

PLANNING POLICY AND GUIDELINES FOR MISSOURI LOCAL WORKFORCE DEVELOPMENT BOARDS Program Years 2016–2020

LWDA = Local Workforce Development Area

IV. Economic, Labor Market, and Workforce Analysis

If using Missouri Economic Research and Information Center (MERIC) data, please indicate the source is MERIC. If using another resource, please reference the source. MERIC regional representatives can be found online at:

https://www.missourieconomy.org/about_us/contactus.stm#Regional_Contacts

A. Economic Analysis

1. *Describe the LWDA's current economic condition, including the following information by county (if your LWDA includes more than one county) and the overall region:*

- *Average personal income level;*
- *Number and percent of working-age population living at or below poverty level;*
- *Unemployment rates for the last five years;*
- *Major layoff events over the past three years and any anticipated layoffs; and*
- *Any other factors that may affect local/regional economic conditions.*

B. Labor Market Analysis

1 Existing Demand Industry Sectors and Occupations

Provide an analysis of the industries and occupations for which there is existing demand.

Missouri's WIOA partnership includes a functional bureau of state government housed within the Department of Economic Development called the Missouri Economic Research Information Center (MERIC). The following economic analysis has been prepared to explain the Southwest Workforce Development Area's economic conditions and trends, as well as to explain pertinent industrial and occupational demand.

Real-Time Labor Market Analysis

In 2012 MERIC began using a new tool to assess current, or real-time, demand for occupations throughout the state. The tool, provided by Burning Glass Technologies, captures online job advertisements and aggregates those jobs by occupation and industry codes. While on-line advertisements do not represent all job openings, as other informal networks are also used, it does provide a broad picture of hiring activity and serves as one measure of current labor demand.

Industrial Demand

Industry demand analysis from February 2015 through January 2016 showed that the General Medical and Surgical Hospitals industry was a top job advertisement. Restaurants, Trucking, and Computer Systems Design also had a high number of job advertisers.

Top Ten Real-Time Labor Demand Industries by Online Job Ads

Industry	Job Postings
General Medical and Surgical Hospitals	700
Restaurants and Other Eating Places	562
General Freight Trucking	540
Computer Systems Design and Related Services	426
Building Material and Supplies Dealers.	403
Department Stores	400
Insurance Carriers	267
Animal Slaughtering and Processing	205
Specialized Freight Trucking	193
Business Support Services	172

Source: Burning Glass Technologies (February 1, 2015-January 31, 2016)

Occupational Demand

Job analysis highlights the top ten occupations Southwest Region employers advertised for in the past year. Truck Drivers were in the greatest demand, followed by Retail Salespersons, Registered Nurses, and Customer Service Representatives. Sales Representatives, Supervisors of Retail Workers and Laborers were also in demand.

Real-Time Labor Market Analysis provides a snapshot of current labor demand that is particularly helpful to current job seekers interested in who is hiring and for what occupations. MERIC has developed products, like the Real Time Labor Market Summary, using this tool. The Labor Market Summary provides both a regional and statewide snapshot of data found in job ads and is published every other month. MERIC and DWD will continue to explore how this data can inform workforce and economic development efforts to meet the needs of businesses around the state.

Top Ten Real-Time Labor Demand Occupations by Online Job Ads

Occupation	Job Postings
Heavy and Tractor-Trailer Truck Drivers	1,548
Retail Salespersons	739
Registered Nurses	559
Customer Service Representatives	462
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	403
First-Line Supervisors of Retail Sales Workers	387
Laborers and Freight, Stock, and Material Movers, Hand	299
Maintenance and Repair Workers, General	270
Combined Food Preparation and Serving Workers, Including Fast Food	230
First-Line Supervisors of Food Preparation and Serving Workers	228

Source: Burning Glass Technologies (February 1, 2015-January 31, 2016)

2. Emerging Demand Industry Sectors and Occupations

Provide an analysis of the industries and occupations for which demand is emerging.

Industry

MERIC develops long-term employment projections based on industry trends and staffing patterns for the Southwest Workforce Development region. The table below describes the industries projected to have the most job openings from 2012 to 2022 based on both growth and replacement needs.

For the 2012-2022 time period, industries in the Southwest Region with the largest projected net change in employment are Manufacturing (1,952); Administrative and Support Services (1,667); Ambulatory Health Care Services (806); Truck Transportation (751); Specialty Trade Contractors (664); and Food Services and Drinking Places (636).

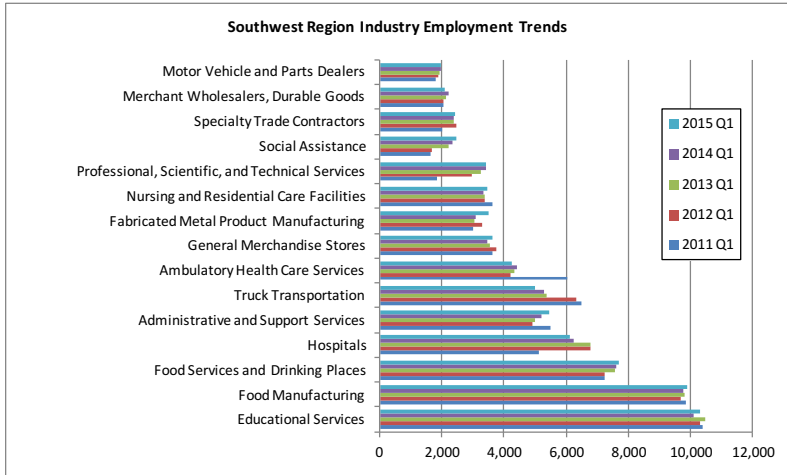
Southwest Region 2012-2022 Industry Projections

Title	Employment		Change	
	2012	2022	2012-2022	
	Estimated	Projected	Numeric	Percent
Manufacturing	22,723	24,675	1,952	8.59%
Administrative and Support Services	4,964	6,631	1,667	33.58%
Ambulatory Health Care Services	4,144	4,950	806	19.45%
Truck Transportation	5,671	6,422	751	13.24%
Specialty Trade Contractors	2,368	3,032	664	28.04%
Food Services and Drinking Places	7,833	8,469	636	8.12%
Professional, Scientific, and Technical Services	2,914	3,510	596	20.45%
Fabricated Metal Product Manufacturing	3,165	3,686	521	16.46%
Educational Services	9,205	9,706	501	5.44%
Hospitals	6,151	6,646	495	8.05%

Source: MERIC Employment Projections

Industry employment trends offer insight on the industries that are growing over time in a given area. Between 2011 and 2015, Southwest region industries with the largest increase in employment were

Professional, Scientific, and Technical Services (1,559); Hospitals (1,000); Social Assistance (811); Fabricated Metal Product Manufacturing (494); Food Services and Drinking Places (454).



Source: US Census Bureau, QWI Explorer Application (qwiexplorer.ces.census.gov)

Occupations

The long-term occupational projections for the Southwest Region show that the top job openings are for Truck Drivers, Retail Salespersons and Cashiers. The definition of *Total Openings* is projected new growth and replacement needs. The Truck Driver occupation, for example, shows a total projected employment of 6,144 for 2022, only 672 more than the 2012 estimate of 5,472 jobs. This means of the 1,547 job openings over 10 years, 875 are replacement openings due to turnover while only 672 are new. Total openings are important to job seekers while new jobs indicate where new training needs may be found.

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Southwest Region Top Ten Long-Term Occupation Projections Sorted by Total Openings

Occupation	2012 Estimated Employment	2022 Projected Employment	Growth Openings	Replacement Openings	Total Openings
Heavy and Tractor-Trailer Truck Drivers	5,472	6,144	672	875	1,547
Retail Salespersons	3,880	4,079	199	1,327	1,526
Cashiers	3,357	3,401	44	1,451	1,495
Combined Food Preparation and Serving Workers	2,692	3,060	368	1,028	1,396
Laborers and Freight, Stock, and Material Movers	2,224	2,510	286	689	975
Customer Service Representatives	2,013	2,379	366	548	914
Waiters and Waitresses	1,650	1,713	63	794	857
Registered Nurses	2,675	2,934	259	519	778
Office Clerks, General	2,765	2,952	187	581	768
Personal Care Aides	1,820	2,363	543	130	673

Source: MERIC Employment Projections

Occupations expected to have 500 or more total openings over ten years include Truck Drivers, Personal Care Aides, Retail Salespersons, Cashiers, Combined Food Preparation and Serving Workers, Manual Laborers and Customer Service Representatives. The Personal Care Aide occupation is also projected to grow faster than the overall region, nearly 30 percent in ten years. Other fast growing occupations include Industrial Machinery Mechanics, Medical Secretaries, and Customer Service Representatives.

3. Employers' Employment Needs

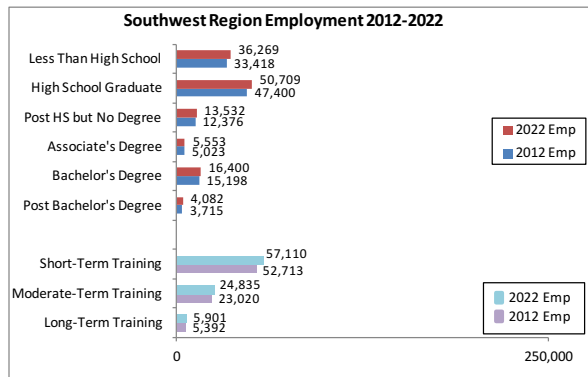
Identify the job skills necessary to obtain current and projected employment opportunities. With regard to the industry sectors and occupations, provide an analysis of the employment needs of employers. Describe the knowledge, skills, and abilities required, including credentials and licenses.

Long-Term Projections – Jobs by Education Level

Occupations typically requiring short-term OJT are expected to account for the largest portion of 2022 employment change in the Southwest Region. Occupations requiring short-term OJT are projected to experience the highest number of increased employment at over 4,397, or 8.3 percent growth. Employment in occupations requiring moderate-term OJT is also expected to grow by approximately 1,815 or 7.9 percent.

Increased employment is also anticipated for occupations requiring a high school diploma. Employment for this education level is projected to increase by nearly 3,309, or 7.0 percent. Occupations requiring post-high school training will increase by 3,255 workers.

As estimated for the year 2022, 69 percent of workers in the Southwest region will be employed in occupations that require no formal postsecondary education (includes short-term OJT to work experience in a related occupation). Workers in occupations that require just a bachelor's degree will account for over 13 percent of total employment in 2022.



Occupations by Education Level

The 2012-2022 long-term occupations projections were used to identify the top ten occupations based on total openings and level of education or training needed. Top occupations requiring short to moderate-term training include services and support sector occupations. Top new openings requiring at least long-term training or as much as an Associate’s degree include truck drivers, nurses, maintenance workers, and mechanics. The top occupations requiring a bachelor’s degree or higher include Management, Education, and Social Work occupations.

Southwest Region Top Ten Long-Term Occupation Projections Sorted by Total Openings

Occupation	2012 Estimated Employment	2022 Projected Employment	Growth Openings	Replacement Openings	Total
Now - Typically requires short-term on-the-job training					
Retail Salespersons	3,880	4,079	199	1,327	1,526
Cashiers	3,357	3,401	44	1,451	1,495
Combined Food Preparation and Serving Workers, Including Fast Food	2,692	3,060	368	1,028	1,396
Laborers and Freight, Stock, and Material Movers, Hand	2,224	2,510	286	689	975
Customer Service Representatives	2,013	2,379	366	548	914
Waiters and Waitresses	1,650	1,713	63	794	857
Office Clerks, General	2,765	2,952	187	581	768
Personal Care Aides	1,820	2,363	543	130	673
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	1,983	2,275	292	373	665
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	2,009	2,225	216	242	458
Next - Typically requires an associate's degree or long-term training					
Heavy and Tractor-Trailer Truck Drivers	5,472	6,144	672	875	1,547
Registered Nurses	2,675	2,934	259	519	778
Nursing Assistants	1,481	1,590	109	282	391
First-Line Supervisors of Retail Sales Workers	1,637	1,669	32	356	388
Teacher Assistants	1,136	1,178	42	258	300
Maintenance and Repair Workers, General	1,188	1,256	68	228	296
First-Line Supervisors of Office and Administrative Support Workers	821	913	92	195	287
First-Line Supervisors of Food Preparation and Serving Workers	681	764	83	192	275
Industrial Machinery Mechanics	532	646	114	154	268
Automotive Service Technicians and Mechanics	786	839	53	199	252
Later - Typically requires bachelor's degree or beyond					
General and Operations Managers	1,835	2,004	169	343	512
Elementary School Teachers, Except Special Education	1,454	1,586	132	320	452
Substitute Teachers	1,195	1,240	45	204	249
Accountants and Auditors	556	624	68	165	233
Secondary School Teachers, Except Special and Career/Technical Education	712	730	18	193	211
Farmers, Ranchers, and Other Agricultural Managers	1,206	1,028	0	195	195
Middle School Teachers, Except Special and Career/Technical Education	550	599	49	121	170
Physical Therapists	296	360	64	73	137
Child, Family, and School Social Workers	402	432	30	85	115
Cost Estimators	210	258	48	67	115

Source: MERIC Employment Projections

C. Workforce Analysis

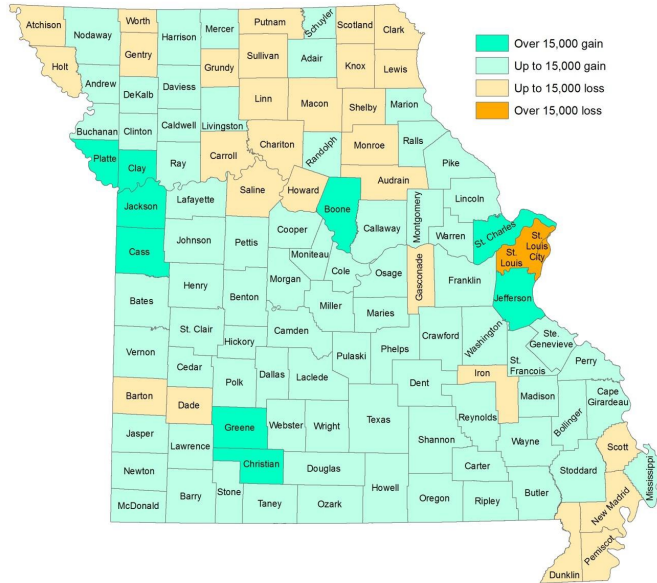
Describe the current workforce, including individuals with barriers to employment, as defined in section 3 of WIOA¹. This population must include individuals with disabilities among other groups² in the economic region and across the LWDA.

¹ Individuals with barriers to employment include displaced homemakers; low-income individuals; Indians, Alaska Natives, and Native Hawaiians; individuals with disabilities, including youth who are individuals with disabilities; older individuals; ex-offenders; homeless individuals, or homeless children and youths; youth who are in or have aged out of the foster care system; individuals who are English-language learners, individuals who have low levels of literacy, and individuals facing substantial cultural barriers; farmworkers (as defined at section 167(i) of WIOA

Geographic Change

While St. Louis and Kansas City remain the largest population centers in Missouri, the most recent decennial census shows some population shifts away from the urban core. The overall population for the Southwest Workforce Development Area has increased by 24,436 persons. Details for all counties are in Table 1.

Missouri Population Change, 2000-2010



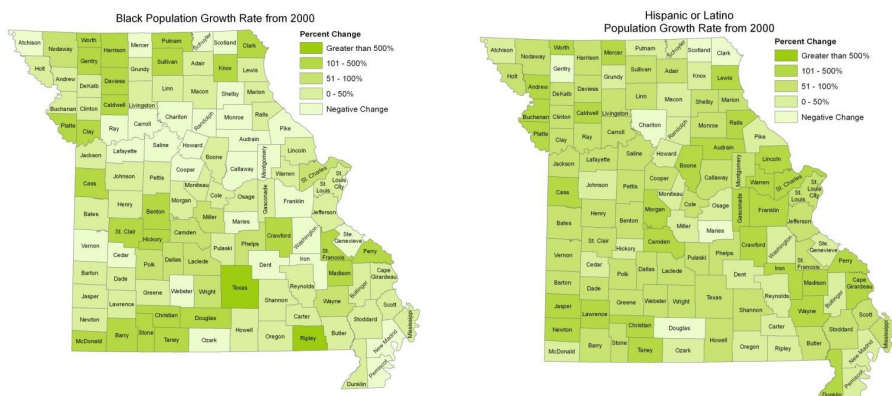
Minority Population Growth

Missouri experienced population increases in the Black and Hispanic or Latino minority groups during the 2000's. The Southwest Region's black population increased by 1,000 persons, accounting for 1.1 percent of Southwest region's total population. Missouri's Black population accounts for 11.6 percent of total state population, and nationally, the Black population accounts for 12.6 percent of total U.S. population.

The Hispanic or Latino population in the Southwest Workforce Development Area has also increased. This minority group numbers about 18,700, an increase of 8,800 persons since 2000. The Hispanic or Latino population represents 6.4 percent of the Southwest's total population. Missouri's 2010 Hispanic or Latino population, in contrast, accounts for 3.5 percent of the state's total population;

and Training and Employment Guidance Letter No. 35-14); individuals within two years of exhausting lifetime eligibility under the Temporary Assistance for Needy Families (TANF) program; single parents (including single pregnant women); and long-term unemployed individuals.
² Veterans, unemployed workers, and youth, and others that the State may identify.

nationally, 16.3 percent of the U.S. population is Hispanic or Latino. The full datasets are available in Table 2: Black Population Rates and Table 3: Hispanic or Latino Population Rates in the Appendix.

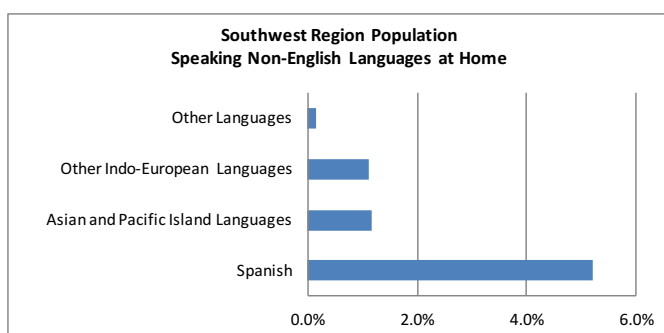


Limited English Proficiency

According to the 2010-2014 American Community Survey 5-Year Estimates, 7.7 percent (13,256) of the Southwest region's 18 to 64 population age cohort spoke a language other than English at home. The most common non-English languages spoken in Southwest area homes was Spanish (5.2 percent); Other Indo-European languages (1.1 percent); Asian and Pacific Island languages (1.2 percent) and Other Languages (0.2 percent).

The total percentage of the population speaking languages other than English at home is higher in the Southwest Region than in Missouri. Statewide, however, 6.6 percent of the population (244,947) spoke a non-English language at home. In Missouri, the most common non-English language is Spanish (2.7 percent), followed by Other Indo-European languages (1.9 percent), Asian and Pacific Island Languages (1.4 percent) and Other Languages (0.5 percent).

The percentage of individuals speaking languages other than English at home across the nation is much higher than the state average. In the U.S., 13.6 percent of the population speaks Spanish at home. Residents speaking Other Indo-European languages and Asian and Pacific Island languages total 3.7 percent each while those speaking Other Languages is 1 percent.

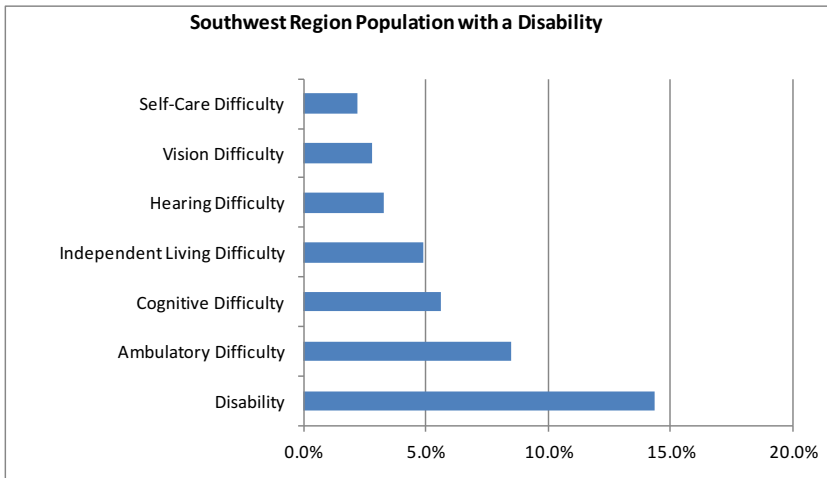


Individuals with Disabilities

According to the American Community Survey 2010-2014 estimates, 14.4 percent, or 24,738 Southwest Area residents age 18-64 had a disability. Ambulatory difficulty was the most prevalent disability type at 8.5 percent of the population. About 5.6 percent of the population had a cognitive difficulty, followed by 4.9 percent with independent living difficulty.

The percentage of individuals with disabilities was consistent with state trends. Statewide, 12.4 percent of residents of the same age group had a disability. Missourians with an ambulatory difficulty was the highest at 6.6 percent, followed by cognitive difficulty (5.4 percent) and independent living difficulty (4.4 percent).

Nationally, 10.2 percent of the population had a disability. Individuals with ambulatory difficulty total 5.2 percent, while 4.3 percent have cognitive difficulty and 3.6 percent have independent living difficulty.

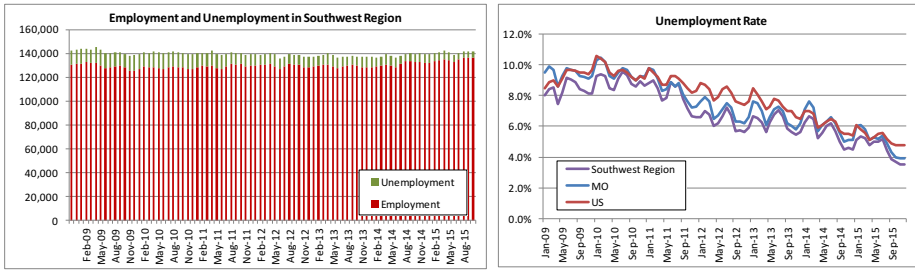


This includes:

1. Employment and Unemployment

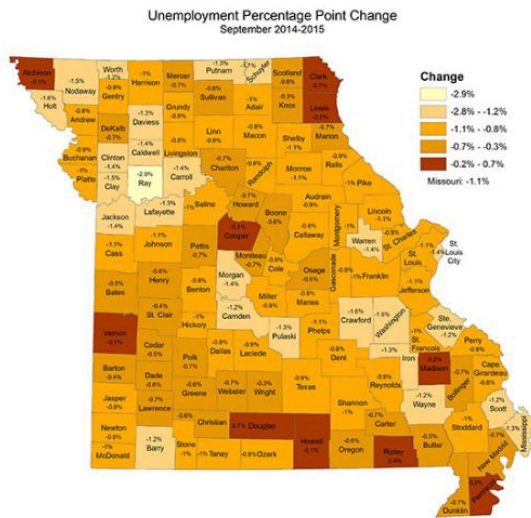
Provide an analysis of current employment and unemployment data and trends in the LWDA.

During the recession, the number of Missourians employed in the Southwest region decreased, while the number of unemployed increased to a high of 9.6 percent. Over time, employers have become more confident in hiring workers, increasing total employment to just over 136,859 at the end of 2015. The unemployment rate has decreased to a low of 3.5 percent in December 2015, below the Missouri unemployment rate of 3.9 percent and the US at 4.8 percent. These numbers, queried from Local Area Unemployment Statistics (LAUS), includes include all employment, including self-employed workers.



Source: U.S. Department of Labor, Bureau of Labor Statistics

Even with the low unemployment rate statewide, Missouri still has pockets where the unemployment rate is high. The brighter news is that unemployment has decreased in every county during the past year. In the seven-county Southwest region, the unemployment rate decreased from 5.01 percent in September 2014 to 3.53 percent in September 2015. Numbers for each county are available in Table 4 of the Appendix.



2. Labor Market Trends

Provide an analysis of key labor-market trends, including across existing industries and occupations.

Industry Employment Trends

The seven-county Southwest Workforce Development Area gained 715 workers from 2009 to 2014, a 0.6 percent increase. The Southwest, however, lags behind the state which experienced a 2.2 percent increase. Regional industries with the largest employment growth were Professional, Scientific, and Technical Services (51.6 percent), Administrative and Support Services (29.6 percent), and Food Manufacturing (19.1 percent). Four industries lost employment: Truck Transportation (-27.7 percent), Hospitals (-14 percent), Nursing and Residential Care Facilities (-5.6 percent), and General Merchandise Stores (-1.3 percent).

NAICS Sector	2009 Employment	2014 Employment	Change	Percent Change
Total Region Employment	111,054	111,769	715	0.6 percent
Educational Services	10,757	11,277	520	4.8 percent
Food Manufacturing	8,258	9,837	1,579	19.1 percent
Food Services and Drinking Places	7,388	8,289	901	12.2 percent
Hospitals	7,342	6,313	-1,029	-14 percent
Truck Transportation	7,347	5,315	-2,032	-27.7 percent
Administrative and Support Services	3,630	4,705	1,075	29.6 percent
Ambulatory Health Care Services	4,041	4,465	424	10.5 percent
General Merchandise Stores	3,758	3,709	-49	-1.3 percent
Nursing and Residential Care Facilities	3,579	3,379	-200	-5.6 percent
Professional, Scientific, and Technical Services	2,199	3,333	1,134	51.6 percent

Industry Wage Trends

The region saw overall wages increase by 4.5 percent, or over \$1,300, lower than the statewide wage growth of 9.4 percent. Wage growth was highest in manufacturing and sales industries. Industries with the highest wage growth during the period were Professional, Scientific, and Technical Services (39.5 percent), Electrical Equipment, Appliance, and Component Manufacturing (20.7 percent), and Merchant Wholesalers, Durable Goods (16.8 percent). Three industries had wages decrease between 2009 and 2014: Truck Transportation (-6.6 percent), Educational Services (-1.9 percent), and Hospitals (-0.7 percent).

NAICS Sector	2009 Wages	2014 Wages	Change	Percent Change
Overall Regional Average Wage	\$31,224	\$32,616	\$1,392	4.5 percent
Hospitals	\$50,124	\$49,788	-\$336	-0.7 percent
Professional, Scientific, and Technical Services	\$33,096	\$46,176	\$13,080	39.5 percent
Electrical Equipment, Appliance, and Component Manufacturing	\$35,208	\$42,480	-\$3,792	20.7 percent
Ambulatory Health Care Services	\$40,716	\$40,920	\$204	0.5 percent
Educational Services	\$41,052	\$40,284	-\$768	-1.9 percent
Fabricated Metal Product Manufacturing	\$35,052	\$39,828	\$4,776	13.6 percent
Truck Transportation	\$42,288	\$39,492	\$3,816	-6.6 percent
Transportation Equipment Manufacturing	\$33,996	\$38,928	\$4,932	14.5 percent
Merchant Wholesalers, Durable Goods	\$32,748	\$38,256	\$5,508	16.8 percent

Motor Vehicle and Parts Dealers	\$32,544	\$37,920	\$5,376	16.5 percent
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Industry Clusters

According to the location quotient indicator, manufacturing is the Southwest Region’s most highly concentrated industry group. The location quotient (LQ) indicator describes how concentrated an industry is in a region in relation to the nation, with 1.00 being the national average. The region’s most concentrated industry is Food Manufacturing (7.08) followed by Electrical Equipment Manufacturing (5.46), Animal Production (4.94), and Truck Transportation (4.90).

NAICS Sector	2009 Location Quotient	2013 Location Quotient
Food Manufacturing	6.83	7.08
Electrical Equipment, Appliance, and Component Manufacturing	4.89	5.46
Animal Production	5.23	4.94
Truck Transportation	5.83	4.90
Furniture and Related Product Manufacturing	8.28	4.48
Fabricated Metal Product Manufacturing	2.76	2.47
General Merchandise Stores	1.71	1.60
Building Material and Garden Equipment and Supplies Dealer	1.27	1.39
Motor Vehicle and Parts Dealers	1.35	1.38
Hospitals	1.32	1.26

Industry demand is consistent with occupational job postings seen in the Top Ten Real-Time Labor Demand Occupations by Job Ads data found in Section IV.B.1. In this table, the highest number of job ads is for Truck Drivers. With a concentration of manufacturers, additional occupations such as Sales Representatives; Customer Service; Laborers; and Maintenance and Repair are heavily advertised.

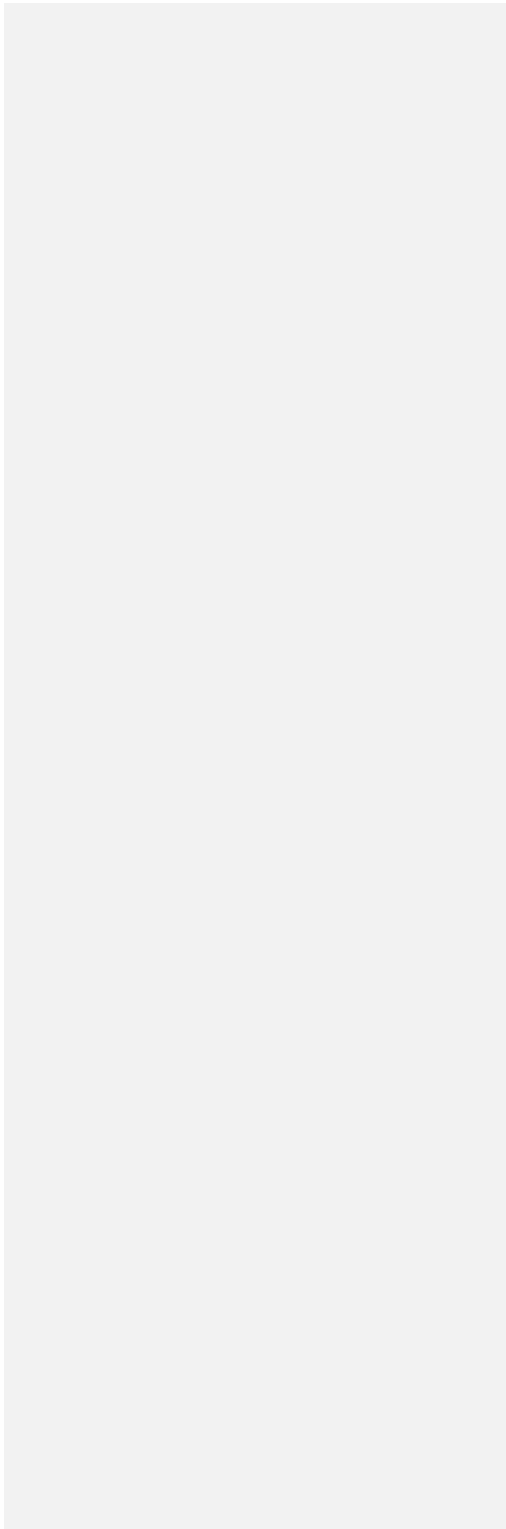
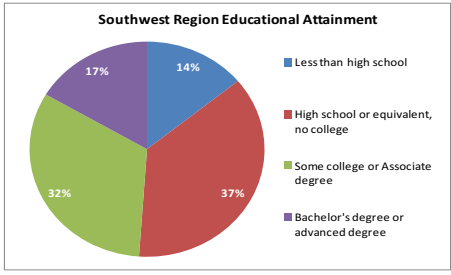
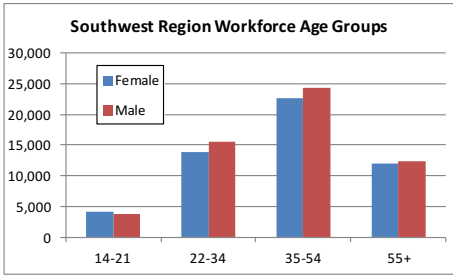
3. Education and Skill Levels of the Workforce

Provide an analysis of the educational and skill levels of the workforce.

Missouri has a workforce of 2,594,137 men and women who are currently working. The Southwest region represents 4.2 percent of that workforce or 108,725 workers. Workforce is defined as persons 14 years of age or older who are gainfully employed.

The state’s workforce is aging. In Missouri, 22 percent of the workforce is age 55 or older; similarly, in the Southwest region, 22 percent of its workforce (both the male and female populations) is 55 and older.

The average educational attainment rate for the Missouri workforce, with a high school diploma or higher, is 88 percent; in the Southwest region, it is 86 percent. Statewide, 12 percent of workers have not graduated high school while 14 percent of the Southwest region’s workforce has less than a high school education.



4. Skill Gaps

Describe apparent “skill gaps.”

Analysis of the skills and education gaps that employers have identified is an important step in determining what training issues need to be addressed. National business surveys point to skills gaps that have negatively impacted the economy, such as a 2015 manufacturing survey that indicated 6 out of 10 positions remain unfilled due to talent shortage, even with a large number of unemployed manufacturing workers available for hire³. MERIC has developed target industry competency models, conducted business surveys, and recently acquired a real-time labor market skills demand tool that provides valuable insight into the needs of Missouri employers.

MERIC conducted Industry Competency Model analysis for many of the state’s targeted industry sectors, such as Energy, Information Technology, Transportation, and Life Sciences. In doing so, the reports revealed that workers will need to enhance their existing skills sets to meet the demands of new and evolving technologies used in these growing industry sectors, and employers seek a good skill mix of both technical and soft skills in their workers. Interdisciplinary knowledge is a key ingredient to success, especially in high-tech sectors. Proficiency in rules and regulations was also rated as highly important and necessary for work in today’s complex business environment.

The Industry Competency Model reports also highlighted issues related to the overall aging of the workforce. The imminent retirement of a large segment of workers across the targeted sectors could result in a shortage of this specialized labor pool. The ability to produce a sustainable pipeline of skilled workers will be important for the success of these sectors and the economy as a whole.

Each year MERIC staff assist the St. Louis Community College to survey hundreds of companies in the St. Louis MSA regarding workforce issues⁴. In 2015 the survey found that 57 percent of businesses identified a “shortage of workers with knowledge or skills” as the main barrier to expanding employment, followed by “economic conditions” at a distance second of 35 percent. The top shortcomings of job applicants were mostly soft skills such as poor

Top Southwest Region Real-Time Labor Demand Skills

Top Baseline Skills Needed	Rank
Communication Skills	1
Organizational Skills	2
Customer Service	3
Writing	4
Problem Solving	5

HEALTHCARE	
Top Specific Skills Needed	Rank
Patient Care	1
Treatment Planning	2
Patient/Family Education and Instruction	3
Neonatal Intensive Care Unit (NICU)	4
Post Anesthesia Care Unit (PACU)	5

INFORMATION TECHNOLOGY	
Top Specific Skills Needed	Rank
SQL	1
Technical Support	2
Software Installation	3
Repair	4
System Implementation	5

FINANCE	
Top Specific Skills Needed	Rank
Accounting	1
Recruiting	2
Business Development	3
Financial Statements	4
Onboarding	5

ENGINEERING	
Top Specific Skills Needed	Rank
Computer Aided Drafting/Design (CAD)	1
Mechanical Engineering	2
Process Improvement	3
Robotics	4
AutoCAD	5

MANUFACTURING/PRODUCTION	
Top Specific Skills Needed	Rank
Inspection	1
Machinery	2
Record Keeping	3
Repair	4
Packaging	5

Source: Burning Glass Technologies (February 1, 2015-January 31, 2016)

³ The skills gap in U.S. manufacturing 2015 and beyond. Deloitte Consulting and the Manufacturing Institute, 2015. Complete report at www.themanufacturinginstitute.org

⁴ State of the St. Louis Workforce 2015. St. Louis Community College Workforce Solutions, August 2015. Available at: <http://www.stlcc.edu/Workforce-Solutions/St-Louis-Workforce/>

work ethic (#1), lack of critical thinking (#2), and lack of communication or interpersonal skills (#3). Lack of general business or industry knowledge rounded out the top four. These shortcomings are consistently the top issues business identify in this survey and mirror the “soft skills” challenge that can be seen across the country in various business surveys. This very large business survey, while limited to the St. Louis MSA, is a good proxy for the issues other businesses face throughout the state. Furthermore, the importance of soft skills revealed in these surveys can be seen in online job ads that consistently rank these skills as a top desire for applicants.

MERIC analyzes the real-time job ads for workforce regions, which are one representation of job demand, versus the supply of job seekers in the state’s workforce development system and develops a report each year highlighting results⁵. An analysis of labor demand and supply in the Southwest Region shows large gaps in Healthcare and Business and Sales occupations. For example, Healthcare and Related Occupation job ads accounted for 18.3 percent of all postings but just 7.3 percent of job seekers were looking for employment in these occupations. These gaps represent opportunities for job seekers, who can get training, to apply for occupations that are in higher demand.

Employers indicate through job advertisements the basic and specialized skills needed to be successful in their business. While these needed skills do not necessarily point to gaps, it does provide a snapshot of skill demand and reinforces some of the findings from earlier surveys and competency model analysis. MERIC researchers analyzed over 13,636 online job advertisements from February 1, 2015 to January 31, 2016 using a tool from Burning Glass Technologies, to determine what skills were in greatest demand over the year.

When considering all occupations, common skills are listed the most in job advertisements and show that basic business fundamentals, communication, organization and customer service skills are the most cited. Writing skills and problem solving complete the list of top five common skills.

Analysis of specific occupational clusters shows more targeted skill needs in jobs related to healthcare, information technology, finance, engineering and manufacturing. Many of these occupational clusters relate to the industries Missouri has targeted for economic growth.

Basic skills cover a broad range of topics, such as reading and writing, applied math, logic flows, information gathering, ethics, etc., and mainly relate to the educational efforts of primary and secondary schools, institutions of higher learning, and workforce training programs. From the workers’ standpoint, many of these skills are hopefully gained through education and early work opportunities as a younger person however evidence from skills gap analysis suggest this is still a challenge. Partnerships by educators, businesses, workforce and economic developers should continue to focus efforts on this issue as these basic skills form the foundation for successful, occupation-specific training to follow.

Specific occupational skills are learned through longer-term employment in an industry which provides training or through the more formal education of apprenticeships, community colleges, or four-year universities. Attaining these skills, outside of business experience and training, presents some challenges to job seekers, particularly those who have been unemployed for a long time period, and to educational institutions. Job seekers need affordable, flexible training alternatives, especially if

⁵ Missouri Labor Supply & Demand Analysis. Missouri Economic Research and Information Center, February 2015. Available at: https://www.missourieconomy.org/pdfs/statewide_labor_supply_n_demand_analysis.pdf

the person needs to work while gaining new skills. Education providers work to keep up with industry trends and technology while also needing to adapt to new, cost-effective learning methods. As with basic skill development, stakeholders in a healthy, growing economy must also partner to meet the needs of both workers and business.

Missouri's opportunities for long-term economic growth will increasingly depend on a well educated, flexible workforce that responds quickly to changing business needs. Targeted efforts to prepare workers start at a young age, are honed through higher education and work experience, and are sustained by a culture and ability to embrace life-long learning. Taking bold, and sometimes difficult, steps to equip Missouri's workforce for success will be one of the strongest economic development tools a state can have in retaining and attracting the industries of the future.

MERIC, the WIOA agency leadership and the Sector Strategy research will strive to incorporate real-time feedback from employers about the current status of labor market information in each region and for the state.

Appendix

Labor Market Data

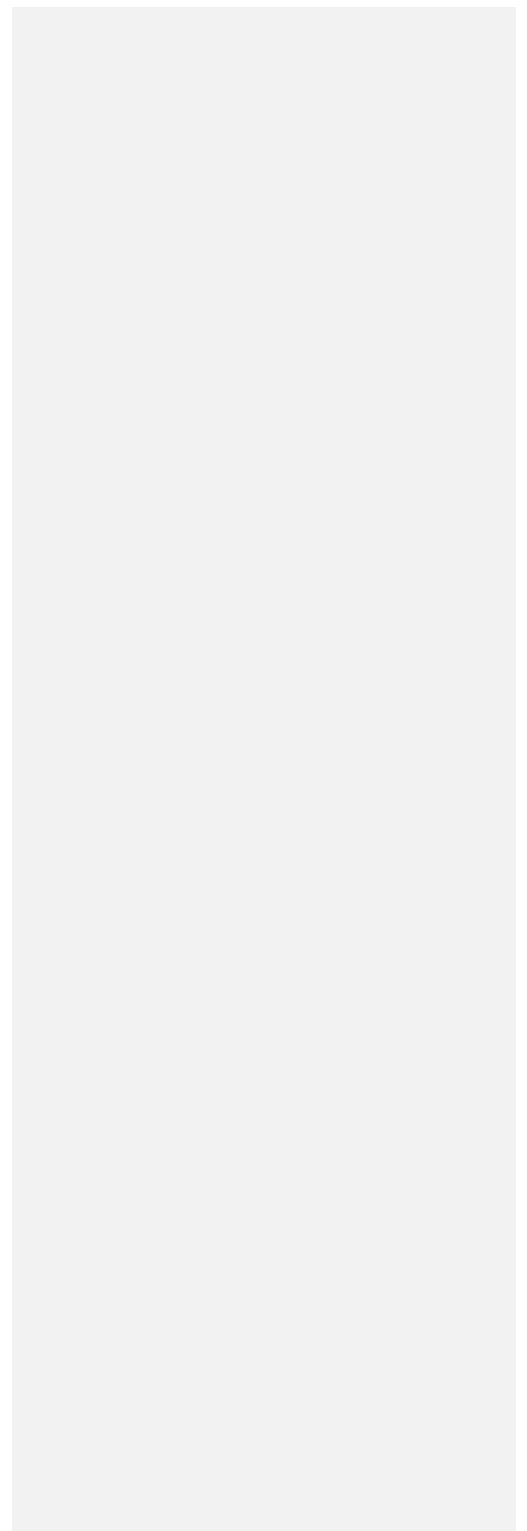


TABLE 1: Missouri Population Change, 2000-2010

County	Population Change	County	Population Change	County	Population Change
Adair	630	Grundy	-171	Perry	839
Andrew	799	Harrison	107	Pettis	2,798
Atchison	-745	Henry	275	Phelps	5,331
Audrain	-324	Hickory	687	Pike	165
Barry	1,587	Holt	-439	Platte	15,541
Barton	-139	Howard	-68	Polk	4,145
Bates	396	Howell	3,162	Pulaski	11,109
Benton	1,876	Iron	-67	Putnam	-244
Bollinger	334	Jackson	19,278	Ralls	541
Boone	27,188	Jasper	12,718	Randolph	751
Buchanan	3,203	Jefferson	20,634	Ray	140
Butler	1,927	Johnson	4,337	Reynolds	7
Caldwell	455	Knox	-230	Ripley	591
Callaway	3,566	Laclede	3,058	Saline	-386
Camden	6,951	Lafayette	421	Schuyler	261
Cape Girardeau	6,981	Lawrence	3,430	Scotland	-140
Carroll	-990	Lewis	-283	Scott	-1,231
Carter	324	Lincoln	13,622	Shannon	117
Cass	17,386	Linn	-993	Shelby	-426
Cedar	249	Livingston	637	St. Charles	76,602
Chariton	-607	Macon	-196	St. Clair	153
Christian	23,137	Madison	426	St. Francois	9,718
Clark	-277	Maries	273	St. Louis County	-17,361
Clay	37,933	Marion	492	St. Louis City	-28,895
Clinton	1,764	McDonald	1,402	Ste. Genevieve	303
Cole	4,593	Mercer	28	Stoddard	263
Cooper	931	Miller	1,184	Stone	3,544
Crawford	1,892	Mississippi	931	Sullivan	-505
Dade	-40	Moniteau	780	Taney	11,972
Dallas	1,116	Monroe	-471	Texas	3,005
Daviess	417	Montgomery	100	Vernon	705
DeKalb	1,295	Morgan	1,256	Warren	7,988
Dent	730	New Madrid	-804	Washington	1,851
Douglas	600	Newton	5,478	Wayne	262
Dunklin	-1,202	Nodaway	1,458	Webster	5,157
Franklin	7,685	Oregon	537	Worth	-211
Gasconade	-120	Osage	816	Wright	860
Gentry	-123	Ozark	181		
Greene	34,783	Pemiscot	-1,751		

Table 2: Black Population Growth Rate, 2000-2010

County	Percent Change	County	Percent Change	County	Percent Change
Adair	36	Grundy	40	Perry	127
Andrew	4	Harrison	150	Pettis	6
Atchison	-87	Henry	0	Phelps	69
Audrain	-11	Hickory	257	Pike	-21
Barry	174	Holt	33	Platte	105
Barton	31	Howard	-24	Polk	93
Bates	49	Howell	37	Pulaski	21
Benton	132	Iron	-17	Putnam	200
Bollinger	28	Jackson	6	Ralls	1
Boone	31	Jasper	46	Randolph	-14
Buchanan	24	Jefferson	33	Ray	-18
Butler	6	Johnson	9	Reynolds	29
Caldwell	233	Knox	250	Ripley	717
Callaway	-12	Laclede	75	St. Charles	96
Camden	88	Lafayette	-1	St. Clair	141
Cape Girardeau	47	Lawrence	7	Ste. Genevieve	-8
Carroll	-13	Lewis	22	St. Francois	146
Carter	40	Lincoln	45	St. Louis County	21
Cass	202	Linn	5	St. Louis City	-12
Cedar	-68	Livingston	8	Saline	-4
Chariton	-42	McDonald	250	Schuyler	-50
Christian	210	Macon	1	Scotland	-70
Clark	280	Madison	127	Scott	5
Clay	135	Maries	-17	Shannon	21
Clinton	1	Marion	8	Shelby	-52
Cole	20	Mercer	-14	Stoddard	2
Cooper	-19	Miller	52	Stone	152
Crawford	103	Mississippi	25	Sullivan	240
Dade	43	Moniteau	4	Taney	225
Dallas	84	Monroe	-26	Texas	1,688
Daviess	475	Montgomery	-19	Vernon	-18
DeKalb	42	Morgan	34	Warren	30
Dent	-7	New Madrid	-1	Washington	-4
Douglas	114	Newton	40	Wayne	73
Dunklin	8	Nodaway	92	Webster	-9
Franklin	-3	Oregon	50	Worth	200
Gasconade	50	Osage	33	Wright	76
Gentry	163	Ozark	-21		
Greene	45	Pemiscot	-7		

Table 3: Hispanic or Latino Population Growth Rate, 2000-2010

County	Percent Change	County	Percent Change	County	Percent Change
Adair	66	Grundy	8	Perry	242
Andrew	110	Harrison	58	Pettis	99
Atchison	28	Henry	84	Phelps	90
Audrain	252	Hickory	34	Pike	12
Barry	60	Holt	86	Platte	100
Barton	94	Howard	39	Polk	76
Bates	54	Howell	55	Pulaski	96
Benton	90	Iron	115	Putnam	13
Bollinger	44	Jackson	61	Ralls	133
Boone	103	Jasper	122	Randolph	46
Buchanan	124	Jefferson	70	Ray	64
Butler	62	Johnson	14	Reynolds	16
Caldwell	113	Knox	31	Ripley	8
Callaway	88	Laclede	79	St. Charles	139
Camden	193	Lafayette	92	St. Clair	79
Cape Girardeau	137	Lawrence	105	Ste. Genevieve	13
Carroll	62	Lewis	106	St. Francois	74
Carter	44	Lincoln	132	St. Louis County	72
Cass	120	Linn	86	St. Louis city	59
Cedar	33	Livingston	93	Saline	83
Chariton	-15	McDonald	27	Schuyler	7
Christian	166	Macon	24	Scotland	-21
Clark	-19	Madison	270	Scott	57
Clay	99	Maries	-27	Shannon	81
Clinton	57	Marion	55	Shelby	65
Cole	96	Mercer	155	Stoddard	54
Cooper	62	Miller	48	Stone	86
Crawford	107	Mississippi	79	Sullivan	97
Dade	81	Moniteau	35	Taney	159
Dallas	77	Monroe	63	Texas	92
Daviess	58	Montgomery	83	Vernon	95
DeKalb	75	Morgan	127	Warren	205
Dent	32	New Madrid	17	Washington	50
Douglas	0	Newton	121	Wayne	115
Dunklin	110	Nodaway	95	Webster	53
Franklin	106	Oregon	16	Worth	229
Gasconade	138	Osage	9	Wright	71
Gentry	-18	Ozark	42		
Greene	85	Pemiscot	8		

Table 4: Unemployment Rates, September 2015 and Change in Unemployment from September 2014

COUNTY	Change in Unemployment Rate		Unemployment Rate Sept 2015	Change in Unemployment Rate		Unemployment Rate Sept 2015	Change in Unemployment Rate	
	Sept 2015	Rate Sept 2014-Sept 2015		Rate Sept 2015	Rate Sept 2014-Sept 2015		Rate Sept 2015	Rate Sept 2014-Sept 2015
ADAIR	4.4	-1.0	GRUNDY	3.8	-0.9	PERRY	3.8	-0.9
ANDREW	3.7	-0.8	HARRISON	4.3	-1.0	PETTIS	4.6	-0.7
ATCHISON	4.3	-0.1	HENRY	5.1	-0.6	PHELPS	4.4	-1.1
AUDRAIN	4.1	-0.9	HICKORY	6.2	-1.0	PIKE	4.0	-1.0
BARRY	4.4	-1.2	HOLT	2.8	-1.6	PLATTE	3.8	-1.0
BARTON	5.2	-0.4	HOWARD	4.1	-0.7	POLK	5.0	-0.7
BATES	5.6	-0.5	HOWELL	6.0	-0.1	PULASKI	5.4	-1.3
BENTON	5.9	-0.8	IRON	6.9	-1.3	PUTNAM	3.4	-1.3
BOLLINGER	5.0	-0.7	JACKSON	5.5	-1.4	RALLS	3.6	-0.9
BOONE	3.1	-0.6	JASPER	3.9	-0.9	RANDOLPH	5.1	-0.9
BUCHANAN	4.3	-0.9	JEFFERSON	4.3	-1.1	RAY	4.4	-2.9
BUTLER	5.6	-0.5	JOHNSON	4.6	-1.1	REYNOLDS	6.1	-0.9
CALDWELL	3.6	-1.4	KNOX	3.3	-0.3	RIPLEY	7.2	0.4
CALLAWAY	4.2	-0.8	LACLEDE	6.1	-0.9	ST. CHARLES	3.5	-0.9
CAMDEN	5.0	-1.2	LAFAYETTE	4.0	-1.3	ST. CLAIR	6.2	-0.4
CAPE GIRARDEA	4.1	-0.8	LAWRENCE	4.3	-0.7	STE. GENEVIEVE	4.6	-1.2
CARROLL	5.1	-1.4	LEWIS	4.4	-0.2	ST. FRANCOIS	5.5	-1.0
CARTER	6.3	-0.7	LINCOLN	4.4	-1.1	ST. LOUIS COUNTY	4.3	-1.1
CASS	4.3	-1.1	LINN	6.5	-0.9	ST. LOUIS CITY	5.7	-1.4
CEDAR	4.9	-0.5	LIVINGSTON	3.9	-0.8	SALINE	4.0	-1.0
CHARITON	4.3	-0.7	MCDONALD	4.0	-1.0	SCHUYLER	4.4	-1.7
CHRISTIAN	3.8	-0.6	MACON	4.5	-0.8	SCOTLAND	3.8	-0.6
CLARK	6.6	0.7	MADISON	5.4	-0.2	SCOTT	4.9	-1.2
CLAY	4.0	-1.5	MARIES	4.7	-0.8	SHANNON	6.8	-1.0
CLINTON	3.9	-1.4	MARION	4.0	-0.7	SHELBY	4.2	-1.1
COLE	3.6	-0.9	MERCER	3.8	-0.7	STODDARD	5.6	-1.0
COOPER	5.2	-0.1	MILLER	4.8	-0.9	STONE	5.6	-1.0
CRAWFORD	5.0	-1.6	MISSISSIPPI	5.2	-1.3	SULLIVAN	5.4	-0.6
DADE	4.7	-0.6	MONITEAU	4.4	-0.7	TANEY	5.4	-1.0
DALLAS	5.6	-0.8	MONROE	4.5	-1.1	TEXAS	6.0	-0.9
DAVISS	4.0	-1.3	MONTGOMERY	4.5	-1.0	VERNON	4.9	-0.1
DEKALB	3.9	-0.7	MORGAN	5.6	-1.4	WARREN	4.2	-1.4
DENT	5.2	-0.9	NEW MADRID	5.8	-0.7	WASHINGTON	5.7	-1.5
DOUGLAS	7.8	0.7	NEWTON	4.0	-0.8	WAYNE	4.9	-1.2
DUNKLIN	6.9	-0.7	NODAWAY	3.8	-1.5	WEBSTER	4.6	-0.7
FRANKLIN	4.4	-1.0	OREGON	5.8	-0.6	WORTH	2.5	-1.2
GASCONADE	3.7	-0.8	OSAGE	3.5	-0.5	WRIGHT	5.9	-0.3
GENTRY	3.9	-0.8	OZARK	6.9	-0.9			
GREENE	3.9	-0.6	PEMISCOT	8.4	0.2			