

# THE *Tenth District* ECONOMIC DATABOOK

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



FEBRUARY 26, 2018

FEDERAL RESERVE BANK of KANSAS CITY

## SUMMARY OF CURRENT TENTH DISTRICT ECONOMIC CONDITIONS

The unemployment rate was 3.6 percent across the Tenth District states in December, and total payroll employment grew 1.2 percent compared to the previous year. Employment growth was broad-based across industries, with the strongest percentage gains in the mining and logging and professional and business services sectors. Tenth District nominal personal income grew 1.9 percent in the third quarter of 2017 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 February 2018, with a composite index of 58.4. Nonirrigated farmland values, as measured by the Federal Reserve Bank of Kansas City's Survey of Agricultural Credit Conditions, decreased 3.6 percent in the fourth quarter of 2017 compared to the same period in 2016.

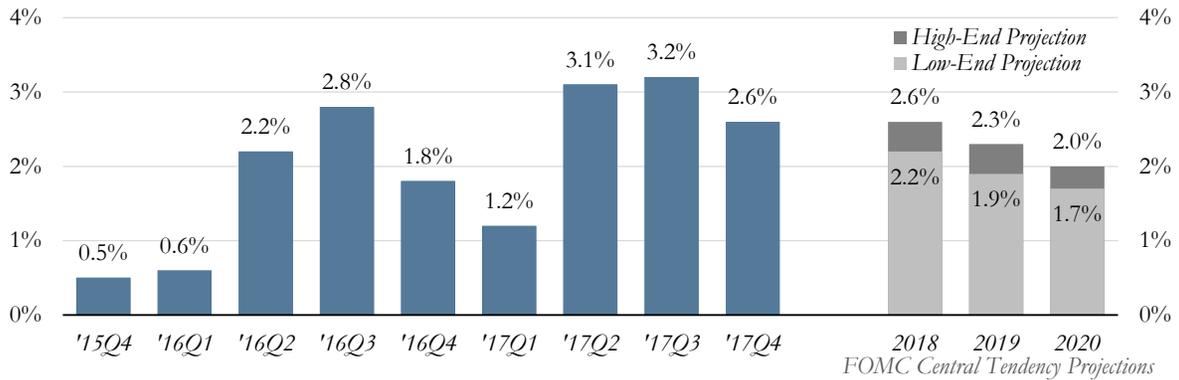
This databook provides current economic indicators to help monitor trends and allow comparison of past information. These indicators include: gross domestic product (GDP); inflation; employment; employment by industry; state unemployment; personal income; home prices; housing indicators; manufacturing 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.

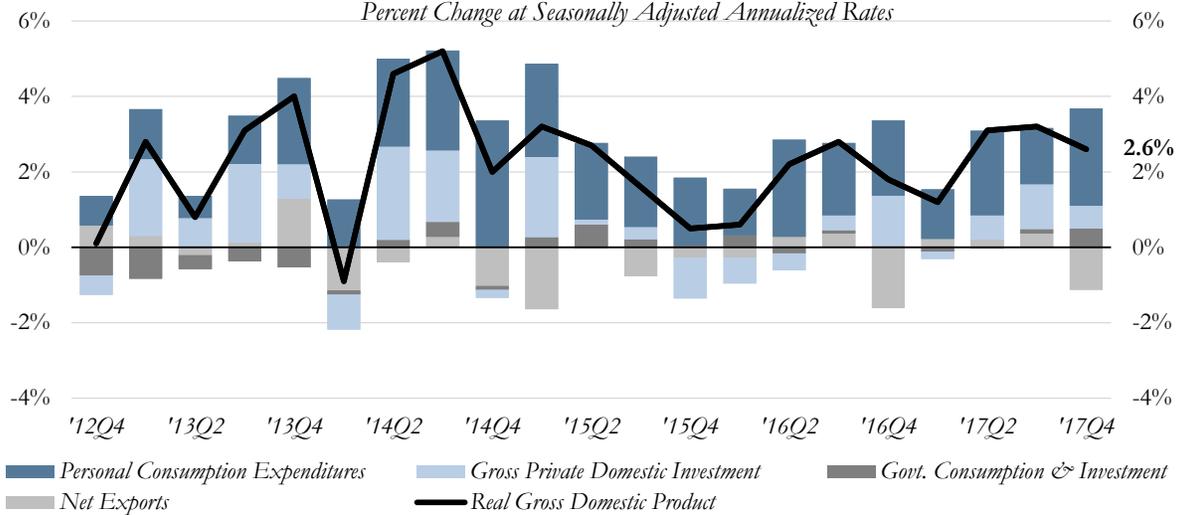
**U.S. Real Gross Domestic Product**

*Percent Change at Seasonally Adjusted Annualized Rates*



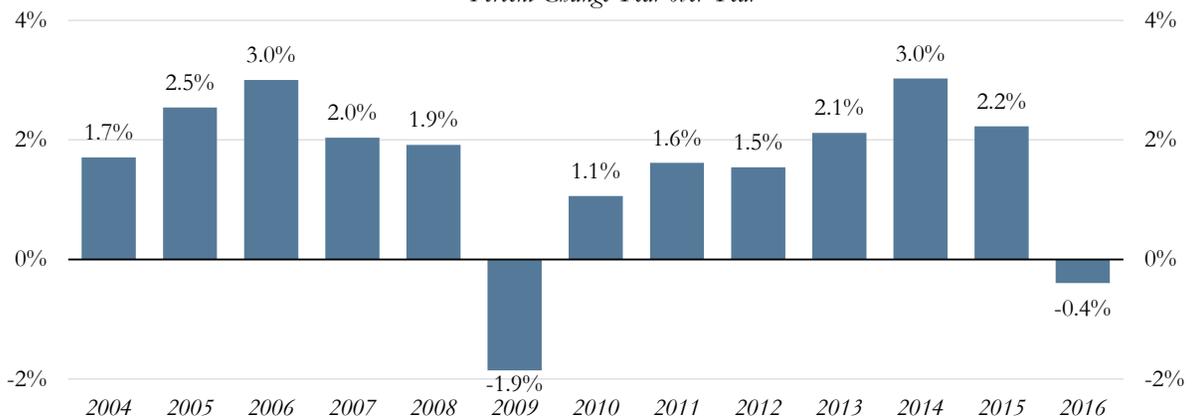
**Contributions to Real U.S. GDP**

*Percent Change at Seasonally Adjusted Annualized Rates*

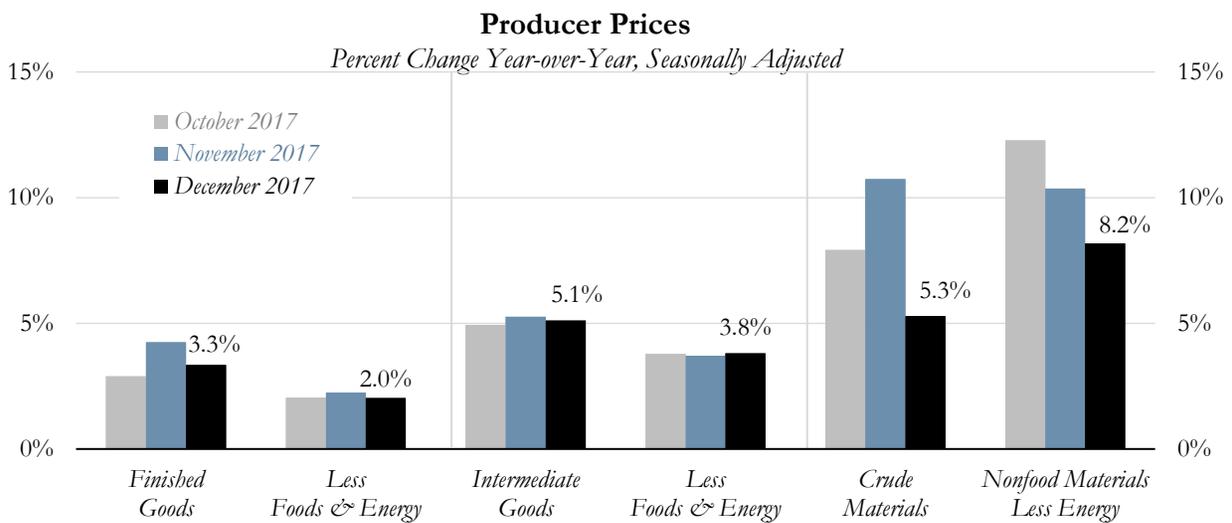
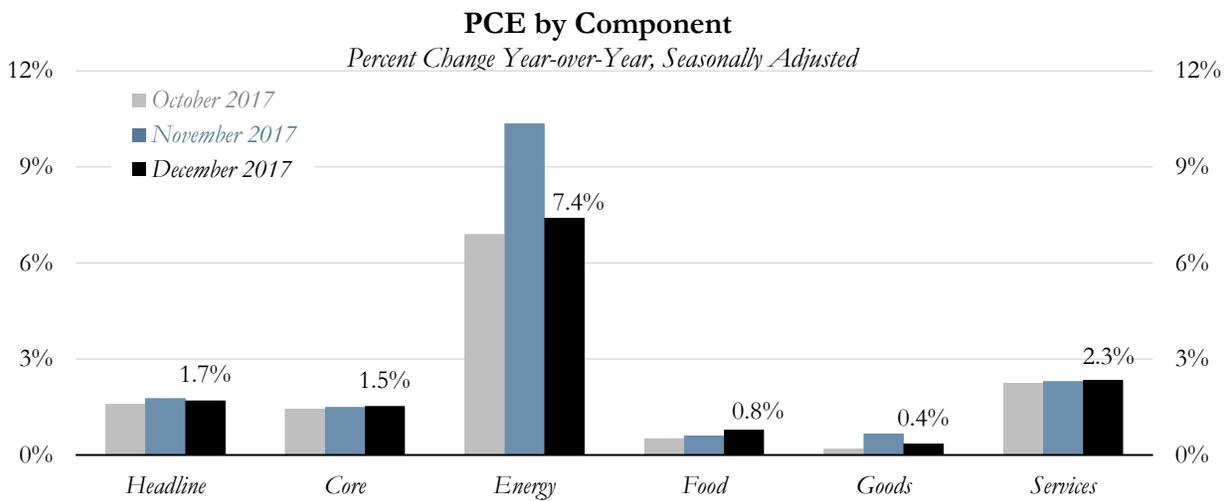
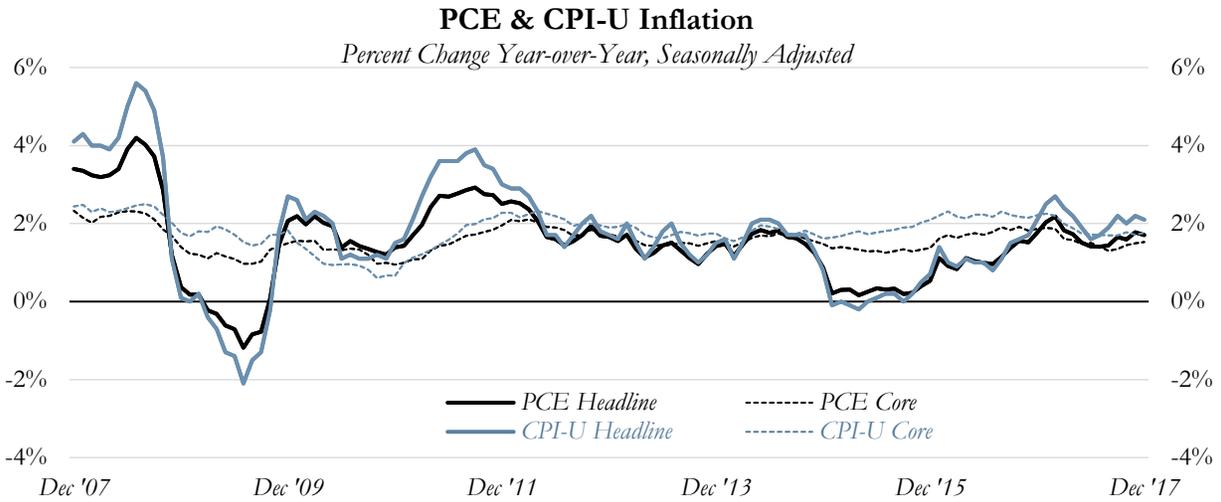


**Tenth District Real Gross Domestic Product**

*Percent Change Year-over-Year*



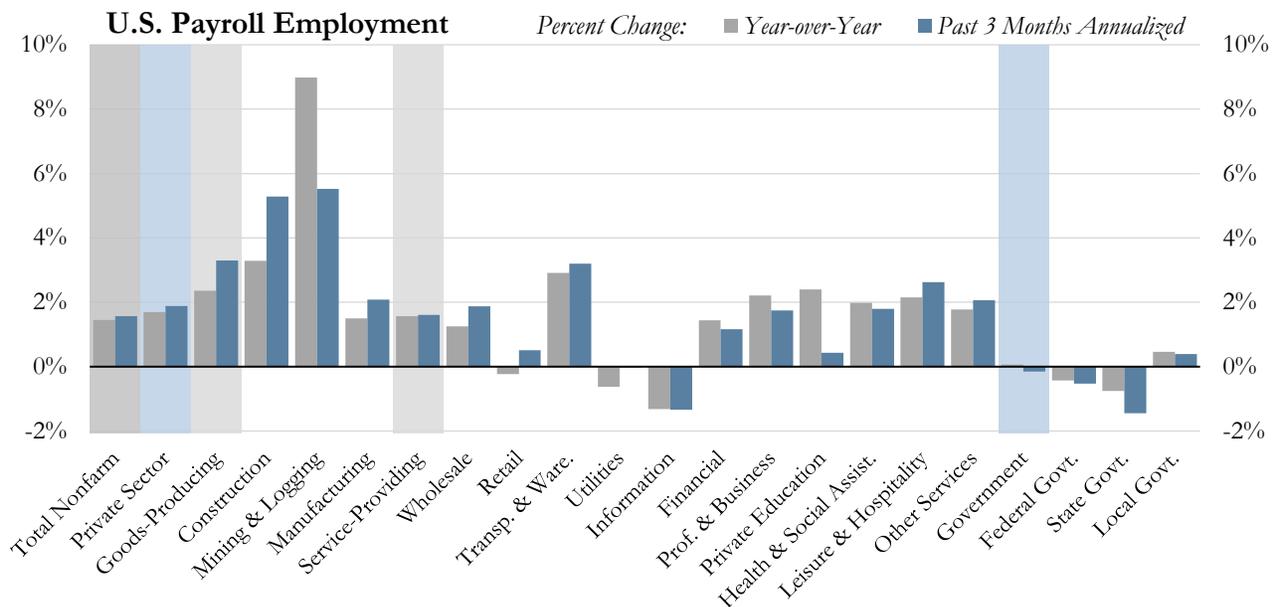
Source: Bureau of Economic Analysis, Federal Open Market Committee/Haver Analytics



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

**January 2018 U.S. Payroll Employment**

	<i>Number of Jobs (Thousands)</i>	<i>Jobs Gained Year-over-Year (Thousands)</i>	<i>Share of Employment</i>
<b>Total Nonfarm</b>	147,810	2,114	100.0%
Private Sector	125,482	2,099	84.9%
<i>Goods-Producing</i>	20,358	470	13.8%
Construction	7,099	226	4.8%
Mining & Logging	704	58	0.5%
Manufacturing	12,555	186	8.5%
<i>Service-Providing</i>	105,055	1,625	71.1%
Wholesale Trade	5,953	74	4.0%
Retail Trade	15,877	-36	10.7%
Transportation & Warehousing	5,250	149	3.5%
Utilities	553	-4	0.4%
Information	2,773	-37	1.9%
Financial Activities	8,518	121	5.8%
Professional & Business Services	20,694	448	14.0%
Educational Services	3,712	87	2.5%
Healthcare & Social Assistance	19,715	383	13.3%
Leisure & Hospitality	16,248	342	11.0%
Other Services	5,831	102	3.9%
Government	22,328	15	15.1%
Federal Government	2,802	-12	1.9%
State Government	5,114	-39	3.5%
Local Government	14,412	66	9.8%

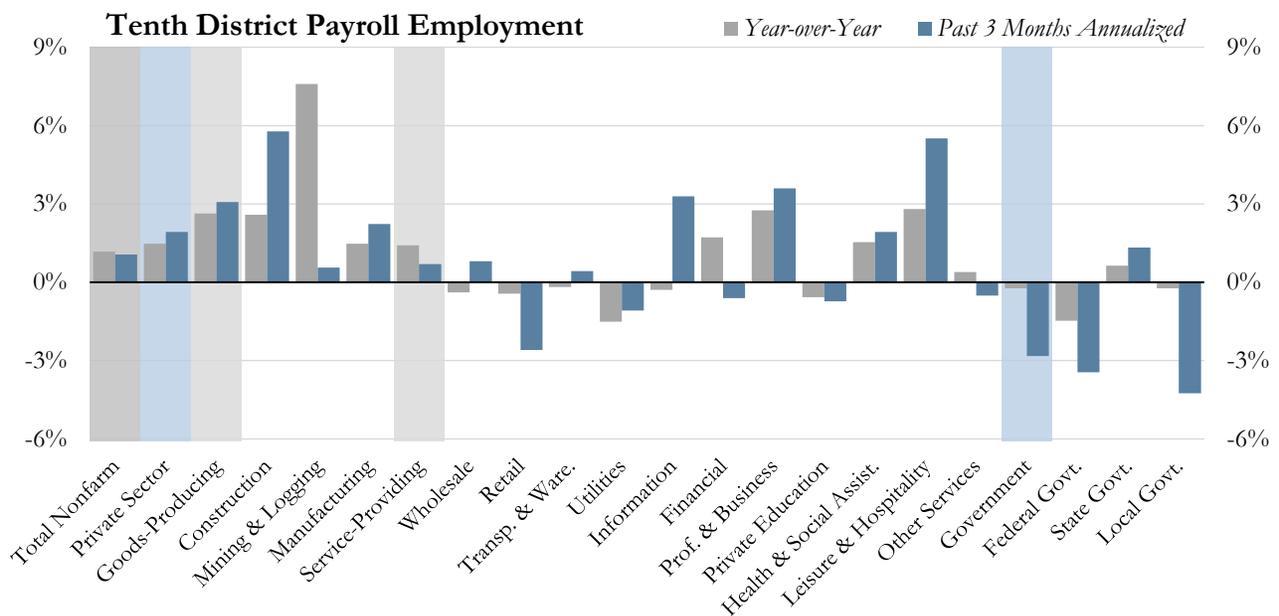


Source: Bureau of Labor Statistics/Haver Analytics

**December 2017 Tenth District Payroll Employment**

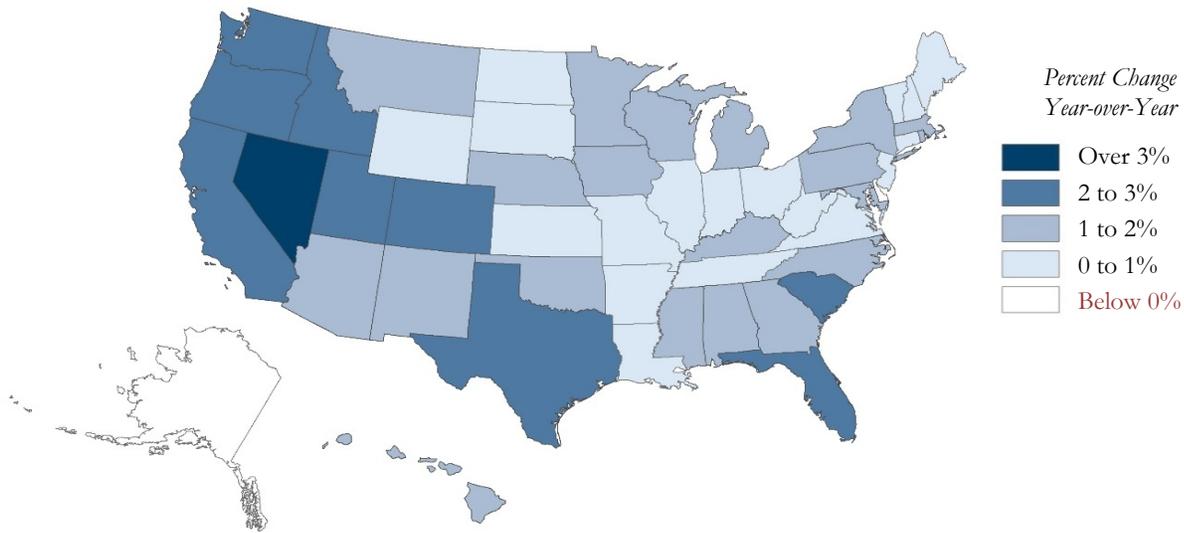
*Seasonally Adjusted*

	<i>Number of Jobs (Thousands)</i>	<i>Jobs Gained Year-over-Year (Thousands)</i>	<i>Share of Employment</i>
<b>Total Nonfarm</b>	10,811	125	100.0%
Private Sector	8,907	130	82.4%
<i>Goods-Producing</i>	1,501	39	13.9%
Construction	547	14	5.0%
Mining & Logging	119	8	1.1%
Manufacturing	836	12	7.8%
<i>Service-Providing</i>	7,384	103	68.4%
Wholesale Trade	416	-2	3.8%
Retail Trade	1,152	-5	10.7%
Transportation & Warehousing	367	-1	3.4%
Utilities	40	-1	0.4%
Information	201	-1	1.9%
Financial Activities	628	11	5.8%
Professional & Business Services	1,432	38	13.3%
Private Educational Services	157	-1	1.4%
Healthcare & Social Assistance	1,413	21	13.1%
Leisure & Hospitality	1,184	32	10.9%
Other Services	415	2	3.9%
Government	1,904	-4	17.6%
Federal Government	234	-4	2.2%
State Government	475	3	4.4%
Local Government	1,195	-3	11.1%



Source: Bureau of Labor Statistics/Haver Analytics

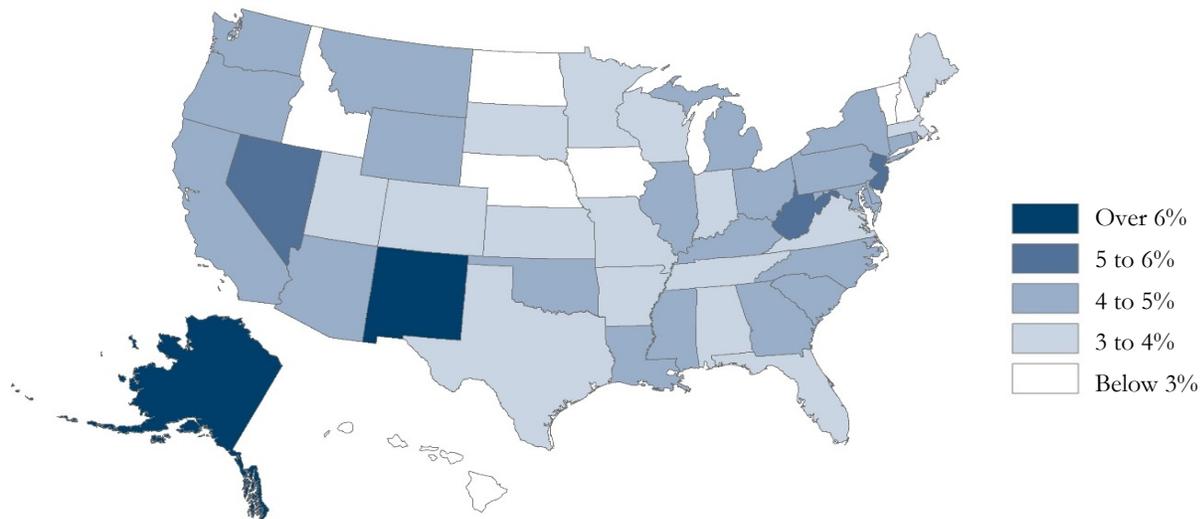
**December 2017 Total Nonfarm Employment**  
*Seasonally Adjusted*



<i>Percent Change Year-over-Year</i>			<i>Percent Change Year-over-Year</i>		
	<b>United States</b>	<b>1.4%</b>	25	Rhode Island	1.2%
	<b>Tenth District</b>	<b>1.2</b>	26	Maryland	1.1
1	Nevada	3.3	27	Hawaii	1.1
2	Oregon	2.7	28	Kentucky	1.1
3	Utah	2.6	29	<b>Nebraska</b>	1.1
4	Texas	2.5	30	New York	1.0
5	Florida	2.5	31	Tennessee	1.0
6	South Carolina	2.2	32	South Dakota	0.9
7	Washington	2.1	33	Arkansas	0.9
8	Idaho	2.1	34	Indiana	0.9
9	California	2.1	35	Maine	0.8
10	<b>Colorado</b>	2.0	36	Vermont	0.8
11	Georgia	1.9	37	<b>Missouri</b>	0.8
12	Iowa	1.8	38	New Hampshire	0.8
13	Montana	1.8	39	Virginia	0.8
14	Massachusetts	1.8	40	Ohio	0.7
15	Alabama	1.7	41	New Jersey	0.6
16	North Carolina	1.7	42	Illinois	0.5
17	Mississippi	1.6	43	Connecticut	0.5
18	Wisconsin	1.4	44	<b>Kansas</b>	0.4
19	Pennsylvania	1.3	45	North Dakota	0.4
20	Michigan	1.3	46	<b>Wyoming</b>	0.4
21	Arizona	1.3	47	Louisiana	0.3
22	Minnesota	1.3	48	West Virginia	0.2
23	<b>New Mexico</b>	1.2	49	Delaware	-0.1
24	<b>Oklahoma</b>	1.2	50	Alaska	-0.7

Source: Bureau of Labor Statistics/Haver Analytics

**December 2017 Unemployment Rates**  
*Seasonally Adjusted*



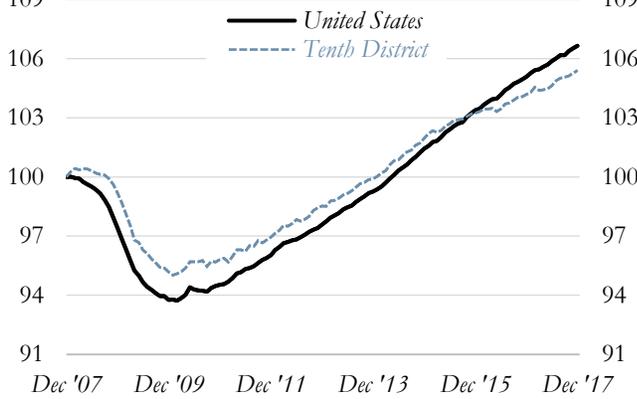
		<i>Percent Unemployed</i>			<i>Percent Unemployed</i>
<b>United States</b>		<b>4.1%</b>	23	South Carolina	4.1%
<b>Tenth District</b>		<b>3.6</b>	23	Montana	4.1
1	Alaska	7.3	27	Maryland	4.0
2	<b>New Mexico</b>	6.0	28	Texas	3.9
3	West Virginia	5.5	29	Virginia	3.7
4	New Jersey	5.0	29	Arkansas	3.7
4	Nevada	5.0	29	Florida	3.7
6	Illinois	4.8	32	Massachusetts	3.5
7	Ohio	4.7	32	Alabama	3.5
7	Pennsylvania	4.7	32	South Dakota	3.5
7	Michigan	4.7	32	<b>Missouri</b>	3.5
10	Mississippi	4.6	36	Indiana	3.4
10	Louisiana	4.6	36	<b>Kansas</b>	3.4
10	Delaware	4.6	38	Tennessee	3.2
10	New York	4.6	39	Utah	3.1
10	Connecticut	4.6	39	Minnesota	3.1
15	Washington	4.5	39	<b>Colorado</b>	3.1
15	Arizona	4.5	42	Maine	3.0
15	North Carolina	4.5	42	Wisconsin	3.0
18	Kentucky	4.4	44	Idaho	2.9
18	Georgia	4.4	45	Iowa	2.8
18	Rhode Island	4.4	45	Vermont	2.8
21	California	4.3	47	<b>Nebraska</b>	2.7
22	<b>Wyoming</b>	4.2	48	New Hampshire	2.6
23	<b>Oklahoma</b>	4.1	48	North Dakota	2.6
23	Oregon	4.1	50	Hawaii	2.0

Source: Bureau of Labor Statistics/Haver Analytics

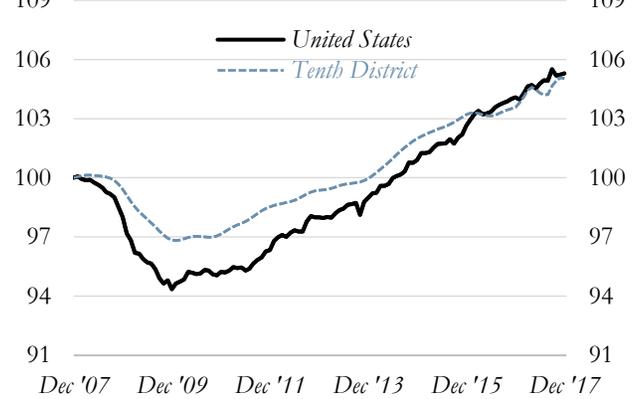
**Total Nonfarm Employment**

*Ten-Year Index of Growth, Seasonally Adjusted*

**Payroll Survey**



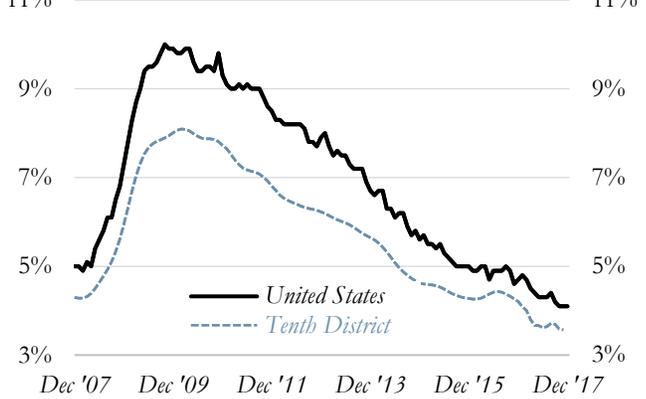
**Household Survey**



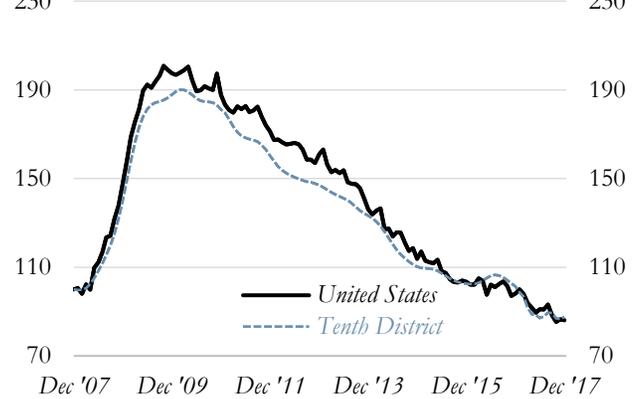
**Labor Force Dynamics**

*Ten-Year Index of Growth, Seasonally Adjusted*

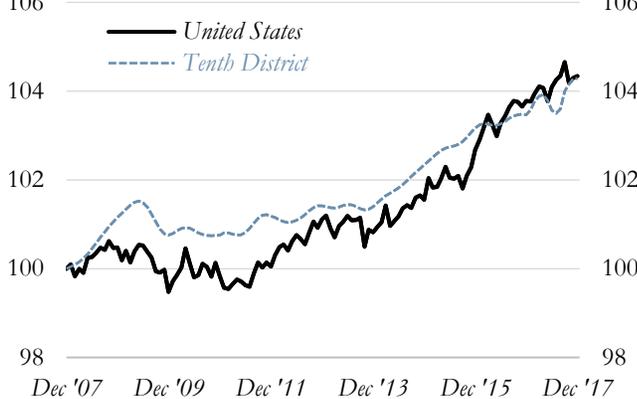
**Unemployment Rate**



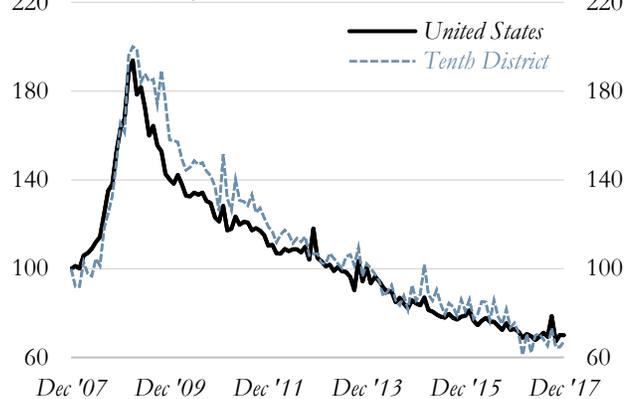
**Unemployed**



**Labor Force**



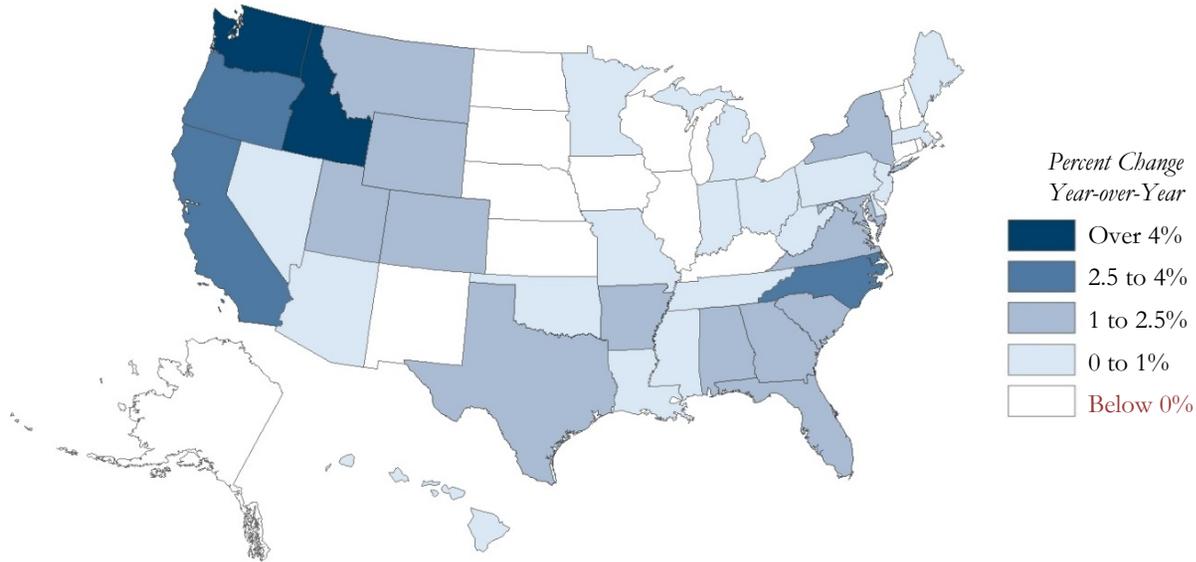
**Unemployment Insurance Claims**



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

**2017Q3 Real Personal Income**

*Seasonally Adjusted*

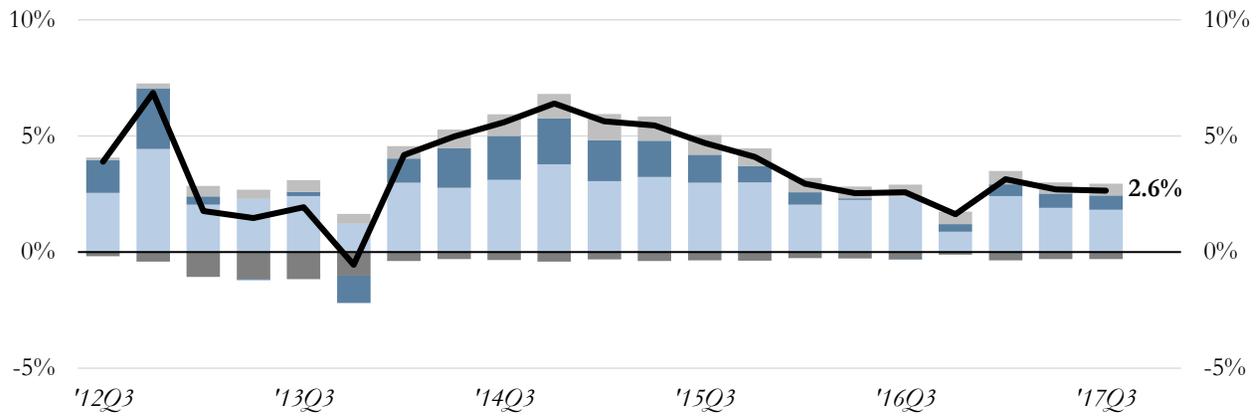


	<i>Percent Change Year-over-Year</i>	<i>Per Capita Personal Income</i>			<i>Percent Change Year-over-Year</i>	<i>Per Capita Personal Income</i>
<b>United States</b>	<b>1.1%</b>	<b>\$50,463</b>	25	Nevada	0.7%	\$44,470
<b>Tenth District</b>	<b>0.4</b>	<b>41,607</b>	26	<b>Missouri</b>	0.7	43,880
1 Washington	3.1	56,266	27	Michigan	0.6	45,403
2 Idaho	3.0	40,699	28	New Jersey	0.6	63,047
3 California	2.3	58,434	29	<b>Oklahoma</b>	0.6	43,440
4 North Carolina	2.3	43,499	30	Pennsylvania	0.5	52,309
5 Oregon	2.1	46,304	31	Ohio	0.5	45,727
6 Montana	1.9	44,014	32	Massachusetts	0.4	65,998
7 Arkansas	1.8	40,984	33	Mississippi	0.3	36,228
8 South Carolina	1.8	40,427	34	Maine	0.2	44,942
9 Utah	1.8	41,664	35	West Virginia	0.1	37,599
10 Georgia	1.7	43,233	36	Delaware	0.0	48,627
11 Florida	1.6	46,805	37	New Hampshire	-0.1	57,319
12 New York	1.4	61,409	38	Illinois	-0.2	52,929
13 <b>Colorado</b>	1.4	52,947	39	<b>Nebraska</b>	-0.2	50,456
14 Alabama	1.4	40,074	40	Vermont	-0.2	51,100
15 Texas	1.3	47,018	41	Connecticut	-0.3	70,632
16 Virginia	1.2	54,339	42	Wisconsin	-0.3	47,699
17 Maryland	1.1	59,776	43	Kentucky	-0.5	39,536
18 <b>Wyoming</b>	1.1	56,423	44	Rhode Island	-0.5	51,464
19 Louisiana	1.0	43,362	45	<b>New Mexico</b>	-0.9	38,891
20 Arizona	0.9	41,104	46	North Dakota	-1.0	55,175
21 Hawaii	0.9	51,684	47	South Dakota	-1.0	47,899
22 Minnesota	0.8	53,310	48	<b>Kansas</b>	-1.3	47,615
23 Tennessee	0.8	44,325	49	Alaska	-1.3	55,528
24 Indiana	0.7	44,296	50	Iowa	-1.6	46,038

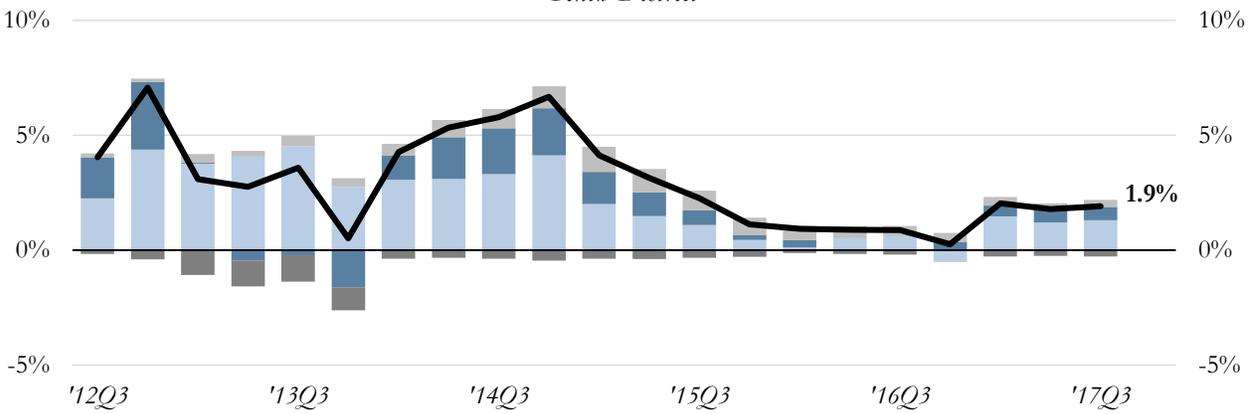
Source: Bureau of Economic Analysis/Haver Analytics

### Nominal Personal Income

*Contributions to Percent Change, Seasonally Adjusted*  
United States



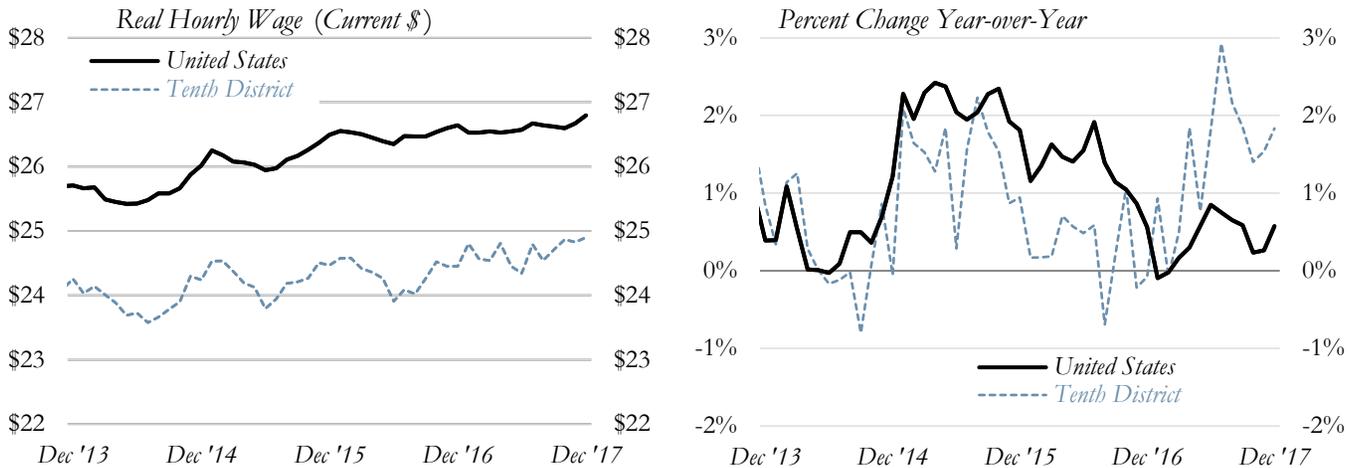
### Tenth District



Contributions to Social Insurance    
  Transfer Payments    
  Dividends, Interest & Rent  
 Residence Adjustment    
  Earnings by Place of Work    
  Total Personal Income

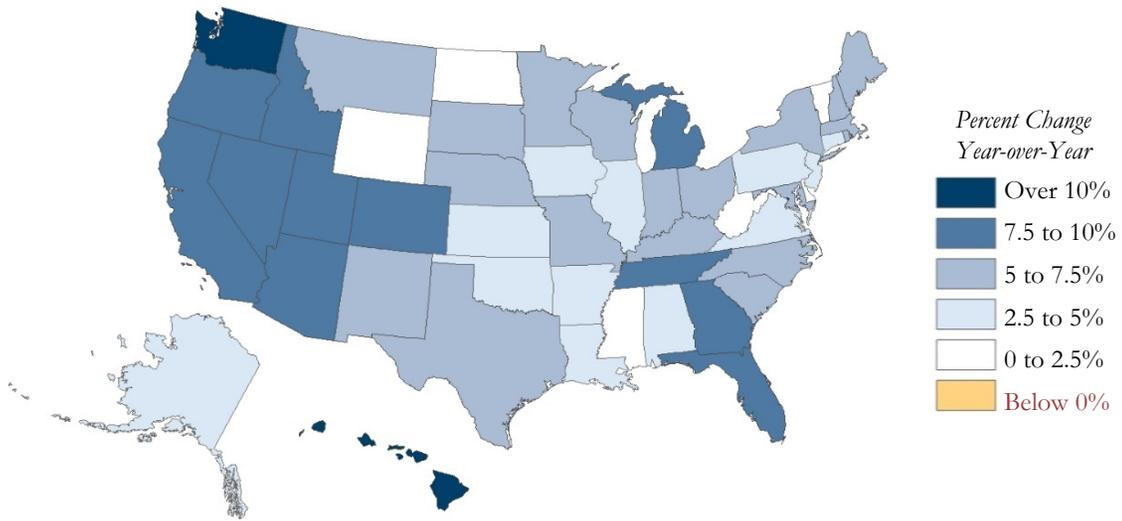
### Real Average Hourly Wage

*Seasonally Adjusted*



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

**2017Q3 FHFA Purchase-Only Home Price Index**  
*Seasonally Adjusted*



*Percent Change  
Year-over-Year*

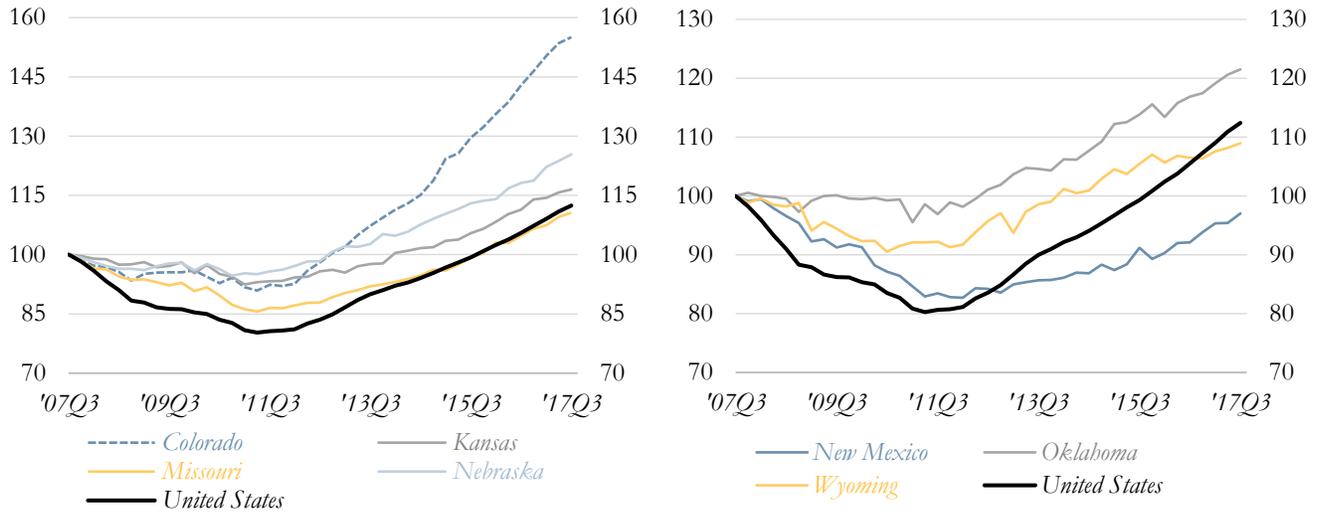
*Percent Change  
Year-over-Year*

<i>Percent Change Year-over-Year</i>			<i>Percent Change Year-over-Year</i>		
	<b>United States</b>	<b>6.5%</b>	25	North Carolina	6.0%
			26	Ohio	5.9
1	Washington	11.5	27	Maryland	5.8
2	Hawaii	10.0	28	New York	5.8
3	Arizona	10.0	29	South Dakota	5.7
4	Nevada	9.6	30	<b>Missouri</b>	5.6
5	Idaho	9.2	31	<b>New Mexico</b>	5.3
6	Utah	9.2	32	Indiana	5.0
7	Oregon	8.8	33	Virginia	4.5
8	Tennessee	8.7	34	<b>Kansas</b>	4.5
9	<b>Colorado</b>	8.5	35	Louisiana	4.4
10	California	8.4	36	Pennsylvania	4.3
11	Florida	8.1	37	Arkansas	4.3
12	Michigan	7.9	38	Alabama	4.3
13	Georgia	7.6	39	<b>Oklahoma</b>	4.0
14	Massachusetts	7.4	40	New Jersey	3.9
15	Kentucky	7.3	41	Illinois	3.8
16	Rhode Island	7.3	42	Iowa	3.6
17	South Carolina	7.2	43	Connecticut	3.1
18	Maine	7.1	44	Alaska	3.0
19	Texas	7.1	45	<b>Wyoming</b>	2.3
20	Wisconsin	6.8	46	Delaware	2.2
21	New Hampshire	6.6	47	North Dakota	2.0
22	Montana	6.5	48	Vermont	2.0
23	Minnesota	6.2	49	Mississippi	1.9
24	<b>Nebraska</b>	6.1	50	West Virginia	1.1

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

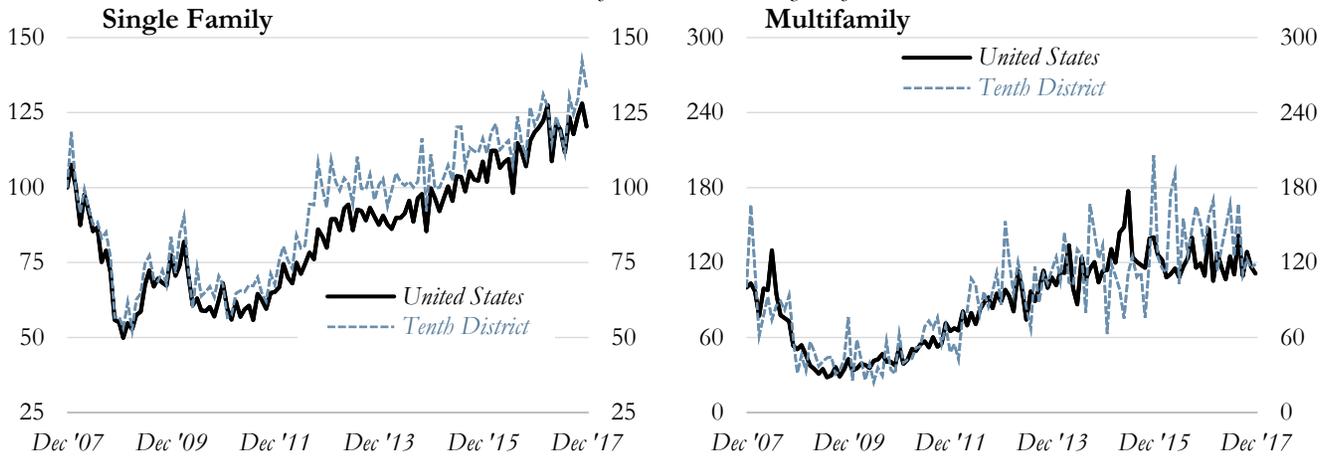
### FHFA Purchase-Only Home Price Index

Ten-Year Index of Growth, Seasonally Adjusted

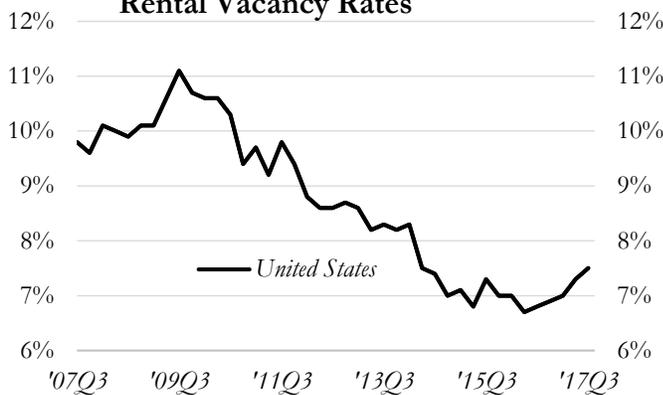


### Housing Permits

Ten-Year Index of Growth, Seasonally Adjusted



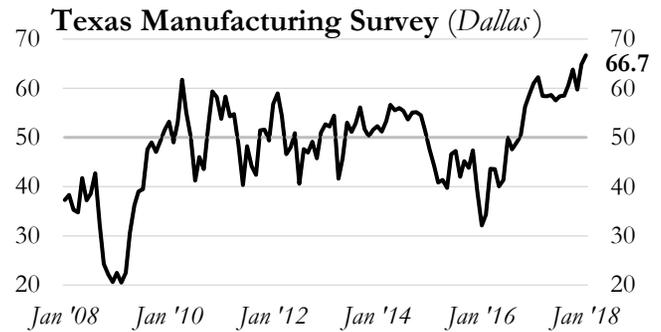
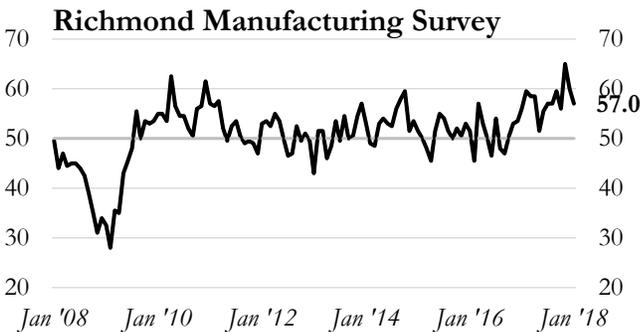
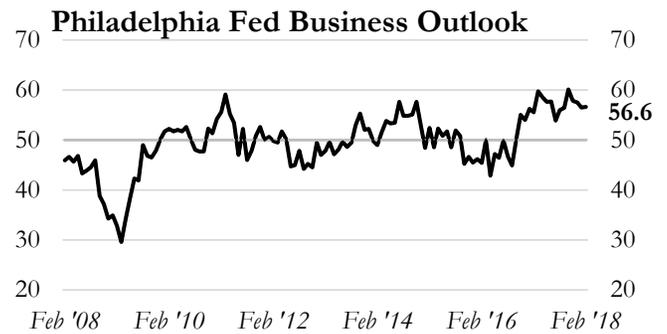
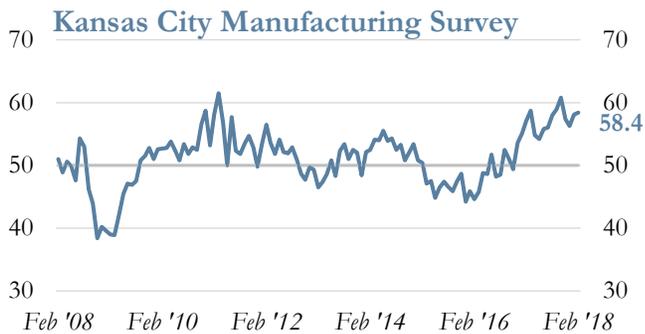
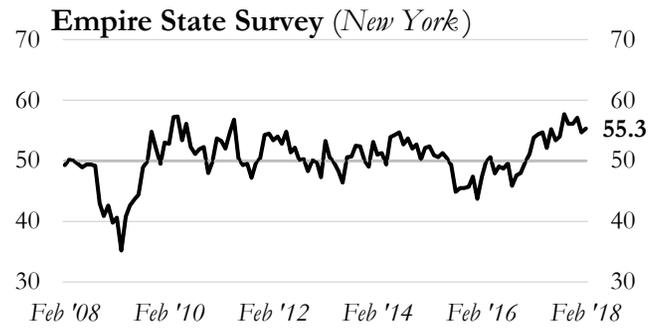
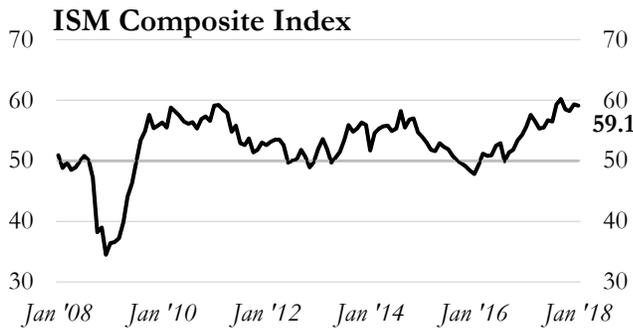
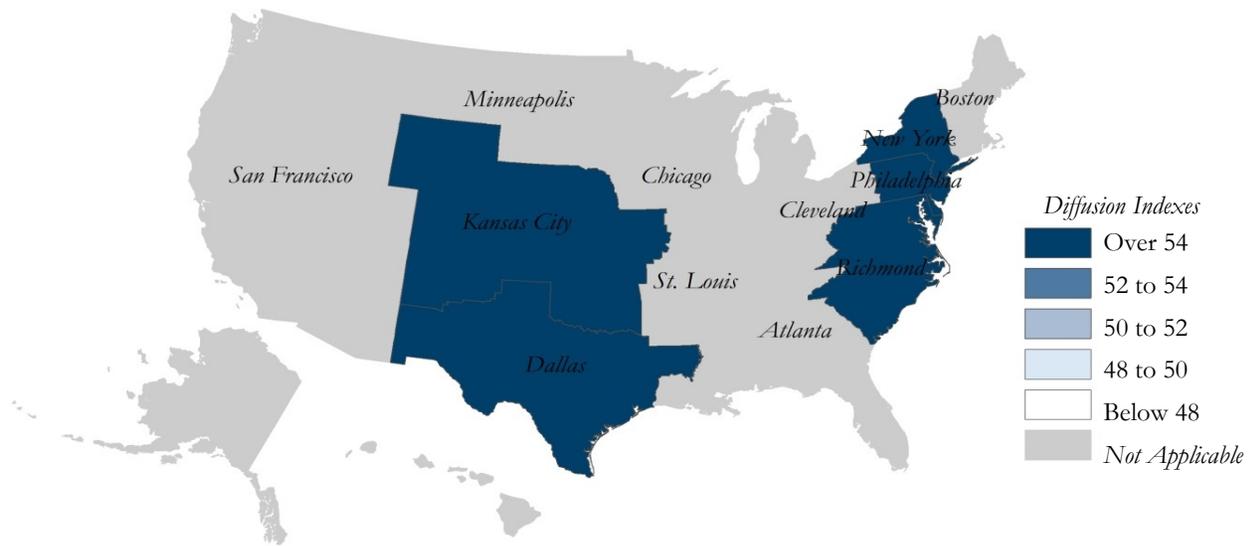
### Rental Vacancy Rates



Note: Rental Vacancy Rates are not available for the Tenth District.

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

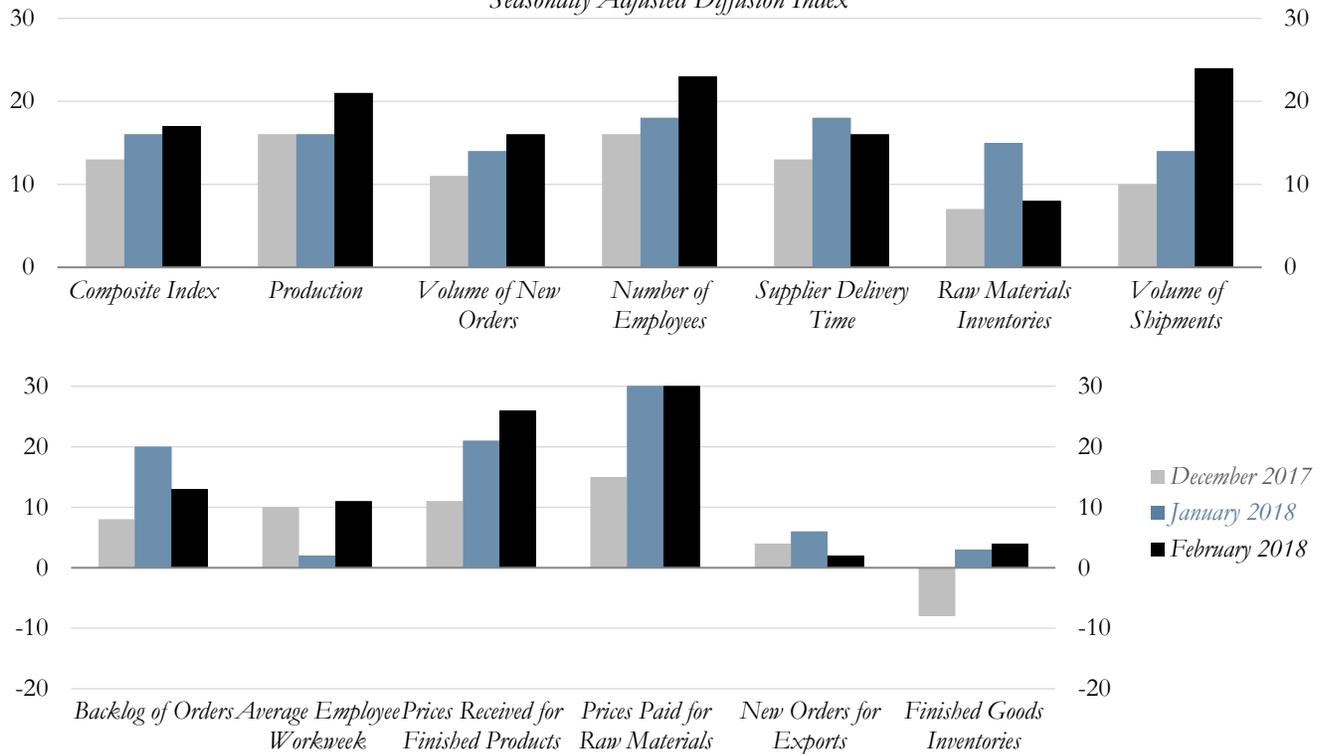
**Manufacturing Surveys**  
*Seasonally Adjusted*



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

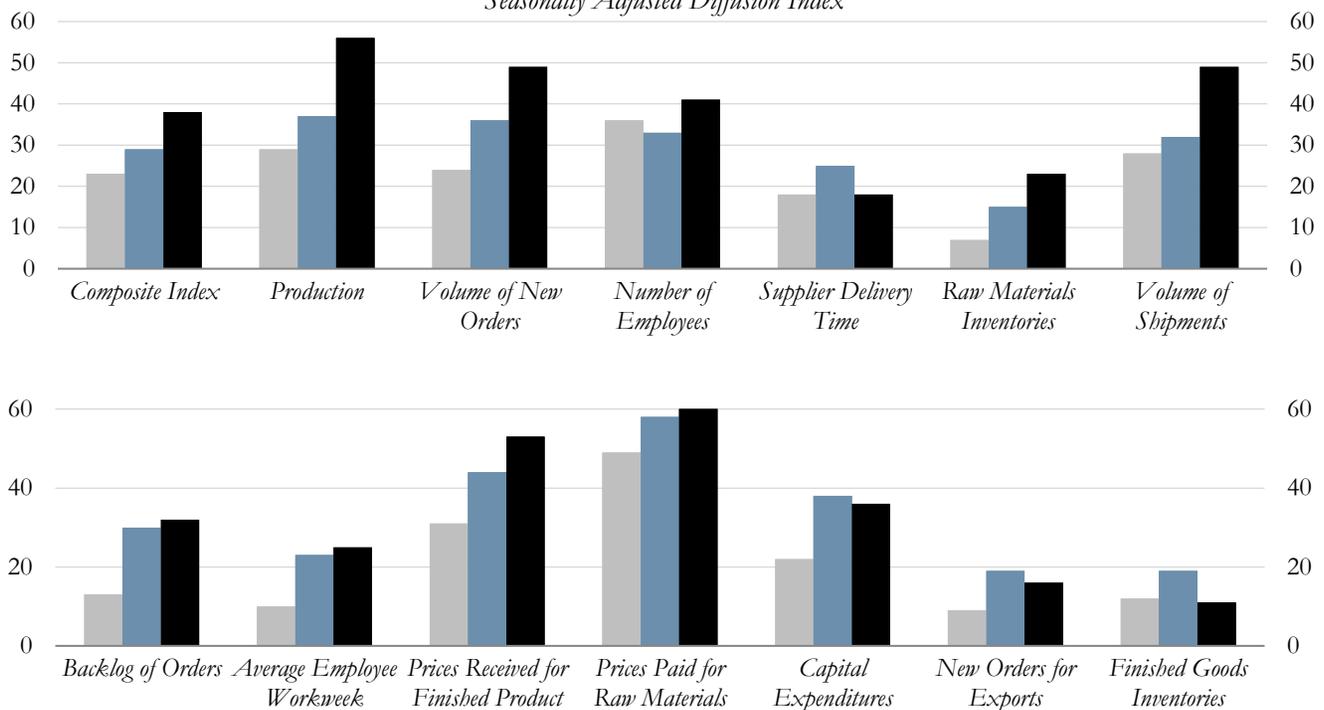
**Current Activity vs. a Month Ago**

*Seasonally Adjusted Diffusion Index*



**Expectations Six-Months Ahead**

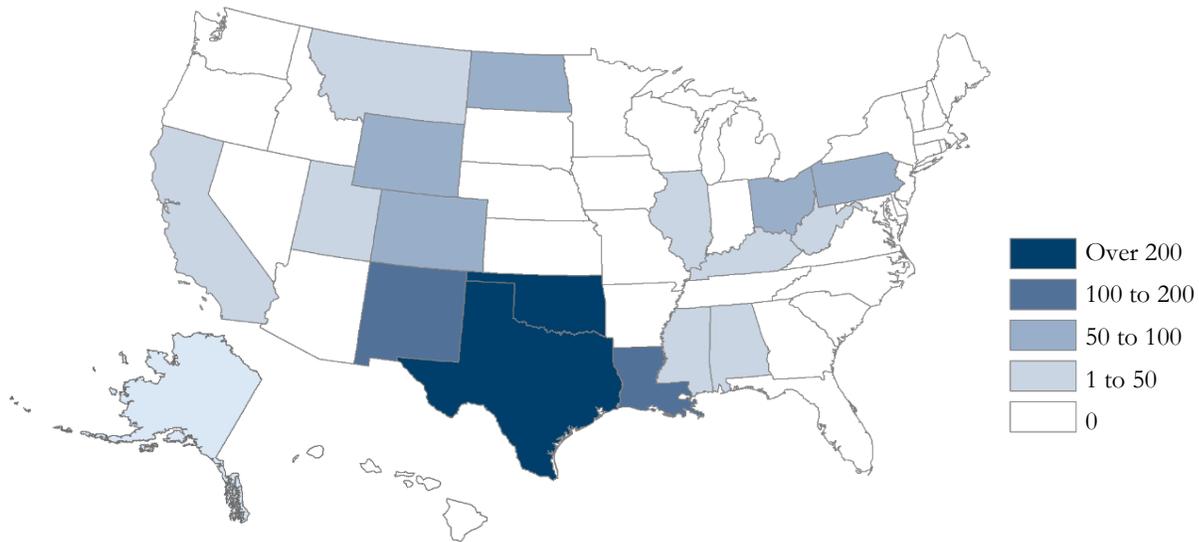
*Seasonally Adjusted Diffusion Index*



Note: Indices above zero indicate expansion.

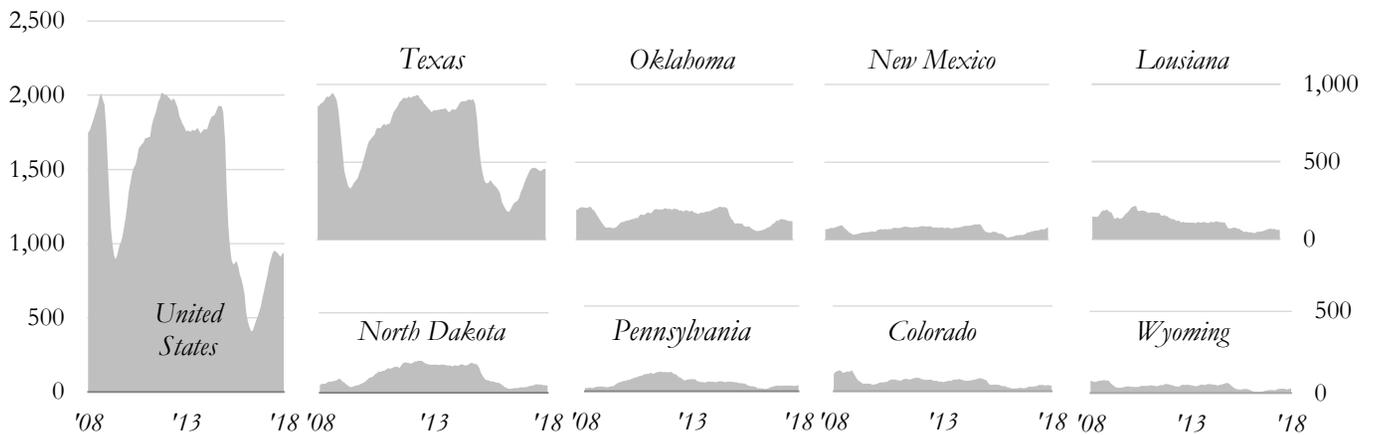
Source: Federal Reserve Bank of Kansas City/Haver Analytics

**January 2018 Active Oil & Gas Drilling Rig Counts**



	<i>Average Rig Counts During the Month</i>	<i>Percent Change Year-over-Year</i>	<i>Current Share of Activity</i>
<b>United States</b>	<b>937</b>	<b>25.9%</b>	
<b>Tenth District</b>	<b>262</b>	<b>49.7</b>	<b>28.0%</b>
<i>Top Producing States</i>			
Texas	456	35.7	48.7
<b>Oklahoma</b>	119	33.7	12.7
<b>New Mexico</b>	81	107.7	8.6
Louisiana	60	15.4	6.4
North Dakota	45	32.4	4.8
Pennsylvania	37	12.1	3.9
<b>Colorado</b>	34	21.4	3.6
<b>Wyoming</b>	28	47.4	3.0
Ohio	25	25.0	2.7
West Virginia	15	87.5	1.6

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

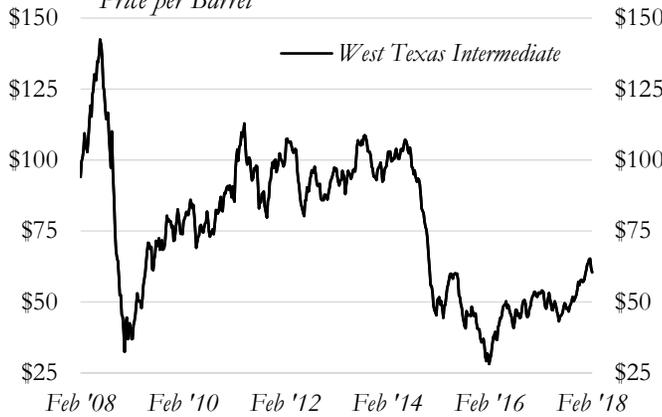


Source: Baker Hughes/Haver Analytics

**Spot Prices**

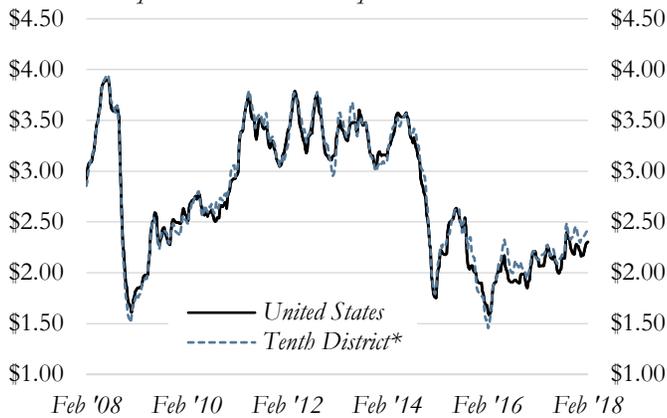
**Crude Oil**

*Price per Barrel*



**Gasoline**

*Price per Gallon at the Pump*



**Natural Gas**

*Price per Thousand Cubic Feet*

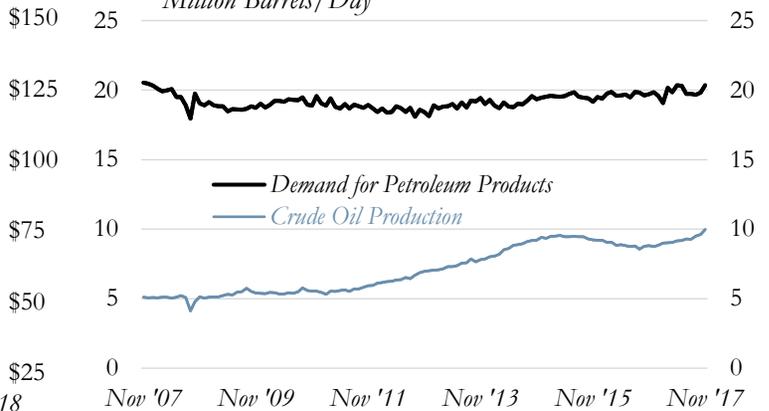


**U.S. Supply/Demand Dynamics**

*Seasonally Adjusted*

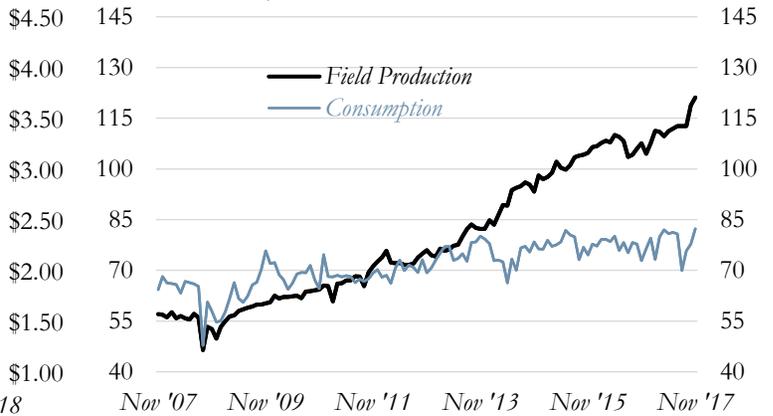
**Crude Oil**

*Million Barrels/Day*



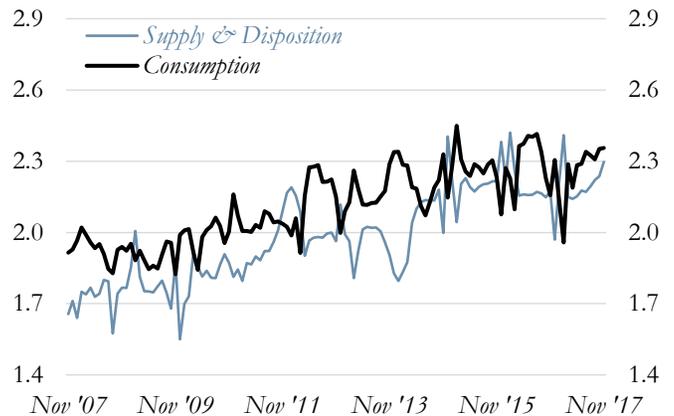
**Natural Gas Liquids**

*Million Barrels/Month*



**Natural Gas**

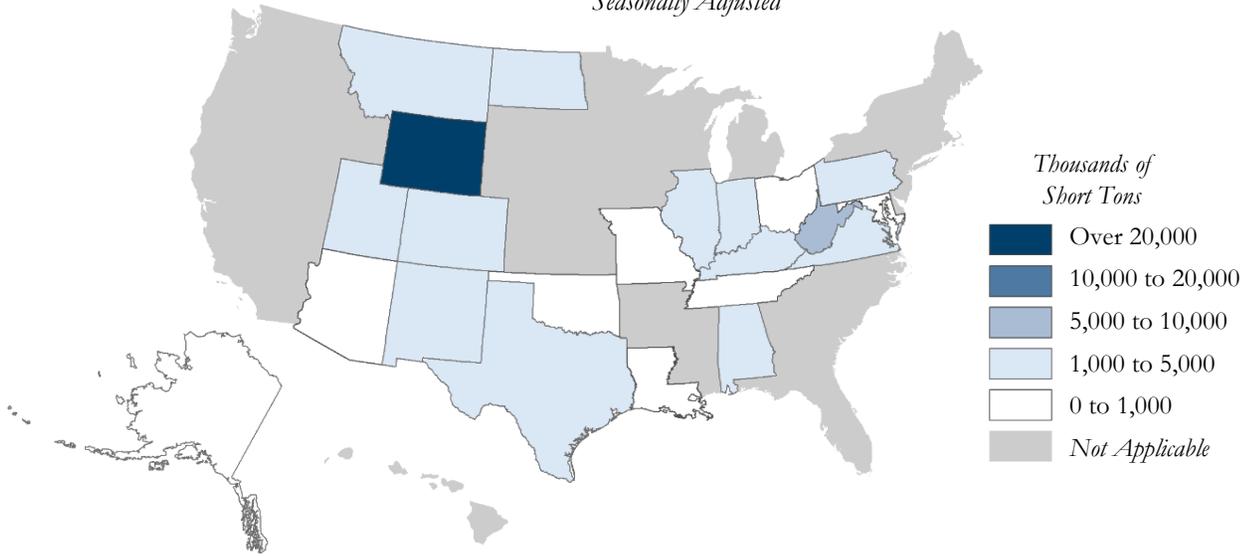
*Trillion Cubic Feet/Month*



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

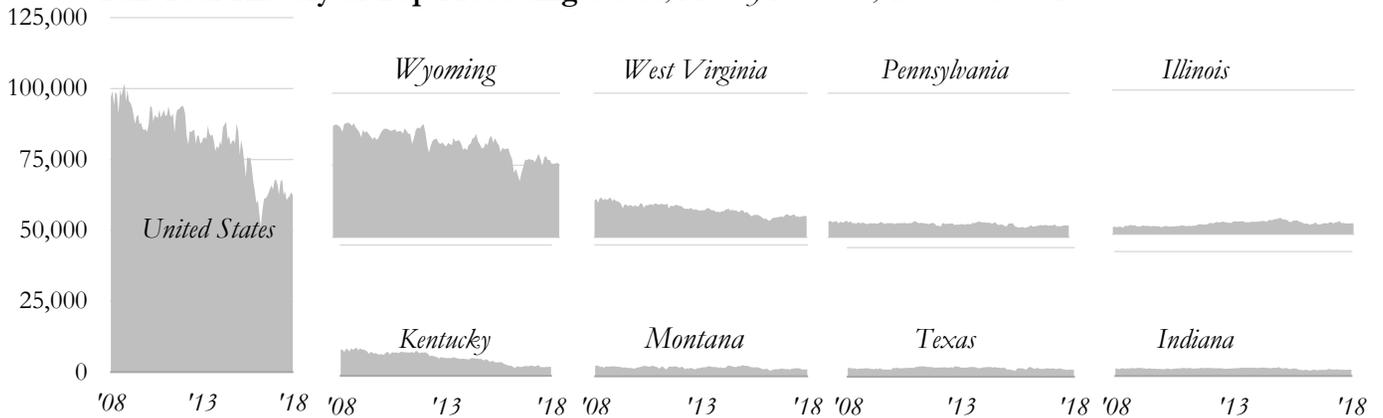
Source: Wall Street Journal, Oil & Gas Journal & Department of Energy, Energy Information Administration/Haver Analytics

**January 2018 Coal Production**  
*Seasonally Adjusted*



	<i>Monthly Production (Thousand Short Tons)</i>	<i>Percent Change Year-over-Year</i>	<i>Current Share of Production</i>
<b>United States</b>	<b>62,409.9</b>	<b>-7.4%</b>	
<b>Tenth District*</b>	<b>28,074.9</b>	<b>-6.5</b>	<b>45.0%</b>
<i>Top Producing States</i>			
<b>Wyoming</b>	25,350.7	-7.3	40.6
West Virginia	7,386.7	-5.0	11.8
Pennsylvania	4,041.6	-4.7	6.5
Illinois	3,772.6	-6.3	6.0
Kentucky	3,425.0	-10.7	5.5
Montana	2,697.5	1.5	4.3
Texas	2,649.6	-16.0	4.2
Indiana	2,400.6	-11.7	3.8
North Dakota	2,064.0	-12.1	3.3
<b>Colorado</b>	1,554.6	11.4	2.5

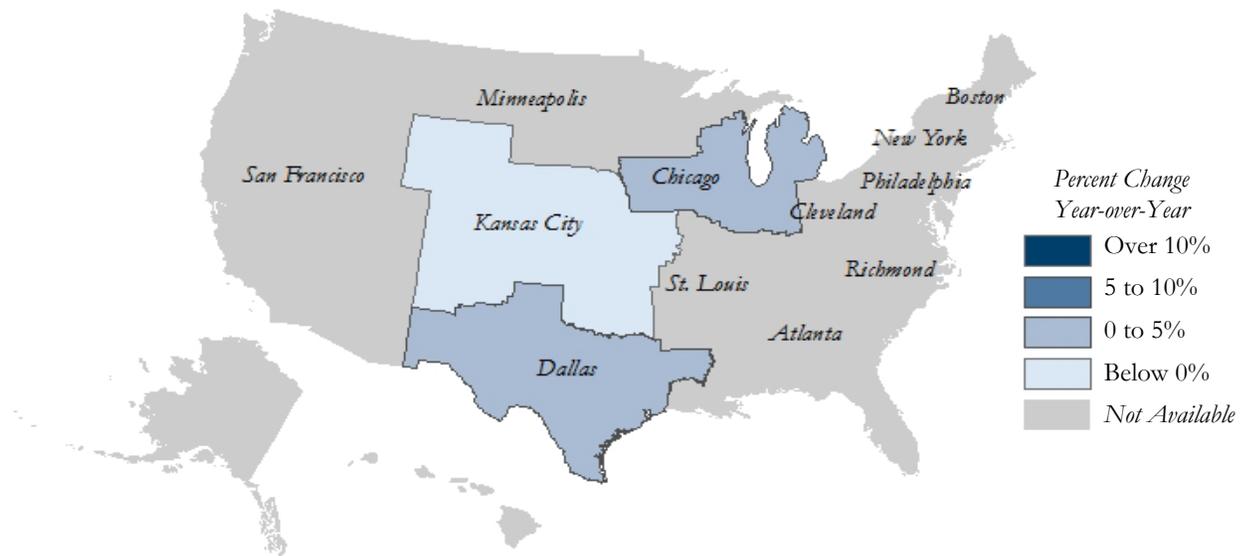
**Ten-Year History of Top Producing States, Monthly Production, Thousand Short Tons**



\*Includes all Tenth District states but Nebraska.

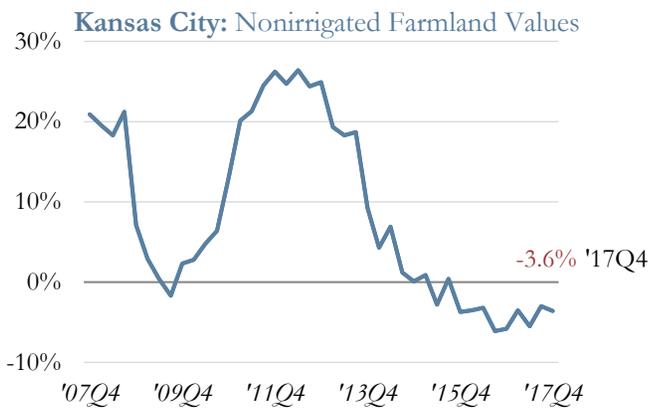
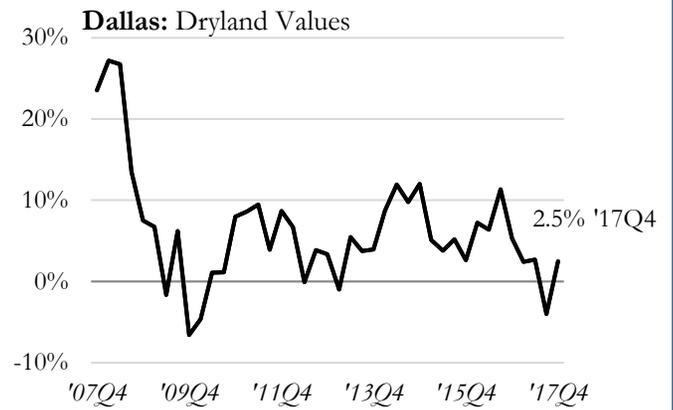
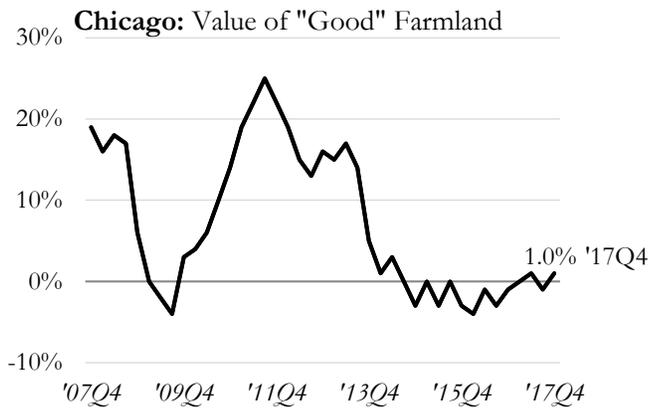
Source: U.S. Department of Energy, Energy Information Administration/Haver Analytics

**Farm Land Values\***



**Farmland Values by Federal Reserve District**

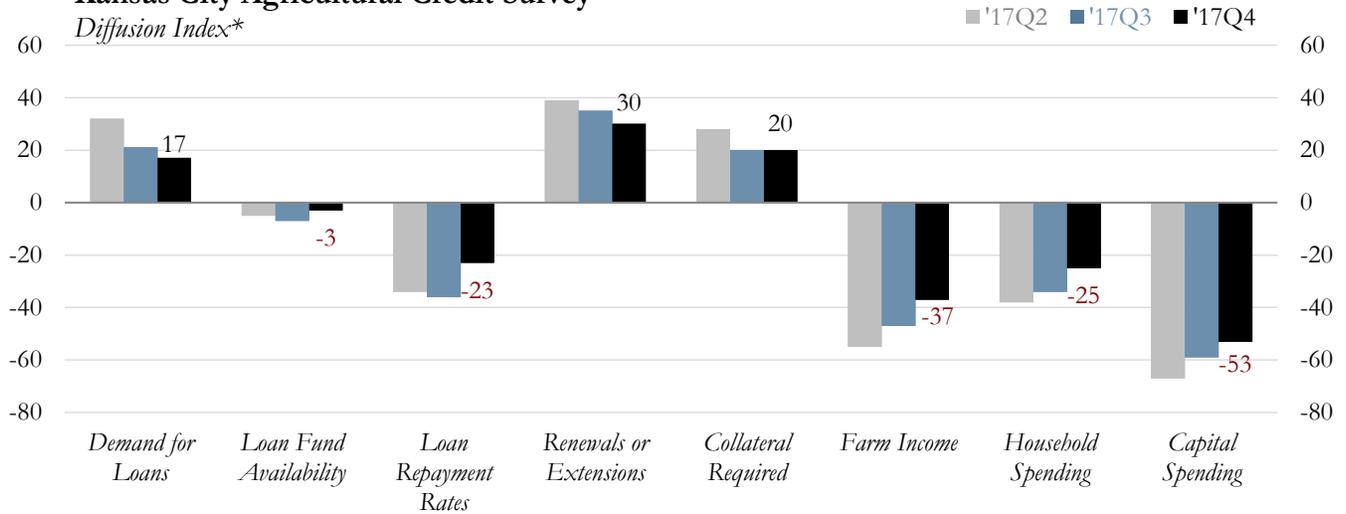
*Percent Change Year-over-Year*



\*Values shown for the most recent survey available for each district.  
 Source: Federal Reserve District Banks/Haver Analytics

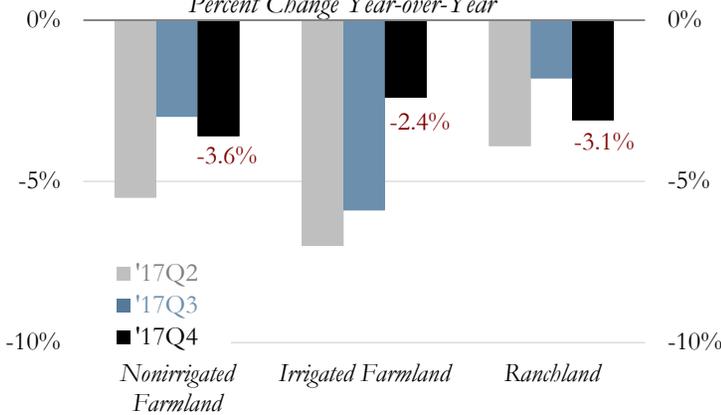
**Kansas City Agricultural Credit Survey**

*Diffusion Index\**

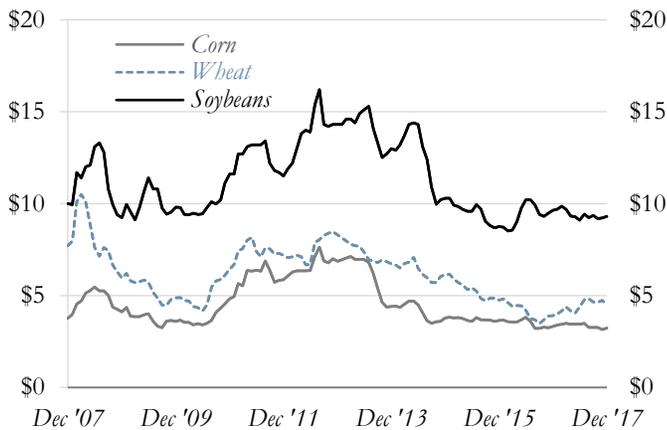


**Tenth District Farmland Values**

*Percent Change Year-over-Year*

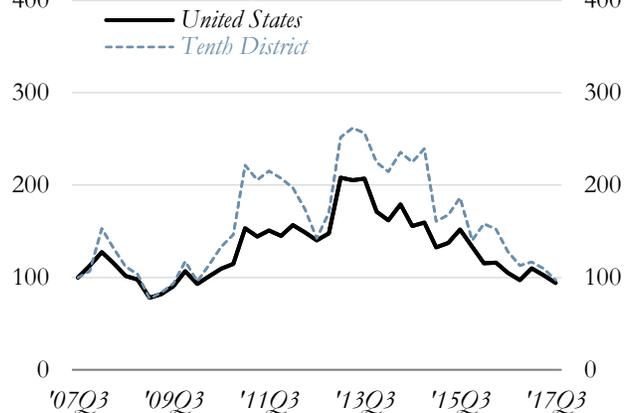


**Spot Prices**



**Farm Income**

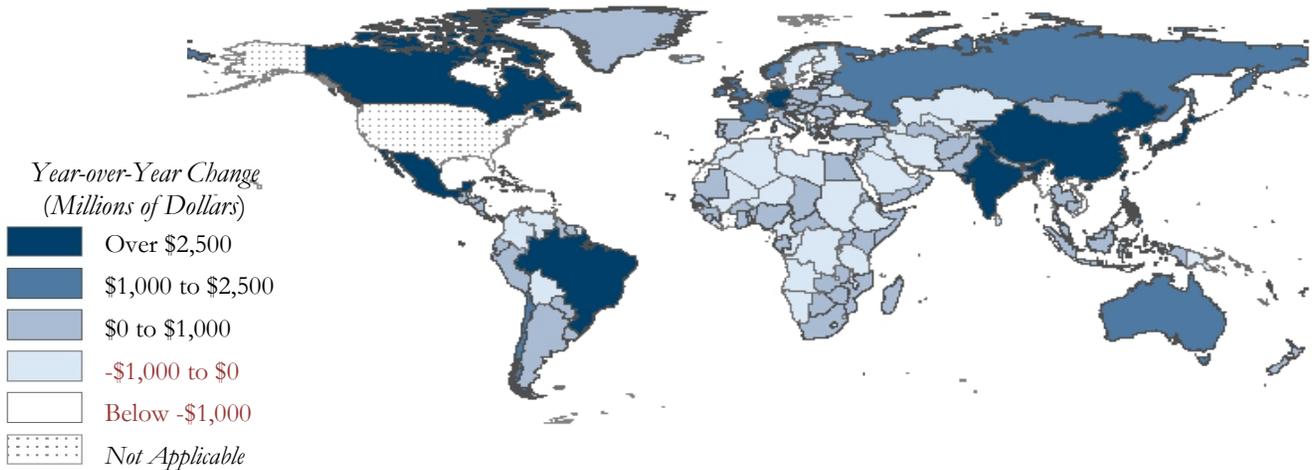
*Ten-Year Index of Growth*



\*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

**2017Q4 U.S. Exports**  
*Year-to-Date*



		<i>Exports Year-to-Date</i> <i>(Billions of Dollars)</i>	<i>Percent Change</i> <i>Year-to-Date</i>	<i>Share of Exports</i> <i>Year-to-Date</i>
	<b>United States</b>	<b>\$1,546,732.0</b>	<b>6.4%</b>	
<i>Top Export Markets</i>	Canada	282.5	6.2	18.3%
	Mexico	243.0	5.2	15.7%
	China*	196.6	10.9	12.7%
	Japan	67.7	7.0	4.4%
	United Kingdom	56.3	1.7	3.6%
	Germany	53.5	8.4	3.5%
	South Korea	48.3	14.2	3.1%
	Netherlands Antilles	42.2	4.6	2.7%
	Brazil	37.1	22.4	2.4%
	France	33.6	8.5	2.2%

**Ten-Year History of U.S. Top Export Countries**  
*Billions in Quarterly Exports*



Source: Census Bureau/Haver Analytics

\*Includes China, Hong Kong, Taiwan & Macao.

*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](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
- Economic Research
- Educational Tools
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