# Tenth District Economic Databook

A summary of regional and national economic indicators for the Tenth District states



NOVEMBER 19, 2018

FEDERAL RESERVE BANK of KANSAS CITY

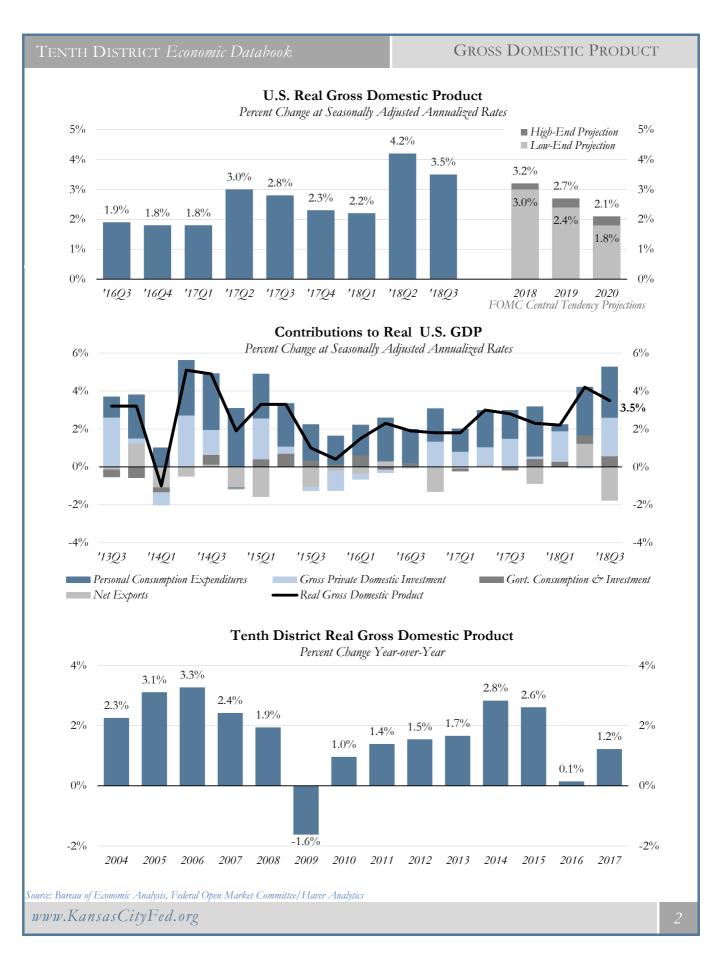
#### SUMMARY OF CURRENT TENTH DISTRICT ECONOMIC CONDITIONS

The unemployment rate was 3.3 percent across the Tenth District states in October, and total payroll employment grew 1.9 percent compared to the previous year. Employment growth was broad-based across industries, with the strongest percentage gains in the mining and logging and construction sectors. Tenth District nominal personal income grew 4.1 percent in the second quarter of 2018 compared to the previous year. In the energy sector, rig counts were well above year-ago levels. The Federal Reserve Bank of Kansas City's Manufacturing Survey indicated an increase in manufacturing activity in October 2018, with a composite index of 53.8. Nonirrigated farmland values, as measured by the Federal Reserve Bank of Kansas City's Survey of Agricultural Credit Conditions, decreased 1.6 percent in the third quarter of 2018 compared to the same period in 2017.

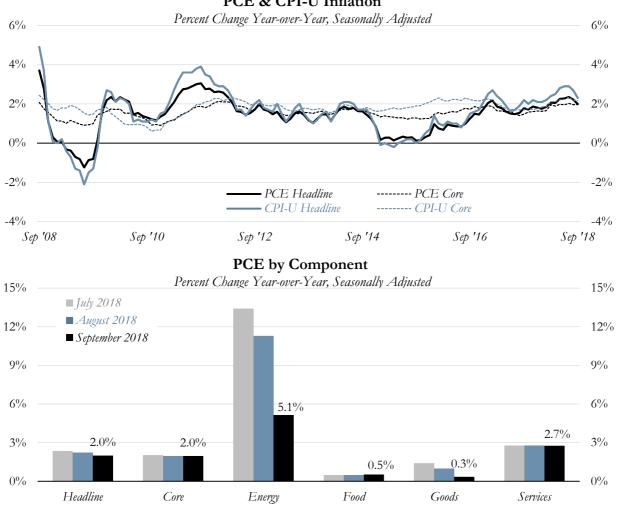
This databook provides current economic indicators to help monitor trends and allow comparison of past information. These indicators include: gross domestic product (GDP); inflation; employment; employment by industry; state unemployment; personal income; home prices; housing indicators; manufacturing activity; oil, gas and coal production; agriculture; and exports. These indicators can be found on the following pages.



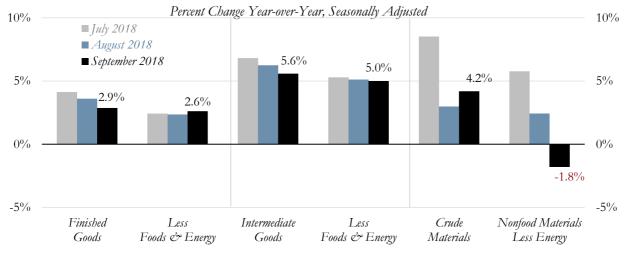
The Federal Reserve Bank of Kansas City's headquarters is located at 1 Memorial Drive in the heart of Kansas City, Missouri. The Federal Reserve Bank of Kansas City serves the Tenth Federal Reserve District, which includes Colorado, Kansas, western Missouri, Nebraska, northern New Mexico, Oklahoma and Wyoming. There are three branches across the Tenth Federal Reserve District located in Denver, Oklahoma City, and Omaha.







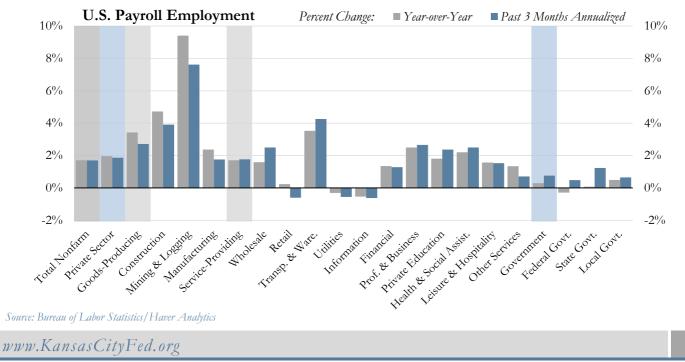
#### **Producer Prices**



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

	Number of Jobs	Jobs (	Gained Year-ove	er-Year	
	(Thousands)		(Thousands)		Share of Employment
Total Nonfarm		149,750		2,516	100.0%
Private Sector		127,353		2,450	85.0%
Goods-Producing	20,859		691		13.9%
Construction	7,318		330		4.9%
Mining & Logging	756		65		0.5%
Manufacturing	12,785		296		8.5%
Service-Providing		106,476		1,786	71.1%
Wholesale Trade	6,017		94		4.0%
Retail Trade	15,896		37		10.6%
Transportation & Warehousing	5,399		184		3.6%
Utilities	553	-2			0.4%
Information	2,769	-15			1.8%
Financial Activities	8,609		115		5.8%
Professional & Business Services	21,146		516		14.1%
Educational Services	3,753		67		2.5%
Healthcare & Social Assistance	20,058		432		13.4%
Leisure & Hospitality	16,410		254		10.9%
Other Services	5,884		78		3.9%
Government	22,397		66		15.0%
Federal Government	2,799	-8			1.9%
State Government	5,139		4		3.4%
Local Government	14,459		70		9.7%

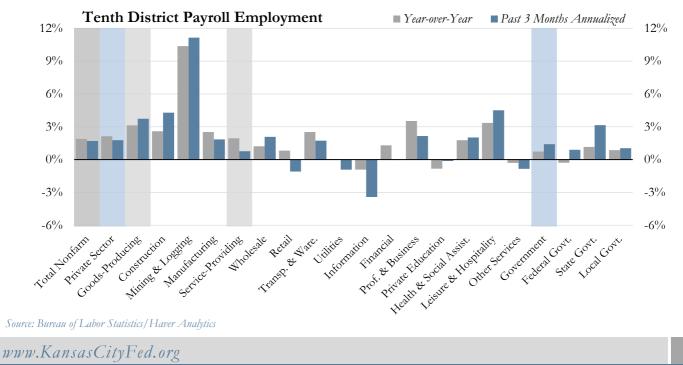
#### October 2018 U.S. Payroll Employment

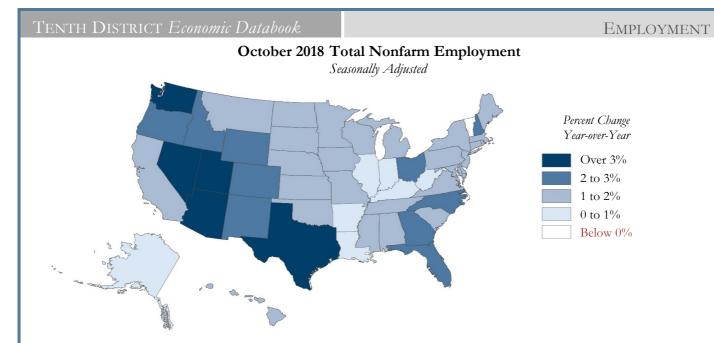


	Number of Jobs (Thousands)	Jobs Gained Year-over-Year (Thousands)	Share of Employment
Total Nonfarm	10,965	204	100.0%
Private Sector	9,044	190	82.4%
Goods-Producing	1,556	47	14.2%
Construction	555	14	5.1%
Mining & Logging	142	13	1.3%
Manufacturing	856	21	7.8%
Service-Providing	7,485	143	68.2%
Wholesale Trade	423	5	3.9%
Retail Trade	1,145	9	10.4%
Transportation & Warehousing	388	10	3.5%
Utilities	39	0	0.4%
Information	194	-2	1.8%
Financial Activities	627	8	5.7%
Professional & Business Services	1,460	50	13.3%
Private Educational Services	152	-1	1.4%
Healthcare & Social Assistance	1,428	25	13.0%
Leisure & Hospitality	1,211	39	11.0%
Other Services	423	-1	3.9%
Government	1,921	14	17.6%
Federal Government	236	-1	2.2%
State Government	478	6	4.4%
Local Government	1,208	10	11.0%

#### October 2018 Tenth District Payroll Employment

Seasonally Adjusted



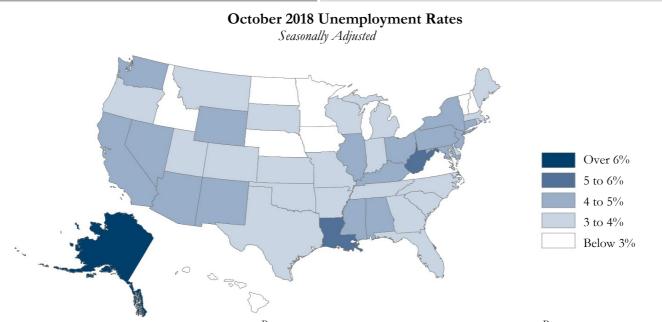


		Percent Change Year-over-Year		
	United States	1.7%	25	
	Tenth District	1.9	26	
1	Nevada	3.4	27	
2	Utah	3.3	28	
3	Washington	3.3	29	
4	Texas	3.1	30	
5	Arizona	3.1	31	
6	Florida	2.7	32	
7	Colorado	2.7	33	
8	New Mexico	2.7	34	
9	Oregon	2.5	35	
10	North Carolina	2.3	36	
11	New Hampshire	2.3	37	
12	Wyoming	2.1	38	
13	Idaho	2.1	39	
14	Georgia	2.1	40	1
15	Ohio	2.1	41	
16	Tennessee	2.0	42	
17	California	1.8	43	
18	Virginia	1.8	44	
19	South Carolina	1.8	45	
20	Massachusetts	1.8	46	
21	South Dakota	1.7	47	
22	Hawaii	1.7	48	
23	Alabama	1.7	49	
24	New Jersey	1.7	50	
Eabor Statistic	cs/Haver Analytics			

		Percent Change
		Year-over-Year
25	Nebraska	1.6%
26	Missouri	1.6
27	Pennsylvania	1.5
28	Montana	1.5
29	Maryland	1.4
30	Michigan	1.4
31	Kansas	1.4
32	Iowa	1.4
33	Oklahoma	1.4
34	Connecticut	1.3
35	New York	1.3
36	Maine	1.3
37	Rhode Island	1.3
38	Minnesota	1.2
39	Mississippi	1.2
40	North Dakota	1.2
41	Wisconsin	1.1
42	Delaware	1.1
43	Louisiana	1.0
44	Illinois	1.0
45	West Virginia	0.9
46	Indiana	0.8
47	Arkansas	0.7
48	Kentucky	0.5
49	Alaska	0.1
50	Vermont	-0.9

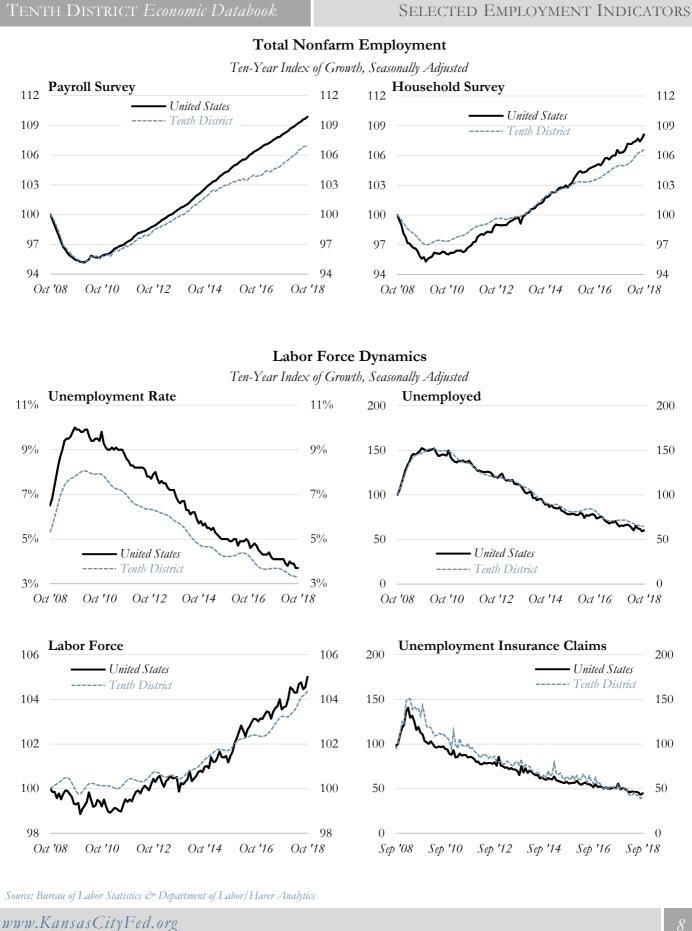
Source: Bureau

#### UNEMPLOYMENT



		Percent			Percent
		Unemployed	<u> </u>		Unemployea
	<b>United States</b>	3.7%	24	Montana	3.7
	Tenth District	3.3	24	Tennessee	3.7
1	Alaska	6.4	27	North Carolina	3.6
2	West Virginia	5.2	27	Georgia	3.6
3	Louisiana	5.0	29	Massachusetts	3.5
4	Mississippi	4.7	29	Arkansas	3.5
4	Arizona	4.7	29	Indiana	3.5
6	New Mexico	4.6	32	Oklahoma	3.4
6	Ohio	4.6	32	Florida	3.4
8	Kentucky	4.5	32	Maine	3.4
9	Nevada	4.4	35	South Carolina	3.3
10	Washington	4.3	35	Kansas	3.3
11	Connecticut	4.2	37	Utah	3.2
11	Illinois	4.2	37	Colorado	3.2
13	Maryland	4.1	39	Missouri	3.1
13	New Jersey	4.1	40	South Dakota	3.0
13	California	4.1	40	Wisconsin	3.0
13	Pennsylvania	4.1	42	Virginia	2.9
13	Alabama	4.1	43	Vermont	2.8
13	Wyoming	4.1	43	Minnesota	2.8
19	New York	4.0	43	Nebraska	2.8
20	Michigan	3.9	43	North Dakota	2.8
20	Delaware	3.9	47	Idaho	2.7
22	Rhode Island	3.8	48	New Hampshire	2.6
22	Oregon	3.8	49	Iowa	2.4
24	Texas	3.7	50	Hawaii	2.3
	/II man Analytica				

Source: Bureau of Labor Statistics/Haver Analytics



TENTH DISTRICT Economic Databook
PERSONAL INCOME

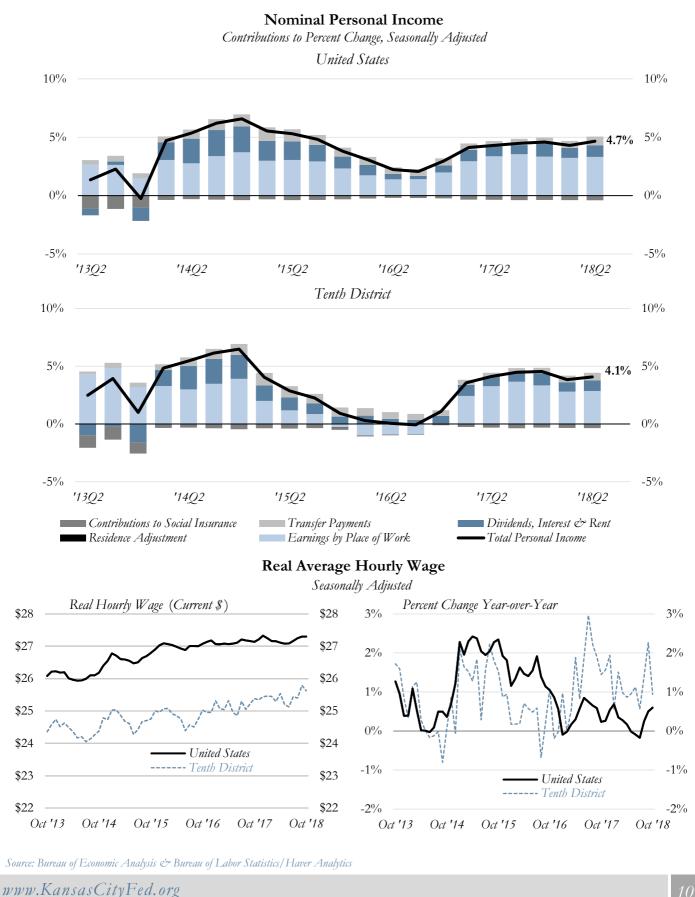
2018Q2 Real Personal Income
Seasonally Adjusted

Image: Comparison of the seasonal process of

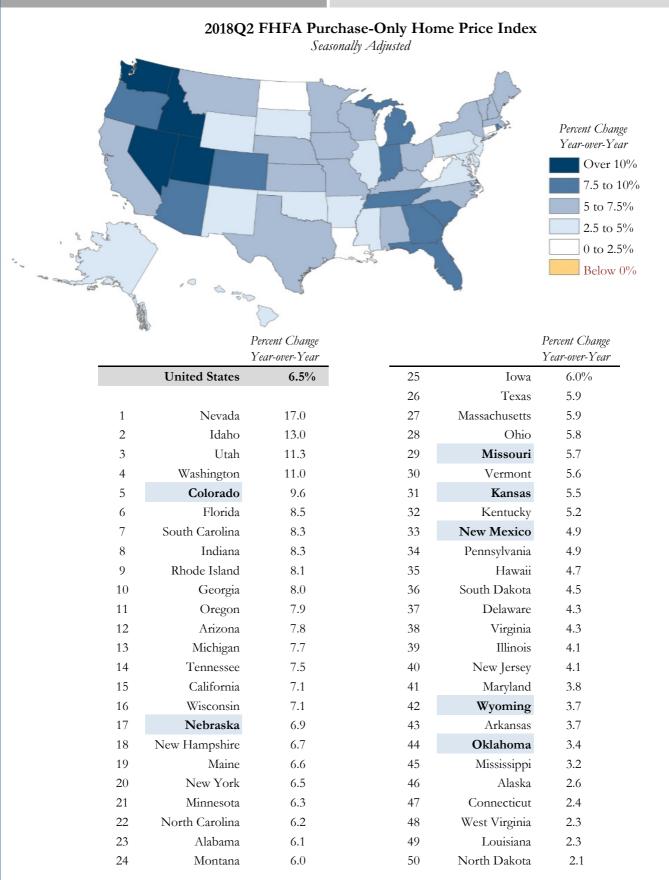
		Percent Change Year-over-Year	Per Capita Personal Income			Percent Change Year-over-Year	Per Capita Personal Income
	United States	2.4%	\$53,342	25	Wyoming	2.1%	\$60,044
	Tenth District	1.9	45,809	26	Indiana	2.0	46,610
1	Utah	4.4	45,124	27	Tennessee	1.9	46,773
2	Washington	3.9	60,017	28	Mississippi	1.9	37,903
3	Nevada	3.5	47,596	29	Louisiana	1.8	45,245
4	Colorado	3.4	56,563	30	West Virginia	1.8	39,920
5	Texas	3.4	49,081	31	Michigan	1.8	47,696
6	Arizona	3.3	43,594	32	Rhode Island	1.8	54,438
7	Florida	3.3	49,236	33	Pennsylvania	1.7	54,952
8	New York	3.2	67,264	34	South Carolina	1.7	42,583
9	Idaho	3.0	42,935	35	Ohio	1.7	48,091
10	Montana	2.8	47,040	36	Kentucky	1.6	41,786
11	Illinois	2.6	56,600	37	New Jersey	1.6	66,490
12	New Hampshire	2.6	61,706	38	Maryland	1.4	62,535
13	Delaware	2.5	51,001	39	Missouri	1.4	46,316
14	Oregon	2.5	49,580	40	New Mexico	1.4	40,949
15	California	2.4	61,856	41	Minnesota	1.3	55,604
16	Maine	2.4	48,049	42	Connecticut	1.3	74,030
17	North Carolina	2.3	45,522	43	Alaska	1.1	58,854
18	Georgia	2.3	45,378	44	Hawaii	1.0	54,217
19	Massachusetts	2.3	69,935	45	Vermont	1.0	53,653
20	Wisconsin	2.2	50,651	46	North Dakota	0.9	54,206
21	Virginia	2.2	56,830	47	Kansas	0.7	49,738
22	Arkansas	2.1	42,490	48	South Dakota	0.5	49,627
23	Alabama	2.1	42,248	49	Iowa	0.3	48,050
24	Oklahoma	2.1	46,053	50	Nebraska	-0.2	51,486

Source: Bureau of Economic Analysis/Haver Analytics

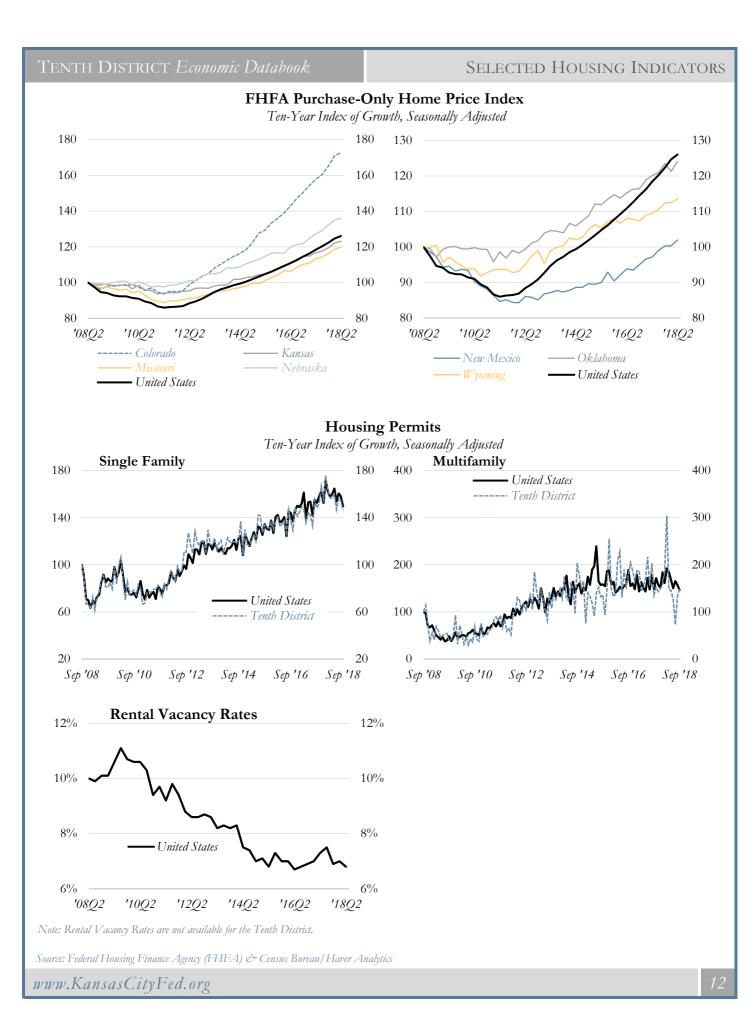
SELECTED INCOME INDICATORS

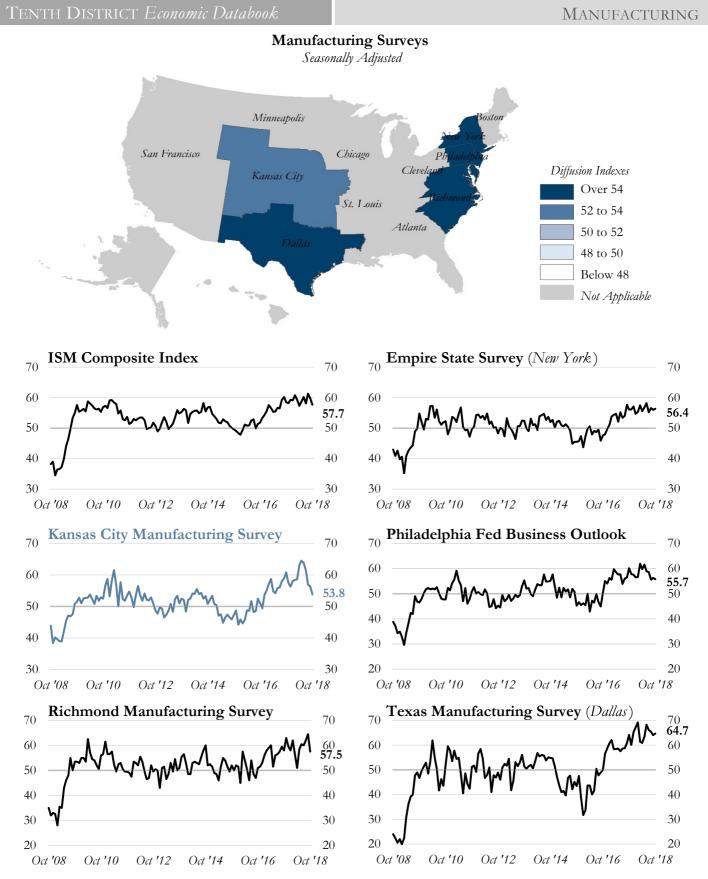


#### HOME PRICES

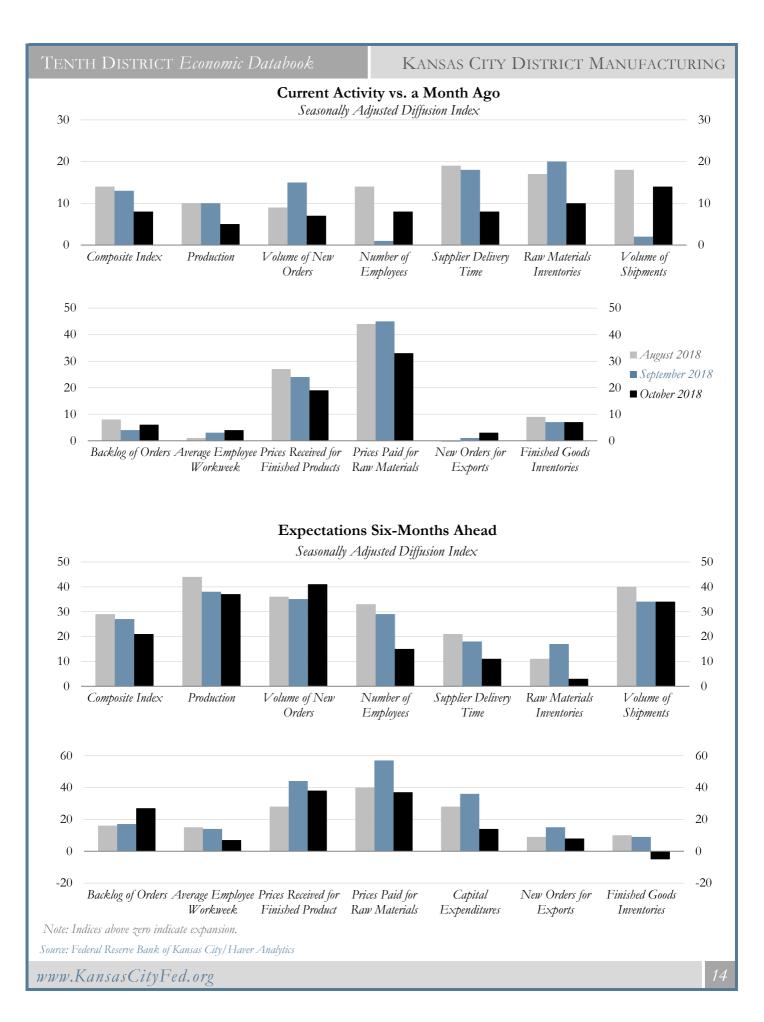


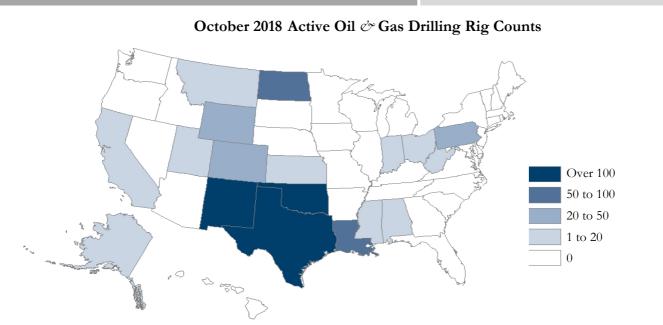
Source: Federal Housing Finance Agency (FHFA)/Haver Analytics





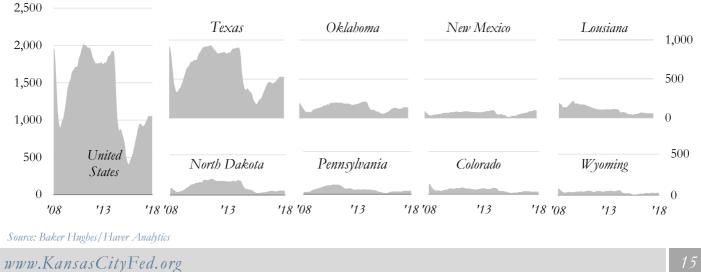
Note: Indices are defined to be between 0 and 100; above 50 indicates growth and below 50 indicates contraction. Source: Institute for Supply Management (ISM) & Federal Reserve District Banks/Haver Analytics

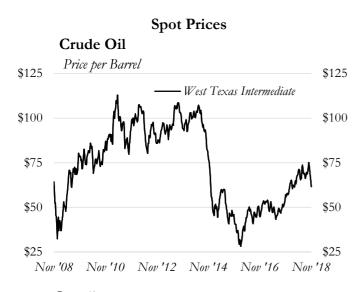




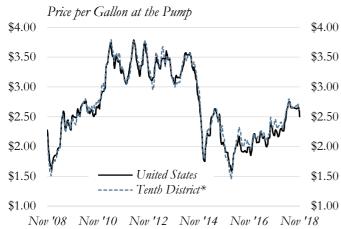
		Average Rig Counts During the Month	Percent Change Year-over-Year	Current Share of Activity
	United States	1,063	16.7%	
	Tenth District	307	22.8	28.9%
Top Producing States	Texas	533	20.6	50.1
	Oklahoma	142	13.6	13.4
	New Mexico	101	48.5	9.5
	Lousiana	63	-3.1	5.9
	North Dakota	53	6.0	5.0
	Pennsylvania	45	40.6	4.2
	Colorado	33	-2.9	3.1
	Wyoming	30	36.4	2.8
	Ohio	17	-41.4	1.6
	California	14	-6.7	1.3

## **Ten-Year History of Most Active States** Average Active Monthly Drilling Rig Counts

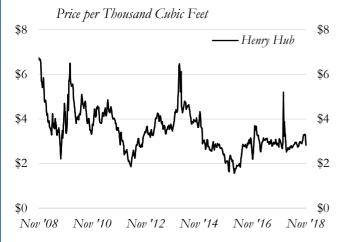




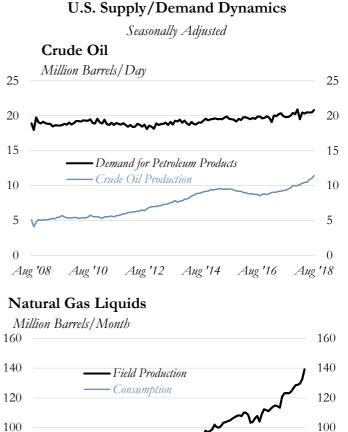
#### Gasoline

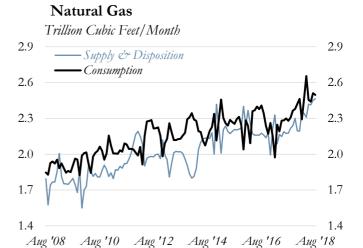


#### Natural Gas



#### Selected Energy Indicators





Aug '14

Aug '16

\*Average price per gallon for major Tenth District metro areas.

Source: Wall Street Journal, Oil & Gas Journal & Department of Energy, Energy Information Administration/Haver Analytics

80

60

40

Aug '08

Aug '10

Aug '12

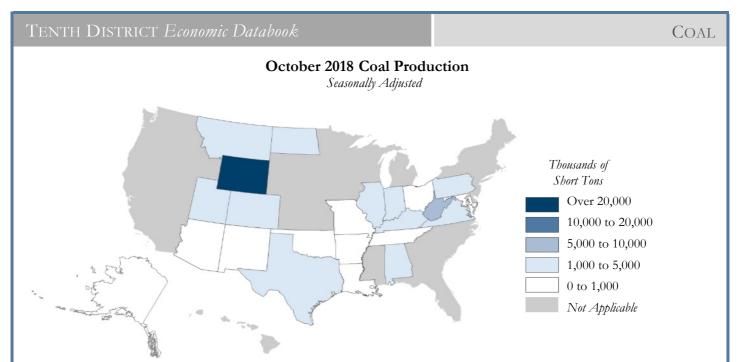
www.KansasCityFed.org

80

60

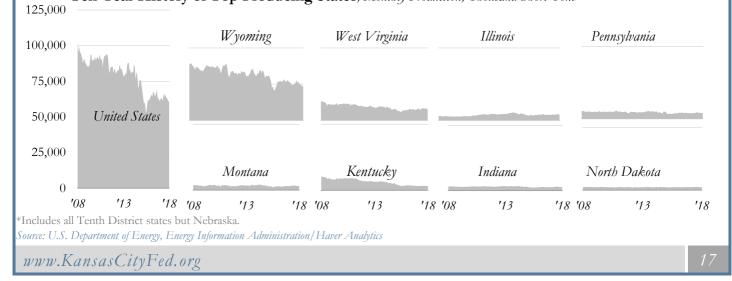
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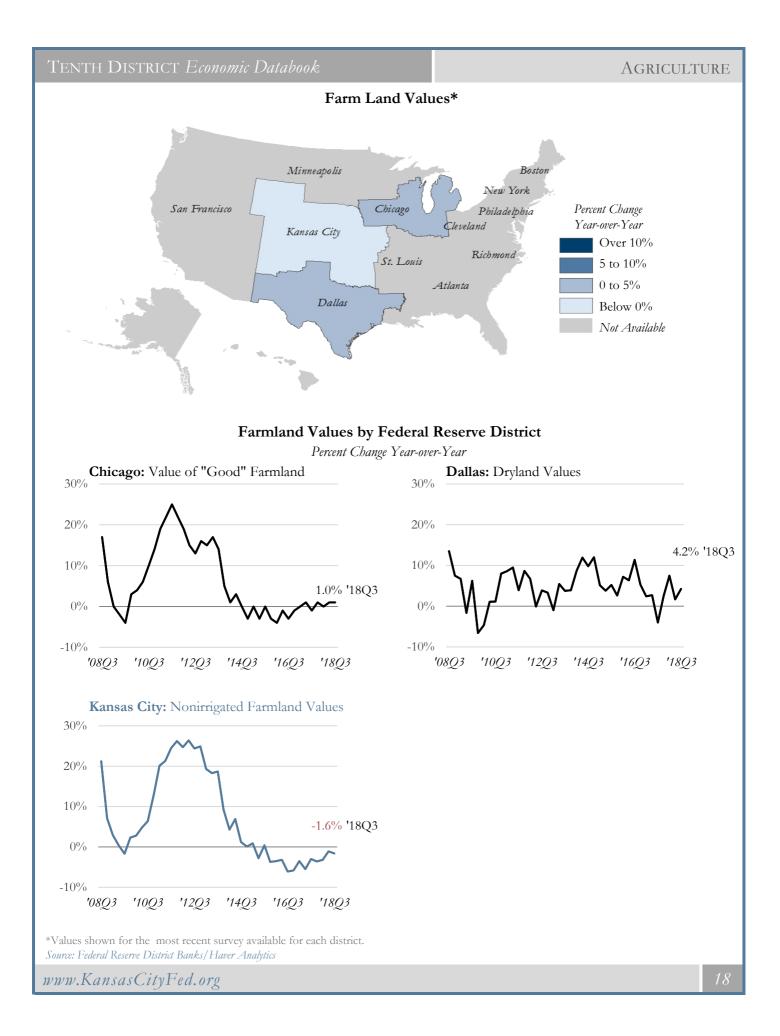
Aug '18



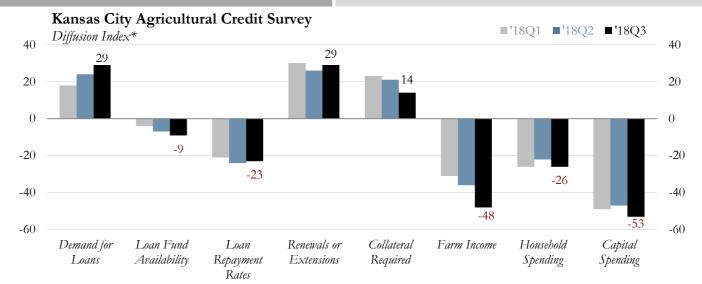
		Monthly Production (Thousand Short Tons)	Percent Change Year-over-Year	Current Share of Production
	United States	60,704.5	-1.7%	
	Tenth District*	25,743.4	-3.2	42.4%
Top Producing States	Wyoming	23,948.9	-1.8	39.5
	West Virginia	8,079.9	1.9	13.3
	Illinois	4,035.0	3.2	6.6
	Pennsylvania	3,889.2	-1.4	6.4
	Montana	3,207.7	9.4	5.3
	Kentucky	3,126.7	-4.8	5.2
	Indiana	2,811.2	9.6	4.6
	North Dakota	2,466.8	3.0	4.1
	Texas	2,296.2	-23.4	3.8
	Alabama	1,265.6	15.0	2.1

#### Ten-Year History of Top Producing States, Monthly Production, Thousand Short Tons

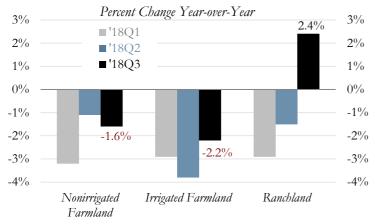




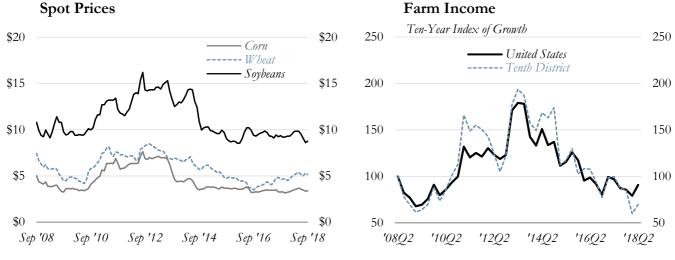
#### SELECTED AGRICULTURAL INDICATORS



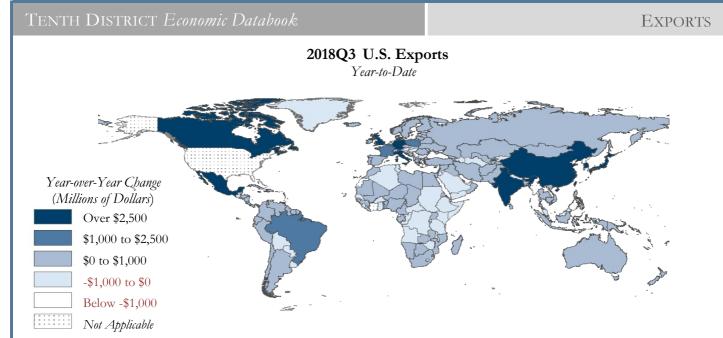
**Tenth District Farmland Values** 







\*Calculated as the percentage of total respondents reporting increases less those reporting declines. Source: Wall Street Journal, Bureau of Economic Analysis & Federal Reserve Bank of Kansas City/Haver Analytics

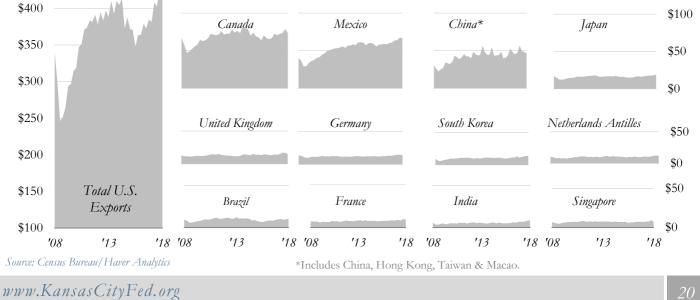


		Exports Year-to-Date (Billions of Dollars)	Percent Change Year-to-Date	Share of Exports Year-to-Date
	United States	\$1,242.2	9.1%	
Top Export Markets	Canada	225.4	7.3	18.1%
	Mexico	197.9	10.2	15.9%
	China*	144.2	2.8	11.6%
	Japan	54.8	9.9	4.4%
	United Kingdom	49.3	18.4	4.0%
	Germany	43.5	10.3	3.5%
	South Korea	41.0	13.8	3.3%
	Netherlands Antilles	36.2	15.0	2.9%
	Brazil	29.3	9.0	2.4%
	France	26.9	8.1	2.2%

#### Ten-Year History of U.S. Top Export Countries

Billions in Quarterly Exports

\$450



*Page 2*: Gross domestic product (GDP) is the most commonly used measure of aggregate U.S. economic activity. Real GDP is indexed for inflation to 2009 dollars using the personal consumption expenditure price index (PCEPI). Advance, second, and third GDP estimates are released during the first, second, and third month of the following quarter. Each release reflects more complete information. Federal Open Market Committee (FOMC) projections for GDP are released quarterly. Contributions to GDP show how each component of GDP contributes to GDP growth. Tenth District GDP is the year-over-year percent change for the sum of the Gross State Products from CO, KS, MO, NE, NM, OK and WY.

*Page 3*: Inflation is calculated as the year-over-year change in price indices. Headline inflation includes all price components, while core inflation excludes the more volatile components of food and energy. Producer prices reflect price changes in production components, while PCEPI and CPI-U (consumer price index for all urban consumers) estimates show changes in commodities sold to consumers.

*Pages 4, 5 and 6*: 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.

*Page 7*: 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, commonly called the "Household" survey.

*Page 8*: "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 9 and 10: Personal income provides a measure of all income received by residents of a given geographic area. Data shown on page 9 are in real terms (adjusted for inflation) and data on page 10 are shown 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 recipients 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 CPI-U and are indexed to the most current month of data.

*Pages 11 and 12*: Home price indices estimate regional growth in home values based on repeat sales data for detached single family residential properties.

*Page 12*: Monthly single and multifamily housing permits data are not revised and therefore may not sum to published year-end totals.

Page 13: The ISM composite index, also commonly called the Purchasing Managers Index (PMI), represents a weighted average of diffusion indices for new orders, production, supplier deliveries, inventories, and employment. Federal Reserve district surveys differ slightly in methodologies for composite indices.

*Page 14*: Kansas City Manufacturing Survey diffusion indices are calculated as the percentage of total respondents reporting increases in activity less those reporting declines.

*Page 15:* 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.

*Page 16*: A spot price is the current market delivery price of a given commodity.

Page 17: Coal production is shown as production during a given month.

Pages 18 and 19: Farmland values surveyed differ across Federal Reserve districts.

*Page 20*: 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.

### Additional Resources Available

- Agricultural Surveys
- Manufacturing Surveys
- Regional Economic Analysis
- Banker Resources
- Economic Indicators
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