Boston who has maintained the number one spot, has seen an increase, St. Louis' percent has decreased from 31 percent of youth to 28 percent of youth being enrolled in early childhood education.

For spending on education the region is slightly above average, ranking 13th and spending \$9,600 per student on curriculum. In 1987, the St. Louis region was below average, ranking 19th. When looking at overall increased spending on education, the region has not increased spending as much as the peer regions. St. Louis has increased spending by 22 percent while, on average, peers have increased spending by 25 percent.

1987 to 2008 Increase in Education Spending

St. Louis: 22% Peer Average: 25%

CHILDREN ENROLLED IN PRESCHOOL cent persons younge

Percent persons younger than age 5, 2000

	than age 5, 2000	
1	Boston	31.9
2	St. Louis	31.5
3	Philadelphia	31.4
4		31.3
5	Pittsburgh	30.0
6	Kansas City	29.7
7	Cleveland	29.2
8	Chicago	28.7
8	San Francisco	28.7
10	Charlotte	28.2
11	Seattle	28.1
12	Washington D.C.	28.0
13	Minneapolis	27.8
14	Baltimore	27.7
14	Cincinnati	27.7
16	Memphis	27.5
17	Miami	27.1
18	Detroit	27.0
19	Columbus	26.9
20	Louisville	26.8
Aver	age	26.7
21	Denver	26.4
22	Indianapolis	26.2
23	Austin	25.6
24	Oklahoma City	25.3
25		25.2
26	Dallas	24.8
26	Nashville	24.8
28		24.1
29		23.5
30		23.2
31	Portland	23.0
31	Milwaukee	23.0
33	Salt Lake City	22.8
34	Los Angeles	21.6
35	Phoenix	21.2

Source: Centers for Disease Control and Prevention

CHILDREN ENROLLED IN PRESCHOOL Percent of persons younger than age 5, 2009

Boston

Philadelphia

32.1

30.5

Pittsburgh 29.9 3 San Francisco 28.1 St. Louis 28.0 27.7 6 Atlanta New York 27.7 7 8 Chicago 27.3 27.2 Detroit 10 Cleveland 27.1 11 Charlotte 26.9 12 Minneapolis 26.6 13 Kansas City 26.5 26.4 14 Baltimore 15_ Columbus 25.8 16 Austin 25.7 17 Denver 25.5 Miami 25.2 18 25.0 Average 19 San Antonio 24.9 20 Washington D.C. 24.9 21 Nashville 24.4 24.4 22 Cincinnati 23 Indianapolis 24.2 24 Louisville 23.9 23.6 25 Los Angeles **Portland** 26 23.4 27 Houston 23.4 22.5 28 San Diego

Source: American Community Survey, U.S. Census Bureau

29

30

31

32

33

34

35

Seattle

Dallas

Oklahoma City

Salt Lake City

Milwaukee

Memphis

Phoenix

EDUCATIONAL EXPENDITURES PER PUPIL 1987

1	New York	5,946
2	Philadelphia	5,570
3	Milwaukee	5,360
4	Pittsburgh	5,355
5	Portland	5,147
6	Washington D.C.	5,108
7	Miami	5,097
8	Cleveland	5,053
9	San Francisco	5,003
10	Minneapolis	4,846
11	Detroit	4,747
12	Denver	4,656
13	Boston	4,631
14	Phoenix	4,420
15	Los Angeles	4,414
16	Baltimore	4,363
Aver	age	4,337
17		4,199
18	St. Louis	4,183
19	Kansas City	4,051
20	Dallas	4,002
21	Atlanta	3,825
22	Columbus	3,782
23	Cincinnati	3,760
24	Indianapolis	3,573
25	Houston	3,291
26	Louisville	3,055
27	Oklahoma City	2,990
28	Nashville	2,686
29	Memphis	2,651

Source: US Census Bureau

Note: Original document did not have a #12 and only included 29 regions as shown here.

EDUCATION CURRICULUM SPENDING Dollars per pupil, 2007/2008

1	New York	17,923
2	Boston	13,578
3	Philadelphia	13,256
4	Washington D.C.	12,814
5	Baltimore	12,124
6	Pittsburgh	11,528
7	Cleveland	11,162
8	Milwaukee	10,577
9	Chicago	10,309
10	Columbus	10,307
11	Detroit	10,073
12	Los Angeles	9,699
13	St. Louis	9,668
14	Minneapolis	9,608
Aver		9,602
15	Cincinnati	9,597
16	San Francisco	9,582
17	Atlanta	9,430
18	San Diego	9,384
19	Denver	9,379
20	Kansas City	9,216
21	Miami	9,129
22	Portland	9,027
23	Seattle	8,600
24	Louisville	8,548
25	Indianapolis	8,524
26	Austin	8,086
27	San Antonio	7,833
28	Dallas	7,702
29	Memphis	7,636
30	Houston	7,599
31	Charlotte	7,529
32	Nashville	7,504
33	Phoenix	6,917
34	Oklahoma City	6,804
35	Salt Lake City	5,418

Source: National Center for Education Statistics

22.4

22.1

21.6

21.3

20.1

17.4

16.7

Worse than Average on Health of Youth

Where We Stand tracks several other variables that look at youth, particularly their health. The St. Louis region ranks well on some and poorly on others.

Asthma risk is one of the only variables where the St. Louis region ranks number one. Unfortunately, it is not a number one the region can brag about. The asthma risk index is developed by the Asthma & Allergy Foundation of America and considers 12 variables the foundation has found associated with increased risk for asthma. This variable was only included in the two most recent editions of WWS. From 2006 to 2010, 30 of the 35 peer regions improved their score, some substantially. St. Louis was one of the five regions that saw an increase in asthma risk, from 94.6 in 2006 to 97.4 in 2010.

Lead is a common environmental contaminant that exists in all areas of the U.S. In 2008, a reported 46,000 children in St. Louis were tested for elevated levels of lead poisoning, 542 of these children tested positive for high levels. To compare to other regions, the number of children that tested positive for high levels per 1,000 tested was calculated. The St. Louis region ranks just above average with 11.6 children per 1,000 tested testing positive for elevated levels.

Infant mortality is one of the variables the St. Louis region's ranking has worsened on although the region has improved overall. In 1988, St. Louis ranked 18th with 9.6 deaths per 1,000 live births and in 2007, ranked 9th with 7.9 deaths. All regions have improved on this variable with the peer average decreasing from 10.3 deaths to 6.7 deaths per 1,000 live births. The peer Midwest regions, such as Memphis, Cleveland, and Detroit, continue to have some of the highest infant mortality rates while others such as New York and Louisville have decreased their rate from 12 to 5 deaths per 1,000 live births.

On percent of children living in poverty, St. Louis ranked just below average with 18.6 percent of those under 18 living in poverty in 2009. The region's ranking, as well as the rate, has been fairly steady over the last 20 years but has increased some. In 1989, the region ranked 16th with nearly 16 percent of youth living in poverty.

INFANT MORTALITY RATE Deaths of infants less than one year old per 1,000 births, 2007

	1,000 bii tiis, 200	, ,
1	Memphis	12.5
2		8.8
3	Baltimore	8.5
4	Detroit	8.3
5	Philadelphia	8.1
6	Columbus	8.1
7	Cincinnati	8.0
8	Indianapolis	8.0
9	St. Louis	7.9
10	Oklahoma City	7.7
11	Milwaukee	7.4
12	Kansas City	7.3
13	Atlanta	7.1
14	Washington D.C.	7.1
15	Dallas	6.9
16	Pittsburgh	6.9
17	Chicago	6.8
18	Charlotte	6.7
Avera	age	6.7
19	Phoenix	6.4
20	Nashville	6.3
21	Miami	6.3
22	San Antonio	6.1
23	Houston	6.0
24	Denver	6.0
25	Minneapolis	5.9
26	Louisville	5.3
27	San Diego	5.2
28	Los Angeles	5.2
29	Seattle	5.2
30	Portland	5.1
31	Salt Lake City	5.0
32	New York	5.0
33	Austin	4.7
34	Boston	4.6
35	San Francisco	4.6

Source: Centers for Disease Control and Prevention

ASTHMA RISK Index of 12 indicators of risk, 2010

	,	
1	St. Louis	97.4
2	Milwaukee	95.5
3	Memphis	95.3
4	Philadelphia	94.0
5	Atlanta	92.1
6	Detroit	88.9
7	Pittsburgh	88.8
8	Nashville	88.7
9	San Antonio	88.5
10	Indianapolis	87.6
11	Louisville	86.7
12	Oklahoma City	86.1
13	New York	85.1
14	Columbus	84.9
15	Washington D.C.	83.3
16	Cincinnati	83.2
17	Cleveland	82.9
18	Charlotte	82.5
19	Baltimore	82.1
20	Chicago	81.4
Avera	age	81.3
21	Boston	81.0
22	Los Angeles	79.6
23	Houston	79.5
24	Phoenix	79.2
25	San Diego	78.3
26	Denver	77.8
27	Salt Lake City	76.9
28	Dallas	74.0
29	Miami	71.5
30	Kansas City	68.7
31	Portland	68.3
32	Seattle	67.6
33	Austin	65.6
34	San Francisco	62.1
35	Minneapolis	61.3

Source: Asthma & Allergy Foundation of America Note: Higher scores indicate increased risk

CHILDHOOD LEAD POISONING

Percent of children under age 6 with elevated lead levels per 1,000 children tested, 2008

	testeu, 2000	
1	San Diego	45.4
2	Cleveland	39.2
3	Chicago	32.1
4	Philadelphia	27.2
5	Pittsburgh	25.6
6	Milwaukee	24.1
7	Detroit	16.4
8	Cincinnati	12.2
9	Indianapolis	11.8
10	St. Louis	11.6
Avei	age	11.1
11	San Antonio	10.2
12	New York	7.2
13	Dallas	7.2
14	Oklahoma City	6.8
15	Austin	6.4
16	Houston	6.3
17	San Francisco	6.1
18	Boston	5.2
19	Minneapolis	5.0
20	Columbus	4.8
21	Los Angeles	4.7
22	Louisville	4.6
23	Portland	4.2
24	Kansas City	3.9
25	Baltimore	3.2
26	Miami	3.2
27	Washington D.C.	2.7
28	Phoenix	2.7
29	Atlanta	1.8
30	Memphis	1.5
31	Charlotte	0.6

Source: Centers for Disease Control and Prevention

CHILDREN LIVING IN POVERTY Percent of persons under age 18, 2009

1	Memphis	29.5
2	Detroit	23.3
3	San Antonio	23.3
4	Cleveland	22.3
5	Houston	22.2
6	Columbus	22.1
7	Phoenix	21.7
8	Milwaukee	21.1
9	Los Angeles	21.1
10	Miami	20.8
11	Dallas	20.7
12	Oklahoma City	20.5
13	Indianapolis	19.7
14	Louisville	19.5
15	Charlotte	19.2
16	Nashville	18.8
17	Austin	18.7
18	St. Louis	18.6
Averag		18.2
Averaç 19	ge Atlanta	18.2 18.2
19	Atlanta New York Chicago	18.2 18.1 17.8
19 20 21 22	Atlanta New York	18.2 18.1 17.8 17.7
19 20 21 22 23	Atlanta New York Chicago	18.2 18.1 17.8 17.7 17.1
19 20 21 22 23 24	Atlanta New York Chicago Cincinnati Pittsburgh Denver	18.2 18.1 17.8 17.7 17.1
19 20 21 22 23 24 25	Atlanta New York Chicago Cincinnati Pittsburgh	18.2 18.1 17.8 17.7 17.1
19 20 21 22 23 24 25 26	Atlanta New York Chicago Cincinnati Pittsburgh Denver	18.2 18.1 17.8 17.7 17.1
19 20 21 22 23 24 25	Atlanta New York Chicago Cincinnati Pittsburgh Denver San Diego	18.2 18.1 17.8 17.7 17.1 17.1 16.8
19 20 21 22 23 24 25 26	Atlanta New York Chicago Cincinnati Pittsburgh Denver San Diego Kansas City	18.2 18.1 17.8 17.7 17.1 17.1 16.8 16.6
19 20 21 22 23 24 25 26 27	Atlanta New York Chicago Cincinnati Pittsburgh Denver San Diego Kansas City Portland Philadelphia Baltimore	18.2 18.1 17.8 17.7 17.1 17.1 16.8 16.6 16.0
19 20 21 22 23 24 25 26 27 28	Atlanta New York Chicago Cincinnati Pittsburgh Denver San Diego Kansas City Portland Philadelphia	18.2 18.1 17.8 17.7 17.1 16.8 16.6 16.0 15.9 13.5
19 20 21 22 23 24 25 26 27 28	Atlanta New York Chicago Cincinnati Pittsburgh Denver San Diego Kansas City Portland Philadelphia Baltimore	18.2 18.1 17.8 17.7 17.1 16.8 16.6 16.0 15.9 13.5 12.7
19 20 21 22 23 24 25 26 27 28 29	Atlanta New York Chicago Cincinnati Pittsburgh Denver San Diego Kansas City Portland Philadelphia Baltimore Minneapolis	18.2 18.1 17.8 17.7 17.1 16.8 16.6 16.0 15.9 13.5
19 20 21 22 23 24 25 26 27 28 29 30	Atlanta New York Chicago Cincinnati Pittsburgh Denver San Diego Kansas City Portland Philadelphia Baltimore Minneapolis Seattle	18.2 18.1 17.8 17.7 17.1 16.8 16.6 16.0 15.9 13.5 12.7
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	Atlanta New York Chicago Cincinnati Pittsburgh Denver San Diego Kansas City Portland Philadelphia Baltimore Minneapolis Seattle San Francisco	18.2 18.1 17.8 17.7 17.1 16.8 16.6 16.0 15.9 13.5 12.7 12.4
19 20 21 22 23 24 25 26 27 28 29 30 31 32	Atlanta New York Chicago Cincinnati Pittsburgh Denver San Diego Kansas City Portland Philadelphia Baltimore Minneapolis Seattle San Francisco Salt Lake City	18.2 18.1 17.8 17.7 17.1 16.8 16.6 16.0 15.9 13.5 12.7 12.4 11.9

Source: American Community Survey, U.S. Census Bureau

Crime & Safety

Lower Crime but Still High

Reporting crime data is tricky for several reasons. The first difficulty comes when reporting crime data over time. If a police department makes a concerted effort to encourage residents to report crimes the crime rate could go up. This rise would not necessarily be due to more crime but due to more reported crime. When comparing crime data from different areas, additional problems arise including, simply, that police departments have different ways of reporting crimes. Further, crime rates will change depending on where you draw the line for the "community." This is the issue that arises from a highly publicized crime report that casts St. Louis as one of the

most dangerous cities in the U.S. Since the city of St. Louis is independent of St. Louis County, unlike most central cities in the U.S., the data for St. Louis reflects a more dense urban area than it does for most of the other cities. Despite the challenges of analyzing crime data, it is worth examining to give people an idea of what is occurring with crime. Often the perception is that there is more crime than there really is.

Overall crime rates have gone done in all of the peer regions, in most cases substantially. This is true for St. Louis as well. St. Louis' ranking in total crimes has changed from 19th with 6,305 crimes per 100,000 persons in 1991 to 21st with 3,641 crimes per 100,000 persons in 2009. The two graphs in this section show the property crimes and violent crimes per 100,000 for St. Louis and the average for the peer regions, as recorded in each of the six editions of WWS. The crime rates have decreased with St. Louis maintaining a rate below the average on property crimes and only one year—1995—recording an above average number of violent crimes.

The region's murder rate has decreased in murders per 100,000 from 12.4 in 1995 to 7.4 in 2009 but its ranking has fluctuated from 9th, up to 14th, and most recently at the 6th highest murder rate.

Total Crime St. Louis Rank

1991: 19th 1995: 17th 1997: 25th 2000: 17th 2004: 23rd 2009: 21st

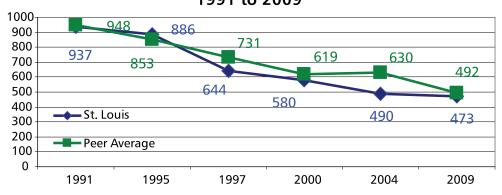
TOTAL CRIME RATE Per 100,000 population, 2009

1	Memphis	6,219
2	San Antonio	5,954
3	Miami	5,122
4	Salt Lake City	5,090
5	Houston	4,828
6	Columbus	4,661
7	Indianapolis	4,455
8	Charlotte	4,430
9	Seattle	4,415
10	Austin	4,381
11	Dallas	4,323
12	Milwaukee	4,122
13	Baltimore	4,018
14	Nashville	4,013
15	Phoenix	3,996
16	Atlanta	3,980
17	San Francisco	3,931
Aver		3,911
18	Detroit	3,728
19	Louisville	3,698
20	Cincinnati	3,647
21	St. Louis*	3,641
22	Cleveland	3,267
23	Philadelphia	3,213
24	Portland	3,197
25	Denver	3,144
26	Washington D.C.	3,127
27	Los Angeles	2,832
28	San Diego	2,741
29	Boston	2,550
30	Pittsburgh	2,386
24		
31	New York	2,132

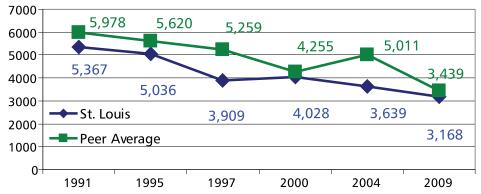
Source: FBI Crime Statistics

*St. Louis forcible rape statistics from 2008

Violent Crimes per 100,000 Population St. Louis Region and Peer Average, 1991 to 2009



Property Crimes per 100,000 St. Louis Region and Peer Region Average, 1991 to 2009



Racial Disparity

Not Closing the Gap

Racial disparity is one of the issues St. Louis has consistently ranked poorly on. In the first four editions, the publication used a racial disparity index that considered 12 to 15 variables together. Recognizing this as a key challenge in the St. Louis region, in more recent editions the variables have been separated to better gauge where the region stands.

These six tables show the ratio of blacks to whites for a variety of variables on social and economic well-being. Racial disparities exist in all regions with black people

DISPARITY IN EDUCATION

Ratio of black to white, age 25 years or older, with less than a high school diploma, 2009

1 Minneapolis 4.8 2 Salt Lake City 4.0 3 Austin 3.9 4 Milwaukee 3.3 5 San Francisco 3.3 6 Miami 3.0 7 Boston 2.8 8 Washington D.C. 2.7 9 Denver 2.5 10 Seattle 2.5 11 Chicago 2.5 12 Memphis 2.4 13 Kansas City 2.3 14 New York 2.3 Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 29 Cinc	nıgn	school diploma,	2009
3 Austin 3.9 4 Milwaukee 3.3 5 San Francisco 3.3 6 Miami 3.0 7 Boston 2.8 8 Washington D.C. 2.7 9 Denver 2.5 10 Seattle 2.5 11 Chicago 2.5 12 Memphis 2.4 13 Kansas City 2.3 14 New York 2.3 Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma			4.8
4 Milwaukee 3.3 5 San Francisco 3.3 6 Miami 3.0 7 Boston 2.8 8 Washington D.C. 2.7 9 Denver 2.5 10 Seattle 2.5 11 Chicago 2.5 12 Memphis 2.4 13 Kansas City 2.3 14 New York 2.3 Average 2.3 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis </td <td>2</td> <td>Salt Lake City</td> <td>4.0</td>	2	Salt Lake City	4.0
5 San Francisco 3.3 6 Miami 3.0 7 Boston 2.8 8 Washington D.C. 2.7 9 Denver 2.5 10 Seattle 2.5 11 Chicago 2.5 12 Memphis 2.4 13 Kansas City 2.3 14 New York 2.3 Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 20 San Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 </td <td>3</td> <td>Austin</td> <td>3.9</td>	3	Austin	3.9
6 Miami 3.0 7 Boston 2.8 8 Washington D.C. 2.7 9 Denver 2.5 10 Seattle 2.5 11 Chicago 2.5 12 Memphis 2.4 13 Kansas City 2.3 14 New York 2.3 Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7	4	Milwaukee	
7 Boston 2.8 8 Washington D.C. 2.7 9 Denver 2.5 10 Seattle 2.5 11 Chicago 2.5 12 Memphis 2.4 13 Kansas City 2.3 14 New York 2.3 Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.	5	San Francisco	3.3
7 Boston 2.8 8 Washington D.C. 2.7 9 Denver 2.5 10 Seattle 2.5 11 Chicago 2.5 12 Memphis 2.4 13 Kansas City 2.3 14 New York 2.3 Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.	6	Miami	3.0
9 Denver 2.5 10 Seattle 2.5 11 Chicago 2.5 12 Memphis 2.4 13 Kansas City 2.3 14 New York 2.3 Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City <td< td=""><td>7</td><td>Boston</td><td></td></td<>	7	Boston	
9 Denver 2.5 10 Seattle 2.5 11 Chicago 2.5 12 Memphis 2.4 13 Kansas City 2.3 14 New York 2.3 Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City <td< td=""><td>8</td><td>Washington D.C.</td><td>2.7</td></td<>	8	Washington D.C.	2.7
11 Chicago 2.5 12 Memphis 2.4 13 Kansas City 2.3 14 New York 2.3 Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 34 Atlanta 1.4	9	Denver	2.5
12 Memphis 2.4 13 Kansas City 2.3 14 New York 2.3 Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 34 Atlanta 1.4	10	Seattle	2.5
13 Kansas City 2.3 14 New York 2.3 Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 34 Atlanta 1.4	11	Chicago	
14 New York 2.3 Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 34 Atlanta 1.4	12	Memphis	2.4
14 New York 2.3 Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 34 Atlanta 1.4	13	Kansas City	2.3
Average 2.3 15 Cleveland 2.1 16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 34 Atlanta 1.4	14	New York	2.3
16 Houston 2.1 17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 34 Atlanta 1.4	Avera	ge	2.3
17 Philadelphia 2.1 18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4	15	Cleveland	2.1
18 Portland 2.0 19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4	16	Houston	2.1
19 Los Angeles 2.0 20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4	17	Philadelphia	2.1
20 San Antonio 1.9 21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4	18	Portland	2.0
21 Baltimore 1.9 22 St. Louis 1.9 23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4		Los Angeles	2.0
23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4		San Antonio	1.9
23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4		Baltimore	1.9
23 Dallas 1.9 24 Charlotte 1.8 25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4		St. Louis	1.9
25 Columbus 1.8 26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4	23	Dallas	1.9
26 Indianapolis 1.8 27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4		Charlotte	1.8
27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4	25	Columbus	
27 Pittsburgh 1.7 28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4		Indianapolis	1.8
28 Detroit 1.7 29 Cincinnati 1.7 30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4	27	Pittsburgh	1.7
30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4		Detroit	1.7
30 San Diego 1.6 31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4	29	Cincinnati	1.7
31 Oklahoma City 1.5 32 Phoenix 1.5 33 Nashville 1.5 34 Atlanta 1.4	30	San Diego	1.6
33 Nashville 1.5 34 Atlanta 1.4	31	Oklahoma City	
34 Atlanta 1.4	32	Phoenix	1.5
34 Atlanta 1.4 35 Louisville 1.3	33	Nashville	1.5
35 Louisville 1.3	34	Atlanta	1.4
	35	Louisville	1.3

Source: American Community Survey, U.S. Census Bureau

DISPARITY IN POVERTY RATES Ratio of black to white poverty rates, 2009

	poverty rates, 2009	
1	Minneapolis	5.4
2	Salt Lake City	5.1
3	Milwaukee	4.9
4	Chicago	4.4
5	Denver	4.1
6	Cleveland	3.9
7	Pittsburgh	3.8
8	Philadelphia	3.7
9	San Francisco	3.5
10	Washington D.C.	3.5
11		3.4
12	Detroit	3.3
13	Memphis	3.3
14	Dallas	3.3
Avera	age	3.2
15		3.1
16	Baltimore	3.1
17	Seattle	3.1
18	Houston	3.0
19	Indianapolis	3.0
20	Cincinnati	3.0
21	Louisville	2.9
22	Kansas City	2.9
23	New York	2.9
24	Miami	2.8
25	Oklahoma City	2.7
26	Atlanta	2.7
27	San Antonio	2.7
28	Phoenix	2.6
29	Columbus	2.5
30	Los Angeles	2.4
31	Charlotte	2.4
32	Nashville	2.3
33	Austin	2.2
34	Portland	2.1
35	San Diego	2.0

Source: American Community Survey, U.S. Census Bureau experiencing hardship to a greater extent. On average for the 35 peer regions, blacks are over 3.2 times as likely to be in poverty, 2.2 times as likely to die during infancy, twice as likely to be unemployed and the median household income is about half that of whites.

The disparity in St. Louis is equal to or worse than the peer average on all six of these variables.

DISPARITY IN INFANT MORTALITY Ratio of black to white infant deaths (less than one year old)

per 1,000 live births, 2007

per '	1,000 live births,	2007
1	Pittsburgh	3.8
2	St. Louis	3.6
3	Milwaukee	3.6
4	Miami	2.8
5	Philadelphia	2.8
6	Baltimore	2.8
7	Chicago	2.6
8	Memphis	2.6
9	Cincinnati	2.6
10	Kansas City	2.6
11	Detroit	2.5
12	Cleveland	2.5
13	San Francisco	2.5
14	Minneapolis	2.4
15	Seattle	2.3
Avera	ige	2.2
16	Los Angeles	2.2
17	Atlanta	2.2
18	Columbus	2.2
19	Austin	2.0
20	Washington D.C.	2.0
21	Oklahoma City	2.0
22	Indianapolis	2.0
23	Dallas	2.0
24	San Diego	1.9
25	Charlotte	1.9
26	Denver	1.9
27	Nashville	1.9
28	Houston	1.8
29	Phoenix	1.7
30	Louisville	1.7
31	Boston	1.7
32	New York	1.7
33	San Antonio	1.4
34	Portland*	1.4
35	Salt Lake City**	1.1

Source: Centers for Disease Control and Prevention

DISPARITY IN UNEMPLOYMENT Ratio of black to white unemployment rates, 2009

	2009	
1	Milwaukee	3.2
2	Minneapolis	2.9
3	Phoenix	2.5
4	Memphis	2.5
5	Indianapolis	2.4
6	Louisville	2.3
7	Austin	2.2
8	St. Louis	2.0
9	Boston	2.0
10	Columbus	2.0
11	Kansas City	2.0
12	Cleveland	1.9
13	Baltimore	1.9
14	Portland	1.9
Aver	age	1.9
15	New York	1.9
16	Nashville	1.9
17	Denver	1.9
18	Houston	1.9
19	Atlanta	1.8
20	Oklahoma City	1.8
21	San Diego	1.8
22	Pittsburgh	1.7
23	Cincinnati	1.7
24	Miami	1.7
25	Philadelphia	1.7 1.7 1.7 1.7 1.7
26	Chicago	1.7
27	Washington D.C.	1.7
28	Detroit	1.5
29	Dallas	1.5
30	Charlotte	1.5
31	Los Angeles	1.3
32	San Francisco	1.3
33	San Antonio	1.3
34	Seattle	1.2
	·	

Source: Bureau of Labor Statistics, Geographic Profile of the United States

^{*} Combined data for 2006 and 2007 due to low African American sample size ** Combined data for 2001 -2007 due to low African American sample size

DISPARITY IN HIGHER EDUCATION

Ratio of white to black, age 25 years or older, with a bachelor's degree or higher, 2009

DISPARITY IN INCOME Ratio of white to black median household

income, 2009

	•	
1	Minneapolis	2.5
2	Milwaukee	2.3
3	Pittsburgh	2.2
4	Salt Lake City	2.2
5	Cleveland	2.2
6	Denver	2.1
7	San Francisco	2.1
8	St. Louis	2.0
9	Chicago	2.0
10	Kansas City	2.0
11	Philadelphia	1.9
12	Memphis	1.9
13	Cincinnati	1.9
14	Dallas	1.9
15	Houston	1.9
16	Detroit	1.9
Avera	age	1.8
17	Baltimore	1.8
18	New York	1.8
19	Indianapolis	1.8
20	Seattle	1.8
21	Oklahoma City	1.8
22	Louisville	1.8
23	Boston	1.8
24	Austin	1.8
25	Portland	1.8 1.7 1.7
26	Columbus	1.7
27	Los Angeles	1.7
28	Washington D.C.	1.7
29	Charlotte	1.7
30	Atlanta	1.7
31	Miami	1.6
32	Nashville	1.6
33	San Antonio	1.5
34	San Diego	1.4
35	Phoenix	1.4

Source: American Community Survey, U.S. Census Bureau

	-	
1	Milwaukee	2.8
2	Austin	2.5
3	San Francisco	2.4
4	Cleveland	2.3
5	Memphis	2.3
6	Philadelphia	2.2
7	Chicago	2.2
8	Miami	2.2
9	Indianapolis	2.1
10	Pittsburgh	2.1
11	Minneapolis	2.1
12	Denver	2.1
13	Boston	2.1
14	Washington D.C.	2.0
15	New York	2.0
16	Kansas City	2.0
17	Baltimore	2.0
18	St. Louis	2.0
19	Seattle	2.0
Avera		2.0
20	Detroit	2.0
21	Los Angeles	1.9
22	Houston	1.9
23		
	Cincinnati	1.8
24	Dallas	1.8 1.8
24 25	Dallas San Diego	1.8 1.8 1.8
24 25 26	Dallas San Diego Louisville	1.8 1.8 1.8 1.8
24 25 26 27	Dallas San Diego Louisville Columbus	1.8 1.8 1.8 1.8
24 25 26 27 28	Dallas San Diego Louisville Columbus Salt Lake City	1.8 1.8 1.8 1.8 1.8 1.7
24 25 26 27 28 29	Dallas San Diego Louisville Columbus Salt Lake City San Antonio	1.8 1.8 1.8 1.8 1.7 1.7
24 25 26 27 28 29 30	Dallas San Diego Louisville Columbus Salt Lake City San Antonio Charlotte	1.8 1.8 1.8 1.8 1.7 1.7
24 25 26 27 28 29 30 31	Dallas San Diego Louisville Columbus Salt Lake City San Antonio	1.8 1.8 1.8 1.8 1.7 1.7 1.6 1.6
24 25 26 27 28 29 30 31 32	Dallas San Diego Louisville Columbus Salt Lake City San Antonio Charlotte Atlanta Portland	1.8 1.8 1.8 1.8 1.7 1.7 1.6 1.6
24 25 26 27 28 29 30 31	Dallas San Diego Louisville Columbus Salt Lake City San Antonio Charlotte Atlanta Portland Oklahoma City	1.8 1.8 1.8 1.8 1.7 1.7 1.6 1.6 1.5
24 25 26 27 28 29 30 31 32 33 34	Dallas San Diego Louisville Columbus Salt Lake City San Antonio Charlotte Atlanta Portland Oklahoma City Phoenix	1.8 1.8 1.8 1.8 1.7 1.7 1.6 1.6 1.5 1.5
24 25 26 27 28 29 30 31 32 33	Dallas San Diego Louisville Columbus Salt Lake City San Antonio Charlotte Atlanta Portland Oklahoma City	1.8 1.8 1.8 1.8 1.7 1.7 1.6 1.6 1.5

Source: American Community Survey, U.S. Census Bureau

Governance & Public Finance

Another much discussed issue in the St. Louis region is governance and the fragmented nature of the region's government structure.

The St. Louis region has consistently ranked toward the top on number of local governments in total and per capita. In 1987, the region ranked 2nd with 28.4 government units per 100,000 population and in 2007 the region had 31.5 units per 100,000, ranking 3rd.

LOCAL GOVERNMENT UNITS Per 100,000 population, 1987

1	Pittsburgh	29.8
2	St. Louis	28.4
3	Louisville	28.3
4	Indianapolis	26.0
5	Kansas City	24.8
6	Houston	21.7
7	Columbus	21.7
8	Portland	20.5
9	Minneapolis	19.6
10	Cincinnati	19.5
11	Philadelphia	17.5
12	Oklahoma City	17.2
Aver		14.2
13	Seattle	13.8
14	Denver	13.5
15	Chicago	12.7
16	Milwaukee	12.3
17	Cleveland	11.7
18	San Francisco	11.1
19	Dallas	10.5
20	Nashville	10.3
21	Boston	9.3
22	Detroit	8.9
23	Atlanta	8.4
24	Memphis	7.8
25	Phoenix	7.3
26	Los Angeles	3.8
27	Washington D.C.	3.2
28	Baltimore	2.5
29	New York	2.3
30	Miami	1.9

Source: U.S. Census Bureau

Despite a high number of governments, the region has consistently had some of the lowest per capita government revenues and expenditures. On local government expenditures the region ranked toward the lower end, ranking 28th (of 30) in 1987 and 33rd in 2006. While this can be seen as a positive since it means low taxes, it could also mean lower services.

The Reliance on Sales Tax and Reliance on Property Tax tables show that the St. Louis region's governments are more reliant on sales tax and less reliant on property tax than most of the peer regions.

Does our government structure make us competitive?

200 Municipalities 9.8 per 100,000 People

135 School Districts 4.8 per 100,000 People

111 Fire Districts + 60 Municipal Fire Departments

LOCAL GOVERNMENTS Per 100,000 population, 2007

	2007	
1	Pittsburgh	32.9
2	Denver	32.1
3	St. Louis	31.5
4	Kansas City	30.5
5	Louisville	26.4
6	Indianapolis	23.6
7	Cincinnati	18.1
8	Columbus	16.8
9	Houston	15.4
10	Chicago	14.3
11	Minneapolis	14.2
Aver		12.1
12	Austin	11.5
13	Oklahoma City	11.2
14	Philadelphia	11.2
15	Portland	10.9
16	Cleveland	10.1
17	Milwaukee	10.0
18	Boston	9.0
19	Salt Lake City	9.0
20	Memphis	8.6
21	Nashville	8.6
22	Seattle	8.2
23	San Francisco	6.8
24	Atlanta	6.5
25	Detroit	6.3
26	Dallas	6.0
27	San Antonio	5.8
28	New York	5.2
29	Miami	5.2
30	Charlotte	4.8
31	San Diego	3.9
32	Phoenix	3.3
33	Washington D.C.	2.8
34	Los Angeles	2.6
35	Baltimore	1.5

Source: 2007 Census of Governments, U.S. Census Bureau

RELIANCE ON SALES TAX As a percent of

As a percent of total tax revenue, 2006

1	Oklahoma City	41.1
2	Denver	36.7
3	Seattle	31.9
4	Phoenix	29.8
5	Nashville	29.5
6	Atlanta	29.4
7	Los Angeles	28.6
8	Kansas City	27.7
9	Salt Lake City	27.7
10	Memphis	25.6
11	St. Louis	22.4
12	San Diego	20.3
13	San Francisco	18.3
14	Charlotte	18.3
Avera	age	16.0
15	Washington D.C.	15.6
16	Chicago	15.5
17	Houston	13.7
18	Dallas	13.7
19	New York	13.7
20	Miami	13.5
21	San Antonio	13.3
22	Cleveland	11.4
23	Columbus	8.2
24	Portland	7.3
25	Austin	6.9
26	Louisville	6.2
27	Pittsburgh	5.0
28	Minneapolis	4.8
29	Cincinnati	4.7
30	Detroit	4.5
31	Milwaukee	4.0
32	Baltimore	3.6
33	Philadelphia	2.6
34	Indianapolis	1.6
35	Boston	1.2

Source: State and Local Government Finance, U.S. Census Bureau

RELIANCE ON PROPERTY TAX As a percent of total tax revenue, 2006

1	Boston	96.6
2	Milwaukee	92.9
3	Austin	91.8
4	Indianapolis	91.4
5	Minneapolis	90.5
6	Detroit	86.9
7	Houston	85.0
8	San Antonio	84.8
9	Dallas	83.8
10	Miami	81.8
11	Chicago	81.4
12	Pittsburgh	78.1
13	Charlotte	76.6
14	San Diego	72.4
15	Cincinnati	72.3
Avera	age	72.1
16	Philadelphia	71.9
17	Portland	70.6
18	Cleveland	69.6
19	Memphis	68.8
20	St. Louis	68.1
21	Columbus	67.6
22	Salt Lake City	67.5
23	Atlanta	66.7
24	San Francisco	66.7
25	Phoenix	64.3
26	Nashville	63.9
27	Kansas City	62.9
28	Los Angeles	62.6
29	New York	59.7
30	Denver	58.2
31	Seattle	57.9
32	Louisville	56.3
33	Oklahoma City	53.8
34	Washington D.C.	51.4
35	Baltimore	48.7

Source: State and Local Government Finance, U.S. Census Bureau

LOCAL GOVERNMENT EXPENDITURES Dollars per capita, 2006

DO	nars per capita,	2006
1	San Francisco	7,570
2	New York	7,333
3	Los Angeles	6,789
4	Charlotte	6,419
5	Washington D.C.	6,333
6	Miami	6,176
7	San Diego	6,139
8	Seattle	5,966
9	Cleveland	5,347
10	Indianapolis	5,281
11	Denver	5,234
12	San Antonio	5,075
13	Memphis	5,003
14	Milwaukee	4,934
15	Phoenix	4,902
16	Chicago	4,894
Avera	age	4,893
17	Philadelphia	4,825
18	Kansas City	4,781
19	Portland	4,721
20	Minneapolis	4,684
21	Columbus	4,598
22	Boston	4,526
23	Detroit	4,390
24	Atlanta	4,345
25	Salt Lake City	4,247
26	Dallas	4,228
27	Houston	4,151
28	Baltimore	4,127
29	Pittsburgh	3,835
30	Nashville	3,774
31	Austin	3,523
32	Cincinnati	3,406
33	St. Louis	3,327
34	Louisville	3,275
35	Oklahoma City	3,102

Source: State and Local Government Finance, U.S. Census Bureau

Conclusion

What do these rankings tell us? The regions with the largest growth in population and employment tend to be more diverse, have larger increases in their central city population, and have lower median ages but they also do not have the highest earnings per job, are not as affordable as St. Louis, do not have as many adults with advanced degrees, and have higher crime rates. What makes a region competitive? What makes a community a good place to live?

Where does the St. Louis region want to stand in these rankings? Are we content with ranking above average on indicators of racial disparity and being number one for asthma risk? How can we improve our standing on economic variables? Where do we want to concentrate our resources? Can we learn from other regions that have improved on their rankings?

These are just some of the questions that *Where We Stand* asks of the people that live and work in the St. Louis area. The sixth edition provides data on 129 variables that can be used to assess the region. Many of these variables were used in earlier editions of the publication, providing an opportunity to examine St. Louis and its peers over a 20 year period. We present these facts for you to make your own assessment and challenge you to use the data to drive decisions and set priorities.



Creating Solutions Across Jurisdictional Boundaries

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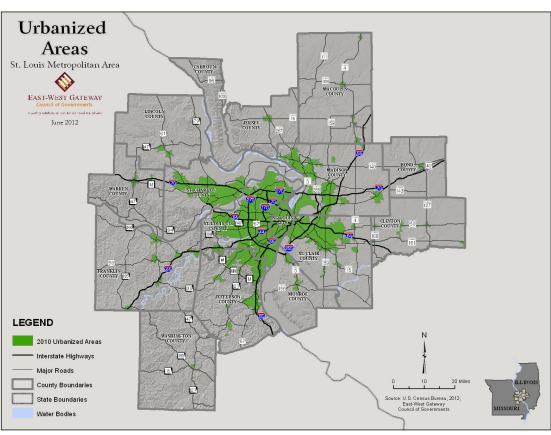
WHERE WE STAND UPDATE: POPULATION CHANGE—AGING

Since its first publication in 1990, Where We Stand has come to be recognized as an authoritative source of information about the competitive position of the St. Louis region in the national marketplace. We track over 100 variables that together tell a story about the health and competitive position of our region compared to 34 peer MSAs.¹ These regions are our domestic "competition" and are generally a consistent yardstick to gauge "Where We Stand." Now in its sixth edition, Where We Stand is issued about every three years with periodic updates in between each publication. These briefings provide an opportunity to update St. Louis' standing with new data or provide further insight on a specific topic. This issue builds on the data included in the WWS sixth edition, providing a greater understanding of where people of different age groups, with a focus on seniors, reside throughout our region and in our peer regions. Having an understanding of where people live and what their differing issues are can help us plan to meet housing, transportation, and other social service needs.

Aging Population

The aging of the population in the United States has been an increasingly discussed topic as the baby boom generation approaches and surpasses age 65.2 Less frequently discussed is that rural areas are aging faster than the rest of the country. Now that the first of this generation has reached the historical retirement age, the need to understand these nuances is even more important. There are many challenges that surface due to changing age demographics. At the federal level Social Security and Medicaid are greatly affected. At the state and local level the challenges are similar, with the senior population reliant on public programs. Additionally, these

changes have significant impacts on housing and transportation planning as well as implications for the workforce and tax revenues. While this is true for both rural and urban areas, the growing senior population in rural



areas is of particular concern because they tend to be poorer, less educated, have lower incomes, fewer resources for retirement, less adequate housing, poorer health and less access to services than their urban counterparts.³

¹ The U.S. Census Bureau defines a MSA, or metropolitan statistical area, as "that of a large population nucleus, together with adjacent communities having a high degree of social and economic integration with that core. Metropolitan statistical areas comprise one or more counties...the Office of Management and Budget (OMB) defines metropolitan areas for purposes of collecting, tabulating, and publishing federal data. Metropolitan area definitions result from applying published standards to Census Bureau data."

² The baby boom generation refers to those born between 1946 and 1964.

³ Rogers, Carolyn, *Changes in the Older Population and Implications for Rural Areas*, Food and Rural Economic Division, Economic Research Service, U.S. Department of Agriculture. Rural Development Research Report Number 90, Washington DC, December 1999.

To gain a better understanding of the concentration of seniors in rural areas, this update documents the change in rural and urban age distributions for the St. Louis MSA relative to the 34 metropolitan areas used to gauge "Where We Stand." Trends among age groups under 18 (youth), 18 to 34 (young adults), 35 to 64 (older adults) and 65 and older (seniors) are examined, comparing the population shifts in rural and urban boundaries.

Urbanization of America

Most of the population of the United States lives in urbanized areas.4 As of 2010, 80.7 percent of the population in the United States reside in Census designated urban areas or urban clusters. This represents a slight increase (1.7 percent) from 2000.5 To determine what portion of this increase is due to the change in how the geographic boundaries of the urbanized areas were redrawn, the 2000 and 2010 population demographics were both examined using the 2010 defined boundaries. This revealed that about 1.1 percent of the increase in the urbanized area population in the U.S. can be attributed to population growth while the remainder of the growth is due to the revised geographic boundaries. The 2010 boundaries are used throughout this update for both 2000 and 2010 data to mitigate the effects of the redrawn boundaries.

Although it may seem counterintuitive, metropolitan regions contain both urban and rural areas. In the St. Louis MSA, 86.2 percent of the population lives in urbanized areas while the remainder of the MSA population lives in rural areas. The rural areas of the MSA comprise 87.2 percent of the land area.

Each of the WWS MSAs, except Louisville and Nashville (80.7 percent and 76.8 percent, respectively), has a higher rate of urbanization than the full United States. St. Louis ranks 28th among the 35 peer regions. The map on page 1 depicts the urbanized area of the St. Louis region. The "urban area" includes the city of St. Louis, the areas of the region considered suburbs, and higher populated areas in the more rural parts of the region. The peer MSA average urbanized land area is about eight times (24.3 percent) the national average (3.0 percent), ranging from 3.3 percent (Salt Lake City) to a high of 57.4 percent (Boston). St. Louis ranks 26th out of 35 with 12.8 percent of its land considered "urbanized area."

PERCENT OF POPULATION LIVING IN URBANIZED AREAS

2010

1	Miami	99.6
2	Los Angeles	99.5
3	San Francisco	99.0
4	New York	98.0
5	Chicago	97.4
6	Salt Lake City	97.0
7	San Diego	96.7
8	Phoenix	95.9
	Philadelphia	94.9
	Boston	94.5
11	Seattle	94.4
12	Denver	94.3
	Milwaukee	93.4
	Detroit	93.2
	Houston	93.1
	Dallas	92.8
	Washington DC	92.7
	Cleveland	91.9
	Baltimore	91.0
	verage	90.8
	Portland	90.1
	Atlanta	89.1
	Minneapolis	88.9
	Indianapolis	88.4
	Charlotte	87.9
	Austin	87.2
	Kansas City	87.1
	San Antonio	86.2
	St. Louis	86.2
	Columbus	85.6
	Cincinnati	85.4
	Memphis	85.3
	Pittsburgh	82.2
	Oklahoma City	81.7
	Louisville	80.7
35	Nashville	76.8

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Source: U.S. Census Bureau



density requirements (For more details see the Federal Register at www.census.gov/geo/www/ua/fedregv76n164.pdf) See Map 1 for a depiction of urbanized areas in the St. Louis region.

⁴ Urbanized areas are defined for this update to include both urban areas and urban clusters, which adhere to specific thresholds in population and density. Urban areas meet or exceed 50,000 population thresholds with density requirements of 500 or 1,000 people per square mile, depending on block level population. Urban clusters range, in population, from 2,500 to 50,000, with similar

RURAL AREA POPULATION

Percent change, 2000-2010

1 Phoenix	50.2
2 Austin	30.7
3 Atlanta	28.7
4 San Antonio	28.2
5 Dallas	19.8
6 Oklahoma City	18.8
7 Houston	16.4
8 Denver	15.5
9 Minneapolis	12.9
10 Nashville	11.4
11 Louisville	10.8
12 Memphis	10.7
13 Salt Lake City	10.6
14 Washington DC	9.4
15 Charlotte	8.2
16 Kansas City	6.4
17 St. Louis	6.3
Average	6.2
10 Calumbus	
18 Columbus	4.1
19 Chicago	4.0
19 Chicago 20 Boston	4.0
19 Chicago 20 Boston 21 Cleveland	4.0 3.3 3.1
19 Chicago 20 Boston 21 Cleveland 22 Milwaukee	4.0 3.3 3.1 2.8
19 Chicago 20 Boston 21 Cleveland 22 Milwaukee 23 Cincinnati	4.0 3.3 3.1 2.8 2.7
19 Chicago 20 Boston 21 Cleveland 22 Milwaukee 23 Cincinnati 24 Detroit	4.0 3.3 3.1 2.8 2.7 1.4
19 Chicago 20 Boston 21 Cleveland 22 Milwaukee 23 Cincinnati 24 Detroit 25 Philadelphia	4.0 3.3 3.1 2.8 2.7 1.4 1.2
19 Chicago 20 Boston 21 Cleveland 22 Milwaukee 23 Cincinnati 24 Detroit 25 Philadelphia 26 Portland	4.0 3.3 3.1 2.8 2.7 1.4 1.2 0.5
19 Chicago 20 Boston 21 Cleveland 22 Milwaukee 23 Cincinnati 24 Detroit 25 Philadelphia 26 Portland 27 Baltimore	4.0 3.3 3.1 2.8 2.7 1.4 1.2 0.5 0.5
19 Chicago 20 Boston 21 Cleveland 22 Milwaukee 23 Cincinnati 24 Detroit 25 Philadelphia 26 Portland 27 Baltimore 28 Seattle	4.0 3.3 3.1 2.8 2.7 1.4 1.2 0.5 0.5
19 Chicago 20 Boston 21 Cleveland 22 Milwaukee 23 Cincinnati 24 Detroit 25 Philadelphia 26 Portland 27 Baltimore 28 Seattle 29 New York	4.0 3.3 3.1 2.8 2.7 1.4 1.2 0.5 0.5 0.4 -0.1
19 Chicago 20 Boston 21 Cleveland 22 Milwaukee 23 Cincinnati 24 Detroit 25 Philadelphia 26 Portland 27 Baltimore 28 Seattle 29 New York 30 Indianapolis	4.0 3.3 3.1 2.8 2.7 1.4 1.2 0.5 0.5 0.4 -0.1 -0.4
19 Chicago 20 Boston 21 Cleveland 22 Milwaukee 23 Cincinnati 24 Detroit 25 Philadelphia 26 Portland 27 Baltimore 28 Seattle 29 New York 30 Indianapolis 31 Pittsburgh	4.0 3.3 3.1 2.8 2.7 1.4 1.2 0.5 0.5 0.4 -0.1 -0.4 -6.5
19 Chicago 20 Boston 21 Cleveland 22 Milwaukee 23 Cincinnati 24 Detroit 25 Philadelphia 26 Portland 27 Baltimore 28 Seattle 29 New York 30 Indianapolis 31 Pittsburgh 32 Los Angeles	4.0 3.3 3.1 2.8 2.7 1.4 1.2 0.5 0.5 0.4 -0.1 -0.4 -6.5 -15.9
19 Chicago 20 Boston 21 Cleveland 22 Milwaukee 23 Cincinnati 24 Detroit 25 Philadelphia 26 Portland 27 Baltimore 28 Seattle 29 New York 30 Indianapolis 31 Pittsburgh 32 Los Angeles 33 San Diego	4.0 3.3 3.1 2.8 2.7 1.4 1.2 0.5 0.5 0.4 -0.1 -0.4 -6.5 -15.9 -20.1
19 Chicago 20 Boston 21 Cleveland 22 Milwaukee 23 Cincinnati 24 Detroit 25 Philadelphia 26 Portland 27 Baltimore 28 Seattle 29 New York 30 Indianapolis 31 Pittsburgh 32 Los Angeles	4.0 3.3 3.1 2.8 2.7 1.4 1.2 0.5 0.5 0.4 -0.1 -0.4 -6.5 -15.9

Source: U.S. Census Bureau Note: 2010 Urbanized Area Boundaries used

URBANIZED AREA POPULATION

Percent change, 2000-2010

_	T ercent change, 2000-2	
1	Austin	38.4
2	Charlotte	36.3
3	Phoenix	28.2
	Houston	26.9
5	San Antonio	24.7
6	Nashville	24.5
7	Dallas	23.7
8	Atlanta	23.5
	Indianapolis	17.6
	Portland	17.4
	Washington DC	17.0
	Denver	16.8
	Salt Lake City	16.2
	Columbus	15.7
	Seattle	13.9
	Oklahoma City	13.4
	/erage	13.0
	Kansas City	11.5
	San Diego	11.4
	Miami	11.3
20	Louisville	10.4
	Minneapolis	10.2
	Memphis	8.9
	Baltimore	6.8
24	Cincinnati	6.6
	San Francisco	5.9
26	Philadelphia	5.1
	Chicago	4.0
	St. Louis	3.9
	Los Angeles	3.9
	Milwaukee	3.7
	Boston	3.7
	New York	3.2
	Pittsburgh	-2.3
	Cleveland	-3.8
35	Detroit	-3.9

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Source: U.S. Census Bureau Note: 2010 Urbanized Area Boundaries used Among the 35 MSAs, the population in 2010 rural boundaries increased by an average of 6.2 percent between 2000 and 2010. This represents an increase of almost twice the aggregate rural population of the United States (3.5 percent). The change in rural population for the peer MSAs varies widely, from a decrease of 37.0 percent (San Francisco) to an increase of 50.2 percent (Phoenix). In St. Louis the rural population grew slightly above average, ranking 17th with a 6.3 percent increase.

The average increase for the peer MSAs was higher for the urban areas, 13.0 percent, compared to the average for the United States, 11.3 percent. Although the range among the peer regions was not as substantial as was seen for the rural areas, the difference between the fastest growing urban population, 38.4 percent increase in Austin, and the slowest growing, 3.9 percent decrease in Detroit, was still large. The urban population in St. Louis fell at the lower end of this spectrum, growing 3.9 percent over the past decade and ranking 28th among the 35 peers. St. Louis shared this low urban population growth with many of its Midwest peers while the region's rural population growth was larger than many of these counterparts.

"St. Louis shared this low urban population growth with many of its Midwest peers..."



Aging in Metro Areas

In each of the 35 metro areas, the rural population is aging faster than the urban population. In 2000, the average median age for the 35 peer MSAs in urbanized areas was 34.2, while the median age in rural areas was 37.5, an age gap of 3.3.6 In 2010, the regions' average

median age in urbanized areas increased to 35.8, while the median age in rural areas increased to 42.3, an age gap of 6.5. Therefore, the average age gap between rural and urban areas increased 3.27 years from 2000 to 2010.

RURAL AREA POPULATION MEDIAN AGE

2010

1 San Francisco	47.5
2 Denver	45.6
3 Pittsburgh	45.3
4 Baltimore	44.9
5 Portland	44.8
6 New York	44.4
7 Cleveland	44.4
8 Milwaukee	44.3
9 Seattle	44.1
10 Philadelphia	44.1
11 Los Angeles	43.4
12 Boston	43.2
13 Kansas City	43.2
14 Chicago	43.1
15 Washington DC	43.0
16 Miami	42.9
17 Indianapolis	42.8
18 San Diego	42.6
19 Detroit	42.4
Average	42.3
20 St. Louis	41.9
21 Cincinnati	41.9
22 Columbus	41.7
23 San Antonio	41.4
24 Charlotte	41.2
25 Louisville	40.9
26 Nashville	40.8
27 Minneapolis	40.7
28 Memphis	40.6
29 Oklahoma City	40.3
30 Dallas	40.1
31 Austin	39.7
32 Atlanta	39.6
33 Houston	39.6
34 Phoenix 35 Salt Lake City	38.9 35.3

Source: U.S. Census Bureau

URBANIZED AREA POPULATION MEDIAN AGE

2010

2010	
1 Pittsburgh	41.9
2 Cleveland	40.2
3 Miami	39.7
4 Detroit	38.7
5 San Francisco	38.2
6 Boston	38.0
7 Philadelphia	37.6
8 New York	37.4
9 St. Louis	37.4
10 Louisville	37.3
11 Baltimore	37.3
12 Seattle	36.4
13 Milwaukee	36.2
14 Cincinnati	36.2
15 Portland	36.0
Average	35.8
16 Kansas City	35.6
17 Chicago	35.6
18 Washington DC	35.6
19 Minneapolis	35.4
20 Denver	35.2
21 Los Angeles	35.1
22 Charlotte	34.7
23 Indianapolis	34.7
24 Phoenix	34.5
25 San Diego	34.5
26 Atlanta	34.4
27 Nashville	34.3
28 Memphis	34.2
29 Columbus	34.1
30 Oklahoma City	33.5
31 Dallas	33.1
32 San Antonio	33.1
33 Houston	32.8
34 Austin	31.9
35 Salt Lake City	30.8

Source: U.S. Census Bureau

CHANGE IN DIFFERENCE OF RURAL AND URBANIZED AREAS MEDIAN AGE

2000-2010

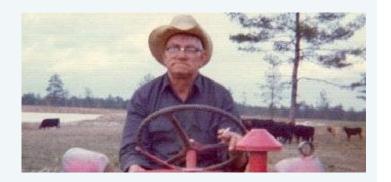
	2000-2010	
1	San Diego	7.5
2	Milwaukee	4.7
3	Miami	4.7
4	Seattle	4.7
5	San Francisco	4.5
6	Denver	4.4
7	Indianapolis	4.2
8	San Antonio	4.1
9	Washington DC	3.9
10	Portland	3.8
11	Baltimore	3.6
	Kansas City	3.6
	Charlotte	3.6
	Cincinnati	3.4
	Philadelphia	3.4
16	Nashville	3.4
	Minneapolis	3.4
18	Boston	3.3
	verage	3.3
	Louisville	3.1
	Pittsburgh	3.1
21	St. Louis	3.0
	New York	3.0
23	Chicago	3.0
24	Columbus	3.0
25	Oklahoma City	2.8
26	Memphis	2.5
27	Detroit	2.3
28	Houston	2.3
29	Dallas	2.3
30	Los Angeles	2.2
31	Cleveland	2.1
32	Salt Lake City	2.0
33	Atlanta	1.9
	Austin	1.8
35	Phoenix	1.6

Source: U.S. Census Bureau Note: 2010 Urbanized Area Boundaries used



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⁷ Numbers in the table differ due to rounding error.

Youth: Under 18 Years Old

Among the 35 peer MSAs, the under 18 rural population declined an average of 4.9 percent between 2000 and 2010. St. Louis ranks just below average at 18th with a 6.4 percent decrease in the rural youth population

Conversely, the urban youth population grew an average of 7.8 percent among the peer MSAs. The change in this demographic ranged from a decrease of 11.9 percent (Cleveland) to an increase of 40.9 percent (Charlotte). St. Louis ranked 31st with a 5.0 percent loss of urbanized area youth.

Ten of the twelve regions that saw increases in their rural youth population also had above average growth in urban youth population. All of the regions that saw decreases in their urban youth population also experienced decreases in their rural youth population.

The fastest growing regions for this age group are among the regions with the largest gains in overall population as well. Austin, Charlotte, Phoenix, Houston, San Antonio, Atlanta, Dallas, Nashville, and Denver experienced the largest overall population gains among the 35 regions.⁸

RURAL AREA UNDER 18 POPULATION CHANGE

Percent change, 2000-2010

2	Phoenix	26.6
	Atlanta	21.6
_	Austin	21.4
	San Antonio	13.1
	Oklahoma City	12.4
	Dallas	9.2
	Houston	7.6
8	Salt Lake City	6.6
9	Nashville	2.7
	Louisville	1.4
11	Memphis	0.7
	Denver	0.6
13	Washington DC	-0.3
14	Minneapolis	-0.8
15	Columbus	-2.1
16	Charlotte	-2.4
	Kansas City	-3.8
Α١	verage	-4.9
	St. Louis	-6.4
	Cincinnati	-8.2
	New York	-8.3
	Philadelphia	-8.4
$\overline{2}$	Milwaukee	
		-8.7
23	Cleveland	-9.0
23 24	Chicago	-9.0 -9.2
23 24 25	Chicago Boston	-9.0
23 24 25 26	Chicago Boston Indianapolis	-9.0 -9.2 -9.5 -10.8
23 24 25 26 27	Chicago Boston Indianapolis Baltimore	-9.0 -9.2 -9.5 -10.8 -11.5
23 24 25 26 27 28	Chicago Boston Indianapolis Baltimore Detroit	-9.0 -9.2 -9.5 -10.8 -11.5 -11.6
23 24 25 26 27 28 29	Chicago Boston Indianapolis Baltimore Detroit Portland	-9.0 -9.2 -9.5 -10.8 -11.5 -11.6
23 24 25 26 27 28 29 30	Chicago Boston Indianapolis Baltimore Detroit Portland Pittsburgh	-9.2 -9.5 -10.8 -11.5 -11.6 -13.9 -18.3
23 24 25 26 27 28 29 30 31	Chicago Boston Indianapolis Baltimore Detroit Portland Pittsburgh Seattle	-9.0 -9.2 -9.5 -10.8 -11.5 -11.6
23 24 25 26 27 28 29 30 31	Chicago Boston Indianapolis Baltimore Detroit Portland Pittsburgh Seattle Miami	-9.0 -9.2 -9.5 -10.8 -11.5 -11.6 -13.9 -18.3 -19.4
23 24 25 26 27 28 29 30 31 32 33	Chicago Boston Indianapolis Baltimore Detroit Portland Pittsburgh Seattle Miami San Diego	-9.0 -9.2 -9.5 -10.8 -11.5 -11.6 -13.9 -18.3 -19.4
23 24 25 26 27 28 29 30 31 32 33 34	Chicago Boston Indianapolis Baltimore Detroit Portland Pittsburgh Seattle Miami	-9.0 -9.2 -9.5 -10.8 -11.5 -11.6 -13.9 -18.3 -19.4

Source: U.S. Census Bureau Note: 2010 Urbanized Area Boundaries used

URBANIZED AREA UNDER 18 POPULATION CHANGE

Percent change, 2000-2010

1	Charlotte	40.9
2	Austin	39.9
3	Phoenix	26.9
4	Nashville	25.0
5	Atlanta	23.7
_	Dallas	23.3
	Houston	22.6
8	San Antonio	19.4
	Indianapolis	16.3
	Denver	13.3
	Columbus	12.5
	Salt Lake City	11.7
	Oklahoma City	10.9
	Washington DC	10.7
	Portland	10.1
	Kansas City	8.6
	verage	7.8
	Seattle	7.0
_	Louisville	6.9
	Minneapolis	3.9
	Memphis	3.0
	Miami	2.2
	San Diego	1.3
	Cincinnati	1.3
	San Francisco	-0.3
	Chicago	-2.7
	Baltimore	-2.7
	Milwaukee	-2.9
	Philadelphia	-3.4
	Boston	-4.1
	New York	-4.4
	St. Louis	-5.0
	Los Angeles	-8.5
	Pittsburgh	-10.8
	Detroit	-11.7
35	Cleveland	-11.9

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Source: U.S. Census Bureau Note: 2010 Urbanized Area Boundaries used



Young Adults: 18 to 34 Years Old

Between 2000 and 2010, the 18 to 34 year old cohort in rural areas declined at a similar rate to the under 18 age group (5.6 percent peer MSA average). Only about one-quarter (nine out of 35) of the peer MSAs experienced positive growth among this cohort. St. Louis ranked just below that at 10th with a 1.0 percent decrease.

The urban young adult population grew faster than the under 18 counterparts (9.2 percent average MSA increase) with only five regions experiencing a decrease in this population. None of these five regions were among those that saw an increase in their rural young adult population. St. Louis' urban young adult population grew 7.4 percent more than the rural counterparts at 6.4 percent, ranking 24th.

The regions with the highest urban young adult population were also among the regions with the highest net migration rates. Austin, San Antonio, Charlotte, Houston, Nashville, and Phoenix all had net migration rates of over 11 percent, some of the highest among the 35 peer regions.⁹



RURAL AREA 18-34 YEAR OLD POPULATION CHANGE

Percent change, 2000-2010

-	Di	
1	Phoenix	53.0
2	Austin	18.2
3		14.4
	Oklahoma City	11.2
5	Dallas	10.4
6		9.9
	Houston	5.9
	Minneapolis	0.8
	Memphis	0.2
10		-1.0
	Denver	-2.2
	Kansas City	-2.6
	Nashville	-2.6
	Chicago	-2.7
	Louisville	-3.2
	Baltimore	-5.0
	Seattle	-5.4
	/erage	-5.6
	Washington DC	-5.9
	Portland	-6.7
	Salt Lake City	-7.8
	Cleveland	-7.8
22	Charlotte	-9.1
23	Philadelphia	-10.8
	Boston	-11.0
	New York	-11.2
	Cincinnati	-11.8
27	Columbus	-11.9
28	Indianapolis	-13.2
	Detroit	-14.5
30	Milwaukee	-15.2
31	Los Angeles	-15.6
32	Pittsburgh	-17.0
	San Diego	-39.5
	Miami	-41.1
35	San Francisco	-45.7

Source: U.S. Census Bureau Note: 2010 Urbanized Area Boundaries used

URBANIZED AREA 18-34 YEAR OLD POPULATION CHANGE

Percent change, 2000-2010

-		
1	Austin	24.5
2	San Antonio	24.4
3	Charlotte	22.3
4	Houston	22.1
5	Nashville	20.0
	Phoenix	18.6
7		16.3
8	Oklahoma City	15.9
	Indianapolis	12.7
	San Diego	12.6
11	Portland	12.2
12	Dallas	11.6
	Seattle	10.9
14	Baltimore	10.8
15	Salt Lake City	10.8
16	Miami	10.7
17	Denver	10.4
18	Columbus	10.2
Α١	verage	9.2
	Louisville	8.8
20	Kansas City	8.7
21	Atlanta	8.5
22	Philadelphia	7.5
23	Minneapolis	6.6
24	St. Louis	6.4
	Milwaukee	5.5
26	Memphis	5.4
27	Pittsburgh	2.7
28	Cincinnati	2.7
29	New York	2.0
30	Boston	1.7
31	Chicago	-0.2
32	San Francisco	-0.4
	Los Angeles	-1.1
	Cleveland	-7.8
35	Detroit	-12.8

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Source: U.S. Census Bureau
Note: 2010 Urbanized Area
Boundaries used

"The regions with the highest urban young adult population were also among the regions with the highest net migration rates."

RURAL AREA 35-64 YEAR OLD POPULATION CHANGE

Percent change, 2000-2010

1 Phoenix	56.5
2 San Antonio	37.5
3 Austin	36.3
4 Atlanta	35.0
5 Dallas	24.2
6 Houston	21.2
7 Oklahoma City	20.6
8 Minneapolis	20.1
9 Salt Lake City	18.5
10 Denver	18.4
11 Nashville	18.0
12 Charlotte	16.9
13 Louisville	16.6
14 Memphis	16.6
15 Washington DC	13.9
16 St. Louis	12.2
Average	11.3
17 Boston	10.0
18 Kansas City	9.5
19 Cincinnati	9.1
20 Milwaukee	8.3
21 Columbus	8.0
22 Detroit	7.6
23 Chicago	7.1
24 Seattle	6.6
25 Cleveland	6.5
26 Philadelphia	5.4
27 Indianapolis	3.9
28 New York	3.8
29 Portland	2.1
30 Baltimore	2.0
31 Pittsburgh	0.2
32 San Diego	-9.2
33 Los Angeles	-12.8
34 Miami	-17.4
35 San Francisco	-38.0

Source: U.S. Census Bureau Note: 2010 Urbanized Area Boundaries used

URBANIZED AREA 35-64 YEAR OLD POPULATION CHANGE

Percent change, 2000-2010

1	Austin	48.0
2	Charlotte	43.2
	Phoenix	35.2
4	Houston	31.2
	Atlanta	30.7
	Dallas	30.5
	San Antonio	29.9
8	Nashville	27.5
9	Portland	23.8
	Salt Lake City	23.2
	Indianapolis	22.3
	Columbus	21.6
13	Denver	20.8
14	Miami	19.0
15	Washington DC	18.9
16	Seattle	18.5
	/erage	18.3
17	San Diego	17.7
	Memphis	15.2
	Kansas City	15.2
20	Minneapolis	14.4
	Louisville	13.7
	Los Angeles	13.6
23	Oklahoma City	13.3
	Cincinnati	12.6
	San Francisco	11.1
26	Chicago	10.3
27	Philadelphia	9.8
28	Baltimore	9.5
29	Boston	8.7
30	St. Louis	8.3
31	Milwaukee	8.0
-	New York	7.6
	Detroit	4.3
	Cleveland	2.5
35	Pittsburgh	2.3

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Source: U.S. Census Bureau Note: 2010 Urbanized Area Boundaries used

Older Adults: 35 to 64 Years Old

In 2000, the baby boom cohort ranged in age from 36 to 54. Therefore, it is not surprising then that the older adult age group increased in both urban and rural areas in most MSAs.

The older adult rural population increased by 8.8 percent nationally and an average of 11.3 percent for the peer MSAs. The rural population in St. Louis for this age group grew at a slightly higher rate, 12.2 percent, ranking 16th. This growth is in contrast to the decreases experienced for the rural population in St. Louis among the youth (6.4 percent decrease) and the young adults (1.0 percent decrease).

The urban population for this age demographic grew at the fastest rate for the peer MSA average (18.3 percent) compared to 7.8 percent for the youth, 9.2 percent for young adults and 17.2 percent for seniors. St. Louis' older adult urban population grew at less than half the rate of the peer average, at 8.3 percent, ranking 30th out of 35.



RURAL AREA 65 YEARS AND OLDER POPULATION CHANGE

Percent change, 2000-2010

2 Phoenix 79.7 3 Atlanta 62.7 4 Austin 59.8 5 San Antonio 56.2 6 Minneapolis 55.2 7 Dallas 50.4 8 Salt Lake City 49.9 9 Detroit 47.4 10 Portland 43.6 11 Houston 43.1 12 Washington DC 42.7 13 Seattle 41.8 14 Oklahoma City 40.9 15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6 <th></th> <th>r ordent enange, 2000 2</th> <th>0.0</th>		r ordent enange, 2000 2	0.0
5 San Antonio 56.2 6 Minneapolis 55.2 7 Dallas 50.4 8 Salt Lake City 49.9 9 Detroit 47.4 10 Portland 43.6 11 Houston 43.1 12 Washington DC 42.7 13 Seattle 41.8 14 Oklahoma City 40.9 15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6	1	Denver	84.3
5 San Antonio 56.2 6 Minneapolis 55.2 7 Dallas 50.4 8 Salt Lake City 49.9 9 Detroit 47.4 10 Portland 43.6 11 Houston 43.1 12 Washington DC 42.7 13 Seattle 41.8 14 Oklahoma City 40.9 15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6	2	Phoenix	79.7
5 San Antonio 56.2 6 Minneapolis 55.2 7 Dallas 50.4 8 Salt Lake City 49.9 9 Detroit 47.4 10 Portland 43.6 11 Houston 43.1 12 Washington DC 42.7 13 Seattle 41.8 14 Oklahoma City 40.9 15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6	3	Atlanta	62.7
5 San Antonio 56.2 6 Minneapolis 55.2 7 Dallas 50.4 8 Salt Lake City 49.9 9 Detroit 47.4 10 Portland 43.6 11 Houston 43.1 12 Washington DC 42.7 13 Seattle 41.8 14 Oklahoma City 40.9 15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6	4	Austin	59.8
7 Dallas 50.4 8 Salt Lake City 49.9 9 Detroit 47.4 10 Portland 43.6 11 Houston 43.1 12 Washington DC 42.7 13 Seattle 41.8 14 Oklahoma City 40.9 15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6	5	San Antonio	56.2
8 Salt Lake City 49.9 9 Detroit 47.4 10 Portland 43.6 11 Houston 43.1 12 Washington DC 42.7 13 Seattle 41.8 14 Oklahoma City 40.9 15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6		Minneapolis	55.2
9 Detroit 47.4 10 Portland 43.6 11 Houston 43.1 12 Washington DC 42.7 13 Seattle 41.8 14 Oklahoma City 40.9 15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6	7	Dallas	50.4
10 Portland 43.6 11 Houston 43.1 12 Washington DC 42.7 13 Seattle 41.8 14 Oklahoma City 40.9 15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6	8	Salt Lake City	49.9
11 Houston 43.1 12 Washington DC 42.7 13 Seattle 41.8 14 Oklahoma City 40.9 15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.4 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6	9	Detroit	47.4
12 Washington DC 42.7 13 Seattle 41.8 14 Oklahoma City 40.9 15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			43.6
13 Seattle 41.8 14 Oklahoma City 40.9 15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			43.1
14 Oklahoma City 40.9 15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			42.7
15 Milwaukee 40.4 16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			41.8
16 Louisville 39.5 Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6	14	Oklahoma City	40.9
Average 37.6 17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6	15	Milwaukee	40.4
17 Cleveland 35.0 18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6	16	Louisville	39.5
18 Chicago 34.6 19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			37.6
19 Charlotte 34.5 20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			35.0
20 Boston 34.2 21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			
21 Nashville 34.0 22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			
22 Columbus 33.7 23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			
23 Memphis 32.2 24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			
24 Cincinnati 31.8 25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			
25 Kansas City 30.6 26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			
26 Indianapolis 30.4 27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			31.8
27 Baltimore 28.5 28 Miami 27.5 29 St. Louis 26.6			30.6
28 Miami 27.5 29 St. Louis 26.6			30.4
29 St. Louis 26.6			
29 St. Louis 26.6			27.5
30 Philadelphia 23.7			26.6
		Philadelphia	23.7
31 New York 16.7			
32 San Diego 9.7			
			5.4
		Los Angeles	4.7
	1	San Francisco	4.1

Source: U.S. Census Bureau Note: 2010 Urbanized Area Boundaries used

URBANIZED AREA 65 YEARS AND OLDER POPULATION CHANGE

Percent change, 2000-2010

Tercent change, 2000-20	
1 Austin	51.7
2 Atlanta	41.6
3 Houston	38.9
4 Dallas	36.7
5 Charlotte	36.0
6 Phoenix	31.0
7 Washington DC	27.8
8 Denver	27.7
9 Nashville	24.6
10 Salt Lake City	24.6
11 Portland	24.4
12 San Antonio	22.4
13 Minneapolis	19.7
14 Seattle	19.3
15 Columbus	17.6
16 Los Angeles	17.3
Average	17.2
17 Indianapolis	15.6
18 Oklahoma City	13.8
19 San Francisco	13.4
20 Kansas City	12.3
21 San Diego	12.1
22 Memphis	11.7
23 Louisville	9.9
24 Baltimore	9.8
25 Chicago	8.4
26 Miami	7.6
27 Cincinnati	7.3
28 New York	6.8
29 Boston	6.5
30 St. Louis	4.5
31 Detroit	4.4
32 Philadelphia	3.5
33 Milwaukee	1.9
34 Cleveland	-0.8
35 Pittsburgh	-7.5

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Source: U.S. Census Bureau Note: 2010 Urbanized Area Boundaries used

Seniors: 65 Years and Older

Much like the older adult age group, the senior population grew in both the rural and urban areas for almost all MSAs. Decreases were only seen in the urban areas of two regions—Cleveland (-0.8 percent) and Pittsburgh (-7.5 percent) The average senior population growth among the peer MSAs of 37.6 percent was the highest increase seen among the age groups for the rural population. Seven of the regions experienced over fifty percent growth in this cohort. In the St. Louis region, the population of rural seniors increased at a slower rate (26.6 percent) than most of the peer MSAs, ranking 32nd out of 35, but was still the largest growth rate among any of the age cohorts, rural or urban, for the region.

The senior population in urbanized area boundaries grew at a slightly slower rate (17.2 percent) for the peer MSA average than for the older adult urban counterpart (18.3 percent). The growth rates were about double the youth (7.8 percent) and the young adult (9.2 percent) age groups. Compared to the peer MSAs the urban senior population in St. Louis grew slowly (4.5 percent) over the past decade, ranking 30th out of 35.



Proportional Changes

Examining the proportional changes in the age demographics helps see how much of a difference these age shifts have on the overall makeup of the population. In 2010 four in ten people in the United States were over the age of 45 (39 percent), up from 34 percent in 2000 and 31 percent in 1990. Tor the peer MSAs the over 65 population has grown from 11.1 percent of the population in 2000 to 11.6 percent of the population in 2010. In contrast, the under 18 population has decreased from 26.0 percent in 2000 to 24.6 percent in 2010.

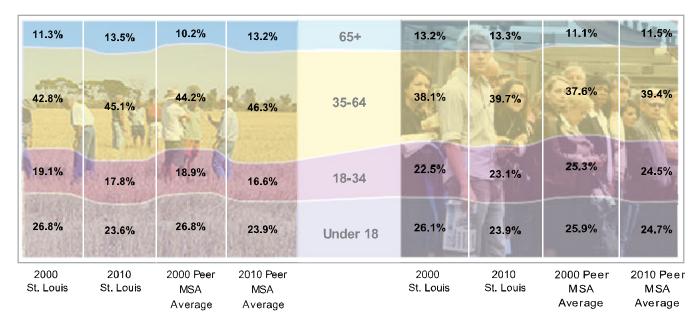
While this is true in both rural and urban areas, the changes are more pronounced in the rural areas than in the urbanized areas. For the 35 peer MSAs the rural senior population increased 3.0 percent from 2000 to 2010 while the urban counterparts only increased 0.4 percent. On the other end of the spectrum, the rural youth population decreased 2.9 percent compared to 1.2 percent in the urban areas. For the St. Louis region the rural senior population increased 2.2 percent (11.3 percent in 2000 to 13.5 percent in 2010) and the urban senior population increased 0.1 percent (13.2 to 13.3 percent).

Today, 40 million people in the United States are ages 65 and older, but this number is projected to more than double to 89 million by 2050. Although the "oldest old"—those ages 85 and older-represent only 15 percent of the population ages 65 and older today, their numbers are projected to rise rapidly over the next 40 years. By 2050, the oldest old will number 19 million, over one-fifth of the total population ages 65 and older.

--Population Reference Bureau---

Rural Area Age Distribution

Urbanized Area Age Distribution



¹⁰ Frey, William H., *The Uneven Aging and 'Younging' of America: State and Metropolitan Trends in the 2010 Census*, Metropolitan Policy Program at Brookings, June 2011.

Challenges Associated with the Changing Age Demographics

- Greater need for healthcare. Most older persons have at least one chronic condition and many have multiple conditions resulting in a need for more frequent visits to the doctor and more specialized needs. 11 While this is true for all seniors, health care in rural areas tends to be less accessible, provide fewer choices or alternatives, is more costly and provides fewer specialized services. 12
- Less tax revenue. As people leave the workforce they contribute less to the tax base. This is true of the income tax as well as sales tax since the older age demographic tends to be on a fixed income and therefore spends less on retail sales.
- More dependent on public transportation. The combination of being on a fixed income and declining health results in seniors having a greater need for public transit.¹³
- Aging in place. A survey of older adults found that that nearly three-quarters (73 percent) of respondents said they want to live in their current residence as long as possible.¹⁴ Desire to age in place means a need for adapted housing such as implementation of universal design features or multigenerational housing that provides easier access and a lower financial burden for seniors.¹⁵

- Lower participation in the workforce. As boomers leave the workforce, the working age population will decline unless there is an increase in immigration. This raises concerns about potential workforce shortages.
- Changing household dynamics. Seniors are increasingly deciding to live alone, rather than move in with their children, with 30 percent of seniors now living alone.¹⁶
 For some seniors this could mean less ability to rely on family caregivers.

Conclusion

Although all areas of the country are aging, the rural portions of the metropolitan areas have the highest concentration of older adults and seniors. These changes will require careful consideration in planning for the changing transportation, housing and social service needs, particularly for the rural senior population.



Creating Solutions Across Jurisdictional Boundaries

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November, 2011 • 6th Edition, Update #1

WHERE WE STAND UPDATE: POPULATION GROWTH IN ST. LOUIS

Since its first publication in 1990, Where We Stand has come to be recognized as an authoritative source of information about the competitive position of the St. Louis region in the national marketplace. We track over 100 variables that together tell a story about the health and competitive position of our region compared to 34 peer metropolitan statistical areas (MSAs).¹ Now in its sixth edition, Where We Stand is issued about every five years with periodic updates between each publication. These briefings provide an opportunity to update St. Louis' standing with new data or provide further insight on a specific topic. This issue builds on the data included in the WWS sixth edition, providing a greater understanding of the factors that influence population change in St. Louis, while also identifying noteworthy settlement patterns in other metropolitan regions.

National Population Change

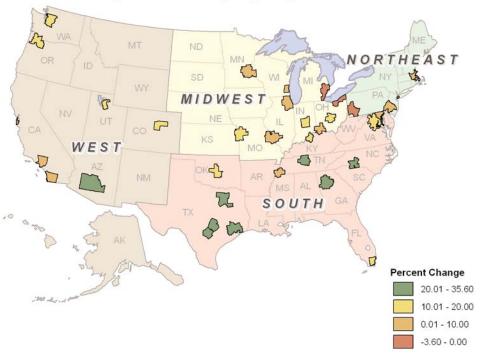
Five years ago the United States reached a milestone as it joined the ranks of China and India as one of only three countries with a population exceeding 300 million. It took the U.S. almost 200 years to amass its first 200 million people and only 40 years to add its last 100 million.

Since 2000, the U.S. experienced a 9.7 percent increase in population (from 281.4 million in 2000 to 308.7 million in 2010),² the slowest rate in the past six decades and the second slowest since 1900.³

The nation did not experience widespread population growth over the past decade; rather it saw concentrated regional gains.⁴ From 2000 to 2010, regional growth in the South and West outpaced the national average (14.3 and 13.8 percent, respectively). The Midwest and Northeast, on the other hand, grew at a much slower pace than the national average over this time period (3.9 and 3.2 percent, respectively).

St. Louis is typical of other Midwestern regions—a slower pace of population growth with relatively lower rates of

MSA Population Change by Region, 2000-2010



international and domestic migration but some growth due to natural increases. This briefing compares the St. Louis region with 34 peer regions on population change dynamics.

¹ The U.S. Census Bureau defines a MSA, or metropolitan statistical area, as "that of a large population nucleus, together with adjacent communities having a high degree of social and economic integration with that core. Metropolitan statistical areas comprise one or more counties ... the Office of Management and Budget (OMB) defines metropolitan areas for purposes of collecting, tabulating, and publishing federal data. Metropolitan area definitions result from applying published standards to Census Bureau data".

³ U.S. Census Bureau, 2010 Census; Census 2000; Hobbs, F., & Stoops, N. (2002). Demographic trends in the 20th century. Washington D.C.: U.S. Census Bureau; Forstall, R. (1996). Population of the states and counties of the United States: 1790 to 1990. Washington D.C.: U.S. Census Bureau.

⁴ The U.S. Census Bureau, 2010 Census divides the country into four regions (South, West, Midwest & Northeast). Regional population data from U.S. Census Bureau, 2010 Census; Census 2000.

Metropolitan Population Change

Much of the population boom in the South and West can be attributed to the rapid growth of metropolitan areas in those regions. Of the 20 WWS peer regions that experienced growth above the national average (9.7 percent) over the past decade, 16 were located in the South and West. The top 12 fastest-growing MSAs were located in these regions with the top eight growing at a rate more than double that of the national average. Additionally, the three fastest growing metropolitan areas, Phoenix, Charlotte and Austin, grew roughly three times faster than the nation as a whole (27.9, 31.2 and 35.6 percent, respectively).

Slow or negative population growth in some metropolitan areas of the Midwest and Northeast has contributed to the slow population growth in these regions. Of the 15 WWS peer regions that experienced below average growth over the past decade, 10 were located in these two regions. Furthermore, the only three metropolitan regions to lose population over the past decade, Pittsburgh, Cleveland and Detroit (-3.0, -3.3 and -3.6 percent respectively), are located in these slow-growth regions.

In the past decade, the St. Louis MSA grew at the ninth slowest rate among the WWS peers. St. Louis' population grew from 2,698,687 in 2000 to 2,812,896 in 2010, a 4.1 percent increase. This rate is far below the peer average growth rate of 12 percent but is in line with the population trends of MSAs throughout the Midwest and is a higher rate than some of the most populated regions such as New York, Chicago, and Los Angeles.

Components of Population Change

There are two components of population change: migration and natural increase. Migration is the number of immigrants (both international and domestic) that move in to or out of an area. Natural increase is the number of births over deaths.

International Migration

Foreign-born residents make up about 12.5 percent of the total population of the United States⁵ and a majority of them live in metropolitan areas. This settlement pattern has held up for over a century and American cities continue to host large immigrant populations.

METRO AREA POPULATION

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2010				
1 New York	18,897,109			
2 Los Angeles	12,828,837			
3 Chicago	9,461,105			
4 Dallas	6,371,773			
5 Philadelphia	5,965,343			
6 Houston	5,946,800			
7 Washington D.C.	5,582,170			
8 Miami	5,564,635			
9 Atlanta	5,268,860			
10 Boston	4,552,402			
11 San Francisco	4,335,391			
12 Detroit	4,296,250			
13 Phoenix	4,192,887			
Average	3,980,077			
14 Seattle	3,439,809			
15 Minneapolis	3,279,833			
16 San Diego	3,095,313			
17 St. Louis	2,812,896			
18 Baltimore	2,710,489			
19 Denver	2,543,482			
20 Pittsburgh	2,356,285			
21 Portland	2,226,009			
22 San Antonio	2,142,508			
23 Cincinnati	2,130,151			
24 Cleveland	2,077,240			
25 Kansas City	2,035,334			
26 Columbus	1,836,536			
27 Charlotte	1,758,038			
28 Indianapolis	1,756,241			
29 Austin	1,716,289			
30 Nashville	1,589,934			
31 Milwaukee	1,555,908			
32 Memphis	1,316,100			
33 Louisville	1,283,566			
34 Oklahoma City	1,252,987			
35 Salt Lake City	1,124,197			

Source: U.S. Census Bureau

POPULATION CHANGE

Percent change, 2000-2010

	Percent change, 2000-20	10
1	Austin	35.6
2	Charlotte	31.2
3	Phoenix	27.9
4	Houston	25.5
5	San Antonio	24.6
6	Atlanta	23.0
7	Dallas	22.6
8	Nashville	20.7
9	Denver	15.9
	Washington D.C.	15.8
11	Salt Lake City	15.6
12	Portland	15.0
	Indianapolis	14.7
14		14.1
15		13.4
	Seattle	12.7
	erage	12.0
17	· · · · · · · · · · · · · · · · · · ·	10.7
	Kansas City	10.4
	Louisville	10.2
	Minneapolis	10.0
21		9.6
22	Memphis	8.9
	Baltimore	6.0
24	Cincinnati	5.7
25		4.8
	Philadelphia	4.8
27	St. Louis	4.1
	Chicago	3.8
-	Milwaukee	3.6
	Los Angeles	3.5
31	Boston	3.4
-	New York	3.0
	Pittsburgh	-3.0
-	Cleveland	-3.3
35	Detroit	-3.6
_		

Source: U.S. Census Bureau

H I G H E R A G E L O W E R

In the past decade, all 35 of the WWS peer regions experienced positive population gains from international migration. Six of the 10 fastest growing regions were also among the top 10 metro regions for high rates of international migration. Five of those metros (Austin, Phoenix, Dallas, Houston and Atlanta) are located in the booming Sunbelt region. Another metro in the Sunbelt, Miami, has below-average population growth but ranks first among the peer regions with over 10 percent of its population increase coming from international migration.

Only three metropolitan regions in the Northeast or Midwest (New York, Boston and Chicago) had international migration rates above the average (3.6 percent) for WWS peer regions. Eleven of the 19 peer regions that had international migration rates below the average were located in the Northeast or Midwest. Pittsburgh experienced the slowest rate, a mere 0.8 percent.

A relatively small cohort of foreign-born residents settled in the St. Louis MSA over the past decade. International migration grew the regional population by only 1.1 percent (roughly 11,500 people), the second smallest rate among WWS peer regions. This rate is well below the 3.6 percent peer average, another example of the slow-growth of metropolitan areas in the Midwest.

NET INTERNATIONAL MIGRATION

Percent of 2000 population, 2000-2009

NET MIGRATIO	N	1	Miami	10.1
Percent of 2000 popula	tion,	1/2	Phoenix	6.5
2000-2009		3		6.5
1 Austin	22.9	$\frac{3}{4}$	Washington D.C.	6.4
2 Phoenix	22.7	5	Dallas	6.2
3 Charlotte	21.8	6	San Francisco	6.2
4 Atlanta	14.5	7	Houston	6.1
5 Dallas	12.2	8		5.9
6 San Antonio	12.0	9	Austin	5.2
7 Nashville	11.9	10	Atlanta	4.8
8 Houston	11.2	11	Boston	4.3
9 Portland	9.9	12	Denver	4.3
10 Denver	7.1	13	Salt Lake City	4.2
11 Indianapolis	6.4	14	Seattle	4.2
12 Oklahoma City	5.9	15	Chicago	4.0
13 Seattle	5.5		Portland	3.7
Average	4.5		erage	3.6
14 Columbus	4.4		Charlotte	3.6
15 Miami	4.4		San Diego	3.5
16 Louisville	4.3		Minneapolis	2.8
17 Washington D.C.	4.1		Nashville	2.8
18 Kansas City	3.5		Columbus	2.5
19 Minneapolis	2.1		Oklahoma City	2.2
20 Memphis	0.9		Philadelphia	2.2
21 Salt Lake City	0.9		Detroit	2.1
22 Baltimore	0.3		Kansas City	1.9
23 Cincinnati	0.2	1	San Antonio	1.8
24 Philadelphia	0.2		Indianapolis	1.8
25 St. Louis	-0.5	1	Milwaukee	1.8
26 Boston	-1.0	1	Baltimore	1.7
27 San Diego	-1.0		Memphis	1.6
28 Pittsburgh	-1.2		Louisville Cleveland	1.4
29 Chicago	-2.0		Cleveland	1.3
30 San Francisco	-2.1		St. Louis	1.1
31 Milwaukee	-3.1			
32 Los Angeles 33 New York	-4.3	35	Pittsburgh	0.8
33 New York	-4.6		Source: II S Consu	Duroni

Source: U.S. Census Bureau

NET DOMESTIC MIGRATION

Percent of 2000 population, 2000-2009

	2000-2009	
1	Charlotte	18.2
2		17.7
	Phoenix	16.2
4	San Antonio	10.2
5	Atlanta	9.6
6	Nashville	9.2
7	Portland	6.2
8	Dallas	5.9
9	Houston	5.1
10	Indianapolis	4.6
11	Oklahoma City	3.8
12	Louisville	2.9
13	Denver	2.8
14	Columbus	2.0
15	Kansas City	1.6
16	Seattle	1.4
	erage	0.9
	Memphis	-0.7
	Minneapolis	-0.8
	Cincinnati	-0.9
	Baltimore	-1.4
	St. Louis	-1.6
	Philadelphia	-2.0
	Pittsburgh	-2.0
	Washington D.C.	-2.3
	Salt Lake City	-3.4
26	San Diego	-4.5
27	Milwaukee	-4.8
28	Boston	-5.3
	Miami	-5.7
30	Chicago	-6.0
31	Cleveland Detroit	-6.2
32	Detroit	-8.1
33	San Francisco	-8.3
34	New York Los Angeles	-10.5 -10.8

Source: U.S. Census Bureau

tional migration, with the South and West regions experiencing higher rates (the nine metros that gained population from domestic migration at the highest rate are located in these regions). Charlotte, Austin and Phoenix, the three fastest growing regions in the past decade, also had the highest rates of domestic migration (all exceeding 16 percent).

At the other end of the spectrum, seven of the 10 slowest growing metropolitan regions over the past decade also experienced the greatest loss of population due to domestic migration (all exceeding 4 percent). Six of these 10 regions were located in the slow-growth areas of the Northeast and Midwest. Across

the nation, though, 19 of the 35 WWS regions lost population due to domestic migration.

percent and Los Angeles losing 10.8 percent of its popu-

lation base. Los Angeles is not the only region feeling the

years, over half of the WWS peer regions saw more resi-

dents move to another area of the nation than they saw

Domestic migration patterns for metropolitan regions

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AVERAGE

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mirrored those of overall population growth and interna-

negative effects of domestic migration. In the last 10

move into their region from elsewhere.

Domestic Migration

Source: U.S. Census Bureau

34 Cleveland

35 Detroit

Along with international migration, domestic migration plays an important role in population change. In 2008 alone, more than 10 million Americans "shuffled the deck" by moving from one county to another. Yet, over the past decade domestic migration among WWS peer regions occurred on average at a significantly slower rate (0.9 percent) than international migration (3.6 percent).

-4.9

The rate at which domestic migration took place among WWS regions is quite varied, with Charlotte growing 18.2

The St. Louis metropolitan area was among the 19 WWS peer regions experiencing more domestic outmigration than in-migration. On average, domestic migration contributed to roughly 1 percent increase in population in the WWS regions over the past decade. St. Louis lost 1.6 percent of its population due to more people moving out of the region than in but several Midwestern peer regions (Chicago, Milwaukee, Cleveland and Detroit) experienced a greater proportional loss of population due to domestic migration.

⁶ This includes migration both within metropolitan areas and between them; Bruner, J. (Designer). (2010). *Where Americans are moving*. [Web Map]. Retrieved from http://www.forbes.com/2010/06/04/migration-moving-wealthy-interactive-counties-map.html.

Natural Increase

While international and domestic migration largely influence population change, so does natural change, i.e. births and deaths. The natural rate of increase is calculated by determining the difference between the number of births and deaths in a given area.

Of the over 27 million person increase in population in the United States over the past decade, roughly 17 million (63 percent)⁷ is due to natural increases. The remaining 10 million is a result of international migration into the United States. The metropolitan and regional trends associated with natural increase are similar to those seen with total population change, international migration and domestic migration.

Three of the top five fastest growing metropolitan areas over the last decade had natural increase rates among the top five (Austin, Houston and Phoenix). These Sunbelt, metropolitan areas are leading population growth in the United States with natural increase rates all exceeding 10 percent. Additionally, these regions boast impressive top-10 net migration rates (22.9, 11.2, and 22.7 percent, respectively).

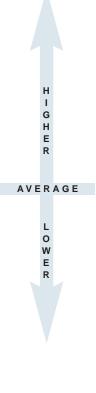
Meanwhile, Pittsburgh was the lone WWS peer region that experienced negative natural growth, losing 1.2 percent of its population due to more people dying than being born. Other older Midwestern and Northeastern metro areas fared better, though not by much. Cleveland had a 2.2 percent natural increase rate, while Philadelphia managed to increase its population by just 3.5 percent over the past decade. Ten out of the 19 peer regions that had below-average natural increase rates were located in the Midwest or Northeast.

Since the St. Louis metropolitan area had a negative net migration rate (-0.5 percent), the region relied on natural growth to increase the population. The metro area experienced a 3.8 percent natural increase rate over the past decade. This rate, however, was the fourth lowest among WWS peers and is well below the peer average rate of 6.9 percent.

NATURAL INCREASE

Percent of 2000 population, 2000-2009

1 Salt Lake City	13.6
2 Austin	12.2
3 Dallas	11.5
4 Houston	11.4
5 Phoenix	10.6
6 Atlanta	10.5
7 Denver	9.5
8 San Antonio	9.0
9 Charlotte	8.9
10 Washington D.C.	8.9
11 Los Angeles	8.7
12 San Diego	8.3
13 Minneapolis	8.1
14 Indianapolis	7.5
15 Columbus	7.2
16 Chicago	7.1
Average	6.9
17 Memphis	6.9
18 Nashville	6.9
19 Kansas City	6.7
20 Portland	6.5
21 Oklahoma City	6.5
22 Seattle	6.3
23 San Francisco	5.9
24 New York	5.7
25 Cincinnati	5.3
26 Milwaukee	5.2
27 Boston	4.2
28 Miami	4.1
29 Louisville	4.1
30 Baltimore	4.0
31 Detroit	3.9
32 St. Louis	3.8
33 Philadelphia	3.5
34 Cleveland	2.2
35 Pittsburgh	-1.2



Source: U.S. Census Bureau

Conclusion

What do these population statistics tell us? Why are metropolitan areas in the South and West experiencing substantially greater population gains than regions in the Midwest and the Northeast? What factors are contributing to the pattern of urbanization that we see today?

Over the last century, many theorists have viewed concentrated population growth as an outcome of industrialization and local economic development.⁸ Today, however, popular thought revolves around the belief that urban growth is a result of shifting population dynamics. Local amenities and personal preferences are now some of the most popularly researched and scrutinized attributes of population change.⁹ Some theorists, however, worry that policy focused on increasing local amenities and targeting the "creative class" can be problematic, as it exacerbates the urban economic and social divide.¹⁰

While the 6th edition of WWS does not directly theorize about population growth, it does provide baseline objective data that can help explain such changes. For one thing, the data show us that there has been a shift in international immigration patterns to the United States. Older cities like New York, Philadelphia and Boston were once the traditional entrance points for immigrants into the country. While these cities are still home to large immigrant populations, metropolitan regions in the South and West (Phoenix, Miami and Dallas) are now emerging as the new gateways for international migration, fueled in large part by Latin Americans.

Economic development and jobs may also contribute to population change. The three WWS regions that experienced the greatest increase in employment over the past decade (Austin, San Antonio and Houston) were also among the five fastest growing areas in terms of population. Additionally, regions in the Midwest that have historically been reliant on manufacturing (St. Louis, Detroit and Cleveland) have felt the brunt of the decline in that industry—reflected in both employment and population numbers. There is no doubt an important connection between employment opportunities and population settlement, but do jobs follow people or do people follow jobs?¹¹

Population growth is a complex process that indeed warrants the diverse set of theories dedicated to it. It would be reckless though, to postulate that any one theory could describe all the complexities of urbanization. A regional growth strategy must take a holistic approach by considering human capital, infrastructure, entrepreneurship and amenities when formulating policy. When it comes to planning around population change, area leaders must look at these and other factors to meet the needs and desires of a rapidly changing and highly mobile population.



Creating Solutions Across Jurisdictional Boundaries

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⁸ Weber, F. (1899). *The Growth of Cities in the Nineteenth Century*. New York: Macmillan Company.

⁹ Florida, R. (2003). *The Rise of the Creative Class*. New York: Basic Books; Glaeser, E.L. (2005). *Smart Growth: Education, Skilled Workers and the Future of Cold-Weather Cities*. Cambridge, MA: Harvard University, Kennedy School, Policy Brief PB-2005-1.

¹⁰ Scott, M. and Storper, M. (2009). Rethinking human capital, creativity and urban growth. *Journal of Economic Geography*, 9: 147-167.

¹¹ Mazek, W.F. and Chang, J. (1972). The chicken or egg fowl-up in migration: a comment. *Southern Economic Journal*, 39: 133-139; Muth, R. F. (1971) Migration—chicken or egg. *Southern Economic Journal*, 37: 295-306.