

THE Missouri ECONOMIC DATABOOK

*A summary of regional economic indicators
for the state of Missouri*



AUGUST 22, 2016

FEDERAL RESERVE BANK of KANSAS CITY

SUMMARY OF CURRENT MISSOURI ECONOMIC CONDITIONS

In Missouri, the unemployment rate was 4.7 percent in July, and total payroll employment grew 0.8 percent compared to the previous year. Employment growth was mixed across industries, with the strongest gains in the financial activities and professional and business services. Missouri nominal personal income grew 4.4 percent in the first quarter of 2016 compared to the previous year, with workplace earnings up 5.3 percent. Home prices increased 6.5 percent in the first quarter of 2016 compared to a year ago, while single-family and multifamily permits recorded a 5.8 and 42.6 percent change, respectively, so far this year. Missouri exports were 5.8 percent higher in the second quarter of 2016 compared to the same period in 2015.

This databook provides current economic indicators to help monitor trends and allow comparison of past information. These indicators include: employment; employment by industry; county and state unemployment; personal income; home prices; housing indicators; manufacturing activity; and exports. These indicators can be found on the following pages.



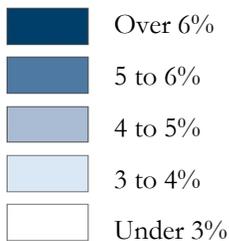
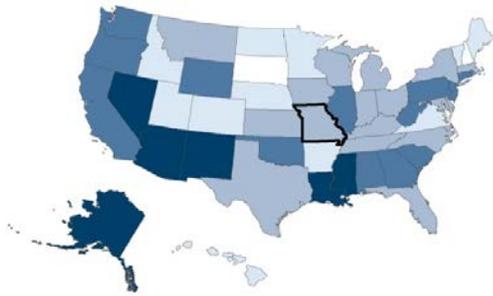
Jason Brown is a Senior Economist and Regional Executive at the Federal Reserve Bank of Kansas City. In this role, Brown is the Federal Reserve Bank of Kansas City's regional economist in Kansas and Missouri. He is responsible for briefing the Kansas City Fed's President on the economy in these states and the Tenth District.

Unemployment Rates

Seasonally Adjusted

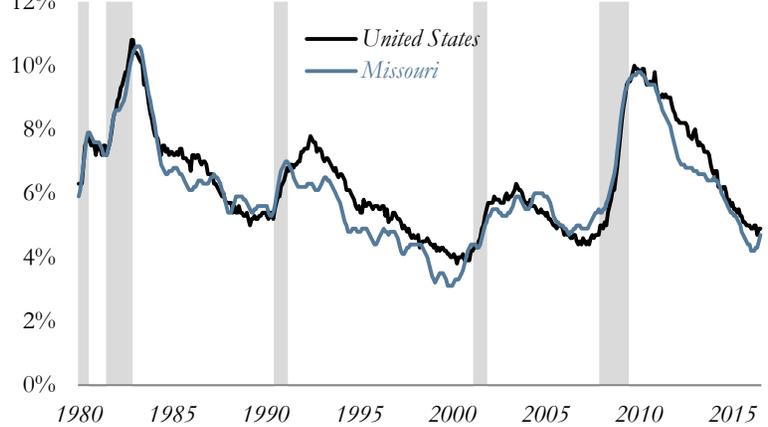
July 2016 Unemployment Rates

Seasonally Adjusted



July 2016		
	United States	Missouri
Unemployment Rate	4.9%	4.7%
Unemployment Rate, Last Year	5.3%	4.8%

Unemployment Rates, Seasonally Adjusted



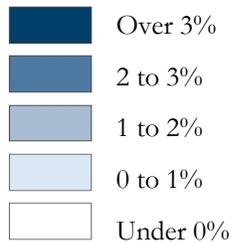
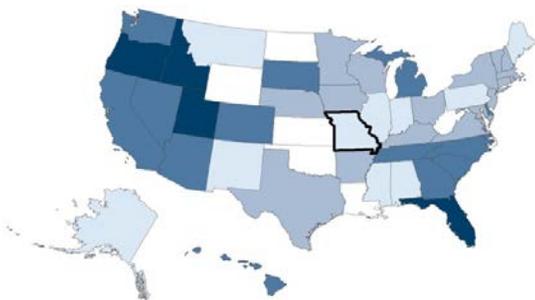
Note: Gray bars indicate recession.

Payroll Employment

Seasonally Adjusted

July 2016 Payroll Employment

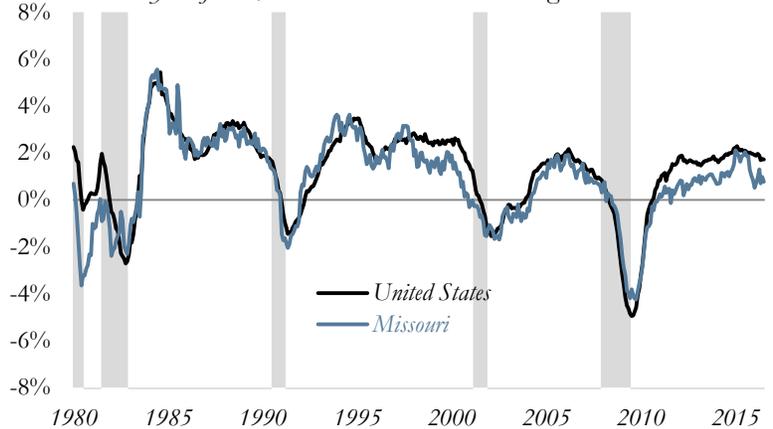
Seasonally Adjusted, Year-over-Year Percent Change



July 2016		
	United States	Missouri
Jobs (Thousands)	144,448.0	2,816.6
Change from Last Year	1.7%	0.8%

Payroll Employment

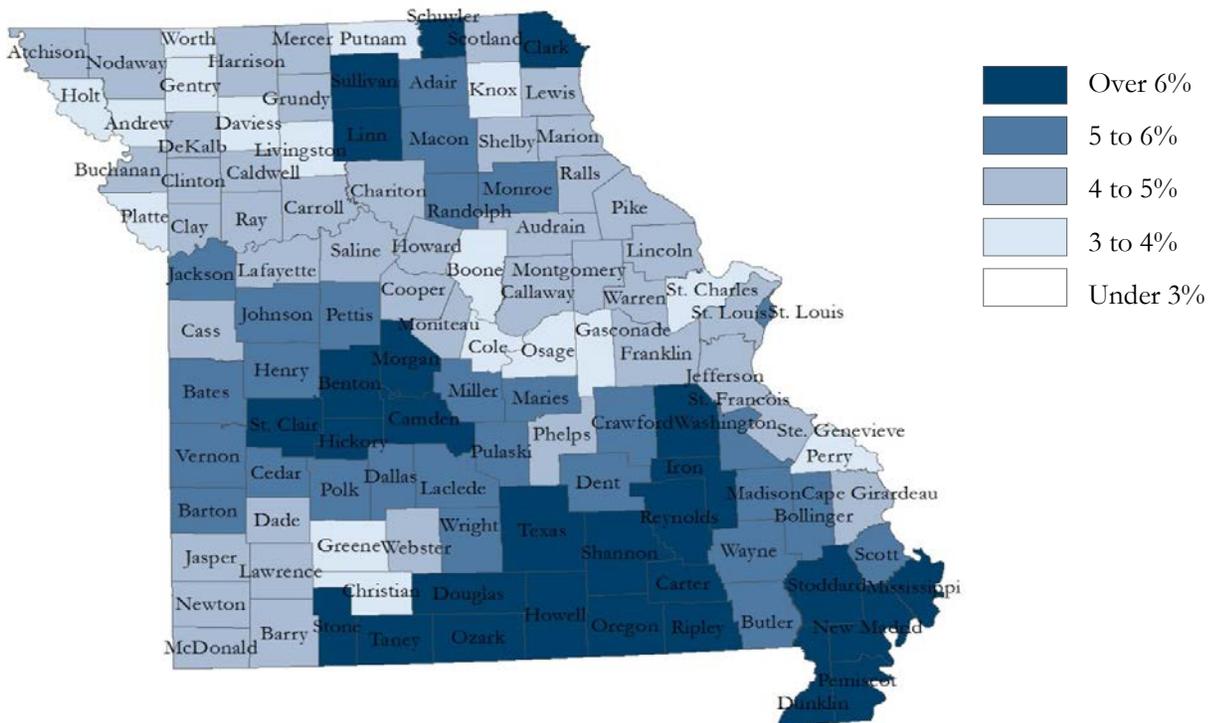
Seasonally Adjusted, Year-over-Year Percent Change



Note: Gray bars indicate recession.

Source: Bureau of Labor Statistics/Haver Analytics

June 2016 Unemployment Rates & Civilian Labor Force
Seasonally Adjusted



	<i>Percent Unemployed</i>	<i>Labor Force (Thousands)</i>		<i>Percent Unemployed</i>	<i>Labor Force (Thousands)</i>		
United States	4.9%	158,880	19	Oregon	6.5	4.2	
Missouri	4.5	3,144	20	Douglas	6.5	5.2	
1	Pemiscot	8.9	7.1	21	Schuyler	6.4	4.0
2	New Madrid	8.3	9.2	22	Benton	6.3	7.3
3	Dunklin	8.2	13.3	23	Morgan	6.2	8.3
4	Taney	8.0	26.7	24	Camden	6.2	18.8
5	Carter	7.6	2.6	25	St. Clair	6.2	1.9
6	Clark	7.6	3.5	26	Sullivan	6.1	2.9
7	Stone	7.5	13.8	27	Hickory	6.1	3.8
8	Shannon	7.5	544.5	28	Butler	6.0	19.2
9	Ozark	7.4	3.7	29	Adair	6.0	10.6
10	Ripley	7.4	5.4	30	Wright	5.9	7.8
11	Linn	7.3	5.3	31	Miller	5.9	11.9
12	Iron	6.9	3.9	32	Scott	5.8	26.5
13	Reynolds	6.8	2.8	33	Dent	5.8	6.2
14	Mississippi	6.7	6.6	34	Crawford	5.7	11.1
15	Texas	6.7	9.5	35	Bates	5.7	8.5
16	Stoddard	6.6	13.6	36	Laclede	5.6	16.1
17	Washington	6.6	10.7	37	St. Francois	5.6	2.5
18	Howell	6.5	16.7	38	Wayne	5.6	5.8

Source: Bureau of Labor Statistics/Haver Analytics

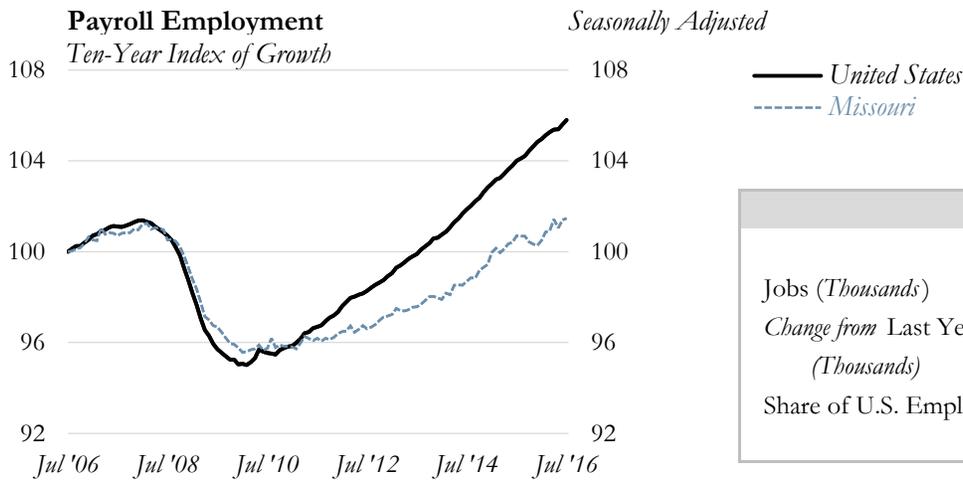
June 2016 Unemployment Rates & Civilian Labor Force

		<i>Percent Unemployed</i>	<i>Labor Force (Thousands)</i>			<i>Percent Unemployed</i>	<i>Labor Force (Thousands)</i>
39	Cedar	5.6	6.0	78	Atchison	4.4	2.9
40	Maries	5.5	5.6	79	Newton	4.4	28.8
41	Pulaski	5.5	14.9	80	Callaway	4.4	22.0
42	Dallas	5.5	7.2	81	Clinton	4.4	11.1
43	St. Louis (City)	5.5	3.3	82	Jefferson	4.3	119.3
44	Bollinger	5.4	5.8	83	Cape Girardeau	4.3	41.6
45	Randolph	5.4	10.5	84	Cass	4.3	54.6
46	Barton	5.4	5.4	85	Scotland	4.3	9.1
47	Vernon	5.3	10.0	86	Audrain	4.3	11.4
48	Madison	5.3	7.6	87	Grundy	4.3	5.0
49	Monroe	5.2	4.3	88	Mercer	4.2	2.0
50	Henry	5.2	10.2	89	St. Louis	4.2	20.8
51	Johnson	5.2	23.5	90	Jasper	4.2	58.0
52	Jackson	5.2	366.4	91	Buchanan	4.2	46.6
53	Marion	5.1	4.0	92	Warren	4.1	17.6
54	Polk	5.0	14.8	93	Ralls	4.1	5.8
55	Pettis	5.0	21.6	94	Harrison	4.1	4.1
56	Nodaway	5.0	11.3	95	Chariton	4.1	4.0
57	Carroll	5.0	4.9	96	Shelby	4.1	163.7
58	Ray	4.9	11.4	97	Clay	4.1	133.4
59	Cooper	4.9	7.7	98	Macon	4.0	11.1
60	Webster	4.9	17.1	99	Daviess	4.0	4.2
61	Phelps	4.9	19.8	100	Livingston	4.0	7.5
62	Barry	4.9	15.3	101	Putnam	3.9	2.6
63	Ste. Genevieve	4.7	3.1	102	Christian	3.9	43.9
64	Saline	4.7	219.1	103	Gasconade	3.9	7.8
65	Caldwell	4.7	4.6	104	Andrew	3.9	10.0
66	Pike	4.6	8.2	105	Platte	3.8	55.8
67	Dade	4.6	3.7	106	Cole	3.8	39.9
68	Lincoln	4.6	27.3	107	Greene	3.7	153.2
69	Moniteau	4.6	7.5	108	Knox	3.7	2.1
70	Lawrence	4.5	18.2	109	Perry	3.6	10.2
71	Franklin	4.5	53.5	110	Gentry	3.6	3.7
72	Howard	4.5	5.2	111	St. Charles	3.6	11.3
73	Lewis	4.5	5.3	112	Osage	3.6	7.4
74	Montgomery	4.5	5.8	113	Holt	3.5	2.8
75	DeKalb	4.5	5.1	114	Worth	3.4	1.3
76	McDonald	4.5	15.0	115	Boone	3.3	100.9
77	Lafayette	4.4	17.6				

Source: Bureau of Labor Statistics/Haver Analytics

Payroll Employment

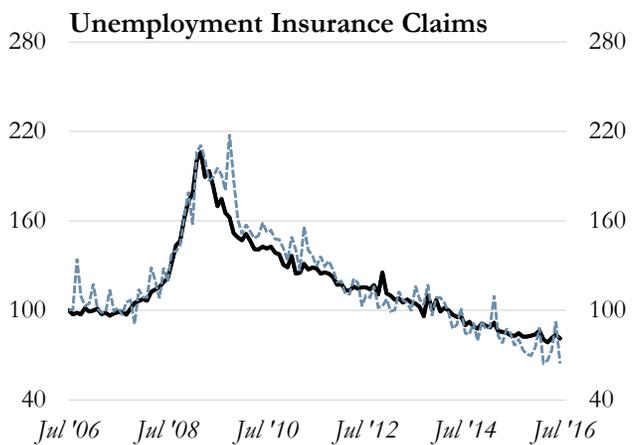
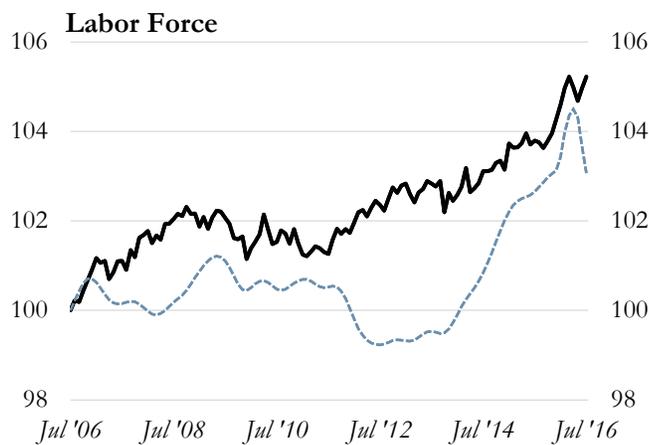
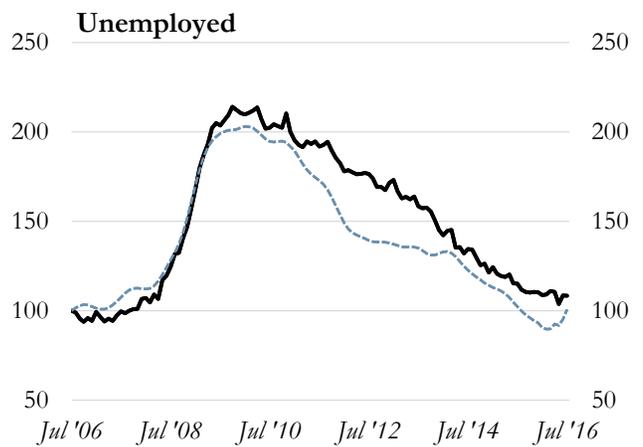
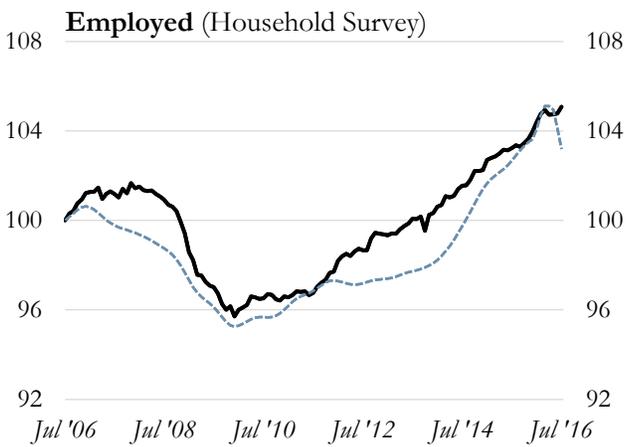
Seasonally Adjusted



July 2016		
	United States	Missouri
Jobs (Thousands)	144,448.0	2,816.6
Change from Last Year (Thousands)	2,447.0	21.5
Share of U.S. Employment		1.9%

Labor Force Dynamics

Ten-Year Index of Growth, Seasonally Adjusted

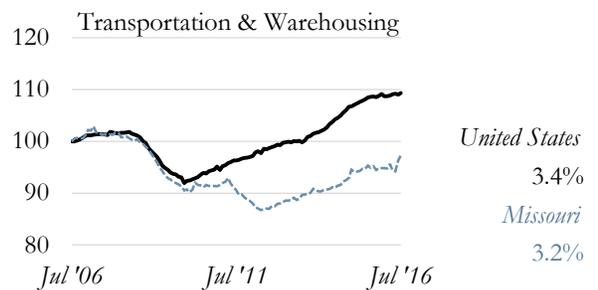
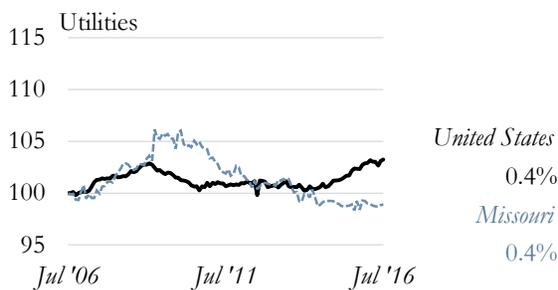
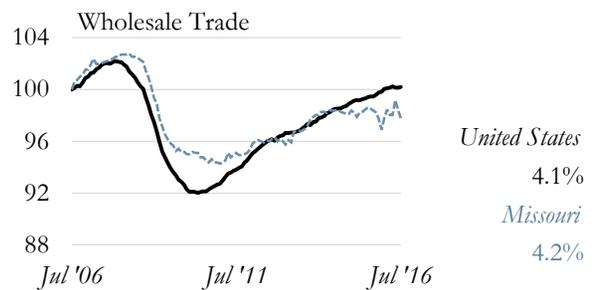
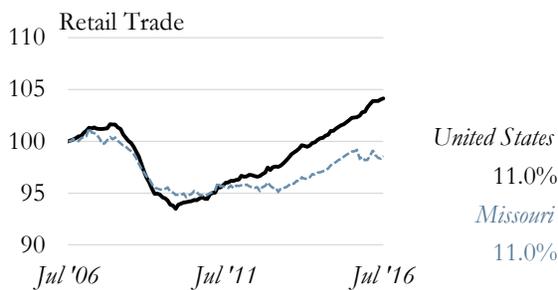
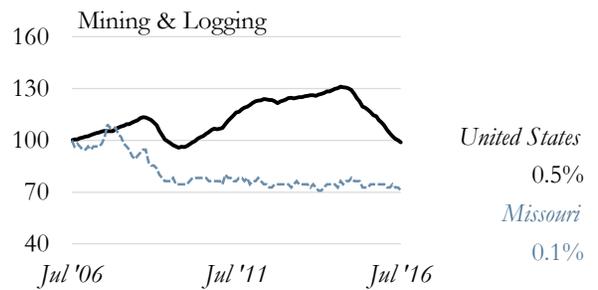
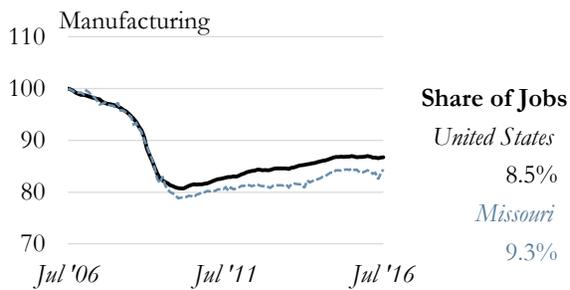
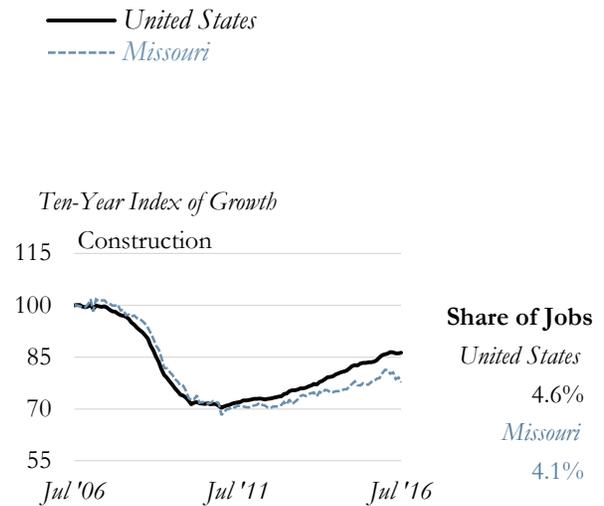
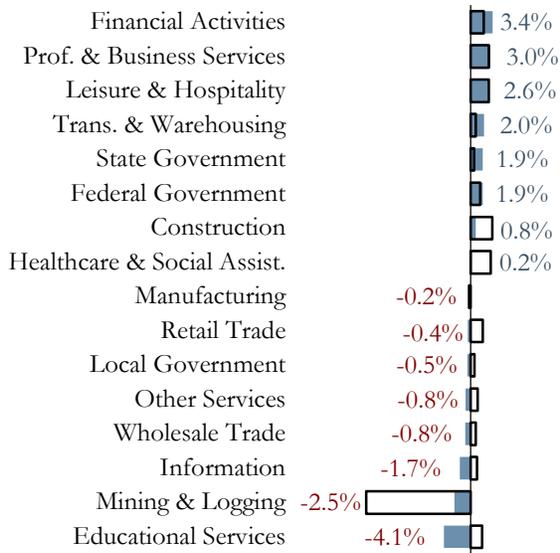


Source: Bureau of Labor Statistics & Department of Labor/Haver Analytics

Payroll Employment by Industry

Seasonally Adjusted

July 2016 *Percent Change Year-over-Year*

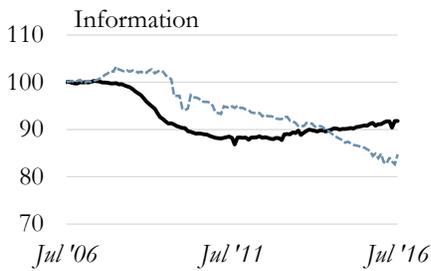


Source: Bureau of Labor Statistics/Haver Analytics

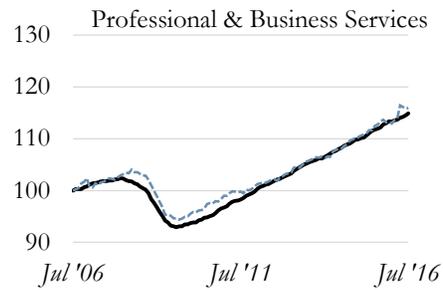
Payroll Employment by Industry

Ten-Year Index of Growth, Seasonally Adjusted

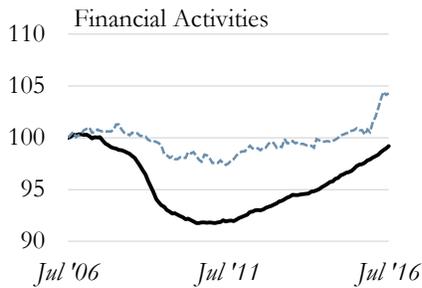
— United States
 - - - - Missouri



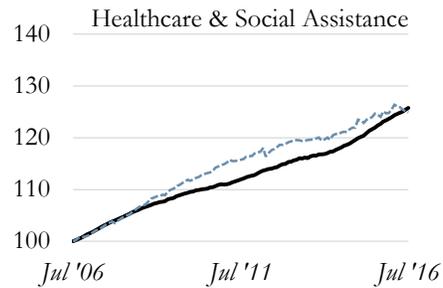
Share of Jobs
 United States 1.9%
 Missouri 1.9%



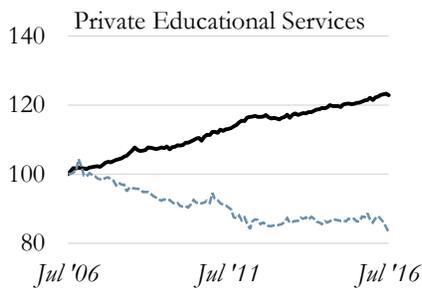
Share of Jobs
 United States 14.0%
 Missouri 13.5%



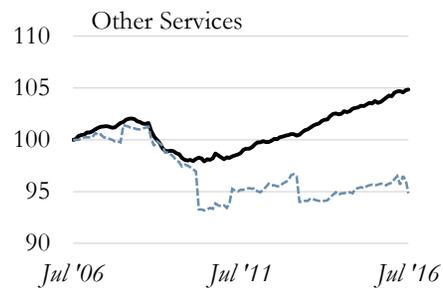
United States 5.7%
 Missouri 6.1%



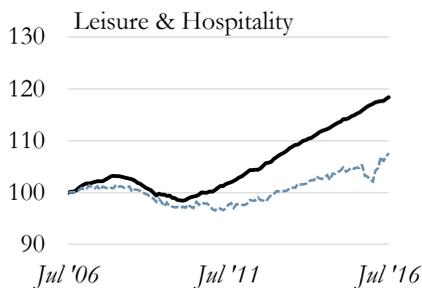
United States 13.3%
 Missouri 14.1%



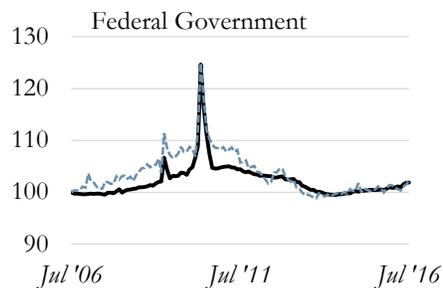
United States 2.4%
 Missouri 1.8%



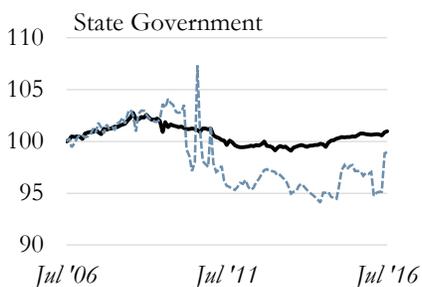
United States 3.9%
 Missouri 4.0%



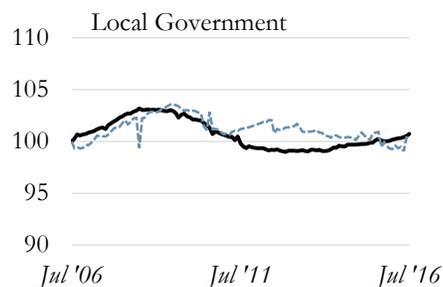
United States 10.8%
 Missouri 10.6%



United States 1.9%
 Missouri 1.9%



United States 3.5%
 Missouri 3.7%

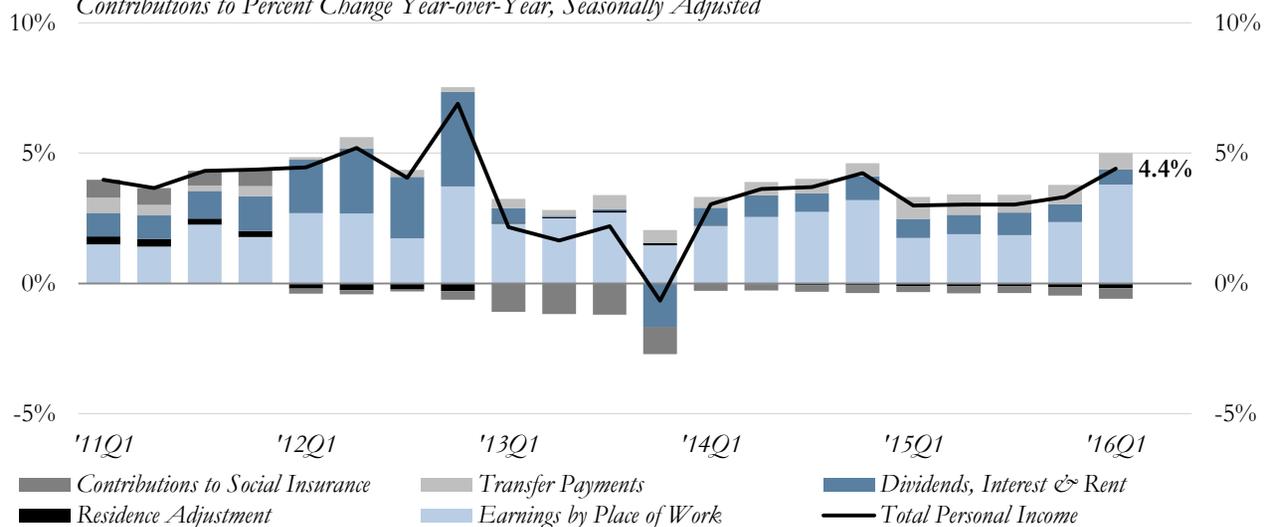


United States 9.9%
 Missouri 9.9%

Source: Bureau of Labor Statistics/Haver Analytics

Missouri Nominal Personal Income Growth

Contributions to Percent Change Year-over-Year, Seasonally Adjusted

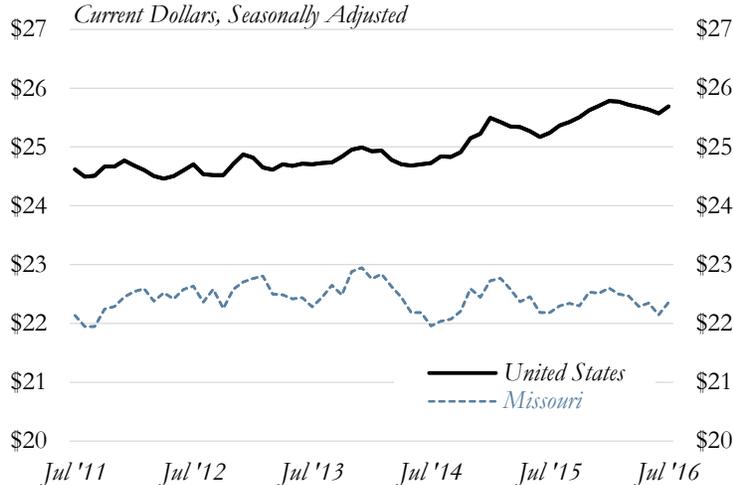


2016Q1	Percent Change Year-over-Year		Share of Personal Income	
	United States	Missouri	United States	Missouri
Total Personal Income	3.7%	4.4%		
Earnings by Place of Work	4.1%	5.3%	71.8%	72.6%
Social Insurance Contributions*	-3.9%	-5.1%	-7.8%	-8.0%
Residence Adjustment		9.2%		-2.1%
Dividends, Interest & Rent	1.8%	3.2%	18.6%	18.0%
Transfer Payments	4.0%	3.2%	17.4%	19.5%

*Subtracted from personal income.

Real Average Hourly Wage

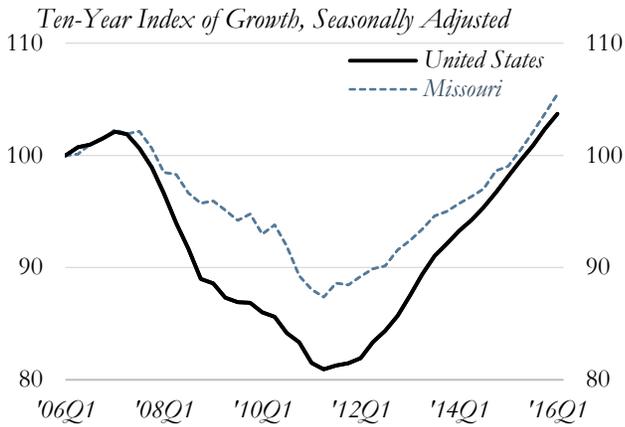
Current Dollars, Seasonally Adjusted



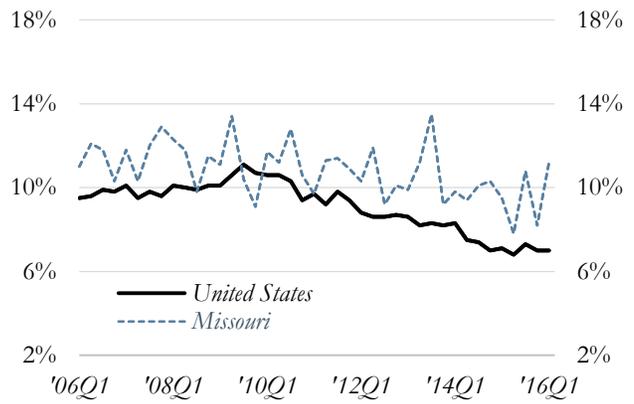
July 2016		
Average Hourly Wage	United States	Missouri
	\$25.69	\$22.36
<i>Real Change from</i>		
Last Month	0.5%	1.0%
Last Year	1.8%	0.8%

Source: Bureau of Economic Analysis & Bureau of Labor Statistics/Haver Analytics

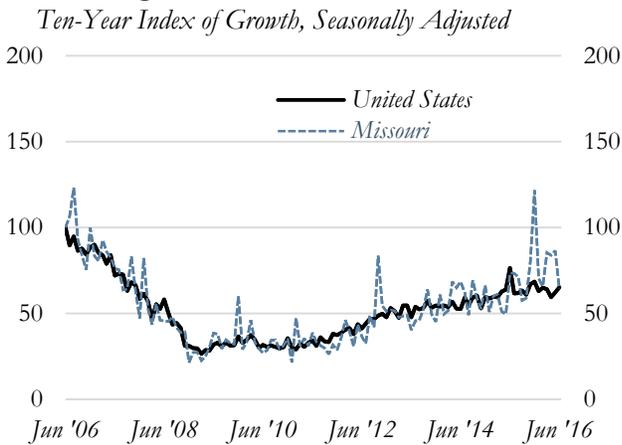
FHFA Purchase-Only Home Price Index



Rental Vacancy Rates



Housing Permits

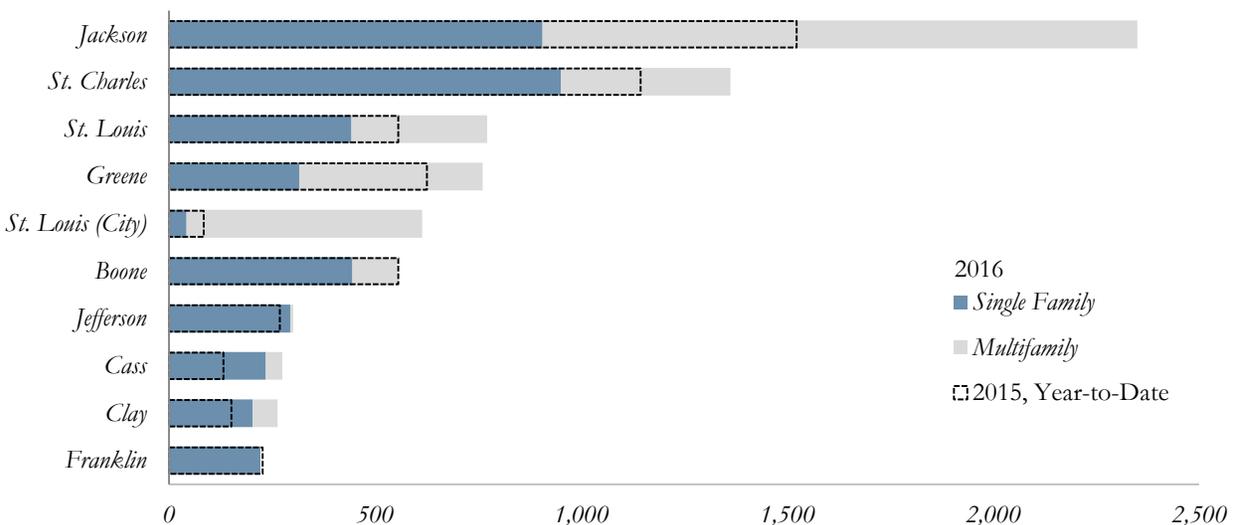


Summary Statistics		
	<i>United States</i>	<i>Missouri</i>
Prices (2016Q1)*	5.7%	6.5%
Vacancy Rates (2016Q1)	7.0%	11.2%
Permits (Year-to-Date)*		
<i>Single Family</i>	10.1%	5.8%
<i>Multifamily</i>	-16.2%	42.6%

*Percent change year-over-year.

Top 10 Missouri Counties for Permit Activity

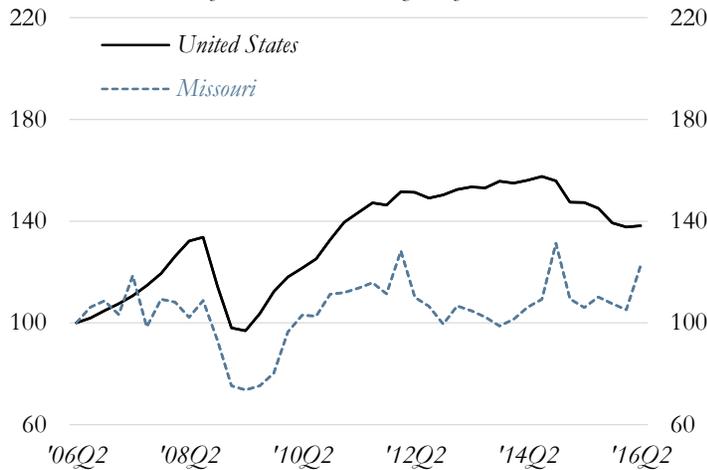
Year-to-Date through June



Source: Federal Housing Finance Agency (FHFA) & Census Bureau/Haver Analytics

Global Exports

Ten-Year Index of Growth, Seasonally Adjusted

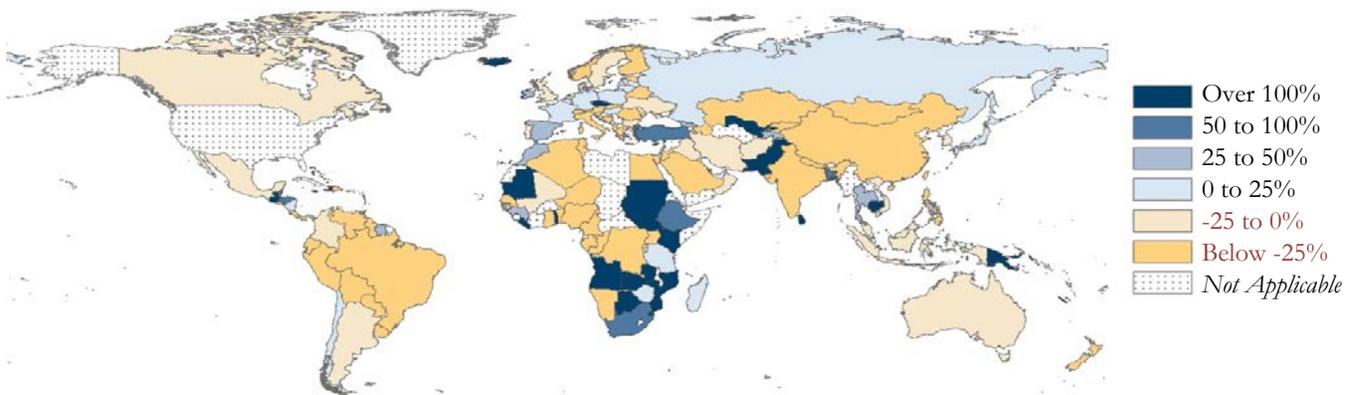


2016Q2		
	United States	Missouri
Exports (Millions)	\$354,644.0	\$3,837.5
<i>Change from</i>		
Last Quarter	0.4%	16.5%
Last Year (year-to-date)	-6.4%	5.8%
Share of U.S. Activity		1.1%

2015		
Exports as a	United States	Missouri
Percent of GDP	8.3%	4.6%

Missouri Exports Year-to-Date through 2016Q2

Percent Change Year-over-Year



Top Markets	Share
1 Canada	43.0%
2 Mexico	17.0
3 China*	6.1
4 Japan	3.4
5 Belgium	3.1
6 Germany	2.8
7 South Korea	2.7
8 United Kingdom	2.1
9 Singapore	1.7
10 Australia	1.4

Top Exports	Share
1 Transportation Equip.	33.1%
2 Chemicals & Rare Earth Metals	16.0
3 Machinery (Except Electrical)	9.7
4 Food	9.0
5 Electronic Equip. & Appliances	4.8
6 Computers & Electronics	4.6
7 Fabricated Metal Products	4.1
8 Agriculture & Livestock	3.0
9 Plastics & Rubber Products	2.3
10 Primary Metals	2.1

*China includes Hong Kong, Taiwan, and Macao.

Source: Census Bureau, WISERTrade & Bureau of Economic Analysis/Haver Analytics

Pages 2 - 4: County unemployment rates typically lag state data releases by one month. Gray bars show recessionary periods as designated by the National Bureau of Economic Research. The "official" and most commonly reported unemployment rate is calculated as the number of unemployed workers divided by the total civilian labor force. These data are reported from the Bureau of Labor Statistics Current Population Survey, or commonly called the "Household" survey.

Page 5: Nonfarm employment data from the Bureau of Labor Statistics Current Employment Survey are commonly called "Payroll" employment data. Estimates from this survey are revised throughout the year and a major revision or "benchmark" of the data occurs in March of each year. "Payroll" and "Household" surveys are released monthly, providing the most current estimates of employment published by the Bureau of Labor Statistics. Because methodologies differ between surveys, employment estimates also differ. For more information, visit:

http://www.bls.gov/web/empsit/ces_cps_trends.pdf

Initial claims show monthly applications for initial claims for state unemployment insurance benefits.

Pages 6 and 7: Payroll employment by industry is shown for each of the major two-digit North American Industrial Classification System industries.

Page 8: Personal income provides a measure of all income received by residents of a given geographic area. Data shown are in nominal terms (not adjusted for inflation). Transfer payments include social benefits such as unemployment insurance, Social Security, and Medicaid. Contributions to social insurance are subtracted from personal income. These contributions include taxes paid by businesses and employees that support social insurance programs such as unemployment insurance, Social Security, and Medicaid. The residence adjustment adds income received outside of a recipient's state of residence and makes a corresponding subtraction from the area where this income was earned or received. Real average hourly wages are calculated as total earnings divided by total employment for a given geographic area. Data are adjusted for inflation using the consumer price index for all urban areas (CPI-U) and are indexed to the most current month of data.

Page 9: Home price indices estimate regional growth in home values based on repeat sales data for detached single family residential properties. Monthly single and multifamily housing permits data are not revised and therefore may not sum to published year-end totals.

Page 10: Exports measure the total physical movement of a given product from the United States to a foreign country.

Data Revisions

Most data are revised periodically to correct for errors and incorporate additional information as it becomes available. Data shown in this report are subject to change.

Seasonal Adjustments

Most data are seasonally adjusted to remove variance caused by seasonal fluctuations in economic activity. Data in this report show the seasonal adjustments of data publishers where available. In other cases, Census X-12 adjustments were applied.

Regional Economic Analysis

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