

THE *Kansas* ECONOMIC DATABOOK

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



SEPTEMBER 24, 2018

FEDERAL RESERVE BANK *of* KANSAS CITY

SUMMARY OF CURRENT KANSAS ECONOMIC CONDITIONS

In Kansas, the unemployment rate was 3.3 percent in August, and total payroll employment grew 1.9 percent compared to the previous year. Employment growth was broad-based across industries, with the strongest gains in the transportation and warehousing and state government sectors. Kansas nominal personal income grew 2.2 percent in the first quarter of 2018 compared to the previous year, with workplace earnings up 1.9 percent. Home prices increased 5.5 percent in the second quarter of 2018 compared to a year ago, while single-family and multifamily permits recorded a -10.8 and 14.6 percent change, respectively, year-to-date through July 2018. In June 2018, crude oil production was down 5.9 percent over last year. Kansas exports were 1.4 percent higher in the second quarter of 2018 compared to the same period in 2017.

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; oil, gas and coal production; and exports. These indicators can be found on the following pages.



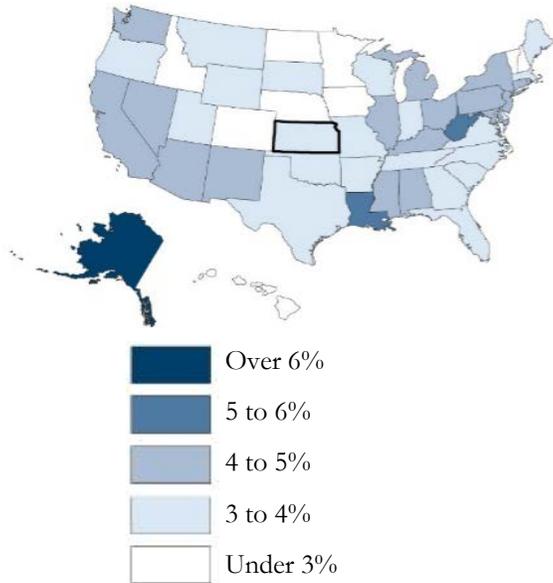
Jason Brown is an Assistant Vice President, Economist, and Regional Executive at the Federal Reserve Bank of Kansas City. In this role, Brown is the Federal Reserve Bank of Kansas City's regional economist in Kansas and Missouri. He is responsible for briefing the Kansas City Fed's President on the economy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

Unemployment Rates

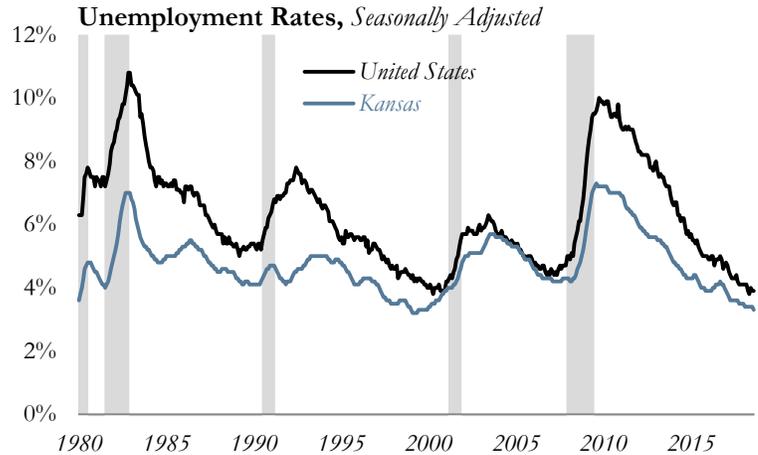
Seasonally Adjusted

August 2018 Unemployment Rates

Seasonally Adjusted



August 2018		
	<i>United States</i>	<i>Kansas</i>
Unemployment Rate	3.9%	3.3%
Unemployment Rate, <i>Last Year</i>	4.4%	3.6%



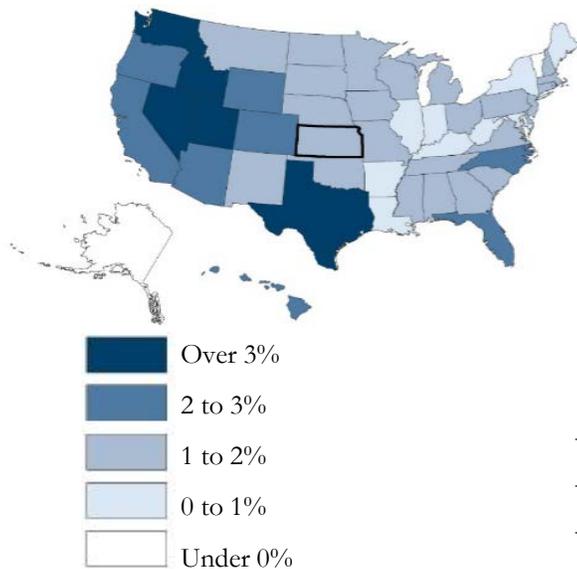
Note: Gray bars indicate recession.

Payroll Employment

Seasonally Adjusted

August 2018 Payroll Employment

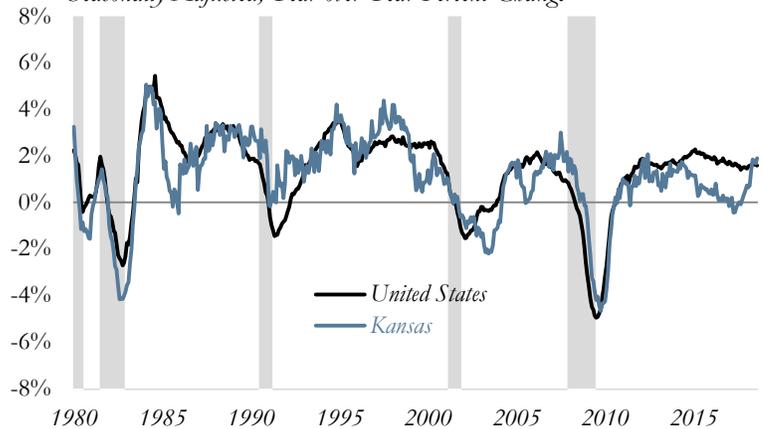
Seasonally Adjusted, Year-over-Year Percent Change



August 2018		
	<i>United States</i>	<i>Kansas</i>
Jobs (<i>Thousands</i>)	149,279.0	1,430.3
<i>Change from Last Year</i>	1.6%	1.9%

Payroll Employment

Seasonally Adjusted, Year-over-Year Percent Change



Note: Gray bars indicate recession.

Source: Bureau of Labor Statistics/Haver Analytics

July 2018 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	3.9%	162,245.0	23	Allen	6.3	
Kansas	3.4	1,478.3	24	Leavenworth	36.6	
1	Linn	6.4	4.4	25	Lyon	16.7
2	Geary	5.4	11.6	26	Shawnee	89.7
3	Woodson	5.0	1.6	27	Sumner	10.8
4	Coffey	5.0	4.0	28	Morton	1.2
5	Neosho	4.8	5.9	29	Cowley	16.9
6	Wyandotte	4.8	78.2	30	Franklin	14.3
7	Atchison	4.6	7.0	31	Dickinson	9.2
8	Wilson	4.6	4.0	32	Reno	29.7
9	Bourbon	4.4	7.1	33	Butler	31.9
10	Montgomery	4.2	14.6	34	Trego	1.4
11	Labette	4.2	10.3	35	Jefferson	9.9
12	Crawford	4.2	18.8	36	Seward	9.7
13	Graham	4.0	1.1	37	Ottawa	3.0
14	Chautauqua	4.0	1.4	38	Elk	1.1
15	Greenwood	3.9	3.2	39	Brown	5.3
16	Osage	3.9	7.8	40	Kingman	3.4
17	Cherokee	3.8	10.0	41	Decatur	1.3
18	Sedgwick	3.8	244.7	42	Barton	13.4
19	Doniphan	3.7	4.3	43	Clay	3.8
20	Cloud	3.7	3.7	44	Wabaunsee	3.6
21	Anderson	3.7	4.1	45	Marion	6.1
22	Miami	3.7	17.4	46	Lane	0.8

Source: Bureau of Labor Statistics/Haver Analytics

July 2018 Unemployment Rates & Civilian Labor Force

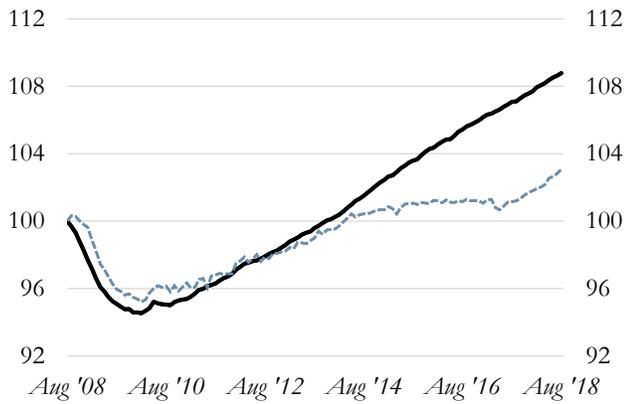
		<i>Percent Unemployed</i>	<i>Labor Force (Thousands)</i>			<i>Percent Unemployed</i>	<i>Labor Force (Thousands)</i>
47	Sherman	3.0	2.9	77	Wallace	2.6	0.8
48	Saline	3.0	30.3	78	Ford	2.5	17.4
49	Russell	3.0	3.4	79	Finney	2.5	20.2
50	Douglas	3.0	65.0	80	Edwards	2.5	1.6
51	Rooks	3.0	2.5	81	Kearny	2.5	2.1
52	Jackson	3.0	7.1	82	Barber	2.4	2.4
53	Republic	3.0	2.4	83	Clark	2.4	1.1
54	Harvey	2.9	16.9	84	Ellis	2.4	16.9
55	Johnson	2.9	336.6	85	Hodgeman	2.4	1.0
56	Pawnee	2.9	3.0	86	Stafford	2.4	2.0
57	Stevens	2.9	2.7	87	Gove	2.4	1.4
58	Rice	2.9	5.3	88	Cheyenne	2.3	1.3
59	Jewell	2.9	1.3	89	Mitchell	2.3	3.4
60	Harper	2.9	2.7	90	Kiowa	2.3	1.3
61	Grant	2.9	3.4	91	Phillips	2.3	2.8
62	Ellsworth	2.8	2.7	92	Smith	2.3	2.0
63	Morris	2.8	3.0	93	Sheridan	2.2	1.4
64	Pottawatomie	2.8	12.1	94	Lincoln	2.2	1.7
65	Riley	2.8	34.9	95	Meade	2.2	2.4
66	Rush	2.8	1.7	96	Nemaha	2.1	5.6
67	Marshall	2.8	5.5	97	Wichita	2.1	1.2
68	Washington	2.8	3.0	98	Haskell	2.0	2.2
69	Pratt	2.7	5.0	99	Norton	2.0	2.7
70	McPherson	2.7	16.3	100	Gray	2.0	3.4
71	Chase	2.7	1.5	101	Scott	2.0	2.9
72	Ness	2.7	1.3	102	Rawlins	1.9	1.5
73	Stanton	2.7	1.0	103	Greeley	1.9	0.9
74	Osborne	2.7	1.9	104	Logan	1.8	1.7
75	Thomas	2.6	4.3	105	Hamilton	1.8	1.6
76	Comanche	2.6	0.9				

Source: Bureau of Labor Statistics/Haver Analytics

Payroll Employment

Seasonally Adjusted

Payroll Employment
Ten-Year Index of Growth



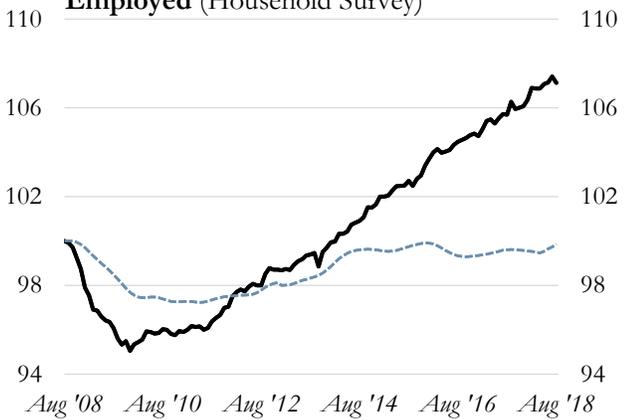
— United States
- - - Kansas

August 2018		
	United States	Kansas
Jobs (Thousands)	149,279.0	1,430.3
Change from Last Year (Thousands)	2,330.0	26.6
Share of U.S. Employment		1.0%

Labor Force Dynamics

Ten-Year Index of Growth, Seasonally Adjusted

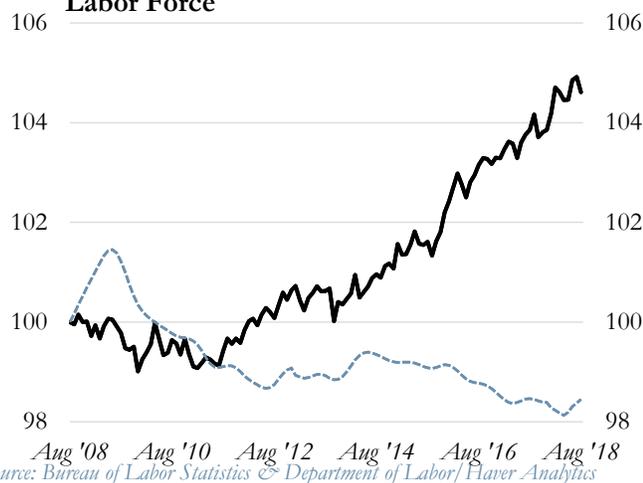
Employed (Household Survey)



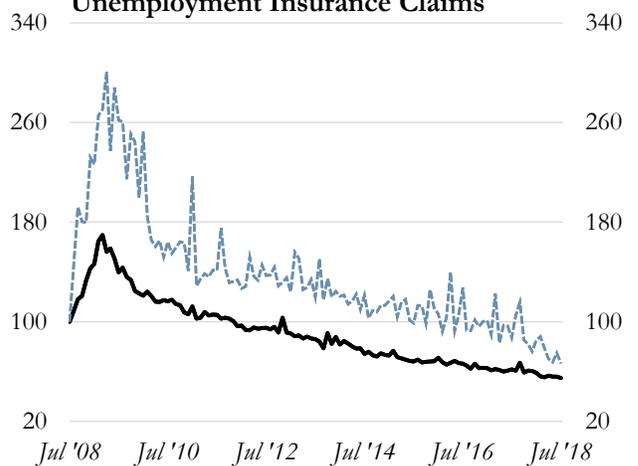
Unemployed



Labor Force



Unemployment Insurance Claims



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

Payroll Employment by Industry

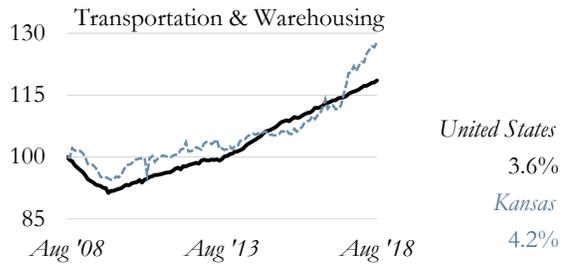
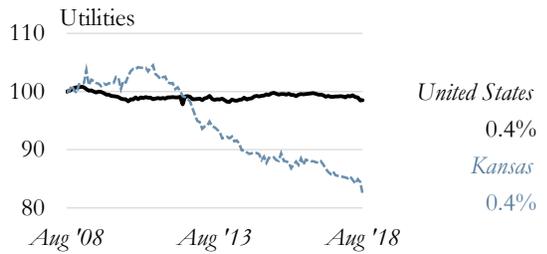
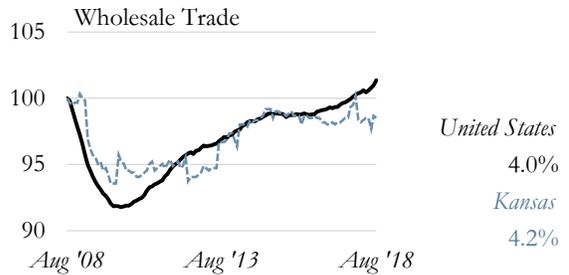
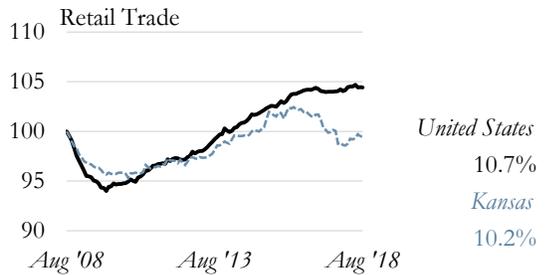
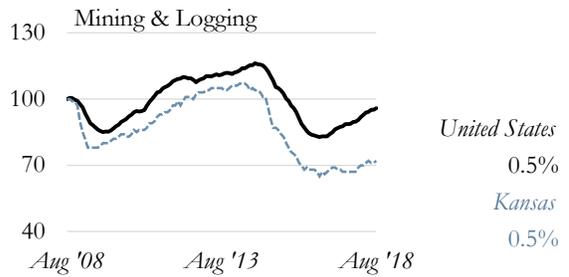
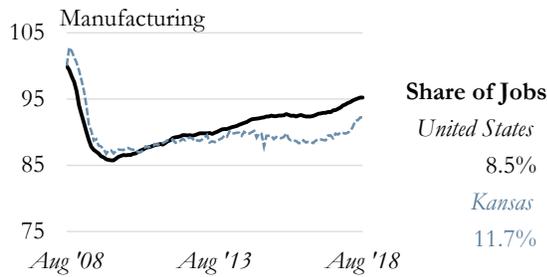
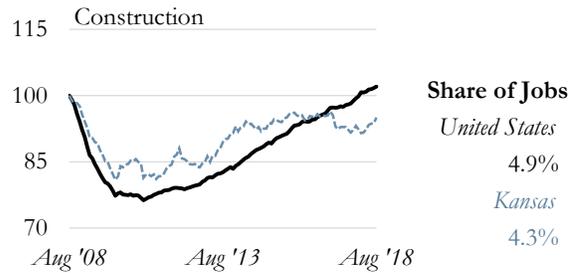
Seasonally Adjusted

August 2018 *Percent Change Year-over-Year*



— United States
 - - - Kansas

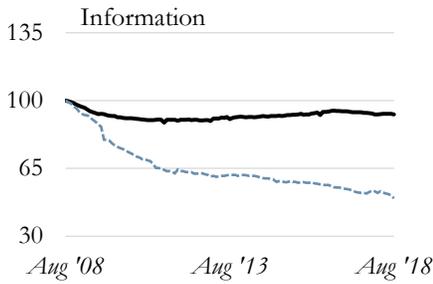
Ten-Year Index of Growth



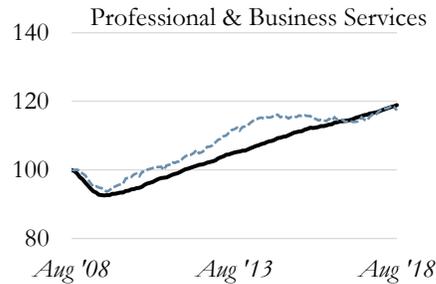
Source: Bureau of Labor Statistics/Haver Analytics

Payroll Employment by Industry
Ten-Year Index of Growth, Seasonally Adjusted

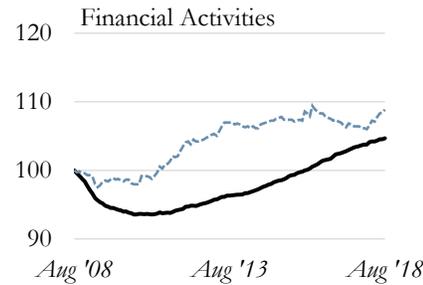
— United States
 - - - - Kansas



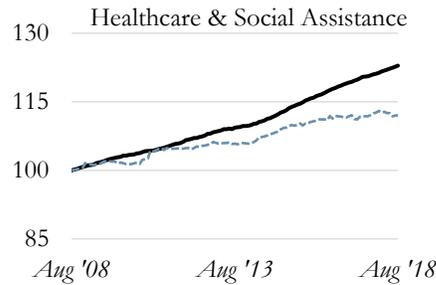
Share of Jobs
 United States
 1.9%
 Kansas
 1.3%



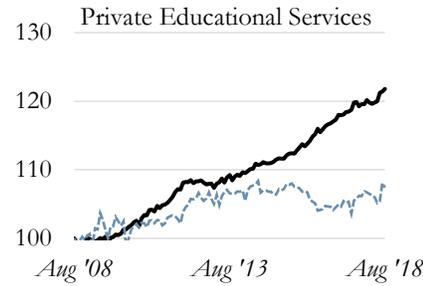
Share of Jobs
 United States
 14.1%
 Kansas
 12.7%



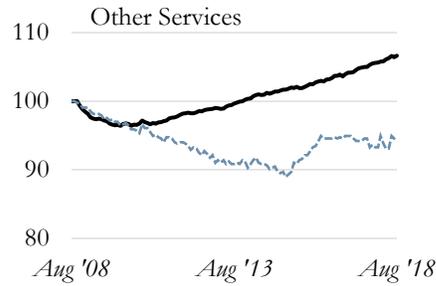
Share of Jobs
 United States
 5.8%
 Kansas
 5.6%



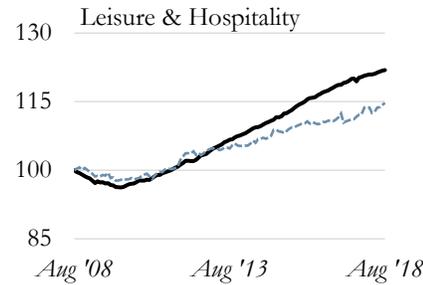
Share of Jobs
 United States
 13.4%
 Kansas
 12.5%



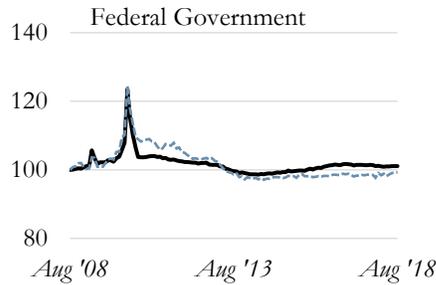
Share of Jobs
 United States
 2.5%
 Kansas
 1.3%



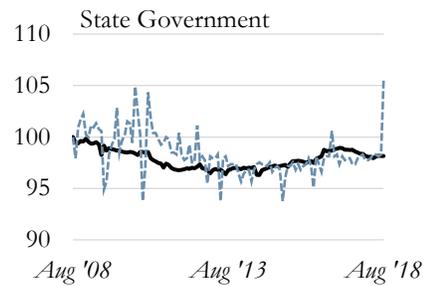
Share of Jobs
 United States
 3.9%
 Kansas
 3.6%



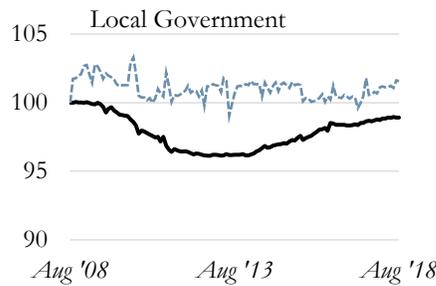
Share of Jobs
 United States
 11.0%
 Kansas
 9.3%



Share of Jobs
 United States
 1.9%
 Kansas
 1.8%



Share of Jobs
 United States
 3.4%
 Kansas
 3.9%

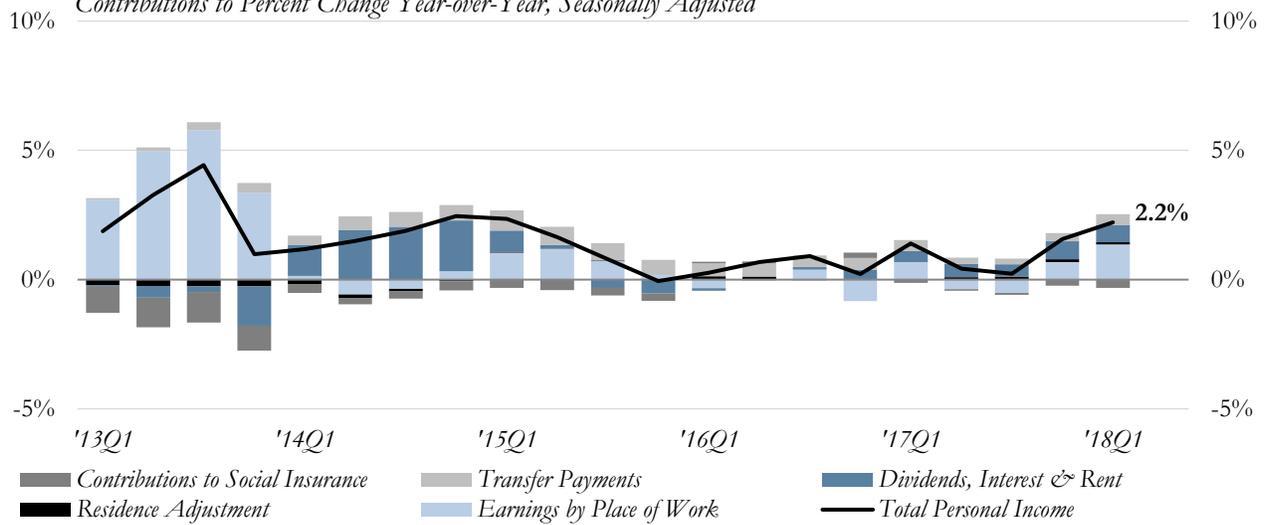


Share of Jobs
 United States
 9.7%
 Kansas
 12.7%

Source: Bureau of Labor Statistics/Haver Analytics

Kansas Nominal Personal Income Growth

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

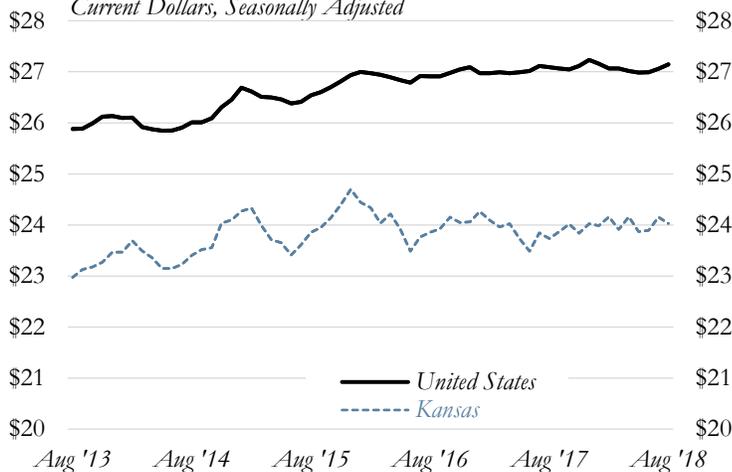


2018Q1	Percent Change Year-over-Year		Share of Personal Income	
	United States	Kansas	United States	Kansas
Total Personal Income	4.3%	2.2%		
Earnings by Place of Work	4.6%	1.9%	70.8%	71.2%
Social Insurance Contributions*	-4.9%	-4.0%	-7.8%	-8.1%
Residence Adjustment		7.7%		1.2%
Dividends, Interest & Rent	4.3%	3.5%	20.0%	19.6%
Transfer Payments	3.5%	2.6%	16.9%	16.2%

*Subtracted from personal income.

Real Average Hourly Wage

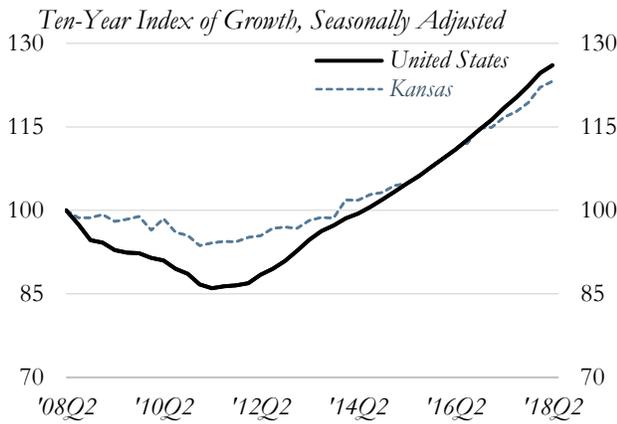
Current Dollars, Seasonally Adjusted



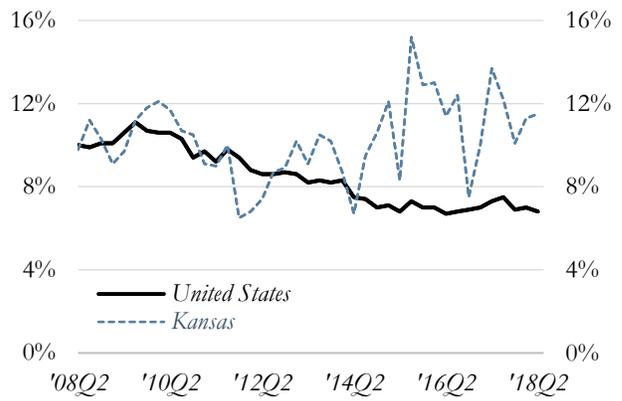
August 2018		
Average	United States	Kansas
Hourly Wage	\$27.14	\$24.03
<i>Real Change from</i>		
Last Month	0.3%	-0.5%
Last Year	0.2%	1.2%

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

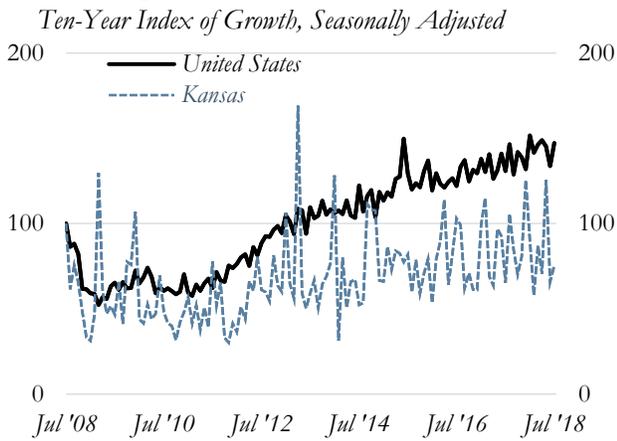
FHFA Purchase-Only Home Price Index



Rental Vacancy Rates



Housing Permits

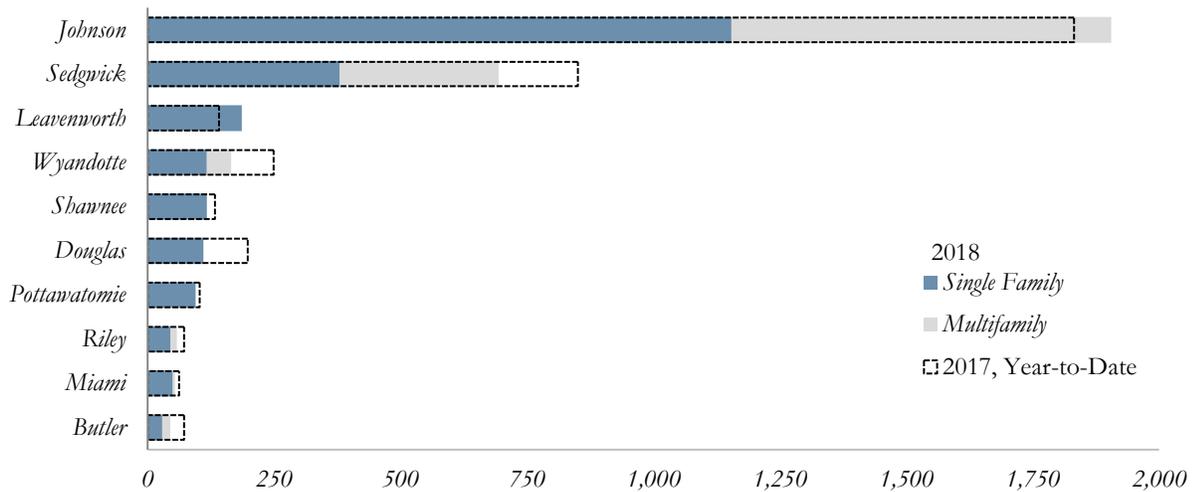


Summary Statistics		
	United States	Kansas
Prices (2018Q2)*	6.5%	5.5%
Vacancy Rates (2018Q2)	6.8%	11.5%
Permits (Year-to-Date)*		
Single Family	7.0%	-10.8%
Multifamily	6.7%	14.6%

*Percent change year-over-year.

Top 10 Kansas Counties for Permit Activity

Year-to-Date through July

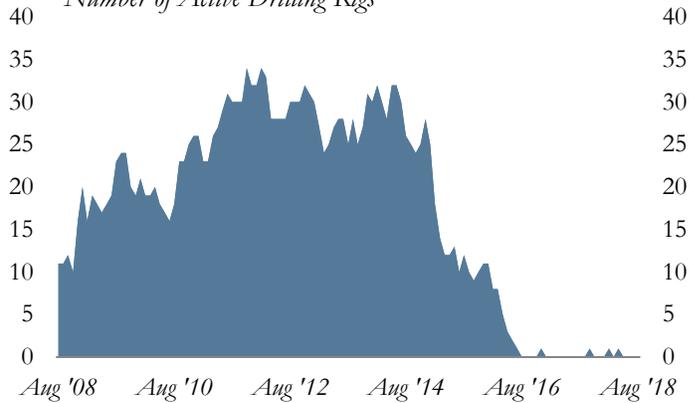


Source: Federal Housing Finance Agency (FHFA) & Census Bureau/Haver Analytics

Kansas Energy Activity

Oil & Gas Rig Counts

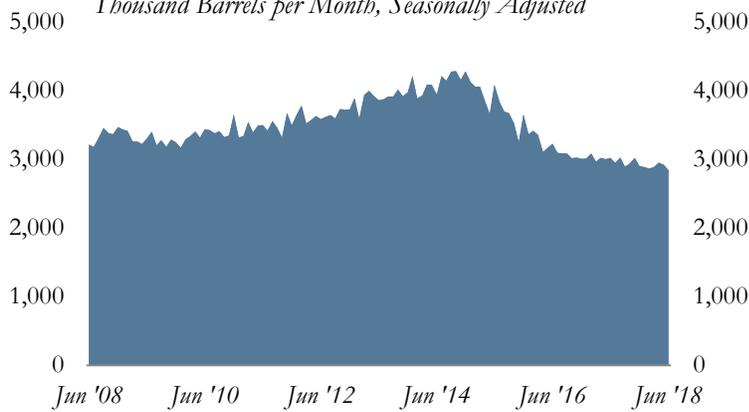
Number of Active Drilling Rigs



August 2018		
	United States	Kansas
Rig Count	1,050	0
<i>Change from</i>		
Last Month	0	0
Last Year	103	0
Share of U.S. Activity		0.0%

Crude Oil Production

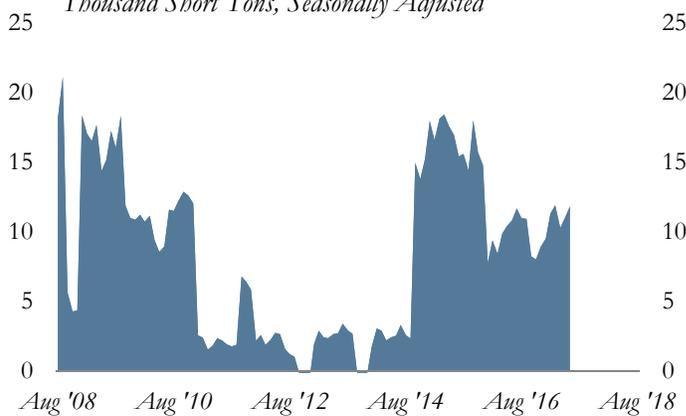
Thousand Barrels per Month, Seasonally Adjusted



June 2018		
	United States	Kansas
Production	329,547	2,843
<i>Change from</i>		
Last Month	3.4%	-2.6%
Last Year	17.7%	-5.9%
Share of U.S. Activity		0.9%

Coal Production

Thousand Short Tons, Seasonally Adjusted

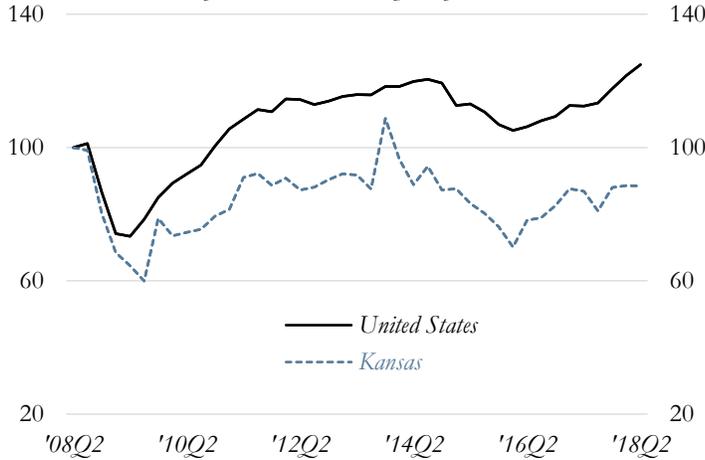


August 2018		
	United States	Kansas
Production	62,504	0
<i>Change from</i>		
Last Month	-1.4%	N/A
Last Year	-1.7%	N/A
Share of U.S. Activity		0.0%

Source: Baker Hughes & Department of Energy, Energy Information Administration/Haver Analytics

Global Exports

Ten-Year Index of Growth, Seasonally Adjusted

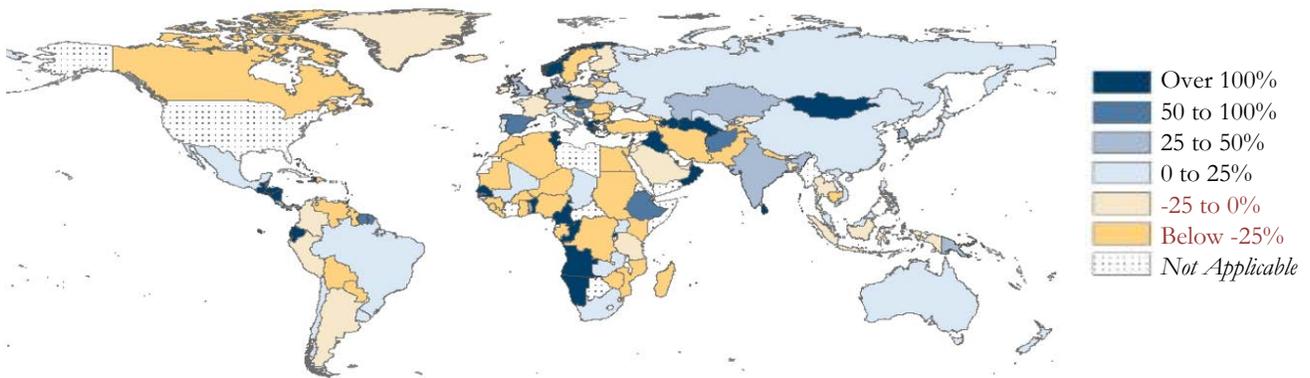


2018Q2		
	United States	Kansas
Exports (Millions)	\$423,414.9	\$2,896.2
<i>Change from</i>		
Last Quarter	2.7%	-0.2%
Last Year (year-to-date)	9.5%	1.4%
Share of U.S. Activity		0.7%

2017		
	United States	Kansas
Exports as a Percent of GDP	7.9%	7.1%

Kansas Exports Year-to-Date through 2018Q2

Percent Change Year-over-Year



Top Markets		Share
1	Mexico	18.9%
2	Canada	16.8
3	China*	9.9
4	Japan	8.9
5	United Kingdom	4.6
6	Germany	4.1
7	Singapore	3.1
8	South Korea	3.0
9	France	2.4
10	Brazil	1.8

Top Exports		Share
1	Transportation Equip.	24.5%
2	Food	21.5
3	Agriculture & Livestock	13.5
4	Machinery (Except Electrical)	8.9
5	Chemicals & Rare Earth Metals	7.2
6	Computers & Electronics	6.3
7	Special Class Provisions	4.4
8	Plastics & Rubber Products	2.9
9	Electronic Equip. & Appliances	2.7
10	Fabricated Metal Products	2.4

*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 2 and 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: The active rig count is the number of rigs actively exploring for or developing oil or natural gas. Rig counts provide an indicator of new drilling activity and potential for expanded crude oil or natural gas production. Coal production is shown as production during a given month.

Page 11: 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

Sign up to receive *The Kansas Economic Databook* and other publications each month via email using the link below:

<http://www.kansascityfed.org/ealert/>

Additional Resources Available

- Agricultural Surveys
- Manufacturing Survey
- Energy Survey
- Regional Economic Analysis
- Speeches
- Banker Resources
- Economic Indicators
- Economic Research
- Educational Tools

Visit: www.KansasCityFed.org

