



American
Petroleum
Institute

2015-2024

WORKPLACE SAFETY REPORT



This report covers the rates of injuries and illnesses as published by the Bureau of Labor Statistics (BLS) and includes supplemental data from the Pipeline and Hazardous Materials Safety Administration (PHMSA) and the Bureau of Safety and Environmental Enforcement (BSEE).

WORKPLACE SAFETY REPORT

This report compares the safety rates of job-related nonfatal injuries and illnesses of the U.S. Oil and Natural Gas industry with comparable U.S. industries. The U.S. Oil and Natural Gas industry's workplace safety record reflects the industry's commitment to safe and healthy working environments.





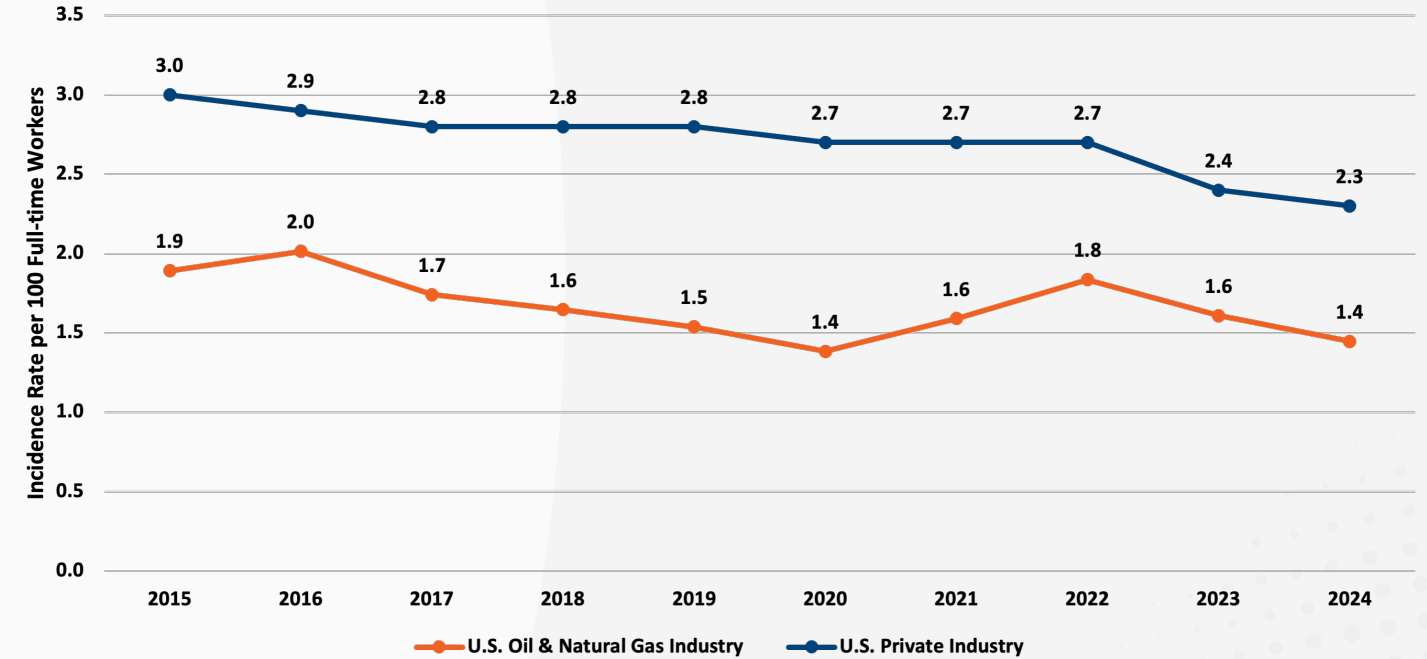
COMPARISON

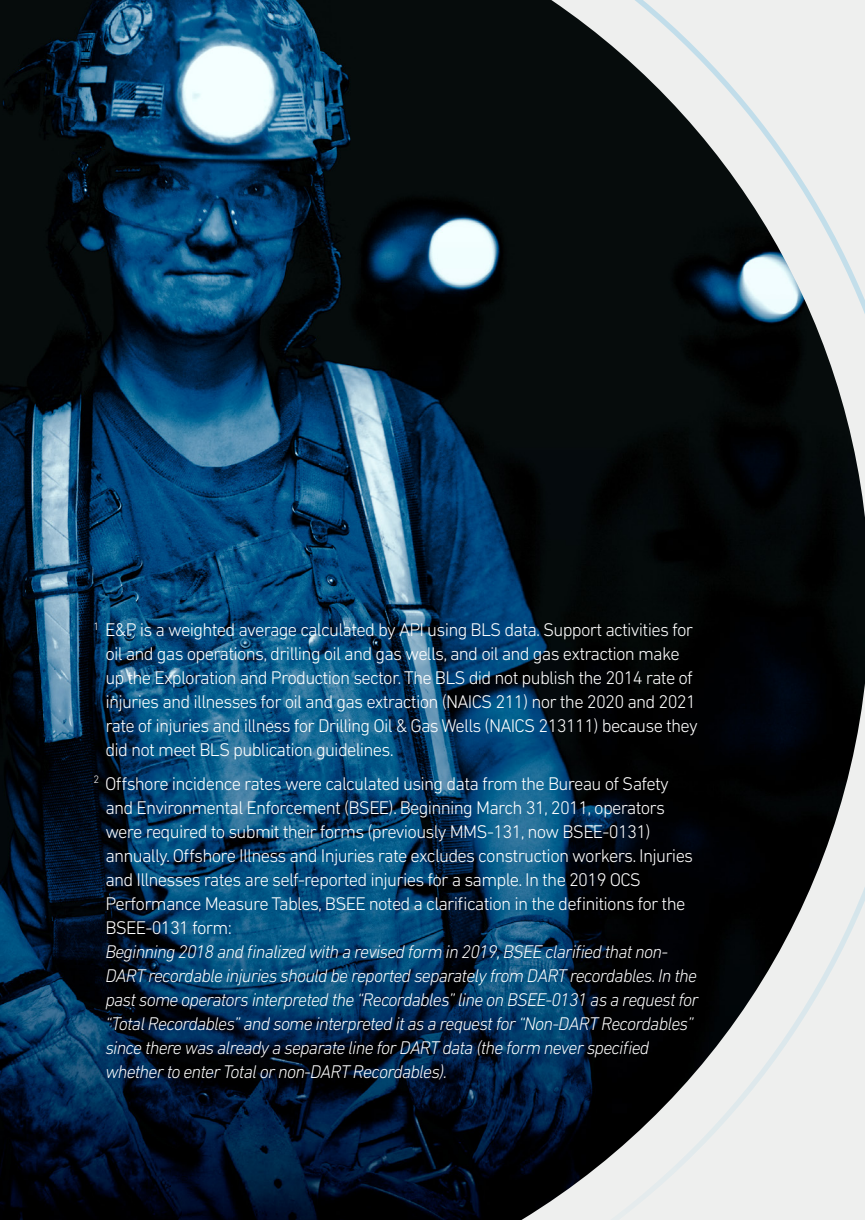
U.S. Oil and Natural Gas Industry vs. U.S. Private Industry

In 2024, the rate of job-related nonfatal injuries and illnesses for the U.S. Oil and Natural Gas industry fell to 1.4 per 100 full-time workers, compared to a rate of 2.3 for the entire U.S. Private industry.

FIGURE 1. INJURIES AND ILLNESSES INCIDENCE RATES

U.S. Oil and Natural Gas Industry vs. U.S. Private Sector (2015-2024)





COMPARISON

U.S. Oil and Natural Gas Exploration and Production¹ vs. U.S. Mining

In 2024, the rate of job-related nonfatal injuries and illnesses among U.S. Oil and Natural Gas exploration and production workers was 0.7 per 100 full-time workers, compared with 1.2 for the U.S. Mining sector and 0.5 for the U.S. Offshore industry² injury and illness data.

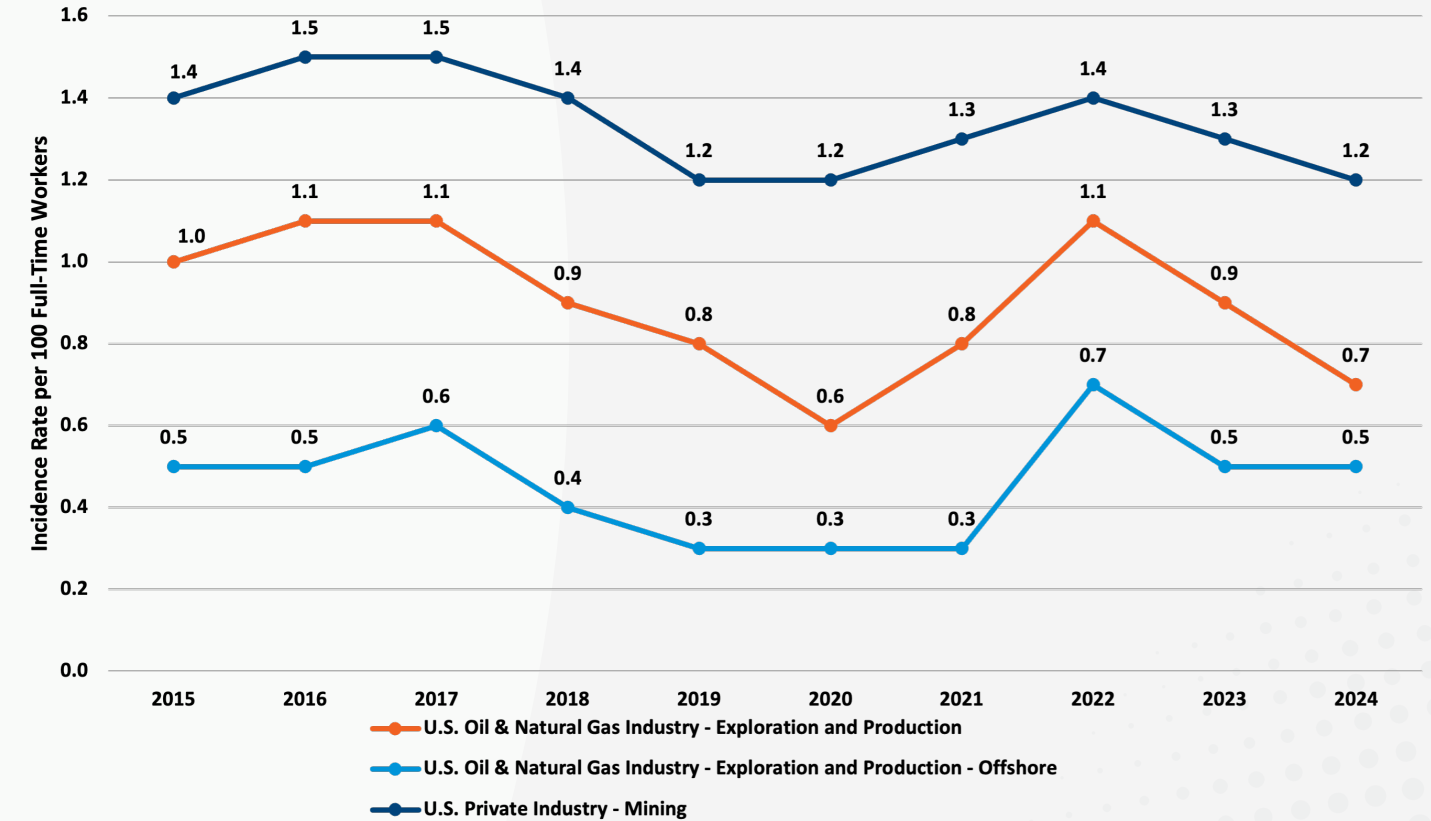
¹ E&P is a weighted average calculated by API using BLS data. Support activities for oil and gas operations, drilling oil and gas wells, and oil and gas extraction make up the Exploration and Production sector. The BLS did not publish the 2014 rate of injuries and illnesses for oil and gas extraction (NAICS 211) nor the 2020 and 2021 rate of injuries and illness for Drilling Oil & Gas Wells (NAICS 213111) because they did not meet BLS publication guidelines.

² Offshore incidence rates were calculated using data from the Bureau of Safety and Environmental Enforcement (BSEE). Beginning March 31, 2011, operators were required to submit their forms (previously MMS-131, now BSEE-0131) annually. Offshore illness and injuries rate excludes construction workers. Injuries and illnesses rates are self-reported injuries for a sample. In the 2019 OCS Performance Measure Tables, BSEE noted a clarification in the definitions for the BSEE-0131 form:

Beginning 2018 and finalized with a revised form in 2019, BSEE clarified that non-DART recordable injuries should be reported separately from DART recordables. In the past some operators interpreted the "Recordables" line on BSEE-0131 as a request for "Total Recordables" and some interpreted it as a request for "Non-DART Recordables" since there was already a separate line for DART data (the form never specified whether to enter Total or non-DART Recordables).

FIGURE 2. INJURIES AND ILLNESSES INCIDENCE RATES

U.S. Oil and Natural Gas Industry Exploration and Production vs. Mining (2015-2024)





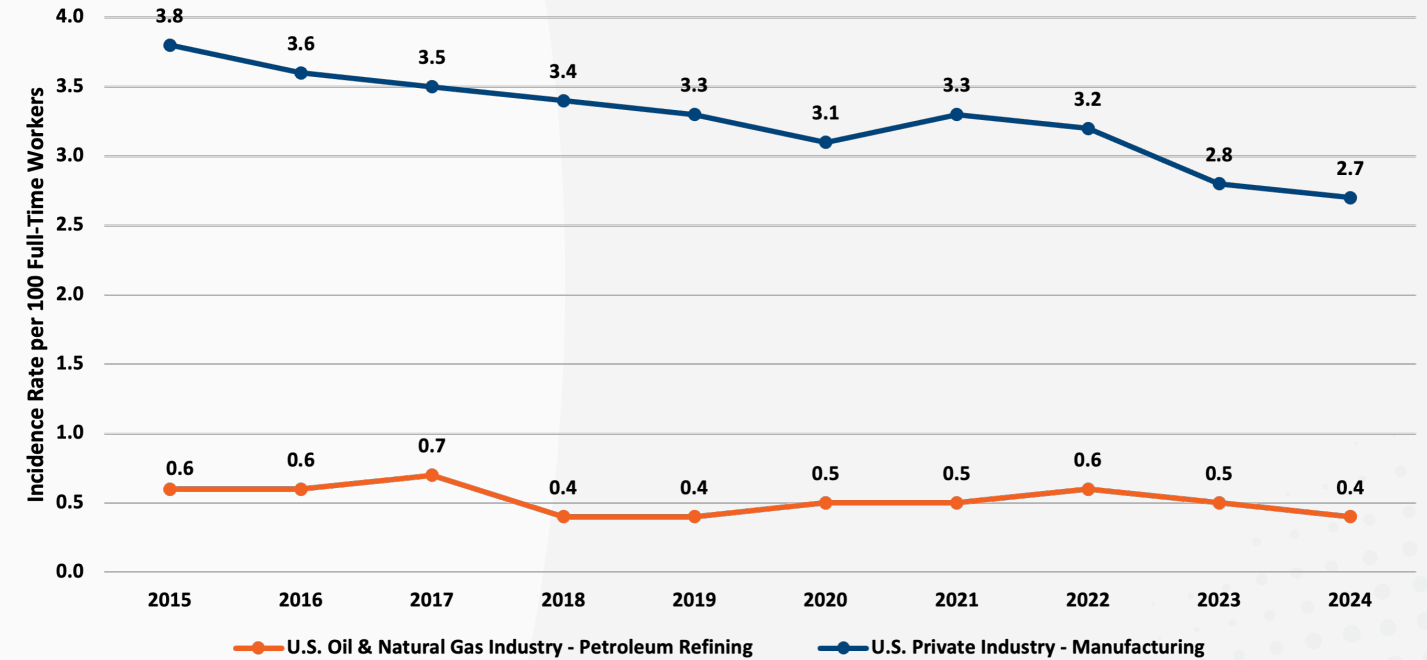
COMPARISON

U.S. Oil and Natural Gas Petroleum Refining vs. U.S. Manufacturing

In 2024, the rate of job-related nonfatal injuries and illnesses for U.S. Oil and Natural Gas petroleum refinery workers was 0.4 per 100 full-time workers, compared to a rate of 2.7 for the U.S. Manufacturing sector.

FIGURE 3. INJURIES AND ILLNESSES INCIDENCE RATES

U.S. Oil and Natural Gas Industry - Petroleum Refining vs. Manufacturing (2015-2024)





COMPARISON

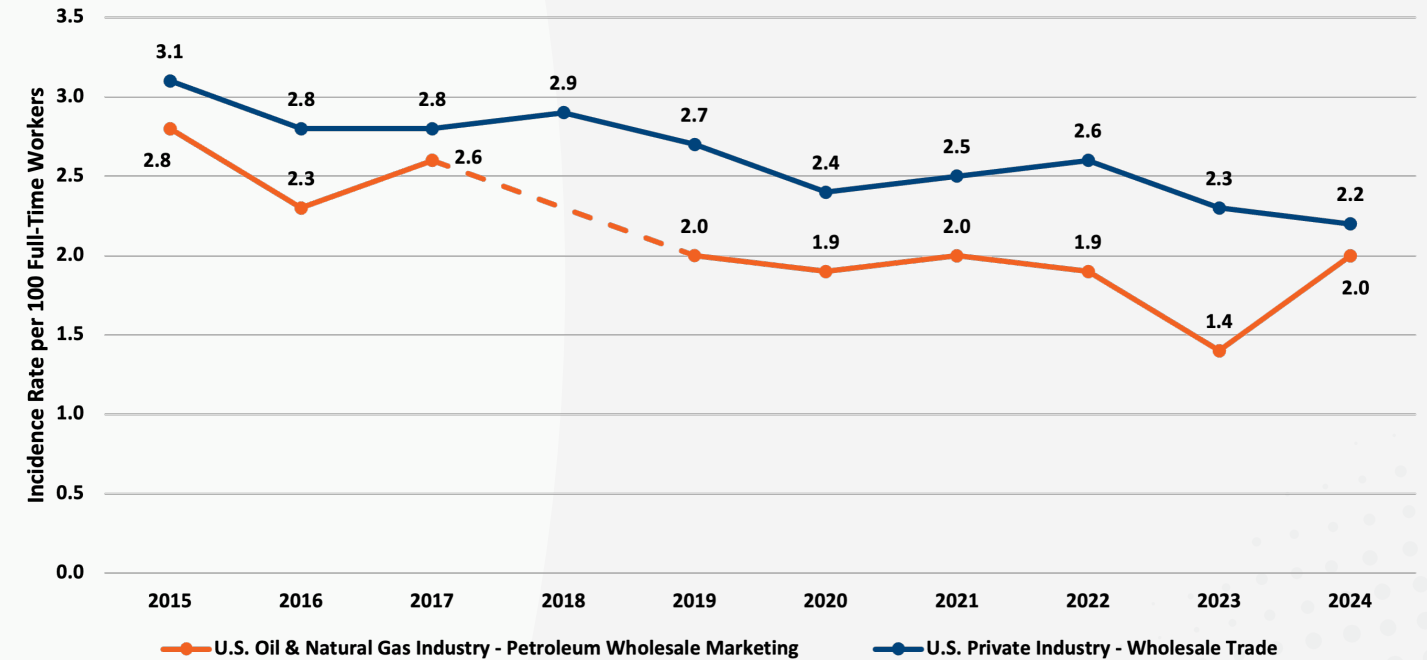
U.S. Oil and Natural Gas Petroleum Wholesale Marketing vs. U.S. Wholesale Marketing

In 2024, the rate of job-related nonfatal injuries and illnesses for U.S. Oil and Natural Gas petroleum wholesale marketing³ workers were 2.0 per 100 full-time workers, compared to a rate of 2.2 for the entire U.S. Wholesale Marketing sector.

³ The BLS did not publish the rate of job-related nonfatal injuries and illnesses for petroleum wholesale marketing (NAICS 4247) for 2018 because it did not meet BLS publication guidelines.

FIGURE 4. INJURIES AND ILLNESSES INCIDENCE RATES

U.S. Oil and Natural Gas Industry - Petroleum Wholesale Marketing vs. U.S. Marketing (2015-2024)





COMPARISON

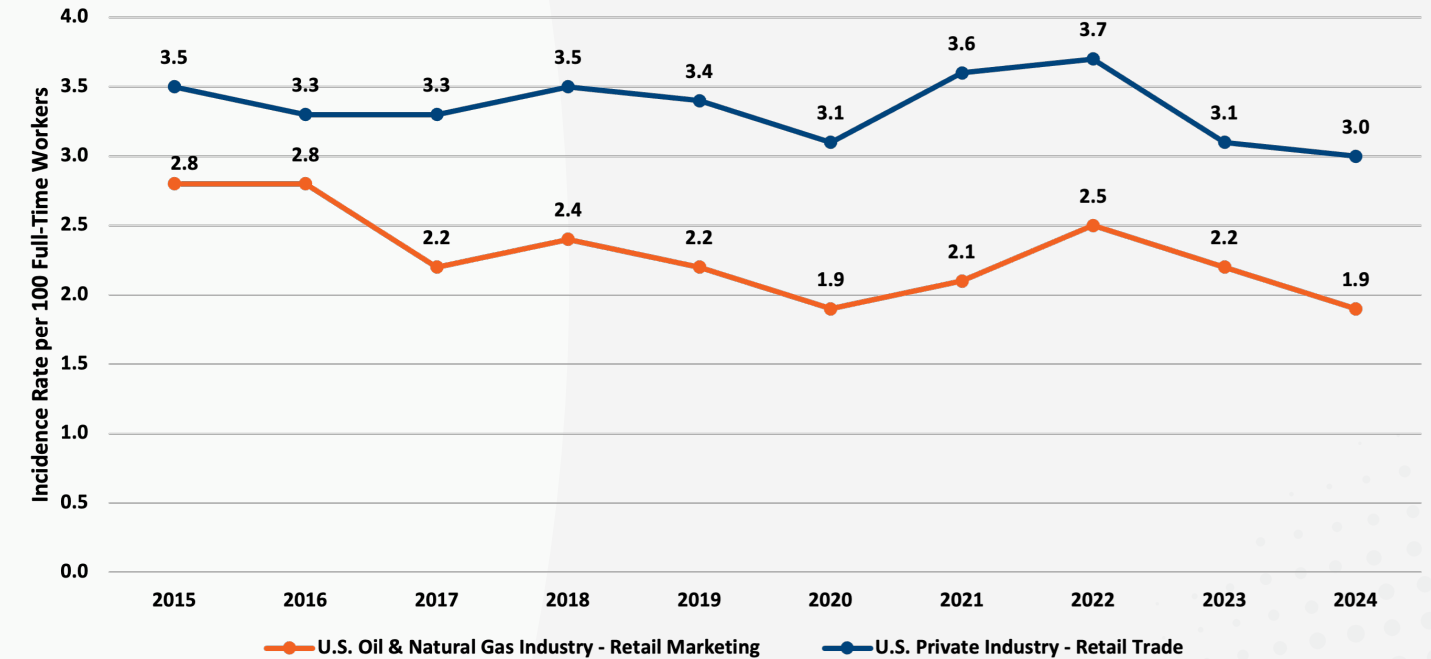
U.S. Oil and Natural Gas Retail Marketing⁴ vs. U.S. Retail Marketing

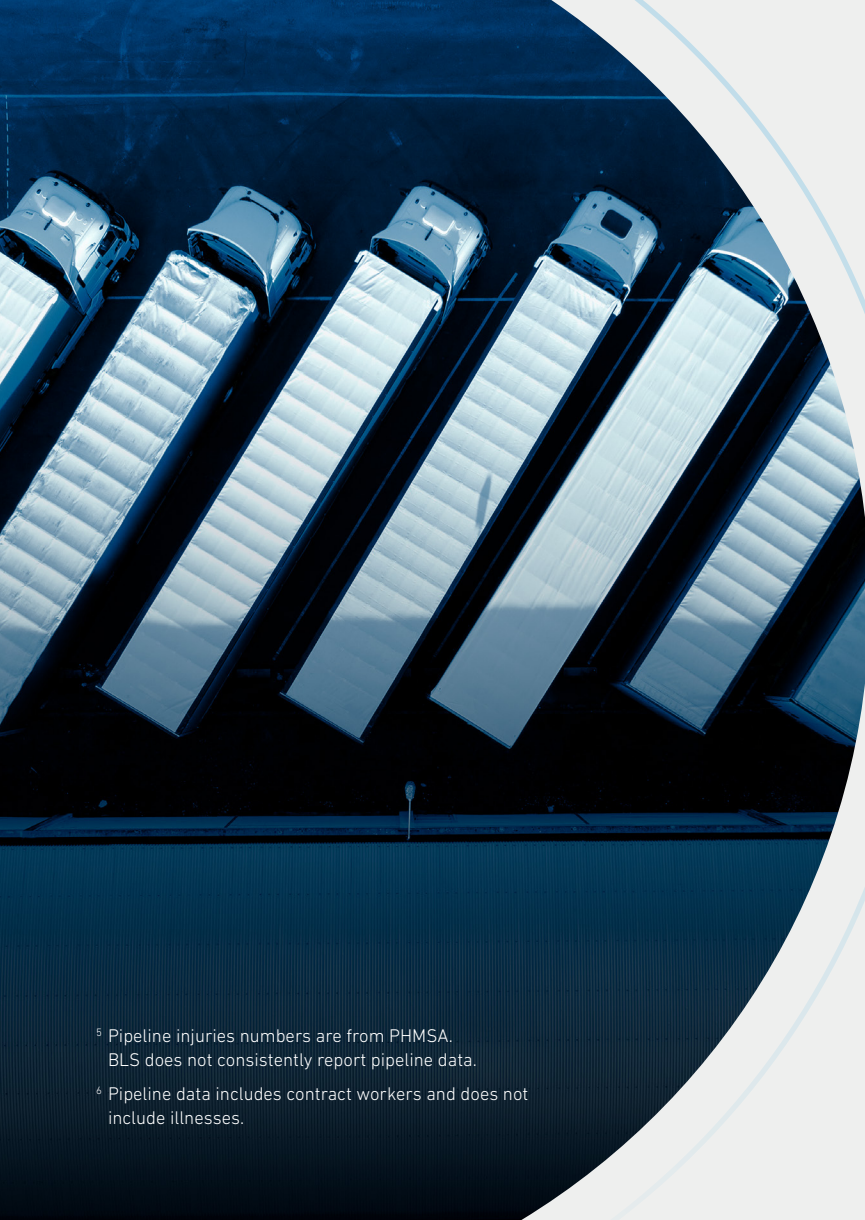
In 2024, the rate of job-related nonfatal injuries and illnesses among U.S. Oil and Natural Gas retail marketing personnel was 1.9 per 100 full-time workers, compared to a rate of 3.0 for the U.S. Retail Marketing sector.

⁴ As of January 1, 2015, NAICS 4471, Gasoline Stations, is partially exempt from OSHA recordkeeping guidelines. For more information, please follow this link: <https://www.osha.gov/recordkeeping/ppt1/RK1exempttable.html>.

FIGURE 5. INJURIES AND ILLNESSES INCIDENCE RATES

U.S. Oil and Natural Gas Industry - Retail Marketing vs. U.S. Retail Marketing (2015-2024)





COMPARISON

U.S. Oil and Natural Gas Pipelines⁵ vs. U.S. Transportation and Warehousing

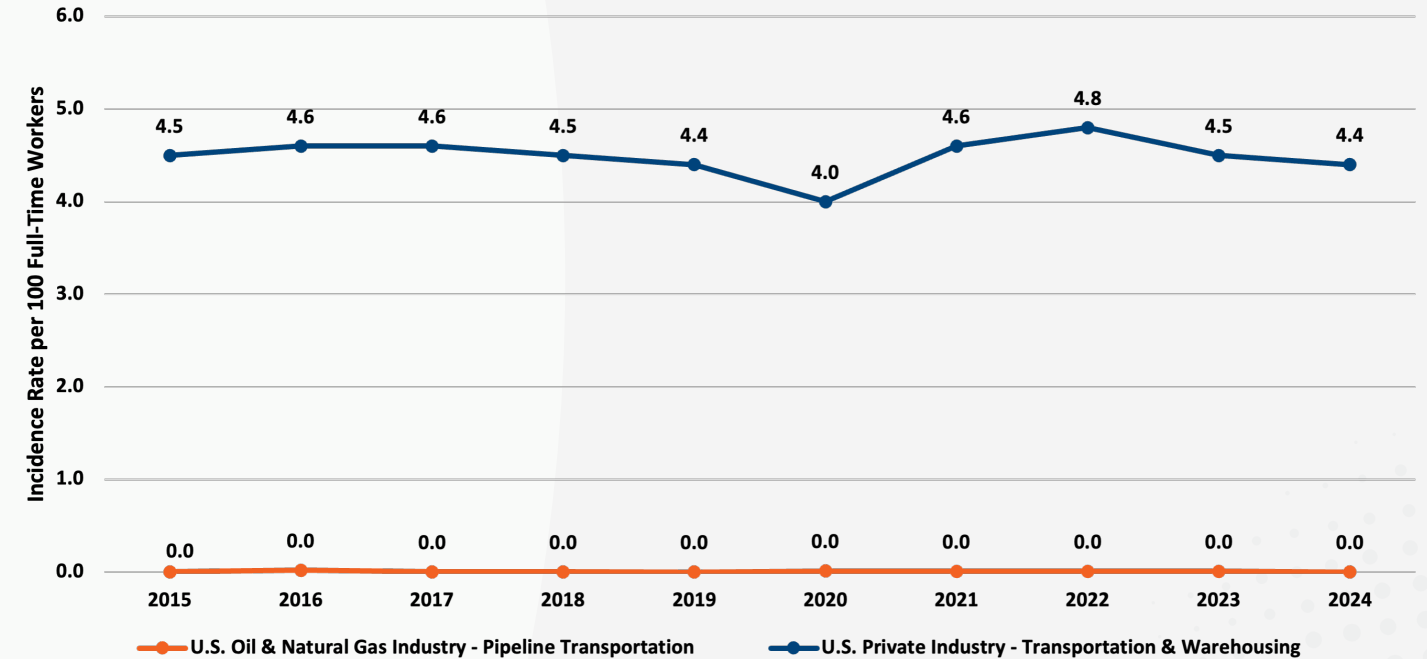
In 2024, the rate of job-related nonfatal injuries among U.S. Oil and Natural Gas pipeline transportation personnel⁶ was 0.0 per 100 full-time workers, compared to a rate of 4.4 rate of job-related nonfatal injuries and illnesses for the U.S. Transportation and Warehousing sector.

⁵ Pipeline injuries numbers are from PHMSA. BLS does not consistently report pipeline data.

⁶ Pipeline data includes contract workers and does not include illnesses.

FIGURE 6. INJURIES AND ILLNESSES INCIDENCE RATES

U.S. Oil and Natural Gas Pipelines vs. U.S. Transportation and Warehousing (2015-2024)





COMPARISON

U.S. Oil and Natural Gas – Natural Gas Distribution vs. U.S. Utilities

In 2024, the rate of job-related nonfatal injuries and illnesses among U.S. Oil and Natural Gas Industry’s natural gas distribution personnel was 1.9 per 100 full-time workers, compared to 1.9 for the U.S. Utilities sector.

FIGURE 7. INJURIES AND ILLNESSES INCIDENCE RATES

U.S. Oil and Natural Gas Industry – Natural Gas Distribution vs. U.S. Utilities (2015-2024)

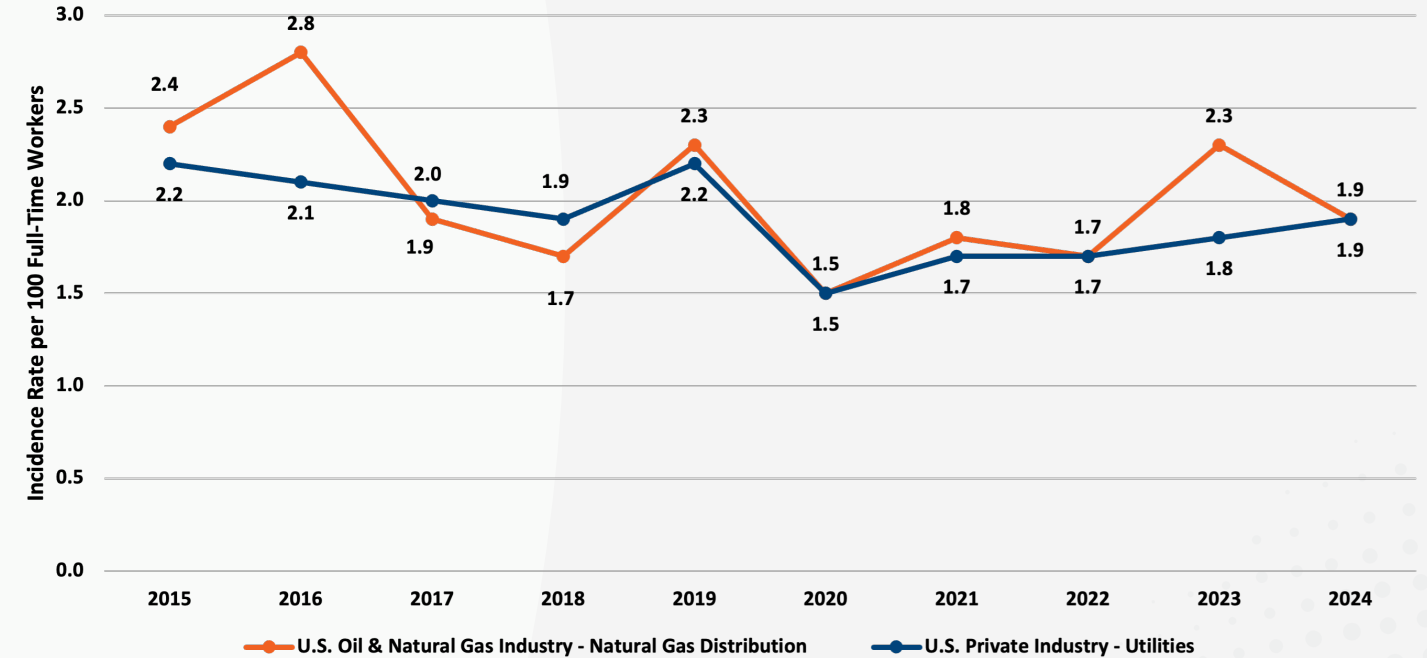


FIGURE 8. U.S. OIL AND NATURAL GAS INDUSTRY SEGMENTS AND COMPARABLE U.S. INDUSTRIES: 2024 JOB-RELATED NONFATAL INJURY AND ILLNESSES INCIDENCE RATES

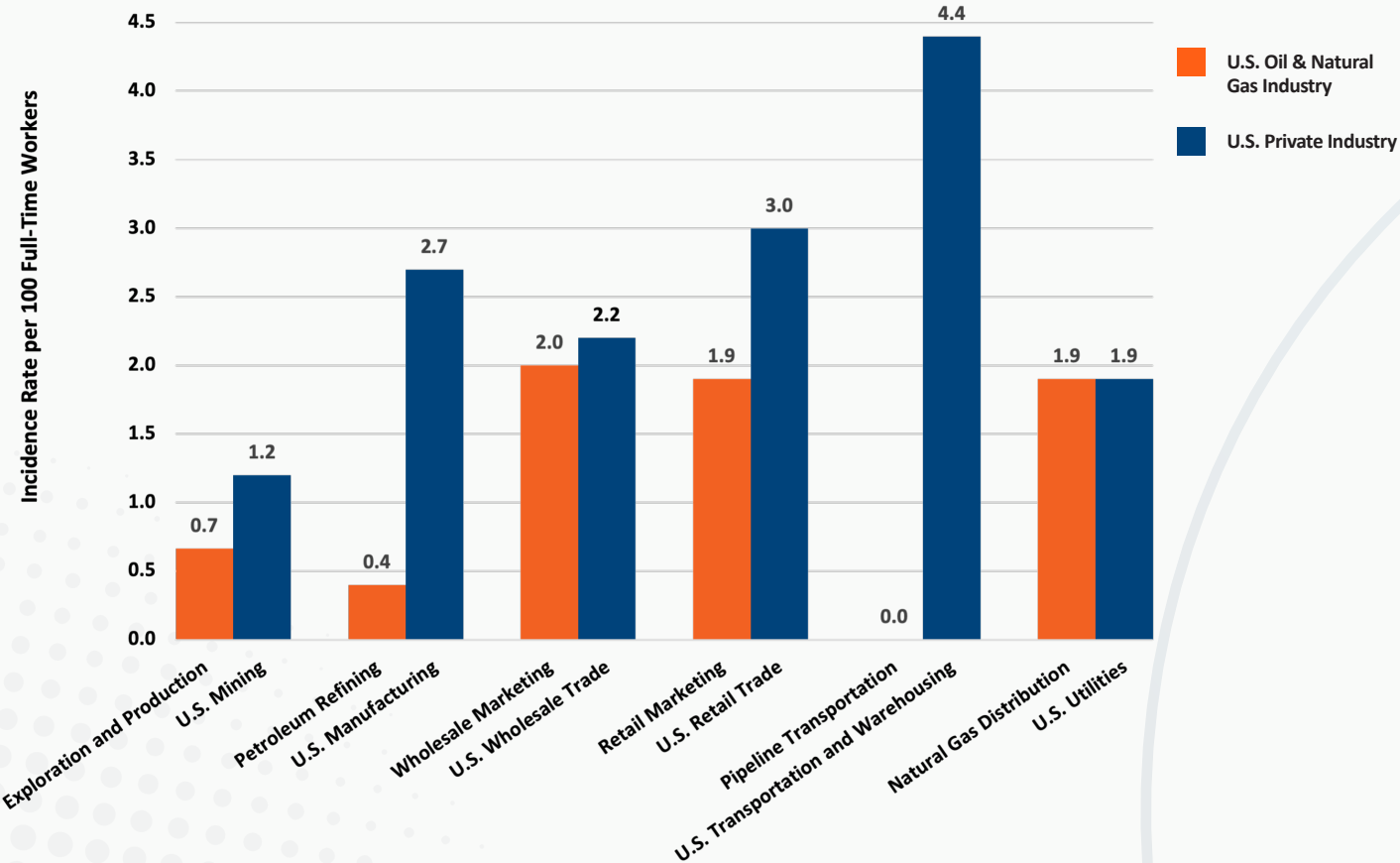


TABLE 1. U.S. OIL AND NATURAL GAS INDUSTRY

Job-Related Nonfatal Injuries and Illnesses: 2015-2024
Per 100 full-time workers.

	YEAR										% CHANGE*	
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2023 - 2024	2015 - 2024
Exploration and Production	1.0	1.1	1.1	0.9	0.8	0.6	0.8	1.1	0.9	0.7	-25%	-36%
Petroleum Refining	0.6	0.6	0.7	0.4	0.4	0.5	0.5	0.6	0.5	0.4	-20%	-33%
Wholesale Marketing	2.8	2.3	2.6	ND	2.0	1.9	2.0	1.9	1.4	2.0	43%	-29%
Retail Marketing	2.8	2.8	2.2	2.4	2.2	1.9	2.1	2.5	2.2	1.9	-14%	-32%
Pipeline Transportation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0%	0%
Natural Gas Distribution	2.4	2.8	1.9	1.7	2.3	1.5	1.8	1.7	2.3	1.9	-17%	-21%
U.S. Oil and Natural Gas Industry	1.9	2.0	1.7	1.6	1.5	1.4	1.6	1.8	1.6	1.4	-10%	-24%

ND = No data available.

*Percentage changes may not sum to 100% or align perfectly with displayed totals due to rounding.

TABLE 2. COMPARABLE U.S. INDUSTRIES

Job-Related Nonfatal Injuries and Illnesses: 2015-2024
Per 100 full-time workers.

	YEAR										% CHANGE*	
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2023 - 2024	2015 - 2024
Mining	1.4	1.5	1.5	1.4	1.2	1.2	1.3	1.4	1.3	1.2	-8%	-14%
Manufacturing	3.8	3.6	3.5	3.4	3.3	3.1	3.3	3.2	2.8	2.7	-4%	-29%
Wholesale Trade	3.1	2.8	2.8	2.9	2.7	2.4	2.5	2.6	2.3	2.2	-4%	-29%
Retail Trade	3.5	3.3	3.3	3.5	3.4	3.1	3.6	3.7	3.1	3.0	-3%	-14%
Transportation and Warehousing	4.5	4.6	4.6	4.5	4.4	4.0	4.6	4.8	4.5	4.4	-2%	-2%
Utilities	2.2	2.1	2.0	1.9	2.2	1.5	1.7	1.7	1.8	1.9	6%	-14%
U.S. Private Sector	3.0	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.4	2.3	-4%	-23%

*Percentage changes may not sum to 100% or align perfectly with displayed totals due to rounding.

TABLE 3. U.S. OIL AND NATURAL GAS INDUSTRY

Job-Related Nonfatal Injuries and Illnesses: 2015-2024
Percent Relative Standard Error.

*Percent relative standard error is a measure of sampling error and is one of the measures that the BLS uses for reliability of survey estimates.

	YEAR									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oil & Gas Extraction [NAICS 211]	15.4	22.2	26.7	28.4	14.6	25.9	23.7	17.3	22.6	ND
Drilling Oil & Gas Wells [NAICS 213111]	11.9	18.4	13.1	15.3	20.5	ND	ND	30.5	22.1	12.1
Support Activities for Oil & Gas Operations [NAICS 213112]	11.1	14.4	11.4	13.5	14.2	13.1	15.8	13.7	11.6	14.2
Natural Gas Distribution [NAICS 2212]	10.6	5.6	8.8	12.9	7.2	7.5	8.2	9.3	7.7	7.4
Petroleum Refineries [NAICS 32411]	10.9	15.4	15.3	14.5	11.8	11.7	14.4	15.8	13.0	11.1
Petroleum Wholesale Trade [NAICS 4247]	13.5	20.6	14.7	ND	17.7	19.7	17.9	15.9	13.1	15.5
Gasoline Stations [NAICS 447]	9.7	8.1	9.7	8.4	8.3	6.5	6.7	6.7	6.5	5.8

ND = No data available.

TABLE 4. COMPARABLE U.S. INDUSTRIES

Job-Related Nonfatal Injuries and Illnesses: 2015-2024

Percent Relative Standard Error.

**Percent relative standard error is a measure of sampling error and is one of the measures that the BLS uses for reliability of survey estimates.*

	YEAR									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
U.S. Private Sector	0.5	0.6	0.5	0.5	0.6	0.5	0.4	0.5	0.5	0.5
Mining [NAICS 21]	4.4	5.7	5.2	5.7	5.6	4.6	4.6	5.3	4.6	4.5
Utilities [NAICS 221]	5.7	4.3	5.3	6.3	6.2	4.5	5.0	4.9	4.2	4.1
Manufacturing [NAICS 31-33]	0.8	0.8	0.8	0.9	1.0	0.8	0.7	0.8	0.8	0.8
Wholesale Trade [NAICS 42]	2.2	2.5	2.7	2.6	2.7	2.2	2.0	2.0	2.0	2.1
Retail Trade [NAICS 44-45]	1.2	1.2	1.2	1.3	1.2	1.0	1.0	1.1	1.1	1.0
Transportation and Warehousing [NAICS 48-49]	1.5	1.5	1.6	1.6	1.4	1.3	1.2	1.2	1.1	1.1

NON-COMPARABLE INDUSTRIES

An in-depth look into the safety of six other industries demonstrates that the U.S. Oil and Natural Gas industry is generally safer than industries of similar characteristics. In this report, the rate of job-related nonfatal injuries and illnesses of the U.S. Oil and Natural Gas industry was compared to the following industries: Logging [NAICS 1133], Agriculture and Forestry Support Activities [NAICS 115], Water Transportation [NAICS 483], Truck Transportation [NAICS 484], and Waste Management and Remediation Services [NAICS 562].





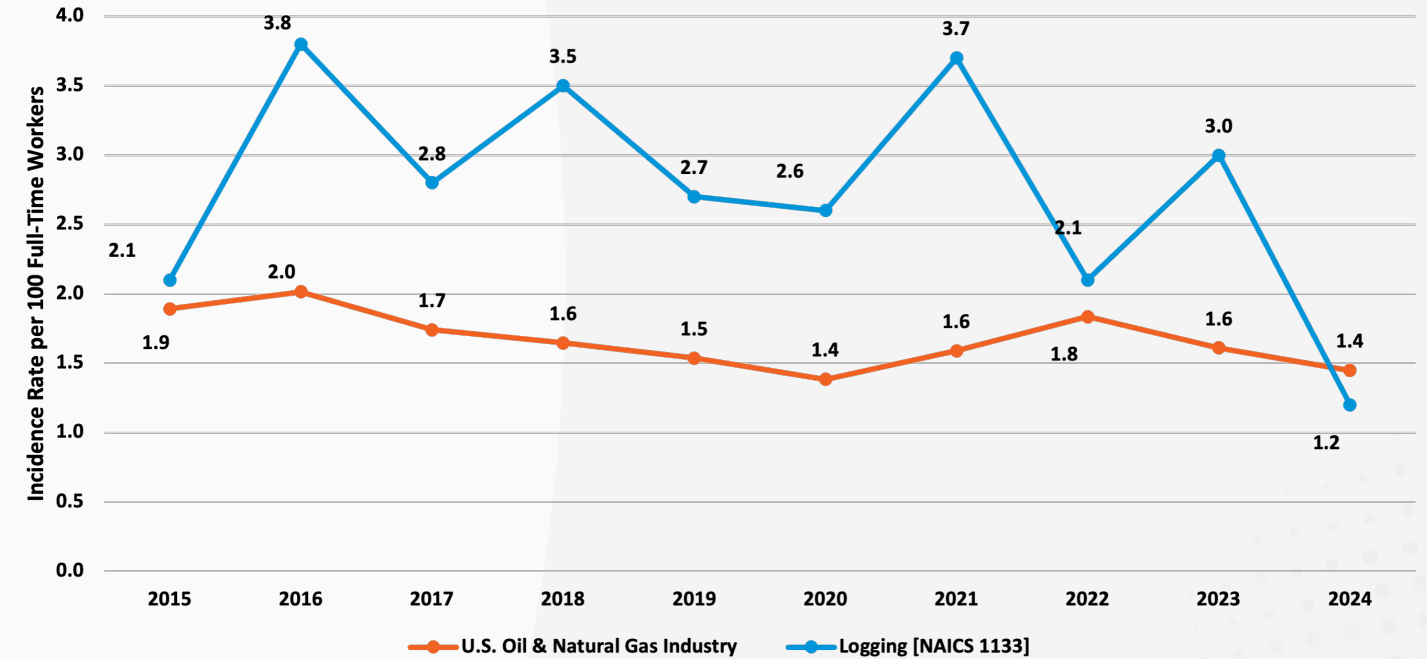
COMPARISON

U.S. Oil and Natural Gas Industry vs. Logging Industry

In 2024, the rate of job-related nonfatal injuries and illnesses for the Logging industry was 1.2 per 100 full-time workers compared to 1.4 for the U.S. Oil and Natural Gas industry.

FIGURE 9. INJURIES AND ILLNESSES INCIDENCE RATES

U.S. Oil and Natural Gas Industry vs. Logging Industry (2015-2024)





COMPARISON

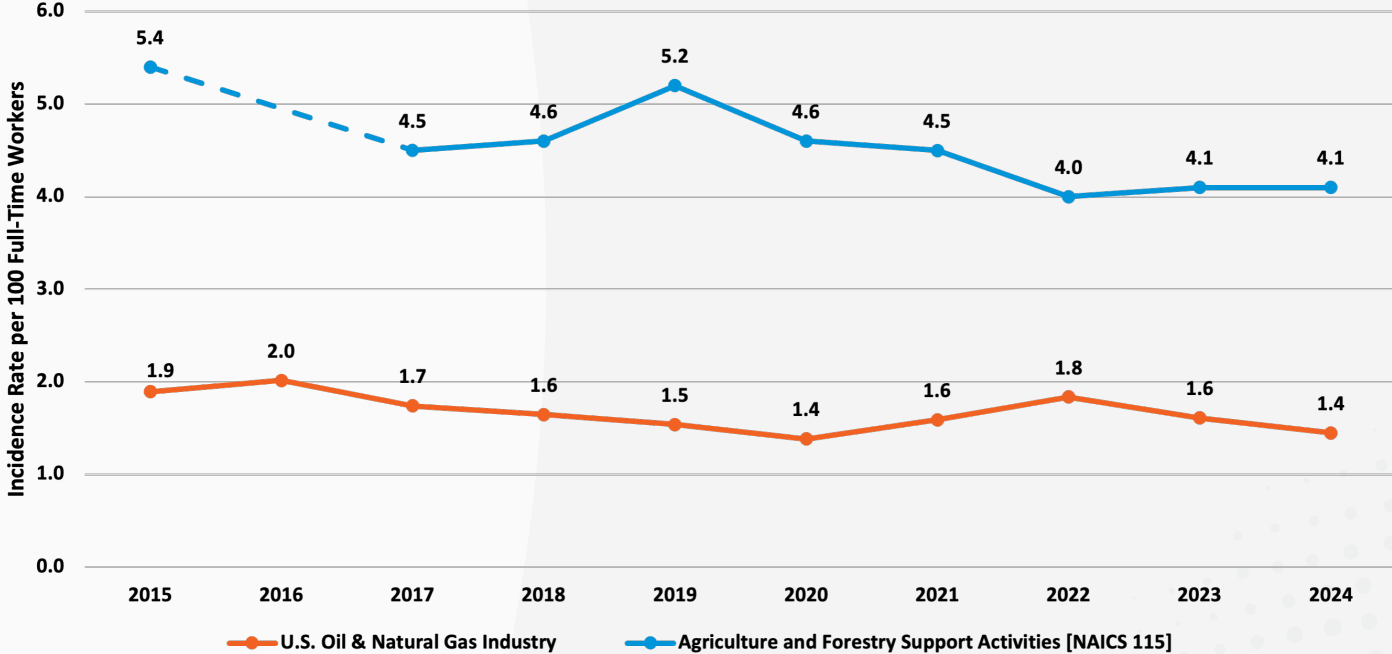
U.S. Oil and Natural Gas Industry vs. Agriculture and Forestry Support Activities⁷ Industry

In 2024, the rate of job-related nonfatal injuries and illnesses for the Agriculture and Forestry Support Activities industry was 4.1 per 100 full-time workers compared to 1.4 for the U.S. Oil and Natural Gas industry.

⁷ The BLS did not publish the rate of job-related nonfatal injuries and illnesses for the Agriculture and Forestry Support Activities industry (NAICS 115) for 2016 because it did not meet BLS publication guidelines.

FIGURE 10. INJURIES AND ILLNESSES INCIDENCE RATES

U.S. Oil and Natural Gas Industry vs. Agriculture and Forestry Support Activities Industry (2015-2024)





COMPARISON

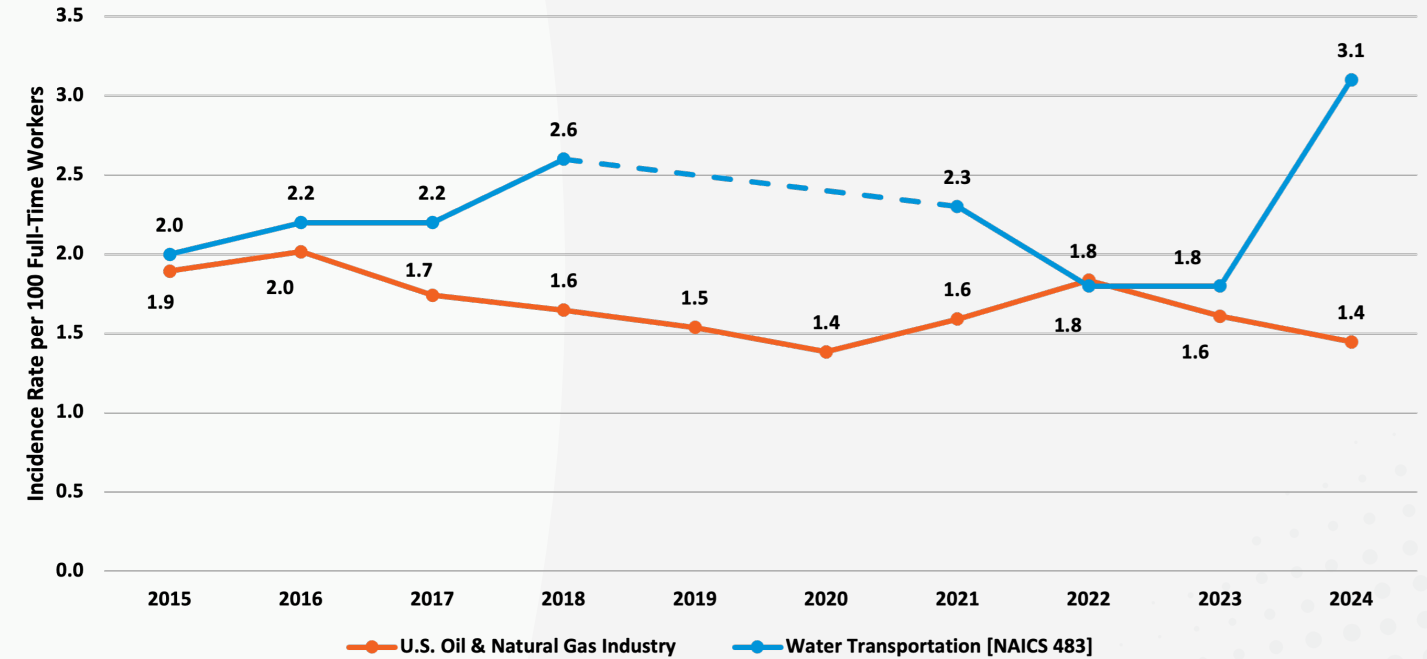
U.S. Oil and Natural Gas Industry vs. Water Transportation Industry⁸

In 2024, the rate of job-related nonfatal injuries and illnesses for the Water Transportation industry was 3.1 per 100 full-time workers, compared with 1.4 for the U.S. Oil and Natural Gas industry.

⁸ The BLS did not publish the rate of job-related nonfatal injuries and illnesses for the Water Transportation industry (NAICS 483) for 2019 and 2020 because they did not meet BLS publication guidelines.

FIGURE 11. INJURIES AND ILLNESSES INCIDENCE RATES

U.S. Oil and Natural Gas Industry vs. Water Transportation Industry (2015-2024)





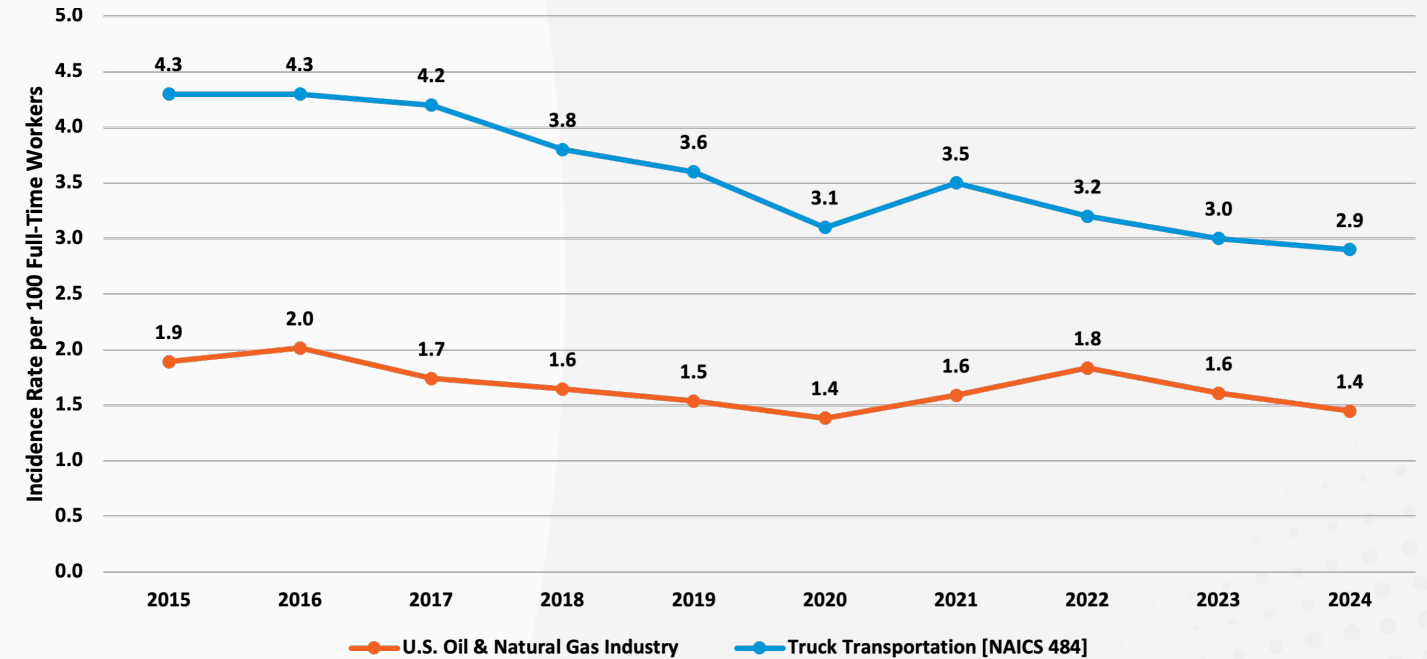
COMPARISON

U.S. Oil and Natural Gas Industry vs. Truck Transportation Industry

In 2024, the rate of job-related nonfatal injuries and illnesses for the Truck Transportation industry was 2.9 per 100 full-time workers compared to 1.4 for the U.S. Oil and Natural Gas industry.

FIGURE 12. INJURIES AND ILLNESSES INCIDENCE RATES

U.S. Oil and Natural Gas Industry vs. Truck Transportation Industry (2015-2024)





COMPARISON

U.S. Oil and Natural Gas Industry vs. Waste Management and Remediation Services Industry

In 2024, the rate of job-related nonfatal injuries and illnesses for the Waste Management and Remediation Services industry was 3.5 per 100 full-time workers compared to 1.4 for the U.S. Oil and Natural Gas industry.

FIGURE 13. INJURIES AND ILLNESSES INCIDENCE RATES

U.S. Oil and Natural Gas Industry vs. Waste Management and Remediation Services Industry (2015-2024)

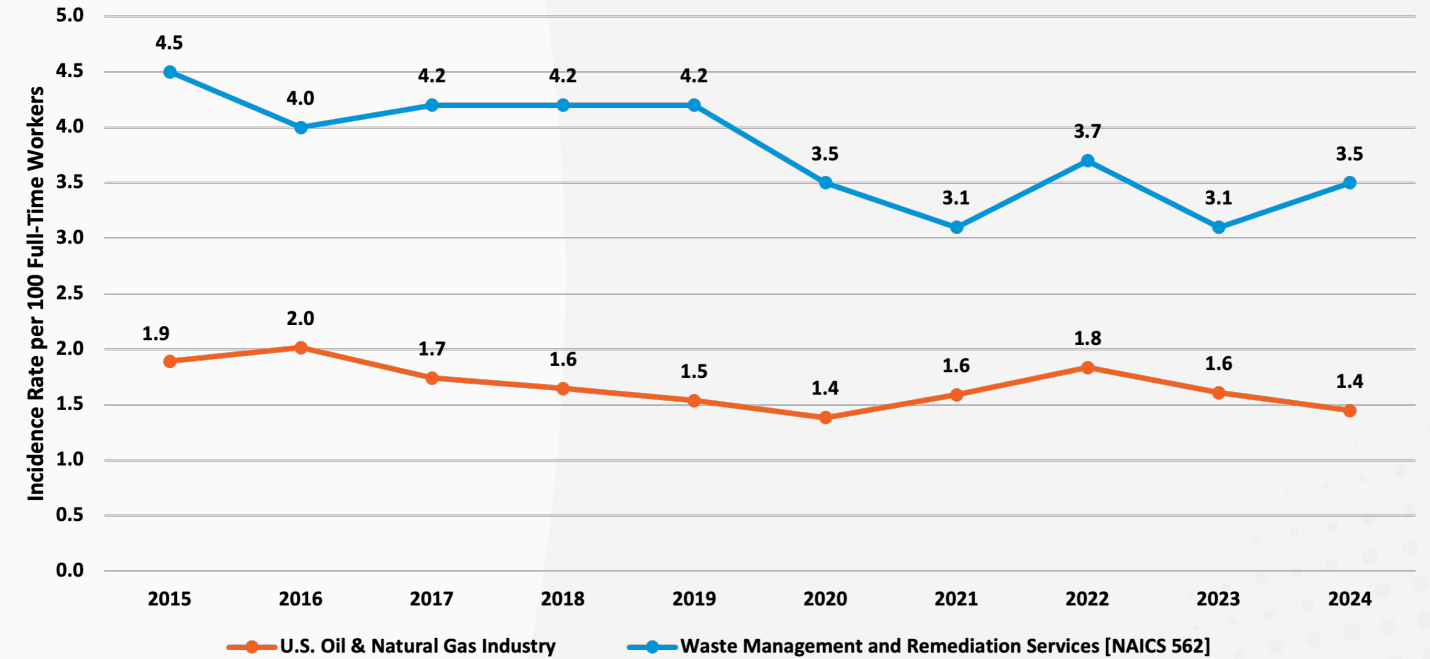


TABLE 5. JOB-RELATED NONFATAL INJURIES AND ILLNESSES

Select U.S. Industries: 2015-2024

Per 100 full-time workers.

	YEAR										% CHANGE*	
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2023 - 2024	2015 - 2024
Logging [NAICS 1133]	2.1	3.8	2.8	3.5	2.7	2.6	3.7	2.1	3.0	1.2	-60%	-43%
Agriculture and Forestry Support Activities [NAICS 115]	5.4	ND	4.5	4.6	5.2	4.6	4.5	4.0	4.1	4.1	0%	-24%
Water Transportation [NAICS 483]	2.0	2.2	2.2	2.6	ND	ND	2.3	1.8	1.8	3.1	72%	55%
Truck Transportation [NAICS 484]	4.3	4.3	4.2	3.8	3.6	3.1	3.5	3.2	3.0	2.9	-3%	-33%
Waste Management and Remediation Services [NAICS 562]	4.5	4.0	4.2	4.2	4.2	3.5	3.1	3.7	3.1	3.5	13%	-22%
U.S. Oil and Natural Gas Industry	1.9	2.0	1.7	1.6	1.5	1.4	1.6	1.8	1.6	1.4	-13%	-26%

ND = No data available.

*Percentage changes may not sum to 100% or align perfectly with displayed totals due to rounding.

ABOUT THIS REPORT

This report is based on information from the U.S. Bureau of Labor Statistics' (BLS) Survey of Occupational Injuries and Illnesses (SOII), the Bureau of Safety and Environmental Enforcement's (BSEE) OCS Performance Measure Tables, as well as the U.S. Department of Transportation Pipeline Hazardous Materials Safety Administration's (PHMSA) Accident and Incident Data. The SOII is a Federal and State program in which employer reports are collected from the private sector. It excludes the self-employed; farms with fewer than 11 employees; private household workers; volunteers; Federal government agencies.

The annual SOII provides estimates of the number and frequency (incidence rates) of job-related nonfatal injuries and illnesses based on logs required to be kept by private industry employers throughout the year. These records reflect not only the year's injuries and illnesses experience, but also the employers' understanding of which cases are work-related under recordkeeping requirements published by the

Occupational Safety and Health Administration (OSHA), U.S. Department of Labor.

The pipeline incidence rates in this report were calculated by dividing the number of injuries reported to PHMSA by the total hours worked by all employees during a calendar year. The offshore incidence numbers were calculated by dividing the number of injuries reported to BSEE by the total hours reported to BSEE.

For the 2014 data, BLS stopped publishing the employment numbers in Table 1. Incidence rates of nonfatal occupational injuries and illnesses by industry and case types, YEAR. As a result, for the 2014-2018 data, the employment numbers and hours were derived by 'reverse engineering' i.e., calculating the employment numbers using the published rates, injuries based on 2,000 hours. The employment numbers are an annual average aggregate.

For the 2019 data, BLS began publishing total hours worked figures in Table 3. Number of hours worked

and percent relative standard errors - detailed industry level. Employment numbers are calculated by dividing the hours worked figures by 2,000 hours.

The North American Industry Classification System (NAICS) is the industry classification system used by the statistical agencies of the United States. It is the first economic classification system to be constructed based on a single economic concept. Establishments that use the same or similar processes to produce goods or services are grouped together. It was developed jointly by the United States, Canada, and Mexico, and reflects the structure of today's economy in these three countries, including the emergence and growth of the service sector and new and advanced technologies. The 2014-2018 surveys utilized the 2012 NAICS Manual, while the 2019-2021 surveys utilized the 2017 NAICS Manual. Source data for 2022-2023 surveys utilized a mix of 2017 and 2022 NAICS Manuals.

DEFINITIONS

FULL-TIME WORKER:

For the purposes of this report, the equivalent of someone who works 40 hours per week for 50 weeks a year or 2,000 hours per year. Thus, two people working 1,000 hours apiece count as one full-time worker.

NONFATAL INJURY OR ILLNESS:

A nonfatal job-related injury or illness is an abnormal condition or disorder that results in days away from work, restricted work, or transfer to another job, medical treatment beyond first aid, or loss of consciousness. Injuries include cases such as, but not limited to, a cut, fracture, sprain, or amputation. Illnesses include both acute and chronic illnesses, such as, but not limited to, skin disease, respiratory disorder, or poisoning.



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