



STATE OF ENERGY REPORT

*An in-depth industry analysis by
the Texas Independent Producers & Royalty Owners Association*



About
TIPRO

The Texas Independent Producers & Royalty Owners Association (TIPRO) is a trade association representing the interests of nearly 3,000 independent oil and natural gas producers and royalty owners throughout Texas. As one of the nation's largest statewide associations representing both independent producers and royalty owners, members include small businesses, the largest, publicly-traded independent producers, and mineral owners, estates, and trusts.



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TIPRO's State of Energy Report

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TIPRO's State of Energy Report

EXECUTIVE SUMMARY

The Texas Independent Producers and Royalty Owners Association (TIPRO) is pleased to publish the next edition of its “State of Energy Report,” which explores the economic impact of the nation’s oil and gas industry from the standpoint of employment, wages, payroll, establishments and production at the state and national level. The report provides an overview of the nation’s leading ten states by oil and gas employment, with more detailed data for all oil and gas producing states in the appendices. This TIPRO report and its contents are intended to further quantify the economic impact of domestic oil and natural gas production with an emphasis on the great state of Texas, the nation’s leading producer of oil and natural gas.

TIPRO’s “State of Energy Report” not only provides an unbiased look at the national oil and gas industry, it also illustrates the continued leadership of Texas in all economic factors in comparison to other oil and gas producing states. As the industry continues to recover from several years of low commodity prices, national oil and gas industry employment totaled 832,777 jobs in 2017, providing an average annual wage of \$109,498. This also represented the first year the U.S. oil and gas industry added jobs since 2014.

In Texas, the oil and gas industry continues to provide unparalleled economic support, accounting for 39 percent of all oil and gas employment in the nation. The oil and gas industry supported a total of 325,439 direct jobs in Texas in 2017, up from the previous year, showing a clear turnaround in the industry following years of significant jobs losses. This is compared to an increase of 2,876 jobs in Oklahoma for a total of 61,562 jobs, and increase of 2,799 in North Dakota for a total of 18,781 jobs in the same timeframe. These jobs also pay extremely well, with an average annual wage of \$128,635 in Texas, the highest in the country and 132 percent higher than average private sector wages in the state.

Despite challenging market conditions in recent years, with continued innovation, operational efficiencies and improving market conditions, domestic production of oil and natural gas increased to historic levels in November of 2017 reaching 10.066 million barrels of oil per day, officially exceeding a previous record for daily production set in 1970. Independent oil and gas producers, who collectively drill up to 95 percent of the oil and natural gas wells in America, continue to lead the industry in this growth and the many related economic contributions for the country.

Total oil production for Texas was 1.27 billion barrels of oil in 2017, an increase of 105 million barrels compared to 2016. Total natural gas production in Texas was 8 trillion cubic feet in 2017, compared to 8.2 trillion cubic feet in 2016. The increase in oil production compared to employment data yet again illustrates that the Texas oil and gas industry achieved many efficiencies during the downturn, allowing operators to manage increasing levels of exploration and production activities even with fewer personnel. Additional details and statistics for the top 10 oil and gas producing states can be found in the appendices of this report.

Increasing levels of domestic production has helped the United States cut oil imports by 773 million barrels over the past decade, while increasing exports to allies abroad, further enhancing national security and America’s geopolitical strength. The end of a ban on U.S. crude oil exports in 2015, coupled with the growth in drilling of prolific shale formations, including the Permian Basin, Delaware Basin and Eagle Ford Shale, has literally and figuratively changed the flow of petroleum around the world. Net imports of petroleum products to the United States declined from approximately 2 million barrels per day (b/d) in 2008 to -2.88 million b/d in 2017, as the U.S. changed from net importer to net exporter in less than a decade.

TIPRO's State of Energy Report

EXECUTIVE SUMMARY

The Texas oil and gas industry has remained a cornerstone of the economy providing high-paying career opportunities, as well as significant taxes and royalty payments made to state, local and federal government entities. Collectively, Texas oil and gas companies paid \$11 billion in state and local taxes and royalty payments in fiscal year 2017, an increase of \$1.6 billion compared to 2016. These funds have continued to support all aspects of the state economy, including infrastructure investment, water conservation programs, schools and education, and first responders, to name a few. Additionally, Texas is home to approximately 2.5 million mineral owners, of the 12.5 million mineral owners in the U.S., with oil and gas royalties generating income for nearly 600,000 families in the state.



As market conditions improved in 2017, the U.S. oil and natural gas industry also welcomed a reprieve from overbearing policy measures targeting domestic producers advanced under the previous administration. The rollback of onerous or unnecessary policies, a return to utilizing sound science at the Environmental Protection Agency (EPA) for developing regulations, meaningful tax reform and a commitment from elected officials to achieving U.S. energy dominance, resulted in further investment, job growth and growing optimism. Nonetheless, several challenges remain, including uncertainty surrounding tariffs on imported steel and aluminum, current negotiations on the North American Trade Agreement (NAFTA), overbearing federal methane regulations, and environmental activist groups that oppose reliable energy.

Increasing tensions over international trade issues has caused concern among domestic energy producers. TIPRO expressed opposition to President Trump's announcement regarding a 25 percent tariff on steel imports and a 10 percent tariff on imported aluminum. The tariffs would significantly increase costs for domestic oil and natural gas producers that rely heavily on steel and aluminum products in their operations, including drilling equipment and pipelines. As the nation's leading producer of oil and natural gas, and most prominent benefactor of President Trump's Energy Dominance Agenda, the state of Texas would bear an inordinate burden if this measure were adopted, further hindering the recovery and many positive economic contributions of the industry.

EXECUTIVE SUMMARY

Similarly, TIPRO expressed concern over actions by the Trump Administration to terminate the NAFTA agreement and impede progress being made from improving market conditions and a roll-back of overbearing regulations. The negotiation talks continue at a time when domestic crude oil production has hit 10 million barrels of oil per day for the first time in nearly 50 years and many significant market and technological changes that have occurred in North American energy production since NAFTA's inception in 1994.

NAFTA has been a success story for energy integration in Mexico, the United States and Canada that has led to the creation of many new opportunities to improve trade relations across North America. As an example, Mexico is America's largest natural gas customer, accounting for more than 60 percent of U.S. natural gas exports with an increase in projected demand for many years to come. TIPRO supports a modernized NAFTA that builds on the success of the program, including the preservation of investor-state dispute settlements (ISDS), a key provision that serves to protect multinational companies that invest abroad. Increasing trade in North America supports increased production of domestic oil and natural gas and expands both economic and geopolitical benefits for our country.

With the rollback of many unnecessary federal regulations last year, TIPRO continues with efforts to address overbearing methane regulations promulgated during the previous administration. TIPRO maintains that significant elements of the EPA's methane regulatory scheme are excessive, uneconomic, and could in fact be detrimental to the long-term production of oil and natural gas in the United States, without corresponding environmental benefits. TIPRO's legal challenge to the methane regulations is currently being held in abeyance, but the association and a larger coalition has been working with EPA to revise Subpart OOOOa and to address another legal challenge that was recently initiated by 13 states, the District of Columbia and the City of Chicago. These entities are trying to force regulation on existing oil and natural gas sector sources, something TIPRO successfully opposed previously by advocating for the removal of EPA's Information Collection Request (ICR) for existing sources.

TIPRO remains focused on advancing a targeted federal policy agenda, while protecting and strengthening an already strong regulatory and business environment in Texas. Key priorities in Texas for the industry for the approaching legislative session include identifying programs to better allocate oil and gas tax revenue for county road repair and maintenance in energy producing areas, workforce development, water use, educating policy makers on the benefits of oil and gas development, and maintaining a balanced, science-based approach to developing regulations at the state level. With millions of dollars from agenda-driven organizations flowing into states across the country to promote anti-oil and natural gas campaigns and to influence elections, TIPRO has also increased its efforts to track and respond to activist threats in Texas.

As the leading statewide association in Texas representing independent oil and gas producers and royalty owners, TIPRO has remained a relentless advocate for the Texas oil and gas industry since 1946. TIPRO proudly serves as the leading voice for the Texas oil and gas industry, advocating for members at both the state and federal level to preserve the ability for independents to explore for and produce oil and natural gas. TIPRO remains committed to working with government and industry leaders to provide accurate and truthful information about oil and gas development, the extensive precautions taken to protect the health and safety of our communities, and the unmatched economic contributions of the energy sector.

KEY NATIONAL FINDINGS

- The U.S. oil and gas industry employed 832,777 in 2017, an increase of 3,060 jobs from 2016.
- Employment in this industry reached a high of 1,054,596 jobs in 2014, with a jobs recovery officially beginning in 2017.
- The oil and gas industry paid a national average wage of \$109,498 in 2017, 103 percent more than the national average private sector wage of \$54,003. U.S. oil and gas wages were down by 4 percent in 2017, from \$113,841 in 2016, adjusted for inflation.
- The oil and gas industry pays more on average than construction, manufacturing, wholesale trade, information, professional services, health care, financial services and educational services.
- Payroll in the oil and gas industry was \$91 billion in 2017, down by 3 percent compared to 2016, adjusted for inflation.
- The number of businesses in oil and gas industry was 40,157 in 2017, down from 41,683 in 2016, representing the third consecutive annual decline in industry establishments.
- The largest sector by employment in the oil and gas industry was support activities with 224,647 workers in 2017, an increase of 22,346 sector jobs compared to 2016.
- The petroleum and natural gas extraction industry was second largest with 143,876 workers in 2017, followed by natural gas distribution with 111,618 employees.
- The workers in petroleum and natural gas extraction earned the highest annualized average wage of all the oil and gas industry sectors at \$161,947 in 2017. This was followed by the 71,025 people in the petroleum refineries sector who earned on average \$132,524 and by the 2,950 people in the pipeline transportation industry, who earned \$129,543.
- With improving economic conditions and increasing levels of production in 2017, several industry segments experienced positive gains in employment. The drilling oil and gas wells sector grew at the fastest rate on a percentage basis, adding 11,531 jobs, a 25 percent increase compared to 2016.
- Oil and gas support activities was the second fastest growing sector on a percentage basis, adding 22,346 jobs or 11 percent. This sector was followed by petroleum refineries, which added 1,871 jobs, for a 3 percent increase.



KEY FINDINGS FOR STATES

- Texas led the nation in oil and gas jobs with 325,439 people employed in this industry, altogether representing 39 percent of all oil and gas jobs nationwide in 2017. This also represented 3 percent of total private sector employment in the state of Texas itself.
- When examining employment in the various industry sectors that comprise the oil and gas industry, Texas was the leading state by employment in every single sector. In fact, oil and gas employment is so concentrated in Texas that of the nine industry sectors used in this report to define oil and gas, five sectors had 40 percent or higher of the jobs located in Texas. This includes 68 percent of petrochemical manufacturing jobs, 67 percent of oil and gas machinery and equipment jobs, 52 percent of oil and gas extraction and drilling oil and gas wells jobs and 46 percent of support activities employment.



- Oil and gas jobs in Texas paid on average 132 percent more than the average private sector job in the state, \$128,635 compared to \$55,380 in 2017. Texas was followed by Alaska at \$127,827, then California at \$121,253, as the leading states for oil and gas wages.
- Texas also led the nation in oil and gas payroll at \$41.86 billion. Approximately 7.5 percent of total payroll in Texas comes from the oil and gas industry.
- Texas held the highest number of oil and gas businesses in the nation last year with 11,681, representing 29 percent of all oil and gas businesses nationwide. This was nearly three times the number of oil and gas businesses than second ranked Oklahoma with 3,974.
- Oklahoma experienced the largest increase in industry jobs (2,876) in 2017, followed by North Dakota (2,799).
- Louisiana experienced the largest numeric decline in jobs last year (-3,181), followed by Missouri (-1,838).



Key statistics for the U.S. OIL & GAS INDUSTRY

UNITED STATES INDUSTRY FAST FACTS

- 224,647 people worked in oil and gas support services in 2017
- 143,876 people worked in Oil and Gas Extraction, earning an average wage over \$161,947 in 2017
- 1 percent of all jobs in the United States are in the oil and gas industry
- 3,060 oil and gas jobs were added in 2017
- Annual wages in the oil and gas industry, averaging \$109,498, were more than double the average private sector wage

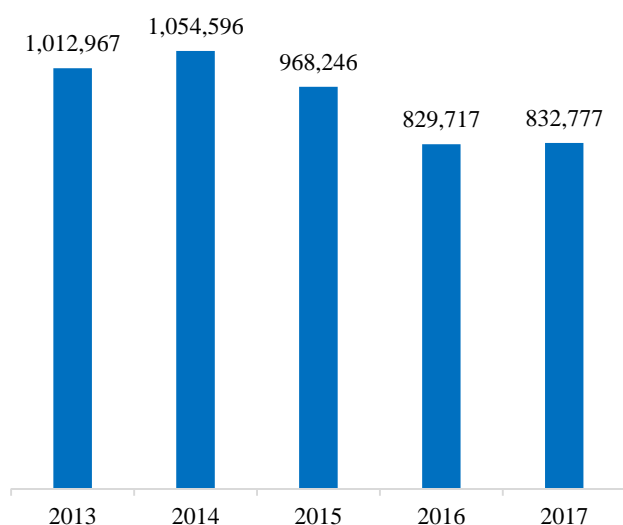
ECONOMIC BENEFITS

| | |
|--------------|-----------|
| Total Jobs | 832,777 |
| Average Wage | \$109,498 |
| Businesses | 40,157 |
| Payroll | \$91 B |

**In 2017, oil & gas
employment grew
for the first time
since 2014**

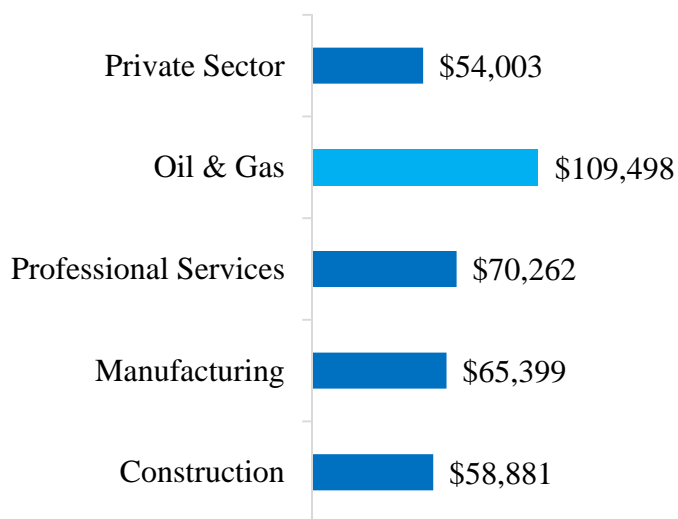
EMPLOYMENT

2013-2017



WAGE COMPARISON

Annual average in 2017





Key statistics for the

TEXAS OIL & GAS INDUSTRY

TEXAS INDUSTRY FAST FACTS

- 39 percent of all oil and gas jobs nationwide are located in Texas
- 3.2 percent of all jobs in Texas are in the oil and gas industry
- 7.5 percent of payroll in Texas is from oil and gas
- 132 percent more in average annual wages in the oil and gas industry than the average private sector wages in Texas
- 1st ranked state by oil and gas employment
- 1st ranked state by oil and gas businesses
- 1st ranked state by oil and gas wages
- 1st ranked state by payroll

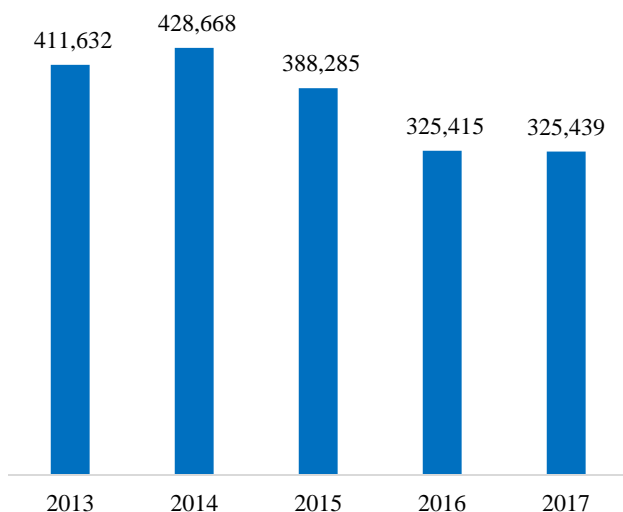
ECONOMIC BENEFITS

| | |
|--------------|-----------|
| Total Jobs | 325,439 |
| Average Wage | \$128,635 |
| Businesses | 11,681 |
| Payroll | \$41.86 B |

Texas leads the nation in oil & gas jobs, wages and businesses

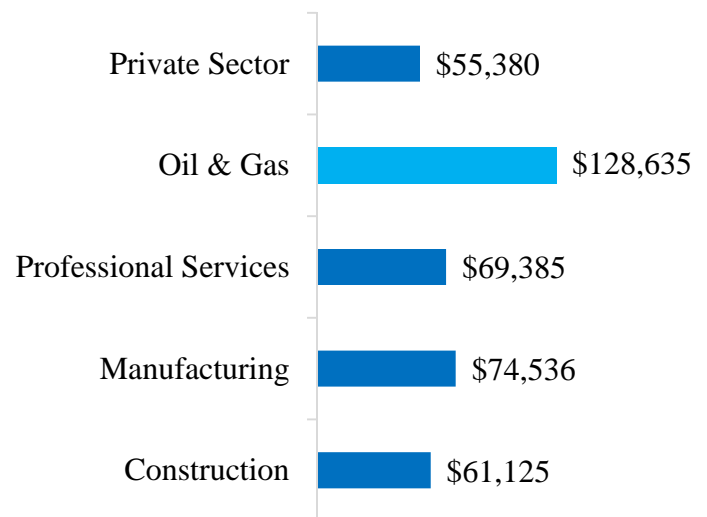
EMPLOYMENT

2013-2017



WAGE COMPARISON

Annual average in 2017





Key statistics for the

OKLAHOMA OIL & GAS INDUSTRY

OKLAHOMA INDUSTRY FAST FACTS

- 7.4 percent of all oil and gas jobs nationwide are located in Oklahoma
- 5 percent of all jobs in Oklahoma are in the oil and gas industry
- 10.7 percent of payroll in Oklahoma is from the oil and gas industry
- 120 percent more is paid in annual wages in the oil and gas industry on average than in private sector wages on average in Oklahoma
- 2nd ranked state by oil and gas employment
- 2nd ranked state by oil and gas businesses
- 11th ranked state by oil and gas wages
- 2nd ranked state by payroll

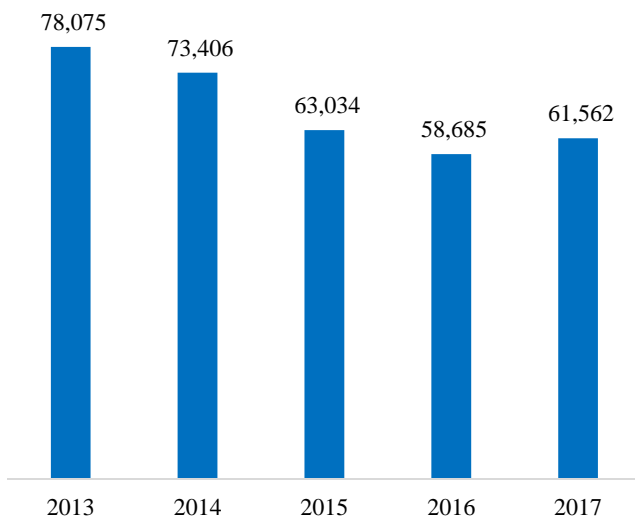
ECONOMIC BENEFITS

| | |
|--------------|----------|
| Total Jobs | 61,562 |
| Average Wage | \$97,620 |
| Businesses | 3,974 |
| Payroll | \$6.01 B |

**Oklahoma ranks 2nd
in the nation in
oil & gas jobs,
businesses and payroll**

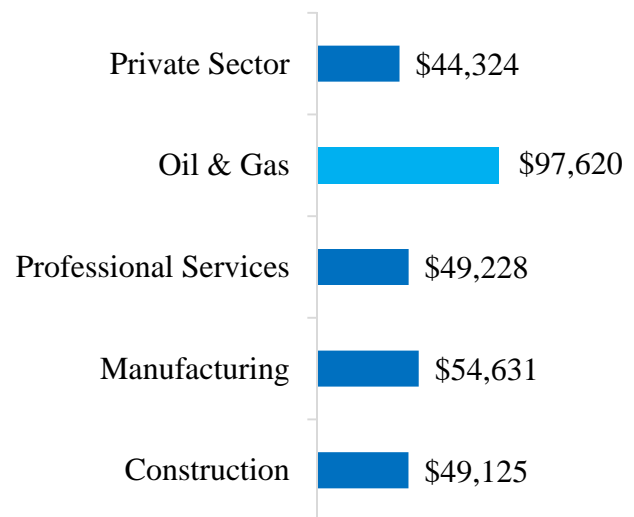
EMPLOYMENT

2013-2017



WAGE COMPARISON

Annual average in 2017





Key statistics for the

LOUISIANA OIL & GAS INDUSTRY

LOUISIANA INDUSTRY FAST FACTS

- 6 percent of oil and gas jobs nationwide are located in Louisiana
- 3.2 percent of all private sector jobs in Louisiana are in oil and gas
- 7.1 percent of payroll in Louisiana is from the oil and gas industry
- 122 percent more is paid in annual wages in the oil and gas industry on average than in private sector wages on average in Louisiana
- 3rd ranked state by oil and gas employment
- 3rd ranked state by oil and gas businesses
- 9th ranked state by oil and gas wages
- 3rd ranked state by payroll

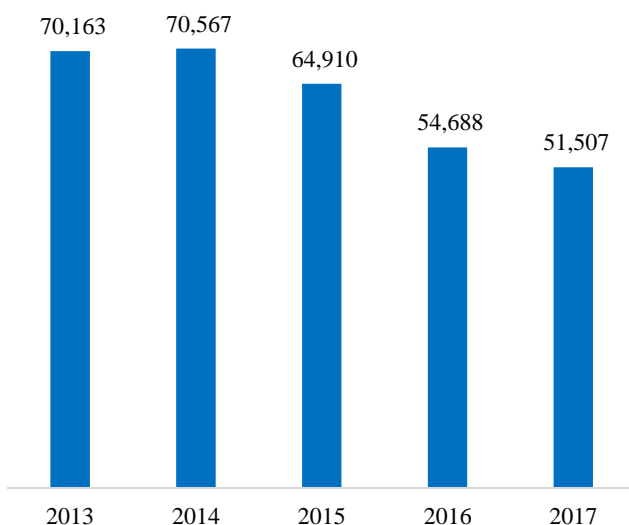
ECONOMIC BENEFITS

| | |
|--------------|-----------|
| Total Jobs | 51,507 |
| Average Wage | \$101,579 |
| Businesses | 2,362 |
| Payroll | \$5.23 B |

**Louisiana ranks 3rd
in the nation in
oil & gas jobs,
businesses and payroll**

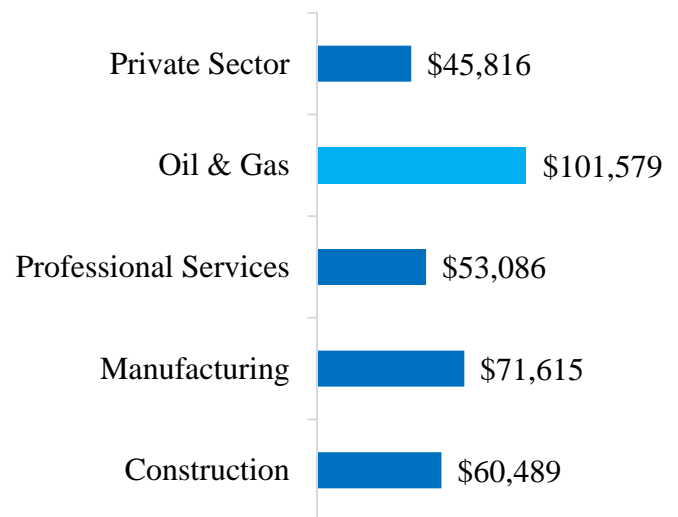
EMPLOYMENT

2013-2017



WAGE COMPARISON

Annual average in 2017





Key statistics for the

CALIFORNIA OIL & GAS INDUSTRY

CALIFORNIA INDUSTRY FAST FACTS

- 4.3 percent of all oil and gas jobs nationwide are located in California
- 91 percent more is paid in average annual wages in the oil and gas industry than average private sector wages in California
- California lost 1,398 oil and gas jobs in 2017
- 4th ranked state by oil and gas employment
- 3rd ranked state by oil and gas wages
- 5th ranked state by oil and gas businesses
- 4th ranked state by payroll

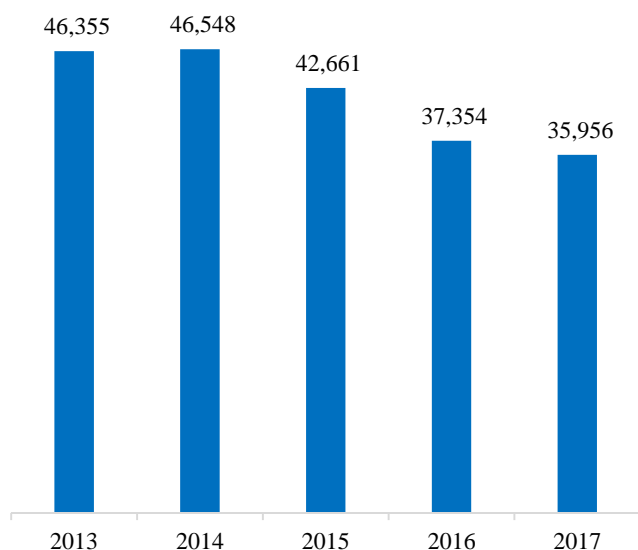
ECONOMIC BENEFITS

| | |
|--------------|-----------|
| Total Jobs | 35,956 |
| Average Wage | \$121,253 |
| Businesses | 1,519 |
| Payroll | \$4.36 B |

California ranks 4th in the nation in oil & gas jobs

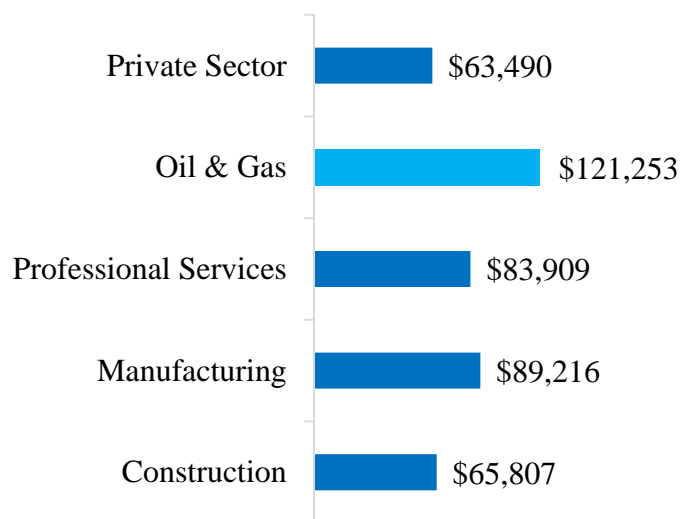
EMPLOYMENT

2013-2017



WAGE COMPARISON

Annual average in 2017





Key statistics for the

PENNSYLVANIA OIL & GAS INDUSTRY

PENNSYLVANIA INDUSTRY FAST FACTS

- 3.4 percent of all oil and gas jobs nationwide are located in Pennsylvania
- 1 percent of payroll in Pennsylvania is from the oil and gas industry
- 75 percent more is paid in average annual wages in the oil and gas industry than in private sector wages on average in Pennsylvania
- 5th ranked state by oil and gas employment
- 6th ranked state by oil and gas businesses
- 16th ranked state by oil and gas wages

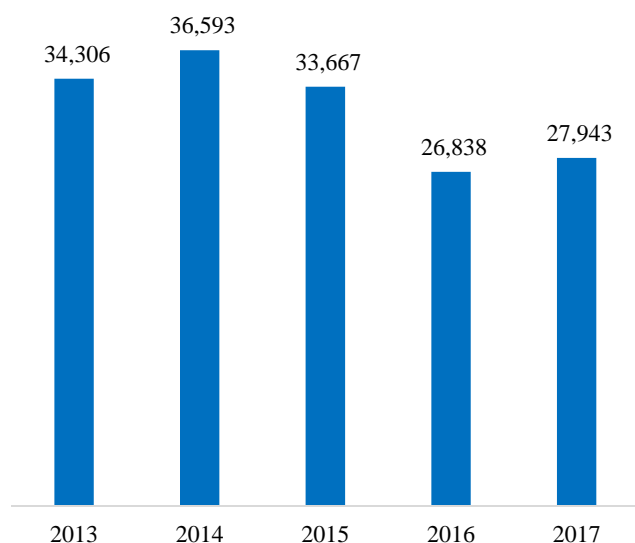
ECONOMIC BENEFITS

| | |
|--------------|----------|
| Total Jobs | 27,943 |
| Average Wage | \$92,069 |
| Businesses | 1,359 |
| Payroll | \$2.57 B |

Pennsylvania ranks 5th in the nation in oil & gas jobs

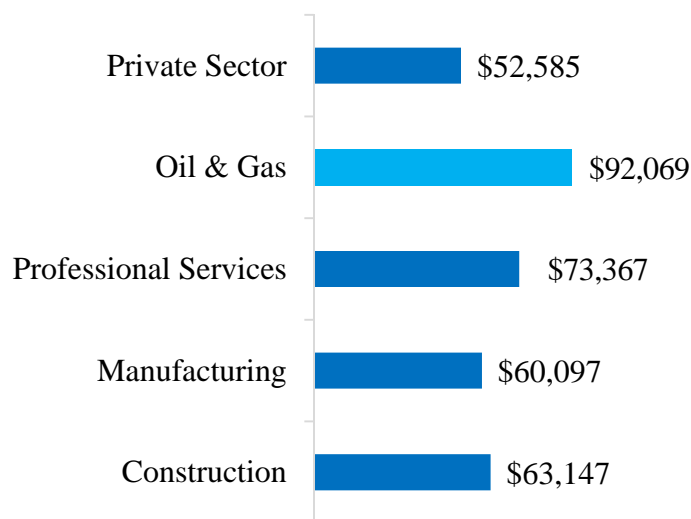
EMPLOYMENT

2013-2017



WAGE COMPARISON

Annual average in 2017





Key statistics for the

COLORADO OIL & GAS INDUSTRY

COLORADO INDUSTRY FAST FACTS

- 3 percent of all oil and gas jobs nationwide are located in Colorado
- 2.4 percent of payroll in Colorado is from the oil and gas industry
- 112 percent more is paid in average annual wages in the oil and gas industry than average private sector wages in Colorado
- 6th ranked state by oil and gas employment
- 4th ranked state by oil and gas businesses
- 4th ranked state by oil and gas wages
- 5th ranked state by oil and gas payroll

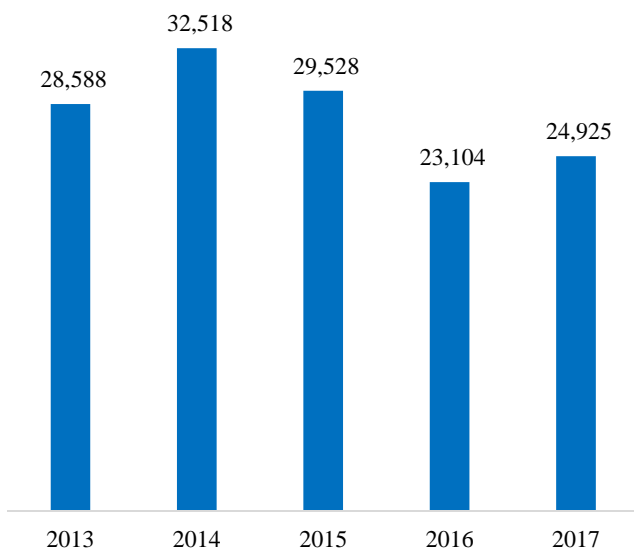
ECONOMIC BENEFITS

| | |
|--------------|-----------|
| Total Jobs | 24,925 |
| Average Wage | \$118,812 |
| Businesses | 1,647 |
| Payroll | \$2.96 B |

**Colorado ranks 6th
in the nation in
oil & gas jobs**

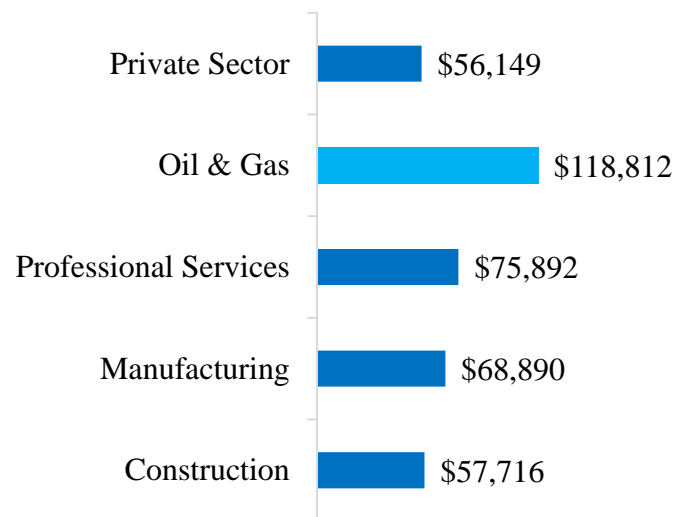
EMPLOYMENT

2013-2017



WAGE COMPARISON

Annual average in 2017





Key statistics for the

OHIO OIL & GAS INDUSTRY

OHIO INDUSTRY FAST FACTS

- 2.3 percent of all oil and gas jobs nationwide are located in Ohio
- 80 percent more is paid in average annual wages in the oil and gas industry than average private sector wages in Ohio
- 7th ranked state by oil and gas employment
- 9th ranked state by oil and gas businesses
- 19th ranked state by oil and gas wages
- 8th ranked state by oil and gas payroll

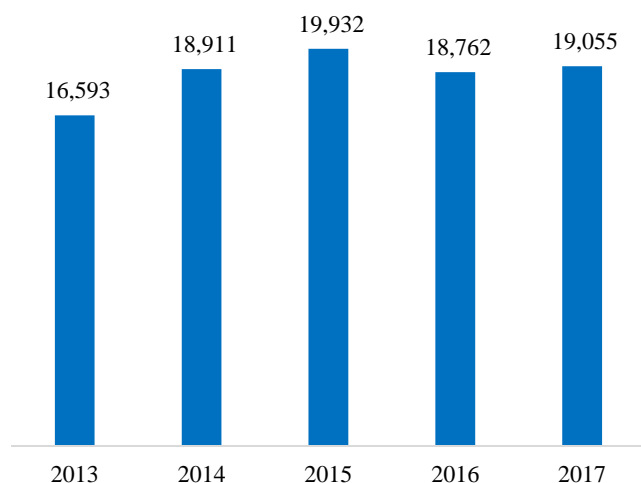
ECONOMIC BENEFITS

| | |
|--------------|----------|
| Total Jobs | 19,055 |
| Average Wage | \$85,702 |
| Businesses | 1,147 |
| Payroll | \$1.63 B |

**Ohio ranks 7th
in the nation in
oil & gas jobs**

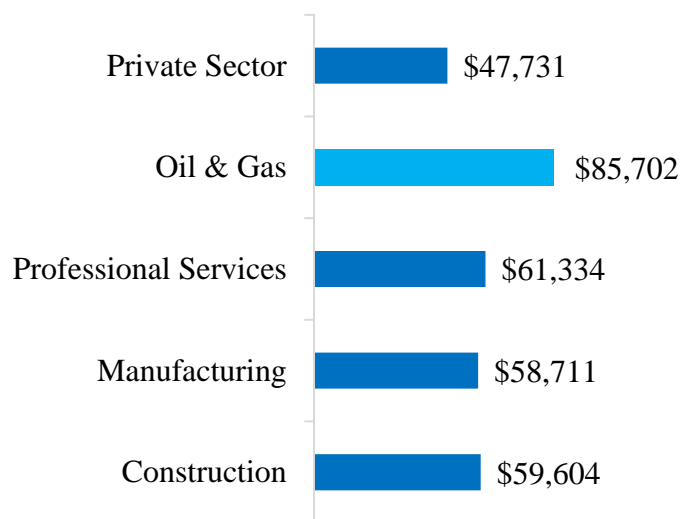
EMPLOYMENT

2013-2017



WAGE COMPARISON

Annual average in 2017





Key statistics for the

NORTH DAKOTA OIL & GAS INDUSTRY

NORTH DAKOTA INDUSTRY FAST FACTS

- 2.3 percent of all oil and gas jobs nationwide are located in North Dakota
- 5.5 percent of all jobs in North Dakota are in the oil and gas industry
- 10.7 percent of payroll in North Dakota is from the oil and gas industry
- 95 percent more is paid in average annual wages in the oil and gas industry than average private sector wages in North Dakota
- 8th ranked state by oil and gas employment
- 11th ranked state by oil and gas businesses
- 12th ranked state by oil and gas wages
- 7th ranked state by oil and gas payroll

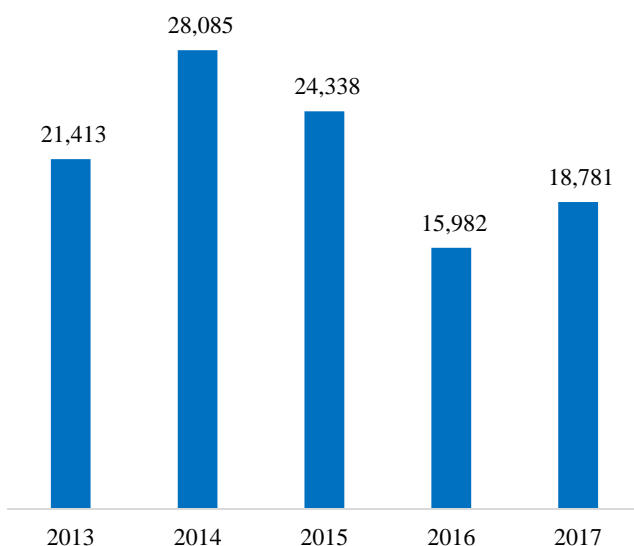
ECONOMIC BENEFITS

| | |
|--------------|----------|
| Total Jobs | 18,781 |
| Average Wage | \$97,604 |
| Businesses | 1,009 |
| Payroll | \$1.83 B |

**North Dakota
ranks 8th
in the nation in
oil & gas jobs**

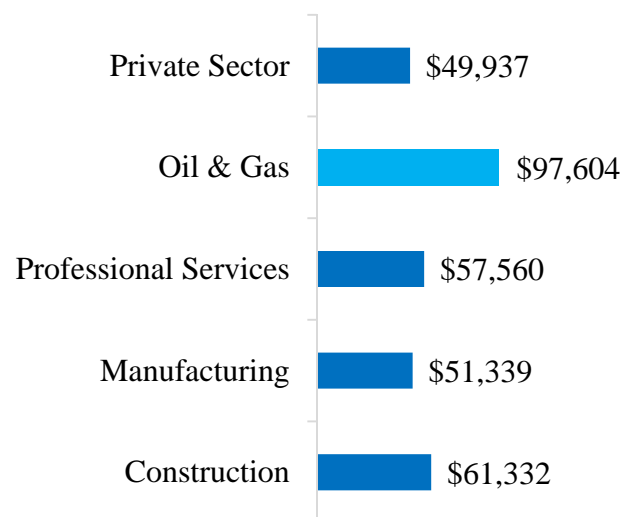
EMPLOYMENT

2013-2017



WAGE COMPARISON

Annual average in 2017





Key statistics for the

NEW MEXICO OIL & GAS INDUSTRY

NEW MEXICO INDUSTRY FAST FACTS

- 2.3 percent of all oil and gas jobs nationwide are located in New Mexico
- 5.4 percent of payroll in New Mexico is from the oil and gas industry
- 81 percent more is paid in average annual wages in the oil and gas industry than average private sector wages in New Mexico
- 9th ranked state by oil and gas employment
- 8th ranked state by oil and gas businesses
- 33rd ranked state by oil and gas wages
- 10th ranked state by oil and gas payroll

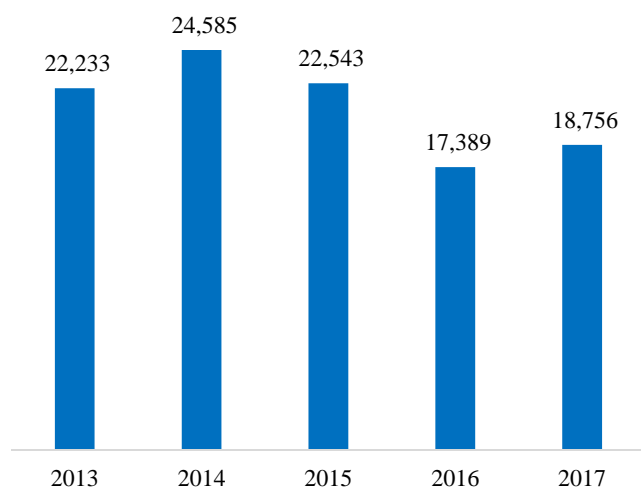
ECONOMIC BENEFITS

| | |
|--------------|----------|
| Total Jobs | 18,756 |
| Average Wage | \$74,674 |
| Businesses | 1,220 |
| Payroll | \$1.4 B |

**New Mexico
ranks 9th
in the nation in
oil & gas jobs**

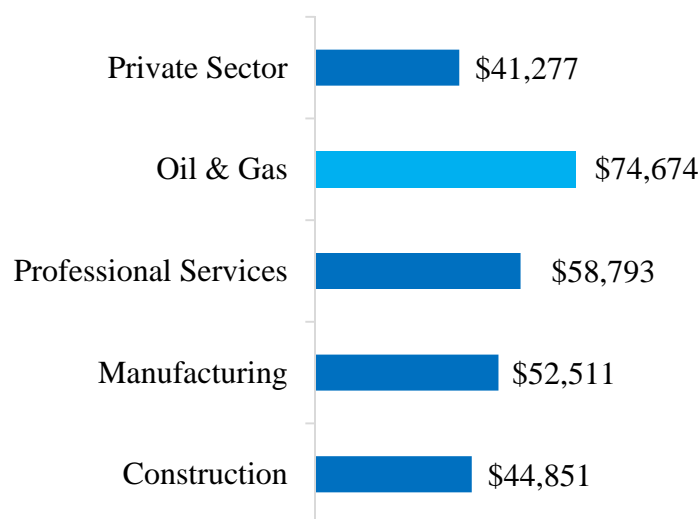
EMPLOYMENT

2013-2017



WAGE COMPARISON

Annual average in 2017





Key statistics for the

ILLINOIS OIL & GAS INDUSTRY

ILLINOIS INDUSTRY FAST FACTS

- 1.7 percent of all oil and gas jobs nationwide are located in Illinois
- 71 percent more is paid in average annual wages in the oil and gas industry than average private sector wages in Illinois
- 10th ranked state by oil and gas employment
- 12th ranked state by oil and gas businesses
- 13th ranked state by oil and gas wages
- 11th ranked state by oil and gas payroll

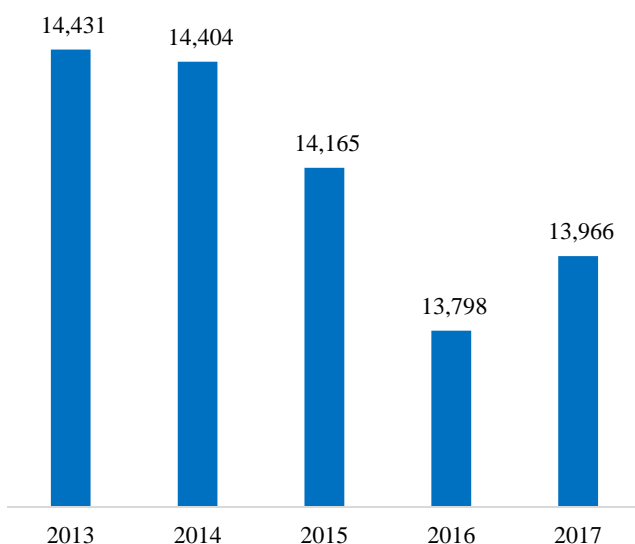
ECONOMIC BENEFITS

| | |
|--------------|----------|
| Total Jobs | 13,966 |
| Average Wage | \$97,502 |
| Businesses | 780 |
| Payroll | \$1.36 B |

**Illinois ranks 10th in
the nation in oil &
gas jobs**

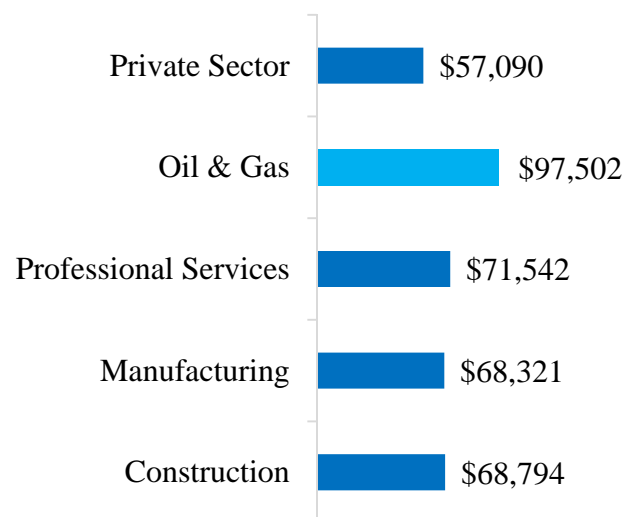
EMPLOYMENT

2013-2017



WAGE COMPARISON

Annual average in 2017



2016-2017

TOP 10 OIL PRODUCING STATES

2016 TOP OIL PRODUCING STATES

| State | Oil Production (BBL) |
|--------------|----------------------|
| Texas | 1,165,896,941 |
| North Dakota | 377,794,444 |
| California | 186,124,466 |
| Alaska | 179,169,164 |
| Oklahoma | 156,699,681 |
| New Mexico | 146,944,315 |
| Colorado | 115,601,730 |
| Wyoming | 72,489,990 |
| Louisiana | 56,172,028 |
| Kansas | 37,950,815 |

2017 TOP OIL PRODUCING STATES

| State | Oil Production (BBL) |
|--------------|----------------------|
| Texas | 1,270,750,843 |
| North Dakota | 384,415,176 |
| Alaska | 180,428,112 |
| New Mexico | 170,777,650 |
| California | 164,298,849 |
| Oklahoma | 135,083,824 |
| Colorado | 126,870,574 |
| Wyoming | 74,739,392 |
| Louisiana | 50,064,365 |
| Utah | 33,680,397 |

*BBL represents barrel of oil



TOP 10 NATURAL GAS PRODUCING STATES

2016 TOP GAS PRODUCING STATES

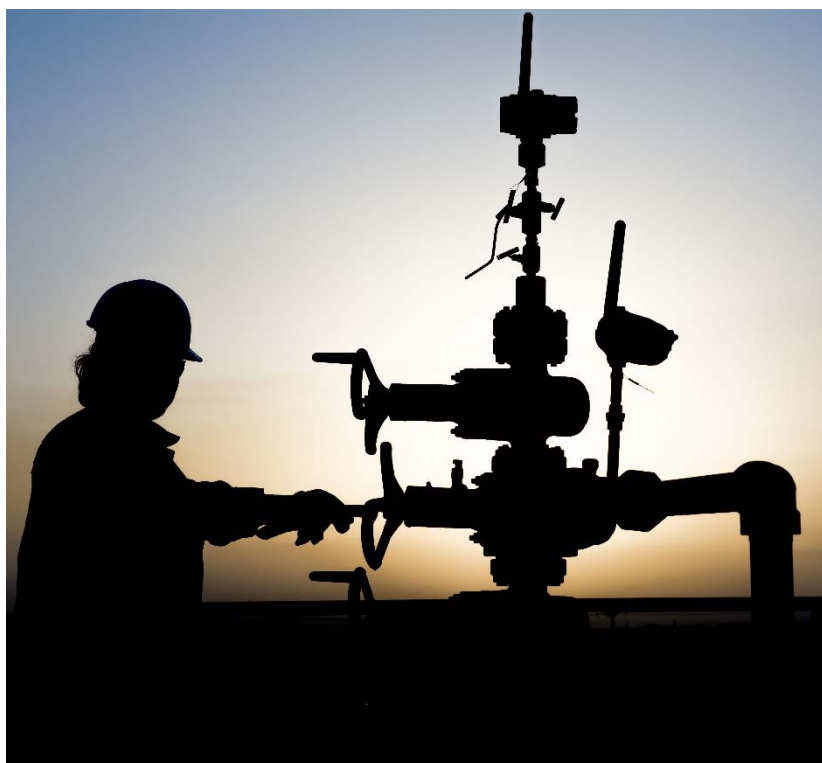
| State | Gas Production (mcf) |
|---------------|----------------------|
| Texas | 8,208,526,897 |
| Pennsylvania | 5,218,773,058 |
| Alaska | 3,247,831,832 |
| Oklahoma | 2,245,848,254 |
| Colorado | 2,126,847,876 |
| Wyoming | 1,848,336,263 |
| Louisiana | 1,726,635,715 |
| Ohio | 1,438,573,893 |
| West Virginia | 1,384,459,047 |
| New Mexico | 1,378,744,646 |

2017 TOP GAS PRODUCING STATES

| State | Gas Production (mcf) |
|--------------|----------------------|
| Texas | 8,015,456,570 |
| Pennsylvania | 5,459,329,171 |
| Alaska | 3,268,520,281 |
| Colorado | 2,094,015,141 |
| Louisiana | 2,009,778,849 |
| Oklahoma | 1,845,389,550 |
| Wyoming | 1,798,639,299 |
| New Mexico | 1,345,308,991 |
| Ohio | 1,224,736,399 |
| Arkansas | 680,455,832 |

*MCF denotes a thousand cubic feet of natural gas

According to the U.S. Energy Information Administration, as a result of strong domestic production levels, the United States became a net natural gas exporter in 2017 for the first time in nearly 60 years.



2013-2017

U.S. OIL & GAS EMPLOYMENT

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>Percent Change '16-'17</u> | <u>Numeric Change '16-'17</u> |
|--|------------------|------------------|----------------|----------------|----------------|---------------------------------------|---------------------------------------|
| Oil & Gas Extraction | 196,732 | 196,704 | 192,537 | 174,948 | 143,876 | -18% | -31,072 |
| Drilling Oil & Gas Wells | 93,261 | 98,208 | 69,944 | 45,344 | 56,875 | 25% | 11,531 |
| Support Activities, Oil and Gas Operations | 296,891 | 326,353 | 278,444 | 202,301 | 224,647 | 11% | 22,346 |
| Natural Gas Distribution | 109,915 | 110,994 | 112,326 | 112,214 | 111,618 | -1% | -596 |
| Petroleum Refineries | 71,784 | 69,261 | 68,374 | 69,154 | 71,025 | 3% | 1,871 |
| Petrochemical Manufacturing | 24,116 | 24,389 | 25,386 | 26,391 | 25,841 | -2% | -550 |
| Oil and Gas Field Machinery and Equipment | 81,246 | 83,174 | 74,286 | 55,315 | 53,769 | -3% | -1,546 |
| Petroleum Merchant Wholesalers | 95,283 | 98,640 | 98,304 | 95,098 | 95,633 | 1% | 535 |
| Pipeline Transportation | 43,740 | 46,873 | 48,647 | 48,953 | 49,493 | 1% | 540 |
| <i>Total</i> | <i>1,012,967</i> | <i>1,054,596</i> | <i>968,246</i> | <i>829,717</i> | <i>832,777</i> | <i>0%</i> | <i>3,060</i> |

2013-2017

U.S. OIL & GAS ESTABLISHMENTS

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>Percent Change '16-'17</u> | <u>Numeric Change '16-'17</u> |
|--|---------------|---------------|---------------|---------------|---------------|---------------------------------------|---------------------------------------|
| Oil & Gas Extraction | 9,772 | 9,820 | 9,570 | 9,058 | 7,415 | -18% | -1,643 |
| Drilling Oil & Gas Wells | 2,573 | 2,580 | 2,563 | 2,396 | 2,485 | 4% | 89 |
| Support Activities, Oil and Gas Operations | 13,997 | 15,011 | 15,403 | 14,648 | 14,660 | 0% | 12 |
| Natural Gas Distribution | 2,955 | 2,912 | 2,935 | 2,927 | 2,911 | -1% | -16 |
| Petroleum Refineries | 763 | 710 | 683 | 634 | 630 | -1% | -4 |
| Petrochemical Manufacturing | 161 | 156 | 168 | 187 | 191 | 2% | 5 |
| Oil and Gas Field Machinery and Equipment | 1,322 | 1,339 | 1,359 | 1,343 | 1,333 | -1% | -11 |
| Petroleum Merchant Wholesalers | 7,826 | 7,832 | 7,707 | 7,629 | 7,583 | -1% | -46 |
| Pipeline Transportation | 2,696 | 2,738 | 2,777 | 2,863 | 2,950 | 3% | 87 |
| <i>Total</i> | <i>42,064</i> | <i>43,098</i> | <i>43,166</i> | <i>41,683</i> | <i>40,157</i> | <i>-4%</i> | <i>-1,526</i> |

Please note: Data was rounded for ease of use. More detailed data was used to reach all numeric and percentage changes.

Using the rounded data on this page could result in different numeric and percentage results.

Figures also were adjusted for inflation to 2017 dollars.

2013-2017

U.S. OIL & GAS WAGES

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>Percent Change '16-'17</u> | <u>Numeric Change '16-'17</u> |
|--|------------------|------------------|------------------|------------------|------------------|---------------------------------------|---------------------------------------|
| Oil & Gas Extraction | \$154,290 | \$161,674 | \$161,934 | \$161,747 | \$161,947 | 0% | \$200 |
| Drilling Oil & Gas Wells | \$94,118 | \$98,601 | \$99,448 | \$98,667 | \$98,275 | 0% | -\$392 |
| Support Activities, Oil and Gas Operations | \$81,714 | \$86,112 | \$83,063 | \$80,449 | \$83,145 | 3% | \$2,696 |
| Natural Gas Distribution | \$96,317 | \$101,779 | \$106,208 | \$105,535 | \$107,613 | 2% | \$2,078 |
| Petroleum Refineries | \$132,452 | \$131,977 | \$139,101 | \$134,804 | \$132,524 | -2% | -\$2,281 |
| Petrochemical Manufacturing | \$111,141 | \$117,404 | \$125,515 | \$120,217 | \$127,257 | 6% | \$7,040 |
| Oil and Gas Field Machinery and Equipment | \$83,662 | \$89,277 | \$90,045 | \$93,067 | \$96,691 | 4% | \$3,624 |
| Petroleum Merchant Wholesalers | \$70,262 | \$73,891 | \$79,127 | \$77,238 | \$76,293 | -1% | -\$945 |
| Pipeline Transportation | \$116,460 | \$117,418 | \$122,186 | \$122,691 | \$129,543 | 6% | \$6,852 |
| <i>Average</i> | <i>\$108,811</i> | <i>\$111,050</i> | <i>\$113,540</i> | <i>\$113,841</i> | <i>\$109,498</i> | <i>-4%</i> | <i>-\$4,343</i> |

2013-2017

U.S. OIL & GAS PAYROLL (IN MILLIONS)

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>Percent Change '16-'17</u> | <u>Numeric Change '16-'17</u> |
|--|------------------|------------------|------------------|-----------------|-----------------|---------------------------------------|---------------------------------------|
| Oil & Gas Extraction | \$31,939 | \$32,928 | \$32,244 | \$29,516 | \$23,300 | -21% | -\$6,216 |
| Drilling Oil & Gas Wells | \$9,236 | \$10,026 | \$7,194 | \$4,569 | \$5,589 | 22% | \$1,020 |
| Support Activities, Oil and Gas Operations | \$25,527 | \$29,098 | \$23,919 | \$16,622 | \$18,678 | 12% | \$2,057 |
| Natural Gas Distribution | \$11,140 | \$11,697 | \$12,338 | \$12,095 | \$12,012 | -1% | -\$83 |
| Petroleum Refineries | \$10,004 | \$9,465 | \$9,836 | \$9,521 | \$9,413 | -1% | -\$108 |
| Petrochemical Manufacturing | \$2,820 | \$2,965 | \$3,295 | \$3,240 | \$3,289 | 1% | \$48 |
| Oil and Gas Field Machinery and Equipment | \$7,152 | \$7,688 | \$6,918 | \$5,258 | \$5,199 | -1% | -\$59 |
| Petroleum Merchant Wholesalers | \$7,044 | \$7,547 | \$8,044 | \$7,502 | \$7,296 | -3% | -\$205 |
| Pipeline Transportation | \$5,360 | \$5,699 | \$6,147 | \$6,134 | \$6,411 | 5% | \$277 |
| <i>Total</i> | <i>\$110,221</i> | <i>\$117,113</i> | <i>\$109,935</i> | <i>\$94,456</i> | <i>\$91,187</i> | <i>-3%</i> | <i>-\$3,269</i> |

Please note: Data was rounded for ease of use. More detailed data was used to reach all numeric and percentage changes.

Using the rounded data on this page could result in different numeric and percentage results.

Figures also were adjusted for inflation to 2017 dollars.

2013-2017

OIL & GAS EMPLOYMENT BY STATE

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>Percent Change '16-'17</u> | <u>Numeric Change '16-'17</u> |
|----------------------|-------------|-------------|-------------|-------------|-------------|---------------------------------------|---------------------------------------|
| Alabama | 5,335 | 5,215 | 5,640 | 5,417 | 5,293 | -2% | -124 |
| Alaska | 12,636 | 15,498 | 14,990 | 12,303 | 11,054 | -10% | -1,249 |
| Arizona | 1,975 | 1,952 | 1,819 | 1,872 | 1,723 | -8% | -149 |
| Arkansas | 9,310 | 8,688 | 8,394 | 5,655 | 5,075 | -10% | -580 |
| California | 46,355 | 46,548 | 42,661 | 37,354 | 35,956 | -4% | -1,399 |
| Colorado | 28,588 | 32,518 | 29,528 | 23,104 | 24,925 | 8% | 1,821 |
| Connecticut | 1,775 | 1,762 | 1,484 | 1,473 | 1,417 | -4% | -56 |
| Delaware | 282 | 280 | 178 | 229 | 224 | -2% | -5 |
| District of Columbia | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Florida | 5,611 | 5,835 | 5,790 | 5,899 | 6,162 | 4% | 263 |
| Georgia | 4,595 | 4,586 | 4,865 | 5,301 | 5,510 | 4% | 209 |
| Hawaii | 565 | 611 | 620 | 1,063 | 1,143 | 7% | 80 |
| Idaho | 455 | 478 | 543 | 495 | 522 | 5% | 27 |
| Illinois | 14,431 | 14,404 | 14,165 | 13,798 | 13,966 | 1% | 168 |
| Indiana | 5,195 | 5,421 | 5,673 | 5,174 | 5,201 | 1% | 27 |
| Iowa | 2,213 | 2,238 | 2,239 | 2,264 | 2,258 | 0% | -6 |
| Kansas | 14,606 | 14,766 | 12,846 | 10,970 | 10,243 | -7% | -727 |
| Kentucky | 5,871 | 5,220 | 5,000 | 4,698 | 4,503 | -4% | -195 |
| Louisiana | 70,163 | 70,567 | 64,910 | 54,688 | 51,507 | -6% | -3,181 |
| Maine | 642 | 688 | 715 | 692 | 638 | -8% | -54 |
| Maryland | 2,013 | 1,951 | 1,865 | 1,857 | 1,759 | -5% | -98 |
| Massachusetts | 4,358 | 4,252 | 4,272 | 4,282 | 4,451 | 4% | 168 |
| Michigan | 9,090 | 9,126 | 8,689 | 8,347 | 8,960 | 7% | 614 |
| Minnesota | 5,425 | 5,715 | 5,934 | 4,244 | 4,220 | -1% | -24 |
| Mississippi | 7,484 | 7,274 | 7,996 | 5,440 | 6,913 | 27% | 1,473 |
| Missouri | 4,931 | 4,887 | 4,814 | 4,845 | 3,007 | -38% | -1,838 |
| Montana | 6,161 | 6,094 | 5,513 | 4,763 | 4,605 | -3% | -157 |
| Nebraska | 2,048 | 2,106 | 1,875 | 1,746 | 1,709 | -2% | -37 |
| Nevada | 522 | 542 | 615 | 573 | 554 | -3% | -19 |
| New Hampshire | 645 | 606 | 595 | 644 | 672 | 4% | 28 |
| New Jersey | 8,361 | 8,403 | 7,902 | 8,969 | 8,251 | -8% | -719 |
| New Mexico | 22,233 | 24,585 | 22,543 | 17,389 | 18,756 | 8% | 1,366 |
| New York | 9,891 | 10,530 | 11,111 | 10,804 | 10,678 | -1% | -126 |
| North Carolina | 5,512 | 5,307 | 5,205 | 5,391 | 5,179 | -4% | -212 |
| North Dakota | 21,413 | 28,085 | 24,338 | 15,982 | 18,781 | 18% | 2,799 |
| Ohio | 16,593 | 18,911 | 19,932 | 18,762 | 19,055 | 2% | 293 |
| Oklahoma | 78,075 | 73,406 | 63,034 | 58,685 | 61,562 | 5% | 2,876 |
| Oregon | 1,026 | 2,191 | 1,605 | 1,614 | 1,081 | -33% | -533 |
| Pennsylvania | 34,306 | 36,593 | 33,667 | 26,838 | 27,943 | 4% | 1,105 |
| Puerto Rico | 839 | 841 | 1,052 | 1,137 | 1,159 | 2% | 22 |
| Rhode Island | N/A | N/A | 53 | N/A | N/A | N/A | N/A |
| South Carolina | 1,523 | 1,687 | 1,623 | 1,660 | 1,691 | 2% | 31 |
| South Dakota | 1,279 | 1,265 | 1,299 | 1,300 | 1,204 | -7% | -95 |
| Tennessee | 2,804 | 3,002 | 2,809 | 2,741 | 2,785 | 2% | 44 |
| Texas | 411,632 | 428,668 | 388,285 | 325,415 | 325,439 | 0% | 24 |
| Utah | 9,486 | 9,545 | 7,858 | 6,392 | 6,507 | 2% | 115 |
| Vermont | 275 | 277 | 279 | 286 | 285 | 0% | 0 |
| Virgin Islands | 177 | 168 | 91 | 76 | 83 | 9% | 7 |
| Virginia | 4,550 | 4,753 | 4,708 | 4,462 | 4,538 | 2% | 76 |
| Washington | 4,924 | 4,996 | 5,063 | 5,111 | 5,182 | 1% | 71 |
| West Virginia | 10,508 | 11,494 | 10,972 | 9,738 | 9,455 | -3% | -284 |
| Wisconsin | 2,294 | 2,283 | 2,305 | 2,251 | 2,591 | 15% | 341 |
| Wyoming | 19,152 | 20,078 | 16,877 | 12,769 | 13,673 | 7% | 905 |

2013-2017

OIL & GAS ESTABLISHMENTS BY STATE

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>Percent Change '16-'17</u> | <u>Numeric Change '16-'17</u> |
|----------------------|-------------|-------------|-------------|-------------|-------------|---------------------------------------|---------------------------------------|
| Alabama | 431 | 431 | 426 | 425 | 431 | 1% | 6 |
| Alaska | 189 | 188 | 193 | 197 | 192 | -3% | -6 |
| Arizona | 184 | 188 | 185 | 179 | 177 | -2% | -3 |
| Arkansas | 654 | 640 | 649 | 625 | 587 | -6% | -38 |
| California | 1,534 | 1,627 | 1,591 | 1,570 | 1,519 | -3% | -51 |
| Colorado | 1,660 | 1,718 | 1,801 | 1,699 | 1,647 | -3% | -52 |
| Connecticut | 104 | 93 | 89 | 88 | 86 | -3% | -3 |
| Delaware | 36 | 38 | 37 | 35 | 35 | 0% | 0 |
| District of Columbia | 8 | 7 | 8 | 10 | 14 | 37% | 4 |
| Florida | 668 | 693 | 662 | 654 | 653 | 0% | -1 |
| Georgia | 378 | 378 | 373 | 382 | 379 | -1% | -3 |
| Hawaii | 54 | 57 | 58 | 59 | 59 | -1% | -1 |
| Idaho | 119 | 123 | 116 | 121 | 117 | -3% | -4 |
| Illinois | 907 | 936 | 920 | 878 | 780 | -11% | -98 |
| Indiana | 395 | 394 | 396 | 378 | 377 | 0% | -2 |
| Iowa | 246 | 246 | 246 | 251 | 246 | -2% | -5 |
| Kansas | 1,285 | 1,342 | 1,349 | 1,286 | 1,234 | -4% | -52 |
| Kentucky | 553 | 559 | 554 | 528 | 489 | -7% | -40 |
| Louisiana | 2,704 | 2,660 | 2,558 | 2,435 | 2,362 | -3% | -73 |
| Maine | 55 | 51 | 52 | 52 | 53 | 2% | 1 |
| Maryland | 165 | 163 | 167 | 177 | 173 | -3% | -5 |
| Massachusetts | 168 | 168 | 165 | 167 | 166 | 0% | 0 |
| Michigan | 626 | 635 | 619 | 601 | 583 | -3% | -19 |
| Minnesota | 329 | 320 | 311 | 314 | 321 | 2% | 7 |
| Mississippi | 766 | 775 | 778 | 735 | 696 | -5% | -40 |
| Missouri | 437 | 441 | 435 | 428 | 432 | 1% | 4 |
| Montana | 554 | 598 | 592 | 560 | 563 | 1% | 3 |
| Nebraska | 277 | 296 | 292 | 296 | 259 | -13% | -38 |
| Nevada | 107 | 100 | 105 | 101 | 95 | -6% | -6 |
| New Hampshire | 40 | 42 | 44 | 45 | 40 | -11% | -5 |
| New Jersey | 324 | 318 | 306 | 302 | 305 | 1% | 3 |
| New Mexico | 1,154 | 1,264 | 1,300 | 1,285 | 1,220 | -5% | -65 |
| New York | 522 | 513 | 520 | 505 | 504 | 0% | -1 |
| North Carolina | 372 | 362 | 364 | 369 | 368 | 0% | -1 |
| North Dakota | 955 | 1,016 | 1,062 | 1,017 | 1,009 | -1% | -8 |
| Ohio | 1,120 | 1,167 | 1,196 | 1,173 | 1,147 | -2% | -25 |
| Oklahoma | 4,159 | 4,246 | 4,263 | 4,127 | 3,974 | -4% | -153 |
| Oregon | 129 | 128 | 134 | 130 | 130 | 0% | -1 |
| Pennsylvania | 1,463 | 1,501 | 1,485 | 1,451 | 1,359 | -6% | -92 |
| Puerto Rico | 74 | 70 | 69 | 72 | 85 | 17% | 13 |
| Rhode Island | 31 | 34 | 34 | 32 | 27 | -16% | -5 |
| South Carolina | 197 | 194 | 190 | 186 | 182 | -2% | -4 |
| South Dakota | 139 | 131 | 128 | 132 | 129 | -2% | -3 |
| Tennessee | 293 | 304 | 300 | 305 | 304 | 0% | -2 |
| Texas | 12,259 | 12,702 | 12,802 | 12,245 | 11,681 | -5% | -564 |
| Utah | 638 | 659 | 668 | 605 | 564 | -7% | -41 |
| Vermont | 20 | 21 | 21 | 21 | 20 | -4% | -1 |
| Virgin Islands | 10 | 9 | 7 | 10 | 12 | 18% | 2 |
| Virginia | 322 | 322 | 321 | 322 | 320 | -1% | -3 |
| Washington | 206 | 205 | 208 | 213 | 206 | -3% | -7 |
| West Virginia | 770 | 770 | 778 | 747 | 720 | -4% | -28 |
| Wisconsin | 212 | 204 | 208 | 208 | 214 | 3% | 6 |
| Wyoming | 1,152 | 1,137 | 1,113 | 1,035 | 1,018 | -2% | -17 |

2013-2017

OIL & GAS WAGES BY STATE

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>Percent Change '16-'17</u> | <u>Numeric Change '16-'17</u> |
|----------------------|-------------|-------------|-------------|-------------|-------------|---------------------------------------|---------------------------------------|
| Alabama | \$71,875 | \$73,214 | \$79,065 | \$81,358 | \$80,315 | -1% | -\$1,043 |
| Alaska | \$122,543 | \$137,252 | \$140,598 | \$134,080 | \$127,827 | -5% | -\$6,253 |
| Arizona | \$65,744 | \$66,793 | \$66,301 | \$66,149 | \$69,957 | 6% | \$3,808 |
| Arkansas | \$75,061 | \$77,346 | \$79,044 | \$71,159 | \$67,403 | -5% | -\$3,756 |
| California | \$145,447 | \$143,121 | \$144,101 | \$139,399 | \$121,253 | -13% | -\$18,146 |
| Colorado | \$117,696 | \$119,637 | \$122,055 | \$121,497 | \$118,812 | -2% | -\$2,685 |
| Connecticut | \$103,432 | \$100,272 | \$105,039 | \$101,498 | \$100,113 | -1% | -\$1,385 |
| Delaware | \$105,904 | \$120,974 | \$92,214 | \$95,514 | \$92,101 | -4% | -\$3,413 |
| District of Columbia | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Florida | \$80,628 | \$81,003 | \$84,077 | \$84,698 | \$73,927 | -13% | -\$10,771 |
| Georgia | \$74,432 | \$81,174 | \$90,783 | \$95,601 | \$82,155 | -14% | -\$13,446 |
| Hawaii | \$62,728 | \$63,456 | \$67,285 | \$100,539 | \$96,205 | -4% | -\$4,334 |
| Idaho | \$52,931 | \$59,069 | \$55,852 | \$60,698 | \$57,390 | -5% | -\$3,307 |
| Illinois | \$88,481 | \$92,247 | \$97,468 | \$98,962 | \$97,502 | -1% | -\$1,460 |
| Indiana | \$75,022 | \$74,555 | \$89,103 | \$76,730 | \$75,752 | -1% | -\$978 |
| Iowa | \$64,929 | \$66,355 | \$67,759 | \$67,532 | \$65,265 | -3% | -\$2,267 |
| Kansas | \$70,956 | \$72,528 | \$72,366 | \$72,439 | \$72,522 | 0% | \$82 |
| Kentucky | \$72,331 | \$66,060 | \$71,556 | \$71,028 | \$70,753 | 0% | -\$276 |
| Louisiana | \$99,364 | \$102,824 | \$104,820 | \$105,074 | \$101,579 | -3% | -\$3,495 |
| Maine | \$66,440 | \$67,612 | \$80,464 | \$68,690 | \$69,311 | 1% | \$621 |
| Maryland | \$71,035 | \$71,751 | \$76,507 | \$79,448 | \$80,671 | 2% | \$1,222 |
| Massachusetts | \$103,921 | \$103,837 | \$104,130 | \$107,265 | \$118,533 | 11% | \$11,268 |
| Michigan | \$79,812 | \$79,514 | \$78,351 | \$78,674 | \$76,804 | -2% | -\$1,870 |
| Minnesota | \$89,278 | \$91,962 | \$93,165 | \$78,549 | \$75,653 | -4% | -\$2,896 |
| Mississippi | \$74,655 | \$78,009 | \$87,647 | \$78,619 | \$85,436 | 9% | \$6,818 |
| Missouri | \$72,026 | \$76,072 | \$75,694 | \$76,595 | \$65,780 | -14% | -\$10,814 |
| Montana | \$89,389 | \$96,333 | \$94,991 | \$93,860 | \$90,144 | -4% | -\$3,716 |
| Nebraska | \$77,138 | \$92,143 | \$88,483 | \$81,008 | \$77,967 | -4% | -\$3,041 |
| Nevada | \$74,923 | \$73,429 | \$72,515 | \$70,711 | \$72,402 | 2% | \$1,691 |
| New Hampshire | \$83,109 | \$88,411 | \$88,958 | \$89,505 | \$85,471 | -5% | -\$4,033 |
| New Jersey | \$102,308 | \$105,570 | \$104,676 | \$108,766 | \$106,692 | -2% | -\$2,074 |
| New Mexico | \$76,892 | \$79,390 | \$77,299 | \$75,378 | \$74,674 | -1% | -\$704 |
| New York | \$103,231 | \$105,822 | \$111,441 | \$110,169 | \$107,988 | -2% | -\$2,181 |
| North Carolina | \$61,676 | \$62,024 | \$63,053 | \$63,534 | \$64,476 | 1% | \$942 |
| North Dakota | \$96,960 | \$105,167 | \$103,519 | \$95,849 | \$97,604 | 2% | \$1,756 |
| Ohio | \$77,880 | \$81,145 | \$83,829 | \$85,127 | \$85,702 | 1% | \$575 |
| Oklahoma | \$97,520 | \$104,400 | \$108,346 | \$97,139 | \$97,620 | 0% | \$481 |
| Oregon | \$57,777 | \$76,882 | \$69,234 | \$72,691 | \$65,119 | -10% | -\$7,572 |
| Pennsylvania | \$88,340 | \$92,356 | \$95,188 | \$92,432 | \$92,069 | 0% | -\$362 |
| Puerto Rico | \$40,540 | \$42,824 | \$44,840 | \$43,662 | \$42,025 | -4% | -\$1,637 |
| Rhode Island | N/A | N/A | \$76,850 | N/A | N/A | N/A | N/A |
| South Carolina | \$61,136 | \$65,427 | \$66,049 | \$64,172 | \$63,276 | -1% | -\$897 |
| South Dakota | \$61,834 | \$60,640 | \$63,145 | \$60,025 | \$59,057 | -2% | -\$969 |
| Tennessee | \$75,251 | \$80,609 | \$80,897 | \$77,398 | \$70,477 | -9% | -\$6,921 |
| Texas | \$125,128 | \$127,222 | \$130,406 | \$133,453 | \$128,635 | -4% | -\$4,819 |
| Utah | \$86,168 | \$86,566 | \$90,553 | \$90,259 | \$84,168 | -7% | -\$6,091 |
| Vermont | \$58,059 | \$57,323 | \$59,639 | \$57,748 | \$55,685 | -4% | -\$2,062 |
| Virgin Islands | \$174,564 | \$118,749 | \$95,315 | \$61,238 | \$59,645 | -3% | -\$1,592 |
| Virginia | \$78,809 | \$78,723 | \$81,802 | \$83,861 | \$79,042 | -6% | -\$4,819 |
| Washington | \$104,448 | \$106,735 | \$111,683 | \$108,470 | \$106,380 | -2% | -\$2,090 |
| West Virginia | \$78,839 | \$81,735 | \$80,113 | \$80,692 | \$80,809 | 0% | \$117 |
| Wisconsin | \$74,519 | \$76,511 | \$73,784 | \$74,044 | \$74,836 | 1% | \$792 |
| Wyoming | \$91,207 | \$93,921 | \$92,081 | \$86,613 | \$86,600 | 0% | -\$12 |

2013-2017

OIL & GAS PAYROLL BY STATE (IN MILLIONS)

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>Percent Change '16-'17</u> | <u>Numeric Change '16-'17</u> |
|----------------------|-------------|-------------|-------------|-------------|-------------|---------------------------------------|---------------------------------------|
| Alabama | \$383 | \$382 | \$446 | \$441 | \$425 | -4% | -\$16 |
| Alaska | \$1,548 | \$2,127 | \$2,107 | \$1,650 | \$1,413 | -14% | -\$237 |
| Arizona | \$130 | \$130 | \$121 | \$124 | \$121 | -3% | -\$3 |
| Arkansas | \$699 | \$672 | \$664 | \$402 | \$342 | -15% | -\$60 |
| California | \$6,742 | \$6,662 | \$6,148 | \$5,207 | \$4,360 | -16% | -\$847 |
| Colorado | \$3,365 | \$3,890 | \$3,604 | \$2,807 | \$2,961 | 5% | \$154 |
| Connecticut | \$184 | \$177 | \$156 | \$150 | \$142 | -5% | -\$8 |
| Delaware | \$30 | \$34 | \$16 | \$22 | \$21 | -6% | -\$1 |
| District of Columbia | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Florida | \$452 | \$473 | \$487 | \$500 | \$456 | -9% | -\$44 |
| Georgia | \$342 | \$372 | \$442 | \$507 | \$453 | -11% | -\$54 |
| Hawaii | \$35 | \$39 | \$42 | \$107 | \$110 | 3% | \$3 |
| Idaho | \$24 | \$28 | \$30 | \$30 | \$30 | 0% | \$0 |
| Illinois | \$1,277 | \$1,329 | \$1,381 | \$1,365 | \$1,362 | 0% | -\$4 |
| Indiana | \$390 | \$404 | \$505 | \$397 | \$394 | -1% | -\$3 |
| Iowa | \$144 | \$149 | \$152 | \$153 | \$147 | -4% | -\$5 |
| Kansas | \$1,036 | \$1,071 | \$930 | \$795 | \$743 | -7% | -\$52 |
| Kentucky | \$425 | \$345 | \$358 | \$334 | \$319 | -5% | -\$15 |
| Louisiana | \$6,972 | \$7,256 | \$6,804 | \$5,746 | \$5,232 | -9% | -\$514 |
| Maine | \$43 | \$47 | \$58 | \$48 | \$44 | -7% | -\$3 |
| Maryland | \$143 | \$140 | \$143 | \$148 | \$142 | -4% | -\$6 |
| Massachusetts | \$453 | \$442 | \$445 | \$459 | \$528 | 15% | \$68 |
| Michigan | \$726 | \$726 | \$681 | \$657 | \$688 | 5% | \$32 |
| Minnesota | \$484 | \$526 | \$553 | \$333 | \$319 | -4% | -\$14 |
| Mississippi | \$559 | \$567 | \$701 | \$428 | \$591 | 38% | \$163 |
| Missouri | \$355 | \$372 | \$364 | \$371 | \$198 | -47% | -\$173 |
| Montana | \$551 | \$587 | \$524 | \$447 | \$415 | -7% | -\$32 |
| Nebraska | \$158 | \$194 | \$166 | \$141 | \$133 | -6% | -\$8 |
| Nevada | \$39 | \$40 | \$45 | \$40 | \$40 | -1% | \$0 |
| New Hampshire | \$54 | \$54 | \$106 | \$58 | \$57 | 0% | \$0 |
| New Jersey | \$855 | \$887 | \$827 | \$976 | \$880 | -10% | -\$95 |
| New Mexico | \$1,710 | \$1,952 | \$1,743 | \$1,311 | \$1,401 | 7% | \$90 |
| New York | \$1,021 | \$1,114 | \$1,238 | \$1,190 | \$1,153 | -3% | -\$37 |
| North Carolina | \$340 | \$329 | \$328 | \$343 | \$334 | -3% | -\$9 |
| North Dakota | \$2,076 | \$2,954 | \$2,519 | \$1,532 | \$1,833 | 20% | \$301 |
| Ohio | \$1,292 | \$1,534 | \$1,671 | \$1,597 | \$1,633 | 2% | \$36 |
| Oklahoma | \$7,614 | \$7,664 | \$6,830 | \$5,701 | \$6,010 | 5% | \$309 |
| Oregon | \$59 | \$168 | \$111 | \$117 | \$70 | -40% | -\$47 |
| Pennsylvania | \$3,031 | \$3,380 | \$3,205 | \$2,481 | \$2,573 | 4% | \$92 |
| Puerto Rico | \$34 | \$36 | \$47 | \$50 | \$49 | -2% | -\$1 |
| Rhode Island | N/A | N/A | \$4 | N/A | N/A | N/A | N/A |
| South Carolina | \$93 | \$110 | \$107 | \$107 | \$107 | 0% | \$0 |
| South Dakota | \$79 | \$77 | \$82 | \$78 | \$71 | -9% | -\$7 |
| Tennessee | \$211 | \$242 | \$227 | \$212 | \$196 | -7% | -\$16 |
| Texas | \$51,507 | \$54,536 | \$50,635 | \$43,428 | \$41,860 | -4% | -\$1,568 |
| Utah | \$817 | \$826 | \$712 | \$577 | \$548 | -5% | -\$29 |
| Vermont | \$16 | \$16 | \$17 | \$16 | \$16 | -4% | -\$1 |
| Virgin Islands | \$31 | \$20 | \$9 | \$5 | \$5 | 6% | \$0 |
| Virginia | \$359 | \$374 | \$385 | \$374 | \$359 | -4% | -\$16 |
| Washington | \$514 | \$533 | \$565 | \$554 | \$551 | -1% | -\$3 |
| West Virginia | \$828 | \$939 | \$879 | \$786 | \$764 | -3% | -\$22 |
| Wisconsin | \$171 | \$175 | \$170 | \$167 | \$194 | 16% | \$27 |
| Wyoming | \$1,747 | \$1,886 | \$1,554 | \$1,106 | \$1,184 | 7% | \$78 |

2017

OIL & GAS EMPLOYMENT

United States Total:
832,777

| | | |
|-----|----------------|---------|
| 1. | Texas | 325,439 |
| 2. | Oklahoma | 61,562 |
| 3. | Louisiana | 51,507 |
| 4. | California | 35,956 |
| 5. | Pennsylvania | 27,943 |
| 6. | Colorado | 24,925 |
| 7. | Ohio | 19,055 |
| 8. | North Dakota | 18,781 |
| 9. | New Mexico | 18,756 |
| 10. | Illinois | 13,966 |
| 11. | Wyoming | 13,673 |
| 12. | Alaska | 11,054 |
| 13. | New York | 10,678 |
| 14. | Kansas | 10,243 |
| 15. | West Virginia | 9,455 |
| 16. | Michigan | 8,960 |
| 17. | New Jersey | 8,251 |
| 18. | Mississippi | 6,913 |
| 19. | Utah | 6,507 |
| 20. | Florida | 6,162 |
| 21. | Georgia | 5,510 |
| 22. | Alabama | 5,293 |
| 23. | Indiana | 5,201 |
| 24. | Washington | 5,182 |
| 25. | North Carolina | 5,179 |
| 26. | Arkansas | 5,075 |
| 27. | Montana | 4,605 |
| 28. | Virginia | 4,538 |
| 29. | Kentucky | 4,503 |
| 30. | Massachusetts | 4,451 |
| 31. | Minnesota | 4,220 |
| 32. | Missouri | 3,007 |
| 33. | Tennessee | 2,785 |
| 34. | Wisconsin | 2,591 |
| 35. | Iowa | 2,258 |
| 36. | Maryland | 1,759 |
| 37. | Arizona | 1,723 |
| 38. | Nebraska | 1,709 |
| 39. | South Carolina | 1,691 |
| 40. | Connecticut | 1,417 |
| 41. | South Dakota | 1,204 |
| 42. | Puerto Rico | 1,159 |
| 43. | Hawaii | 1,143 |
| 44. | Oregon | 1,081 |
| 45. | New Hampshire | 672 |
| 46. | Maine | 638 |
| 47. | Nevada | 554 |
| 48. | Idaho | 522 |
| 49. | Vermont | 285 |
| 50. | Delaware | 224 |
| 51. | Virgin Islands | 83 |

2017

OIL & GAS ESTABLISHMENTS

United States Total:
40,157

| | | |
|-----|----------------------|--------|
| 1. | Texas | 11,681 |
| 2. | Oklahoma | 3,974 |
| 3. | Louisiana | 2,362 |
| 4. | Colorado | 1,647 |
| 5. | California | 1,519 |
| 6. | Pennsylvania | 1,359 |
| 7. | Kansas | 1,234 |
| 8. | New Mexico | 1,220 |
| 9. | Ohio | 1,147 |
| 10. | Wyoming | 1,018 |
| 11. | North Dakota | 1,009 |
| 12. | Illinois | 780 |
| 13. | West Virginia | 720 |
| 14. | Mississippi | 696 |
| 15. | Florida | 653 |
| 16. | Arkansas | 587 |
| 17. | Michigan | 583 |
| 18. | Utah | 564 |
| 19. | Montana | 563 |
| 20. | New York | 504 |
| 21. | Kentucky | 489 |
| 22. | Missouri | 432 |
| 23. | Alabama | 431 |
| 24. | Georgia | 379 |
| 25. | Indiana | 377 |
| 26. | North Carolina | 368 |
| 27. | Minnesota | 321 |
| 28. | Virginia | 320 |
| 29. | New Jersey | 305 |
| 30. | Tennessee | 304 |
| 31. | Nebraska | 259 |
| 32. | Iowa | 246 |
| 33. | Wisconsin | 214 |
| 34. | Washington | 206 |
| 35. | Alaska | 192 |
| 36. | South Carolina | 182 |
| 37. | Arizona | 177 |
| 38. | Maryland | 173 |
| 39. | Massachusetts | 166 |
| 40. | Oregon | 130 |
| 41. | South Dakota | 129 |
| 42. | Idaho | 117 |
| 43. | Nevada | 95 |
| 44. | Connecticut | 86 |
| 45. | Puerto Rico | 85 |
| 46. | Hawaii | 59 |
| 47. | Maine | 53 |
| 48. | New Hampshire | 40 |
| 49. | Delaware | 35 |
| 50. | Rhode Island | 27 |
| 51. | Vermont | 20 |
| 52. | District of Columbia | 14 |
| 53. | Virgin Islands | 12 |

2017 OIL & GAS WAGES

United States Total:
\$109,498

| | | |
|-----|----------------|-----------|
| 1. | Texas | \$128,635 |
| 2. | Alaska | \$127,827 |
| 3. | California | \$121,253 |
| 4. | Colorado | \$118,812 |
| 5. | Massachusetts | \$118,533 |
| 6. | New York | \$107,988 |
| 7. | New Jersey | \$106,692 |
| 8. | Washington | \$106,380 |
| 9. | Louisiana | \$101,579 |
| 10. | Connecticut | \$100,113 |
| 11. | Oklahoma | \$97,620 |
| 12. | North Dakota | \$97,604 |
| 13. | Illinois | \$97,502 |
| 14. | Hawaii | \$96,205 |
| 15. | Delaware | \$92,101 |
| 16. | Pennsylvania | \$92,069 |
| 17. | Montana | \$90,144 |
| 18. | Wyoming | \$86,600 |
| 19. | Ohio | \$85,702 |
| 20. | New Hampshire | \$85,471 |
| 21. | Mississippi | \$85,436 |
| 22. | Utah | \$84,168 |
| 23. | Georgia | \$82,155 |
| 24. | West Virginia | \$80,809 |
| 25. | Maryland | \$80,671 |
| 26. | Alabama | \$80,315 |
| 27. | Virginia | \$79,042 |
| 28. | Nebraska | \$77,967 |
| 29. | Michigan | \$76,804 |
| 30. | Indiana | \$75,752 |
| 31. | Minnesota | \$75,653 |
| 32. | Wisconsin | \$74,836 |
| 33. | New Mexico | \$74,674 |
| 34. | Florida | \$73,927 |
| 35. | Kansas | \$72,522 |
| 36. | Nevada | \$72,402 |
| 37. | Kentucky | \$70,753 |
| 38. | Tennessee | \$70,477 |
| 39. | Arizona | \$69,957 |
| 40. | Maine | \$69,311 |
| 41. | Arkansas | \$67,403 |
| 42. | Missouri | \$65,780 |
| 43. | Iowa | \$65,265 |
| 44. | Oregon | \$65,119 |
| 45. | North Carolina | \$64,476 |
| 46. | South Carolina | \$63,276 |
| 47. | Virgin Islands | \$59,645 |
| 48. | South Dakota | \$59,057 |
| 49. | Idaho | \$57,390 |
| 50. | Vermont | \$55,685 |
| 51. | Puerto Rico | \$42,025 |

2017 OIL & GAS PAYROLL (IN MILLIONS)

United States Total:
\$91,295,081,222

| | | |
|-----|----------------|------------------|
| 1. | Texas | \$41,859,737,421 |
| 2. | Oklahoma | \$6,009,656,457 |
| 3. | Louisiana | \$5,232,029,205 |
| 4. | California | \$4,359,719,886 |
| 5. | Colorado | \$2,961,439,937 |
| 6. | Pennsylvania | \$2,572,702,011 |
| 7. | North Dakota | \$1,833,096,766 |
| 8. | Ohio | \$1,633,043,007 |
| 9. | Alaska | \$1,412,965,368 |
| 10. | New Mexico | \$1,400,575,278 |
| 11. | Illinois | \$1,361,684,019 |
| 12. | Wyoming | \$1,184,122,183 |
| 13. | New York | \$1,153,116,331 |
| 14. | New Jersey | \$880,292,484 |
| 15. | West Virginia | \$764,010,030 |
| 16. | Kansas | \$742,850,894 |
| 17. | Michigan | \$688,198,029 |
| 18. | Mississippi | \$590,622,256 |
| 19. | Washington | \$551,244,561 |
| 20. | Utah | \$547,697,934 |
| 21. | Massachusetts | \$527,570,224 |
| 22. | Florida | \$455,533,730 |
| 23. | Georgia | \$452,665,632 |
| 24. | Alabama | \$425,106,905 |
| 25. | Montana | \$415,126,339 |
| 26. | Indiana | \$393,960,529 |
| 27. | Virginia | \$358,653,319 |
| 28. | Arkansas | \$342,084,661 |
| 29. | North Carolina | \$333,926,740 |
| 30. | Minnesota | \$319,241,167 |
| 31. | Kentucky | \$318,622,701 |
| 32. | Missouri | \$197,768,008 |
| 33. | Tennessee | \$196,242,512 |
| 34. | Wisconsin | \$193,913,696 |
| 35. | Iowa | \$147,373,458 |
| 36. | Maryland | \$141,926,965 |
| 37. | Connecticut | \$141,901,767 |
| 38. | Nebraska | \$133,206,088 |
| 39. | Arizona | \$120,542,040 |
| 40. | Hawaii | \$109,954,575 |
| 41. | South Carolina | \$106,988,390 |
| 42. | South Dakota | \$71,113,922 |
| 43. | Oregon | \$70,393,413 |
| 44. | New Hampshire | \$57,450,969 |
| 45. | Puerto Rico | \$48,699,921 |
| 46. | Maine | \$44,214,572 |
| 47. | Nevada | \$40,086,850 |
| 48. | Idaho | \$29,948,244 |
| 49. | Delaware | \$20,645,988 |
| 50. | Vermont | \$15,888,915 |
| 51. | Virgin Islands | \$4,925,720 |

2017 Employment

OIL & GAS EXTRACTION

United States Total:
143,876

| | | |
|----|----------------------|--------|
| 1 | Texas | 75,584 |
| 2 | Oklahoma | 18,738 |
| 3 | Colorado | 8,434 |
| 4 | Louisiana | 6,273 |
| 5 | California | 4,892 |
| 6 | Pennsylvania | 4,594 |
| 7 | New Mexico | 4,325 |
| 8 | Alaska | 3,579 |
| 9 | Wyoming | 3,131 |
| 10 | North Dakota | 2,543 |
| 11 | West Virginia | 2,341 |
| 12 | Kansas | 2,008 |
| 13 | Utah | 1,229 |
| 14 | Ohio | 1,073 |
| 15 | Arkansas | 761 |
| 16 | Illinois | 734 |
| 17 | Montana | 695 |
| 18 | Mississippi | 574 |
| 19 | Kentucky | 537 |
| 20 | Michigan | 437 |
| 21 | Alabama | 412 |
| 22 | Virginia | 254 |
| 23 | Indiana | 145 |
| 24 | New York | 106 |
| 25 | Florida | 90 |
| 26 | Arizona | 85 |
| 27 | Nebraska | 67 |
| 28 | New Jersey | 40 |
| 29 | Tennessee | 37 |
| 30 | Minnesota | 31 |
| 31 | Idaho | 31 |
| 32 | South Dakota | 24 |
| 33 | Nevada | 21 |
| 34 | Missouri | 9 |
| 35 | Connecticut | 0 |
| 35 | Delaware | 0 |
| 35 | District of Columbia | 0 |
| 35 | Georgia | 0 |
| 35 | Hawaii | 0 |
| 35 | Iowa | 0 |
| 35 | Maine | 0 |
| 35 | Maryland | 0 |
| 35 | Massachusetts | 0 |
| 35 | New Hampshire | 0 |
| 35 | North Carolina | 0 |
| 35 | Oregon | 0 |
| 35 | Puerto Rico | 0 |
| 35 | Rhode Island | 0 |
| 35 | South Carolina | 0 |
| 35 | Vermont | 0 |
| 35 | Virgin Islands | 0 |

2017 Employment

DRILLING OIL & GAS WELLS

United States Total:
56,875

| | | |
|----|----------------------|--------|
| 1 | Texas | 29,489 |
| 2 | Oklahoma | 4,836 |
| 3 | Louisiana | 3,423 |
| 4 | California | 2,878 |
| 5 | North Dakota | 2,443 |
| 6 | New Mexico | 1,820 |
| 7 | Pennsylvania | 1,721 |
| 8 | Colorado | 1,698 |
| 9 | Wyoming | 1,348 |
| 10 | Ohio | 1,208 |
| 11 | West Virginia | 997 |
| 12 | Alaska | 554 |
| 13 | Michigan | 294 |
| 14 | Utah | 283 |
| 15 | Illinois | 253 |
| 16 | Kentucky | 164 |
| 17 | Indiana | 163 |
| 18 | North Carolina | 140 |
| 19 | Virginia | 135 |
| 20 | Florida | 127 |
| 21 | Montana | 126 |
| 22 | Alabama | 122 |
| 23 | Arizona | 113 |
| 24 | Georgia | 106 |
| 25 | Maryland | 71 |
| 26 | New York | 68 |
| 27 | Nebraska | 63 |
| 28 | Missouri | 57 |
| 29 | Massachusetts | 56 |
| 30 | South Carolina | 52 |
| 31 | New Jersey | 50 |
| 32 | Tennessee | 38 |
| 33 | Washington | 35 |
| 34 | New Hampshire | 16 |
| 35 | Iowa | 16 |
| 36 | Nevada | 9 |
| 37 | Wisconsin | 8 |
| 38 | Arkansas | 0 |
| 38 | Connecticut | 0 |
| 38 | Delaware | 0 |
| 38 | District of Columbia | 0 |
| 38 | Hawaii | 0 |
| 38 | Idaho | 0 |
| 38 | Kansas | 0 |
| 38 | Maine | 0 |
| 38 | Minnesota | 0 |
| 38 | Mississippi | 0 |
| 38 | Oregon | 0 |
| 38 | Puerto Rico | 0 |
| 38 | Rhode Island | 0 |
| 38 | South Dakota | 0 |
| 38 | Vermont | 0 |
| 38 | Virgin Islands | 0 |

SUPPORT ACTIVITIES – OIL & GAS

United States Total:
224,647

| | | |
|----|----------------------|---------|
| 1 | Texas | 103,366 |
| 2 | Louisiana | 21,624 |
| 3 | Oklahoma | 21,435 |
| 4 | Colorado | 10,885 |
| 5 | New Mexico | 10,809 |
| 6 | North Dakota | 10,708 |
| 7 | Pennsylvania | 8,865 |
| 8 | Wyoming | 6,396 |
| 9 | California | 6,130 |
| 10 | Alaska | 5,729 |
| 11 | Ohio | 3,885 |
| 12 | West Virginia | 2,679 |
| 13 | Kansas | 2,409 |
| 14 | Utah | 2,186 |
| 15 | Mississippi | 1,861 |
| 16 | Michigan | 1,216 |
| 17 | Arkansas | 1,043 |
| 18 | Montana | 992 |
| 19 | Illinois | 780 |
| 20 | Alabama | 457 |
| 21 | Virginia | 269 |
| 22 | New York | 264 |
| 23 | Florida | 245 |
| 24 | Kentucky | 184 |
| 25 | North Carolina | 119 |
| 26 | Indiana | 115 |
| 27 | New Jersey | 113 |
| 28 | Washington | 101 |
| 29 | Georgia | 74 |
| 30 | Tennessee | 74 |
| 31 | Nebraska | 55 |
| 32 | Idaho | 45 |
| 33 | South Carolina | 41 |
| 34 | Wisconsin | 31 |
| 35 | Nevada | 25 |
| 36 | Arizona | 23 |
| 37 | Missouri | 20 |
| 38 | Maryland | 16 |
| 39 | South Dakota | 16 |
| 40 | Massachusetts | 16 |
| 41 | Minnesota | 3 |
| 42 | Connecticut | 0 |
| 42 | Delaware | 0 |
| 42 | District of Columbia | 0 |
| 42 | Hawaii | 0 |
| 42 | Iowa | 0 |
| 42 | Maine | 0 |
| 42 | New Hampshire | 0 |
| 42 | Oregon | 0 |
| 42 | Puerto Rico | 0 |
| 42 | Rhode Island | 0 |

NATURAL GAS DISTRIBUTION

United States Total:
111,618

| | | |
|----|----------------------|-------|
| 1 | Texas | 7,392 |
| 2 | New York | 7,124 |
| 3 | Ohio | 5,515 |
| 4 | Pennsylvania | 4,865 |
| 5 | Illinois | 4,667 |
| 6 | New Jersey | 4,565 |
| 7 | Oklahoma | 3,714 |
| 8 | Massachusetts | 2,943 |
| 9 | Michigan | 2,444 |
| 10 | Georgia | 2,076 |
| 11 | North Carolina | 2,068 |
| 12 | Indiana | 1,767 |
| 13 | Kansas | 1,711 |
| 14 | Virginia | 1,615 |
| 15 | Minnesota | 1,600 |
| 16 | Florida | 1,381 |
| 17 | Alabama | 1,254 |
| 18 | Arkansas | 1,059 |
| 19 | Louisiana | 1,036 |
| 20 | Colorado | 849 |
| 21 | New Mexico | 829 |
| 22 | Utah | 810 |
| 23 | Connecticut | 788 |
| 24 | Wisconsin | 762 |
| 25 | Kentucky | 729 |
| 26 | West Virginia | 718 |
| 27 | Washington | 699 |
| 28 | Nebraska | 661 |
| 29 | Missouri | 617 |
| 30 | Maryland | 586 |
| 31 | Tennessee | 571 |
| 32 | Iowa | 565 |
| 33 | Mississippi | 541 |
| 34 | South Carolina | 407 |
| 35 | Montana | 375 |
| 36 | Alaska | 297 |
| 37 | New Hampshire | 268 |
| 38 | Wyoming | 241 |
| 39 | South Dakota | 201 |
| 40 | Maine | 128 |
| 41 | Puerto Rico | 61 |
| 42 | Arizona | 0 |
| 42 | California | 0 |
| 42 | Delaware | 0 |
| 42 | District of Columbia | 0 |
| 42 | Hawaii | 0 |
| 42 | Idaho | 0 |
| 42 | Nevada | 0 |
| 42 | North Dakota | 0 |
| 42 | Oregon | 0 |
| 42 | Rhode Island | 0 |
| 42 | Vermont | 0 |
| 42 | Virgin Islands | 0 |

2017 Employment

PETROLEUM REFINERIES

United States Total:
71,025

| | | |
|----|----------------------|--------|
| 1 | Texas | 19,543 |
| 2 | California | 11,180 |
| 3 | Louisiana | 9,930 |
| 4 | Illinois | 2,892 |
| 5 | Washington | 2,303 |
| 6 | Ohio | 2,161 |
| 7 | Pennsylvania | 2,066 |
| 8 | Mississippi | 1,937 |
| 9 | Oklahoma | 1,598 |
| 10 | Kansas | 1,444 |
| 11 | New Jersey | 1,409 |
| 12 | Wyoming | 1,299 |
| 13 | Montana | 1,267 |
| 14 | Utah | 1,219 |
| 15 | Alabama | 636 |
| 16 | Arkansas | 588 |
| 17 | Hawaii | 514 |
| 18 | West Virginia | 341 |
| 19 | Alaska | 318 |
| 20 | Florida | 119 |
| 21 | Georgia | 76 |
| 22 | Missouri | 72 |
| 23 | Iowa | 54 |
| 24 | South Carolina | 25 |
| 25 | New York | 16 |
| 26 | Arizona | 0 |
| 26 | Colorado | 0 |
| 26 | Connecticut | 0 |
| 26 | Delaware | 0 |
| 26 | District of Columbia | 0 |
| 26 | Idaho | 0 |
| 26 | Indiana | 0 |
| 26 | Kentucky | 0 |
| 26 | Maine | 0 |
| 26 | Maryland | 0 |
| 26 | Massachusetts | 0 |
| 26 | Michigan | 0 |
| 26 | Minnesota | 0 |
| 26 | Nebraska | 0 |
| 26 | Nevada | 0 |
| 26 | New Hampshire | 0 |
| 26 | New Mexico | 0 |
| 26 | North Carolina | 0 |
| 26 | North Dakota | 0 |
| 26 | Oregon | 0 |
| 26 | Puerto Rico | 0 |
| 26 | Rhode Island | 0 |
| 26 | South Dakota | 0 |
| 26 | Tennessee | 0 |
| 26 | Vermont | 0 |
| 26 | Virgin Islands | 0 |

2017 Employment

PETROCHEMICAL MANUFACTURING

United States Total:
25,841

| | | |
|---|----------------------|--------|
| 1 | Texas | 17,633 |
| 2 | Louisiana | 4,223 |
| 3 | West Virginia | 501 |
| 4 | Florida | 101 |
| 5 | North Carolina | 96 |
| 6 | Ohio | 73 |
| 7 | Illinois | 41 |
| 8 | California | 9 |
| 9 | Alabama | 0 |
| 9 | Alaska | 0 |
| 9 | Arizona | 0 |
| 9 | Arkansas | 0 |
| 9 | Colorado | 0 |
| 9 | Connecticut | 0 |
| 9 | Delaware | 0 |
| 9 | District of Columbia | 0 |
| 9 | Georgia | 0 |
| 9 | Hawaii | 0 |
| 9 | Idaho | 0 |
| 9 | Indiana | 0 |
| 9 | Iowa | 0 |
| 9 | Kansas | 0 |
| 9 | Kentucky | 0 |
| 9 | Maine | 0 |
| 9 | Maryland | 0 |
| 9 | Massachusetts | 0 |
| 9 | Michigan | 0 |
| 9 | Minnesota | 0 |
| 9 | Mississippi | 0 |
| 9 | Missouri | 0 |
| 9 | Montana | 0 |
| 9 | Nebraska | 0 |
| 9 | Nevada | 0 |
| 9 | New Hampshire | 0 |
| 9 | New Jersey | 0 |
| 9 | New Mexico | 0 |
| 9 | New York | 0 |
| 9 | North Dakota | 0 |
| 9 | Oklahoma | 0 |
| 9 | Oregon | 0 |
| 9 | Pennsylvania | 0 |
| 9 | Puerto Rico | 0 |
| 9 | Rhode Island | 0 |
| 9 | South Carolina | 0 |
| 9 | South Dakota | 0 |
| 9 | Tennessee | 0 |
| 9 | Utah | 0 |
| 9 | Vermont | 0 |
| 9 | Virgin Islands | 0 |
| 9 | Virginia | 0 |
| 9 | Washington | 0 |
| 9 | Wisconsin | 0 |
| 9 | Wyoming | 0 |

2017 Employment

OIL & GAS MACHINERY + EQUIPMENT

United States Total:

53,769

| | | |
|----|----------------------|--------|
| 1 | Texas | 36,049 |
| 2 | Oklahoma | 6,328 |
| 3 | California | 1,302 |
| 4 | Pennsylvania | 352 |
| 5 | Ohio | 239 |
| 6 | Colorado | 236 |
| 7 | Alabama | 162 |
| 8 | Mississippi | 142 |
| 9 | Indiana | 111 |
| 10 | Florida | 67 |
| 11 | West Virginia | 52 |
| 12 | Illinois | 17 |
| 13 | Idaho | 6 |
| 14 | Alaska | 0 |
| 14 | Arizona | 0 |
| 14 | Arkansas | 0 |
| 14 | Connecticut | 0 |
| 14 | Delaware | 0 |
| 14 | District of Columbia | 0 |
| 14 | Georgia | 0 |
| 14 | Hawaii | 0 |
| 14 | Iowa | 0 |
| 14 | Kansas | 0 |
| 14 | Kentucky | 0 |
| 14 | Louisiana | 0 |
| 14 | Maine | 0 |
| 14 | Maryland | 0 |
| 14 | Massachusetts | 0 |
| 14 | Michigan | 0 |
| 14 | Minnesota | 0 |
| 14 | Missouri | 0 |
| 14 | Montana | 0 |
| 14 | Nebraska | 0 |
| 14 | Nevada | 0 |
| 14 | New Hampshire | 0 |
| 14 | New Jersey | 0 |
| 14 | New Mexico | 0 |
| 14 | New York | 0 |
| 14 | North Carolina | 0 |
| 14 | North Dakota | 0 |
| 14 | Oregon | 0 |
| 14 | Puerto Rico | 0 |
| 14 | Rhode Island | 0 |
| 14 | South Carolina | 0 |
| 14 | South Dakota | 0 |
| 14 | Tennessee | 0 |
| 14 | Utah | 0 |
| 14 | Vermont | 0 |
| 14 | Virgin Islands | 0 |
| 14 | Virginia | 0 |
| 14 | Washington | 0 |

2017 Employment

PETROLEUM MERCHANT WHOLESALERS

United States Total:

95,633

| | | |
|----|----------------------|--------|
| 1 | Texas | 17,791 |
| 2 | California | 7,623 |
| 3 | Florida | 3,649 |
| 4 | Illinois | 3,430 |
| 5 | Michigan | 3,342 |
| 6 | Pennsylvania | 3,019 |
| 7 | Ohio | 2,912 |
| 8 | New York | 2,702 |
| 9 | Georgia | 2,671 |
| 10 | Louisiana | 2,438 |
| 11 | North Carolina | 2,425 |
| 12 | Indiana | 2,384 |
| 13 | Oklahoma | 2,288 |
| 14 | Kentucky | 2,019 |
| 15 | New Jersey | 1,953 |
| 16 | Missouri | 1,891 |
| 17 | Minnesota | 1,854 |
| 18 | North Dakota | 1,841 |
| 19 | Virginia | 1,832 |
| 20 | Washington | 1,776 |
| 21 | Kansas | 1,688 |
| 22 | Tennessee | 1,685 |
| 23 | Alabama | 1,608 |
| 24 | Colorado | 1,505 |
| 25 | Wisconsin | 1,466 |
| 26 | Massachusetts | 1,297 |
| 27 | Iowa | 1,236 |
| 28 | Arkansas | 1,198 |
| 29 | Arizona | 1,111 |
| 30 | South Carolina | 1,088 |
| 31 | Oregon | 1,081 |
| 32 | Puerto Rico | 1,060 |
| 33 | Maryland | 1,059 |
| 34 | Mississippi | 944 |
| 35 | South Dakota | 874 |
| 36 | New Mexico | 739 |
| 37 | Montana | 732 |
| 38 | Nebraska | 731 |
| 39 | Hawaii | 629 |
| 40 | West Virginia | 606 |
| 41 | Alaska | 576 |
| 42 | Utah | 542 |
| 43 | Wyoming | 510 |
| 44 | Nevada | 499 |
| 45 | Connecticut | 465 |
| 46 | Idaho | 440 |
| 47 | Maine | 429 |
| 48 | New Hampshire | 388 |
| 49 | Vermont | 285 |
| 50 | Delaware | 224 |
| 51 | Virgin Islands | 83 |
| 52 | District of Columbia | 0 |
| 52 | Rhode Island | 0 |

2017 Employment

PIPELINE TRANSPORTATION

United States Total: **49,493**

| | | |
|----|----------------------|--------|
| 1 | Texas | 18,592 |
| 2 | Oklahoma | 2,624 |
| 3 | Louisiana | 2,561 |
| 4 | Pennsylvania | 2,462 |
| 5 | Ohio | 1,990 |
| 6 | California | 1,943 |
| 7 | Colorado | 1,319 |
| 8 | North Dakota | 1,246 |
| 9 | Michigan | 1,229 |
| 10 | West Virginia | 1,219 |
| 11 | Illinois | 1,153 |
| 12 | Kansas | 984 |
| 13 | Mississippi | 914 |
| 14 | Kentucky | 870 |
| 15 | Wyoming | 749 |
| 16 | Minnesota | 733 |
| 17 | Alabama | 642 |
| 18 | Indiana | 517 |
| 19 | Georgia | 507 |
| 20 | Virginia | 433 |
| 21 | Arkansas | 426 |
| 22 | Montana | 418 |
| 23 | New York | 399 |
| 24 | Arizona | 391 |
| 25 | Iowa | 387 |
| 26 | Florida | 383 |
| 27 | Tennessee | 380 |
| 28 | Missouri | 341 |
| 29 | North Carolina | 332 |
| 30 | Wisconsin | 325 |
| 31 | Washington | 268 |
| 32 | Utah | 237 |
| 33 | New Mexico | 234 |
| 34 | Connecticut | 165 |
| 35 | Massachusetts | 139 |
| 36 | Nebraska | 132 |
| 37 | New Jersey | 122 |
| 38 | South Dakota | 89 |
| 39 | Maine | 81 |
| 40 | South Carolina | 78 |
| 41 | Puerto Rico | 37 |
| 42 | Maryland | 28 |
| 43 | Alaska | 0 |
| 43 | Delaware | 0 |
| 43 | District of Columbia | 0 |
| 43 | Hawaii | 0 |
| 43 | Idaho | 0 |
| 43 | Nevada | 0 |
| 43 | New Hampshire | 0 |
| 43 | Oregon | 0 |
| 43 | Rhode Island | 0 |

REPORT METHODOLOGY

All of the data featured in this report is from the U.S. Bureau of Labor Statistics' Quarterly Census of Employment and Wages (QCEW) Series. The data from this source provides the most comprehensive source of industry data at the state level and allows for a true state-by-state comparison using the same data sources. This series collects data from the state unemployment reports, and as a result supplies a census of employment, wage and establishment information.

The data is derived from the most recent data available at the time of publication of the report (April 2018), which includes Q1-Q3 and annualized Q4 data for 2017.

Payroll and wage data was adjusted for inflation to 2017 dollars.

Production data was provided from Drillinginfo.

Throughout the report, data was rounded for ease of use. More detailed data was used to reach all numeric and percentage changes.

Please note establishments are single economic units, usually a single location. Companies often have multiple establishments at multiple locations. This report sometimes uses the term "businesses" to refer to an establishment to facilitate ease of use and understanding.

Definition of the oil and gas industry:

NAICS Codes—

| | |
|--------------|---|
| NAICS 211 | Oil and gas extraction |
| NAICS 213111 | Drilling oil and gas wells |
| NAICS 213112 | Support activities for oil and gas operations |
| NAICS 2212 | Natural gas distribution |
| NAICS 32411 | Petroleum refineries |
| NAICS 32511 | Petrochemical manufacturing |
| NAICS 333132 | Oil and gas field machinery and equipment |
| NAICS 4247 | Petroleum merchant wholesalers |
| NAICS 486 | Pipeline transportation |