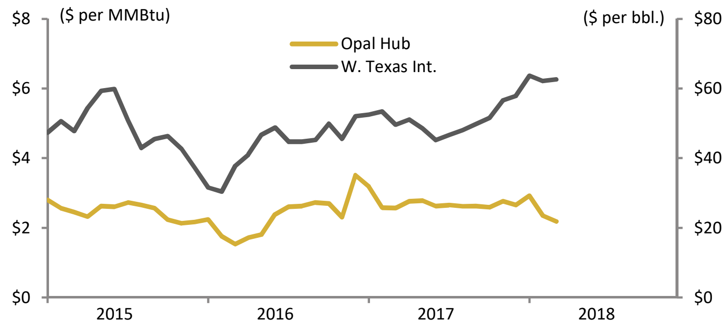
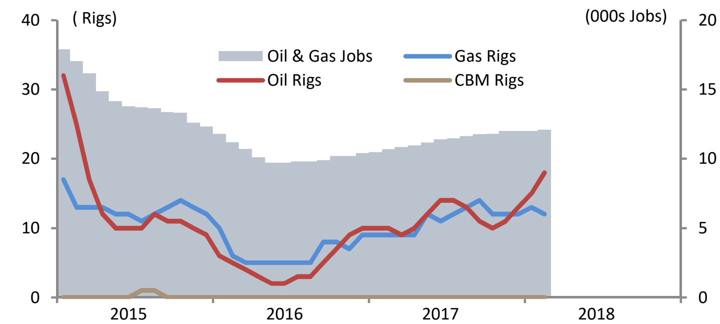
# Wyoming Insight

WYOGOV

ECONOMIC ANALYSIS DIVISION • MARCH 2018

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



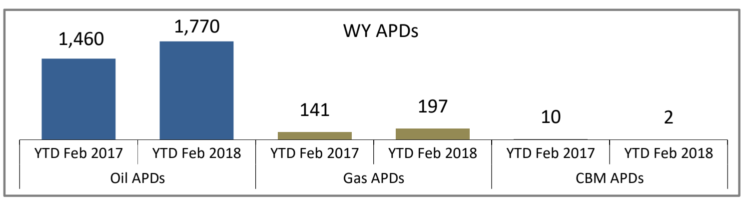

The Opal Hub natural gas price averaged $2.18 per MMBtu in March, a decrease of 7.2% compared to February and $0.39 per MMBtu lower than a year ago. WTI crude oil price increased by 0.6% in March (compared to February) and was $12.99 per bbl. higher in a year-over-year comparison.

Oil & gas jobs numbered 12,100 in February, 1,400 more when compared to a year ago. Active oil rigs were 18 in February 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] | **Jan 2018** | **Feb 2018** | **Mar 2018 TD** |
| Opal Hub | $2.92 | $2.35 | $2.18 |
| Cheyenne Hub | $3.05 | $2.32 | $2.16 |
| Henry Hub | $3.88 | $2.67 | $2.69 |
| *Futures* [2] *(As of 03.27.18)* | **May 2018** | **Jun 2018** | **Jul 2018** |
| NYMEX - Henry Hub | $2.71 | $2.76 | $2.82 |
| *Jan 2018 CREG* [5] | **CY 2017** | **CY 2018-20** | **CY 2021-22** |
| CREG - All Gas ($ per Mcf) | $3.00 | $3.10-$3.15 | $3.25 |

| CRUDE OIL | [ $/bbl. ] | | |
|---|---|---|---|
| *Historical Spot Prices* [1] | **Jan 2018** | **Feb 2018** | **Mar 2018 TD** |
| WY Sour | $44.57 | $39.73 | $40.13 |
| WY Sweet | $61.04 | $59.75 | $60.15 |
| W.Texas Int. | $63.67 | $62.17 | $62.57 |
| *Futures* [2] *(As of 03.27.18)* | **May 2018** | **Jun 2018** | **Jul 2018** |
| NYMEX - WTI | $64.68 | $64.63 | $64.30 |
| *Jan 2018 CREG* [5] | **CY 2017** | **CY 2018-20** | **CY 2021-22** |
| CREG - All Oil | $45.00 | $50.00-$50.00 | $50.00-$50.00 |
| *Differential $/bbl.* [3] | **Jan 2018** | **Feb 2018** | **Mar 2018 TD** |
| WY Sour vs. WTI | ($19.10) | ($22.44) | ($22.44) |
| WY Sweet vs. WTI | ($2.63) | ($2.42) | ($2.42) |

| RIGS & APDs*[3] | Dec 17/16 | Jan 18/17 | Feb 18/17 |
|---|---|---|---|
| Oil Rigs | 13/10 | 15/10 | 18/10 |
| Conventional Gas Rigs | 12/9 | 13/9 | 12/9 |
| Oil APDs | 2,029/877 | 1,061/728 | 709/732 |
| Conventional Gas APDs | 34/21 | 104/111 | 93/30 |




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

| COAL - PRB* | [ $/ton ] | | |
|---|---|---|---|
| *Historical Spot Prices* [1] | **Jan 2018** | **Feb 2018** | **Mar 2018 TD** |
| PRB* 8800 Btu | $12.22 | $12.27 | $12.40 |
| *Jan 2018 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] | **Dec 17/16** | **Jan 18/17** | **Feb 18/17** |
| Millions of Tons | 26.7/27.0 | 25.8/27.9 | 25.0/26.3 |

**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] | Dec 2017 | Jan 2018 | Feb 2018 |
|---|---|---|---|
| Wyoming - Seasonally Adj. | 4.1% | 4.1% | 4.0% |
| U.S. - Seasonally Adj. | 4.1% | 4.1% | 4.1% |

| PERSONAL INCOME[9] | Wyoming | Rocky Mtn | U.S. |
|---|---|---|---|
| Year 2017 - Per Capita | $56,724 | $48,023 | $50,392 |

*Preliminary personal income estimates released on March 22, 2018.*

| QUARTERLY PI[9] | 2Q-2017 | 3Q-2017 | 4Q-2017 |
|---|---|---|---|
| Wyoming | 0.9% | 0.0% | 1.0% |
| Rocky Mountain Region | 0.7% | 1.2% | 1.2% |
| U.S. | 0.6% | 0.8% | 1.1% |

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

| AG PRICE INDEX[12] | Nov 17/16 | Dec 17/16 | Jan 18/17 |
|---|---|---|---|
| U.S. - All Production | 91/83 | 92/88 | 86/86 |
| U.S. - Crop Production | 81/81 | 84/81 | 78/77 |
| U.S. - Livestock Production | 102/86 | 100/95 | 93/93 |

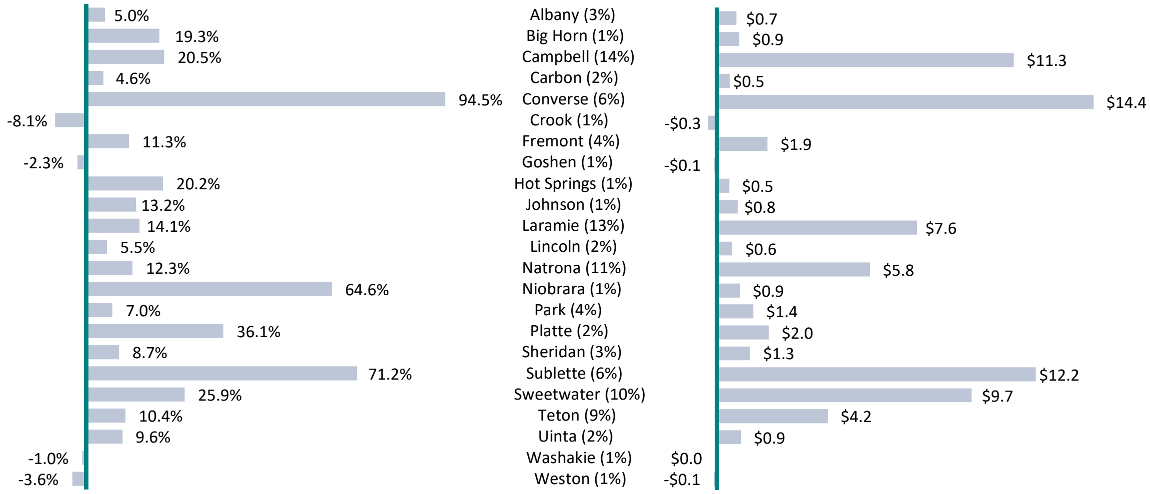
*Prices received indexes; 2011 base.*

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

| SPOT PRICES [ As of March 27, 2018 ] | | FY 2018 TD | CY 2018 TD |
|---|---|---|---|
| Opal Hub ($/MMBtu) | ........... | $2.59 | $2.51 |
| Cheyenne Hub ($/MMBtu) | ........... | $2.54 | $2.54 |
| Henry Hub ($/MMBtu) | ........... | $2.97 | $3.12 |
| W. Texas Int. ($/bbl.) | ........... | $55.27 | $62.83 |
| Powder River Coal ($/ton) | ........... | $11.90 | $12.29 |
| Uranium ($/lb.)[4] | ........... | $21.24 | $21.70 |

**Data sources**: [1]Bloomberg, [2]NYMEX, [3]WY Oil & Gas Conservation Commission, [4]Ux Consult. Co., [5]January 2018 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.

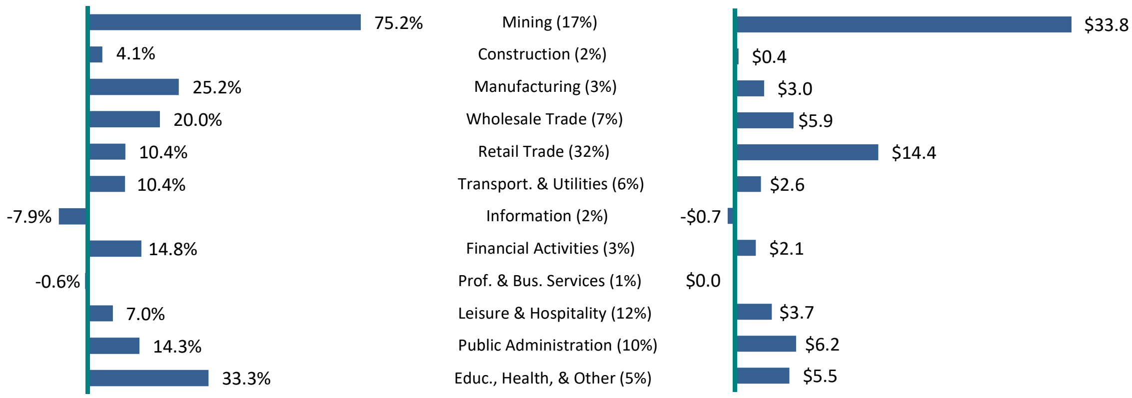
## State & local shares of 4% sales and use tax collections.[7] [ Growth by County: cumulative change, fiscal-year-to-date, over the year ]




After eight months of fiscal 2018 (July 1, 2017 through February 28, 2018), sales and use tax collections reached $477.2 million, leading fiscal 2017 by $77.1 million or 19.3 percent. Converse, Sublette, and Campbell counties outpaced the rest of the state in dollars collected. Collections for Converse and Sublette counties grew the fastest among all 23 counties compared to a year ago.

Note: Value in parentheses represents share of total collections.

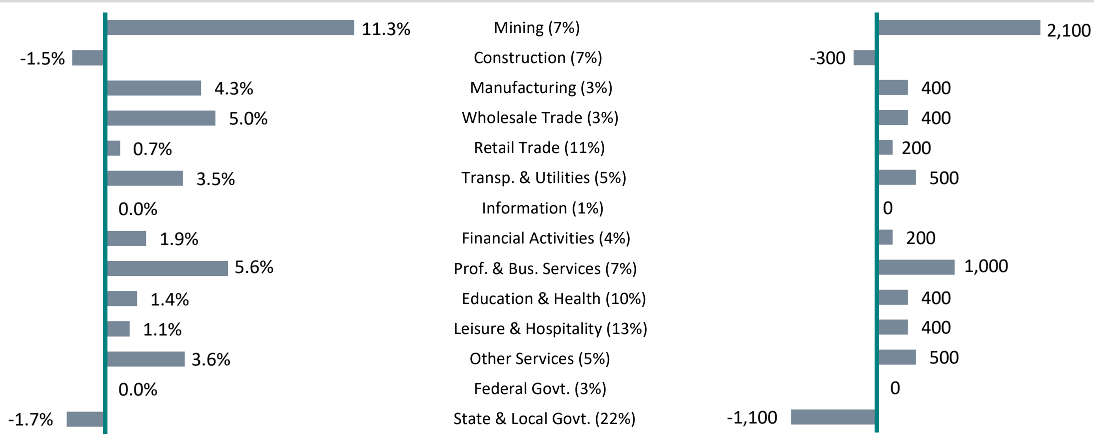
## State & local shares of 4% sales and use tax collections.[7] [ Growth by Industry Sector: cumulative change, fiscal-year-to-date, over the year ]




The mining sector (+$33.8 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.

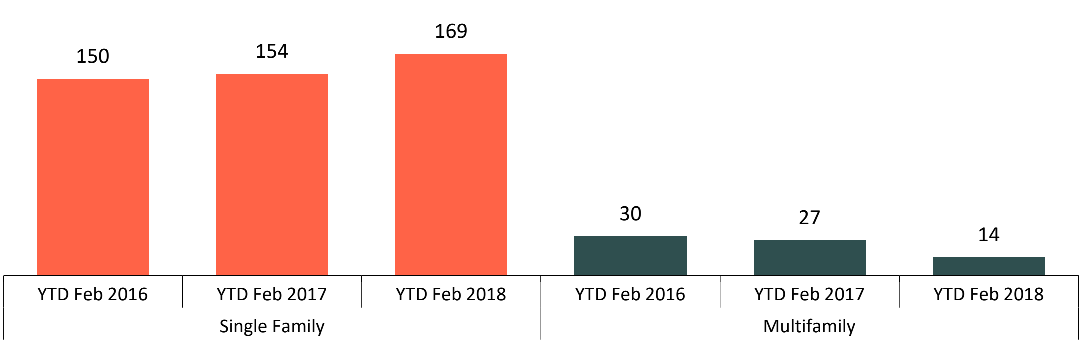
## Nonfarm wage and salary employment.[8] [ Growth by Industry Sector: Year-over-year by percent and jobs; seasonally adjusted ]




Overall, Wyoming had 4,700 more jobs in February compared to a year ago, an increase of 1.7 percent. Industries associated with goods production added 2,200 jobs, while service-providing jobs declined by 2,500, both in comparison to a year ago. The private sector increased by 5,800 jobs while government jobs decreased by 1,100 from a year ago.

Note: Value in parentheses represents share of total jobs.

## Residential building permits.[10] [ Comparisons: Single family and multifamily units ]




The number of single family housing units permitted through the end of February 2018 were running ahead of the 2017 pace by 9.7 percent or 15 units. The number of multifamily units declined by 48.1 percent or 13 units during the same period compared to 2017.