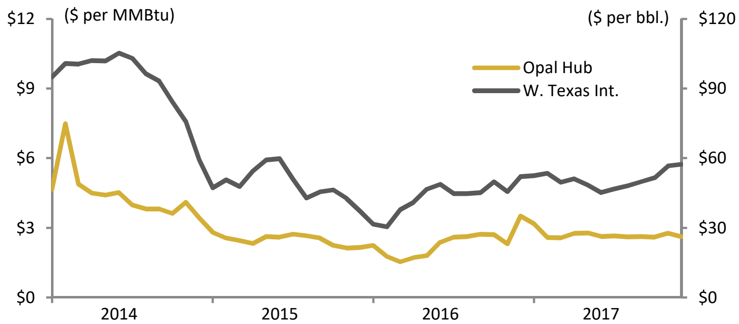
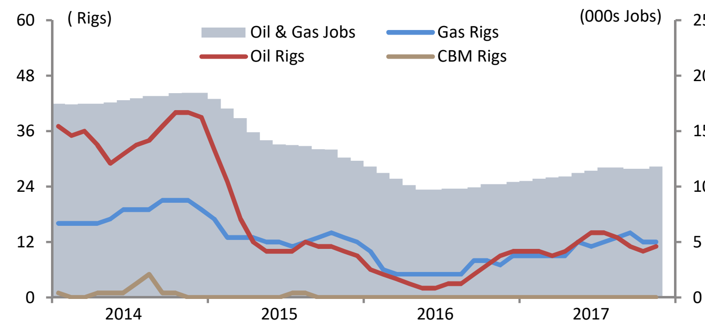
Wyoming Insight

WYOGOV

ECONOMIC ANALYSIS DIVISION • DECEMBER 2017

▸ Energy index: natural gas and crude oil prices, rig counts, and oil & gas employment.[1,3,8]



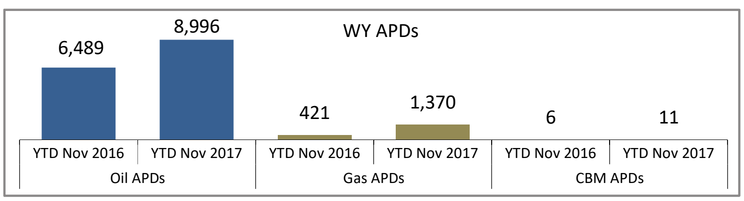


▸▸ The Opal Hub natural gas price averaged $2.61 per MMBtu in December, a decrease of 5.4% compared to November and $0.90 per MMBtu lower than a year ago. WTI crude oil price increased by 1.3% in December (compared to November) and was $5.35 per bbl. higher in a year-over-year comparison.

▸▸ Oil & gas jobs numbered 11,800 in November, 1,600 more when compared to a year ago. Active oil rigs were 11 in November while the conventional gas rig count was 12. *Note: Oil & gas jobs includes both the NAICS 211 (oil and gas extraction) and NAICS 213 (support activities for mining) subsectors.*

NATURAL GAS	[$/MMBtu]		
Historical Spot Prices [1]	**Oct 2017**	**Nov 2017**	**Dec 2017 TD**
Opal Hub	$2.59	$2.76	$2.61
Cheyenne Hub	$2.54	$2.73	$2.45
Henry Hub	$2.87	$2.99	$2.77
Futures [2] *(As of 12.21.17)*	**Feb 2018**	**Mar 2018**	**Apr 2018**
NYMEX - Henry Hub	$2.63	$2.59	$2.53
Oct 2017 CREG [5]	**CY 2017**	**CY 2018-20**	**CY 2021-22**
CREG - All Gas ($ per Mcf)	$3.00	$3.10-$3.15	$3.25

RIGS & APDs*[3]	Sep 17/16	Oct 17/16	Nov 17/16
Oil Rigs	11/5	10/7	11/9
Conventional Gas Rigs	14/8	12/8	12/7
Oil APDs	848/626	1,250/762	1,375/807
Conventional Gas APDs	47/34	98/65	108/10



**Active conventional drilling rigs and applications for permits to drill (APDs).*

CRUDE OIL	[$/bbl.]		
Historical Spot Prices [1]	**Oct 2017**	**Nov 2017**	**Dec 2017 TD**
WY Sour	$41.08	$46.57	$47.28
WY Sweet	$48.39	$53.54	$54.25
W.Texas Int.	$51.56	$56.65	$57.36
Futures [2] *(As of 12.21.17)*	**Feb 2018**	**Mar 2018**	**Apr 2018**
NYMEX - WTI	$58.24	$58.28	$58.27
Oct 2017 CREG [5]	**CY 2017**	**CY 2018-20**	**CY 2021-22**
CREG - All Oil	$45.00	$45.00-$50.00	$52.00
Differential $/bbl. [3]	**Oct 2017**	**Nov 2017**	**Dec 2017 TD**
WY Sour vs. WTI	($10.48)	($10.08)	($10.08)
WY Sweet vs. WTI	($3.17)	($3.11)	($3.11)

COAL - PRB*	[$/ton]		
Historical Spot Prices [1]	**Oct 2017**	**Nov 2017**	**Dec 2017 TD**
PRB* 8800 Btu	$11.70	$11.97	$12.10
Oct 2017 CREG [5]	**CY 2017**	**CY 2018-20**	**CY 2021-22**
CREG Surface Coal	$12.75	$12.50-$12.75	$12.50
WY Coal Production [11]	**Sep 17/16**	**Oct 17/16**	**Nov 17/16**
Millions of Tons	28.4/29.1	28.0/29.3	27.2/28.6

**Powder River Basin*

▸ Business indicators: cost of living, unemployment rates, per capita and quarterly personal income, and ag price index.

COST OF LIVING	2Q-2016	4Q-2016	2Q-2017
Wyoming[6]	-0.6%	0.6%	1.1%
U.S. CPI[8]	1.0%	2.1%	1.6%

Cost of living measured as the percent change from the preceding year.

JOBLESS RATES[8]	Sep 2017	Oct 2017	Nov 2017
Wyoming - Seasonally Adj.	4.0%	4.2%	4.3%
U.S. - Seasonally Adj.	4.2%	4.1%	4.1%

PERSONAL INCOME[9]	Wyoming	Rocky Mtn	U.S.
Year 2016 - Per Capita	$55,116	$46,749	$49,246

Revised personal income estimates released on September 28, 2017.

QUARTERLY PI[9]	1Q-2017	2Q-2017	3Q-2017
Wyoming	1.7%	0.9%	0.4%
Rocky Mountain Region	1.7%	0.8%	0.6%
U.S.	1.4%	0.6%	0.7%

Personal income measured as the percent change from the preceding quarter.

AG PRICE INDEX[12]	Aug 17/16	Sep 17/16	Oct 17/16
U.S. - All Production	93/90	92/86	87/81
U.S. - Crop Production	88/85	89/84	82/79
U.S. - Livestock Production	99/94	95/89	94/82

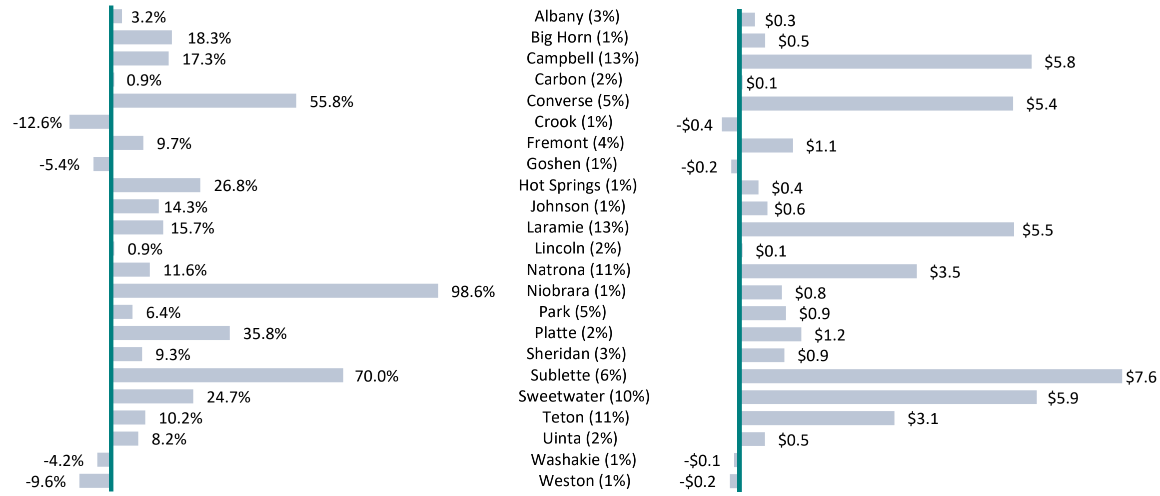
Prices received indexes; 2011 base.

▸ Energy benchmarks: for fiscal and calendar years to date.

SPOT PRICES [As of December 21, 2017]		FY 2018 TD	CY 2017 TD
Opal Hub ($/MMBtu)	....	$2.65	$2.70
Cheyenne Hub ($/MMBtu)	....	$2.59	$2.66
Henry Hub ($/MMBtu)	....	$2.91	$2.96
W. Texas Int. ($/bbl.)	....	$51.40	$50.63
Powder River Coal ($/ton)	....	$11.70	$11.62
Uranium ($/lb.)[4]	....	$21.21	$21.72

Data sources: [1]Bloomberg, [2]NYMEX, [3]WY Oil & Gas Conservation Commission, [4]Ux Consult. Co., [5]October 2017 CREG Forecast, [6]WY Dept. of Admin. & Info.'s Economic Analysis Division, [7]WY Dept. of Revenue, [8]U.S. Bureau of Labor Statistics, [9]U.S. Bureau of Economic Analysis, [10]U.S. Bureau of Census, [11]Energy Information Administration, and [12]USDA's National Agricultural Statistics Service.

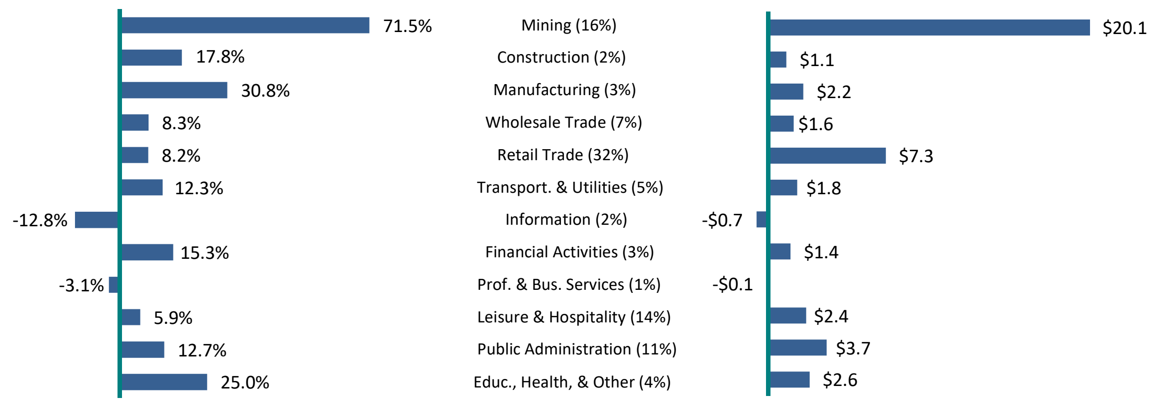
State & local shares of 4% sales and use tax collections.[7] [Growth by County: cumulative change, fiscal-year-to-date, over the year]



⏩ After five months of fiscal 2018 (July 1, 2017 through November 30, 2017), sales and use tax collections were leading fiscal 2017 by $43.5 million or 16.6 percent. Sublette, Sweetwater, and Campbell counties outpaced the rest of the state in dollars collected. Collections for Niobrara and Sublette counties grew the fastest among all 23 counties compared to a year ago.

Note: Value in parentheses represents share of total collections.

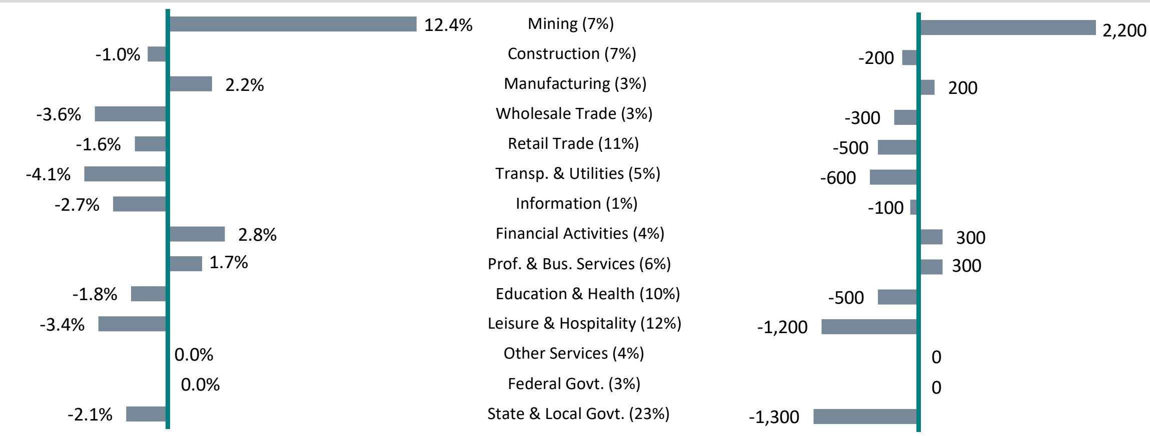
State & local shares of 4% sales and use tax collections.[7] [Growth by Industry Sector: cumulative change, fiscal-year-to-date, over the year]



⏩ The mining sector (+$20.1 million) accounted for the largest year-to-date gain from an industry perspective. Information and professional & business services were the only sectors that were lagging in collections in a year ago comparison.

Note: Value in parentheses represents share of total collections.

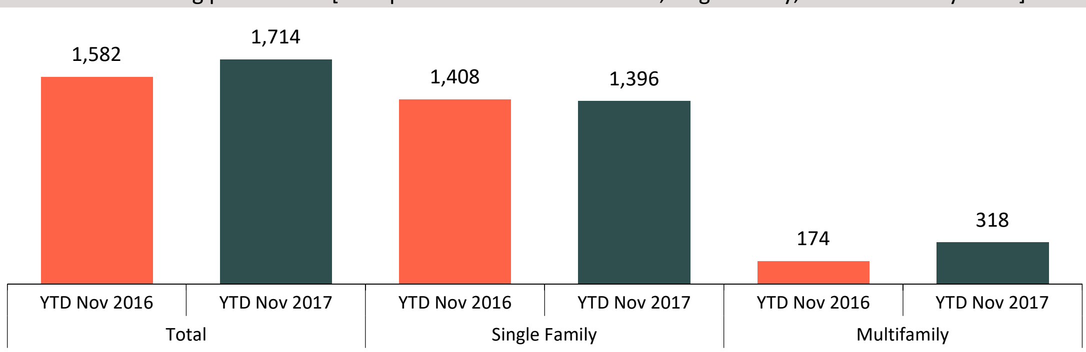
Nonfarm wage and salary employment.[8] [Growth by Industry Sector: Year-over-year by percent and jobs; seasonally adjusted]



⏩ Overall, Wyoming had 1,700 fewer jobs in November compared to a year ago, a decline of 0.6 percent. Industries associated with goods production added 2,200 jobs, while service-providing jobs declined by 3,900, both in comparison to a year ago. The private sector declined by 400 jobs while government jobs decreased by 1,300 from a year ago.

Note: Value in parentheses represents share of total jobs.

Residential building permits.[10] [Comparisons: Year-to-date total, single family, and multifamily units]



⏩ The number of total housing units permitted through the end of November 2017 were running ahead the 2016 pace by 8.3 percent. Single family units were lagging last year's pace by 0.9 percent. The number of multifamily units increased by 82.8 percent or 144 units during the same period compared to 2016.

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