



DEATH ON THE JOB

THE TOLL OF NEGLECT

**A NATIONAL AND
STATE-BY-STATE PROFILE OF
WORKER SAFETY AND HEALTH
IN THE UNITED STATES**

28TH EDITION • APRIL 2019

AFL-CIO



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EXECUTIVE SUMMARY

This 2019 edition of “Death on the Job: The Toll of Neglect” marks the 28th year the AFL-CIO has produced a report on the state of safety and health protections for America’s workers.

More than 594,000 workers now can say their lives have been saved since the passage of the Occupational Safety and Health Act of 1970, which promised workers in this country the right to a safe job. The Obama administration had a strong record on improving working conditions—strengthening enforcement, issuing key safety and health standards, and improving anti-retaliation protections and other rights for workers.

With the election of President Trump, the political landscape shifted dramatically, threatening many of these gains. Trump has moved aggressively on his deregulatory agenda, repealing and delaying job safety and other rules, and proposing deep cuts in the budget, and the elimination of worker safety and health training and other programs. There has been no forward action on critical safety and health problems, including workplace violence, silica in mining and exposure to toxic chemicals.

With Democrats now in the majority in the House of Representatives, there are new opportunities to oppose anti-worker attacks, hold the Trump administration accountable and to move forward to win stronger worker safety and health protections.

Nearly 50 years after the passage of the nation’s job safety laws, the toll of workplace injury, illness and death remains too high, and too many workers remain at serious risk. There is much more work to be done.

The High Toll of Job Injuries, Illnesses and Deaths

In 2017:

- 275 workers died each day from hazardous working conditions.
- 5,147 workers were killed on the job in the United States.
- An estimated 95,000 workers died from occupational diseases.
- The job fatality rate decreased to 3.5 per 100,000 workers from 3.6 per 100,000 the previous year.
- The job fatality rate increased in mining, transportation and warehousing, health care and social assistance and the federal government, and declined in agriculture, construction and manufacturing.
- Employers reported nearly 3.5 million work-related injuries and illnesses.
- Under-reporting is widespread—the true toll of work-related injuries and illnesses is 7.0 million to 10.5 million each year.

States with the highest fatality rates in 2017 were:

- Alaska (10.2 per 100,000 workers)
- North Dakota (10.1 per 100,000 workers)
- Wyoming (7.7 per 100,000 workers)

- West Virginia (7.4 per 100,000 workers)
- South Dakota (7.3 per 100,000 workers)

Workplace violence remains a serious and growing problem:

- Workplace violence deaths decreased to 807 in 2017, but violence-related injuries increased to nearly 29,000 lost-time injuries.
- Workplace violence is the third-leading cause of workplace death.
- 458 worker deaths were workplace homicides.
- Women workers are at greater risk of violence than men; they suffered two-thirds of the lost-time injuries related to workplace violence.
- There is no federal OSHA standard to protect workers from workplace violence; the Trump administration has sidelined an OSHA workplace violence standard.

Latino and immigrant workers' safety and health has improved over the last decade, but the risk to these workers still is greater than other workers:

- The Latino fatality rate was 3.7 per 100,000 workers, higher than the national average.
- The Latino fatality rate is the same as the previous year, even though the overall national fatality rate declined from 3.6 to 3.5.
- Deaths among all Latino workers increased in 2017: 903 deaths, compared with 879 in 2016. Deaths among Latino immigrant workers declined to 568 from 588.

Older workers are at high risk. In 2017:

- 37% of all worker fatalities occurred in those ages 55 or older, with 1,930 deaths, an increase from 36% and 1,848 deaths in 2016.
- Workers 65 or older have nearly three times the risk of dying on the job as other workers, with a fatality rate of 10.3 per 100,000 workers.

The construction, transportation and agriculture industries (private sector) remain very dangerous:

- 971 construction workers were killed in 2017, the highest number in any sector. The number of construction deaths decreased (from 991); the rate decreased from 10.1 per 100,000 workers in 2016 to 9.5 in 2017.
- 882 transportation and warehousing workers were killed in 2017. The fatality rate increased from 14.3 per 100,000 workers in 2016 to 15.1 in 2017, the second highest of any major industry sector.
- Agriculture, forestry, fishing and hunting was the most dangerous industry sector, with a fatality rate of 23.0 per 100,000 workers; 581 workers were killed in these industries.

The mining and extraction industries remain dangerous; safety and health has improved but the trend may be reversing:

- There were 28 deaths in coal, metal and nonmetal mines in 2017, including a significant increase in coal mine deaths (from eight to 15).
- Preliminary 2018 data report 12 coal mine fatalities and 15 fatalities in metal and nonmetal mining.
- The fatality rate for the overall mining sector, including oil and gas extraction,

- increased in 2017 to 12.9 per 100,000 workers, nearly four times the national average.
- There were 81 deaths in oil and gas extraction in 2017, accounting for 72% of the fatal work injuries in the mining sector.

The cost of job injuries and illnesses is enormous—estimated at \$250 billion to \$330 billion a year.

Job Safety Oversight and Enforcement

OSHA resources in FY 2018 still are too few and declining:

- There are only 1,815 inspectors (752 federal and 1,063 state) to inspect the 9.8 million workplaces under the Occupational Safety and Health Act’s jurisdiction.
- The number of OSHA inspectors is at the lowest number since the early 1970s.
- Federal OSHA has enough inspectors to inspect workplaces only once every 165 years.
- State OSHA plans have enough inspectors to inspect workplaces once every 108 years.
- There is one inspector for every 79,262 workers.
- The current OSHA budget amounts to \$3.64 to protect each worker.

OSHA enforcement, strengthened under the Obama administration, largely has been maintained by the Trump administration, but penalties in FY 2018 still are too weak:

- The average penalty for a serious violation was \$3,580 for federal OSHA.
- The average penalty for a serious violation was \$1,985 for OSHA state plans.
- The median penalty for killing a worker was \$7,761 for federal OSHA.
- The median penalty for killing a worker was \$2,700 for OSHA state plans.
- Only 99 worker death cases have been criminally prosecuted under the Occupational Safety and Health Act since 1970.

Regulatory Action: Worker Protections Under Attack

The Obama administration produced a number of significant safety and health rules and left a solid legacy of worker protections in place. Key achievements include standards on silica, beryllium, coal dust and enhanced anti-retaliation protections for workers who report injuries. Political opposition delayed many rules, leaving a long, unfinished agenda of hazards that need prompt action: workplace violence, combustible dust, chemical process safety management, infectious diseases and silica in mining.

The Trump administration launched a major assault on regulatory protections. It has moved aggressively to roll back regulations, block new protections and put agency budgets and programs on the chopping block. Since January 2017, the Trump administration has:

- Repealed OSHA’s rule clarifying an employer’s obligation to keep accurate injury and illness records.
- Repealed a rule that would have required companies to disclose safety and health and labor violations in order to qualify for federal contracts.
- Withdrawn OSHA’s walkaround policy that gave nonunion workers the right to have a representative participate in OSHA inspections.
- Repealed the requirement for large employers to electronically report detailed injury and illness information to OSHA.

- Refused to make public employer injury data reported to OSHA, even though similar data has been posted on OSHA's website for years.
- Proposed to eliminate exposure monitoring and medical exams for construction and maritime workers exposed to beryllium.
- Delayed action on a new OSHA standard on workplace violence.
- Proposed to eliminate worker safety and health training programs, cut coal mine enforcement, eliminate the Chemical Safety Board and slash the budget for job safety research.
- Weakened MSHA's mine examination rule, allowing miners to work in hazardous conditions.
- Refused to address worker exposures to methylene chloride, asbestos and other hazards in implementing the new toxic chemicals control law.

Opportunities to Move Forward

With the election of a Democratic majority in Congress, the political environment for safety and health has greatly improved. There are opportunities to move forward on a pro-worker agenda, including:

- Legislation to update and strengthen the Occupational Safety and Health Act and Mine Safety and Health Act.
- Legislation to require OSHA to issue a workplace violence standard.
- Oversight of the Trump administration's policies and programs.
- Blocking rollbacks in safety and health regulations.
- Increasing the budget and staff for job safety agencies.

Much Work Remains to Be Done

Workers need more job safety and health protection, not less. We call on:

- The Trump administration to stop the attack on workers' rights and protections.
- OSHA and MSHA to fully implement new rules on silica, beryllium, injury reporting/anti-retaliation and coal dust.
- OSHA to issue a workplace violence standard for health care and social service workers. Workplace violence is a growing and serious threat—particularly for women workers and workers in health care and social services. Congress should enact legislation to make sure this is done.
- OSHA and MSHA to develop and issue rules on infectious diseases, combustible dust, chemical safety and silica in mining.
- OSHA to increase attention to the serious safety and health problems faced by Latino, immigrant and aging workers.
- Congress to increase funding and staffing at job safety agencies.
- Congress to pass the Protecting America's Workers Act to extend the Occupational Safety and Health Act's coverage to workers currently excluded, strengthen civil and criminal penalties for violations, enhance antidiscrimination protections, and strengthen the rights of workers, unions and victims.

The nation must renew its commitment to protect workers from injury, disease and death, and make this protection a high priority.

THE STATE OF WORKERS' SAFETY AND HEALTH

This 2019 edition of “Death on the Job: The Toll of Neglect” marks the 28th year the AFL-CIO has produced a report on the state of safety and health protections for America’s workers. This report features national and state information on workplace fatalities, injuries, illnesses, the number and frequency of workplace inspections, penalties, funding, staffing and public employee coverage under the Occupational Safety and Health Act. It also includes information on the state of mine safety and health.

Nearly 50 years ago, in 1970, Congress enacted the OSH Act, promising workers in this country the right to a safe job. More than 594,000 workers now can say their lives have been saved since the passage of the OSH Act.¹ Since that time, workplace safety and health conditions have improved. But too many workers remain at serious risk of injury, illness or death as chemical plant explosions, major fires, construction collapses and other preventable workplace tragedies continue to occur. Workplace violence is a growing threat. Many other workplace hazards kill and disable thousands of workers each year.

In 2017, 5,147 workers lost their lives on the job as a result of traumatic injuries, according to fatality data from the Bureau of Labor Statistics.² Each day in this country, an average of 14 workers die because of job injuries—women and men who go to work, never to return home to their families and loved ones. This does not include those workers who die from occupational diseases, estimated to be 95,000 each year.³ Chronic occupational diseases receive less attention, because most are not detected until years after workers are exposed to toxic chemicals, and occupational illnesses often are misdiagnosed and poorly tracked. All total, on average 275 workers die each day due to job injuries and illnesses.

In 2017, nearly 3.5 million workers across all industries, including state and local government, had work-related injuries and illnesses that were reported by employers, with 2.8 million injuries and illnesses reported in private industry. Due to limitations in the current injury reporting system and widespread under-reporting of workplace injuries, this number understates the problem. The true toll is estimated to be two to three times greater—or 7.0 million to 10.5 million injuries and illnesses a year.

¹ Calculated based on changes in annual fatality rates and employment since 1970. Fatality rate data for 1970 to 1991 is from National Safety Council Accident Facts, 1994. Fatality rate data for 1992 to 2017 is from the Bureau of Labor Statistics, Census of Fatal Occupational Injuries. Annual employment data is from the Bureau of Labor Statistics Current Population Survey.

² U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, 2017, released Dec. 18, 2018.

³ Takala, J., P. Hämmäläinen, K.L. Saarela, L. Yoke Yun, K. Manickam, T. Wee Jin, P. Heng, C. Tjong, L. Guan Kheng, S. Lim and G. Siok Lin (2014), “Global Estimates of the Burden of Injury and Illness at Work in 2012,” *Journal of Occupational and Environmental Hygiene*, 11:5, 326 –337, DOI: [10.1080/15459624.2013.863131](https://doi.org/10.1080/15459624.2013.863131).

The cost of these injuries and illnesses is enormous—estimated at \$250 billion to \$330 billion a year.

During its eight years in office, the Obama administration had a strong track record on worker safety and health, appointing dedicated pro-worker advocates to lead the job safety agencies who returned these programs to their core mission of protecting workers. The Obama administration increased the job safety budget, stepped up enforcement and strengthened workers' rights. Landmark regulations to protect workers from deadly silica dust and coal dust were issued, along with long-overdue rules on other serious safety and health hazards, including beryllium and confined space entry in the construction industry.

With the election of President Trump, the political landscape and direction of the job safety agencies shifted dramatically. President Trump ran on a pro-business, deregulatory agenda, promising to cut regulations by 70%. Since taking office in January 2017, the Trump administration has moved aggressively on its deregulatory agenda. Through executive orders, legislative action, and delays and rollbacks in regulations, the Trump administration has sought to repeal or weaken many Obama administration rules. For the first two years of the administration, with Republicans in control of Congress, there was little oversight and only a limited ability to block these regulatory attacks and rollbacks. As a result, important safety and health protections have been repealed or weakened. There has been little action to address hazards like workplace violence that need attention and new regulation.

Job safety and health enforcement at both the Occupational Safety and Health Administration and the Mine Safety and Health Administration largely has been maintained, with some cutbacks in OSHA inspections involving significant cases and complex hazards. At both agencies, the number of inspectors has declined significantly; at OSHA, the number of job safety inspectors is at its lowest level since the 1970s.

President Trump has proposed cuts in key worker safety and health programs in the budgets for FY 2018, FY 2019 and FY2020, seeking to cut funding for coal mine enforcement; eliminate OSHA's worker safety and health training program and the Chemical Safety Board; and slash the NIOSH job safety research budget by more than 40%. To date, Congress has rejected these proposed cuts.

President Trump nominated corporate officials to head the job safety agencies. David Zatezalo, a coal industry executive from Rhino Industry Partners, was nominated to head the Mine Safety and Health Administration and was confirmed by the Senate on Nov. 15, 2017. Scott Mugno, vice president of safety, sustainability and vehicle maintenance at FedEx Ground, first was nominated to head the Occupational Safety and Health Administration on Nov. 1, 2017, and most recently renominated on Jan. 16, 2019. Due to opposition from Democrats and the slow pace of Senate confirmations, Mugno has yet to be confirmed. Both of these individuals have long experience and involvement with the job safety agencies, and have records of opposing enforcement and regulatory actions.

With the election of a Democratic majority in Congress, the political environment for safety and health has greatly improved. Four months into the 116th Congress, Democrats are moving

aggressively on a pro-worker agenda, introducing progressive legislation and conducting vigorous oversight of the Trump administration's policies and programs. In a divided Congress, it is unlikely that many of these legislative proposals will become law, but in the next two years the foundation can be set for making progress in coming years.

Nearly five decades after the passage of the OSH Act, the toll of workplace injury, disease and death remains too high. There is much more work to be done.

JOB FATALITIES, INJURIES AND ILLNESSES

On average, 14 workers were fatally injured and more than 9,500 workers were injured or made ill each day of 2017. These statistics do not include deaths from chronic occupational diseases, which claim the lives of an estimated 95,000 workers each year.⁴

Job Fatalities

In 2017, there were 5,147 workplace deaths due to traumatic injuries, a slight decrease from the 5,190 deaths reported in 2016.⁵ The rate of fatal job injuries in 2017 also declined slightly from 3.6 per 100,000 workers in 2016 to 3.5 per 100,000 workers in 2017.

The job fatality rate increased in mining, transportation and warehousing, health care and social assistance and the federal government, and declined in agriculture, construction and manufacturing.

Latino workers saw an increase in job deaths in 2017, as did older workers (ages 55 and older). Deaths from workplace violence decreased by 7% (from 866 to 807 deaths) and are now the third-leading cause of job death.

Fatalities by State

Alaska had the highest job fatality rate in 2017, at 10.2 per 100,000 workers, followed by North Dakota (10.1), Wyoming (7.7), West Virginia (7.4), South Dakota (7.3) and Vermont (7.0). New Hampshire, New Jersey and Rhode Island had the lowest state fatality rate (1.6 per 100,000 workers), followed by Connecticut (1.9) and Hawaii (2.2).

From 2016 to 2017, fatality rates increased in 18 states. Tennessee and Missouri experienced a 98% increase, followed by Minnesota (97%), Washington (96%) and Georgia (95%).

Industry, Occupation, Event and Demographic Highlights

In 2017, the construction sector had the largest number of fatal work injuries (971), followed by transportation and warehousing (882) and agriculture, forestry, fishing and hunting (581).

Industry sectors with the highest fatality rates were agriculture, forestry, fishing and hunting (23.0 per 100,000); transportation and warehousing (15.1), mining, quarrying, and oil and gas extraction (12.9) and construction (9.5).

⁴ Takala, 2014.

⁵ BLS, CFOI, 2017.

Within the mining and extractive industries in 2017, BLS reported 81 deaths in oil and gas extraction, an increase from the 63 deaths reported in 2016. According to separate statistics reported by the Mine Safety and Health Administration, in 2017 there were 15 deaths in coal mining, an increase over the eight coal mine deaths in 2016, and 13 deaths in metal and nonmetal mining.⁶ Preliminary data from MSHA for 2018 report 12 coal mine fatalities and 15 fatalities in metal and nonmetal mining.

Transportation and material moving occupations had the highest number of fatalities in 2017, with 1,443 deaths, an increase from 1,388 deaths in 2016, followed by construction and extraction occupations with 965 fatal injuries. The occupations at greatest risk of experiencing work-related fatalities were fishers and related fishing workers (99.8 per 100,000); logging workers (84.3 per 100,000); and aircraft pilots and flight engineers (48.6 per 100,000).

Transportation incidents, in particular roadway crashes, continue to be the leading cause of workplace deaths, responsible for 2,077 or 40% of all fatalities in 2017, followed by deaths from falls, slips and trips (887). Workplace violence is now the third-leading cause of job death, with 807 fatalities reported. Deaths due to unintentional overdoses of drugs at work are a growing problem, increasing by 29% from 203 deaths in 2016 to 262 deaths in 2017. This was the fifth consecutive year that such deaths have increased by at least 25%.

In 2017, male workers were at greater risk of death on the job than female workers, with a fatality rate of 5.7 per 100,000 workers, compared with a rate of 0.6 per 100,000 among women. Men accounted for 93% of job fatalities (4,761) and women accounted for 7% (386). Homicides in the workplace continue to be a disproportionate cause of death for women (22%) compared with men (8%).

In response to concerns about the safety and health risks associated with contract work, for the past seven years BLS has reported fatalities that involve workers employed as contractors. In 2017, there were 811 fatalities among contract workers. The job fatality rate for all self-employed workers—a group that lacks OSHA coverage—continues to remain high at 13.1 per 100,000 workers, more than four times the rate among wage and salary workers (2.9 per 100,000).

Hispanic or Latino and Immigrant Worker Fatalities

In 2017, 903 Latino workers died on the job, an increase from 879 deaths in 2016. The fatality rate among Latino workers was 3.7 per 100,000, the same as in 2016, higher than the overall fatality rate of 3.5 per 100,000 workers.

The states with the greatest number of Latino worker fatalities were Texas (219), California (173) and Florida (81). Immigrant workers constituted 72% of Latino worker deaths in Florida, 68% in California and 57% in Texas.

⁶ Mine Safety and Health Administration, Mine Safety and Health At a Glance: Calendar Year, *available at* www.msha.gov/data-reports/statistics/mine-safety-and-health-glance.

The construction industry was responsible for the greatest number of Latino worker deaths (291), followed by administrative and support and waste management and remediation services (134, with 52% of these deaths in landscaping services), and transportation and warehousing (132, with 77% of these deaths in truck transportation). Latino worker deaths in the construction industry were somewhat higher than in 2016 (283), while the overall number of construction deaths declined.

Events or exposures responsible for Latino worker deaths were largely similar to the causes for all workers, with transportation incidents the leading event (325 deaths), followed by deaths from falls (231), contact with object/equipment (136) and violence (98).⁷

In 2017, 63% of Latino workers who died on the job (568) were born outside of the United States. Fatalities among all foreign-born or immigrant workers continue to be a serious problem. In 2017, there were 927 workplace deaths reported for all immigrant workers; 38% were from Mexico.

The four states with the greatest number of foreign-born worker fatalities in 2017 were California (161), Texas (153), Florida (76) and New York (71). Of the foreign-born workers who were injured fatally at work in 2017, 76% were Latino; 16% were white; 15% were Asian, Native Hawaiian or Pacific Islander; and 6% were black or African American.

The largest number of immigrant worker deaths was reported in the construction industry, at 262 out of 927 total deaths. Thirty-five percent of the foreign-born worker deaths resulted from transportation incidents; 25% from falls, slips and trips; 16% from violent acts; and 14% from contact with objects and equipment.

Aging Workforce Fatalities

People are working longer, and the number of workers ages 55 years and older has increased 124% since 1996. BLS estimates this trend will continue, and that by 2026, one in four workers will be 55 years or older.⁸

In 2017, 37% of all fatalities (1,930 deaths) occurred in workers ages 55 years or older, with 775 of these deaths occurring in workers ages 65 years or older. For workers 65 years or older, the risk of dying on the job is nearly three times greater than the overall work population, with a fatality rate of 10.3 deaths per 100,000 workers. Workers ages 55–64 also have an increased fatality risk, with a fatality rate of 4.6 per 100,000 workers.

Transportation incidents were responsible for 41% of fatalities in workers ages 65 years or older (314 deaths). Workers 65 years or older are at greater risk of fatalities due to falls, slips and trips than the overall worker population. Falls, slips and trips accounted for 28% of all fatalities in workers at least 65 years of age, while the same events accounted for 17% of fatalities among the entire workforce.

⁷ Violence deaths exclude deaths caused by animals or insects.

⁸ Bureau of Labor Statistics, Employment Projections—2016–26, news release, Oct. 24, 2017, available at www.bls.gov/news.release/pdf/ecopro.pdf.

Job Injuries and Illnesses

In 2017, private-sector employers reported 2.8 million injuries and illnesses. State and local government employers reported an additional 664,000 injuries and illnesses, for nearly 3.5 million total cases of workers injured or made ill in 2017. The national injury and illness rate for the private sector in 2017 was 2.8 per 100 workers, a decline from the rate reported by BLS for 2016 (2.9). The rate in 2017 for all industries, including state and local government workers, was 3.1 per 100 workers, a decrease from 2016 (3.2).

The health care and social assistance industry accounted for the greatest proportion (21%) of nonfatal workplace injuries and illnesses in private industry in 2017, followed by manufacturing (15%) and retail trade (14%). Workers in the construction industry experienced 7% of all private-sector injuries and illnesses in 2017. More specifically, the highest rate of nonfatal workplace injuries and illnesses occurred in state government nursing and residential care facilities (10.9 per 100 workers), a decrease from 2016 (13.7 per 100,000). Other high-hazard industries include motor home manufacturing (private industry, 10.3), skiing facilities (private industry, 10.2), veterinary services (private industry, 9.8), materials recovery facilities (private industry, 9.8) and iron foundries (private industry, 8.5).

Trade, transportation and utilities accounted for the greatest proportion (32%) of injuries involving days away from work, job transfer or restriction in the private sector, followed by education and health services at 18%, manufacturing at 17% and construction at 8%.

Women workers suffered 39% of lost-time injuries reported in 2017 (339,630 cases). The leading industries for lost-time injuries and illnesses among women were hospitals, nursing and residential care facilities, and food services and drinking places. Nursing, psychiatric and home health aides, building cleaning workers, registered nurses, and laborers and material movers experienced the greatest number of these injuries. Overexertion was the major cause of these injuries, and the major injury type was sprains, strains and tears.

Men suffered 61% of lost-time injuries reported in 2017 (539,840 cases). The leading industries for these injuries were specialty trade contracting, truck transportation, and food service and drinking places. Driver/sales workers and truck drivers, laborers and material movers, maintenance and repair workers, and construction laborers experienced the greatest number of these injuries. Overexertion was the major cause of these injuries, and the major injury type was sprains, strains and tears. These characteristics of lost-time injuries among men and women have been consistent over the past several years.

For all workers, overexertion and bodily reaction (including lifting and repetitive motion) was the leading exposure resulting in injury, responsible for 34% of all lost-time injury cases in private industry, followed by contact with objects (26%), falls, slips and trips (26%), transportation incidents (5%) and violence events (5%).

The median number of days away from work for lost-time injury cases in private industry was nine days; the median days away from work for men was 10 days and for women was seven days. The median number of days away from work in 2017 generally increased with age: Workers ages 65 and older had 14, workers ages 55–64 had 15, workers 45–54 had 12, workers

ages 35–44 had nine, workers ages 25–34 had six, workers ages 20–24 had five and workers ages 16–19 had four. Latino or Hispanic worker injuries accounted for 13.8% of all lost-time injuries in 2017.

Public-Sector Workers

In 2017, state and local public-sector employers reported an injury rate of 4.6 per 100 workers, significantly higher than the reported rate of 2.8 per 100 among private-sector workers. The injury and illness rate for state government workers was 3.6 per 100 workers and 5.0 for local government workers. More than three in four injuries and illnesses reported in the public sector occurred among local government workers.

The incidence rate for injury and illness cases leading to days away from work in state government in 2017 was 143.8 cases per 10,000 full-time workers, lower than the 151.6 cases in 2016. The incidence rate for local government was 161.0, slightly lower than the incident rate involving days away from work in 2016 (161.8).

Certain health care and protective service occupations have incidence rates for injury and illness cases leading to days away from work that far exceed their private-sector counterparts. These include: psychiatric aides, psychiatric technicians, firefighters, emergency medical technicians and paramedics, nursing assistants, police and sheriff's patrol officers, licensed practical and licensed vocational nurses and registered nurses. The incidence rate of psychiatric aides in state government in 2017 (1,160.7 cases per 10,000 full-time workers) was more than seven times greater than the incidence rate for all state government workers (143.8 cases).

Musculoskeletal disorders occur at a higher incidence rate in the public sector than the private sector. In 2017, the incidence rate for state government workers was 38.0 MSDs per 10,000 full-time workers, 33% higher than the private industry rate (28.6). The incidence rate for local government workers was 44.8 MSDs per 10,000 full-time workers, 57% higher than the private-sector rate.

Workplace violence events disproportionately occur among public employees. The incidence rate of injuries caused by workplace violence was more than 745% higher for state government workers (33.8 per 10,000 workers) than the rate for private industry workers (4.0). The incidence rate of violence for local government workers (25.4 per 10,000 workers) was 535% higher than for private industry workers.

Several years ago, OSHA began requiring federal employers to report injuries and illnesses in the same method as the private sector. But the quality of the data on federal government workers remains limited in quality.

Musculoskeletal Disorders

For 2017, BLS reported 282,750 MSD cases resulting in days away from work in the private sector, a continued decrease from last year (285,950). MSDs accounted for 31.2% of all injuries and illnesses involving days away from work, and remain the largest source of injury and illness cases.

In 2017, the MSD incidence rate across all private-sector industries in the United States was 28.6 per 10,000 workers, less than the rate in 2016 (29.4 per 10,000 workers).

Industries with the highest incidence rates of musculoskeletal disorders involving days away from work in 2017 were air transportation (157.9 per 10,000 workers); couriers and messengers (123.2); warehousing and storage (85.9); performing arts and spectator sports (83.2); nursing and residential care facilities (69.6); telecommunications (62.5); and truck transportation (62.3).

The occupations reporting the highest rate of MSDs involving days away from work in 2017 (including private sector, state and local ownerships) were: bus drivers, transit and intercity (206.2 per 10,000 workers); emergency medical technicians and paramedics (187.4); firefighters (167.5); nursing assistants (166.3); highway maintenance workers (164.2); reservation and transportation ticket agents and travel clerks (127.2); telecom equipment installers and repairers, except line installers (119.6); laborers and freight, stock and material movers and handlers (117.6); light truck or delivery services drivers (105.7); and maids and housekeeping cleaners (100.7). The median number of days away from work for MSDs in 2017 was 13 days.

It is important to recognize that the numbers and rates of MSDs reported by BLS represent only a portion of the total MSD problem. The BLS MSD data are limited to cases involving one or more days away from work, the cases for which BLS collects detailed reports. Similar detailed reports are not collected for injuries and illnesses that do not involve lost work time or those that result in job transfer or restriction, but not in time lost from work. Moreover, these figures do not include injuries suffered by public-sector workers or postal workers, nor do they reflect the under-reporting of MSDs by employers. Based on studies and experience, OSHA estimated that MSDs are understated by at least a factor of two—that is, for every MSD reported, there is another work-related MSD that is not recorded or reported.⁹ However, as discussed below, there is extensive evidence that the undercount of work-related injuries and illnesses is even greater. Based on the percentage of days away from work cases involving MSDs in 2017 (31.2%), there were an estimated total of 879,667 MSDs reported by private-sector employers; 471,250 MSD cases that resulted in days away from work, restricted activity or job transfer; and 188,500 MSDs that resulted in restricted activity or job transfer.

Reported Cases Understate Problem

Over the past decade, there has been significant research documenting that the BLS Survey of Occupational Injuries and Illnesses fails to capture a large proportion of work-related injuries and illnesses—one-third to two-thirds of work-related injuries and illnesses are missed by the survey. Studies comparing injuries captured by the BLS survey with injuries reported to workers' compensation or other injury reporting systems have found that the BLS survey missed 33%–

⁹64 F.R. 65981 and 65 F.R. 68758.

69% of work-related injuries.^{10, 11, 12, 13} A 2018 study of injury reporting in the mining industry found a similar result. Two-thirds of the injuries among miners in Illinois that were reported to workers' compensation were not reported to MSHA by mine operators as required by the law.¹⁴ A study that compared state fatality rates in the construction industry with rates of injuries that result in lost-time or job restriction found there was little correlation between the two, and in some cases there was a negative correlation.¹⁵ The study observed that multiple factors impacted the reporting and recording of injuries and concluded that fatality rates are a much more valid measure of risk.

Some of the undercount in the BLS survey is due to injuries excluded from the BLS survey's scope, including injuries among self-employed individuals, and the design of the survey.¹⁶ But other factors, including employees' reluctance to report injuries due to fear of retaliation, incentive programs that penalize workers who report injuries and drug testing programs for workplace injuries suppress reporting.¹⁷ In addition, there are disincentives for employers to report injuries, which include concern about increased workers' compensation costs for increased reports of injuries; fear of being denied government contracts due to high injury rates; concern about being targeted by OSHA for inspection if a high injury rate is reported; and the promise of monetary bonuses for low injury rates.

BLS also has recognized the need to make changes in its program in order to collect more complete and accurate injury and illness statistics. BLS has launched a pilot of a Household Survey on Occupational Injuries and Illnesses to collect information on work-related injuries and illnesses through interviews with workers, with the results expected in 2019.¹⁸ This household survey is intended to be a supplement to the existing employer-based injury and illness survey. A 2018 report from the National Academies of Sciences, Engineering and Medicine on occupational safety and health surveillance strongly endorsed BLS conducting this new

¹⁰ Boden, L.I., and A. Ozonoff, "Capture-Recapture Estimates of Nonfatal Workplace Injuries and Illnesses," *Annals of Epidemiology*, Vol. 18, No. 6 (2008).

¹¹ Rosenman, K.D., A. Kalush, M.J. Reilly, J.C. Gardiner, M. Reeves and Z. Luo, "How Much Work-Related Injury and Illness is Missed by the Current National Surveillance System?," *Journal of Occupational and Environmental Medicine*, Vol. 48, No. 4, pp. 357–67, April 2006.

¹² Davis, L., K. Grattan, S. Tak, L. Bullock, A. Ozonoff and L. Boden, "Use of Multiple Data Sources for Surveillance of Work-Related Amputations in Massachusetts, Comparisons with Official Estimates and Implications for National Surveillance," *American Journal of Industrial Medicine*, Vol. 57, No. 10, (2014).

¹³ Wuellner, S., and D. Bonauto, "Injury Classification Agreement in Linked Bureau of Labor Statistics and Workers' Compensation Data," *American Journal of Industrial Medicine*, Vol. 57, No. 10, (2014).

¹⁴ Almborg, K.S., L.S. Friedman, D. Swedler and R.A. Cohen, "Mine Safety and Health Administration's Part 50 program does not fully capture chronic disease and injury in the Illinois mining industry," *American Journal of Industrial Medicine*, Vol. 61, pp. 436–443, (2018).

¹⁵ Mendeloff, J., and R. Burns, "States with low non-fatal injury rates have high fatality rates and vice-versa," *Am. J. Ind. Med.*, 56: 509–519. doi:, available at [10.1002/ajim.22047](https://doi.org/10.1002/ajim.22047) (2013).

¹⁶ Wiatrowski, W.J., "Examining the Completeness of Occupational Injury and Illness Data: An Update on Current Research," *Monthly Labor Review*, June 2014.

¹⁷ United States Government Accountability Office, "Enhancing OSHA's Records Audit Process Could Improve the Accuracy of Worker Injury and Illness Data," GAO-10-10, October 2009, available at www.gao.gov/products/GAO-10-10.

¹⁸ Bureau of Labor Statistics, *Research on the Completeness of the Injury and Illness Counts from the Survey of Occupational Injuries and Illnesses*, available at www.bls.gov/iif/undercount.htm.

household survey.¹⁹ Hopefully, if the pilot is successful, Congress will provide the necessary funding to continue and expand this important work.

Cost of Occupational Injuries and Deaths

The cost of occupational injuries and deaths in the United States is staggering, estimated at \$250 billion to \$330 billion a year, according to two recent studies.

The 2019 Workplace Safety Index, published by Liberty Mutual Insurance, estimated the cost of the most disabling workplace injuries to employers at more than \$55 billion a year—more than \$1 billion per week.²⁰ This analysis, based on 2016 data from Liberty Mutual, BLS and the National Academy of Social Insurance, estimated direct costs to employers (medical and lost-wage payments) of injuries resulting in cases involving five or more days of lost time. If indirect costs also are taken into account, the overall costs are much higher. Based on calculations used in the previous Liberty Mutual Safety Index, the data indicate that businesses pay between \$165 billion and \$330 billion annually in direct and indirect (overtime, training and lost productivity) costs on workers' compensation losses for the most disabling injuries (indirect costs are estimated to be two to five times direct costs).²¹ It is important to note that the safety index excludes a large number of injury cases (those resulting in less than five days of lost time). In addition, Liberty Mutual bases its cost estimates on BLS injury data. Thus, all of the problems of underreporting in the BLS system apply to the Liberty Mutual cost estimates as well.

A 2011 comprehensive study examined a broad range of data sources, including data from the BLS, the Centers for Disease Control and Prevention, the National Council on Compensation Insurance and the Healthcare Cost and Utilization Project, to determine the cost of fatal and nonfatal occupational injuries and illnesses for 2007. This study estimated the medical and indirect (productivity) costs of workplace injuries and illnesses at \$250 billion annually, more than the cost of cancer.²² A follow-up analysis found that workers' compensation covered only 21% of these costs, with 13% borne by private health insurance, 11% by the federal government and 5% by state and local governments. The majority of the costs—50%—were borne by workers and their family members.²³

A 2015 report by OSHA—"Adding Inequality to Injury: The Costs of Failing to Protect Workers on the Job"—outlined how work-related injuries have devastating impacts on workers and their families. According to the report, workers who are injured on the job suffer great economic loss.

¹⁹ National Academies of Sciences, Engineering, and Medicine, *A Smarter National Surveillance System for Occupational Safety and Health for the 21st Century*, Washington, D.C.: The National Academies Press, 2018.

²⁰ 2019 Liberty Mutual Workplace Safety Index, available at <https://business.libertymutualgroup.com/business-insurance/Documents/Services/DS200.pdf>.

²¹ Liberty Mutual Research Institute for Safety, news release, April 16, 2002.

²² Leigh, J.P., "Economic Burden of Occupational Injury and Illness in the United States," *The Milbank Quarterly*, Vol. 89, No. 4, (2011).

²³ Leigh, J.P., and J. Marcin, "Workers' Compensation Benefits and Shifting Costs for Occupational Injuries and Illnesses," *Journal of Occupational and Environmental Medicine*, Vol. 54, No. 4, (2012).

Even after receiving workers' compensation benefits, injured workers' incomes are, on average, nearly \$31,000 lower over 10 years than if they had not suffered an injury.²⁴

One of the major contributors to the severe loss of income is the gross deficiencies and inequities in the workers' compensation system, which continues to be governed by 50 different state laws. A 2015 multipart series by Pro Publica and National Public Radio exposed the failure of the workers' compensation system to provide fair and timely compensation for workers hurt on the job.²⁵ The series—"Insult to Injury: America's Vanishing Worker Protections"—was based on a yearlong investigation, which found that over the previous decade there had been a systematic effort by insurers and employers to weaken workers' compensation benefits for injured workers. Since 2003, legislators in 33 states have passed legislation reducing benefits or limiting eligibility. The benefits provided to workers vary widely across different states. For example, the maximum compensation for loss of an eye is \$261,525 in Pennsylvania, but only \$27,280 in Alabama. In many states, employers have great control over medical decisions. Workers are not allowed to pick their own doctors, and employers can demand review by "independent medical examiners" picked by employers who can challenge medical determinations regarding the work-relatedness of the condition, the degree of disability and prescribed medical treatment. According to Pro Publica, all of these factors have contributed to the demolition of the workers' compensation system and left injured workers and their families, and society at large, bearing the costs of their injuries.

OSHA ENFORCEMENT AND COVERAGE

Enforcement is a cornerstone of the Occupational Safety and Health Act and always has been a major part of the OSHA program. However, different administrations have placed different levels of emphasis on enforcement. In general, Democratic administrations have favored strong enforcement, supplemented by compliance assistance and voluntary programs, while Republican administrations have placed a greater emphasis on compliance assistance, backed up by enforcement. But all administrations face deficiencies and weaknesses in OSHA's statutory enforcement authority and significant resource constraints that have greatly limited the agency's ability to meet its responsibilities.

At this time, two-plus years into the Trump administration, OSHA still does not have a confirmed assistant secretary, and to date there have not been dramatic changes in OSHA's enforcement program or policies. However, the number of OSHA inspectors onboard has declined due to President Trump's federal hiring freeze and the failure to fill vacant positions. As a result, the overall level of enforcement activity, particularly involving more complicated and time-intensive cases, has declined.

²⁴ U.S. Department of Labor, Occupational Safety and Health Administration, "Adding Inequality to Injury: The Costs of Failing to Protect Workers on the Job," 2015, *available at* www.osha.gov/Publications/inequality_michaels_june2015.pdf.

²⁵ Pro Publica and National Public Radio, "Insult to Injury: America's Vanishing Worker Protections," March 2015, *available at* www.propublica.org/series/workers-compensation.

The OSH Act excluded many workers from coverage, including workers covered by other safety and health laws, and state and local public employees in states without a state OSHA plan. Over the years, there have been efforts to expand coverage. But today millions of workers—many state and local public employees—still lack OSHA coverage and are at much greater risk of being injured on the job.

Compliance Staffing and Inspections

Since the Trump administration took office in January 2017, the number of federal OSHA compliance inspectors has declined significantly, and is now at the lowest level since the early 1970s. As of December 2018, OSHA had 752 inspectors (excluding supervisors), down from 764 inspectors in December 2017, and from 815 inspectors in December 2016. This reduction is the result of attrition and a federal hiring freeze imposed during the first year of the Trump administration, which since has been lifted for OSHA, and the failure to fill vacant positions.

Currently, the state OSHA plans have 1,063 inspectors, up from 1,057 inspectors the previous year. There are currently a total of 1,815 federal and state OSHA inspectors responsible for enforcing the safety and health law at more than 9 million workplaces, fewer than the 1,821 inspectors the previous year.²⁶

In FY 2018, federal OSHA inspectors conducted 32,020 inspections, down from 32,396 inspections in FY 2017, and the state OSHA agencies combined conducted 41,066 inspections.

While under the Trump administration, the overall number of federal OSHA inspections has remained relatively constant, the agency is conducting far fewer inspections involving significant cases or hazards that require more intensive, time-consuming inspections. From FY 2016 to FY 2018, the number of inspections for significant cases declined from 131 to 65 (-50%); the number of inspections for ergonomic hazards declined from 69 to 19 (-72%); the number of inspections for heat declined from 187 to 95 (-49%); and the number of inspections for workplace violence declined from 49 to 41 (-16%).

The decline in enforcement activity involving significant and complicated cases can be seen in the data from OSHA's enforcement weighting system, a protocol implemented under the Obama administration that gives greater weight to more time-intensive inspections than to shorter-duration routine inspections. In FY 2018, OSHA reported 41,500 enforcement units (EUs) for inspections and investigations, compared with 42,900 EUs in FY 2016, with declines in EUs for significant cases, ergonomics, heat and workplace violence tracking the decline in inspections for these type of cases.

In FY 2018, the majority of federal OSHA inspections took place in the construction industry (52%), followed by manufacturing (21%), transportation and warehousing (4%) and administrative and support and waste management and remediation services (4%). The health care and social assistance sector, which accounted for 21% of private-sector work-related injuries and illnesses, and 15.7% of private-sector employment in 2017, received less than 2% of federal OSHA inspections in FY 2018.

²⁶ This reflects the number of federal inspectors plus the number of inspectors "on board" reflected in the FY 2019 state plan grant applications. It does not include compliance supervisors.

In the OSHA state plans, the construction industry accounted for 40% of inspections and the manufacturing industry accounted for 17%. The state plans, which cover both public- and private-sector workers, conducted more of their inspections in administrative and support and waste management and remediation services (6%), public administration (6%), retail trade (4%), health care and social assistance (4%), and agriculture, forestry, fishing and hunting (3%), than federal OSHA.

At its current staffing and inspection levels, it would take federal OSHA, on average, 165 years to inspect each workplace under its jurisdiction just once. Inspection frequency generally is better in states with OSHA-approved plans, yet is far from satisfactory. In these states, it now would take the state OSHA plans a combined 108 years to inspect each worksite under state jurisdiction once. In 25 states, it would take 150 years or more for OSHA to pay a single visit to each workplace.

The current level of federal and state OSHA inspectors provides one inspector for every 79,262 workers. This compares with the benchmark of one labor inspector for every 10,000 workers recommended by the International Labor Organization for industrialized countries.²⁷ In the states of Arizona, Arkansas, Delaware, Florida, Georgia, Illinois, Kansas, Louisiana, Massachusetts, Mississippi, Missouri, New Mexico, Oklahoma, Pennsylvania, South Dakota, Texas and Wisconsin, the ratio of inspectors to employees is greater than one per 100,000 workers, with Louisiana having the highest ratio at one inspector per 190,772 workers.

Federal OSHA's ability to provide protection to workers has greatly diminished over the years. When the AFL-CIO issued its first "Death on the Job: The Toll of Neglect" report in 1992, federal OSHA could inspect workplaces under its jurisdiction once every 84 years, compared with once every 165 years at the present time. Since the passage of the OSH Act, the number of workplaces and number of workers under OSHA's jurisdiction has nearly doubled, but there are fewer numbers of OSHA staff and OSHA inspectors. In 1975, federal OSHA had a total of 2,435 staff (inspectors and all other OSHA staff) and 1,102 compliance staff (including supervisors) responsible for the safety and health of 85.8 million workers at more than 3.9 million establishments. In FY 2019, there are 1,911 federal OSHA staff responsible for the safety and health of 155.8 million workers at more than 9 million workplaces.

At the peak of federal OSHA staffing in 1980, there were 2,951 total staff and 1,469 federal OSHA inspectors (including supervisors). The ratio of OSHA inspectors per 1 million workers was 14.8. But now, there are only 875 federal OSHA inspectors (including supervisors), or 5.6 inspectors per 1 million workers.

Violations and Penalties

Penalties for OSHA violations have always been relatively low, due to statutory limitations and enforcement policies that prioritize the settlement of cases in order to achieve quicker abatement of hazards, rather than imposing the maximum fines.

²⁷ International Labor Office, *Strategies and Practice for Labor Inspection*, G.B. 297/ESP/3, Geneva, November 2006. The ILO benchmark for labor inspectors is one inspector per 10,000 workers in industrial market economies.

In recent years, administrative and statutory changes have resulted in an increase in OSHA penalties. A revised penalty policy implemented during the Obama administration in 2010 resulted in a doubling of fines for serious violations. Passage of the Federal Civil Penalties Inflation Adjustment Act Improvements Act of 2015, which extended the coverage of the Inflation Adjustment Act to OSHA, further increased penalties for OSHA violations. Under the 2015 law, OSHA was authorized to raise maximum penalties by approximately 80%, the amount of inflation since the last time OSHA penalties were raised in 1990, and to regularly update penalties to account for future inflation.

This statutory increase in federal OSHA penalties took effect Aug. 1, 2016. The latest adjustment, effective Jan. 23, 2019, increased the maximum penalty for serious violations to \$13,260, and for willful and repeat violations to \$132,598.²⁸ State plans also are required to raise their statutory maximum penalties in order to be as effective as the federal OSHA program, but to date, not all states have complied.

In FY 2018, the average penalty for a serious violation for federal OSHA was \$3,580, compared with an average penalty of \$3,553 for serious violations in FY 2017. In the state OSHA plans, the average penalty for a serious violation remained low at \$1,985; in FY 2017, it was \$1,849.

In FY 2018, the trend of lowest and highest average penalties for serious violations continued: Oregon had the lowest average penalty for serious violations at \$587, while California had the highest average penalty at \$7,699 per serious violation.

The number of willful violations cited by federal OSHA in FY 2018 was 341, up from 319 in FY 2017, but still far lower than the 542 willful violations issued during FY 2016, the last full year of the Obama administration. The average penalty per willful violation was \$61,900 in FY 2018 compared with \$65,229 in FY 2017. The average penalty per repeat violation was \$11,501 in FY 2018, similar to the average repeat penalty (\$11,349) in FY 2017. In states with state-run OSHA plans, in FY 2018, there were 156 willful violations issued, with an average penalty of \$41,499 per violation, and 2,177 repeat violations issued, with an average penalty of \$5,088 per violation.

For FY 2018, federal OSHA reported that the agency brought 65 “significant” enforcement cases.²⁹ This is more than the 53 significant cases reported by OSHA for FY 2017, but far fewer than the 131 significant cases for FY 2016.³⁰

While OSHA enforcement in worker fatality cases somewhat improved in recent years, it remains too weak. According to OSHA inspection data, the average total penalty in a fatality case in FY 2018 was just \$14,231 for federal and state OSHA plans combined. However, averages can distort the real picture of fatality penalties in situations in which large cases with very high penalties raise the averages substantially. Using median penalties that capture the point

²⁸ Prior to the passage of the Federal Civil Penalties Inflation Adjustment Act Improvements Act of 2015, the maximum penalty for a serious violation was \$7,000 and the maximum penalty for a willful or repeat violation was \$70,000 per violation.

²⁹ OSHA defines a significant enforcement case as one where the investigation results in a total proposed penalty of greater than or equal to \$180,000 or one that involves novel enforcement issues.

³⁰ For the first 10 months of FY 2016, the threshold for a significant case was \$100,000, increased to \$180,000 on Aug. 1, 2016, when the increase in maximum penalties took effect.

where half of the penalties are below and half the penalties are above the median provides a better picture of the typical penalties in cases involving worker deaths.

The median current penalty per fatality investigation conducted in FY 2018 was \$7,761 for federal OSHA and the median current penalty was \$2,700 for the state OSHA plans combined, according to enforcement data provided by OSHA in April 2018. This compares with the respective penalties in FY 2017: \$7,500 for federal OSHA and \$4,000 for the state OSHA plans. These data include enforcement cases that still are under contest, and some cases that still are open.

A state-by-state analysis of fatality investigations shows that penalties in cases involving worker deaths vary widely from state to state. Rhode Island, which had three fatality investigations in FY 2018, had \$0 for both median initial and current penalties in FY 2018. Oregon had the next lowest median current penalty for fatality investigations with \$1,005 in median penalties assessed, followed by Montana (\$2,328), South Carolina (\$2,375), Illinois (\$2,600) and Utah (\$3,000). Delaware had the highest current median penalty (\$51,736), followed Minnesota (\$26,000), Hawaii (\$24,630), Wyoming (\$22,473) and Mississippi (\$18,375).

Enforcement Initiatives and Policies

During the first two years of the Trump administration, in the absence of a confirmed assistant secretary, there has not been a major overhaul or reorientation of OSHA's enforcement program. A number of important enforcement programs and initiatives implemented by the Obama administration, including the Severe Violator Enforcement Program, Temporary Worker Initiative and Severe Injury Reporting Program have continued. However, key policies and practices implemented by the Obama administration to enhance worker rights and improve transparency and disclosure have been rolled back.

Soon after taking office, in April 2017, in response to calls from the business community, the Trump administration withdrew the Obama administration's policy that provided for nonunion workers to designate a walkaround representative to participate on their behalf in OSHA worksite inspections. The policy, set forth in a 2013 letter of interpretation, clarified that under OSHA regulations, a collective bargaining representative or another individual designated by the employees, if the inspector determined that the individual will aid the inspection, could serve as the walkaround representative.³¹ This provided for nonunion workers to designate a union or worker center as their representative for the purpose of participating in the OSHA inspection. Business groups strongly objected to and challenged this policy. In response, the Trump administration withdrew this letter of interpretation, stating it no longer represented OSHA policy.

The Trump administration also backtracked on Obama initiatives to use public disclosure of information to highlight serious safety and health problems. In 2010, OSHA started posting information on every fatality report it received on the home page of its website, to educate and

³¹ Fairfax, Richard E., Deputy Assistant Secretary, Occupational Safety and Health Administration, Letter to Steve Sallman, Health and Safety Specialist, United Steel, Paper and Forestry, Rubber, Manufacturing, Energy, Allied Industrial and Service Workers International Union, Feb. 21, 2013, *available at* www.osha.gov/laws-regs/standardinterpretations/2013-02-21.

inform the public about the high toll of work-related deaths and the need to prevent them. The information included the name of the worker, the circumstances surrounding the death and the employer. In August 2017, the Trump administration stopped posting these reports. Now, OSHA reports only fatalities it has investigated and, citing privacy concerns, will not release the name of the deceased worker. Worker fatality information no longer is posted on the home page of OSHA's website, which instead displays initiatives OSHA is taking to cooperate with employers. Families of workers killed on the job have protested this change in policy, which diminishes attention to these workplace deaths.

The Obama administration also expanded the use of press releases on significant enforcement cases to focus public attention on employers with serious, willful or repeated violations of the law. OSHA has always issued press releases on important enforcement cases, but under the Obama administration, it was OSHA policy to issue a press release on all enforcement cases with total proposed penalties of greater than \$40,000, and for local OSHA officials to engage in active outreach to the press. The business community strenuously objected to the issuance of these press releases and when the Trump administration took office, the issuance of OSHA press releases on enforcement cases was suspended. Several months later, from public pressure, the agency again issued some press releases for some major enforcement cases, but there no longer is a policy or practice to issue press releases on all significant enforcement cases.

Other Obama administration programs and policies to address high-hazard employers and industries and to respond to changes in the workforce and employment relationships have continued. These include the Severe Violator Enforcement Program, launched in 2010, to focus on and provide enhanced oversight of the most persistent and egregious violators; the Temporary Worker Initiative to help prevent injuries and illnesses among temporary workers by holding both staffing agencies and host employers jointly responsible; and the Severe Injury reporting and Investigation Program.

According to OSHA, 138 new cases were added to the log of the Severe Violator Enforcement Program in FY 2018.³² As of the end of FY 2018, more than 600 employers remained in the severe violator program subject to OSHA enforcement.³³

OSHA has continued to conduct the Temporary Worker Initiative to help prevent injuries and illnesses among temporary workers who are employed by staffing agencies but work for different host employers. However, the number of inspections conducted under the TWI have declined significantly. Under OSHA's temporary worker policy, both host employers and staffing agencies may be held jointly responsible for complying with safety and health rules. In FY 2018, according to data provided by OSHA, the agency conducted 153 inspections of host employers as part of the temporary worker initiative and 86 inspections of staffing agencies, far fewer than the 621 inspections of host employers and 187 inspections of staffing agencies conducted in FY 2016, the last full year of the Obama administration.

³² OSHA, Severe Violators Log, accessed April 11, 2019, available at www.osha.gov/dep/svep_log_03-01-19.xlsx.

³³ OSHA Inspection Data in Response to AFL-CIO Data Request FY 2018.

For CY 2018, OSHA reported that the agency received 12,057 severe injury reports, 9,135 hospitalization reports and 2,922 amputation reports. This was a small increase from the 11,884 severe injury reports received in CY 2017. Twenty-nine percent of the CY 2018 reports received an inspection; 71% of the reports were investigated by employers, similar to CY 2017.³⁴

In conjunction with these special emphasis programs under the Obama administration, OSHA stepped up its enforcement efforts on ergonomic hazards. In FY 2016, there were 13 serious violations for ergonomic hazards under 5(a)(1), six of which were in the poultry industry. In addition, in FY 2016 OSHA issued 96 Hazard Alert Letters (HALs) for ergonomic hazards. These letters are issued in cases where OSHA identifies serious ergonomic hazards, but is not able to meet the legal burden for issuing a general duty citation. Under the Trump administration, enforcement on ergonomics hazards has declined significantly. There were only two cases that resulted in the issuance of 5(a)(1) general duty clause citations in FY 2017. In FY 2018, there were 51 ergonomics inspections cases where OSHA issued 31 Hazard Alert Letters, but no 5(a)(1) citations.

Criminal Enforcement

Throughout OSHA's history, criminal enforcement under the Occupational Safety and Health Act has been rare. According to information provided by the Department of Labor, since the passage of the act in 1970, only 99 cases have been prosecuted under the act, with defendants serving a total of 112 months in jail. During this time, there were approximately 410,000 workplace fatalities, according to National Safety Council and BLS data, about 20% of which were investigated by federal OSHA.^{35, 36}

By comparison, the Environmental Protection Agency reported in FY 2018 that there were 129 criminal enforcement cases initiated under federal environmental laws and 105 defendants charged, resulting in 73 years of jail time and \$86.3 million in fines and restitution. While there were fewer criminal prosecutions by EPA in FY 2018 than during the last year of the Obama administration (FY 2016), there were more cases, fines and jail time in this one year than during OSHA's entire history.³⁷ The aggressive use of criminal penalties for enforcement of environmental laws, and the real potential for jail time for corporate officials, serve as a powerful deterrent.

The criminal penalty provisions of the OSH Act are woefully inadequate. Criminal enforcement is limited to those cases in which a willful violation results in a worker's death or where false statements in required reporting are made. The maximum penalty is six months in jail, making

³⁴ Kapust, Patrick J., Acting Director, Directorate of Enforcement Programs, Occupational Safety and Health Administration, PowerPoint presentation, American Bar Association, Occupational Safety and Health Law Committee Midwinter Meeting, March 2019.

³⁵ "Criminal Referrals by OSHA to DOJ or US Attorneys or Significant Aid to Local Prosecutors (Updated April 8, 2016)" and other information compiled and provided by Office of the Solicitor of Labor. The information for the early years of the statute is incomplete and may not include all cases prosecuted.

³⁶ In addition to cases prosecuted under the Occupational Safety and Health Act and the U.S. federal criminal code (18 U.S.C. 1001), state and local prosecutors have prosecuted employers for deaths and injuries to workers under their state and local laws. There is no complete accounting of these cases.

³⁷ U.S. Environmental Protection Agency, EPA Enforcement Annual Results 2018, *available at* <https://epa.maps.arcgis.com/apps/Cascade/index.html?appid=0b9d73f351d648698f63bba3f3b15114>.

these cases misdemeanors. Criminal penalties are not available in cases where workers are endangered or seriously injured, but no death occurs. This is in contrast to federal environmental laws, where criminal penalties apply in cases where there is “knowing endangerment,” and the law makes such violations felonies. Due to the weak criminal penalties under the OSH Act, the Department of Justice prosecutes few cases under the statute. Instead, in some instances DOJ will prosecute OSHA cases under other federal statutes with stronger criminal provisions if those laws also have been violated.

In response to the OSH Act’s severe limitations, over the years there have been a number of initiatives to expand criminal enforcement for safety and health hazards by utilizing other statutes for prosecution. These include the DOJ Worker Endangerment Initiative, launched in 2005 and expanded in 2016, that, focuses on companies that put workers in danger while violating environmental laws, and prosecutes such employers using the much tougher criminal provisions of environmental statutes.^{38, 39, 40} Under this initiative, DOJ has significantly enhanced its criminal prosecutions for worker safety and health, successfully bringing cases that have resulted in convictions and significant jail time for defendants.⁴¹

During the Obama administration, the Department of Labor stepped up criminal enforcement efforts, referring more cases for criminal prosecution to the DOJ and U.S. attorneys. In addition, DOL expanded assistance to local prosecutors in the investigation and prosecution of cases involving worker deaths and injuries. To date, the Trump administration has continued this enhanced criminal enforcement activity, and Secretary of Labor Acosta has committed to pursuing criminal sanctions where appropriate. In FY 2018, DOL referred 11 cases for criminal prosecution, compared with 19 cases in FY 2017.⁴²

While criminal enforcement of job safety violations at the federal level remains quite limited, in a number of states and localities, prosecutors are pursuing criminal charges against employers and individuals in cases involving job deaths and injuries. In Philadelphia, the district attorney successfully prosecuted the general contractor and crane operator for deaths of six individuals in the 2013 Salvation Army building collapse, winning convictions for involuntary manslaughter and jail time. In New York City, the Manhattan district attorney won a manslaughter conviction against the general contractor, Harco Construction, for the 2015 trenching death of a young undocumented immigrant construction worker. The foreman for the excavation company, Sky Materials, was convicted of criminally negligent homicide and reckless endangerment, and sentenced to one to three years in jail. In both of these cases, unions and local safety and health

³⁸ Goldsmith, Andrew D., “Worker Endangerment Initiative,” PowerPoint presentation, American Bar Association, Occupational Safety and Health Committee, Miami Beach, Florida, February 2009.

³⁹ Department of Justice, Office of Public Affairs News Release, “The Departments of Justice and Labor Announce Expansion of Worker Endangerment Initiative to Address Environmental and Worker Safety Violations,” Dec. 17, 2015, *available at* www.justice.gov/opa/pr/departments-justice-and-labor-announce-expansion-worker-endangerment-initiative-address.

⁴⁰ Memorandum of Understanding between the U.S. Departments of Labor and Justice on Criminal Prosecutions of Worker Safety Laws, Dec. 17, 2015, *available at* www.justice.gov/enrd/file/800526/download.

⁴¹ “Frontline: A Dangerous Business Revisited,” March 2008, *available at* www.pbs.org/wgbh/pages/frontline/mcwane/penalty/initiative.html.

⁴² Information on criminal referrals for FY 2018 provided to the AFL-CIO by the Office of the Solicitor of Labor.

activists worked with prosecutors to provide assistance and to educate the community about the job safety crimes.

Voluntary Programs

Voluntary programs have always been part of OSHA's programs, but the emphasis placed on voluntary initiatives has varied under different administrations. Under the Obama administration, strong enforcement was the priority, with voluntary programs supplementing enforcement efforts. Currently, the Trump administration has indicated it intends to place a greater emphasis on voluntary programs, while maintaining OSHA's enforcement program.

The major voluntary programs conducted by OSHA are the Voluntary Protection Program, a program that recognizes companies with a high level of safety and health performance, and the Alliance program, under which OSHA partners with trade associations, professional groups and others to carry out safety and health initiatives targeted at particular industries or hazards. In FY 2018, OSHA formed 24 new alliances, up from 17 in FY 2017 and 20 in FY 2016. The total number of active alliances in FY 2018 is 245. OSHA approved 59 new VPP sites in FY 2018, down from 78 in FY 2017 and the same as in FY 2016, bringing the total number of federal OSHA VPP sites at the end of FY 2018 to 1,386.⁴³

Coverage

The current OSHA law still does not cover 8 million state and local government employees in 24 states and the District of Columbia, although these workers encounter the same hazards as private-sector workers, and in many states have a higher rate of injury than their private-sector counterparts.^{44, 45}

Similarly, millions who work in the transportation and agriculture industries and at Department of Energy contract facilities lack full protection under the OSH Act. These workers theoretically are covered by other laws, which in practice have failed to provide equivalent protection.

In 2013, OSHA coverage was extended to flight attendants when the Federal Aviation Administration rescinded a longstanding policy and ceded jurisdiction to OSHA on a number of key safety and health issues, in response to the FAA Modernization and Reform Act of 2012 (PL 112-95). This policy action was the culmination of decades of effort by the flight attendant unions to secure OSHA protections for flight attendants. Specifically, FAA issued a new policy that extended OSHA regulations and jurisdiction on hazard communication, bloodborne

⁴³ OSHA Directorate of Cooperative and State Programs.

⁴⁴ Under the OSH Act, states may operate their own OSHA programs. Twenty-one states and one territory have state OSHA programs covering both public- and private-sector workers. Connecticut, Illinois, Maine, New Jersey and New York have state programs covering state and local employees only. Maine's state program went into effect Aug. 5, 2015.

⁴⁵ Some states provide safety and health protection to public employees under state laws that are not OSHA-approved plans. In 2014, the commonwealth of Massachusetts enacted legislation establishing legally binding safety and health protections for public employees, but this law has not been submitted for federal OSHA approval.

pathogens, hearing conservation, recordkeeping, and access to employee exposure and medical records for cabin crews.⁴⁶

Whistleblower Protection

One of OSHA's key responsibilities is to enforce the anti-retaliation provisions under section 11(c) of the Occupational Safety and Health Act. In addition, OSHA has the responsibility to enforce the whistleblower provisions of 21 other statutes, ranging from the Federal Rail Safety Act to the Sarbanes-Oxley finance law. Many of these statutes deal with safety and health matters, but others do not.

Under the Obama administration, the Department of Labor made the protection of a "worker's voice" a priority initiative. As part of this effort, OSHA took a number of actions to strengthen the Whistleblower Protection Program to protect workers who raise job safety issues and exercise other rights from employer retaliation.

The Obama administration elevated the whistleblower program, creating a new separate Directorate of Whistleblower Protection Programs at OSHA. (Previously, the program had been part of OSHA's enforcement directorate.) To improve the timeliness and consistency of case handling, the agency updated and revised its investigators' manual and trained staff on policies and procedures.

The Obama administration also established a new Whistleblower Protection Advisory Committee composed of representatives from labor, management and the public, charged with overseeing and providing advice and guidance to OSHA on its whistleblower protection program. Unfortunately, the Trump administration has terminated this advisory committee, eliminating oversight on this important program.

The Obama administration created a separate budget line item for the whistleblower program and sought increased funding and staffing for the program. For FY 2018, the budget for the program was \$17.5 million, with 127 staff authorized, but only 114 staff on board, a significant decrease from the 135 positions in FY 2016. Currently, in FY 2019, the number of authorized whistleblower positions is 126, with a budget of \$17.5 million.

For FY 2020, the Trump administration has proposed an increase in funding and staffing for the whistleblower program, requesting \$131 million and 131 positions. This is still fewer than the number of positions (135) during the last full year of the Obama administration. Moreover, in its FY 2020 budget request, the Trump administration has proposed to reorganize the whistleblower program, eliminating the supervisory personnel for the program in the regional offices, and centralizing management and supervision for the program at OSHA headquarters in Washington, D.C. There are serious concerns that such a centralization will make it harder for whistleblower investigators in the field, who already are stretched thin, to carry out their work.

⁴⁶ Department of Transportation, Federal Aviation Administration, Occupational Safety and Health Standards for Cabin Crew Members, Aug. 21, 2013, available at www.osha.gov/faa/faa_osh.pdf.

OSHA whistleblower program data for FY 2018 show that the number of cases received and completed by the agency declined from FY 2017. In FY 2018 OSHA received 3,007 cases and completed 2,924 cases. This compares with 3,303 cases received and 3,348 cases completed in FY 2017. In FY 2018, 62% of the cases received (1,870 out of 3,007) were 11(c) complaints. Workers also filed large numbers of whistleblower cases under the Federal Rail Safety Act (336), the Surface Transportation Act (322) and the Sarbanes-Oxley Act (155).⁴⁷

While the number of whistleblower cases filed under the Trump administration has declined, due to the cutbacks in whistleblower staff the backlog in cases has grown and continues to be a serious problem.

At the end of FY 2018, there were 2,540 pending cases; 1,530 of these were 11(c) cases. The average time to complete cases was 283 days in FY 2018, down from an average of 292 days in FY 2017. For OSHA 11(c) cases, the average time to complete cases was 271 days in FY 2018, an increase from 260 days in FY 2017. The long amount of time to resolve cases is particularly problematic under the OSH Act and those other statutes where there is no opportunity for preliminary reinstatement for workers while the case is being resolved, nor a separate right of action for the complainant to pursue the case on his or her own. During this time, workers are in limbo, with no recourse or redress for discriminatory actions. Other whistleblower statutes provide these rights.

In FY 2018, 739 cases were found to be meritorious, with \$27.7 million in remedies (back pay, damages, etc.). This compares with 846 merit cases and \$29.3 million in damages in FY 2017. The biggest average awards in FY 2018 were for cases brought under the Sarbanes-Oxley Act (\$322,099) and the Federal Rail Safety Act (\$90,629). For the 11(c) program, damage awards were much smaller. In FY 2018, there were 510 meritorious 11(c) cases, with damages averaging \$7,758 per case.

OSHA also has addressed the issue of injury reporting through its whistleblower program, in particular programs and policies that retaliate against workers or discourage workers from reporting injuries. In recent years, these employer programs and policies have grown in a wide range of industries. Under OSHA regulations, reporting work-related injuries is a protected activity, and employers are prohibited from retaliating against workers who report injuries. The Federal Rail Safety Act, for which OSHA enforces the whistleblower provisions, also includes specific provisions that prohibit retaliation against workers who report injuries.

OSHA whistleblower enforcement data confirms that retaliation against workers who report job injuries is a significant problem. In FY 2018, 451 out of 2,965 discrimination cases involved retaliation for injury reporting. OSHA 11(c) cases accounted for 316 of these claims, of which 115 (36%) were found to have merit. Claims under the Federal Rail Safety Act accounted for 127 of the injury reporting retaliation cases, of which 14 cases (11%) were meritorious.

⁴⁷ Occupational Safety and Health Administration, Whistleblower Investigation Data, Report Period: 10/1/17 to 9/30/18.

To address the problems of retaliation related to injury reporting, in March 2012 OSHA issued a policy memorandum to provide guidance to the field.⁴⁸ The memo outlined the types of employer safety incentive and disincentive policies and practices that could constitute illegal retaliation under Section 11(c) and other whistleblower statutes, and the steps investigators should take in responding to complaints of employer retaliation for injury reporting. To date, the memo remains in effect.

In addition, OSHA issued an electronic injury reporting rule in May 2016 that included provisions prohibiting retaliation against workers for reporting injuries and making such actions a regulatory violation subject to citation and penalties (29 CFR 1904.35). The anti-retaliation provisions became effective in December 2016 and remain in effect. However, in October 2018, OSHA issued an enforcement memo that limited the scope of these provisions as they apply to workplace safety incentive programs and post-incident drug testing, placing the burden on workers to demonstrate actual retaliation in individual cases, rather than creating a presumption that certain types of programs were impermissible.⁴⁹ This new policy interpretation will greatly limit the utility of the anti-retaliation provisions in prohibiting policies and practices that discourage the reporting of injuries.

In FY 2018, OSHA issued 17 citations for violations of the 1904.35 provisions, with the U.S. Postal Service receiving 10 of these citations. Employer groups have filed legal challenges to the anti-retaliation provisions of the injury reporting rule, but this litigation was held in abeyance while the Trump administration reconsidered other aspects of the injury reporting regulation. That litigation has been reactivated, and the challenge will be considered by the U.S. District Court for the Western District of Oklahoma this year.

Even with improvements in the OSHA whistleblower program in recent years, problems and deficiencies remain. The biggest problems stem from deficiencies in the OSH Act itself. The anti-retaliation provisions of the law were adopted 49 years ago and are weak and outdated compared with more recently adopted statutes. The OSH Act provides only 30 days to file a discrimination complaint, compared with 180 days provided by a number of other laws. If a worker fails to file a complaint within this time, he or she simply is out of luck.

The OSH Act also has extremely limited procedures for the enforcement of discrimination cases. If there is no agreement or settlement of the findings, the secretary of labor must bring cases in U.S. District Court. Most other statutes provide for an administrative proceeding. The formal procedures of the OSH Act mean meritorious cases may be dropped simply because the solicitor of labor does not have the resources to pursue them. Moreover, unlike other statutes, such as the Mine Safety and Health Act and the Surface Transportation Assistance Act, the OSH Act does not allow a complainant the right to pursue the case on his or own if the secretary fails to act within a designated timeframe or declines to act at all. And the OSH Act does not provide for

⁴⁸ Richard E. Fairfax, Deputy Assistant Secretary, Memorandum for Regional Administrators, Whistleblower Program Managers, "Employer Safety Incentive and Disincentive Policies and Practices," March 12, 2012.

⁴⁹ Kim Stille, Acting Director of Enforcement, Memorandum for Regional Administrators and State Designees, "Clarification of OSHA's Position on Workplace Safety Incentive Programs and Post-Incident Drug Testing Under 29 CFR 1904.35(b)(1)(iv)," Oct. 11, 2018, available at www.osha.gov/laws-regs/standardinterpretations/2018-10-11.

preliminary reinstatement, as other statutes such as the Mine Safety and Health Act do, which means that workers who are retaliated against for exercising their job safety rights have no remedy while final action on their case is pending. These deficiencies in the whistleblower program only can be remedied through legislative improvements in the OSH Act.

REGULATORY ACTION, BUDGET AND LEGISLATION

During its eight years in office, the Obama administration issued many important new OSHA standards and regulations to protect workers from serious workplace hazards and to expand workers' rights. The key achievements include standards on silica, beryllium and confined space entry in construction, and rules to require prompt reports of severe injuries to OSHA, electronic reporting of injury data and enhanced anti-retaliation protections for workers who report injuries.

Unfortunately, due to industry and political opposition, many of these protections were delayed and took years to issue. OSHA's standards on silica and beryllium both took 19 years, finally issued in the last year of the administration. For many other serious hazards, rules were not completed or barely initiated. As a result, at the end of the Obama administration, there was a long unfinished agenda of hazards needing action, including combustible dust, chemical process safety management, infectious diseases and workplace violence.

The Trump Administration's Regulatory Record

Deregulation was a major plank in President Trump's platform and since taking office in January 2017, the Trump administration has moved aggressively on its deregulatory agenda. Through executive orders, legislative action and delays and rollbacks in regulations, the Trump administration has sought to repeal or weaken many Obama administration rules and fundamentally to change the government's role in protecting workers and the public through regulatory safeguards.

Soon after taking office, President Trump issued two significant executive orders to set the foundation for the administration's deregulatory agenda. Executive Order 13771, "Reducing Regulation and Controlling Regulatory Costs," issued Jan. 30, 2017, requires the elimination of two regulations for every new regulation promulgated. The order prohibits agencies from instituting new protections unless they offset the costs by removing existing protections from the books, putting workers and the public in greater danger. OMB issued guidance to the agencies on implementing the order, but it still is very unclear as to how this regulatory accounting actually will work. Public Citizen, joined by the Communications Workers of America (CWA) and the Natural Resources Defense Council, filed a legal challenge to the order in the U.S. Court of Appeals for the District of Columbia Circuit, but the court has declined to rule on the matter in the absence of a concrete action applying the order and a demonstration of harm.

Another executive order—EO 13777—"Enforcing the Regulatory Reform Agenda," issued Feb. 24, 2017, requires agencies to appoint a regulatory reform officer and to establish a regulatory reform task force for the purpose of identifying regulations that should be repealed, replaced or modified. Agencies had 90 days to identify regulations for rollback or modification.

Early in the administration, President Trump worked with congressional Republicans to use the Congressional Review Act to repeal many rules issued at the end of the Obama administration. The Congressional Review Act provides Congress the opportunity to review and repeal recently issued final rules under fast track procedures that only require a simple majority vote. Previously, the CRA was used successfully only once, in 2001 at the beginning of the Bush administration, to repeal OSHA's ergonomics standard issued by the Clinton administration near the end of its second term.

In the first four months of the Trump administration, 14 final rules issued by the Obama administration were repealed under the CRA. Two of these were worker safety and health rules. H.J.Res. 37, signed on March 27, 2017, repealed a rule to implement the Obama executive order "Fair Pay and Safe Workplaces," which would have enhanced reporting and oversight of federal contractors to improve compliance with workplace safety and labor laws. H.J.Res. 83, signed on April 3, 2017, repealed OSHA's rule that clarified employers' obligation to keep accurate injury and illness records. This means OSHA only will be able to hold employers accountable for accurately reporting workplace injuries within six months of an inspection, making it impossible for OSHA to enforce long-term systemic failures of employers to record workplace injuries.

Other significant safety and health rules issued during the Obama administration that escaped repeal under the CRA were delayed or targeted for weakening. The effective date of OSHA's final beryllium standard was delayed until May 20, 2017, and enforcement of the standard delayed until May 11, 2018. The Trump administration then moved to weaken the beryllium standard for the construction and maritime industries, proposing in June 2017 to revoke many of the rule's requirements, including key exposure monitoring and medical surveillance requirements. While these requirements currently remain on the books, OSHA has refused to enforce them, informing employers there is no obligation to comply. According to OSHA's latest regulatory agenda, final action to revoke the exposure monitoring and medical surveillance requirements for beryllium in construction and maritime is scheduled for June 2019.

Enforcement of OSHA's landmark silica standard in the construction industry was delayed for three months until Sept. 23, 2017. Due to strong pressure from the building and construction trades unions, the administration did not move to weaken the rule and continued to defend it from legal challenges in federal court. In December 2017, the U.S. Court of Appeals for the District of Columbia issued a decision strongly upholding the rule, rejecting all of the industry arguments. The court also found merit in the unions' arguments that the medical removal provisions of the rule should be strengthened and ordered OSHA to reconsider this issue. The OSHA silica standard is now in effect and being enforced in the construction industry and general industry.

The Trump administration also delayed and weakened OSHA's electronic injury reporting rule. This rule, as issued in May 2016, required employers in higher-risk industries to submit annual summaries of annual injury and illness information to OSHA and for larger employers (those with 250 or more employees) to submit detailed information from the OSHA injury logs (Form 300) and from reports of individual injuries (Form 301). The rule also strengthened anti-retaliation protections for workers who report injuries. The summary injury and illness reports are similar to those OSHA has collected from employers since 1996. The more detailed injury

and illness reports required in the 2016 rule would provide data on the types of injuries and their cause, similar to the data on injuries in the mining industry that has been collected by MSHA for decades.

The anti-retaliation protections of the injury reporting rule went into effect in December 2016, and after a delay, the requirements for reporting the summary injury and illness information to OSHA went into effect in December 2017.

However, in July 2018 the administration proposed to revoke the provisions of the rule that required large establishments (with 250 or more employees) to report detailed injury data annually to OSHA. A final rule revoking this requirement was issued on Jan. 25, 2019.

In addition, the administration has refused to make public the summary injury information received from employers in 2017, even though courts previously have ruled that this type of information must be released to the public under the Freedom of Information Act. OSHA has made similar information publicly available on its website for many years.

The revocation of the detailed injury reporting requirements and OSHA's refusal to release the summary injury data collected under the rule have been challenged by Public Citizen, with decisions in these cases expected in the coming year.

In addition to OSHA, other agencies have moved to weaken worker safety and health protections. In September 2018, the Wage and Hour Division at DOL proposed to repeal child labor protections for 16- and 17-year-olds working in health care that restricted the operation of powered patient-lifting devices. At the U.S. Department of Agriculture, the Food Safety Inspection Service has moved to relax inspection procedures in the poultry and pork industries, and allow greatly increased line speeds that will greatly increase workers' risk for ergonomic injuries.

The Trump administration also has abandoned, suspended or delayed all work on the development and issuance of new regulations on major safety and health hazards, many of which have been in process for years. In its first regulatory agenda issued in July 2017, the administration withdrew nearly a dozen rules from the agenda. New standards on combustible dust, backover injuries, noise in construction, welding, injury and illness prevention programs, styrene, bromopropane, PELs and chemical management were abandoned. The administration has also put new rules on other critical safety and health hazards, including infectious diseases and process safety management, on inactive status on the long-term agenda, leaving future action undetermined and uncertain.

New standards to address injuries and deaths on communications towers and to update rules on emergency preparedness remain on OSHA's regulatory agenda. A small business review was conducted on the communication tower rule in 2018, and a similar review is now in process on the draft emergency preparedness rule. No dates have been set for issuing formal proposals on either of these rules.

A standard on workplace violence prevention for the health care and social service sectors also remains on the agenda, but is moving at a snail's pace. A small business review originally slated to begin in January 2019 has yet to occur. Meanwhile, as reviewed in detail below, workplace violence continues to be a serious and growing safety and problem that needs prompt attention and action.

In summary, the Trump administration is dedicated to pursuing a deregulatory agenda to roll back or repeal existing protections. Action on new standards is extremely limited and moving slowly. At the current pace, there will be no significant proposed or final new safety and health rules issued by the end of the Trump administration's term in January 2021. Real progress will only come as a result of congressional action or litigation to force the administration to issue much-needed rules, or when there is a change of administration.

Job Safety Budget

Funding for the nation's job safety and health programs historically has been limited, particularly when compared with the scope of responsibilities of the job safety agencies and the extent of the problems that need to be addressed. Democratic administrations and Democratic majorities in Congress generally have sought to increase funding for job safety agencies, while Republican administrations and Republican majorities in Congress have sought to cut funding.

During its time in office, the Obama administration made funding for the job safety agencies—particularly the enforcement programs—a priority, moving in the early years of the administration to restore funding for the agencies from cuts during the Bush administration.

After the Republicans took control of the House of Representatives in 2011, the budgets for the job safety agencies were targeted. Following the government shutdown and sequester in 2013, the budgets for OSHA, MSHA and NIOSH were cut. OSHA funding was reduced from \$564.8 million in FY 2012 to \$535.2 million in FY 2013, and MSHA funding was reduced from \$372.5 million to \$353.8 million.

In FY 2014, as a result of a budget agreement, funding levels were increased to \$552.2 million for OSHA and \$375.9 million for MSHA. But since that time, funding for these agencies largely has remained stagnant, with both agencies experiencing cutbacks in staff and program activity.

Unfortunately, NIOSH did not receive the same ongoing support for funding under the Obama administration as OSHA and MSHA. While increased funding for NIOSH was requested and received in FY 2010, in subsequent requests the administration proposed cuts to NIOSH's budget.

Specifically, beginning with the FY 2012 budget request, and every year thereafter, the Obama administration proposed approximately \$50 million in cuts for NIOSH through the elimination of programs for agriculture, fishing, and logging safety and health research, and the Educational Research Center program to train occupational safety and health professionals. As a result of strong opposition to these cuts by the entire safety and health community, along with labor and business groups, Congress rejected these proposals and maintained NIOSH's funding. Currently, NIOSH's budget for FY 2019 stands at \$336.2 million.

Since taking office, all three of President Trump's budget proposals (for FY 2018, FY 2019 and FY 2020) have targeted key worker safety and health programs for cutbacks or elimination. Each of the president's budgets proposed to eliminate OSHA's Susan Harwood worker safety and health training program—the only compliance assistance program targeted primarily to workers—and shift the money to compliance assistance for employers, including increases for the Voluntary Protection Program. The Trump administration also proposed to cut the budget for coal mine enforcement and slash NIOSH's research budget by more than 40%, eliminating all external research, including research for construction and firefighter safety and health. In addition in FY 2019, the administration proposed to move NIOSH to the National Institutes of Health and absorb the program into other NIH programs. The administration also proposed to eliminate the Chemical Safety Board, the independent agency responsible for investigating chemical accidents and making recommendations to prevent them in the future.

In FY 2018 and 2019, Congress rejected these cuts, and the proposal to move NIOSH to NIH.

Currently, for FY 2019, funding for the job safety and health agencies stands at \$557.8 million for OSHA; \$373.8 million for MSHA; \$336.2 million for NIOSH; and \$12 million for the Chemical Safety Board. The FY 2019 funding bill included small increases for OSHA (\$1 million for federal enforcement, \$2.3 million for state enforcement and \$3.5 million for federal compliance assistance programs); NIOSH (\$1.3 million); and the Chemical Safety Board (\$1 million).

As noted, for FY 2020, President Trump has proposed similar cuts for the job safety agencies. For OSHA, the administration has proposed \$557.5 million in overall funding, elimination of the worker safety and health training program, and some increases in the federal OSHA enforcement program (\$2.8 million additional funding), whistleblower program (\$1.1 million), and safety and health statistics program (\$5.7 million).

For MSHA, \$376 million in overall funding is proposed, along with a proposed reorganization to combine MSHA enforcement programs for coal mining, and metal and nonmetal mining, which have to date been separate. There are concerns this consolidation will reduce the expertise in and effectiveness of the current mine safety enforcement programs.

For NIOSH, in FY 2020, the Trump administration has proposed even greater program cuts that would reduce funding from \$336.2 million to \$190 million, eliminating funding for all external research. And once again, the president's budget proposes to eliminate the Chemical Safety Board.

With the Democrats now in the majority in the House of Representatives, it is almost certain that these proposed cuts will be rejected again. Hopefully, with the change in Congress, it now may be possible to increase the funding for OSHA, MSHA, NIOSH and other job safety agencies to provide additional resources to address the significant safety and health problems facing workers.

Legislation

During President Trump's first two years in office, with Republicans holding majorities in Congress, the political environment for working people was very challenging. In addition to the repeal of more than a dozen rules under the Congressional Review Act, Republicans pushed forward a wide range of bills to roll back and limit workers' rights and protections.

Among these bills were a large number of "regulatory reform" measures that would make it more difficult, if not impossible, for agencies to issue needed safeguards, posing a direct and serious threat to worker safety and health. These included the Regulations from the Executive in Need of Scrutiny (REINS) Act that would set up Congress as the gatekeeper for regulations, and mandate that Congress vote affirmatively to approve all major rules before they went into effect, and the Regulatory Accountability Act that would have upended 40 years of law to make costs to businesses, not the protection of workers and the public, the primary consideration. During the 115th Congress, the House passed these and numerous other anti-regulatory bills. However, due to strong opposition from Democrats in the Senate, none of the measures gained sufficient support (i.e., 60 votes) to overcome a filibuster. None of these anti-regulatory bills became law.

In 2019, in the 116th Congress, with the Democrats now in the majority in the House of Representatives, the political environment is much improved. Democrats can set the agenda in the House, move progressive legislation, conduct vigorous and meaningful oversight of the Trump administration and block anti-worker initiatives proposed by the administration or congressional Republicans.

In their first hundred days in office, House Democrats have moved assertively on a pro-worker agenda to improve protections, rights and opportunities for working Americans and their families, and have introduced a number of bills to strengthen safety and health protections for workers.

The Protecting America's Workers Act (H.R. 1074) would expand OSHA coverage, strengthen enforcement and enhance whistleblower protections. The bill also would restore OSHA's authority to enforce injury recordkeeping and reporting requirements, which was restricted when Republicans overturned an OSHA rule under the Congressional Review Act in 2017. A separate measure (H.J.Res. 44) also has been introduced to disapprove OSHA's recent rule revoking the detailed injury reporting requirements of OSHA's 2016 injury tracking rule, which, if enacted, would restore these requirements.

The Workplace Violence Prevention for Health Care and Social Service Workers Act (H.R. 1309, S. 851) would require OSHA to issue a workplace violence standard to protect workers in these industries. It would mandate that employers establish workplace prevention plans to identify and correct workplace violence risks and hazards, train workers and establish systems for reporting threats and assaults. The House Education and Labor Committee already has held a hearing on this bill, and action is expected in this session of Congress.

Legislation—the Transit Worker and Pedestrian Protection Act (H.R. 1139, S. 436)—has also been introduced requiring the Department of Transportation to issue rules to protect bus drivers

and other transit workers from violence and other safety and health risks. Legislation to strengthen mine safety protections, introduced in recent Congresses—the Robert C. Byrd Mine Safety Protection Act—is expected to be reintroduced soon in the 116th Congress.

Legislation to extend the September 11th Victims Compensation Fund to compensate responders and other individuals suffering from 9/11 diseases also has been introduced. The VCF, first established after the 9/11 attacks in 2001, was reopened for five years in 2010 when Congress passed the James Zadroga 9/11 Health and Compensation Act. In 2015 Congress made the 9/11 health program permanent, but only extended the VCF for an additional five years. Now the VCF is running out of money, benefits to victims have been cut and the VCF is scheduled to shut down in 2020. Meanwhile, thousands of responders and survivors are sick, with more expected to develop 9/11 diseases in the coming years. The Never Forget the Heroes: Permanent Authorization of the September 11th Victim Compensation Fund Act (H.R.1327, S. 546) would extend the VCF until 2090. The legislation has strong bipartisan support, and hopefully will be enacted in this session of the Congress to ensure all individuals who become sick or die due to 9/11 illnesses receive the compensation they need and deserve.

MINE SAFETY AND HEALTH

During the eight years of the Obama administration, the state of mine safety and health in the United States saw tremendous improvements. The administration began with the April 2010 Upper Big Branch mining disaster—the worst coal mine disaster in the United States in 40 years that killed 29 miners—and ended in 2016 with the safest year in mining history.

The UBB explosion and subsequent investigations highlighted major deficiencies in MSHA’s oversight, and the poor state of safety and health and a lack of compliance not only at UBB, but also at many of the nation’s mines. The Obama administration took aggressive action following the UBB explosion, criminally prosecuting both the company and individuals for violations that led to the deaths. Don Blankenship, the CEO of Massey Energy—the owner of the UBB mine—was found guilty of conspiracy to violate mine safety standards and was sentenced to and served one year in jail.⁵⁰

Following the UBB explosion, MSHA launched a series of initiatives to strengthen enforcement programs and regulations that significantly improved safety and health conditions at the nation’s mines. These included impact inspections to target mines with poor safety records and an enforcement program to address mines with patterns of violations.

New mine safety and health standards were issued, including rules on rock-dusting to prevent mine explosions, proximity detection systems on continuous mining machines in underground coal mines and pre-shift examination of mines. The most significant MSHA rule issued by the

⁵⁰Department of Justice, U.S. Attorney’s Office, Southern District of West Virginia, “Blankenship sentenced to a year in Federal prison,” April 6, 2016, available at www.justice.gov/usao-sdvw/pr/blankenship-sentenced-year-federal-prison.

Obama administration was the coal dust rule promulgated in April 2014, which cut permissible exposure to coal dust to reduce the risk of black lung disease.

Under the Obama administration, MSHA also undertook a major initiative—Miners’ Voice—to encourage miners to exercise their rights under the Mine Act, educating miners about their rights and stepping up enforcement of anti-retaliation protections.

The Trump administration has taken a less aggressive approach to oversight of safety and health at the nation’s mines. President Trump appointed a mining executive as MSHA assistant secretary. David Zatezalo, formerly CEO of Rhino Resources Partners, was confirmed by the Senate in November 2017 on a party-line vote. Rhino Resources has a long history with MSHA, and received two pattern of violation notices from MSHA in recent years for failure to correct repeated and ongoing violations. Zatezalo has stated he is committed to strong enforcement of mine safety laws. Since the Trump administration took office, MSHA largely has maintained its enforcement programs while expanding voluntary programs for mine employers. However, at the urging of the mining industry, MSHA has moved to roll back important regulations.

Immediately upon taking office, the Trump administration took action to delay and weaken MSHA’s rule that required mine examinations at metal and nonmetal mines. This rule, issued in January 2017, extended to metal and nonmetal mines requirements already in place in coal mines that mine operators conduct mine inspections and correct identified hazards before miners begin their shift. The administration delayed the effective date of the rule until June 2, 2018, and then weakened the rule, allowing mine operators to conduct inspections after miners begin work and eliminating the requirement that hazards identified and immediately corrected be recorded. The weakening changes, finalized on April 9, 2018, have been challenged by the mining unions, and a decision from the court is expected in the coming months.

The Trump administration has suspended work on new MSHA rules on silica and proximity detection systems for mobile mining equipment. Both of these rules, which have been under development for years, have been placed on the long-term regulatory agenda, with future action undetermined. Both of these hazards pose serious and growing risks to miners.

Recently, the National Institute for Occupational Safety and Health reported the largest cluster of black lung disease (coal workers pneumoconiosis) among active coal miners that had been identified in years. More than 400 cases of advanced progressive massive fibrosis (PMF) were reported from just three clinics in Appalachia from 2013 to 2017.⁵¹ In central Appalachia (Kentucky, Virginia and West Virginia), 20.6% of long-tenured miners have CWP; the national prevalence of CWP in miners with 25 years or more of tenure now exceeds 10%.⁵² The current conjecture is that exposure to silica from mining coal seams containing high concentration of quartz is a major factor in causing this increase in disabling lung disease. The MSHA silica standard still allows exposures of up to 100 ug/m³. The standard was set to be lowered following

⁵¹ Blackley, D.J., L.E. Reynolds, C. Short, et al., “Progressive Massive Fibrosis in Coal Miners From 3 Clinics in Virginia,” *Journal of the American Medical Association*, 2018;319(5):500–501.

⁵² Blackley, D.J., C.N. Halldin, A.S. Laney, “Continued Increase in Prevalence of Coal Workers’ Pneumoconiosis in the United States, 1970–2017,” *American Journal of Public Health* 108, No. 9 (Sept. 1, 2018): pp. 1220–1222. DOI: 10.2105/AJPH.2018.304517.

the issuance of the new OSHA silica rule, which reduced permissible exposures to 50 ug/m³ for industries under OSHA's jurisdiction. However, the Trump administration suspended the rulemaking for the MSHA silica standard and has refused to take action even in the face of the alarming increase in PMF.

Injuries and deaths from machinery and power haulage equipment that would be addressed by a standard on proximity detection also continue to be a serious problem. In the proposed standard on proximity detection for mobile mining equipment issued by MSHA in September 2015, the agency reported that from 1984 to 2014, there were 42 preventable fatalities and 179 injuries in coal hauling caused by machines and scoops (80 FR 53073). Preliminary data from MSHA for 2018 reports five fatalities in power haulage operations in coal mining, demonstrating that this remains a serious problem, and that a new proximity detection standard is needed.⁵³

The Trump administration has initiated an examination of MSHA's 2014 coal dust rule to evaluate the effectiveness of the rule. Initially, this review was to include an assessment of whether the rule should be modified to be less burdensome on industry. But due to strong objections to any action to roll back the rule, the review and request for public comments is focused on the effectiveness of the rule in preventing adverse health effects and the most effective control measures for reducing exposures.⁵⁴

Monitoring data reported by MSHA and coal operators shows that since the coal dust standard was issued, coal dust levels have declined significantly, and that in each of the last three years (2016–2018) 99% of all samples were in compliance with the new standard.⁵⁵

Thus far, the Trump administration largely has maintained MSHA's enforcement programs and policies, but there has been a decline in some enforcement activities. Preliminary data from MSHA shows that in 2018, overall enforcement for coal mines was similar to enforcement activities in CY 2017, and that compared with CY 2016, the number of citations and orders issued and penalties assessed has increased. In 2018, there were 46,854 coal mine citations, with \$30.8 million in penalties assessed. This compares with 40,508 citations issued and \$25.9 million in penalties assessed in 2016. However, in metal and nonmetal mining, in 2018, there was a marked reduction in enforcement activity from 2016 and 2017. The number of citations in metal and nonmetal mining in 2018 (50,945) declined by 10% compared with CY 2016 (56,522), and the amount of penalties assessed declined from \$26.1 million in 2016 to \$22.7 million in 2018.⁵⁶

⁵³ Mine Safety and Health Administration. Mine Injury and Worktime, Quarterly January–December 2018 (Preliminary), *available at* <https://arlweb.msha.gov/Stats/Part50/WQ/2018/MIWQ%20Report%20CY%202018%20Q4.pdf>.

⁵⁴ Mine Safety and Health Administration 30 CFR Parts 70, 71, 72, 75 and 90. Retrospective Study of Respirable Coal Mine Dust Rule, Request for Information. 83 Fed. Reg. 31710, July 9, 2018.

⁵⁵ Zatezalo, David G., Assistant Secretary of Labor, Mine Safety and Health Administration. MSHA: 2018 in Review and a Look Ahead, PowerPoint presentation, SME Annual Conference & Expo Coal and Energy Luncheon, Denver, Feb. 26, 2019, *available at* www.msha.gov/sites/default/files/events/SME%20presentation%202-26-19.pdf.

⁵⁶ Mine Safety and Health Administration, Mine Safety at a Glance: 4/1/19.

In 2018, the number of impact inspections for high-hazard mines declined significantly in both coal mines (32 inspections in 2018 compared with 123 in 2017 and 128 in 2016) and metal and nonmetal mines (37 inspections in 2018 compared with 45 inspections in 2017 compared with 61 in 2016). In 2018, there were no mines placed on the potential pattern of violations list, as was the case in 2017 and 2016. Since the POV program was initiated in 2010, the number of mines on the POV list has declined significantly—from 51 placed on the list in 2010, demonstrating that this program has been effective in reducing repeated serious violations by mining operators.

For FY 2020, the Trump administration has proposed a budget that would provide \$252.6 million for mine enforcement, reorganizing the MSHA enforcement to combine the coal mine enforcement and metal and nonmetal enforcement into one program. This compares with \$254.5 million in current total funding for coal mine and metal and nonmetal enforcement programs in FY 2019. MSHA has justified this reorganization in order to use resources more efficiently and to direct more resources to metal and nonmetal mining, which is growing, while coal mine activity continues to decline. As noted earlier, there are concerns that this consolidation will reduce the expertise in and effectiveness of the current mine safety enforcement programs.

In 2018, there was also a decline in MSHA's enforcement activity for miners' discrimination complaints. In 2018, MSHA filed 26 discrimination complaints on behalf of miners and sought reinstatement for 16 miners, down from down from 31 complaints and 16 reinstatements in 2017 and 45 complaints and 21 reinstatements in 2016. It is not clear why the number of cases declined.

There is concern that the Trump administration is limiting miners' rights under the Mine Act. In July 2017, the administration launched a training assistance initiative in response to an increase in coal mine fatalities and injuries among less experienced miners. Under this initiative, MSHA inspectors visit mines to provide training and assistance to less-experienced miners. During these visits, MSHA inspectors leave their credentials at the office and have no authority to enforce mine safety violations that are identified. Moreover, during these visits, miners' representatives are not permitted to walk around with the MSHA inspector as is provided under section 103(f) of the Mine Act. Thus the knowledge and experience of these trained representatives is ignored.

The last year of the Obama administration was the safest on record for the mining industry, with record low fatalities and injuries reported. In the first year of the Trump administration (2017), overall mining fatalities increased from 25 to 28 deaths. Coal mine fatalities jumped from eight to 15 deaths, while metal and nonmetal fatalities declined from 17 to 13 deaths. Preliminary data from MSHA for 2018 reports 27 overall fatalities in mining, with a decline in coal mine deaths from 2017 to 12 deaths, and an increase in metal and nonmetal deaths to 15. The increase in coal mine deaths in 2017 and metal and nonmetal deaths in 2018 should serve as a warning that strong safety and health protections for miners must be maintained. Any rollbacks or weakening of protections will put miners in danger and lead to more unnecessary deaths and injuries.

KEY ISSUES IN SAFETY AND HEALTH: STATUS AND PROGRESS

There are a large number of safety and health hazards and issues in need of attention. But there are several issues that pose broad and growing threats to workers that warrant special focus and action.

Workplace Violence

Workplace violence is a major problem that is getting worse for workers in the United States. It is the third-leading cause of death on the job and the fifth-leading cause of nonfatal injury with days away from work in private industry. In 2017, one in every six work-related deaths was attributed to workplace violence for a total of 807—more than from equipment or fires and explosions. This is down from 866 in 2016 and a significant increase from 703 in 2015.

During the Obama administration, OSHA enhanced enforcement on workplace violence using the general duty clause of the OSH Act, updated guidance documents and committed to developing a workplace violence standard. But the Trump administration has failed to act. New legislation, the Workplace Violence Prevention for Health Care and Social Service Workers Act (H.R. 1309, S. 851), would require federal OSHA to promulgate a standard to protect these workers at especially high risk of violence on the job. A recent court decision supports the need for an OSHA standard, recognizing workplace violence as a serious hazard that can be controlled, and that workers need protection from this growing threat.

Homicides and Suicides

Homicides account for the majority of workplace violence deaths: 458 in 2017, compared with 500 in 2016 and 417 in 2015. Eighty-three of these homicides were among women workers, a proportion that has increased since last year despite a slight overall decline in total workplace homicides. In 2017, workplace homicide was the second-leading cause of job death for women workers, accounting for 22% of their work-related fatalities (roadway incidents was first). Domestic violence in the workplace has become a worsening problem; women were three times more likely to be killed by a relative or domestic partner at work than men.

White workers experienced 48% of workplace homicides and Hispanic or Latino workers experienced 15% of homicides. Homicides among black workers and Asian workers were disproportionate related to overall employment: Black workers experienced 25% of workplace homicides, while representing only 12% of total employment, and Asian workers experienced 10% of homicides, while representing 6% of total employment. Overall, homicides were responsible for 31% of all work-related deaths among Asian workers (44 out of 144 deaths), 21% among black workers (113 out of 530 deaths), 8% among Latino workers (68 out of 903 deaths) and 6% among white workers (220 out of 3,449 deaths).

Workplace homicides largely occur in transportation, law enforcement and retail, with motor vehicle operators (49 deaths), law enforcement personnel (46 deaths) and supervisors of sales workers (46 deaths) the leading occupations. The leading source of death from workplace homicide was assault by an assailant or suspect (235 deaths). Firearms were the primary source involved in workplace homicides, responsible for 355 workplace deaths.

Two hundred and seventy-five workers committed suicide at work in 2017; 2016 experienced the largest number of work-related suicides since BLS began reporting this data in 1992 (291 deaths), a 27% increase from the previous year. The last major increase in workplace suicides was just as the recession hit in 2008, when workplace suicides increased by 33%. Hopelessness, uncertainty and toxic work environments that include increased work pressures, workplace bullying and lack of control most likely have contributed to this growing problem. One study published by NIOSH examined U.S. workplace suicides from 2003 to 2010.⁵⁷ In that time period, 1,719 people died by workplace suicide. According to the study results, workplace suicides were highest for men, workers ages 65 to 74 years, those in protective service occupations and those in farming, fishing and forestry.

Nonfatal, Serious Injuries

The majority of nonfatal injuries from violence occur in health care, social assistance and educational services. The Bureau of Labor Statistics reported that in private industry, nearly 29,000 workplace violence incidents led to injuries involving days away from work in 2017. These attacks are serious, under-reported and often leave workers physically and emotionally scarred for life. Women workers experience two-thirds of these serious injuries.

Even as the reported overall U.S. injury and illness rate has steadily declined since 1992—by 71% overall—the injury rate for workplace violence decreased until the late 1990s, then increased to 4.0 per 10,000 workers. All of these numbers and rates only reflect injuries that led to days away from work, not all violence-related injuries reported or all that occur.

Health care workers are twice as likely to suffer a workplace violence injury as other occupations, and workers in psychiatric settings are at especially great risk, with a workplace violence injury rate of 181.1 per 10,000 workers—the highest ever recorded for this industry. Work-related violence is increasing in other areas, too. In 2017, transit and intercity bus drivers and school or special client bus drivers experienced serious violence injuries at rates of 17.0 and 9.2 per 10,000 workers, respectively. Since 2008, the rate of workplace violence injuries has increased 127% in private-sector educational services, 233% in state government and 118% in local government.

Health Care and Social Assistance

Workers in the health care and social service industries are particularly affected. The nature of their frontline work—direct contact with patients and clients—makes these workers at great risk for job-related violence. There were 27 homicides among workers in health care and social assistance in 2017, compared with 29 in 2016 and 15 in 2015.

In 2017, the health care and social assistance sector accounted for 68% of lost-time injuries from workplace violence (excluding violence from animal and insects). Workers in nursing and residential care facilities experienced the greatest number of injuries from violence, followed by those in hospitals, social assistance and educational services. Nursing, psychiatric and home health aides, registered nurses and personal care aides were the occupations at greatest risk of

⁵⁷ Tiesman, H.M., S. Konda, D. Hartley, C. Chamont Menendez, M. Ridenour and S. Hendricks, “Suicide in U.S. Workplaces, 2003–2010: A Comparison With Non-Workplace Suicides,” Vol. 48, Issue 6, pp. 674–682, June 2015, available at [www.ajpmonline.org/article/S0749-3797\(14\)00722-3/abstract](http://www.ajpmonline.org/article/S0749-3797(14)00722-3/abstract).

injuries from violence, and patients were responsible for 49% of reported injuries related to violence.

In 2017, the private-sector rate of workplace violence in health care and social assistance was 14.7 per 10,000 workers, an increase of 67% since 2007. During the same decade, workplace violence rates for hospitals increased 130%–201% for psychiatric hospitals in particular. Since 2007, the rate of violence in nursing and residential care facilities has increased 54%, in home health services 184%, and in social assistance 28%, although this difference has fluctuated over time and last year was much higher at 118%. Home-based services such as home health, client management and social services have been playing a larger role in physical and mental care.

Public-sector workers are at even greater risk from workplace violence. In 2017, state government health care and social service workers were *nearly nine times* more likely to be assaulted than private-sector health care workers (128.9 vs. 14.7 per 10,000 workers). In state government, psychiatric aides experienced injuries caused by violence at a rate of 693.4 per 10,000 workers; psychiatric technicians at 591.4 per 10,000 workers; nursing, psychiatric and home health aides at 339.9 per 10,000 workers; health care support occupations at 256.0 per 10,000 workers; and nursing assistants at 155.2 per 10,000 workers. Survey results released in 2012 by the Merit Systems Protection Board reported that one in eight federal government employees witnessed workplace violence.⁵⁸ The majority of these accounts came from the Veterans Administration, where 23% of employees said they had witnessed at least one act of violence at work over a two-year period.

This violence against health care and social service workers is foreseeable and preventable. With the expected job growth in the health care and social assistance sectors, workplace violence events will continue to rise without safeguards in place. Workplace controls are more necessary than ever to address this systemic and serious issue, and reduce the prevalence and severity of violence in the workplace.

OSHA Guidelines and Enforcement

During the Obama administration, in the absence of a federal standard, OSHA enhanced its efforts to address the growing problem of workplace violence through guidelines and enforcement initiatives using the general duty clause (Section 5(a)(1) of the OSH Act).

In April 2015, OSHA updated its “Guidelines for Preventing Workplace Violence for Healthcare and Social Service Workers,”⁵⁹ a comprehensive document outlining the contents of violence prevention programs using hazard assessments and the hierarchy of controls. Earlier, OSHA issued several guidance documents for other high-risk populations, including “Recommendations for Workplace Violence Prevention Programs in Late-Night Retail Establishments,” and a fact

⁵⁸ U.S. Merit Systems Protection Board, “Employee Perceptions of Federal Workplace Violence: A Report to the President and the Congress of the United States,” 2012, *available at* www.mspb.gov/netsearch/viewdocs.aspx?docnumber=759001&version=761840&application=ACROBAT.

⁵⁹ U.S. Department of Labor, OSHA, “Guidelines for Preventing Workplace Violence for Healthcare and Social Service Workers,” April 2015, *available at* www.osha.gov/Publications/osha3148.pdf.

sheet, “Preventing Violence against Taxi and For-Hire Drivers.”^{60,61}

In 2011, OSHA issued a directive, “Enforcement Procedures for Investigating or Inspecting Incidents of Workplace Violence,” which established uniform procedures for OSHA field staff when responding to incidents and complaints of workplace violence and conducting inspections in industries with a high risk of workplace violence, including health care and social service settings and late-night retail establishments.⁶² In January 2017, the agency issued a new directive, “Enforcement Procedures and Scheduling for Occupational Exposure to Workplace Violence.” This directive clarifies the different types of health care settings where workplace violence incidents are reasonably foreseeable; expands the OSHA recognized high-risk industries to include corrections and taxi driving; and provides more resources and guidance to OSHA inspectors.⁶³

In 2016, federal OSHA Region VIII (Billings, Bismarck, Sioux Falls, Denver and Englewood) instituted a regional emphasis program in residential mental intellectual and developmental disability facilities (NAICS 623210), focused on workplace violence hazards.⁶⁴ This program was renewed in 2017 and in 2018.

OSHA’s enhanced enforcement efforts resulted in an increased number of workplace violence inspections conducted and citations for general duty clause violations during the Obama administration. To date, the Trump administration has continued these programs, but there has been a decline in the number of workplace violence inspections conducted and citations issued.

In FY 2018, OSHA conducted 78 workplace violence inspections—10 of these involved a fatality or catastrophe. OSHA issued two serious violations that each resulted in an initial penalty of \$12,934 and two repeat violations that each resulted in an initial penalty of \$71,137.

In FY 2017, OSHA conducted 85 workplace violence inspections—four of these involved a fatality or catastrophe. OSHA issued six serious violations that resulted in an initial median penalty of \$11,525.

In FY 2016, OSHA conducted 124 workplace violence inspections—15 of these involved a fatality or catastrophe. OSHA issued nine serious violations that resulted in a current median penalty of \$12,471 and two willful serious violations that resulted in a current median penalty of \$42,000.

⁶⁰ U.S. Department of Labor, OSHA, “Recommendations for Workplace Violence Prevention Programs in Late-Night Retail Establishments,” OSHA 3153-12R, 2009, *available at* www.osha.gov/Publications/osha3153.pdf.

⁶¹ U.S. Department of Labor, OSHA, “Preventing Violence against Taxi and For-Hire Drivers,” April 2010, *available at* www.osha.gov/Publications/taxi-driver-violence-factsheet.pdf.

⁶² U.S. Department of Labor, OSHA, “Enforcement Procedures for Investigating or Inspecting Workplace Violence,” CPL 02-01-052, Sept. 8, 2011.

⁶³ U.S. Department of Labor, OSHA, “Enforcement Procedures and Scheduling for Occupational Exposure to Workplace Violence,” CPL 02-01-058, Jan. 10, 2017.

⁶⁴ U.S. Department of Labor, OSHA, “Regional Notice 17-09 (CPL04-01),” Oct. 1, 2016, *available at* www.osha.gov/dep/leps/RegionVIII/reg8_fy2017_17-09_workplace_violence.pdf.

This compares with 33 inspections in FY 2015, 90 inspections in FY 2014 and 91 inspections in FY 2013.

Where there are workplace violence hazards, but OSHA may not issue a general duty clause citation, the agency can issue a Hazard Alert Letter—a voluntary measure that warns employers about the dangers of workplace violence and identifies corrective actions. OSHA issued HALs in 60 investigations in FY 2018, 64 in FY 2017, 71 in FY 2016, 18 in FY 2015, two in FY 2014 and five in FY 2013.

The need for enhanced efforts by OSHA to address workplace violence was underscored by a March 2016 report by the U.S. Government Accountability Office. The report, “Additional Efforts Needed to Help Protect Health Care Workers from Workplace Violence,” examined the magnitude of the problem, existing workplace violence prevention programs and policies, state and local ordinances and the need for these programs and policies, including the need for an OSHA workplace violence prevention standard for health care and social service workers. The report found that workplace violence is a serious and growing concern for 15 million health care workers, and is preventable through violence prevention programs.⁶⁵ The GAO recommended that OSHA improve workplace violence citation training for its inspectors, follow up on Hazard Alert Letters, assess current efforts and determine whether the agency should take regulatory action.

A recent decision by the Occupational Safety and Health Review Commission affirmed OSHA’s authority to enforce against workplace violence hazards under the general duty clause. In March 2019, OSHRC issued a 3-0 decision in *Secretary of Labor v. Integra Health Management Inc.*, finding that workplace violence is a serious and recognized hazard that can be feasibly controlled and mitigated.⁶⁶ This case involved the death of a young woman caseworker stabbed by a home-based client in 2012. Following an investigation, OSHA cited Integra for a serious violation of Section 5(a)(1) of the Occupational Safety and Health Act, the general duty clause, for exposing employees to “the hazard of being physically assaulted by members with a history of violent behavior,” and for failing to report the employee’s death in a timely manner to OSHA. OSHA sought a total of \$10,500 in penalties. In 2015, an administrative law judge upheld the citations, but the employer appealed the case to the full review commission, where it was pending since July 2015. The AFL-CIO and several unions filed briefs in support of OSHA’s citations against Integra, citing OSHA’s clear authority over enforcing violence prevention in the workplace and experience in workplace violence recognition and abatement measures, as well as industry recognition of the problem.⁶⁷

While this ruling will assist OSHA in enforcing against workplace violence hazards, OSHA’s authority to use the general duty clause is limited. Securing a general duty clause citation

⁶⁵ U.S. Government Accountability Office, “Additional Efforts Needed to Help Protect Health Care Workers from Workplace Violence,” March 2016, *available at* www.gao.gov/products/GAO-16-11.

⁶⁶ U.S. Occupational Safety and Health Review Commission, *Secretary of Labor v. Integra Health Management, Inc.*, OSHRC Docket No. 13-1124, March 4, 2019, *available at* [www.oshrc.gov/assets/1/18/Integra Health Management, Inc. Docket 13-1124 Combined post.pdf?8328](http://www.oshrc.gov/assets/1/18/Integra_Health_Management,_Inc._Docket_13-1124_Combined_post.pdf?8328).

⁶⁷ Brief of the American Federation of Labor and Congress of Industrial Organizations as *Amicus Curiae* in Support of Complainant, Secretary Of Labor, OSHRC Docket No. 13-1124, Dec. 18, 2015.

requires a higher burden than having an enforceable standard that outlines for the employer the requirements specific to workplace violence.

OSHA under the Trump administration has taken very limited action on workplace violence, despite the severity of the issue and the ability to mitigate it in specific settings. In FY 2018, the agency only issued two serious and two repeat violations for workplace violence, compared with six serious violations in FY 2017 and nine serious and two willful violations in FY 2016. The total number of workplace violence inspections by the agency has decreased since the beginning of the Trump administration.

Federal Regulatory Action

In response to the growing threat from workplace violence, there have been increased efforts to secure workplace violence protections through mandatory regulations. In July 2016, a coalition of unions petitioned OSHA to develop a federal workplace violence standard for health care and social assistance workers.⁶⁸ Another union petition was filed seeking a standard in the health care sector. In response to the petitions, OSHA issued a request for information to seek input and information on a workplace violence standard, and in early January 2017 held a public meeting of interested stakeholders. At the meeting, the Obama administration announced that OSHA was accepting the petitions and would develop and promulgate a workplace violence standard for health care and social assistance, a critical first step in the process for federal OSHA to protect workers.

However, the Trump administration has failed to move forward on the development of the workplace violence standard. In July 2017, in its first regulatory agenda, the administration moved the standard to “long-term” status, with future action on the standard undetermined. In Fall 2017, the workplace violence standard for the health care and social service sectors was put back on the agenda, but it is moving at a snail’s pace. A small business review originally slated to begin in January 2019 has yet to occur, and the administration has declined to provide any information on when a proposed or final standard will be issued.

In February 2019, Rep. Joe Courtney (D-Conn.) and Sen. Tammy Baldwin (D-Wis.) introduced legislation—The Workplace Violence Prevention for Health Care and Social Service Workers Act (H.R. 1309, S. 851)—to help protect these workers. The bill requires OSHA to issue a federal workplace violence prevention standard, requiring employers in the health care and social service sectors to develop and implement a plan to identify and control workplace violence hazards. The bill ensures that front-line workers have input in the plan, helping employers identify commonsense measures like alarm devices, lighting, security, and surveillance and monitoring systems to reduce the risk of violent assaults and injuries. The legislation would ensure OSHA protections against violence for all covered workers in the scope of the bill, regardless of whether they otherwise have OSHA coverage in their state. The bill incorporates important elements from OSHA’s current “Guidelines for Preventing Workplace Violence for Healthcare and Social Service Workers.”

⁶⁸ “Labor Organizations Petitioning the U.S. Department of Labor for an OSHA Workplace Violence Prevention Standard for Healthcare and Social Assistance,” July 12, 2016, *available at* www.safetyandhealthmagazine.com/ext/resources/document-downloads/unions-petition.pdf.

The House Education and Labor Committee held a hearing on the bill shortly after introduction, and action on the legislation by the committee and the full House of Representatives is expected this year.

State Regulations and Legislation

A number of states have taken action to adopt laws, standards and policies on workplace violence, which vary widely. In December 2016, the California Department of Industrial Relations filed its final workplace violence standard with the California secretary of state, with an effective date of April 1, 2017.⁶⁹ This comprehensive standard, issued in response to a legislative mandate, protects health care workers in the public and private sectors from workplace violence. It was developed through consensus rulemaking, and it is a good model for a comprehensive regulatory approach to combat workplace violence. In response to a 2014 petition from a teacher, the California Occupational Safety and Health Standards Board tasked an advisory committee to examine workplace violence prevention in *all* California workplaces, which currently is going through the state process to develop a workplace violence standard for all of general industry.

New York passed a comprehensive workplace violence standard in 2006, but it only covers the public sector.⁷⁰ Public employers are required to develop and implement programs to prevent and minimize workplace violence. Connecticut, Illinois, Maryland, New Jersey and Washington have adopted some form of legislation specifically focused on health care settings. The Maryland legislation, which was implemented on Oct. 1, 2014, addresses all workplace injuries in health care facilities by means of an overall safety program, which includes workplace violence hazards. The measure requires public and private health care employers to establish a safety committee consisting of management and employees, and it requires the committee to establish a safety program that consists of: 1) a written policy; 2) an annual comprehensive risk assessment and recommendations for injury prevention; 3) a process for reporting, responding to and tracking incidents of workplace injuries; and 4) regular safety and health training.

State and local ordinances are an important piece in addressing workplace policies and practices related to workplace violence, but workers need a strong, comprehensive OSHA standard to address this growing national problem.

Chemical Exposure Limits and Standards

Occupational exposure to toxic substances poses a significant and unreasonable risk to millions of workers and is a major cause of acute and chronic disease in the United States. Occupational diseases caused by chemical exposures are responsible for more than 50,000 deaths and 190,000 illnesses each year, including cancers and other lung, kidney, skin, heart, stomach, brain, nerve

⁶⁹ "Workplace Violence Prevention in Health Care," General safety orders, New Section: 3342," effective April 1, 2017, *available at* www.dir.ca.gov/oshsb/Workplace-Violence-Prevention-in-Health-Care.html.

⁷⁰ "Public Employer Workplace Violence Prevention Programs," 12 NYCRR PART 800.6, effective June 7, 2006, *available at* <https://labor.ny.gov/workerprotection/safetyhealth/PDFs/PESH/WPV/Workplace%20Violence%20Prevention%20Regulations.pdf>.

and reproductive diseases.^{71,72} Many of these diseases are chronic, serious and disabling for millions of workers, and impair their professional and personal lives; this problem largely goes under-reported, and its effects are understated. The costs of fatal and nonfatal occupational illnesses from chemical exposures create an enormous burden on the U.S. public health system.⁷³

Workers face particular risks from chemical exposures. They make chemicals or are otherwise exposed early in the chemical life cycle, often at the highest exposures, for long durations, when little to no hazard information is known; are a conduit for bringing chemicals home to their families via clothing, equipment, skin and hair; and dispose of chemicals and sort through chemical-containing waste. It is not inevitable that workers develop diseases because of their work with chemicals. Where proper controls are installed or safer alternatives are used, exposures can be controlled and diseases prevented.

OSHA has issued standards on some major chemical hazards, including benzene, asbestos and lead, that have significantly reduced exposures and disease. But relatively few chemical standards have been issued, and most chemicals hazards are unregulated.

A law passed in 2016 created a key opportunity through EPA to improve the federal process for assessing chemical toxicity and strengthening worker protections from chemical exposure. However, the Trump administration and the chemical corporations have derailed EPA's efforts to fulfill its legislative mandate and protect workers and the public from dangerous chemical exposures.

History: OSHA and Chemicals

One of the Occupational Safety and Health Administration's primary responsibilities is to set standards to protect workers from toxic substances. Since Congress enacted the Occupational Safety and Health Act in 1970, OSHA has issued comprehensive health standards for only 18 individual chemicals and one separate rule for 14 carcinogens. OSHA issued most of its chemical standards in its first two decades, and only after the chemical had been making workers sick for a long time. The most recent were silica in 2016 and beryllium at the beginning of 2017. Today there are approximately 84,000 chemicals in commerce, most of them unregulated.⁷⁴

The OSHA permissible exposure limits in place under 29 CFR 1910.1000 that govern exposure for approximately 400 toxic substances were adopted in 1971 and codified the American Conference of Government Industrial Hygienists' Threshold Limit Values from 1968.⁷⁵ Most of

⁷¹ Wilson, M.P., D.A. Chia and B.C. Ehlers, "Green Chemistry in California: A Framework for Leadership in Chemicals Policy and Innovation," California Policy Research Center, University of California, 2006.

⁷² Takala, J., P. Hämäläinen, K.L. Saarela, L. Yoke Yun, K. Manickam, T. Wee Jin, P. Heng, C. Tjong, L. Guan Kheng, S. Lim and G. Siok Lin (2014), "Global Estimates of the Burden of Injury and Illness at Work in 2012," Journal of Occupational and Environmental Hygiene, 11:5, 326–337, DOI: [10.1080/15459624.2013.863131](https://doi.org/10.1080/15459624.2013.863131).

⁷³ Leigh, J.P., "Economic Burden of Occupational Injury and Illness in the United States," The Milbank Quarterly, Vol. 89, No. 4, 2011.

⁷⁴ Roundtable on Environmental Health Sciences, Research, and Medicine, Board on Population Health and Public Health Practice, Institute of Medicine, Washington, D.C., Oct. 2, 2014, *available at* www.nap.edu/catalog/18710/identifying-and-reducing-environmental-health-risks-of-chemicals-in-our-society.

⁷⁵ OSHA, Annotated PELs, *available at* www.osha.gov/dsg/annotated-pels/.

these limits were set by ACGIH in the 1940s and 1950s, based upon the scientific evidence then available. Many chemicals now recognized as hazardous were not covered by the 1968 limits, and many of the others with PELs are woefully outdated. In 1989, OSHA attempted to update these limits, but the revised rule was overturned by the courts because the agency failed to make the risk and feasibility determinations as required by the OSH Act.

Several years ago, the American Industrial Hygiene Association, major industry groups and labor attempted to reach agreement on a new approach to update permissible exposure limits through a shorter process that would allow quick adoption of new limits that were agreed upon by consensus. Unfortunately, those efforts stalled when small business groups objected to an expedited process that would apply to a large number of chemicals, and the Bush administration refused to take a leadership role in developing and advancing an improved process for setting updated exposure limits.

In October 2013, OSHA made an annotated comparison list of the legal and recommended exposure limits for chemical substances as a tool to assist in the assessment and control of exposures. The agency tables compare OSHA PELs for general industry, the California Division of Occupational Safety and Health PELs, National Institute for Occupational Safety and Health-recommended exposure limits and American Conference of Governmental Industrial Hygienist threshold limit values.⁷⁶ At the same time, the agency unveiled a web-based toolkit to assist employers and workers to identify safer chemicals that can be used in place of more hazardous ones. However, this is only guidance information, and since it was posted, there have been no signals for increased action on enforcement in this area. In October 2014, OSHA issued a Request for Information requesting comments on approaches to improving the management of chemical exposures and updating permissible exposure limits. The agency's intent of this RFI was never clear and OSHA's work remains stalled on chemicals. In the most recent unified regulatory agenda—issued on Dec. 14, 2017—the Trump administration removed all chemical regulatory activity for OSHA in the near future, including the development of standards on styrene and bromopropane, and updates in PELs.⁷⁷

OSHA's system for addressing toxic substances is broken. Its standard-setting process has become unduly burdensome and lengthy, and the agency is not under strict timelines to establish protections from chemicals. The result of all of this is that OSHA does not regulate many serious chemical hazards at all, or some chemicals are subject to weak and out-of-date requirements, and people remain unprotected from chemical hazards at work.

Even where OSHA has regulated chemicals, OSHA protections alone are not sufficient to protect workers from dangerous chemicals. Many workers in the United States are not covered by the OSH Act. Currently, 8 million public-sector workers, including many firefighters and teachers; 15 million self-employed workers; 350,000 workers in the mining industry; and many agricultural workers on small farms are not afforded safety and health protections under the OSH Act. Even where OSHA has coverage, OSHA is staffed with so few resources that it would take federal OSHA inspectors 165 years to visit every workplace in the country once. Unions have

⁷⁶ www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=NEWS_RELEASES&p_id=24990.

⁷⁷ Current Regulatory Plan and the Unified Agenda of Regulatory and Deregulatory Actions, available at www.reginfo.gov/public/do/eAgendaMain.

some ability to bring in OSHA to help investigate a chemical issue at work, but access to OSHA for unorganized workers, especially as it relates to chemical exposures, is much more difficult—and OSHA has not had a lot of success bringing forward enforcement cases on any unregulated chemical exposure in a union or nonunion setting.

Some states, including California and Washington, have done a better job updating exposure limits, and as a result, workers in those states have much better protection against exposure to toxic substances. California recently resumed activity on chemicals through its Health Effects Advisory Committee, prioritizing chemicals for which to establish PELs.⁷⁸

EPA: Opportunity for Progress

The Toxic Substance Control Act passed by Congress in 1976 aimed to protect the public from dangerous chemical exposures and prevent disease by giving the Environmental Protection Agency authority to regulate chemicals throughout the environment and chemicals being newly manufactured. Lawmakers intended the original law to be a gap-filling statute, giving EPA co-existing and compatible authority with other agencies over chemical exposures. But court decisions thwarted EPA's efforts to regulate even the most dangerous chemicals, including asbestos, and left TSCA toothless and ineffective in protecting people from exposure to chemicals.

In 2016, Congress passed the Frank R. Lautenberg Chemical Safety for the 21st Century Act (LSCA), a bipartisan effort to update and address the deficiencies of the original TSCA. This update assigned EPA a specific mandate to include workers as a potentially vulnerable subpopulation at particular risk to disease from chemicals, and gave authority to EPA to eliminate or reduce that risk, through regulation or bans, for chemicals that have been in use for decades and for chemicals new to the market. Further, the revised act gives EPA authority to prioritize and evaluate chemicals that pose a danger to human health or the environment where: 1) other agencies cannot or will not adequately regulate a substance, or 2) the substance is already regulated, albeit ineffectively, by another agency, such as OSHA. Importantly, EPA must prioritize and assess unregulated or inadequately regulated chemicals on a strict timeline in order to protect people and prevent disease.

Soon after the law was passed, EPA was required to identify 10 priority chemicals to expedite through the risk evaluation and risk management processes since the agency already had done extensive work on these chemicals throughout the years. In December 2017, EPA identified these as:

- 1,4-Dioxane
- 1-Bromopropane
- Asbestos
- Carbon Tetrachloride
- Cyclic Aliphatic Bromide Cluster (Hexabromocyclododecane or HBCD)
- Methylene Chloride⁷⁹
- N-Methylpyrrolidone (NMP)

⁷⁸ www.dir.ca.gov/dosh/DoshReg/5155Meetings.html.

⁷⁹ Michaels, David, Letter to Jim Jones, Assistant Administrator, Office of Chemical Safety and Pollution Prevention, April 6, 2016, available at <http://src.bna.com/hU4>.

Pigment Violet 29 (Anthra[2,1,9-def:6,5,10-d'e'f]diisoquinoline-1,3,8,10(2H,9H)-tetrone)
Tetrachloroethylene (PERC)
Trichloroethylene (TCE)

In Spring 2018, EPA proposed its next round of 20 high-priority and 20 low-priority chemicals—once finalized, the high-priority chemicals will be further assessed through risk evaluation and risk management under TSCA. EPA must consult with other agencies throughout the process regarding relevant exposures, controls and regulatory action.

Before LSCA, EPA helped prevent chemical exposures in workplaces by requiring worker protections for new chemicals or new uses, including engineering and work practice controls such as ventilation requirements and changing processes, and some exposure limits. Under LSCA, EPA has authority that OSHA does not have, such as the ability to: 1) regulate, enforce or compel data from manufacturers; 2) ban a chemical; and 3) require substitution with a safer chemical or process.

TSCA Under the Trump Administration

Seven months after Congress passed LSCA, the Trump administration took office. While the Obama administration's EPA had been meeting strict deadlines outlined in the law, the Trump administration has delayed issuing chemical assessments, weakened the protections proposed by the previous administration and narrowed the scope of uses that the agency will assess. The law, specifically requires EPA to examine all uses of a chemical in its lifecycle and to make decisions based on health reasons only—not cost or impact on business—and to do so under strict timelines.

Since the Trump administration took office, EPA has weakened the two major framework rules on the methods for prioritizing and assessing chemicals, compared with the proposals issued under the Obama administration. These framework rules will set the stage for all future implementation of the new chemical law. The agency released scoping documents for its 10 priority chemicals that totally ignored major occupational uses and scenarios and shifted its responsibility to OSHA, despite EPA's responsibility under the law to address worker exposures throughout a chemical lifecycle.

For example, in its scoping document for asbestos, EPA removed legacy uses of asbestos from its regulatory scope, even though these uses are the major cause of occupational and public asbestos exposure in the United States today—they may be legacy uses, but are not legacy exposures. The agency has made slow progress on regulating the 10 priority chemicals listed above. To date, the agency only has released a draft risk evaluation for one of these chemicals—Pigment Violet 29. EPA recently issued a ban on consumer uses of methylene chloride, but not industrial uses. The agency is behind on deadlines for releasing the draft risk evaluations for the remaining 10 priority chemicals.

The amended law gave EPA more authority to put in place more protections on new chemicals coming onto the market. Under the Trump administration, EPA so far has emphasized voluntary approaches by employers rather than using its enforcement authority to require employers to implement engineering controls as chemicals move through the supply and use chain.

Specifically, EPA now allows employers to rely on warning statements in Safety Data Sheets that instruct workers to wear personal protective equipment, rather than issue enforceable orders to the company that require the use of more effective controls. An effort by a coalition of chemical companies, called the New Chemicals Coalition, attempted to push EPA's longstanding authority on establishing workplace protections for new chemicals and new uses of chemicals onto OSHA, an agency with no ability to regulate chemicals not introduced yet to the market. EPA's claim that existing general OSHA standards will protect workers misses the mark.

Since 2011, OSHA only has issued 26 general duty clause citations for airborne exposures of (existing, not new) chemicals—there is no OSHA PEL for 19 of these, and for the remaining seven there is only a PEL with no requirements for exposure monitoring or medical surveillance. In the rare case that general duty clause citations have been issued, four major conditions have been true:

- The cases involved clinical health effects experienced by workers at the cited facility, consistent with “serious physical harm”;
- The majority of cases were symptoms with acute onset (minutes to hours) following inhalation that were anticipated to worsen with continued harmful exposure;
- The cases involved occupational exposures to a relatively well-studied chemical/chemical class at very high levels consistent with “recognized hazard”; and
- Violations were issued because evidence documented workers at the facility were physically harmed by a hazardous exposure to the chemical inhaled during workplace operations and not because airborne exposure exceeded an occupational exposure limit.

OSHA does not have the ability to adequately regulate chemical exposures in the workplace, and virtually has no ability to regulate new chemicals—a major reason Congress gave EPA the authority and responsibility to do so under LSCA.

President Trump has filled high positions within the agencies with people closely tied to the chemical industry—at least one of whom actively worked for the chemical industry to derail LSCA implementation (Nancy Beck). President Trump also nominated a toxicologist (Michael Dourson) with a lifetime career paid by the chemical industry to push for higher chemical exposure levels than deemed acceptable by state and federal public health agencies. With pressure from environmental, labor and public health groups, Dourson was not confirmed. Subsequently, President Trump nominated Alexandra Dunn, an environmental lawyer and professor with experience at the state and local level to head the EPA toxic chemical program. Dunn, who was confirmed by the Senate in January 2019, has promised to fully and faithfully implement the toxic chemical reform law, but to date, the regulations and policies issued under her leadership have failed to do so.

The passage of the LSCA is a key opportunity to protect workers and the public from acute and chronic chemical exposures. Despite political setbacks and a current administration closely tied with the chemical industry, unions, public health professionals and other advocates are working to hold EPA to its legislative mandate and to enhance coordination between EPA and OSHA for effective chemical regulation. Working people deserve to be protected from dangerous chemicals and the enormous public health burden of work-related disease.

WHAT NEEDS TO BE DONE

There has been significant progress made toward improving safety and health, and protecting workers from job injuries, illnesses and deaths. The Obama administration issued important regulations on silica, coal dust and other hazards, strengthened enforcement and expanded worker rights. These initiatives have made workplaces safer and saved lives.

But with President Trump in office, this progress is threatened. The Trump administration has carried out an all-out assault on regulations, targeting job safety rules on beryllium, mine examinations and injury reporting, and cutting agency budgets and staff.

With the Democrats now in the majority in the House of Representatives, there is greater opportunity to oppose these anti-worker attacks, hold the Trump administration accountable and push forward to win stronger worker protections.

Continued action is needed to defend the important gains that have been won from legal and political attacks, including OSHA's beryllium standard and injury reporting/anti-retaliation rule.

After years of starvation budgets, funding and staffing for the job safety agencies must be substantially increased to protect workers, and address ongoing and emerging safety and health problems.

OSHA's standard on electronic injury reporting must be defended and implemented, with the data collected made publicly available. The new anti-retaliation protections for workers who report injuries must be fully enforced.

Workplace violence is a growing and serious threat, particularly to women workers and in the health care and social services sector. OSHA must develop and issue a workplace violence standard and Congress should pass the Workplace Violence Prevention for Health Care and Social Service Workers Act to make sure this is done.

Standards also are needed for infectious diseases and combustible dust; standards for chemical hazards are obsolete and must be updated.

EPA must fully implement the new toxic chemicals reform law, taking action to address both the risks to the public and to workers.

Initiatives to address the safety and health risks posed by changes in the workforce and employment arrangements must continue. The serious safety and health problems, and increased risk of fatalities and injuries faced by Latino and immigrant workers, should be given increased attention, and efforts to protect temporary and contract workers enhanced.

At MSHA, initiatives to focus increased attention on mines with a record of repeated violations and stronger enforcement action against mines with patterns of violations must continue. The new coal dust rule must be fully maintained and enforced, and the promised rules on silica and proximity detection for mobile equipment must be issued.

Congress must strengthen job safety laws to prevent tragedies like the Massey Upper Big Branch mining disaster. Improvements in the Mine Safety and Health Act are needed to give MSHA more authority to shut down dangerous mines and to enhance enforcement against repeat violators.

The Occupational Safety and Health Act now is nearly 49 years old and is out of date. Congress should pass the Protecting America's Workers Act to extend the law's coverage to workers currently excluded, strengthen civil and criminal penalties for violations, and strengthen the rights of workers, unions and victims. Improvements to update and strengthen the Occupational Safety and Health Act's anti-retaliation provisions are particularly needed so workers can report job hazards and injuries, and exercise safety and health rights without fear.

The nation must renew its commitment to protect workers from injury, disease and death, and make this a high priority. We must demand that employers meet their responsibilities to protect workers and hold them accountable if they put workers in danger. Only then can the promise of safe jobs for all of America's workers be fulfilled.

**TRUMP
ADMINISTRATION'S
WORKER SAFETY AND HEALTH
RECORD**

Trump Administration's Worker Safety and Health Record

Rollbacks and Repeals

Repealed OSHA rule requiring employers to keep accurate injury records (H.J. Res 83).

Repealed Fair Pay and Safe Workplaces rule to hold federal contractors accountable for obeying safety and labor laws (H.J. Res 37).

Issued Executive Order 13771 requiring that for every new protection, two existing safeguards must be repealed.

Issued Executive Order 13777 requiring agencies to identify regulations that are burdensome to industry that should be repealed or modified.

Proposed FY 2020 budget that would slash the Department of Labor's budget by 10%; cut coal mine enforcement and eliminate worker safety and health training programs; eliminate the Chemical Safety Board; and cut NIOSH's job safety research by \$146 million.

Delaying and Weakening Protections

Proposed to weaken OSHA's new beryllium standard for workers in construction and maritime, after delaying the effective date and enforcement of the rule in all sectors.

Delayed enforcement of OSHA's silica standard in construction for 90 days until Sept. 23, 2017, and full enforcement until Oct. 23, 2017, allowing continued high exposures to deadly silica dust.

Revoked requirement for large employers to report detailed injury data to OSHA after delaying requirement for all employers to submit summary injury data to the agency.

Delayed action on new OSHA standards on workplace violence and emergency planning.

Abandoned work on more than a dozen new OSHA rules including rules on styrene, combustible dust and noise in construction. Suspended work on new OSHA standards on infectious diseases and process safety management.

Withdrew OSHA's walkaround policy that gave nonunion workers the right to have a representative participate in OSHA inspections.

Reviewing MSHA's coal dust standard to determine whether it should be modified to be less burdensome on industry.

Weakened key provisions of MSHA's mine examination rule for metal and nonmetal mines after delaying the rule for months.

Abandoned work on new MSHA rules for civil penalties and refuge alternatives in coal mines, and suspended work on new standards on silica and proximity detection systems for mobile mining equipment.

Proposed to revoke child labor protections for 16- and 17- year-olds working in healthcare that restricted the operation of powered patient lifting devices.

Delayed EPA's RMP rule to prevent chemical accidents for nearly two years, and then proposed to roll back most of the requirements, putting workers, the public and first responders in danger.

Refused to address worker exposures to methylene chloride, asbestos and other hazards in implementing the new toxic chemicals control law.

Limiting Access to Information and Input

Stopped posting information on all worker fatalities reported to OSHA.

Refused to make public employer injury data reported to OSHA, even though similar data has been posted on OSHA's website for years.

Disbanded OSHA's Federal Advisory Council on Occupational Safety and Health Safety and Health (FACOSH) and Whistleblower Protection Advisory Committee (WPAC).

Prepared by: AFL-CIO, April 2019

Trump Administration's OSHA Regulatory Agenda, Fall 2017^{1,2}

| Regulatory Actions | Long-Term Actions | Withdrawn from (Spring 2017) Agenda |
|---|--|--|
| Crane Operator Qualification in Construction—NPRM 11/17 | Process Safety Management and Chemical Safety | Combustible Dust |
| Injury Tracking (Delay)—Final Rule 11/24/17 | Emergency Preparedness and Response | Bromopropane (1-BP) standard |
| Injury Tracking (Proposed Rollback)—NPRM 12/17 | Workplace Violence in Health Care and Social Services | Chemicals Management and PELs |
| Cranes and Derricks in Construction: Exemption Railroad Roadway Work—NPRM 12/17 | Infectious Disease | Backover Injuries |
| Powered Industrial Truck Update—RFI 1/18 | MSD Column | Bloodborne Pathogens: 610 Review |
| Standards Improvement Project IV—Final 2/18 | Update to Hazard Communication | Noise in Construction |
| Technical Corrections to 16 OSHA Standard—Final Rule 2/18 | Shipyards Subpart E: Scaffolds, Ladders and Other Working Surfaces | Styrene |
| Communications Towers—Complete SBREFA 3/18 | Tree Care Standard | Injury and Illness Prevention Programs |
| Mechanical Power Press Update—RFI 3/18 | | Subpart Q (Welding) Update |
| Lockout/Tagout Update—RFI 5/18 | | Updating Requirements for Hearing Protection Devices |
| Puerto Rico State Plan—NPRM 6/18 | | Revocation of Obsolete PELs |
| Agency Practice Concerning OSHA Access to Employee Medical Records—Final Rule 6/18 | | |
| Update Blood Lead Level Removal—ANPRM 7/18 | | |
| Amendments to the Cranes and Derricks in Construction Standard—NPRM 9/18 | | |
| Beryllium: Delay and Proposed Weakening (Construction and Maritime)—Final Rule 9/18 | | |
| Quantitative Fit Testing: Respiratory Protection—Final Rule 9/18 | | |
| | | |

Trump Administration's MSHA Regulatory Agenda, Fall 2017^{1,2}

| Regulatory Actions | Long-Term Actions | Withdrawn from (Spring 2017) Agenda |
|---|--|---|
| Retrospective Review Coal Dust Standard—RFI 12/17 | Respirable Crystalline Silica | Criteria and Procedures for Assessment of Civil Penalties |
| Underground Mines Diesel Exhaust—RFI (Reopen Comment Period) 1/9/18 | Proximity Detection: Mobile Mining Equipment | Refuge Alternatives Underground Coal Mines |
| Alternatives to Petitions for Modification—RFI 4/18 | | Preventing Coal Mine Accidents—RFI, Response to UBB |
| Refuge Alternatives for Underground Coal Mines—Final Rule 4/18 | | |
| Mine Examination—Metal/Nonmetal Mines (Weakening)—Final Rule 6/18 | | |

¹Issued on Dec. 14, 2017.

²The dates on the regulatory agenda are projections set by the administration and may not have occurred by this date.

NATIONAL SAFETY AND HEALTH OVERVIEW

Workplace Fatalities 1970–2007^{1,2}

(Employment-Based Fatality Rates)

| Year | Work Deaths | Employment (000) ³ | Fatality Rate ⁴ |
|-------------------|--------------------|-------------------------------|----------------------------|
| 1970 | 13,800 | 77,700 | 18 |
| 1971 | 13,700 | 78,500 | 17 |
| 1972 | 14,000 | 81,300 | 17 |
| 1973 | 14,300 | 84,300 | 17 |
| 1974 | 13,500 | 86,200 | 16 |
| 1975 | 13,000 | 85,200 | 15 |
| 1976 | 12,500 | 88,100 | 14 |
| 1977 | 12,900 | 91,500 | 14 |
| 1978 | 13,100 | 95,500 | 14 |
| 1979 | 13,000 | 98,300 | 13 |
| 1980 | 13,200 | 98,800 | 13 |
| 1981 | 12,500 | 99,800 | 13 |
| 1982 | 11,900 | 98,800 | 12 |
| 1983 | 11,700 | 100,100 | 12 |
| 1984 | 11,500 | 104,300 | 11 |
| 1985 | 11,500 | 106,400 | 11 |
| 1986 | 11,100 | 108,900 | 10 |
| 1987 | 11,300 | 111,700 | 10 |
| 1988 | 10,800 | 114,300 | 9 |
| 1989 | 10,400 | 116,700 | 9 |
| 1990 | 10,500 | 117,400 | 9 |
| 1991 | 9,900 | 116,400 | 9 |
| 1992 ² | 6,217 | 117,000 | 5.2 |
| 1993 | 6,331 | 118,700 | 5.2 |
| 1994 | 6,632 | 122,400 | 5.3 |
| 1995 | 6,275 | 126,200 | 4.9 |
| 1996 | 6,202 | 127,997 | 4.8 |
| 1997 | 6,238 | 130,810 | 4.8 |
| 1998 | 6,055 | 132,684 | 4.5 |
| 1999 | 6,054 | 134,666 | 4.5 |
| 2000 | 5,920 | 136,377 | 4.3 |
| 2001 | 5,915 ⁵ | 136,252 | 4.3 |
| 2002 | 5,534 | 137,700 | 4.0 |
| 2003 | 5,575 | 138,928 | 4.0 |
| 2004 | 5,764 | 140,411 | 4.1 |
| 2005 | 5,734 | 142,894 | 4.0 |
| 2006 | 5,840 | 145,501 | 4.0 |
| 2007 | 5,657 | 147,215 | 3.8 |

¹Fatality information for 1971 to 1991 from National Safety Council Accident Facts, 1994.

²Fatality information for 1992 to 2007 is from the Bureau of Labor Statistics, Census of Fatal Occupational Injuries. In 1994, the National Safety Council changed its reporting fatalities and adopted the BLS count. The earlier NSC numbers are based on an estimate; the BLS method for workplace numbers are based on an actual census.

³Employment is an annual average of employed civilians 16 years of age and older from the Current Population Survey, adjusted to include data for resident and armed forces from the Department of Defense.

⁴Deaths per 100,000 workers are based on annual average of employed civilians 16 years of age and older from 1992 to 2007. In 2008, CFOI switched from an employment-based fatality rate to an hours-based fatality rate calculation. Employment-based fatality rates should not be compared with hours-based fatality rates.

⁵Excludes fatalities from the events of September 11, 2001.

Workplace Fatalities 2006–2017¹ (Hours-Based Fatality Rates)

| Year | Work Deaths | Total Hours Worked (Millions) ² | Fatality Rate ³ |
|------|-------------|---|----------------------------|
| 2006 | 5,840 | 271,815 | 4.2 |
| 2007 | 5,657 | 275,043 | 4.0 |
| 2008 | 5,214 | 271,958 | 3.7 |
| 2009 | 4,551 | 254,771 | 3.5 |
| 2010 | 4,690 | 255,948 | 3.6 |
| 2011 | 4,693 | 258,293 | 3.5 |
| 2012 | 4,628 | 264,374 | 3.4 |
| 2013 | 4,585 | 268,127 | 3.3 |
| 2014 | 4,821 | 272,663 | 3.4 |
| 2015 | 4,836 | 277,470 | 3.4 |
| 2016 | 5,190 | 283,101 | 3.6 |
| 2017 | 5,147 | 285,977 | 3.5 |

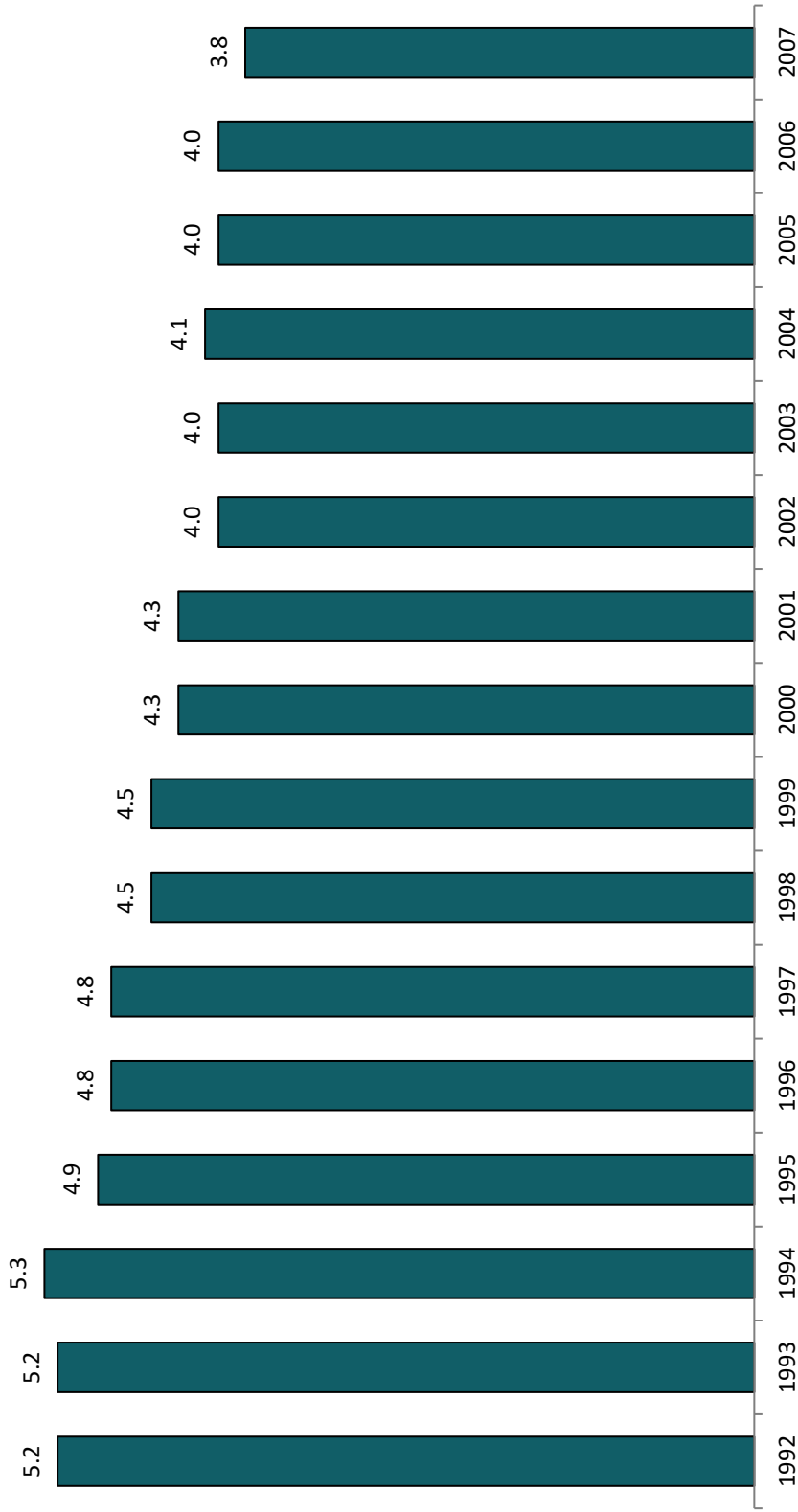
¹Fatality information is from the U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

²The total hours worked figures are annual average estimates of total persons at work multiplied by average hours for civilians, 16 years of age and older, from the Current Population Survey, U.S. Bureau of Labor Statistics.

³Deaths per 100,000 workers. In 2008, CFOI switched to an hours-based fatality rate calculation from an employment-based calculation used from 1992 to 2007. Fatality rates for 2006 and 2007 were calculated by CFOI using both approaches during the transition to hours-based rates beginning exclusively in 2008. Hours-based fatality rates should not be compared directly with the employment-based rates CFOI calculated for 1992 to 2007.

Rate of Fatal Work Injuries Per 100,000 Workers, 1992–2007¹

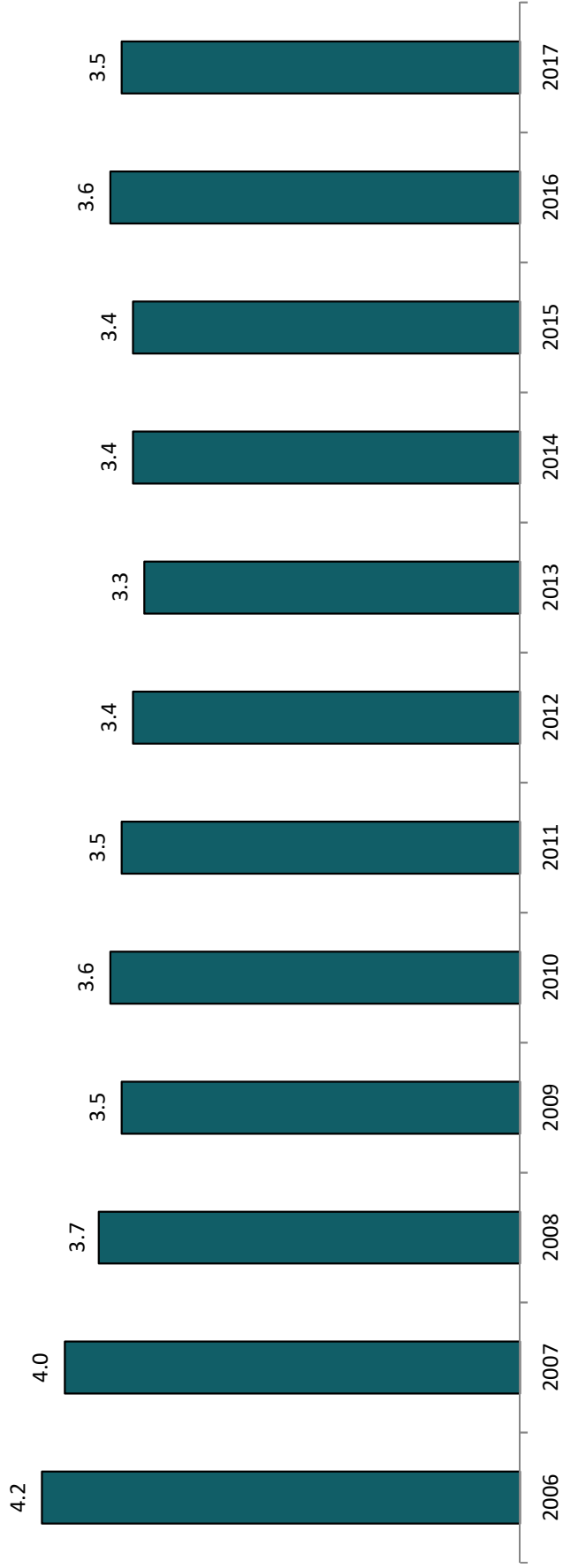
(Employment-Based Rates)



Sources: U.S. Department of Labor, Bureau of Labor Statistics, Current Population Survey, Census of Fatal Occupational Injuries; U.S. Bureau of the Census; and U.S. Department of Defense.

¹Incidence rate represents the number of fatalities per 100,000 workers. Fatality rate is an employment-based calculation using employment figures that are annual average estimates of employed civilians, 16 years of age and older, from the Current Population Survey, U.S. Bureau of Labor Statistics. In 2008, CFOI switched to an hours-based fatality rate calculation. Employment-based fatality rates should not be compared directly with hours-based rates.

Rate of Fatal Work Injuries Per 100,000 Workers, 2006--2017¹ (Hours-Based Rates)



Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries (CFOI).

¹Incidence rate represents the number of fatalities per 100,000 workers. Fatality rate is an hours-based calculation using total hours worked figures that are annual average estimates of total hours at work multiplied by average hours for civilians, 16 years of age and older, from the Current Population Survey (CPS). Hours-based fatality rates should not be compared directly with the employment-based rates CFOI calculated for 1992 to 2007.

Workplace Fatality Rates by Industry Sector, 1970–2002^{1,2}

| Year | All Ind. | Mfg. | Const. | Mining | Gov't | Agri. | Trans/Util. | Ret. Trade | Service | Finance |
|------|----------|------|--------|--------|-------|-------|-------------|------------|---------|---------|
| 1970 | 18.0 | 9 | 69 | 100 | 13 | 64 | N/A | N/A | N/A | N/A |
| 1971 | 17.0 | 9 | 68 | 83 | 13 | 63 | N/A | N/A | N/A | N/A |
| 1972 | 17.0 | 9 | 68 | 100 | 13 | 58 | N/A | N/A | N/A | N/A |
| 1973 | 17.0 | 9 | 56 | 83 | 14 | 58 | 38 | 8 | 11 | N/A |
| 1974 | 16.0 | 8 | 53 | 71 | 13 | 54 | 35 | 7 | 10 | N/A |
| 1975 | 15.0 | 9 | 52 | 63 | 12 | 58 | 33 | 7 | 10 | N/A |
| 1976 | 14.0 | 9 | 45 | 63 | 11 | 54 | 31 | 7 | 9 | N/A |
| 1977 | 14.0 | 9 | 47 | 63 | 11 | 51 | 32 | 6 | 8 | N/A |
| 1978 | 14.0 | 9 | 48 | 56 | 11 | 52 | 29 | 7 | 7 | N/A |
| 1979 | 13.0 | 8 | 46 | 56 | 10 | 54 | 30 | 6 | 8 | N/A |
| 1980 | 13.0 | 8 | 45 | 50 | 11 | 56 | 28 | 6 | 7 | N/A |
| 1981 | 13.0 | 7 | 42 | 55 | 10 | 54 | 31 | 5 | 7 | N/A |
| 1982 | 12.0 | 6 | 40 | 50 | 11 | 52 | 26 | 5 | 6 | N/A |
| 1983 | 12.0 | 6 | 39 | 50 | 10 | 52 | 28 | 5 | 7 | N/A |
| 1984 | 11.0 | 6 | 39 | 50 | 9 | 49 | 29 | 5 | 7 | N/A |
| 1985 | 11.0 | 6 | 40 | 40 | 8 | 49 | 27 | 5 | 6 | N/A |
| 1986 | 10.0 | 5 | 37 | 38 | 8 | 55 | 29 | 4 | 5 | N/A |
| 1987 | 10.0 | 5 | 33 | 38 | 9 | 53 | 26 | 5 | 6 | N/A |
| 1988 | 10.0 | 6 | 34 | 38 | 9 | 48 | 26 | 4 | 5 | N/A |
| 1989 | 9.0 | 6 | 32 | 43 | 10 | 40 | 25 | 4 | 5 | N/A |
| 1990 | 9.0 | 5 | 33 | 43 | 10 | 42 | 20 | 4 | 4 | N/A |
| 1991 | 8.0 | 4 | 31 | 43 | 11 | 44 | 18 | 3 | 4 | N/A |
| 1992 | 5.2 | 4 | 14 | 27 | 4 | 24 | 13 | 4 | 2 | 2 |
| 1993 | 5.2 | 4 | 14 | 26 | 3 | 26 | 13 | 4 | 2 | 2 |
| 1994 | 5.3 | 4 | 15 | 27 | 3 | 24 | 13 | 4 | 3 | 1 |
| 1995 | 4.9 | 3 | 15 | 25 | 4 | 22 | 12 | 3 | 2 | 2 |
| 1996 | 4.8 | 3.5 | 13.9 | 26.8 | 3.0 | 22.2 | 13.1 | 3.1 | 2.2 | 1.5 |
| 1997 | 4.8 | 3.6 | 14.1 | 25.0 | 3.2 | 23.4 | 13.2 | 3.0 | 2.0 | 1.2 |
| 1998 | 4.5 | 3.3 | 14.5 | 23.6 | 3.0 | 23.3 | 11.8 | 2.6 | 2.0 | 1.1 |
| 1999 | 4.5 | 3.6 | 14.0 | 21.5 | 2.8 | 24.1 | 12.7 | 2.3 | 1.9 | 1.2 |
| 2000 | 4.3 | 3.3 | 12.9 | 30.0 | 2.8 | 20.9 | 11.8 | 2.7 | 2.0 | 0.9 |
| 2001 | 4.3 | 3.2 | 13.3 | 30.0 | 3.1 | 22.8 | 11.2 | 2.4 | 1.9 | 1.0 |
| 2002 | 4.0 | 3.1 | 12.2 | 23.5 | 2.7 | 22.7 | 11.3 | 2.1 | 1.7 | 1.0 |

¹Data for 1970–1991 is from the National Safety Council, Accident Facts, 1994. Fatality information for 1992–2002 is from the Bureau of Labor Statistics, Census of Fatal Occupational Injuries. In 1994, the National Safety Council changed its reporting method for workplace fatalities and adopted the BLS count. The earlier NSC numbers are based on an estimate; the BLS numbers are based on an actual census. Beginning with 2003, CFOI began using the North American Industry Classification for industries. Prior to 2003, CFOI used the Standard Industrial Classification system. The substantial differences between these systems result in breaks in series for industry data.

²Deaths per 100,000 workers.

Workplace Fatality Rates by Industry Sector, 2003–2007^{1,2}

(Employment-Based Rates)

| Industry Sector | 2003 | 2004 | 2005 | 2006 | 2007 |
|---|------|------|------|------|------|
| <u>All Industries</u> | 4.0 | 4.1 | 4.0 | 4.0 | 3.8 |
| Agriculture, Forestry, Fishing and Hunting | 31.2 | 30.5 | 32.5 | 30.0 | 27.9 |
| Mining | 26.9 | 28.3 | 25.6 | 28.1 | 25.1 |
| Construction | 11.7 | 12.0 | 11.1 | 10.9 | 10.5 |
| Manufacturing | 2.5 | 2.8 | 2.4 | 2.8 | 2.5 |
| Wholesale Trade | 4.2 | 4.5 | 4.6 | 4.9 | 4.7 |
| Retail Trade | 2.1 | 2.3 | 2.4 | 2.2 | 2.1 |
| Transportation and Warehousing | 17.5 | 18.0 | 17.7 | 16.8 | 16.9 |
| Utilities | 3.7 | 6.1 | 3.6 | 6.3 | 4.0 |
| Information | 1.8 | 1.7 | 2.0 | 2.0 | 2.3 |
| Finance, Insurance, Real Estate | 1.4 | 1.2 | 1.0 | 1.2 | 1.2 |
| Professional and Administrative | 3.3 | 3.3 | 3.5 | 3.2 | 3.1 |
| Educational and Health Services | 0.8 | 0.8 | 0.8 | 0.9 | 0.7 |
| Leisure and Hospitality | 2.4 | 2.2 | 1.8 | 2.3 | 2.2 |
| Other Services, Except Public Administration | 2.8 | 3.0 | 3.0 | 2.6 | 2.5 |
| Government | 2.5 | 2.5 | 2.4 | 2.4 | 2.5 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

¹Deaths per 100,000 workers.

²Fatality rate is an employment-based calculation using employment figures that are annual average estimates of employed civilians, 16 years of age and older, from the Current Population Survey. In 2008, CFOI switched to an hours-based fatality rate calculation. Employment-based fatality rates should not be compared directly with hours-based rates.

Note: Beginning with the 2003 reference year, both CFOI and the Survey of Occupational Injuries and Illnesses began using the 2002 North American Industry Classification System (NAICS) for industries. Prior to 2003, the surveys used the Standard Industrial Classification (SIC) system. The substantial differences between these systems result in breaks in series for industry data.

Workplace Fatality Rates by Industry Sector, 2007–2017^{1,2} (Hours-Based Rates)

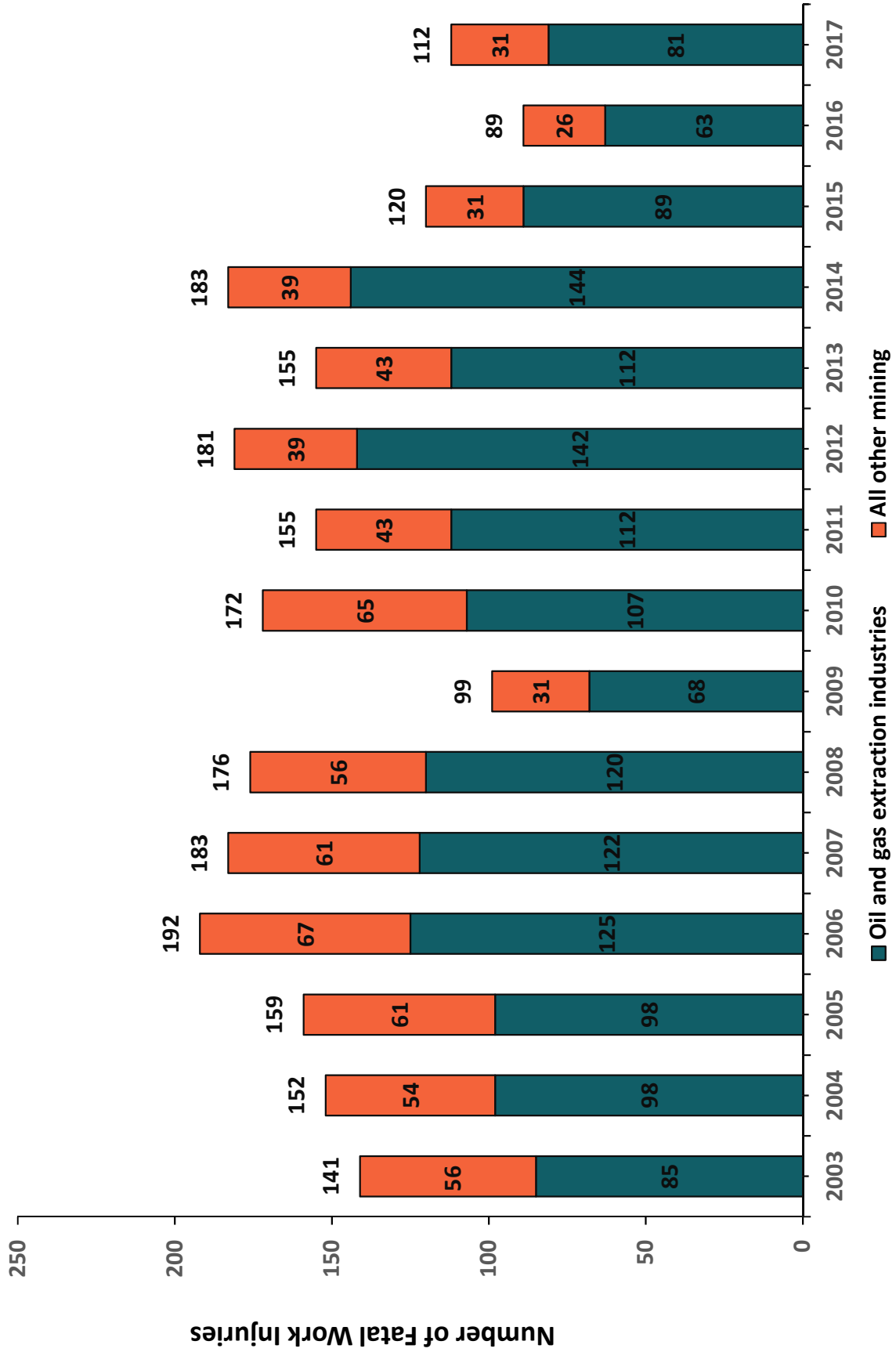
| Industry Sector | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|--|------|------|------|------|------|------|------|------|------|------|------|
| All Industries | 4.0 | 3.7 | 3.5 | 3.6 | 3.5 | 3.4 | 3.3 | 3.4 | 3.4 | 3.6 | 3.5 |
| Agriculture, Forestry, Fishing and Hunting | 27.0 | 30.4 | 27.2 | 27.9 | 24.9 | 22.8 | 23.2 | 25.6 | 22.8 | 23.2 | 23.0 |
| Mining, Quarrying, and Oil and Gas Extraction | 21.4 | 18.1 | 12.4 | 19.8 | 15.9 | 15.9 | 12.4 | 14.2 | 11.4 | 10.1 | 12.9 |
| Construction | 10.8 | 9.7 | 9.9 | 9.8 | 9.1 | 9.9 | 9.7 | 9.8 | 10.1 | 10.1 | 9.5 |
| Manufacturing | 2.4 | 2.5 | 2.3 | 2.3 | 2.2 | 2.2 | 2.1 | 2.3 | 2.3 | 2.0 | 1.9 |
| Wholesale Trade | 4.5 | 4.4 | 5.0 | 4.9 | 4.9 | 5.4 | 5.3 | 5.1 | 4.7 | 4.8 | 4.8 |
| Retail Trade | 2.4 | 2.0 | 2.2 | 2.2 | 1.9 | 1.9 | 1.9 | 1.9 | 1.8 | 1.9 | 2.0 |
| Transportation and Warehousing | 16.5 | 14.9 | 13.3 | 13.7 | 15.3 | 14.6 | 14 | 14.1 | 13.8 | 14.3 | 15.1 |
| Utilities | 5.7 | 3.9 | 1.7 | 2.8 | 4.2 | 2.5 | 2.6 | 1.7 | 2.2 | 2.8 | 2.6 |
| Information | 2.3 | 1.5 | 1.1 | 1.5 | 1.9 | 1.5 | 1.5 | 1.2 | 1.5 | 1.7 | 1.6 |
| Financial Activities | 1.2 | 1.1 | 1.2 | 1.3 | 1.1 | 0.9 | 0.9 | 1.2 | 0.9 | 1.2 | 1.0 |
| Professional and Business Services | 3.3 | 2.8 | 3.1 | 2.6 | 2.9 | 2.7 | 2.8 | 2.7 | 3.0 | 3.1 | 3.0 |
| Educational and Health Services | 0.8 | 0.7 | 0.8 | 0.9 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 |
| Leisure and Hospitality | 2.5 | 2.2 | 2.2 | 2.3 | 2.2 | 2.2 | 1.9 | 2.0 | 2.0 | 2.6 | 2.2 |
| Other Services, Except Public Administration | 2.7 | 2.6 | 2.8 | 3.0 | 3.0 | 2.7 | 2.7 | 2.7 | 3.0 | 3.2 | 2.9 |
| Government | 2.3 | 2.4 | 1.9 | 2.2 | 2.2 | 2.0 | 2.0 | 1.9 | 1.9 | 2.2 | 2.0 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

¹Deaths per 100,000 workers.

²In 2008, CFOI switched to an hours-based fatality rate calculation from an employment-based calculation. Fatality rates for 2007 were calculated using both approaches during the transition to hours-based rates. Fatality rate is an hours-based calculation using total hours worked figures that are annual average estimates of total persons at work multiplied by average hours for civilians, 16 years of age and older, from the Current Population Survey. Hours-based fatality rates should not be compared directly with employment-based rates that CFOI calculated for 1992 to 2007.

Fatal Occupational Injuries in the Private-Sector Mining, Quarrying, and Oil and Gas Extraction Industries, 2003–2017

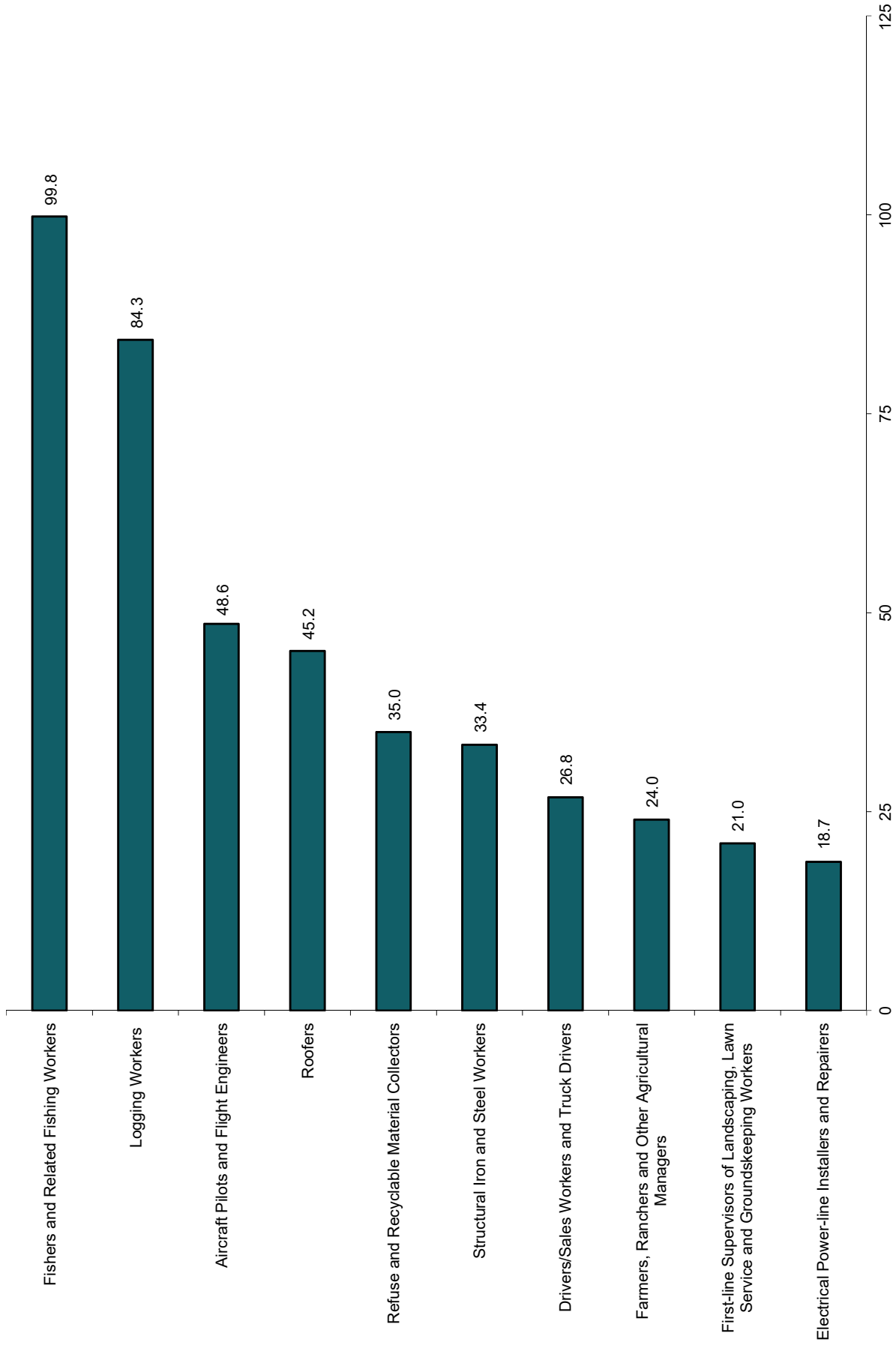


Source: U.S. Bureau of Labor Statistics, U.S. Department of Labor.

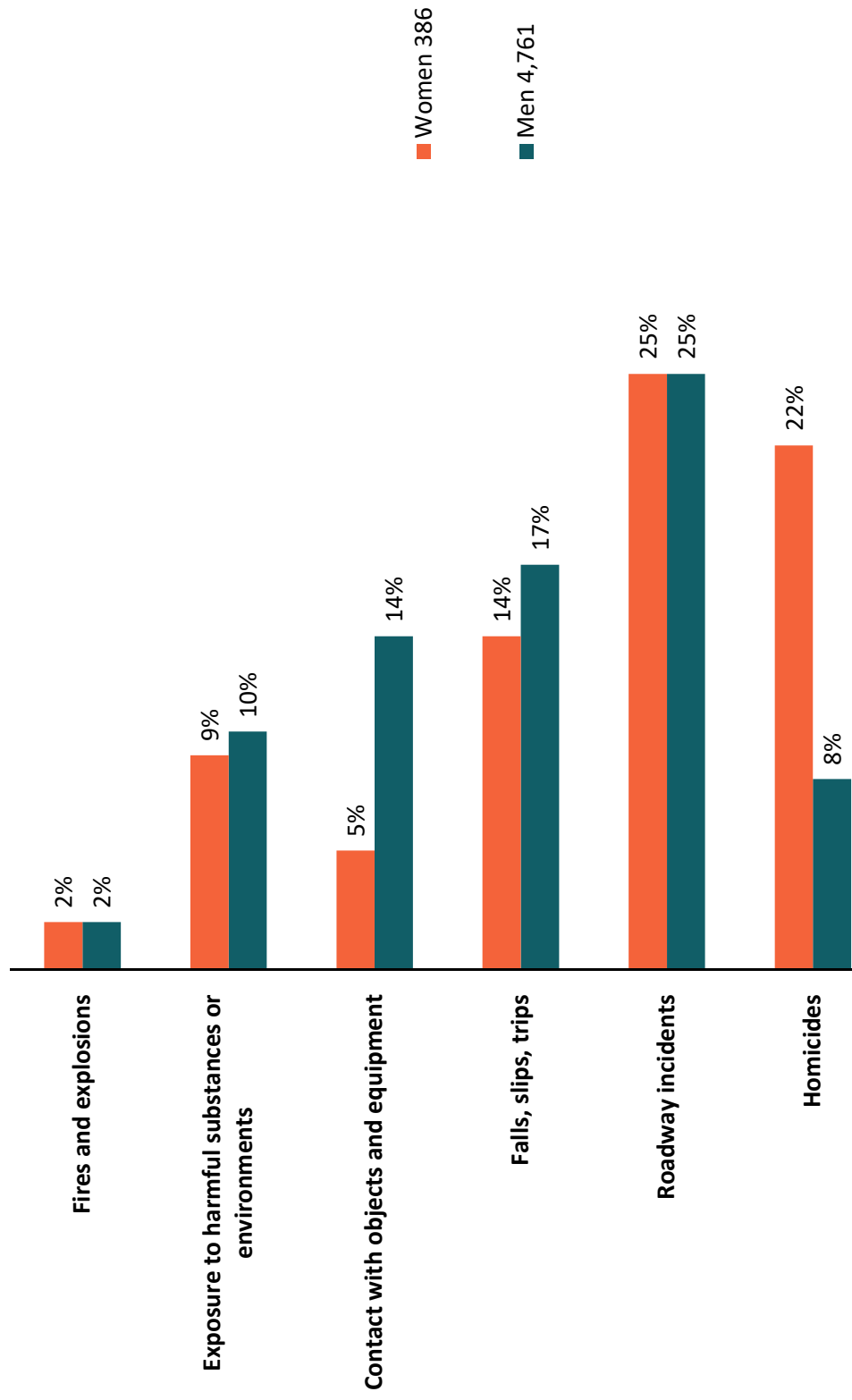
Note: Oil and gas extraction industries include oil and gas extraction (NAICS 2111), drilling oil and gas wells (NAICS 2131), and support activities for oil and gas operations (NAICS 2132).

Selected Occupations with High Fatality Rates, 2017

(Per 100,000 Workers)
National Fatality Rate = 3.5



Distribution of Fatal Injury Events by Gender of Worker, 2017



Profile of Workplace Homicides, 2017

| Characteristic | Subcharacteristics | Deaths |
|------------------------------|---|--------|
| Total Homicides ¹ | | 458 |
| Gender | Men | 375 |
| | Women | 83 |
| Employee Status | Wage and salary workers | 356 |
| | Self employed | 102 |
| Race | White | 220 |
| | Black | 113 |
| | Hispanic or Latino | 68 |
| Leading Primary Source | Assailant, suspect | 235 |
| | Co-worker or work associate | 77 |
| | Other client or customer | 51 |
| | Relative or domestic partner of injured or ill worker | 28 |
| Leading Secondary Source | Firearm | 355 |
| | Knives | 39 |
| Leading Worker Activity | Tending a retail establishment | 126 |
| | Protective service activities | 88 |
| | Vehicular and transportation operations | 58 |
| Leading Location | Public building | 181 |
| | Street or highway | 76 |
| | Employer's parking lot/garage | 51 |
| Leading Occupations | Motor vehicle operators | 49 |
| | Law enforcement workers | 46 |
| | Supervisors of sales workers | 46 |
| Leading Industries | Retail trade | 98 |
| | Accommodations and food services | 62 |
| | Local government ² | 51 |
| | Transportation and warehousing ³ | 41 |

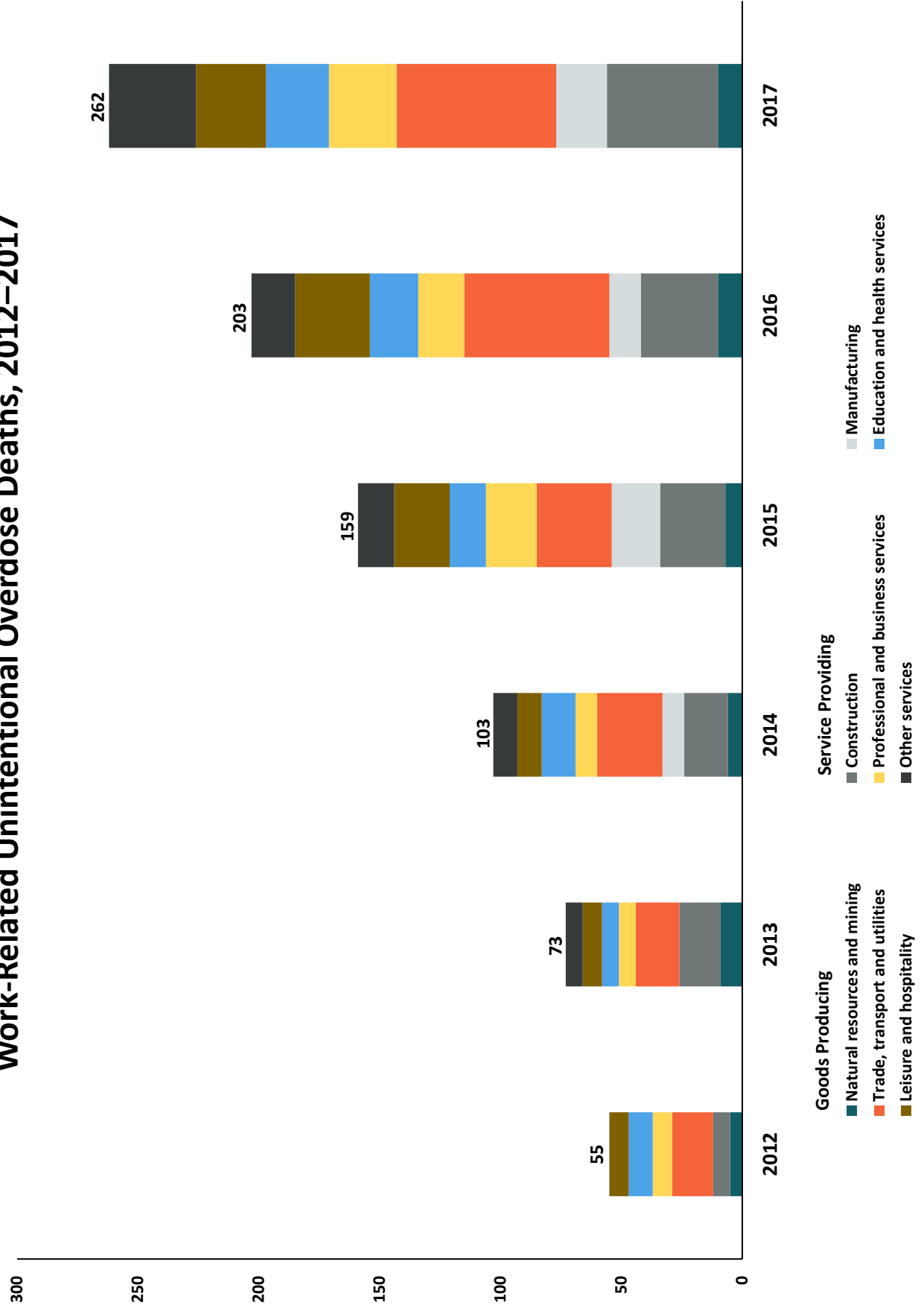
Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

¹This does not include 275 workplace suicides.

²Police protection accounted for 39 of these deaths.

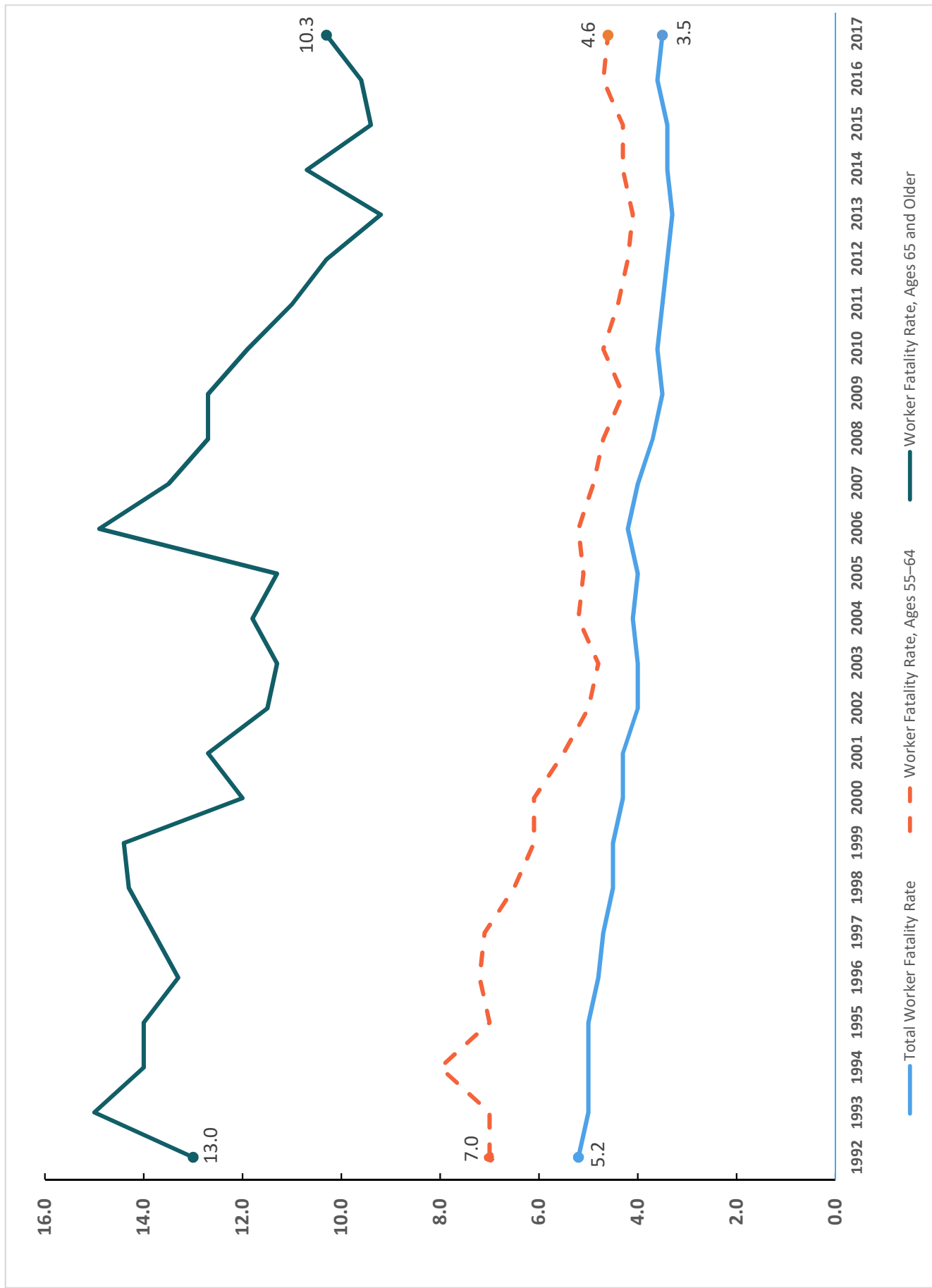
³Taxi service accounted for 18 of these deaths

Work-Related Unintentional Overdose Deaths, 2012–2017



Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

Total Worker Fatality Rates Compared with Aging Worker Fatality Rates, 1992–2017¹



Source: U.S. Department of Labor, Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses.

¹All rates per 100,000 workers.

Fatal Work Injuries by Race, 1998–2017

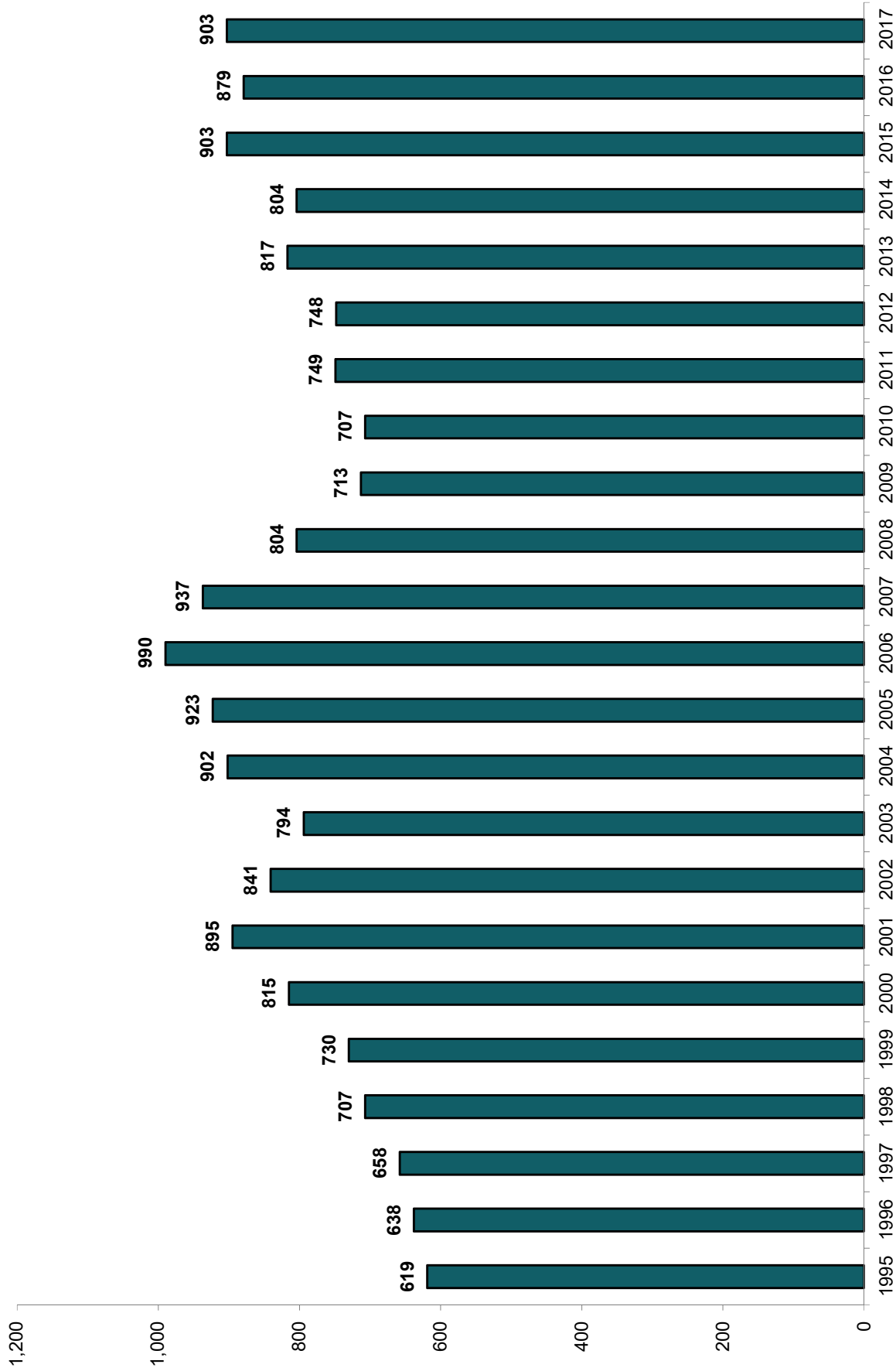
| | 1998 | 1999 | 2000 | 2001 ¹ | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 ² |
|-----------------------------------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| Total Fatalities | 6,055 | 6,054 | 5,920 | 5,915 | 5,534 | 5,575 | 5,764 | 5,734 | 5,840 | 5,657 | 5,214 | 4,551 | 4,690 | 4,693 | 4,628 | 4,585 | 4,821 | 4,836 | 5,190 | 5,147 |
| White | 4,478 | 4,410 | 4,244 | 4,175 | 3,926 | 3,988 | 4,066 | 3,977 | 4,019 | 3,867 | 3,663 | 3,204 | 3,363 | 3,323 | 3,177 | 3,125 | 3,332 | 3,241 | 3,481 | 3,449 |
| Black or African American | 583 | 616 | 575 | 565 | 491 | 543 | 546 | 584 | 565 | 609 | 533 | 421 | 412 | 440 | 486 | 439 | 475 | 495 | 587 | 530 |
| Hispanic or Latino | 707 | 730 | 815 | 895 | 841 | 794 | 902 | 923 | 990 | 937 | 804 | 713 | 707 | 749 | 748 | 817 | 804 | 903 | 879 | 903 |
| Asian or Pacific Islander | 148 | 180 | 185 | 182 | 140 | 158 | 180 | 163 | 159 | 172 | 152 | 148 | 149 | 124 | 154 | 132 | 142 | 123 | 167 | 161 |
| American Indian or Alaskan Native | 28 | 54 | 33 | 48 | 40 | 42 | 28 | 50 | 46 | 29 | 32 | 33 | 32 | 30 | 37 | 35 | 34 | 36 | 38 | 38 |
| Other Races/Not Reported | 111 | 64 | 68 | 50 | 96 | 50 | 42 | 37 | 61 | 43 | 30 | 32 | 27 | 27 | 26 | 37 | 34 | 38 | 38 | 57 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

¹Excludes fatalities from the September 11 terrorist attacks.

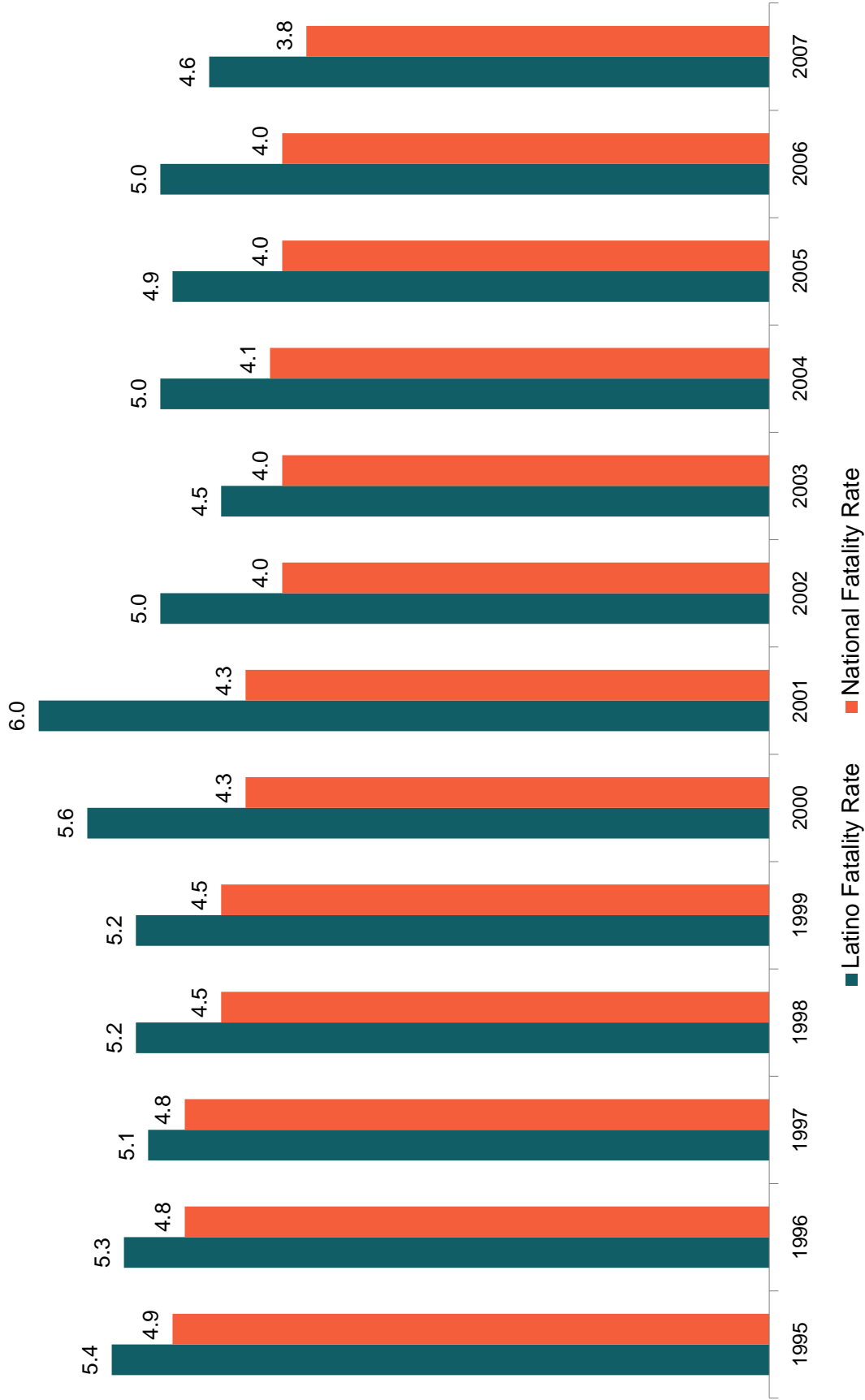
²Multiple races reported for nine fatalities in 2017.

Number of Fatal Occupational Injuries to Hispanic and Latino Workers, 1995–2017



Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

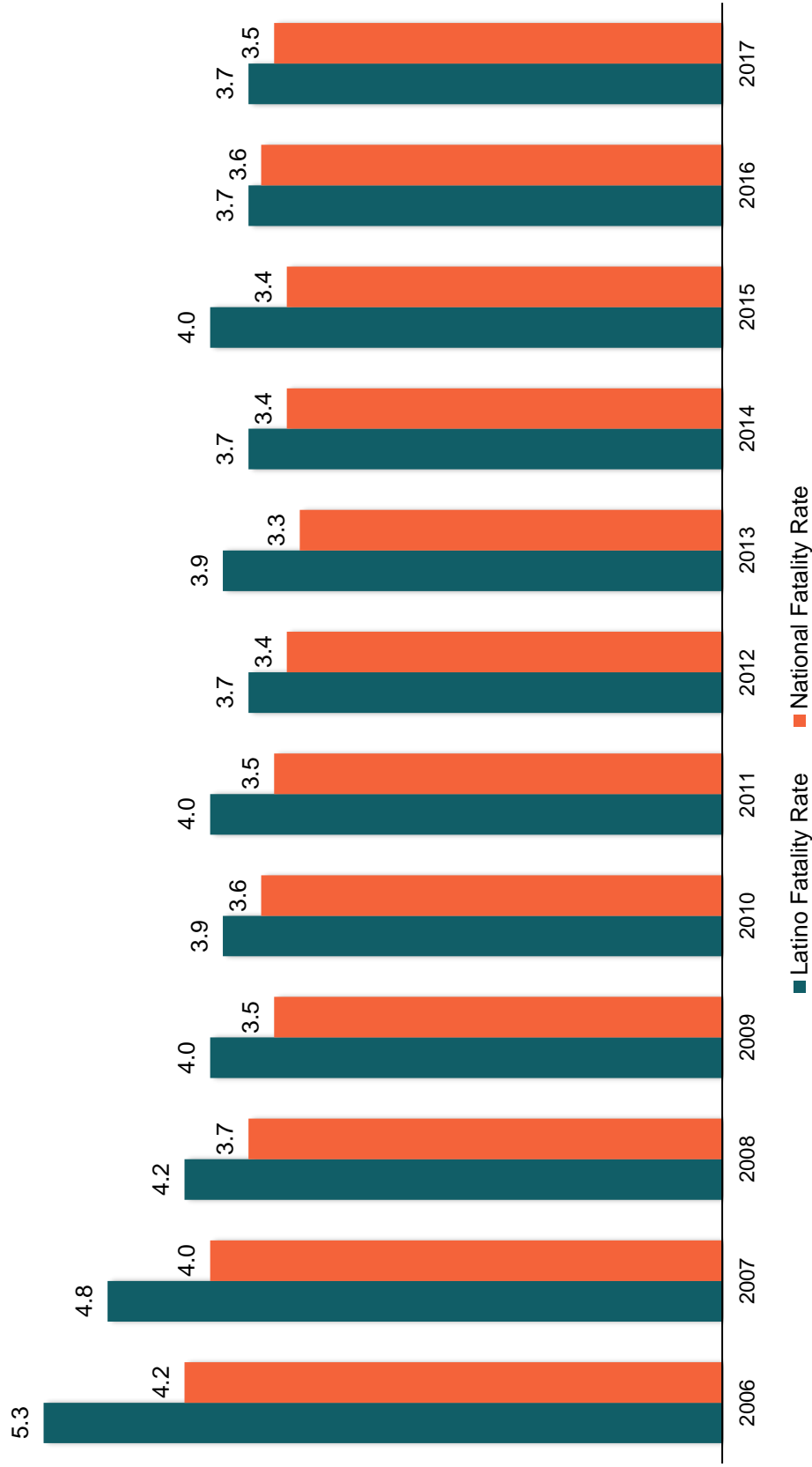
Rate¹ of Fatal Occupational Injuries to Hispanic and Latino Workers, 1995–2007 (Employment-Based Rates)



Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

¹Incidence rate represents the number of fatalities per 100,000 workers. Fatality rate is an employment-based calculation. In 2008, CFOI switched to an hours-based fatality rate calculation. Employment-based fatality rates should not be compared directly with hours-based rates.

Rate of Fatal Occupational Injuries to Hispanic and Latino Workers, 2006–2017¹ (Hours-Based Rates)



Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

¹Incidence rate represents the number of fatalities per 100,000 workers. In 2008, CFOI switched to an hours-based calculation from an employment-based calculation it used from 1992 to 2007. Fatality rate is an hours-based calculation using total hours worked figures that are annual average estimates of total persons at work multiplied by average hours for civilians, 16 years of age and older, from the Current Population Survey. Fatality rates for 2006 and 2007 were calculated by CFOI using both employment-based and hours-based calculations during the transition to hours-based rates beginning exclusively in 2008.

Profile of Hispanic and Latino Worker Fatalities, 2017

| Characteristic | Subcharacteristics | Deaths |
|------------------------------|---|--------|
| Total Fatalities | | 903 |
| Country of Birth | Foreign-born | 568 |
| | Native-born | 335 |
| Leading Birthplace Countries | Mexico | 352 |
| | United States | 335 |
| | Guatemala | 53 |
| Employee Status | Wage and salary workers | 774 |
| | Self employed | 129 |
| Gender | Men | 862 |
| | Women | 41 |
| Leading Occupations | Construction trades workers | 258 |
| | Motor vehicle operators ¹ | 156 |
| | Grounds maintenance workers | 61 |
| | Agricultural workers | 52 |
| Leading Industries | Construction | 291 |
| | Administration and support and waste management and remediation services ² | 134 |
| | Transportation and warehousing ³ | 132 |
| Leading Event or Exposure | Transportation incidents | 325 |
| | Fall, slip, trip | 231 |
| | Contact with object/equipment | 136 |
| | Violence ⁴ | 98 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

¹Heavy and tractor-trailer truck drivers accounted for 128 of these deaths.

²Landscaping services accounted for 70 of these deaths.

³Truck transportation accounted for 102 of these deaths.

⁴Excludes animal- and insect-related incidents.

Profile of Foreign-Born Worker Fatalities, 2017

| Characteristic | Subcharacteristics | Number |
|------------------------------|---|--------|
| Total Fatalities | | 927 |
| Leading Birthplace Countries | Mexico | 355 |
| | Guatemala | 54 |
| | El Salvador | 51 |
| | India | 43 |
| Employee Status | Wage and salary workers | 738 |
| | Self employed | 189 |
| Gender | Men | 885 |
| | Women | 42 |
| Leading Occupations | Construction trades workers | 232 |
| | Motor vehicle operators ¹ | 184 |
| | Grounds maintenance workers | 56 |
| | Agricultural workers | 49 |
| | Material moving workers | 42 |
| Leading Industries | Construction | 262 |
| | Transportation and warehousing ² | 177 |
| | Administrative and support and waste management and remediation services ³ | 111 |
| | Agriculture, forestry, fishing and hunting | 75 |
| Leading Event or Exposure | Transportation incidents | 324 |
| | Fall, slip, trip | 234 |
| | Violence ⁴ | 150 |
| | Contact with object/equipment | 132 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

¹Heavy and tractor-trailer truck drivers accounted for 137 of these deaths.

²Truck transportation accounted for 122 of these deaths.

³Landscaping services accounted for 63 of these deaths.

⁴Excludes animal- and insect-related incidents.

Workplace Injury and Illness Incidence Rates, Private Sector, 1973–2017 (Per 100 Workers)

| Year | Total Case Rate | Cases with Days Away from Work, Job Transfer or Restriction | | |
|------|-----------------|---|--------------------------------|---|
| | | Total | Cases with Days Away from Work | Cases with Job Transfer or Restriction ¹ |
| 1973 | 11.0 | 3.4 | N/A | N/A |
| 1974 | 10.4 | 3.5 | N/A | N/A |
| 1975 | 9.1 | 3.3 | N/A | N/A |
| 1976 | 9.2 | 3.5 | 3.3 | 0.2 |
| 1977 | 9.3 | 3.8 | 3.6 | 0.2 |
| 1978 | 9.4 | 4.1 | 3.8 | 0.3 |
| 1979 | 9.5 | 4.3 | 4.0 | 0.3 |
| 1980 | 8.7 | 4.0 | 3.7 | 0.3 |
| 1981 | 8.3 | 3.8 | 3.5 | 0.3 |
| 1982 | 7.7 | 3.5 | 3.2 | 0.3 |
| 1983 | 7.6 | 3.4 | 3.2 | 0.3 |
| 1984 | 8.0 | 3.7 | 3.4 | 0.3 |
| 1985 | 7.9 | 3.6 | 3.3 | 0.3 |
| 1986 | 7.9 | 3.6 | 3.3 | 0.3 |
| 1987 | 8.3 | 3.8 | 3.4 | 0.4 |
| 1988 | 8.6 | 4.0 | 3.5 | 0.5 |
| 1989 | 8.6 | 4.0 | 3.4 | 0.6 |
| 1990 | 8.8 | 4.1 | 3.4 | 0.7 |
| 1991 | 8.4 | 3.9 | 3.2 | 0.7 |
| 1992 | 8.9 | 3.9 | 3.0 | 0.8 |
| 1993 | 8.5 | 3.8 | 2.9 | 0.9 |
| 1994 | 8.4 | 3.8 | 2.8 | 1.0 |
| 1995 | 8.1 | 3.6 | 2.5 | 1.1 |
| 1996 | 7.4 | 3.4 | 2.2 | 1.1 |
| 1997 | 7.1 | 3.3 | 2.1 | 1.2 |
| 1998 | 6.7 | 3.1 | 2.0 | 1.2 |
| 1999 | 6.3 | 3.0 | 1.9 | 1.2 |
| 2000 | 6.1 | 3.0 | 1.8 | 1.2 |
| 2001 | 5.7 | 2.8 | 1.7 | 1.1 |
| 2002 | 5.3 | 2.8 | 1.6 | 1.2 |
| 2003 | 5.0 | 2.6 | 1.5 | 1.1 |
| 2004 | 4.8 | 2.5 | 1.4 | 1.1 |
| 2005 | 4.6 | 2.4 | 1.4 | 1.0 |
| 2006 | 4.4 | 2.3 | 1.3 | 1.0 |
| 2007 | 4.2 | 2.1 | 1.2 | 0.9 |
| 2008 | 3.9 | 2.0 | 1.1 | 0.9 |
| 2009 | 3.6 | 2.0 | 1.1 | 0.8 |
| 2010 | 3.5 | 1.8 | 1.1 | 0.8 |
| 2011 | 3.5 | 1.8 | 1.1 | 0.7 |
| 2012 | 3.4 | 1.8 | 1.0 | 0.7 |
| 2013 | 3.3 | 1.7 | 1.0 | 0.7 |
| 2014 | 3.2 | 1.7 | 1.0 | 0.7 |
| 2015 | 3.0 | 1.6 | 0.9 | 0.7 |
| 2016 | 2.9 | 1.6 | 0.9 | 0.7 |
| 2017 | 2.8 | 1.5 | 0.9 | 0.7 |

Source: Department of Labor, Bureau of Labor Statistics.

¹Through 2001, this column includes cases involving restricted activity only.

Workplace Injury and Illness Rates by Industry Sector, 1973–2002¹

Per 100 Full-Time Workers

| Year | Total Case Rate | | | | | | | | | |
|------|-----------------|------|--------|--------|---------|-------|--------------|-------|---------|--|
| | All Ind. | Mfg. | Const. | Mining | Finance | Agri. | Trans./Util. | Trade | Service | |
| 1973 | 11.0 | 15.3 | 19.8 | 12.5 | 2.4 | 11.6 | 10.3 | 8.6 | 6.2 | |
| 1974 | 10.4 | 14.6 | 18.3 | 10.2 | 2.4 | 9.9 | 10.5 | 8.4 | 5.8 | |
| 1975 | 9.1 | 13.0 | 16.0 | 11.0 | 2.2 | 8.5 | 9.4 | 7.3 | 5.4 | |
| 1976 | 9.2 | 13.2 | 15.3 | 11.0 | 2.0 | 11.0 | 9.8 | 7.5 | 5.3 | |
| 1977 | 9.3 | 13.1 | 15.5 | 10.9 | 2.0 | 11.5 | 9.7 | 7.7 | 5.5 | |
| 1978 | 9.4 | 13.2 | 16.0 | 11.5 | 2.1 | 11.6 | 10.1 | 7.9 | 5.5 | |
| 1979 | 9.5 | 13.3 | 16.2 | 11.4 | 2.1 | 11.7 | 10.2 | 8.0 | 5.5 | |
| 1980 | 8.7 | 12.2 | 15.7 | 11.2 | 2.0 | 11.9 | 9.4 | 7.4 | 5.2 | |
| 1981 | 8.3 | 11.5 | 15.1 | 11.6 | 1.9 | 12.3 | 9.0 | 7.3 | 5.0 | |
| 1982 | 7.7 | 10.2 | 14.6 | 10.5 | 2.0 | 11.8 | 8.5 | 7.2 | 4.9 | |
| 1983 | 7.6 | 10.0 | 14.8 | 8.4 | 2.0 | 11.9 | 8.2 | 7.0 | 5.1 | |
| 1984 | 8.0 | 10.6 | 15.5 | 9.7 | 1.9 | 12.0 | 8.8 | 7.2 | 5.2 | |
| 1985 | 7.9 | 10.4 | 15.2 | 8.4 | 2.0 | 11.4 | 8.6 | 7.4 | 5.4 | |
| 1986 | 7.9 | 10.6 | 15.2 | 7.4 | 2.0 | 11.2 | 8.2 | 7.7 | 5.3 | |
| 1987 | 8.3 | 11.9 | 14.7 | 8.5 | 2.0 | 11.2 | 8.4 | 7.4 | 5.5 | |
| 1988 | 8.6 | 13.1 | 14.6 | 8.8 | 2.0 | 10.9 | 8.9 | 7.6 | 5.4 | |
| 1989 | 8.6 | 13.1 | 14.3 | 8.5 | 2.0 | 10.9 | 9.2 | 8.0 | 5.5 | |
| 1990 | 8.8 | 13.2 | 14.2 | 8.3 | 2.4 | 11.6 | 9.6 | 7.9 | 6.0 | |
| 1991 | 8.4 | 12.7 | 13.0 | 7.4 | 2.4 | 10.8 | 9.3 | 7.6 | 6.2 | |
| 1992 | 8.9 | 12.5 | 13.1 | 7.3 | 2.9 | 11.6 | 9.1 | 8.4 | 7.1 | |
| 1993 | 8.6 | 12.1 | 12.2 | 6.8 | 2.9 | 11.2 | 9.5 | 8.1 | 6.7 | |
| 1994 | 8.4 | 12.2 | 11.8 | 6.3 | 2.7 | 10.0 | 9.3 | 7.9 | 6.5 | |
| 1995 | 8.1 | 11.6 | 10.6 | 6.2 | 2.6 | 9.7 | 9.1 | 7.5 | 6.4 | |
| 1996 | 7.4 | 10.6 | 9.9 | 5.4 | 2.4 | 8.7 | 8.7 | 6.8 | 6.0 | |
| 1997 | 7.1 | 10.3 | 9.5 | 5.9 | 2.2 | 8.4 | 8.2 | 6.7 | 5.6 | |
| 1998 | 6.7 | 9.7 | 8.8 | 4.9 | 1.9 | 7.9 | 7.3 | 6.5 | 5.2 | |
| 1999 | 6.3 | 9.2 | 8.6 | 4.4 | 1.8 | 7.3 | 7.3 | 6.1 | 4.9 | |
| 2000 | 6.1 | 9.0 | 8.3 | 4.7 | 1.9 | 7.1 | 6.9 | 5.9 | 4.9 | |
| 2001 | 5.7 | 8.1 | 7.9 | 4.0 | 1.8 | 7.3 | 6.9 | 5.6 | 4.6 | |
| 2002 | 5.3 | 7.2 | 7.1 | 4.0 | 1.7 | 6.4 | 6.1 | 5.3 | 4.6 | |

Source: U.S. Department of Labor, Bureau of Labor Statistics.

¹Beginning with the 2003 reference year, the Survey of Occupational Injuries and Illnesses began using the North American Industry Classification System for industries. Prior to 2003, the survey used the Standard Industrial Classification system. The substantial differences between these systems result in breaks in series for industry data.

Workplace Injury and Illness Rates by Industry Sector, 2003–2017^{1,2}

| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 ³ | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|------|------|------|------|------|-------------------|------|------|------|------|------|------|------|------|------|
| Total case rate, private industry | 5.0 | 4.8 | 4.6 | 4.4 | 4.2 | 3.9 | 3.6 | 3.5 | 3.5 | 3.4 | 3.3 | 3.2 | 3.0 | 2.9 | 2.8 |
| State and local government | - | - | - | - | - | 6.3 | 5.8 | 5.7 | 5.7 | 5.6 | 5.2 | 5 | 5.1 | 4.7 | 4.6 |
| State government | - | - | - | - | - | 4.7 | 4.6 | 4.6 | 4.6 | 4.4 | 3.9 | 4.1 | 3.7 | 3.7 | 3.6 |
| Local government | - | - | - | - | - | 7.0 | 6.3 | 6.1 | 6.1 | 6.1 | 5.7 | 5.4 | 5.6 | 5.0 | 5.0 |
| Natural resources and mining | 5.1 | 5.3 | 5.1 | 4.9 | 4.4 | 4.1 | 4.0 | 3.7 | 4.0 | 3.8 | 3.9 | 3.8 | 3.7 | 4.2 | 3.6 |
| Agriculture, forestry, fishing and hunting | 6.2 | 6.4 | 6.1 | 6.0 | 5.4 | 5.3 | 5.3 | 4.8 | 5.5 | 5.5 | 5.7 | 5.5 | 5.7 | 6.1 | 5.0 |
| Mining, quarrying, and oil and gas extraction | 3.3 | 3.8 | 3.6 | 3.5 | 3.1 | 2.9 | 2.4 | 2.3 | 2.2 | 2.1 | 2.0 | 2 | 1.4 | 1.5 | 1.5 |
| Construction | 6.8 | 6.4 | 6.3 | 5.9 | 5.4 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.8 | 3.6 | 3.5 | 3.2 | 3.1 |
| Construction (local gov.) | - | - | - | - | - | 12.7 | 13.0 | 9.5 | 8.7 | 10.2 | 7.9 | 8.6 | 8.0 | 9.1 | - |
| Manufacturing | 6.8 | 6.8 | 6.3 | 6.0 | 5.6 | 5.0 | 4.3 | 4.4 | 4.4 | 4.3 | 4.0 | 4 | 3.8 | 3.6 | 3.5 |
| Trade, transportation and utilities | 5.5 | 5.5 | 5.2 | 5.0 | 4.9 | 4.4 | 4.1 | 4.1 | 3.9 | 3.9 | 3.8 | 3.6 | 3.6 | 3.4 | 3.4 |
| Wholesale trade | 4.7 | 4.5 | 4.5 | 4.1 | 4.0 | 3.7 | 3.3 | 3.4 | 3.2 | 3.3 | 3.1 | 2.9 | 3.1 | 2.8 | 2.8 |
| Retail trade | 5.3 | 5.3 | 5.0 | 4.9 | 4.8 | 4.4 | 4.2 | 4.1 | 3.9 | 4.0 | 3.8 | 3.6 | 3.5 | 3.3 | 3.3 |
| Transportation and warehousing | 7.8 | 7.3 | 7.0 | 6.5 | 6.4 | 5.7 | 5.2 | 5.2 | 5.0 | 4.9 | 4.7 | 4.8 | 4.5 | 4.6 | 4.6 |
| Utilities | 4.4 | 5.2 | 4.6 | 4.1 | 4.0 | 3.5 | 3.3 | 3.1 | 3.5 | 2.8 | 2.1 | 2.4 | 2.2 | 2.1 | 2.0 |
| Information | 2.2 | 2.0 | 2.1 | 1.9 | 2.0 | 2.0 | 1.9 | 1.8 | 1.6 | 1.4 | 1.5 | 1.4 | 1.3 | 1.3 | 1.3 |
| Financial activities | 1.7 | 1.6 | 1.7 | 1.5 | 1.4 | 1.5 | 1.5 | 1.3 | 1.4 | 1.3 | 1.3 | 1.2 | 1.1 | 1.1 | 1.0 |
| Professional and business services | 2.5 | 2.4 | 2.4 | 2.1 | 2.1 | 1.9 | 1.8 | 1.7 | 1.7 | 1.6 | 1.6 | 1.5 | 1.4 | 1.4 | 1.3 |
| Educational and health services | 6.0 | 5.8 | 5.5 | 5.4 | 5.2 | 5.0 | 5.0 | 4.8 | 4.7 | 4.5 | 4.4 | 4.2 | 4.0 | 3.9 | 3.8 |
| Hospitals (private) | 8.7 | 8.3 | 8.1 | 8.1 | 7.7 | 7.6 | 7.3 | 7.0 | 6.8 | 6.6 | 6.4 | 6.2 | 6.0 | 5.9 | 5.7 |
| Hospitals (state gov.) | - | - | - | - | - | 11.9 | 11.0 | 11.8 | 9.2 | 9.2 | 7.7 | 8.7 | 8.1 | 8.2 | 7.7 |
| Nursing and Residential Care (private) | 10.1 | 9.7 | 9.1 | 8.9 | 8.8 | 8.4 | 8.4 | 8.3 | 7.8 | 7.6 | 7.3 | 7.1 | 6.8 | 6.4 | 6.3 |
| Nursing and Residential Care (state gov.) | - | - | - | - | - | 12.5 | - | 15.1 | 13.1 | 13.6 | 13.7 | 12.6 | 12.0 | 13.7 | 10.9 |
| Leisure and hospitality | 5.1 | 4.7 | 4.7 | 4.6 | 4.5 | 4.2 | 3.9 | 3.9 | 4.0 | 3.9 | 3.8 | 3.6 | 3.5 | 3.4 | 3.4 |
| Other services, except public administration | 3.4 | 3.2 | 3.2 | 2.9 | 3.1 | 3.1 | 2.9 | 2.7 | 2.6 | 2.5 | 2.5 | 2.5 | 2.3 | 2.3 | 2.1 |

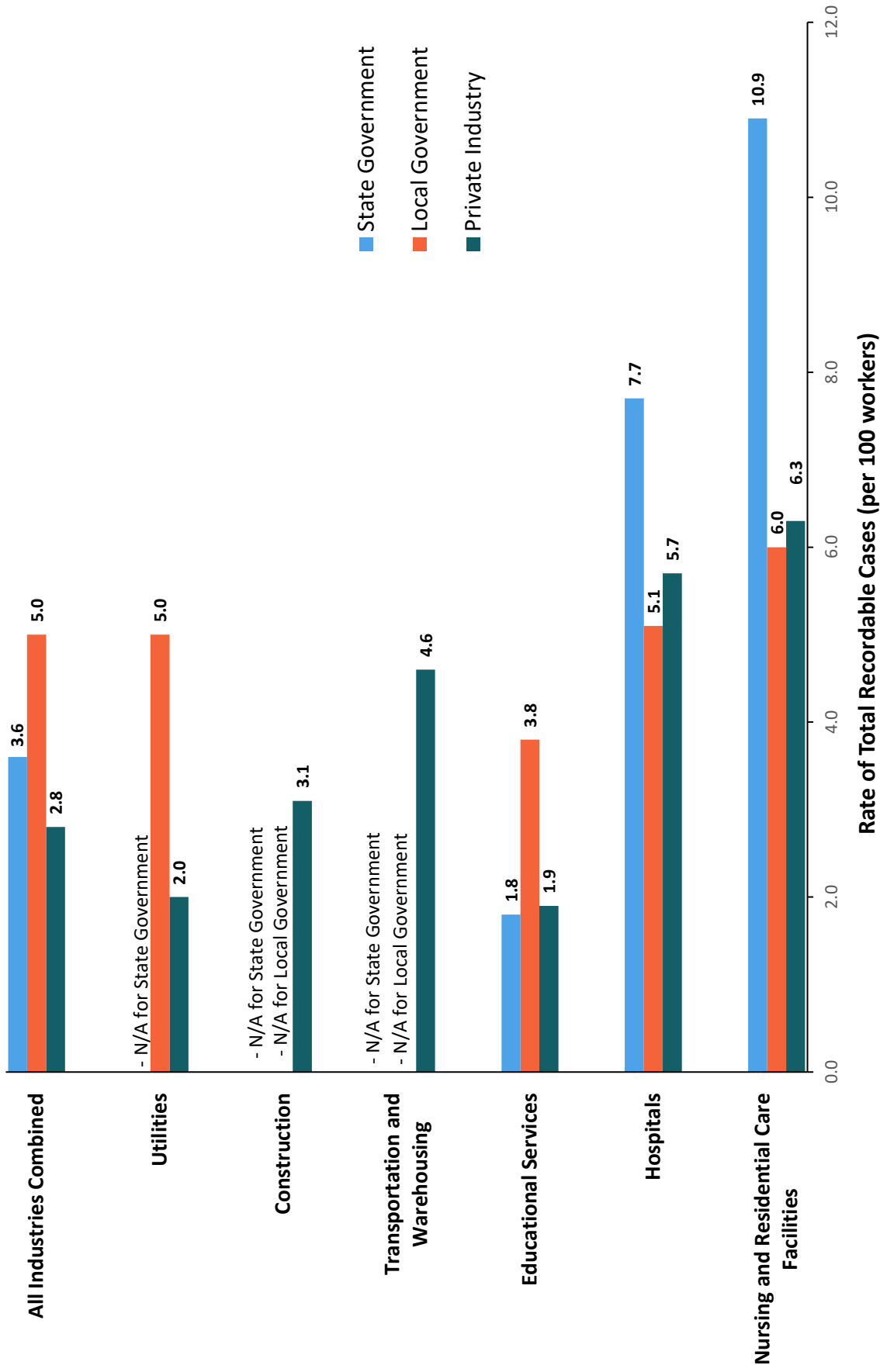
Source: U.S. Department of Labor, Bureau of Labor Statistics.

¹Total recordable cases per 100 workers.

²Private industry, unless otherwise noted.

³Beginning in 2008, the Bureau of Labor Statistics provided national public-sector estimates for state and local government workers.

Rate of Workplace Injuries and Illnesses for Selected Industries in State Government, Local Government and Private Industry, 2017



Source: U.S. Department of Labor, Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses.

Industries with the Highest Total Nonfatal Injury and Illness Rates, 2017

(Per 100 Workers)

Private Industry = 2.8

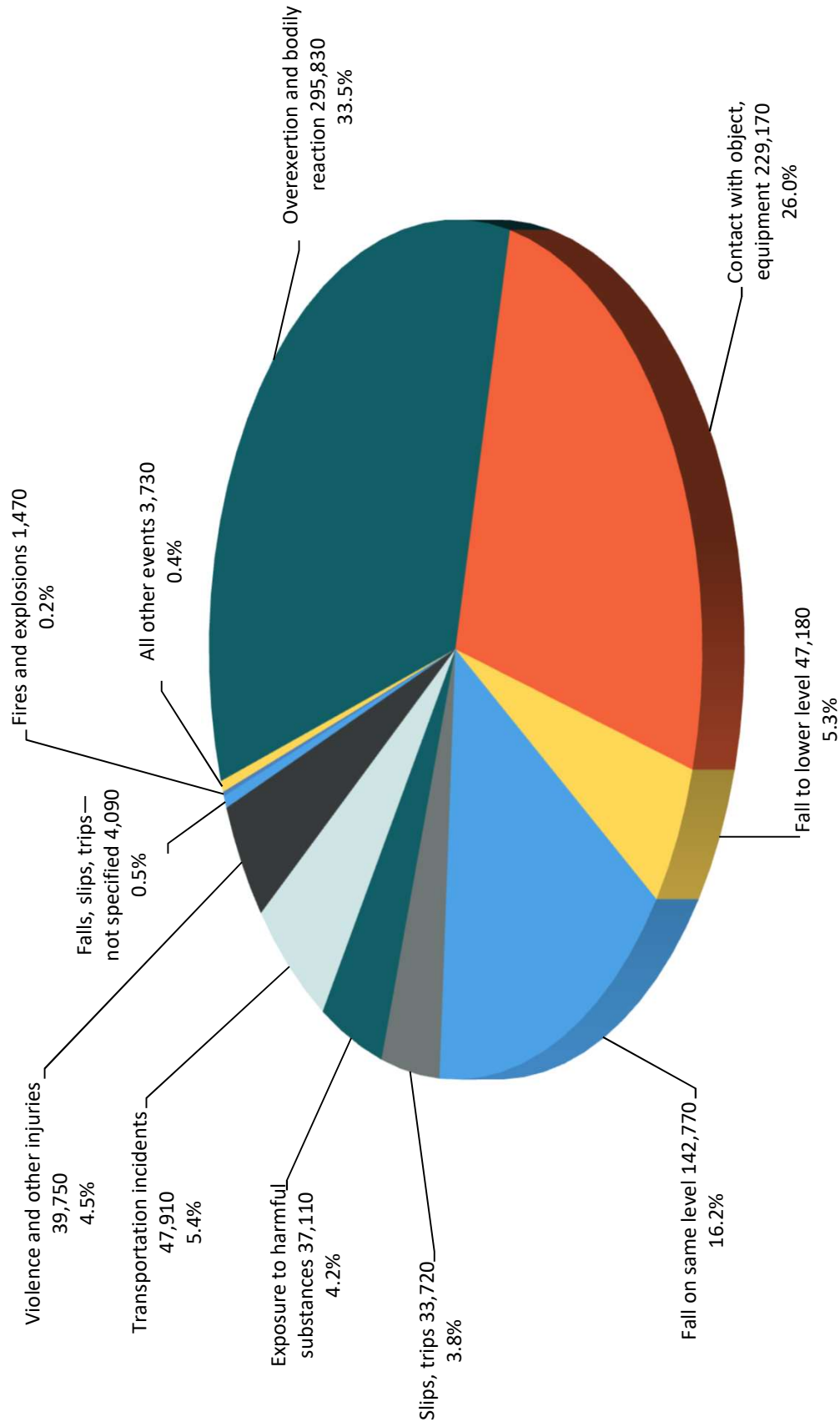
State Government = 3.6

Local Government = 5.0



Nonfatal Occupational Injuries and Illnesses with Days Away from Work by Event or Exposure, Private Industry, 2017¹

Total = 882,730



Source: U.S. Department of Labor, Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses.

Number of Injury and Illness Cases in Private Industry with Days Away from Work Among Hispanic and Latino Workers, 1995–2017¹

| Year | Number of Hispanic and Latino Worker Cases | Percent of Total Injury and Illness Cases |
|-------------------------|--|---|
| 1995 | 191,665 | 9.4 |
| 1996 | 169,300 | 9.0 |
| 1997 | 187,221 | 10.2 |
| 1998 | 179,399 | 10.4 |
| 1999 | 182,896 | 10.7 |
| 2000 | 186,029 | 11.2 |
| 2001 | 191,959 | 12.5 |
| 2002² | 180,419 | 12.6 |
| 2003³ | 161,330 | 12.3 |
| 2004³ | 164,390 | 13.1 |
| 2005³ | 163,440 | 13.2 |
| 2006³ | 159,440 | 13.5 |
| 2007³ | 157,320 | 13.6 |
| 2008³ | 145,870 | 13.5 |
| 2009³ | 125,790 | 13.0 |
| 2010³ | 122,970 | 13.2 |
| 2011³ | 117,210 | 12.9 |
| 2012³ | 118,940 | 13.1 |
| 2013³ | 124,330 | 13.6 |
| 2014³ | 124,280 | 13.6 |
| 2015³ | 125,360 | 13.9 |
| 2016³ | 127,490 | 14.3 |
| 2017³ | 122,220 | 13.8 |

Source: U.S. Department of Labor, Bureau of Labor Statistics.

¹Days away from work include those that result in days away from work with or without restricted work activity. They do not include cases involving only restricted work activity.

²Days away from work cases include those that result in days away from work with or without job transfer or restriction.

³Classification of workers by race and ethnicity was revised in 2003 to conform to other government data. One result of this revision is that individuals may be categorized in more than one race or ethnic group. Cases reflected here are for those who reported Hispanic or Latino only and Hispanic or Latino and other race. Race and ethnicity data reporting is not mandatory in the BLS Survey of Occupational Injuries and Illnesses. As a result, 30-40% of cases do not report race and ethnicity.

Workplace Injuries and Illnesses to Women Involving Days Away from Work, Private Industry, 2017

| Characteristic | Subcharacteristics | Number |
|---|--|---------|
| Total Number of Injuries and Illnesses with Days Away from Work | | 339,630 |
| Leading Industries | Hospitals | 39,420 |
| | Ambulatory health care services | 26,860 |
| | Food service and drinking places | 17,250 |
| Leading Occupations | Nursing, psychiatric and home health aides | 36,410 |
| | Building cleaning workers | 22,370 |
| | Registered nurses | 18,510 |
| | Laborers and material movers | 18,250 |
| Leading Nature | Sprains, strains, tears | 126,470 |
| | Soreness, pain, hurt, unspecified | 60,160 |
| | Bruises, contusions | 39,160 |
| Leading Event or Exposure | Overexertion and bodily reaction | 113,240 |
| | Falls, slips, trips | 106,220 |
| | Contact with objects and equipment | 66,310 |
| Leading Source | Bodily motion or position of injured, ill worker | 50,690 |
| | Floors ¹ | 49,190 |
| | Containers, nonpressurized | 29,360 |
| Median Days Away from Work | Total cases | 8 |
| | Women | 7 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses.

¹This category accounts for floors only. Floors, walkways and ground surfaces combined accounted for 80,480 injuries and illnesses involving days away from work for women.

Workplace Injuries and Illnesses to Men Involving Days Away from Work, Private Industry, 2017

| Characteristic | Subcharacteristics | Number |
|---|--|---------|
| Total Number of Injuries and Illnesses with Days Away from Work | | 539,840 |
| Leading Industries | Specialty trade contractors | 52,780 |
| | Truck transportation | 29,730 |
| | Food service and drinking places | 27,150 |
| Leading Occupations | Driver/sales workers and truck drivers | 71,990 |
| | Laborers and material movers | 52,980 |
| | Maintenance and repair workers | 22,450 |
| | Construction laborers | 20,680 |
| Leading Nature | Sprains, strains, tears | 183,120 |
| | Soreness, pain, hurt, unspecified | 82,830 |
| | Cuts, lacerations | 55,870 |
| Leading Event or Exposure | Overexertion and bodily reaction | 181,730 |
| | Contact with objects and equipment | 162,170 |
| | Falls, slips, trips | 120,640 |
| Leading Source | Bodily motion or position of injured, ill worker | 79,140 |
| | Containers, nonpressurized | 44,210 |
| | Floors ¹ | 25,670 |
| Median Days Away from Work | Total cases | 8 |
| | Men | 10 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses.

¹This category accounts for floors only. Floors, walkways and ground surfaces combined accounted for 63,460 injuries and illnesses involving days away from work for men.

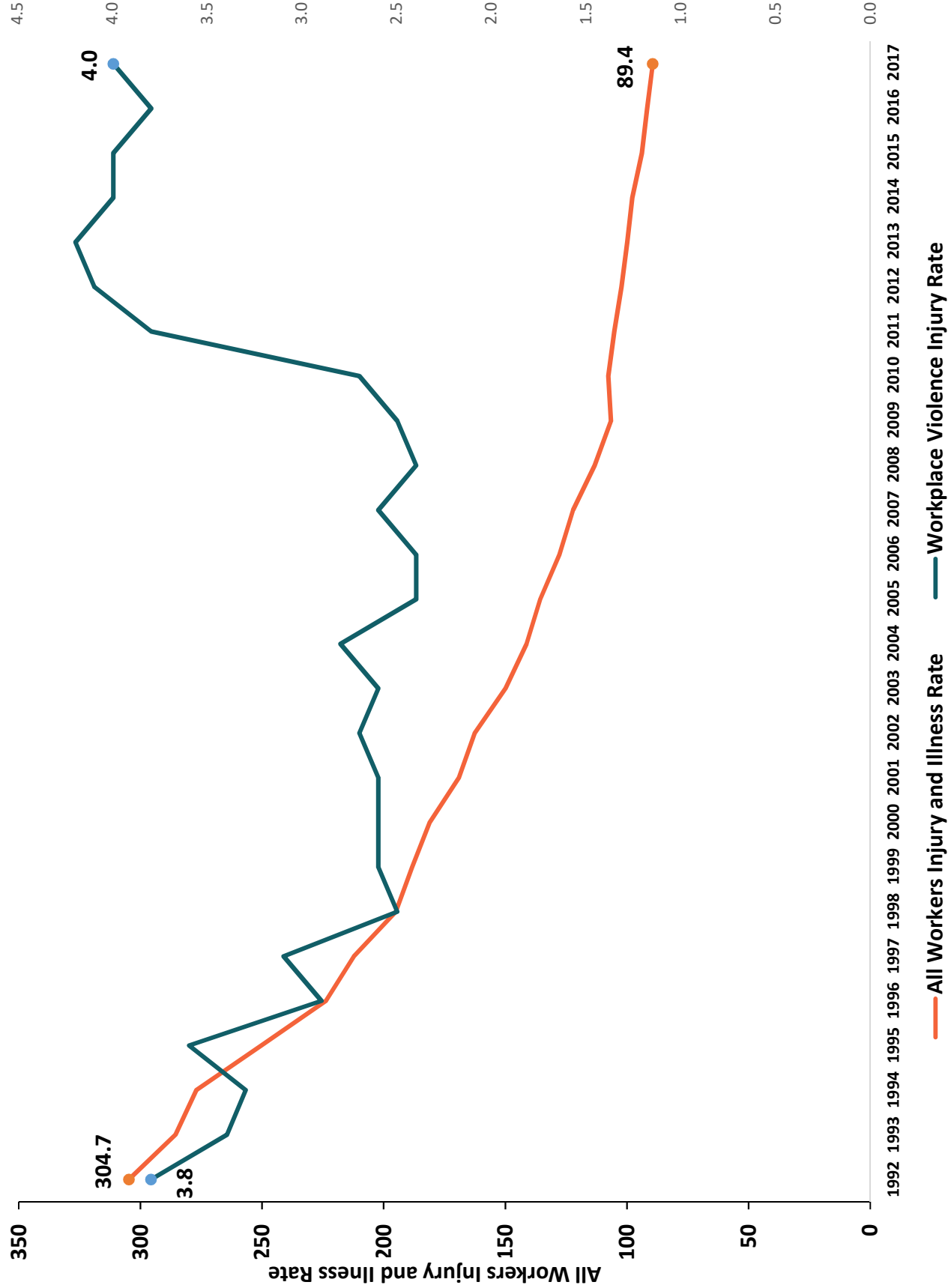
Number of Workplace Violence Events Leading to Injuries Involving Days Away from Work, Private Industry, 2017¹

| Characteristic | Subcharacteristics | Number |
|----------------------------|--|--------|
| Total Events | | 28,870 |
| Gender | Women | 18,890 |
| | Men | 9,930 |
| Race | White | 8,870 |
| | Black | 4,190 |
| | Hispanic or Latino | 1,930 |
| Leading Industries | Nursing and residential care facilities | 8,640 |
| | Hospitals | 6,590 |
| | Social assistance | 2,370 |
| | Educational services | 1,780 |
| Leading Occupations | Nursing, psychiatric and home health aides | 6,180 |
| | Registered nurses | 2,470 |
| | Personal care aides | 2,390 |
| Leading Nature of Injury | Sprains, strains, tears | 8,160 |
| | Soreness, pain | 6,290 |
| | Bruises, contusions | 5,150 |
| Leading Source | Patient | 14,200 |
| | Other client or customer | 5,920 |
| | Student | 2,650 |
| Median Days Away from Work | Overall, all injuries and illnesses | 8 |
| | Intentional injury by person | 5 |
| | Injury by person—unintentional or intent unknown | 8 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses.

¹Violence events in private industry include intentional injury by person and injury by person—unintentional or intent unknown, and exclude animal and insect-related incidents.

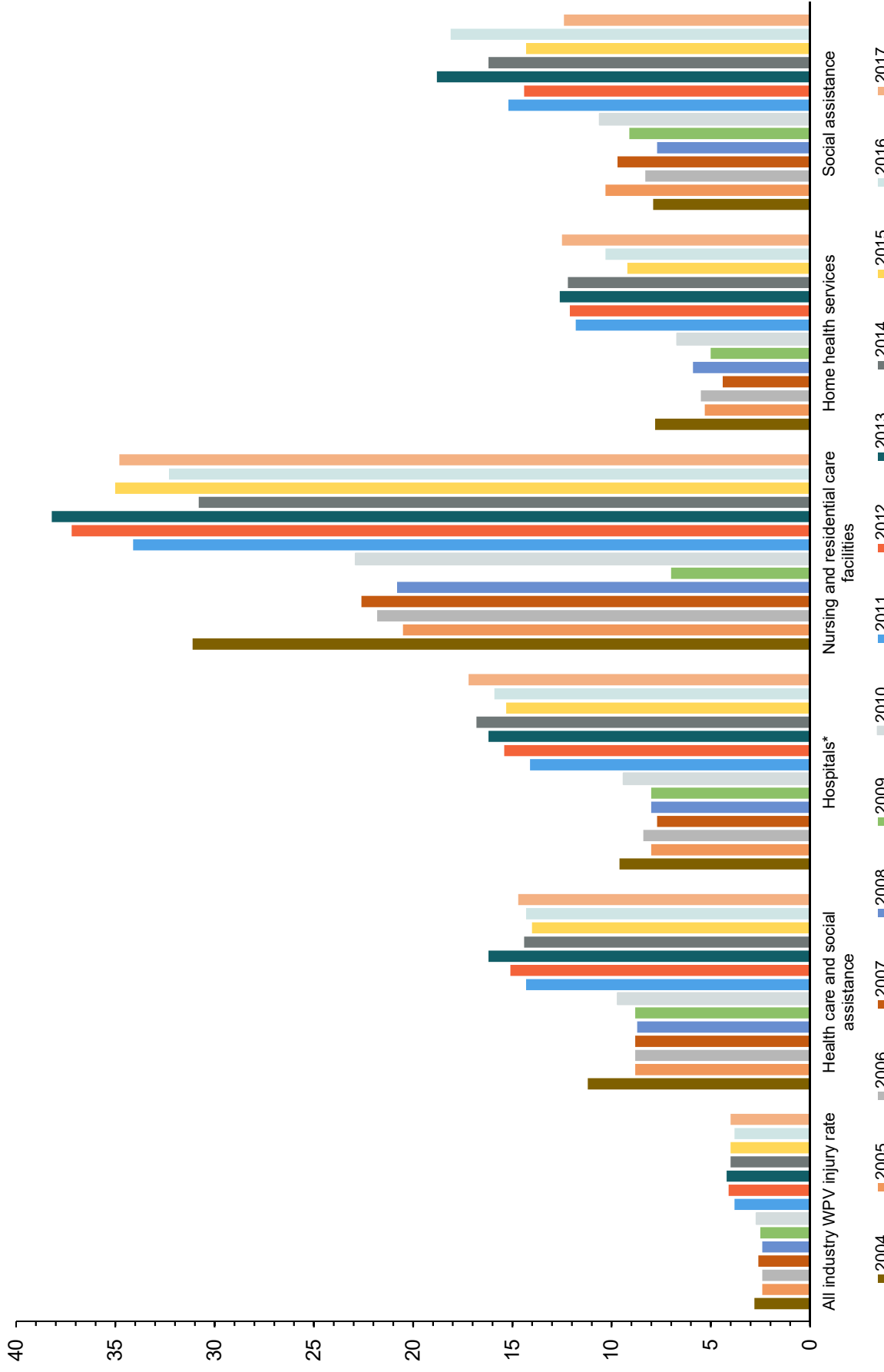
Total Injury and Illness Rates Compared with Workplace Violence Injury Rates, Private Industry, 1992–2017¹



Source: U.S. Department of Labor, Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses.

¹Rate of injuries and illnesses leading to days away from work, per 10,000 workers.

Workplace Violence (WPV) Rates for Injuries Leading to Days Away from Work in Selected Health Care Industries, Private Industry, 2004–2017¹

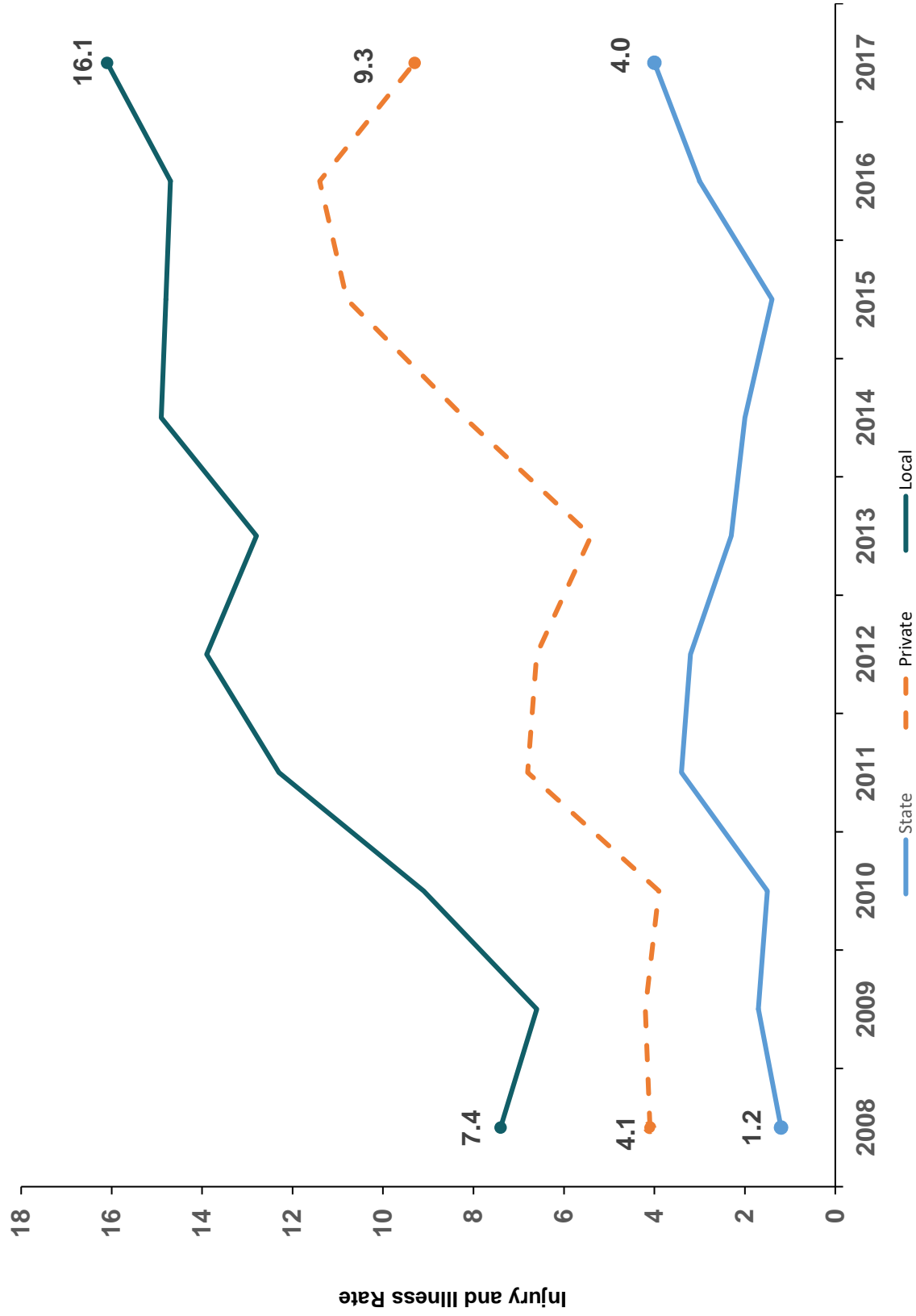


Source: U.S. Department of Labor, Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses.

¹Rate per 10,000 workers.

*The subcategory "psychiatric and substance abuse hospitals" had a workplace violence injury rate of 181.1 per 10,000 workers in 2017; 123.6 in 2016; 133.4 in 2015; 170.2 in 2014; 134.6 in 2013; 111.7 in 2012; 117.6 in 2011; 77.0 in 2010; 77.9 in 2009; 70.2 in 2008; 60.1 in 2007; and 84.3 in 2006. Data not available for 2005 and 2004.

Workplace Violence Rates in Educational Services for Private Industry, State and Local Government, 2008–2017¹



Source: U.S. Department of Labor, Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses.

¹Rate of injuries and illnesses leading to days away from work, per 10,000 workers.

Estimated and Reported Cases of Musculoskeletal Disorders, Private Industry, 1995–2017^{1,2}

| Year | Total MSD Cases ¹ | MSD Cases with Days Away from Work, Job Transfer or Restriction ^{1,3} | MSD Cases with Job Transfer or Restriction ^{1,4} | MSDs Involving Days Away from Work ⁵ | Percent of Cases Involving MSDs |
|------|------------------------------|--|---|---|---------------------------------|
| 1995 | 2,242,211 | 1,013,486 | 317,539 | 695,800 | 34.1% |
| 1996 | 2,146,182 | 974,380 | 327,025 | 647,355 | 34.4% |
| 1997 | 2,101,795 | 980,240 | 353,888 | 626,352 | 34.2% |
| 1998 | 2,025,598 | 950,999 | 358,455 | 592,544 | 34.2% |
| 1999 | 1,951,862 | 938,038 | 355,698 | 582,340 | 34.2% |
| 2000 | 1,960,585 | 954,979 | 377,165 | 577,814 | 34.7% |
| 2001 | 1,773,304 | 870,094 | 347,310 | 522,500 | 34.0% |
| 2002 | 1,598,204 | 848,062 | 359,788 | 487,915 | 34.0% |
| 2003 | 1,440,516 | 759,627 | 325,380 | 435,180 | 33.0% |
| 2004 | 1,362,336 | 712,000 | 309,024 | 402,700 | 32.0% |
| 2005 | 1,264,260 | 655,440 | 285,030 | 375,540 | 30.0% |
| 2006 | 1,233,791 | 638,609 | 281,192 | 357,160 | 30.2% |
| 2007 | 1,152,778 | 586,368 | 252,634 | 333,760 | 28.8% |
| 2008 | 1,086,653 | 558,835 | 241,844 | 317,440 | 29.4% |
| 2009 | 963,644 | 490,216 | 206,506 | 283,800 | 29.4% |
| 2010 | 934,337 | 487,421 | 202,795 | 284,340 | 30.5% |
| 2011 | 1,018,397 | 534,697 | 214,966 | 309,940 | 34.1% |
| 2012 | 1,032,811 | 539,793 | 225,515 | 314,470 | 34.7% |
| 2013 | 1,015,212 | 522,988 | 215,348 | 307,640 | 33.5% |
| 2014 | 955,072 | 507,382 | 208,922 | 298,460 | 32.3% |
| 2015 | 954,501 | 509,067 | 222,717 | 286,350 | 31.7% |
| 2016 | 921,394 | 508,355 | 222,405 | 285,950 | 31.8% |
| 2017 | 879,667 | 471,250 | 188,500 | 282,750 | 31.2% |

Source: U.S. Department of Labor, Bureau of Labor Statistics.

¹Total MSD cases, MSD days away, job transfer or restriction cases, and MSD job transfer or restriction cases are estimated based upon the percentage of MSD cases reported by BLS for the total days away from work cases involving MSD in private industry.

²These figures are based on employer-reported cases of MSDs provided to BLS. The number of cases shown here does not reflect the impact of under-reporting, which would significantly increase the true toll of MSDs occurring among workers. OSHA has estimated that for every reported MSD, two MSDs go unreported.

³Through 2001, this column was titled Total MSD Lost Workday Cases. The new title reflects the change in the recordkeeping standard that went into effect Jan. 1, 2002. Lost workday cases were defined as those that involve days away from work, days of restricted work activity, or both. They do not include cases involving only restricted work activity.

⁴Through 2001, this column was titled MSD Cases with Days of Restricted Activity. The new title reflects the change in the recordkeeping standard that went into effect Jan. 1, 2002.

⁵Days away from work cases include those that result in days away from work without job transfer or restriction. They do not include cases involving only restricted work activity. Prior to 2002, days away from work cases included those that resulted in days away from work with restricted activity.

Highest Rates of Musculoskeletal Disorders by Occupation, 2017^{1,2}

| Occupation | Incidence Rate | Number of MSDs ³ |
|---|----------------|--------------------------------|
| Bus drivers, transit and intercity | 206.2 | 2,540 |
| Emergency medical technicians and paramedics | 187.4 | 4,310 |
| Firefighters | 167.5 | 5,860 |
| Nursing assistants | 166.3 | 18,090 |
| Highway maintenance workers | 164.2 | 2,060 |
| Reservation and transportation ticket agents and travel clerks | 127.2 | 1,510 |
| Telecommunications equipment installers and repairers, except line installers | 119.6 | 2,470 |
| Laborers and freight, stock and material movers, handlers | 117.6 | 24,800 |
| Light truck or delivery services drivers | 105.7 | 8,680 |
| Maids and housekeeping cleaners | 100.7 | 6,760 |

Source: U.S. Department of Labor, Bureau of Labor Statistics.

¹MSDs leading to days away from work with or without job transfer or restriction.

²Includes cases where the nature of injury is sprains, tears; back pain, hurt back; soreness, pain, hurt except back; carpal tunnel syndrome; hernia; musculoskeletal system and connective tissue diseases and disorders; and when the event or exposure leading to the injury or illness is bodily reaction/bending, climbing, crawling, reaching, twisting, overexertion or repetition. Cases of Raynaud's phenomenon, tarsal tunnel syndrome and herniated spinal discs are not included. Although these cases may be considered MSDs, the survey classifies these cases in categories that also include non-MSD cases.

³Includes total number in private industry, state and local government.

Highest Incidence Rates of Musculoskeletal Disorders by Industry, 2017

| Industry (NAICS Code) ¹ | Incidence Rate ² | Number of Total Cases |
|---|-----------------------------|-----------------------|
| 000 All Private Industry ³ | 28.6 | 282,750 |
| 481 Air transportation | 157.9 | 6,430 |
| 492 Couriers and messengers | 123.2 | 5,910 |
| 493 Warehousing and storage | 85.9 | 8,190 |
| 711 Performing arts and spectator sports | 83.2 | 2,470 |
| 623 Nursing and residential care facilities | 69.6 | 17,940 |
| 517 Telecommunications | 62.5 | 4,670 |
| 484 Truck transportation | 62.3 | 9,580 |
| 444 Building material and garden supply stores | 62.2 | 6,430 |
| 424 Merchant wholesalers — nondurable goods | 59.8 | 12,000 |
| 562 Waste management and remediation services | 59.4 | 2,430 |
| 622 Hospitals | 55.6 | 21,990 |
| 454 Nonstore retailers | 51.4 | 2,490 |
| 445 Food and beverage stores | 51.1 | 11,180 |
| 312 Beverage and tobacco product manufacturing | 49.2 | 1,610 |
| 316 Leather and allied product manufacturing | 48.7 | 130 |
| 442 Furniture and home furnishings stores | 48.0 | 1,680 |
| 336 Transportation equipment manufacturing | 45.6 | 7,550 |
| 327 Nonmetallic mineral product manufacturing | 45.3 | 1,930 |
| 111 Crop production ⁴ | 40.7 | 1,640 |
| 311 Food manufacturing | 40.4 | 6,390 |
| 721 Accommodation | 39.7 | 6,250 |
| 331 Primary metal manufacturing | 39.6 | 1,560 |
| 212 Mining (except oil and gas) | 38.3 | 800 |
| 452 General merchandise stores | 38.1 | 8,450 |
| 488 Support activities for transportation | 36.3 | 2,310 |
| 337 Furniture and related product manufacturing | 35.5 | 1,370 |
| 238 Specialty trade contractors | 35.2 | 13,980 |
| 321 Wood product manufacturing | 34.7 | 1,400 |
| 487 Scenic and sightseeing transportation | 33.3 | 80 |
| 482 Rail Transportation | 32.8 | 720 |

Source: U.S. Department of Labor, Bureau of Labor Statistics.

¹Does not include state or local government.

²Rates of MSDs leading to days away from work, per 10,000 workers.

³All private industry MSDs led to a median of 13 days away from work.

⁴Excludes farms with fewer than 11 employees.

Highest Numbers of Musculoskeletal Disorders by Industry, 2017

| Industry (NAICS Code) ¹ | Number of Total Cases | Incidence Rate ² |
|---|-----------------------|-----------------------------|
| 000 All Private Industry ³ | 282,750 | 28.6 |
| 622 Hospitals | 21,990 | 55.6 |
| 623 Nursing and residential care facilities | 17,940 | 69.6 |
| 238 Specialty trade contractors | 13,980 | 35.2 |
| 424 Merchant wholesalers — nondurable goods | 12,000 | 59.8 |
| 621 Ambulatory health care services | 11,500 | 20.5 |
| 445 Food and beverage stores | 11,180 | 51.1 |
| 722 Food services and drinking places | 9,750 | 13.6 |
| 484 Truck transportation | 9,580 | 62.3 |
| 561 Administrative and support services | 9,570 | 20.0 |
| 423 Merchant wholesalers — durable goods | 9,000 | 31.6 |
| 452 General merchandise stores | 8,450 | 28.1 |
| 493 Warehousing and storage | 8,190 | 85.9 |
| 444 Building material and garden equipment and supply dealers | 6,430 | 62.2 |
| 481 Air transportation | 6,430 | 157.9 |
| 311 Food manufacturing | 6,390 | 40.4 |
| 721 Accommodation | 6,250 | 39.7 |
| 492 Couriers and messengers | 5,910 | 123.2 |
| 624 Social assistance | 5,600 | 25.6 |
| 441 Motor vehicle and parts dealers | 5,290 | 27.9 |
| 517 Telecommunications | 4,670 | 62.5 |
| 332 Fabricated metal product manufacturing | 4,400 | 30.6 |
| 541 Professional and technical services | 4,300 | 5.2 |
| 236 Construction of buildings | 4,200 | 29.4 |
| 811 Repair and maintenance | 3,900 | 32.4 |
| 531 Real estate | 3,730 | 26.6 |
| 713 Amusements, gambling and recreation | 2,640 | 26.5 |
| 454 Nonstore retailers | 2,470 | 51.4 |
| 711 Performing arts and spectator sports | 2,470 | 83.2 |
| 562 Waste management and remediation services | 2,430 | 59.4 |
| 611 Educational services | 2,410 | 12.1 |

Source: U.S. Department of Labor, Bureau of Labor Statistics.

¹Does not include state or local government.

²Rates of MSDs leading to days away from work, per 10,000 workers.

³All private industry MSDs led to a median of 13 days away from work.

Estimates of the True Toll of Workplace Injuries and Illnesses

| | Estimated 2017 Figures Accounting for Impact of Undercounting Injuries and Illnesses ¹ | 2017 Data Reported by Bureau of Labor Statistics |
|--|--|---|
| Total Number of Nonfatal Injuries and Illnesses in Private Industry | 8.4 million | 2.8 million |
| Total Nonfatal Injury and Illness Case Rate in Private Industry (cases per 100 workers) | 8.4 | 2.8 |
| Total Number of Injuries and Illnesses Involving Days Away from Work in Private Industry | 2.65 million | 882,730 |
| Case Rate for Nonfatal Injuries and Illnesses Involving Days Away from Work (cases per 100 workers) in Private Industry | 2.7 | 0.9 |
| Total Number of Musculoskeletal Disorders—Cases Involving Days Away from Work in Private Industry | 848,250 | 282,750 |
| Total Number of Estimated Cases of Musculoskeletal Disorders in Private Industry | 2,639,001 | 879,667 |

Source: U.S. Department of Labor, Bureau of Labor Statistics.

¹ A detailed comparison of individual injury and illness reports from various reporting systems found that only one in three workplace injuries and illnesses was reported on the OSHA Log and captured by the Bureau of Labor Statistics survey. This study did not address the number of injuries and illnesses that are not reported to any reporting system in the first place. Thus, this study represents a conservative estimate of under-reporting of the true toll of injuries and illnesses. For more details on the study, see the paper by Rosenman, et al., "How Much Work-Related Injury and Illness is Missed by the Current National Surveillance System?," *Journal of Occupational and Environmental Medicine*, 48(4): 357–365, April 2006.

Federal OSHA Inspection/Enforcement Activity, FY 2010–2018

| | FY 2010 | FY 2011 | FY 2012 | FY 2013 | FY 2014 | FY 2015 | FY 2016 | FY 2017 | FY 2018 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Inspections | 41,018 | 40,625 | 40,950 | 39,178 | 36,167 | 35,822 | 31,948 | 32,396 | 32,020 |
| Safety | 34,353 | 33,338 | 33,598 | 31,920 | 29,343 | 28,903 | 25,704 | 26,607 | 26,453 |
| Health | 6,665 | 7,287 | 7,352 | 7,258 | 6,824 | 6,917 | 6,244 | 5,789 | 5,567 |
| Complaints Programmed | 8,036 | 8,762 | 9,568 | 9,503 | 9,577 | 9,037 | 8,870 | 8,254 | 7,510 |
| | 24,752 | 23,319 | 23,082 | 22,170 | 19,207 | 16,527 | 12,731 | 14,396 | 13,980 |
| Construction | 24,441 | 22,624 | 22,507 | 20,430 | 18,223 | 17,549 | 15,610 | 16,921 | 16,729 |
| Maritime | 300 | 340 | 386 | 411 | 370 | 357 | 297 | 292 | 274 |
| Manufacturing | 7,921 | 8,566 | 8,399 | 7,945 | 7,602 | 8,051 | 7,450 | 7,043 | 6,863 |
| Other | 8,356 | 9,094 | 9,654 | 10,392 | 9,972 | 9,863 | 8,591 | 8,140 | 8,154 |
| Average Case Hours/Inspections | | | | | | | | | |
| Safety | 19.0 | 20.4 | 20.3 | 22.5 | 22.0 | 22.3 | 21.0 | 20.21 | 19.26 |
| Health | 33.8 | 33.9 | 34.6 | 40.1 | 45.2 | 39.7 | 33.4 | 33.58 | 32.00 |
| Violations – Total | 96,610 | 81,861 | 78,760 | 78,037 | 67,556 | 65,044 | 59,856 | 51,273 | 50,910 |
| Willful | 1,513 | 572 | 424 | 316 | 433 | 527 | 524 | 319 | 341 |
| Repeat | 2,749 | 3,029 | 3,031 | 3,119 | 2,954 | 3,088 | 3,146 | 2,771 | 2,593 |
| Serious | 74,721 | 59,547 | 57,155 | 58,234 | 49,416 | 47,934 | 42,984 | 36,802 | 36,645 |
| Unclassified | 2 | 7 | 1 | - | 1 | 1 | 1 | - | 1 |
| Other | 17,298 | 18,436 | 18,038 | 16,260 | 14,597 | 13,016 | 11,895 | 11,300 | 11,265 |
| FTA | 327 | 270 | 107 | 77 | 155 | 107 | 152 | 81 | 65 |
| Penalties – Total (\$) | 181,391,692 | 178,289,800 | 168,842,092 | 149,994,488 | 143,535,247 | 156,525,585 | 162,872,470 | 196,837,526 | 196,598,571 |
| Willful | 81,906,139 | 22,737,340 | 15,053,400 | 12,484,996 | 17,474,793 | 21,581,025 | 21,794,276 | 20,808,006 | 21,108,034 |
| Repeat | 12,007,280 | 21,076,053 | 21,884,028 | 19,563,867 | 20,407,958 | 24,042,251 | 27,277,061 | 31,447,412 | 29,823,210 |
| Serious | 78,632,344 | 125,459,324 | 123,274,497 | 110,326,980 | 97,427,404 | 102,971,432 | 103,234,454 | 130,767,703 | 131,173,038 |
| Unclassified | 1,700 | 317,775 | 1,200 | - | 0 | 4,200 | - | - | 5,432 |
| Other | 5,018,568 | 7,299,625 | 7,829,960 | 6,855,744 | 6,500,117 | 7,222,074 | 8,537,920 | 12,183,280 | 12,926,576 |
| FTA | 3,825,661 | 1,399,683 | 797,507 | 762,901 | 1,724,976 | 704,143 | 2,028,758 | 1,631,125 | 1,561,970 |
| Average Penalty/ Violation (\$) | 1,878 | 2,178 | 2,144 | 1,922 | 2,125 | 2,406 | 2,721 | 3,839 | 3,862 |
| Willful | 54,135 | 39,751 | 35,503 | 39,509 | 40,357 | 40,951 | 41,592 | 65,229 | 61,900 |
| Repeat | 4,368 | 6,958 | 7,220 | 6,272 | 6,909 | 7,786 | 8,670 | 11,349 | 11,501 |
| Serious | 1,052 | 2,107 | 2,157 | 1,895 | 1,972 | 2,148 | 2,402 | 3,553 | 3,580 |
| Unclassified | 850 | 45,396 | 1,200 | - | 0 | 4,200 | - | - | 5,432 |
| Other | 290 | 396 | 434 | 422 | 445 | 555 | 718 | 1,078 | 1,148 |
| FTA | 11,699 | 5,184 | 7,453 | 9,908 | 11,129 | 6,581 | 13,347 | 20,137 | 24,030 |
| Percent Inspections with Citations Contested (%) | 8.0% | 10.8% | 11.4% | 6.0% | 6.6% | 7.4% | 8.3% | 8.5% | 8.3% |

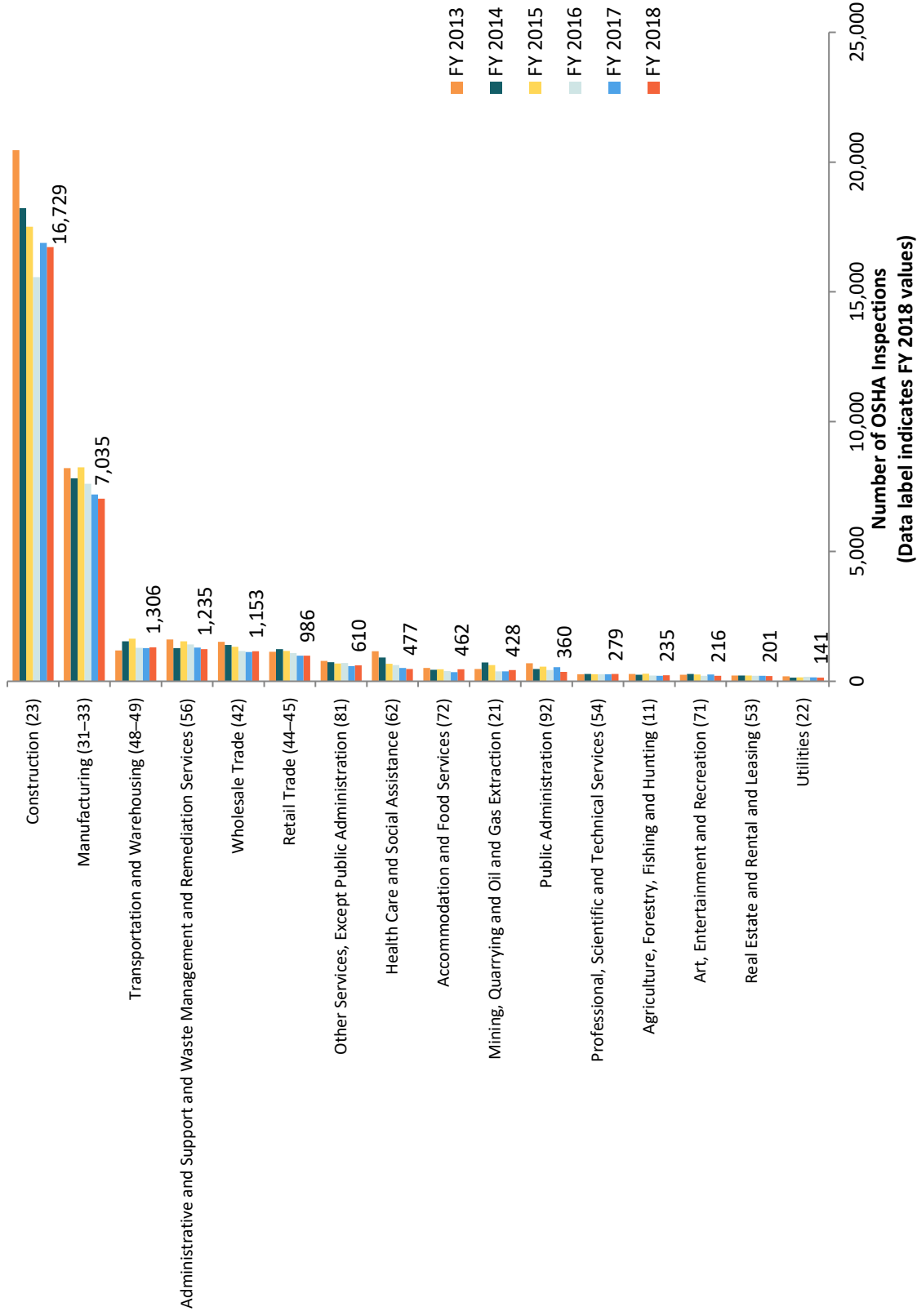
Sources: OSHA IMIS Inspection Reports, FY 2010–FY 2013, and OIS Federal Inspection Reports, FY 2012–FY 2018.

Federal OSHA and State Plan OSHA Inspection/Enforcement Activity, FY 2018

| | <u>FEDERAL OSHA</u> | <u>STATE PLAN OSHA</u> |
|---|---------------------|------------------------|
| Inspections | 32,020 | 41,066 |
| Safety | 26,453 | 31,703 |
| Health | 5,567 | 9,363 |
| | | |
| Complaints | 7,510 | 9,326 |
| Programmed | 13,980 | 17,801 |
| | | |
| Construction | 16,729 | 16,518 |
| Maritime | 274 | 102 |
| Manufacturing | 6,863 | 7,042 |
| Other | 8,154 | 17,404 |
| | | |
| Average Case Hours/Inspection | | |
| Safety | 19.26 | 22.38 |
| Health | 32.00 | 27.80 |
| | | |
| Violations – Total | 50,910 | 84,316 |
| Willful | 341 | 156 |
| Repeat | 2,593 | 2,177 |
| Serious | 36,645 | 41,946 |
| Unclassified | 1 | 20 |
| Other | 11,265 | 39,858 |
| FTA | 65 | 159 |
| | | |
| Penalties – Total (\$) | 196,598,571 | 115,090,871 |
| Willful | 21,108,034 | 6,473,883 |
| Repeat | 29,823,210 | 11,075,823 |
| Serious | 131,173,038 | 83,268,254 |
| Unclassified | 5,432 | 82,986 |
| Other | 12,926,576 | 11,680,422 |
| FTA | 1,561,970 | 2,509,503 |
| | | |
| Average Penalty/Violation (\$) | 3,862 | 1,365 |
| Willful | 61,900 | 41,499 |
| Repeat | 11,501 | 5,088 |
| Serious | 3,580 | 1,985 |
| Unclassified | 5,432 | 4,149 |
| Other | 1,148 | 293 |
| FTA | 24,030 | 15,783 |
| | | |
| Percent Inspections with Citations Contested | 8.3% | 17.3% |

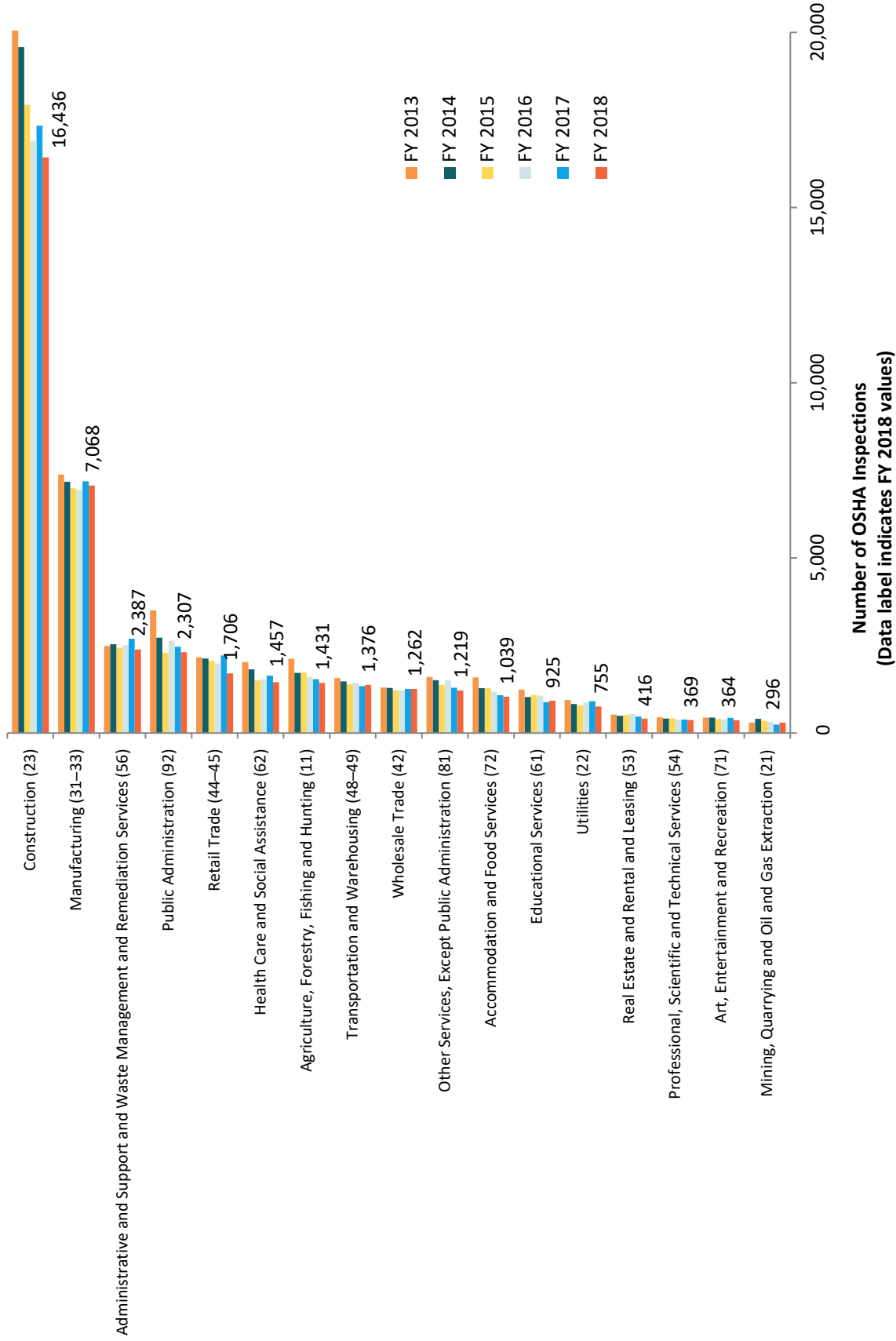
Source: Occupational Safety and Health Administration, OIS Federal Inspection Reports.

Number of Federal OSHA Inspections by Industry (Two-Digit NAICS Code), FY 2013–2018



Source: OSHA OIS inspection reports, FY2013–FY2018. Most recent data received Feb 5, 2019.

Number of State Plan OSHA Inspections by Industry (Two-Digit NAICS Code), FY 2013–2018



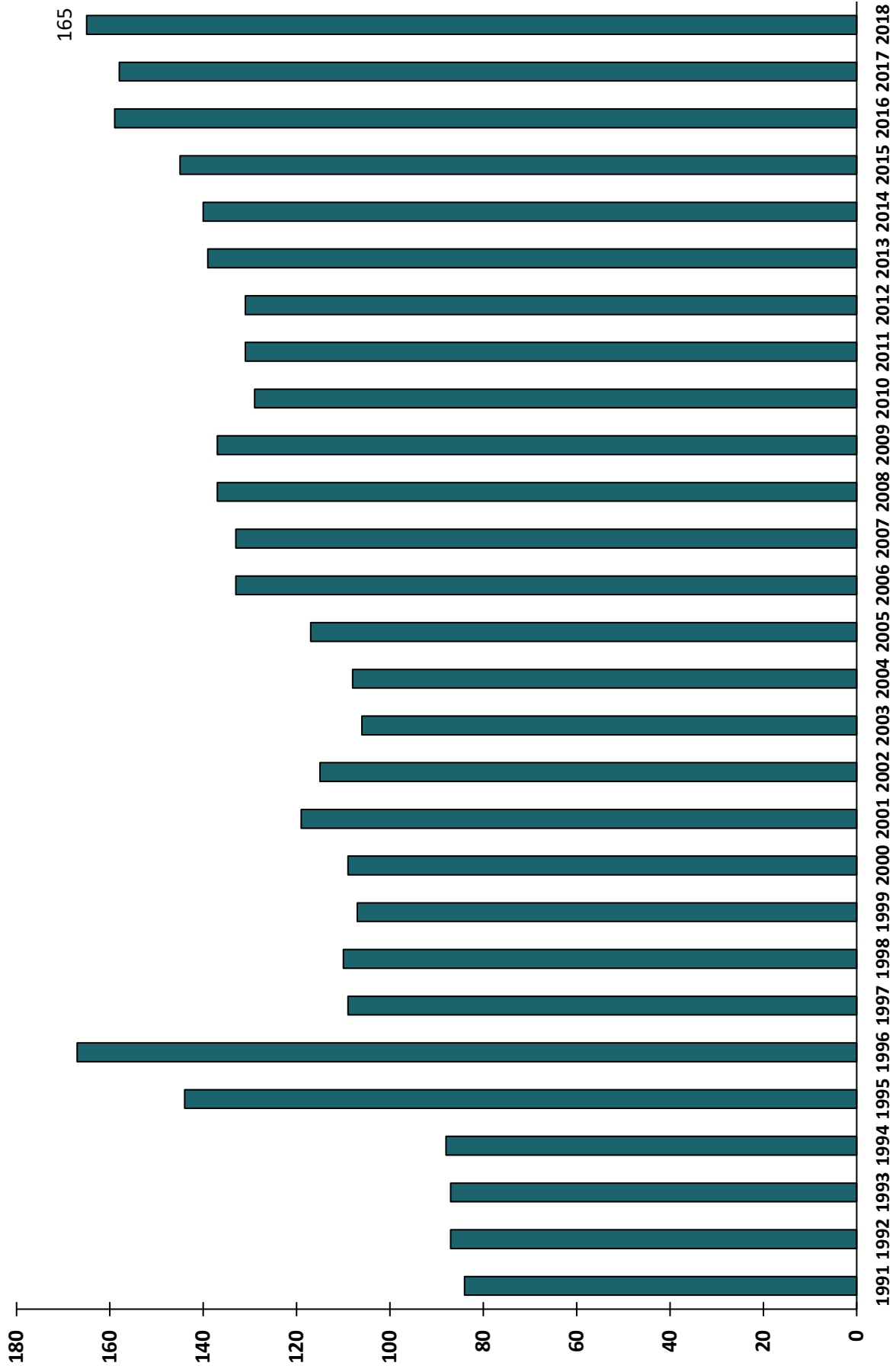
Source: OSHA IMIS inspection reports, FY2013–FY2015, and OIS inspection reports, FY2014–FY2018. Most recent data received Feb. 5, 2019.

Inspections and Investigations Under OSHA's Enforcement Weighting System

| | | FY 2016 | FY 2017 | FY 2018 | % Change FY 2016-2018 |
|----------------------------------|--------------------------|------------|------------|------------|-----------------------------|
| Total Inspections | | 31,948 | 32,396 | 32,020 | 0% |
| Total Enforcement Units | | 42,900 | 41,591 | 41,500 | -3% |
| With Inspections | | | | | |
| Significant Case | Number of Inspections | 131 | 53 | 65 | -50% |
| EU Value: 8 | Number of EUs | 1,048 | 424 | 520 | -50% |
| Process Safety Management | Number of Inspections | 234 | 140 | 232 | -1% |
| EU Value: 7 | Number of EUs | 1,638 | 980 | 1,624 | -1% |
| 5a1 Ergonomics | Number of Inspections | 69 | 44 | 19 | -72% |
| EU Value: 5 | Number of EUs | 345 | 220 | 95 | -72% |
| 5a1 Heat | Number of Inspections | 187 | 74 | 95 | -49% |
| EU Value: 4 | Number of EUs | 748 | 296 | 380 | -49% |
| Fatality/Catastrophe | Number of Inspections | 866 | 825 | 910 | 5% |
| EU Value: 3 | Number of EUs | 2,598 | 2,475 | 2,730 | 5% |
| 5a1 Non-PEL Overexposure | Number of Inspections | 20 | 5 | 14 | -30% |
| EU Value: 3 | Number of EUs | 60 | 15 | 42 | -30% |
| 5a1 Workplace Violence | Number of Inspections | 49 | 40 | 41 | -16% |
| EU Value: 3 | Number of EUs | 147 | 120 | 123 | -16% |
| Federal Agencies | Number of Inspections | 657 | 768 | 620 | -6% |
| EU Value: 2 | Number of EUs | 1,314 | 1,536 | 1,240 | -6% |
| Combustible Dust | Number of Inspections | 491 | 419 | 397 | -19% |
| EU Value: 2 | Number of EUs | 982 | 838 | 794 | -19% |
| Personal Sampling | Number of Inspections | 1,582 | 1,459 | 1,270 | -20% |
| EU Value: 2 | Number of EUs | 3,164 | 2,918 | 2,540 | -20% |
| All Other Inspections | Number of Inspections | 27,662 | 28,569 | 28,357 | 3% |
| EU Value: 1 | Number of EUs | 27,662 | 28,569 | 28,357 | 3% |
| Without Inspections | | | | | |
| Phone/Fax | Number of Complaints | 21,738 | 21,243 | 19,338 | -11% |
| EU Value: 1/9 | Number of EUs | 2,410 | 2,355 | 2,144 | -11% |
| Rapid Response | Number of Investigations | 7,088 | 7,645 | 8,244 | 16% |
| EU Value: 1/9 | Number of EUs | 784 | 845 | 911 | 16% |

Source: Occupational Safety and Health Administration, OIS Federal Inspection Reports.

Years for Federal OSHA to Inspect Each Workplace Once FY 1991–2018^{1,2}



¹Years to inspect is based on the number of establishments and the number of OSHA inspections for each fiscal year.

²FY 1995–1996 inspections declined significantly during the Clinton administration's "Reinventing Government" initiative.

Average Total Penalty per OSHA Fatality Inspection, FY 2011–2018

| Fiscal Year | Number of Fatality Inspections Conducted | Total Current Penalties (\$) | Average Total Penalty Per Inspection (\$) |
|-----------------------------------|--|------------------------------|---|
| <u>FY 2011</u> | | | |
| Federal States | 754 | 12,451,612 | 16,514 |
| State Plan States | 680 | 9,803,145 | 14,416 |
| Nationwide | 1,434 | 22,254,757 | 15,519 |
| <u>FY 2012¹</u> | | | |
| Federal States | 945 | 9,270,422 | 9,810 |
| State Plan States | 599 | 4,713,458 | 7,869 |
| Nationwide | 1,544 | 13,983,880 | 9,057 |
| <u>FY 2013</u> | | | |
| Federal States | 797 | 7,744,931 | 9,718 |
| State Plan States | 635 | 6,131,773 | 9,656 |
| Nationwide | 1,432 | 13,876,704 | 9,751 |
| <u>FY 2014</u> | | | |
| Federal States | 900 | 11,912,254 | 13,236 |
| State Plan States | 697 | 6,393,686 | 9,173 |
| Nationwide | 1,597 | 18,305,940 | 11,463 |
| <u>FY 2015</u> | | | |
| Federal States | 967 | 11,412,315 | 11,802 |
| State Plan States | 842 | 5,358,100 | 6,364 |
| Nationwide | 1,809 | 16,770,415 | 9,271 |
| <u>FY 2016</u> | | | |
| Federal States | 945 | 13,941,452 | 14,753 |
| State Plan States | 583 | 6,363,471 | 10,915 |
| Nationwide | 1,528 | 20,304,923 | 13,289 |
| <u>FY 2017</u> | | | |
| Federal States | 906 | 17,351,501 | 19,152 |
| State Plan States | 790 | 7,389,944 | 9,354 |
| Nationwide | 1,696 | 24,741,445 | 14,588 |
| <u>FY 2018</u> | | | |
| Federal States | 873 | 14,608,527 | 16,734 |
| State Plan States | 732 | 8,232,798 | 11,247 |
| Nationwide | 1,605 | 22,841,324 | 14,231 |

Source: OSHA IMIS Fatality Inspection Reports, FY 2011–2015, and OSHA OIS Fatality Inspection Reports, FY 2013–2018.

¹OSHA OIS Fatality Inspection Report for FY 2012 may include inspections that did not involve a fatality.

| Significant OSHA Enforcement Cases Based on Total Penalty Issued, FY 2018¹ | | | | | |
|--|--------------|--|------------------------------|-------------------------------------|-------------------------------|
| Company Name | State | Inspection Number(s) | Date Citations Issued | Total Initial Penalty Issued | Current Penalty Issued |
| Didion Milling Inc. ² | WI | 1236533 | 11/17/17 | \$1,837,861 | \$1,837,861 |
| First Marine LLC HUTCO Inc. Thermal Control and Fabrication Inc. | KY | 1292252 1304227 1292344 1292350 1305198 | 7/17/18 | \$1,431,049 | \$693,491 |
| Dudley Lumber Company Inc. East Alabama Lumber Company Inc. | AL | 1235518 1237205 1247940 | 11/17/17 | \$973,399 | \$415,475 |
| Marshall Pottery Inc. | TX | 1226618 1231190 | 10/11/17 | \$944,366 | \$545,160 |
| City Redevelopment LLC ³ | NV | 1292767 | 6/20/18 | \$630,000 | \$630,000 |
| H.B./Fuller Company dba Adhesive System Inc. ⁴ | IL | 1291440 1301657 | 7/25/18 | \$590,335 | \$587,564 |
| Alexander Tank Company | TX | 1293079 1291102 | 7/24/18 | \$519,950 | \$169,953 |
| German Pellet Texas LLC | TX | 1272047 1272065 | 4/17/18 | \$516,446 | \$305,884 |
| Nox US LLC | OH | 1244737 1248648 | 12/21/17 | \$514,236 | \$270,000 |
| Gavilon Grain LLC | KS | 1285649 1286170 | 6/28/18 | \$507,374 | \$507,374 |
| Manuel Galladro's Construction Services | IL | 1257385 1261444 1262666 1268516 1270984 1279312 | 2/20/18 | \$496,944 | \$287,093 |
| Dollar Tree Stores Inc. ³ | VA | 1308029 | 9/26/18 | \$479,418 | \$281,600 |
| Douglas Stephen Plastics Inc. | NJ | 1267353 1268998 | 3/20/18 | \$435,679 | \$435,679 |
| Sperry & Rice LLC | OH | 1296462 1298240 | 8/16/18 | \$400,775 | \$400,775 |
| USA Compression Partners LLC GBW Railcar Services LLC | TX | 1306452 1306379 | 9/27/2018 | \$388,020 | \$148,741 |

Source: Occupational Safety and Health Administration.

¹On Aug. 1, 2016, as a result of OSHA's new penalty structure, OSHA raised the threshold for significant enforcement cases from cases resulting in a total proposed penalty of more than \$100,000 to cases with a total proposed penalty of more than \$180,000. In FY 2018, OSHA brought 78 federal and 17 state significant enforcement cases; two of these were against federal agencies.

²This significant case involved an egregious violation.

³This significant case was issued under an OSHA state plan, which may have different criteria for a significant case, but this case exceeds the federal threshold for a significant case.

⁴dba = "doing business as"

Largest-Ever OSHA Enforcement Cases Based on Total Penalty Issued

| Company Name | Inspection Number(s) | Date Citations Issued | Total Penalty Issued | Penalty Amount Paid ¹ |
|-----------------------------------|----------------------|-----------------------|----------------------|----------------------------------|
| BP Products North America | 311962674 | 10/29/2009 | \$81,340,000 | \$50,610,000 |
| | 308314640 | | | \$14,567,000 |
| BP Products North America | 308314640 | 9/21/2005 | \$21,361,500 | \$205,000 |
| | 308314988 | | | (Formal settlements) |
| IMC Fertilizer/Angus Chemical | 107607863 | 10/31/1991 | \$11,550,000 | \$10,000,000 |
| | 107607871 | | | |
| Imperial Sugar | 310988712 | 7/25/2008 | \$8,777,500 | \$6,050,000 |
| | 311522858 | | | (Formal settlement) |
| O&G Industries Inc. | 109179937 | 8/3/2010 | \$8,347,000 | \$1,000,000 |
| | 314295460 | | | (Formal settlement) |
| Samsung Guam Inc. | 107329740 | 9/21/1995 | \$8,260,000 | \$1,829,000 |
| | 106196801 | | | (Formal settlement) |
| CITGO Petroleum | 110416880 | 8/29/1991 | \$8,155,000 | \$5,800,000 |
| | 109061648 | | | |
| Dayton Tire | 100504950 | 4/18/1994 | \$7,490,000 | \$7,490,000 |
| USX (aka U.S. Steel Corp.) | 018252858 | 10/26/1989 | \$7,275,300 | \$3,268,845 |
| | 102873288 | 11/2/1989 | | |
| | 109179952 | 8/3/2010 | | |
| Keystone Construction Maintenance | 314295445 | 4/19/1990 | \$6,395,200 | \$250,000* |
| | 106612443 | | | (Formal settlement) |
| Phillips 66/Fish Engineering | 107365751 | 9/8/1993 | \$6,328,000 | \$410,000 |
| | 108662420 | | | (Formal settlement) |
| Hercules Inc. | 100490705 | 1/27/1993 | \$5,085,000 | \$100,000 (ALJ decision) |
| Arcadian | 102281292 | 6/31/1994 | \$5,008,500 | \$5,085,000 |
| | 102281128 | | | (OSHRC decision) |
| E. Smalis Painting | 108753690 | 10/28/1988 | \$4,330,000 | \$1,092,750 |
| John Morrell | 101456325 | 11/4/1987 | \$4,175,940 | \$990,000 |
| Bath Iron Works | 101450336 | | | (Formal settlement) |
| | 101450294 | | | \$650,000 |
| | | | | (Formal settlement) |

Largest-Ever OSHA Enforcement Cases Based on Total Penalty Issued

| Company Name | Inspection Number(s) | Date Citations Issued | Total Penalty Issued | Penalty Amount Paid ¹ |
|---|-------------------------------|-----------------------|----------------------|------------------------------------|
| Fraser Paper | 102749868 102750395 | 9/17/1991 | \$3,982,500 | \$1,286,233 (Formal settlement) |
| Decoster Egg Farms (aka Maine Contract Farming LLC) | 122375512 | 7/12/1996 | \$3,555,500 | \$1,887,500 (Formal settlement) |
| Arco Chemical Co. | 110318540 | 1/3/1999 | \$3,481,300 | \$3,481,300 |
| Sunfield, Inc. | 1117773 1128049 | 6/29/2016 | \$3,426,900 | Violations under contest |
| The Budd Company | 18252510 | 12/12/1989 | \$3,345,600 | \$1,528,000 (Formal settlement) |
| McCroory Stores | 113919278 | 11/7/1991 | \$3,188,000 | \$500,000 (ALJ decision) |
| IBP | 100059591 | 5/11/1998 | \$3,133,100 | \$532,030 (OSHR decision) |
| BP North America Inc. and BP Husky Refining LLC | 311611081 | 3/8/2010 | \$3,042,000 | \$3,042,000 |
| Shell Oil Chemical Co. | 103342093 | 11/22/1994 | \$3,017,000 | \$3,017,000 |
| Union Carbide | 110398310 | 9/12/1991 | \$2,803,500 | \$1,496,500 (Formal settlement) |
| Ajin USA Alliance Total Solutions LLC Joynus Staffing Group | 1156866 1165706 1165707 | 12/12/2016 | \$2,565,621 | Violations under contest |
| Dover Greens LLC (dba as Olivet Management LLC) | 945519 | 3/31/2014 | \$2,359,000 | \$700,000 (Formal settlement) |
| Republic Steel | 942971 942968 | 3/31/2014 | \$2,086,000 | \$240,614 |
| Aluminum Shapes LLC | 1206035 | 7/20/2017 | \$1,922,895 | Violations under contest |

Source: Occupational Safety and Health Administration.

¹Penalty amount paid information comes from March 26, 2012, posting by Celeste Monforton on the Pump Handle blog at www.scienceblogs.com/theumphandle/2012/03/26/federal-osha-penalties-101-a-i/ and from www.osha.gov/pls/ir/insp/inspectionNr.html.

*Settlement called for Keystone Construction Maintenance also to pay 5% of its annual revenue above a set amount for each of the seven years following the settlement.

Disposition of Federal OSHA 11(c) Whistleblower Complaints, FY 2005–2018

| Fiscal Year | Cases Received | Cases Completed ¹ | Complaint Determinations | | | | | | |
|-------------|----------------|------------------------------|--------------------------|-------|---------|---------------|-----------|-----------|----------------------|
| | | | Total Merit | Merit | Settled | Settled Other | Dismissed | Withdrawn | Total Determinations |
| 2005 | 1,194 | 1,160 | 294 | 23 | 224 | 47 | 760 | 146 | 1,200 |
| 2006 | 1,195 | 1,229 | 293 | 14 | 213 | 66 | 787 | 196 | 1,276 |
| 2007 | 1,301 | 1,167 | 262 | 14 | 190 | 58 | 766 | 176 | 1,204 |
| 2008 | 1,381 | 1,255 | 261 | 14 | 202 | 45 | 830 | 227 | 1,318 |
| 2009 | 1,267 | 1,168 | 287 | 22 | 210 | 55 | 726 | 187 | 1,200 |
| 2010 | 1,402 | 1,144 | 334 | 24 | 244 | 66 | 672 | 177 | 1,183 |
| 2011 | 1,668 | 1,234 | 411 | 23 | 314 | 74 | 694 | 177 | 1,282 |
| 2012 | 1,745 | 1,653 | 400 | 18 | 294 | 88 | 977 | 340 | 1,717 |
| 2013 | 1,708 | 1,827 | 611 | 41 | 369 | 201 | 921 | 415 | 1,947 |
| 2014 | 1,751 | 1,794 | 483 | 13 | 309 | 161 | 957 | 426 | 1,866 |
| 2015 | 2,031 | 1,952 | 560 | 18 | 362 | 180 | 962 | 459 | 1,975 |
| 2016 | 2,030 | 2,035 | 581 | 29 | 342 | 210 | 1,043 | 472 | 2,096 |
| 2017 | 1,932 | 1,876 | 538 | 15 | 303 | 220 | 877 | 502 | 1,917 |
| 2018 | 1,870 | 1,740 | 510 | 20 | 269 | 221 | 870 | 377 | 1,757 |

Source: Federal Occupational Safety and Health Administration, Directorate of Whistleblower Protection Programs.

¹Cases completed include cases received and backlog cases.

Disposition of OSHA State Plan 11(c) Whistleblower Complaints, FY 2009–2018

| Fiscal Year | Cases Received | Cases Completed ¹ | Complaint Determinations | | | | | | |
|-------------|----------------|------------------------------|--------------------------|---------------|---------|---------------|-----------|-----------|----------------------|
| | | | Total Merit | Merit Finding | Settled | Settled Other | Dismissed | Withdrawn | Total Determinations |
| 2009 | 1,043 | 882 | 158 | 31 | 94 | 33 | 654 | 121 | 933 |
| 2010 | 1,167 | 954 | 160 | 24 | 107 | 29 | 612 | 132 | 904 |
| 2011 | 1,462 | 839 | 168 | 24 | 125 | 19 | 626 | 135 | 929 |
| 2012 | 1,457 | 766 | 174 | 20 | 133 | 21 | 443 | 112 | 729 |
| 2013 | 1,192 | 1,059 | 248 | 58 | 139 | 51 | 655 | 215 | 1,118 |
| 2014 | 1,157 | 965 | 221 | 46 | 125 | 50 | 606 | 198 | 1,025 |
| 2015 | 1,060 | 1,120 | 219 | 27 | 145 | 47 | 606 | 300 | 1,125 |
| 2016 | 1,143 | 1,031 | 169 | 25 | 95 | 49 | 646 | 216 | 1,031 |
| 2017 | 1,183 | 1,222 | 259 | 66 | 115 | 78 | 766 | 206 | 1,231 |
| 2018 | 1,347 | 1,376 | 244 | 47 | 91 | 106 | 871 | 261 | 1,376 |

Source: Occupational Safety and Health Administration, Directorate of Cooperative and State Programs.

¹Cases completed include cases received and backlog cases.

Major OSHA Health Standards Since 1971

| Standard | Year Final Standard Issued |
|---|-------------------------------|
| 1. Asbestos | 1972 |
| 2. Fourteen Carcinogens | 1974 |
| 3. Vinyl Chloride | 1974 |
| 4. Coke Oven Emissions | 1976 |
| 5. Benzene (vacated) | 1978 |
| 6. DBCP | 1978 |
| 7. Arsenic | 1978 |
| 8. Cotton Dust | 1978 |
| 9. Acrylonitrile | 1978 |
| 10. Lead | 1978 |
| 11. Cancer Policy | 1980 |
| 12. Access to Medical Records | 1980 |
| 13. Hearing Conservation | 1981 |
| 14. Hazard Communication | 1983 |
| 15. Ethylene Oxide | 1984 |
| 16. Asbestos (revised) | 1986 |
| 17. Field Sanitation | 1987 |
| 18. Benzene (revised) | 1987 |
| 19. Formaldehyde | 1987 |
| 20. Access to Medical Records (modified) | 1988 |
| 21. Permissible Exposure Limits (PELs) Update (vacated) | 1989 |
| 22. Chemical Exposure in Laboratories | 1990 |
| 23. Bloodborne Pathogens | 1991 |
| 24. 4,4'-methylenedianiline | 1992 |
| 25. Cadmium | 1992 |
| 26. Asbestos (partial response to court remand) | 1992 |
| 27. Formaldehyde (response to court remand) | 1992 |
| 28. Lead (construction) | 1993 |
| 29. Asbestos (response to court remand) | 1994 |
| 30. 1,3-Butadiene | 1996 |
| 31. Methylene Chloride | 1998 |
| 32. Respiratory Protection | 1998 |
| 33. Ergonomics (revoked under the Congressional Review Act) | 2000 |
| 34. Bloodborne Pathogens – Needlestick Injuries | 2001 |
| 35. Hexavalent Chromium (response to court order) | 2006 |
| 36. Hazard Communication – Globally Harmonized System | 2012 |
| 37. Crystalline Silica | 2016 |
| 38. Beryllium | 2017 |

Source: Code of Federal Regulations.

Major OSHA Safety Standards Since 1971

| Standard | Year Final Standard Issued |
|--|-------------------------------|
| 1. Cranes/Derricks (load indicators) | 1972 |
| 2. Roll-over Protective Structures (construction) | 1972 |
| 3. Power Transmission and Distribution | 1972 |
| 4. Scaffolding, Pump Jack Scaffolding and Roof Catch Platform | 1972 |
| 5. Lavatories for Industrial Employment | 1973 |
| 6. Trucks, Cranes, Derricks and Indoor General Storage | 1973 |
| 7. Temporary Flooring – Skeleton Steel Construction | 1974 |
| 8. Mechanical Power Presses | 1974 |
| 9. Telecommunications | 1975 |
| 10. Roll-over Protective Structures of Agricultural Tractors | 1975 |
| 11. Industrial Slings | 1975 |
| 12. Guarding of Farm Field Equipment, Farmstead Equipment and Cotton Gins | 1976 |
| 13. Ground-Fault Protection | 1976 |
| 14. Commercial Diving Operations | 1977 |
| 15. Servicing Multi-Piece Rim Wheels | 1980 |
| 16. Fire Protection | 1980 |
| 17. Guarding of Low-Pitched Roof Perimeters | 1980 |
| 18. Design Safety Standards for Electrical Standards | 1981 |
| 19. Latch-Open Devices | 1982 |
| 20. Marine Terminals | 1983 |
| 21. Servicing of Single-Piece and Multi-Piece Rim Wheels | 1984 |
| 22. Electrical Safety in Construction (Part 1926) | 1986 |
| 23. General Environmental Controls – TAGS (Part 1910) | 1986 |
| 24. Marine Terminals – Servicing Single-Piece Rim Wheels (Part 1917) | 1987 |
| 25. Grain Handling Facilities (Part 1910) | 1987 |
| 26. Safety Testing of Certification of Certain Workplace Equipment and Materials | 1988 |
| 27. Crane or Derrick Suspended Personnel Platforms (Part 1926) | 1988 |
| 28. Concrete and Masonry Construction (Part 1926) | 1988 |
| 29. Mechanical Power Presses (modified) | 1988 |
| 30. Powered Platforms (Part 1910) | 1989 |
| 31. Underground Construction (Part 1926) | 1989 |
| 32. Hazardous Waste Operations (Part 1910) (mandated by Congress) | 1989 |
| 33. Excavations (Part 1926) | 1989 |
| 34. Control of Hazardous Energy Sources (lockout/tagout) (Part 1910) | 1989 |
| 35. Stairways and Ladders (Part 1926) | 1990 |
| 36. Concrete and Masonry Lift-Slab Operations | 1990 |
| 37. Electrical Safety Work Practices (Part 1910) | 1990 |
| 38. Welding, Cutting and Brazing (Part 1910) (revision) | 1990 |
| 39. Chemical Process Safety | 1992 |
| 40. Confined Spaces (general industry) | 1993 |

Major OSHA Safety Standards Since 1971

| Standard | Year Final Standard Issued |
|--|-------------------------------|
| 41. Fall Protection | 1994 |
| 42. Electrical Power Generation | 1994 |
| 43. Personal Protective Equipment | 1994 |
| 44. Logging Operations | 1995 |
| 45. Scaffolds | 1996 |
| 46. PPE for Shipyards | 1996 |
| 47. Longshoring and Marine Terminals | 1997 |
| 48. Powered Industrial Truck Operator Training | 1998 |
| 49. Steel Erection | 2001 |
| 50. Electrical Equipment Installation | 2007 |
| 51. Employer Payment for Personal Protective Equipment | 2007 |
| 52. Cranes and Derricks in Construction | 2010 |
| 53. General Working Conditions for Shipyard Employment | 2011 |
| 54. Electric Power Generation, Transmission and Distribution | 2014 |
| 55. Confined Spaces (construction) | 2015 |
| 56. Walking-Working Surfaces and Personal Protective Equipment (Fall Protection Systems) (Part 1910) | 2016 |

Source: Code of Federal Regulations.

Impact on Workers' Lives from Delays in Recent OSHA Standards

| Hazard/Issue | Year Rulemaking Initiated | Year Rulemaking Completed | Years Elapsed Since Rulemaking Initiated | Lives Lost Per Year of Delay | Lives Lost Over Entire Rulemaking Period |
|----------------------------------|---------------------------|---------------------------|--|------------------------------|--|
| Cranes and Derricks ¹ | 2002 | 2010 | 8 | 22 | 176 |
| Hexavalent Chromium ² | 1993 | 2006 | 13 | 40 to 145 | 520 to 1,885 |
| Silica ³ | 1997 | 2016 | 19 | 642 | 12,198 |
| Beryllium ⁴ | 1998 | 2017 | 19 | 90 | 1,710 |

¹In 2002, OSHA initiated negotiated rulemaking on the cranes and derricks standard. The negotiated rulemaking committee recommended a draft rule in 2004. The proposed rule was issued in 2008 and the final rule promulgated in 2010. According to OSHA, the cranes and derricks standard also will prevent 175 injuries per year. Fatalities and injuries prevented per year by the new standard were obtained from OSHA's preamble to the final rule for cranes and derricks published in the Federal Register on Aug. 9, 2010.

²In 1993, a petition for an Emergency Temporary Standard for the carcinogen hexavalent chromium was submitted to OSHA. In 1994, OSHA denied the ETS petition but put hexavalent chromium on the regulatory agenda for normal rulemaking. OSHA failed to issue a proposed rule. Lawsuits in 1997 and in 2002 seeking to compel rulemaking resulted in a court-ordered timetable to issue a final standard by Jan. 18, 2006. According to OSHA, the standard also will prevent 209 to 1,045 cases of dermatitis and 1,140 cases of nasal perforations/ulcerations from occurring annually. Lung cancer and silicosis deaths and illnesses avoided per year by the new standard were obtained from OSHA's preamble to the final rule published in the Federal Register on Feb. 28, 2006.

³In 1997, silica was put on OSHA's regulatory agenda. In 2003, a draft silica standard underwent a Small Business Regulatory Enforcement Fairness Act review, but the rule then stalled. Work on the standard was reactivated in 2009, and on Feb. 14, 2011, the draft proposed standard was submitted to the Office of Management and Budget for review under Executive Order 12866. OMB review of proposed rules is required to be completed within 120 days under the EO, but due to political pressure from industries opposed to the new rule, the draft proposed rule was held by OMB for two and one-half years. The proposed rule finally was issued on Sept. 12, 2013; the final rule was issued on March 25, 2016. According to the preamble of the final rule, reducing the permissible exposure limit for silica to 50 µg/m³ will prevent 642 deaths and 918 cases of silica-related disease each year (81 FR 16285).

⁴In 1998, beryllium was put on OSHA's regulatory agenda. A petition for an Emergency Temporary Standard for the carcinogen beryllium was submitted to OSHA in 1999 and again in 2001. In 2002, OSHA denied the petition for an ETS but kept beryllium on the regulatory agenda for normal rulemaking. In 2002, OSHA issued a Request for Information. In 2012, the United Steelworkers and Materion Brush jointly submitted a draft standard to OSHA. OSHA published the proposed rule in 2015 and the final rule on Jan. 9, 2017. According to the preamble of the final rule, reducing the permissible exposure limit for beryllium to 0.2 µg/m³ will prevent 90 deaths and 46 cases of chronic beryllium disease each year (82 FR 2597). On June 27, 2017, the Trump administration proposed to repeal the exposure monitoring, medical surveillance and other ancillary provisions of the beryllium standard for construction and maritime workers, and has not enforced these requirements.

Permissible Exposure Limits of OSHA Compared with Other Standards and Recommendations¹

| Chemical ² | OSHA PEL | Cal/OSHA PEL | ACGIH TLV | NIOSH REL | Units |
|---|----------|--------------|-----------|-----------|-------------------|
| Acrylamide ³ | 0.3 | 0.03 | 0.03 | 0.03 | mg/m ³ |
| Ammonia | 50 | 25 | 25 | 25 | ppm |
| Asphalt fume ³ | - | 5.0 | 0.5 | 5.0 (s) | mg/m ³ |
| Benzene ³ | 1.0 | 1.0 | 0.5 | 0.1 | ppm |
| 1-Bromopropane ⁴ | - | 5.0 | 0.1 | - | ppm |
| n-Butanol | 100 | 50 (c) | 20 | 50 (c) | ppm |
| Carbon disulfide ⁵ | 20 | 1.0 | 1.0 | 1.0 | ppm |
| Carbon monoxide ⁵ | 50 | 25 | 25 | 35 | ppm |
| Chlorobenzene | 75 | 10 | 10 | - | ppm |
| Chlorodiphenyl (54% chlorine) (PCB) | 0.5 | 0.5 | 0.5 | 0.001 | mg/m ³ |
| Cobalt metal, dust and fume | 0.1 | 0.02 | 0.02 | 0.05 | mg/m ³ |
| Dimethyl sulfate ^{3,5} | 1.00 | 0.1 | 0.1 | 0.1 | ppm |
| 2-Ethoxyethanol (EGEE) | 200 | 5.0 | 5.0 | 0.5 | ppm |
| Ethyl acrylate ³ | 25 | 5.0 | 5.0 | - | ppm |
| Formaldehyde ⁴ | 0.75 | 0.75 | 0.1 | 0.016 | ppm |
| Gasoline ³ | - | 300 | 300 | - | ppm |
| Glutaraldehyde ⁵ | - | 0.05 (c) | 0.05 (c) | 0.2 (c) | ppm |
| Manganese compounds | 5.0 (c) | 0.2 | 0.02 | 1.0 | mg/m ³ |
| Methylene bisphenyl isocyanate (MDI) | 0.02 (c) | 0.005 | 0.005 | 0.005 | ppm |
| Styrene | 100 | 50 | 20 | 50 | ppm |
| Tetrachloroethylene (Perchloroethylene/PERC) ^{3,4,5} | 100 | 25 | 25 | - | ppm |
| Toluene ⁵ | 200 | 10 | 20 | 100 | ppm |
| Toluene-2,4-Diisocyanate (TDI) ³ | 0.02 (c) | 0.005 | 0.001 | - | ppm |
| Triethylamine | 25 | 1.0 (c) | 0.5 | - | ppm |
| Welding fume ³ | - | 5.0 | - | - | mg/m ³ |

¹(c) Ceiling level; (s) Short-term exposure limit.

²More available at www.osha.gov/dsg/annotated-pels/, OSHA Permissible Exposure Limits – Annotated Tables.

³NIOSH denotes carcinogenicity of chemicals according to Appendix A: www.cdc.gov/niosh/npg/hengapdx.html. NIOSH does not always assign an exposure limit for carcinogens and instead, recommends reducing exposure to the lowest feasible level.

⁴Designated or proposed by EPA as a high-priority chemical for regulation under the amended Toxic Substances Control Act.

⁵Chemicals identified by OSHA for updating permissible exposure limits but subsequently dropped from the agency's regulatory agenda.

**5(a)(1) Citation for Airborne Chemical Exposures
Since 2011–2018—Federal OSHA and State Plan Cases**

| Date Issued, Insp. #, State | Workplace Operation | Chemical (OSHA PEL) | Health Effects | Measured Exposure | Reference OEL |
|---------------------------------|--|------------------------------------|--|---------------------------------------|--|
| Feb. 14, 2011 313878563, FL | Spray painting in construction | VM&P Naptha (No PEL) | Lung, skin irritation, chemical pneumonia | 5,900 mg/m ³ 15 minutes | 1,800 mg/m ³ (C) REL NIOSH |
| April 8, 2011 314468745, MO | Construction work in sewer manhole | Hydrogen sulfide (10 ppm, 8 hour) | Lung, eye irritation, CNS, dizziness, coma | 235 ppm (assume direct read) | 100 ppm IDLH NIOSH |
| July 7, 2011 315638304, NC | Home furniture manufacture | 1-Bromopropane (No PEL) | Liver damage, neurotoxicity, fetal | 86 ppm 8 hours | 25 ppm AEL EPA |
| Aug. 2, 2011 315447078, NC | Operating propane forklift | Carbon monoxide (50 ppm, 8 hour) | Nausea, dizziness, cyanosis | 278 ppm (assume direct read) | No reference (200 ppm-C NIOSH) |
| Aug. 10, 2011 315685123, NC | Operating forklift | Carbon monoxide (50 ppm, 8 hour) | Nausea, dizziness, cyanosis | 2,622 ppm (assume direct read) | 200 ppm (C) REL NIOSH |
| Aug. 12, 2011 314677188, NJ | Applying adhesive in glass manufacturing | Ethyl cyanoacrylate (No PEL) | Respiratory illness, sensitization | 0.5 ppm 8 hours | 0.20 ppm TLV ACGIH |
| Aug. 25, 2011 313138430, WI | By furnace at steel foundry | Carbon monoxide (50 ppm, 8 hour) | Nausea, dizziness, cyanosis | 492 ppm (assume direct read) | 200 ppm (C) REL NIOSH |
| Sept. 7, 2011 29490, CO | Spray finishing auto body | HDIH ¹ (No PEL) | Nausea, dizziness, cyanosis | 2.34 mg/m ³ 19 minutes | 1 mg/m ³ STEL MSDS |
| Oct. 7, 2011 315121244, WI | Mixing and gluing ceramic fibers | Refractory ceramic fibers (No PEL) | Respiratory irritation, lung cancer, mesothelioma | 0.87 fibers/cc 8 hours | 0.5 f/cc REG HTIW |
| Nov. 7, 2011 62933, FL | Spray finishing auto body | HDIH ¹ (No PEL) | Respiratory irritation, chemical asthma | 1.23 mg/m ³ 19 minutes | 1mg/m ³ STEL MSDS |
| Feb. 28, 2012 315359471, FL | Roofer heating asphalt kettle | Asphalt fumes (No PEL) | Eye, upper respiratory irritation, cancer | 0.93 mg/m ³ 8 hours | 5 mg/m ³ REL NIOSH |
| March 6, 2012 316337708, NC | Spraying glue | 1-Bromopropane (No PEL) | Liver damage, neurotoxicity, fetal | 90 ppm 8 hour TWA | 25 ppm AEL EPA |
| March 16, 2012 316436021, NC | Operating forklift | Carbon monoxide (50 ppm, 8 hour) | Nausea, dizziness, cyanosis | 600 ppm (assume direct read) | 200 ppm (C) REL NIOSH |
| May 12, 2012 110849, WI | Handling molds in steel foundry | DMEA ² (No PEL) | Headache, nausea, blurred vision, increased heart rate | 17.7 ppm 8 hours | 3 ppm MSDS |
| May 24, 2012 316528181, NC | Operating forklift | Carbon monoxide (50 ppm, 8 hour) | Nausea, dizziness, cyanosis | 300 ppm (assume direct read) | 200 ppm (C) REL NIOSH |
| April 2, 2013 890719, NJ | Pouring food flavor chemical | Diacetyl (No PEL) | Lung damage, bronchiolitis obliterans | 0.094 ppm 15 minutes | 0.02 STEL ACGIH |
| April 19, 2013 702499, TX | Spraying powder coat on metal part | TGIC ³ (No PEL) | Respiratory illness, sensitization, male | 0.22 mg/m ³ 8 hours | 0.05 mg/m ³ TLV ACGIH |

**5(a)(1) Citation for Airborne Chemical Exposures
Since 2011–2018—Federal OSHA and State Plan Cases**

| Date Issued, Insp. #, State | Workplace Operation | Chemical (OSHA PEL) | Health Effects | Measured Exposure | Reference OEL |
|--------------------------------|---------------------------------------|--|---|---------------------------------------|---|
| June 18, 2013 315840883, NV | Animal surgery | Isoflurane (No Pel) | Reproductive, CNS, liver, kidney | 2.3 ppm (assume 60 minutes) | 2 ppm (C) REL NIOSH |
| Sept. 19, 2013 897143, WI | Manual work with fiberglass molds | Styrene (100 ppm PEL) | Respiratory, skin and eye irritation, CNS, liver | 65.2 ppm 10 hours | 50 ppm REL NIOSH |
| Sept. 30, 2013 899582, FL | Disinfecting endoscopy equipment | Glutaraldehyde (no PEL) | Respiratory illness, skin and eye irritation, sensitization, | 0.13 ppm (assume 15 minutes) | 0.05 ppm (C) TLV ACGIH |
| Feb. 3, 2014 925263, TX | Foam lamination for car seats | 2,6-TDI ⁴ (No PEL) | Respiratory illness, asthma, sensitizer | 0.08 mg/m ³ 8 hours | 0.036 mg/m ³ TLV ACGIH |
| March 21, 2014 947716, NV | Destruction of old munitions | TNT ⁵ (1.5 mg/m ³ 8 hour) | Respiratory, liver, kidneys CNS, eyes, skin | 0.17 mg/m ³ 8 hours | 0.1 mg/m ³ TLV ACGIH |
| Oct. 24, 2014 317376770, NV | Animal Surgery | Isoflurane (No Pel) | Reproductive, CNS, liver, kidney | Above REL (not posted) | 2ppm (C) REL NIOSH |
| Dec. 1, 2015 1068107, NJ | Fragrance manufacturing | Diacyetyl (No PEL) | Lung damage, bronchiolitis obliterans | 80.1 ppm 15 minutes | 0.02 STEL ACGIH |
| April 13, 2015 1055558, NJ | Fragrance manufacturing | Diacyetyl (No PEL) | Lung damage, bronchiolitis obliterans | 5.8969 ppm 15 minutes | 0.02 ppm STEL ACGIH |
| Jan. 17, 2017 1125064, PA | Travel trailer & camper manufacturing | TGIC ³ (No PEL) | Respiratory illness, sensitization, male reproduction | 0.866 mg/m ³ 8 hour TWA | 0.05 mg/m ³ TLV ACGIH |
| Feb. 26, 2018 1260141, PA | Degreasing | 1-Bromopropane (No PEL) | Nervous system damage, cancer, eye and respiratory irritation | 88.53 ppm 8 hour TWA | 0.1ppm TLV ACGIH 5.0ppm PEL CAL/OSHA |

Source: Occupational Health and Safety Administration.

¹HDIH is hexamethylene diisocyanate homopolymer.

²DMEA is dimethylethylamine.

³TGIC is 1,3,5- triglycidyl isocyanurate, aka 1,3,5-triglycidyl-s-triazinetrione.

⁴2,6-TDI is toluene diisocyanate.

⁵TNT is 2,4,6–Trinitrotoluene.

Federal OSHA Budget and Personnel FY 1980–2019

| Fiscal Year | Budget (in dollars – \$) | Positions (Staff Full-Time Equivalent Employment) |
|-------------------------|-----------------------------|--|
| 1980 | 186,394,000 | 2,951 |
| 1985 | 219,652,000 | 2,239 |
| 1990 | 267,147,000 | 2,425 |
| 1991 | 285,190,000 | 2,466 |
| 1992 | 296,540,000 | 2,473 |
| 1993 | 288,251,000 | 2,368 |
| 1994 | 296,428,000 | 2,295 |
| 1995 | 311,660,000 | 2,196 |
| 1996 | 303,810,000 | 2,069 |
| 1997 | 324,955,000 | 2,118 |
| 1998 | 336,480,000 | 2,171 |
| 1999 | 354,129,000 | 2,154 |
| 2000 | 381,620,000 | 2,259 |
| 2001 | 425,886,000 | 2,370 |
| 2002 | 443,651,000 | 2,313 |
| 2003 | 453,256,000 | 2,313 |
| 2004 | 457,500,000 | 2,236 |
| 2005 | 464,224,000 | 2,208 |
| 2006 | 472,427,000 | 2,165 |
| 2007 | 486,925,000 | 2,165 |
| 2008 | 486,001,000 | 2,118 |
| 2009 | 513,042,000 | 2,147 |
| 2010 | 558,620,000 | 2,335 |
| 2011 | 558,619,000 | 2,335 |
| 2012 | 564,788,000 | 2,305 |
| 2013¹ | 535,546,000 | 2,226 |
| 2014 | 552,247,000 | 2,238 |
| 2015 | 552,787,000 | 2,224 |
| 2016 | 552,787,000 | 2,173 |
| 2017 | 552,787,000 | 2,011 |
| 2018 | 552,787,000 | 1,953 |
| 2019 | 557,533,000 | 1,911 |

Source: Occupational Safety and Health Administration.

¹The FY 2013 funding levels reflect budget cuts mandated by the sequester.

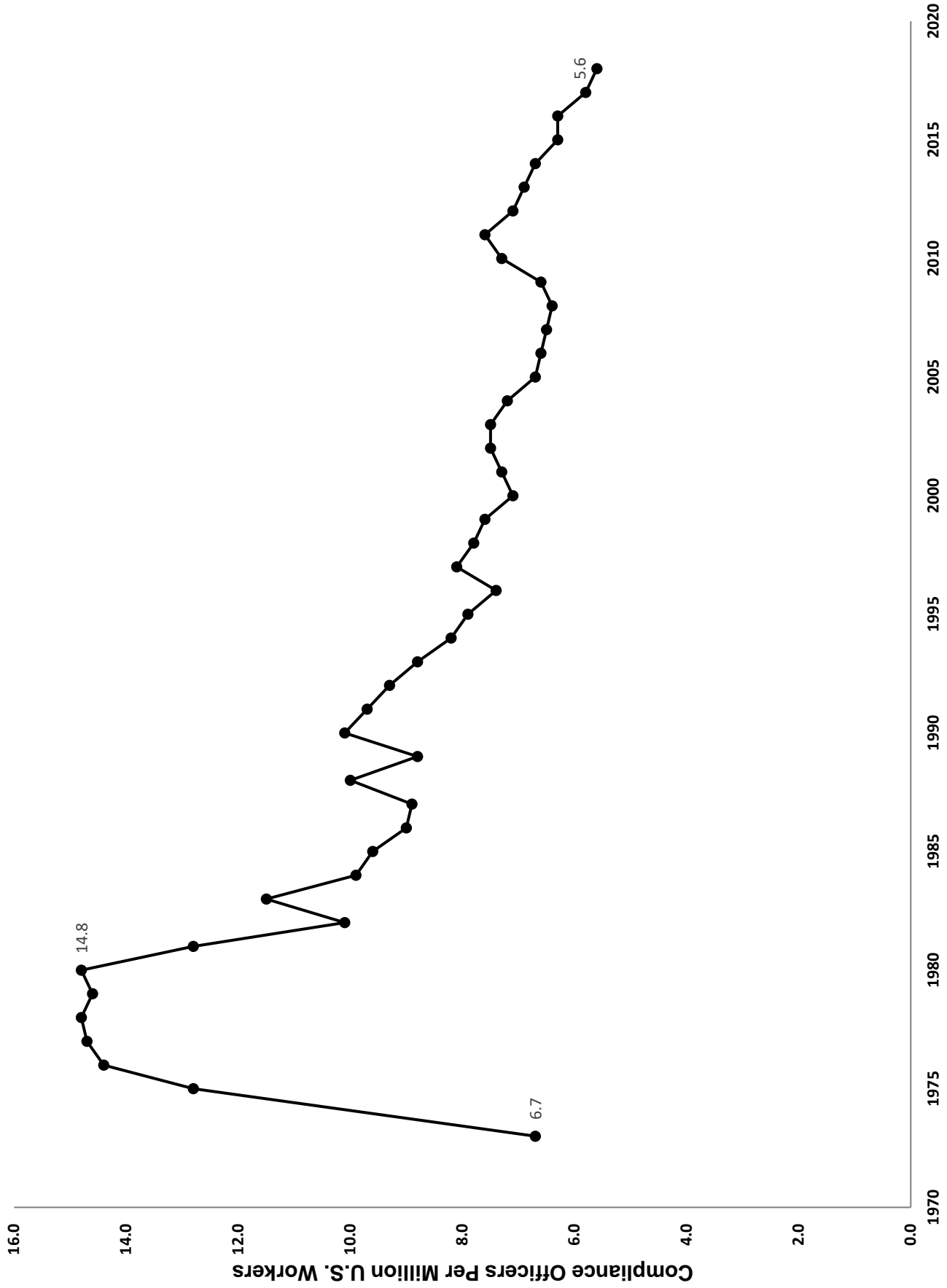
Federal OSHA Safety and Health Compliance Staffing, 1975–2018

| Year | Total Number of Federal OSHA Compliance Officers ¹ | Employment (000) ² | OSHA Compliance Officers Per Million Workers |
|------|---|-------------------------------|--|
| 1975 | 1,102 | 85,846 | 12.8 |
| 1976 | 1,281 | 88,752 | 14.4 |
| 1977 | 1,353 | 92,017 | 14.7 |
| 1978 | 1,422 | 96,048 | 14.8 |
| 1979 | 1,441 | 98,824 | 14.6 |
| 1980 | 1,469 | 99,302 | 14.8 |
| 1981 | 1,287 | 100,397 | 12.8 |
| 1982 | 1,003 | 99,526 | 10.1 |
| 1983 | 1,160 | 100,834 | 11.5 |
| 1984 | 1,040 | 105,005 | 9.9 |
| 1985 | 1,027 | 107,150 | 9.6 |
| 1986 | 975 | 109,597 | 9.0 |
| 1987 | 999 | 112,440 | 8.9 |
| 1988 | 1,153 | 114,968 | 10.0 |
| 1989 | 1,038 | 117,342 | 8.8 |
| 1990 | 1,203 | 118,793 | 10.1 |
| 1991 | 1,137 | 117,718 | 9.7 |
| 1992 | 1,106 | 118,492 | 9.3 |
| 1993 | 1,055 | 120,259 | 8.8 |
| 1994 | 1,006 | 123,060 | 8.2 |
| 1995 | 986 | 124,900 | 7.9 |
| 1996 | 932 | 126,708 | 7.4 |
| 1997 | 1,049 | 129,558 | 8.1 |
| 1998 | 1,029 | 131,463 | 7.8 |
| 1999 | 1,013 | 133,488 | 7.6 |
| 2000 | 972 | 136,891 | 7.1 |
| 2001 | 1,001 | 136,933 | 7.3 |
| 2002 | 1,017 | 136,485 | 7.5 |
| 2003 | 1,038 | 137,736 | 7.5 |
| 2004 | 1,006 | 139,252 | 7.2 |
| 2005 | 956 | 141,730 | 6.7 |
| 2006 | 948 | 144,427 | 6.6 |
| 2007 | 948 | 146,047 | 6.5 |
| 2008 | 936 | 145,362 | 6.4 |
| 2009 | 929 | 139,877 | 6.6 |
| 2010 | 1,016 | 139,064 | 7.3 |
| 2011 | 1,059 | 139,869 | 7.6 |
| 2012 | 1,006 | 142,469 | 7.1 |
| 2013 | 994 | 143,929 | 6.9 |
| 2014 | 986 | 146,305 | 6.7 |
| 2015 | 943 | 148,834 | 6.3 |
| 2016 | 952 | 151,436 | 6.3 |
| 2017 | 896 | 153,337 | 5.8 |
| 2018 | 875 | 155,761 | 5.6 |

¹Compliance officers for 1973 to 1989 from Twentieth Century OSHA Enforcement Data, A Review and Explanation of the Major Trends, U.S. Department of Labor, 2002; Compliance officers for 1990 to 2018 from OSHA Directorate of Enforcement Programs. Compliance officer totals include safety and industrial hygiene CSHOs and supervisory safety and industrial hygiene CSHOs.

²Employment is an annual average of employed civilians, 16 years of age and older, from the Current Population Survey (CPS), Bureau of Labor Statistics.

Federal OSHA Compliance Officers per Million U.S. Workers, 1974–2018¹



Source: Employment data from Current Population Survey, Bureau of Labor Statistics.

¹Compliance officers from U.S. Department of Labor, OSHA Directorate of Enforcement Programs, includes CSHOs and their supervisors.

**Job Safety and Health Appropriations
FY 2011–2020**

| CATEGORY | FY 2011 | FY 2012 | FY 2013 ³ | FY 2014 | FY 2015 | FY 2016 | FY 2017 | FY 2018 | FY 2019 Request | FY 2019 | FY 2020 Request |
|--|----------------------|---------|----------------------|----------------------|---------|---------|---------|---------|-----------------|---------|----------------------|
| OSHA (in thousands of dollars) | | | | | | | | | | | |
| TOTAL | 558,619 | 564,788 | 535,246 | 552,247 | 552,787 | 552,787 | 552,787 | 552,787 | 549,033 | 557,787 | 557,533 |
| Safety and Health Standards | 20,288 | 19,962 | 18,918 | 20,000 | 20,000 | 20,000 | 18,000 | 18,000 | 17,878 | 18,000 | 18,000 |
| Federal Enforcement | 208,146 | 207,753 | 207,928 | 207,785 | 208,000 | 208,000 | 208,000 | 208,000 | 212,735 | 209,000 | 212,780 |
| Whistleblower Protection | 14,806 | 15,873 | 15,043 | 17,000 | 17,500 | 17,500 | 17,500 | 17,500 | 17,381 | 17,500 | 18,624 |
| State Enforcement | 104,393 | 104,196 | 98,746 | 100,000 | 100,850 | 100,850 | 100,850 | 100,850 | 100,165 | 102,350 | 102,350 |
| Technical Support | 25,868 | 25,820 | 24,344 | 24,344 | 24,469 | 24,469 | 24,469 | 24,469 | 23,766 | 24,469 | 24,469 |
| Federal Compliance Assistance | 73,383 | 76,355 | 61,444 | 69,433 | 68,433 | 68,433 | 70,981 | 70,981 | 75,619 | 73,481 | 73,914 |
| State Compliance Assistance | 54,688 | 57,890 | 54,862 | 57,775 | 57,775 | 57,775 | 59,500 | 59,500 | 59,096 | 59,500 | 59,500 |
| Training Grants | 10,729 | 10,709 | 10,149 | 10,687 | 10,537 | 10,537 | 10,537 | 10,537 | 0 | 10,537 | 0 |
| Safety and Health Statistics | 34,805 | 34,739 | 32,922 | 34,250 | 34,250 | 34,250 | 32,900 | 32,900 | 32,677 | 32,900 | 38,400 |
| Executive Administration | 11,513 | 11,491 | 10,890 | 10,973 | 10,973 | 10,973 | 10,050 | 10,050 | 9,716 | 10,050 | 9,496 |
| MSHA (in thousands of dollars) | | | | | | | | | | | |
| TOTAL | 361,844 ² | 372,524 | 353,768 | 375,887 | 375,887 | 375,887 | 373,816 | 373,816 | 375,906 | 373,816 | 376,043 |
| Coal Enforcement | 160,639 | 164,500 | 158,713 | 167,859 | 167,859 | 167,859 | 160,000 | 160,000 | 156,136 | 160,000 | 0 |
| Metal/Nonmetal Enforcement | 87,644 | 89,063 | 86,121 | 91,697 | 91,697 | 91,697 | 94,500 | 94,500 | 96,975 | 94,500 | 0 |
| Mine Safety and Health Enforcement | 4,352 | | | | | | | | | | 252,640 ⁵ |
| Standards Development | 6,221 | 4,765 | 4,547 | 5,416 | 5,416 | 5,416 | 4,500 | 4,500 | 5,345 | 4,500 | 5,382 |
| Assessments | 38,148 | 7,103 | 7,036 | 6,976 | 6,976 | 6,976 | 6,627 | 6,627 | 7,394 | 6,627 | 7,445 |
| Education Policy and Development | 31,031 | 38,325 | 31,898 | 36,320 | 36,320 | 36,320 | 39,320 | 39,320 | 38,297 | 39,320 | 38,559 |
| Technical Support | 15,906 | 33,613 | 32,050 | 33,791 | 33,791 | 33,791 | 35,041 | 35,041 | 33,848 | 35,041 | 34,079 |
| Program Administration | 18,173 | 16,998 | 15,974 | 15,838 | 15,838 | 15,838 | 15,838 | 15,838 | 15,958 | 15,838 | 16,355 |
| Program Evaluation and Information Resources | | 18,157 | 17,429 | 17,990 | 17,990 | 17,990 | 17,990 | 17,990 | 21,953 | 17,990 | 21,583 |
| NIOSH (in thousands of dollars) | | | | | | | | | | | |
| TOTAL ¹ | 302,171 | 292,588 | 292,588 | 332,363 ⁴ | 334,863 | 339,121 | 335,200 | 335,200 | 200,000 | 336,300 | 190,000 |

Sources: Budget of the U.S. Government, FY 2011–FY 2012, and U.S. Department of Labor Congressional Budget Justification, FY 2011–FY 2020.

¹Does not include \$55 million in mandatory funding for the Energy Employees Occupational Injury Compensation Program or mandatory funding for the 9/11 Health Program.

²Includes \$6.5 million for addressing the backlog of contested cases, of which up to \$3 million may be transferred to the DOL's Office of Solicitor.

³The FY 2013 funding levels reflect the budget cuts mandated by the budget sequester.

⁴In FY 2014 and subsequent years, administrative costs previously allocated to the CDC budget were transferred to the NIOSH budget.

⁵In the FY 2020 proposed budget, President Trump proposed to combine the MSHA Coal Enforcement and Metal/Nonmetal Enforcement programs into one Mine Safety and Health Enforcement program.

**Funding for OSHA Worker Safety Training Programs vs.
Employer Compliance Assistance Programs, FY 2003–2020
(\$ in thousands)**

| Fiscal Year | Worker Safety and Health Training | Employer Compliance Assistance (Federal and State) |
|------------------------------|--|---|
| FY 2003 Enacted | \$11,175 | \$115,300 |
| FY 2004 Request | \$4,000 | \$120,000 |
| FY 2004 Enacted | \$11,100 | \$120,000 |
| FY 2004 Rescission | \$10,500 | \$119,200 |
| FY 2005 Request | \$4,000 | \$125,200 |
| FY 2005 Enacted | \$10,500 | \$124,200 |
| FY 2006 Request | \$0 | \$124,200 |
| FY 2006 Enacted | \$10,100 | \$125,900 |
| FY 2007 Request | \$0 | \$129,900 |
| FY 2007 Enacted | \$10,100 | \$126,000 |
| FY 2008 Request | \$0 | \$134,100 |
| FY 2008 Enacted | \$9,900 | \$123,800 |
| FY 2009 Request | \$0 | \$131,100 |
| FY 2009 Enacted | \$10,000 | \$127,200 |
| FY 2010 Request | \$10,000 | \$128,175 |
| FY 2010 Enacted | \$10,750 | \$128,200 |
| FY 2011 Request | \$11,000 | \$126,100 |
| FY 2011 Enacted | \$10,729 | \$128,200 |
| FY 2012 Request | \$12,000 | \$129,800 |
| FY 2012 Enacted | \$10,700 | \$134,200 |
| FY 2013 Request | \$10,700 | \$131,000 |
| FY 2013 Enacted ¹ | \$10,150 | \$116,300 |
| FY 2014 Request | \$10,700 | \$133,200 |
| FY 2014 Enacted | \$10,700 | \$127,200 |
| FY 2015 Request | \$10,700 | \$128,200 |
| FY 2015 Enacted | \$10,500 | \$126,200 |
| FY 2016 Request | \$10,700 | \$130,800 |
| FY 2016 Enacted | \$10,537 | \$126,558 |
| FY 2017 Request | \$10,537 | \$132,558 |
| FY 2017 Enacted | \$10,537 | \$130,481 |
| FY 2018 Request | \$0 | \$130,016 |
| FY 2018 Enacted | \$10,537 | \$130,481 |
| FY 2019 Request | \$0 | \$134,715 |
| FY 2019 Enacted | \$10,537 | \$133,481 |
| FY 2020 Request | \$0 | \$133,414 |

Source: Department of Labor, Occupational Safety and Health Administration, Annual Congressional Budget Justification.

¹FY 2013 funding levels reflect the budget cuts mandated by the sequester.

**Number of U.S. Establishments and Employees Covered
Per OSHA Full-Time Equivalent (FTE) Staff, 1980–2017**

| Fiscal Year | Annual Average Employment¹ | Annual Average Establishments¹ | OSHA Full-Time Equivalent (FTE) Staff² | Employees Covered Per OSHA FTE | Establishments Covered Per OSHA FTE |
|--------------------|--|--|--|---------------------------------------|--|
| 1980 | 73,395,500 | 4,544,800 | 2,951 | 24,871 | 1,540 |
| 1985 | 96,314,200 | 5,305,400 | 2,239 | 43,017 | 2,370 |
| 1990 | 108,657,200 | 6,076,400 | 2,425 | 44,807 | 2,506 |
| 1995 | 115,487,841 | 7,040,677 | 2,196 | 52,590 | 3,206 |
| 2000 | 129,877,063 | 7,879,116 | 2,259 | 57,493 | 3,488 |
| 2005 | 131,571,623 | 8,571,144 | 2,208 | 59,589 | 3,882 |
| 2010 | 127,820,442 | 8,993,109 | 2,335 | 54,741 | 3,851 |
| 2011 | 129,411,095 | 9,072,796 | 2,335 | 55,422 | 3,886 |
| 2012 | 131,696,378 | 9,121,868 | 2,305 | 57,135 | 3,957 |
| 2013 | 133,968,434 | 9,205,888 | 2,226 | 60,183 | 4,136 |
| 2014 | 136,613,609 | 9,361,354 | 2,238 | 61,043 | 4,183 |
| 2015 | 139,491,699 | 9,522,775 | 2,224 | 62,721 | 4,282 |
| 2016 | 141,870,066 | 9,716,618 | 2,173 | 65,288 | 4,472 |
| 2017 | 143,859,855 | 9,835,104 | 2,011 | 71,536 | 4,891 |

¹U.S. Department of Labor, Bureau of Labor Statistics, Employment and Wages, Annual Averages (Total Covered).

²U.S. Department of Labor, Occupational Safety and Health Administration.

8.0 Million State and Local Employees Lacked OSHA Coverage in 2017



¹Massachusetts passed a law providing OSHA coverage to the state's public employees (effective Sept. 1, 2018), but does not have a federal OSHA-approved state plan with enforcement resources.

★ In 2017, 39,752 public employees in the District of Columbia lacked OSHA coverage.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Employment and Wages: Annual Average.

Prepared by the AFL-CIO

Profiles of Mine Safety and Health 2010–2018

Coal Mines

| | 2010 | 2011 | 2012 | 2013 | 2014 ³ | 2015 ³ | 2016 ³ | 2017 ³ | 2018 ³ |
|--|---------|---------|---------|---------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Number of coal mines | 1,944 | 1,972 | 1,871 | 1,704 | 1,633 | 1,459 | 1,289 | 1,216 | 1,191 |
| Number of miners | 135,500 | 143,940 | 138,338 | 123,446 | 116,318 | 102,871 | 81,875 | 83,053 | 82,694 |
| Fatalities | 48 | 20 | 20 | 20 | 16 | 12 | 8 | 15 | 12 |
| Fatal injury rate¹ | 0.0384 | 0.0148 | 0.0159 | 0.0176 | 0.0149 | 0.0131 | 0.0115 | 0.0200 | 0.0156 |
| All injury rate¹ | 3.43 | 3.43 | 3.21 | 3.15 | 3.15 | 2.93 | 2.91 | 3.18 | 2.85 |
| States with coal mining | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 25 | 26 |
| Coal production (millions of tons) | 1,086 | 1,095 | 1,018 | 984 | 1,000 | 897 | 728 | 770 | 756 |
| Citations and orders issued² | 96,814 | 93,057 | 78,836 | 63,166 | 62,452 | 49,322 | 40,508 | 46,764 | 46,854 |

Metal and Nonmetal Mines

| | 2010 | 2011 | 2012 | 2013 | 2014 ³ | 2015 ³ | 2016 ³ | 2017 ³ | 2018 ³ |
|--|---------|---------|---------|---------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Number of metal/nonmetal mines | 12,339 | 12,206 | 12,227 | 12,101 | 11,990 | 11,862 | 11,815 | 11,875 | 11,845 |
| Number of miners | 225,676 | 238,428 | 250,664 | 251,433 | 250,576 | 247,269 | 237,203 | 238,187 | 248,747 |
| Fatalities | 23 | 16 | 16 | 22 | 30 | 17 | 17 | 13 | 15 |
| Fatal injury rate¹ | 0.0129 | 0.0083 | 0.0079 | 0.0108 | 0.0147 | 0.0084 | 0.0088 | 0.0066 | 0.0073 |
| All injury rate¹ | 2.37 | 2.28 | 2.20 | 2.14 | 2.11 | 2.03 | 1.94 | 1.78 | 1.73 |
| States with M/NM mining | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Citations and orders issued² | 74,095 | 63,280 | 60,074 | 54,952 | 58,599 | 58,374 | 56,519 | 57,852 | 50,945 |

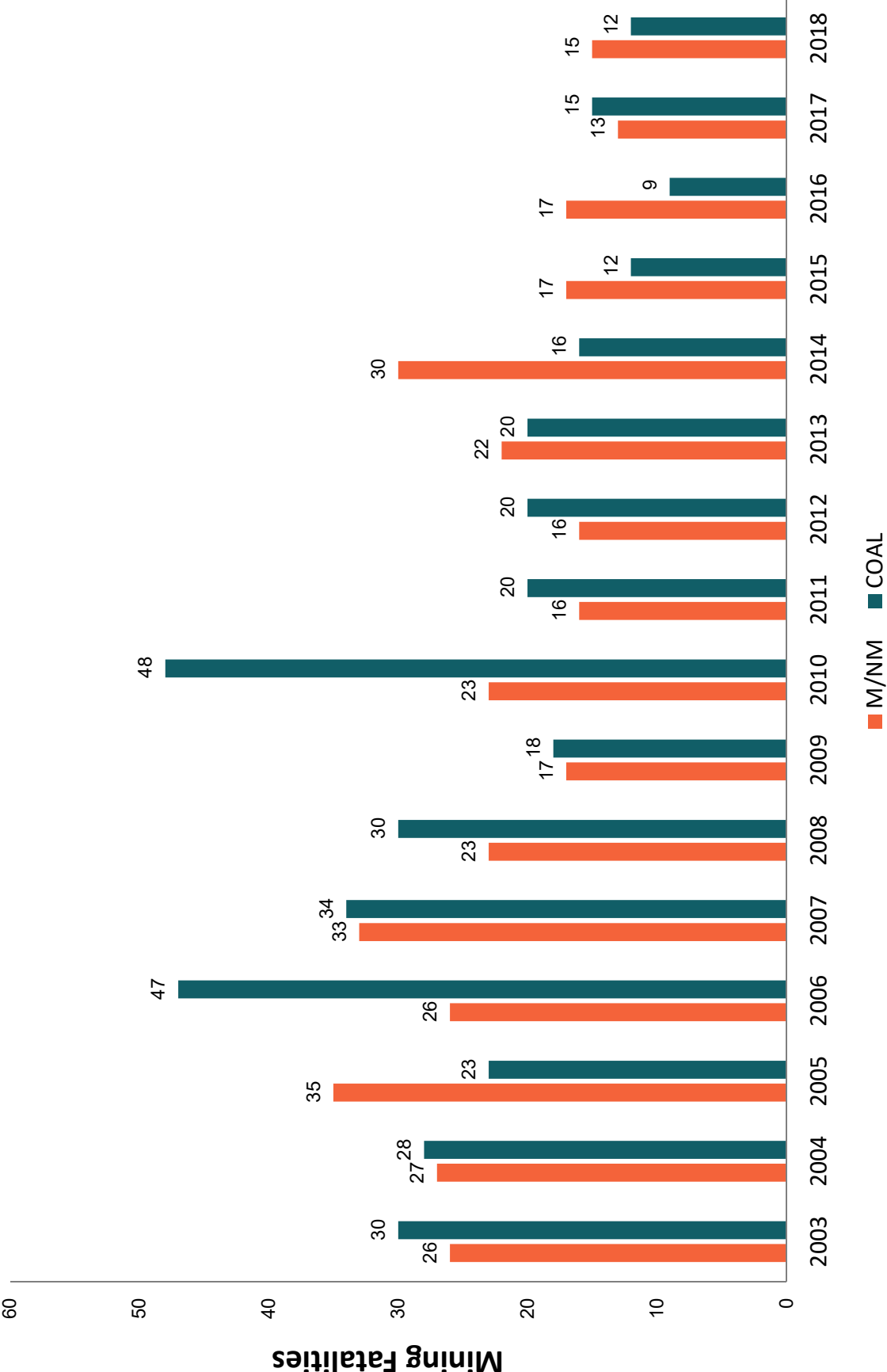
Source: U.S. Department of Labor, Mine Safety and Health Administration.

¹All reported injuries per 200,000 employee hours.

²Citations and orders are those not vacated.

³Includes operator and contractor employees.

Coal and Metal/Nonmetal Mining Fatality Comparisons, 2003–2018



Source: U.S. Department of Labor, Mine Safety and Health Administration.

Coal Mining Fatalities by State, 2002–2018

| State | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Alabama | 1 | 1 | 2 | 4 | 2 | 3 | 2 | 3 | 2 | | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| Alaska | | | | | | | | | | | | | | | | | |
| Arizona | | | | | 1 | | | | | 1 | | | | | | | |
| Arkansas | | | | | | | | | | | | | | | | | |
| California | | | | | | | | | | | | | | | | | |
| Colorado | | | | | | 1 | | | | 1 | 1 | | | | | 1 | |
| Connecticut | | | | | | | | | | | | | | | | | |
| Delaware | | | | | | | | | | | | | | | | | |
| Florida | | | | | | | | | | | | | | | | | |
| Georgia | | | | | | | | | | | | | | | | | |
| Hawaii | | | | | | | | | | | | | | | | | |
| Idaho | | | | | | | | | | | | | | | | | |
| Illinois | | 3 | | | | | 1 | 2 | 2 | | 1 | 4 | 1 | 3 | 1 | | |
| Indiana | 1 | 1 | 1 | | | 3 | 1 | | 1 | | 1 | 1 | 1 | | | | 2 |
| Iowa | | | | | | | | | | | | | | | | | |
| Kansas | | | | | | | | | | | | | | | | | |
| Kentucky | 10 | 10 | 6 | 8 | 16 | 2 | 8 | 6 | 7 | 8 | 4 | 2 | 2 | 2 | 2 | 2 | 1 |
| Louisiana | | | | | | | | 1 | | | | | | | | | |
| Maine | | | | | | | | | | | | | | | | | |
| Maryland | | | | | 1 | 2 | | | | | | | | | | | |
| Massachusetts | | | | | | | | | | | | | | | | | |
| Michigan | | | | | | | | | | | | | | | | | |

Coal Mining Fatalities by State, 2002–2018

| State | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Minnesota | | | | | | | | | | | | | | | | | |
| Mississippi | | | | | | | | | | | | | | | | | |
| Missouri | | | | | | | | | | | | | | | | | |
| Montana | | | | 1 | | | | | 1 | | | 1 | | | | 1 | |
| Nebraska | | | | | | | | | | | | | | | | | |
| Nevada | | | | | | | | | | | | | | | | | |
| New Hampshire | | | | | | | | | | | | | | | | | |
| New Jersey | | | | | | | | | | | | | | | | | |
| New Mexico | 1 | | | | | 1 | | | | | | | | | | | |
| New York | | | | | | | | | | | | | | | | | |
| North Carolina | | | | | | | | | | | | | | | | | |
| North Dakota | | | | | | | | | | | | | | | | | |
| Ohio | | | | 1 | | | | | | 2 | 1 | 1 | | | | | |
| Oklahoma | | | | 1 | | 1 | | | | | | | | | | | |
| Oregon | | | | | | | | | | | | | | | | | |
| Pennsylvania | 3 | 1 | 1 | 4 | 1 | 1 | 5 | 1 | | | | 2 | | 3 | 1 | 1 | 3 |
| Puerto Rico | | | | | | | | | | | | | | | | | |
| Rhode Island | | | | | | | | | | | | | | | | | |
| South Carolina | | | | | | | | | | | | | | | | | |
| South Dakota | | | | | | | | | | | | | | | | | |
| Tennessee | | | 1 | | | | | 1 | | | 1 | | | | | | |
| Texas | | | | | | 1 | 1 | | | | | | | | | | |

Coal Mining Fatalities by State, 2002–2018

| State | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Utah | 1 | | 2 | | 1 | 10 | | | | | | 1 | 1 | | | | |
| Vermont | | | | | | | | | | | | | | | | | |
| Virginia | 4 | 3 | 3 | | 1 | | 2 | 1 | | 1 | 1 | | 2 | 1 | | | |
| Washington | | | | | | | | | | | | | | | | | 1 |
| West Virginia | 6 | 9 | 12 | 4 | 23 | 9 | 9 | 3 | 35 | 6 | 7 | 6 | 5 | 2 | 4 | 8 | 4 |
| Wisconsin | | | | | | | | | | | | | | | | | |
| Wyoming | 1 | 2 | | 1 | | | 1 | | | 1 | | 2 | 2 | | | 1 | |
| Total | 28 | 30 | 28 | 23 | 47 | 34 | 30 | 18 | 48 | 20 | 20 | 20 | 16 | 12 | 8 | 15 | 12 |

Source: U.S. Department of Labor, Mine Safety and Health Administration.

Metal and Nonmetal Mining Fatalities by State, 2002–2018

| State | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Alabama | | 2 | | 1 | | | | | 1 | | 1 | | | | | 1 | 1 |
| Alaska | | | | | 2 | 3 | | | | 2 | | | | | | | |
| Arizona | 4 | | | 2 | 1 | 2 | 2 | 1 | 2 | | 1 | 1 | 1 | | 1 | 1 | |
| Arkansas | 1 | 1 | | | | 2 | | 1 | | | | | | | 1 | | |
| California | | 2 | | | 2 | 3 | 2 | 1 | 2 | | 1 | 2 | | 1 | | 1 | |
| Colorado | 2 | 1 | | 2 | | | | | | | | 2 | | | | | |
| Connecticut | | | | | | | | | | | | | | | | | |
| Delaware | | | | | | | | | | | | | | | | | |
| Florida | 4 | | | 2 | 1 | | | | 1 | 1 | 2 | | 1 | 1 | 1 | | |
| Georgia | 1 | 1 | 1 | | | | 1 | 1 | 1 | | | 2 | | 1 | 1 | 1 | |
| Hawaii | | | | | | | | | | | | | | | | | |
| Idaho | 1 | | | | | | | | 1 | 2 | | | 1 | | | 1 | |
| Illinois | 2 | 1 | | | | | | | | | | | 1 | | | 1 | |
| Indiana | 1 | | 2 | | 1 | 1 | | | | | | | 1 | | | | |
| Iowa | | | 1 | | | | 2 | 1 | | 1 | | | 1 | 1 | 1 | 1 | 1 |
| Kansas | | 1 | | | | | 1 | | 2 | | | 1 | 1 | | | | |
| Kentucky | | 1 | | 3 | 1 | | 1 | 2 | | | 1 | 4 | 1 | | 1 | | |
| Louisiana | | | | | 1 | 1 | | 1 | | | | 1 | 1 | | | | |
| Maine | | | | | | | | | | | | | | | | | |
| Maryland | 1 | | | | | | | | 1 | | 1 | | | | | | |
| Massachusetts | | | | | 1 | | | | | | | | | 1 | | | |
| Michigan | 1 | 1 | 2 | 1 | 3 | | | | | | | | | | 1 | | 1 |
| Minnesota | | | | 1 | 3 | 2 | | | 1 | 2 | | | | | | | |

Metal and Nonmetal Mining Fatalities by State, 2002–2018

| State | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Mississippi | | | | 2 | | | | | | | | | | | 2 | | |
| Missouri | 3 | | 2 | 1 | | 2 | 2 | 2 | | | | 2 | 2 | 2 | | | |
| Montana | | | | 1 | | 1 | | | | 1 | 2 | | 1 | | | | 1 |
| Nebraska | 1 | | | 1 | | 1 | | | | | 1 | | | 1 | | | |
| Nevada | 2 | 2 | 4 | 3 | | 2 | 3 | 1 | 2 | 1 | 1 | 2 | 2 | 3 | 1 | 2 | 2 |
| New Hampshire | | 1 | | | | 1 | | | | | | | | 1 | | | |
| New Jersey | | 1 | | 1 | | | | | | | | | | | | | |
| New Mexico | 2 | 1 | 1 | 2 | | | 1 | 1 | | | | 1 | | | | 1 | 1 |
| New York | 1 | | 1 | | | | 1 | | 1 | 1 | 3 | | 2 | | | | 1 |
| North Carolina | | 1 | 1 | | | 1 | | | | 1 | 1 | | | | 1 | 1 | |
| North Dakota | | | | | | | | | | | | | | 1 | | | 1 |
| Ohio | | 2 | | 2 | | 2 | | | | 1 | | | 1 | 1 | | | |
| Oklahoma | | | 2 | | | | | | 3 | | 1 | | | | | | |
| Oregon | 2 | 1 | 2 | 1 | 1 | 1 | | | | | | | | | | 1 | |
| Pennsylvania | | | 2 | 1 | 2 | | 2 | 1 | | 1 | | 1 | 2 | 1 | | | 1 |
| Puerto Rico | 1 | | | | 1 | 1 | | 1 | | | | | | | | | |
| Rhode Island | | | | | | | | | | | | | | | | | |
| South Carolina | 1 | 2 | 1 | 1 | | | | | | | | | 2 | | | | |
| South Dakota | 1 | | | | | | | | | | | | | | | | |
| Tennessee | 3 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | | | 1 | | | | | 1 |
| Texas | 4 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 2 | | | 1 | 5 | 1 | 2 | 1 | 3 |
| Utah | | | | | 1 | | 1 | | 1 | 1 | | | 2 | | 1 | | 1 |
| Vermont | | | | | | | | | | | | | | | | | |

Metal and Nonmetal Mining Fatalities by State, 2002–2018

| State | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Virginia | | | | 1 | 1 | 1 | | | | | | | 2 | 1 | 1 | | 1 |
| Washington | 1 | 1 | | 1 | 1 | 1 | | | 1 | 1 | | | | | 1 | | |
| West Virginia | | | | | | 1 | | | | | | | | | | | |
| Wisconsin | | | | 1 | | | 1 | | | | | | | | | | |
| Wyoming | 2 | | 1 | 1 | | 1 | | | | | | | | | | | |
| Total | 42 | 26 | 27 | 35 | 26 | 33 | 23 | 17 | 23 | 16 | 16 | 22 | 30 | 17 | 17 | 13 | 15 |

Source: U.S. Department of Labor, Mine Safety and Health Administration.

MSHA Impact Inspections, 2018¹

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEPT | OCT | NOV | DEC | Year Totals |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-------------|
| Coal | | | | | | | | | | | | | |
| Number of Impact Inspections | 9 | 6 | 1 | 4 | 1 | 1 | 1 | 3 | 0 | 1 | 3 | 2 | 32 |
| Total # Citations Issued | 76 | 60 | 9 | 77 | 34 | 22 | 29 | 29 | 0 | 0 | 50 | 39 | 425 |
| # Orders ² Issued | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 1 | 2 | 11 |
| # S&S ³ Citations Issued | 13 | 21 | 4 | 9 | 5 | 10 | 3 | 6 | 0 | 0 | 11 | 14 | 96 |
| % S&S Citations | 17% | 35% | 44% | 12% | 15% | 45% | 10% | 21% | 0% | 0% | 22% | 36% | 564 |
| Metal/Nonmetal | | | | | | | | | | | | | |
| Number of Impact Inspections | 2 | 5 | 3 | 2 | 2 | 1 | 3 | 0 | 6 | 6 | 2 | 5 | 37 |
| Total # Citations Issued | 15 | 52 | 18 | 23 | 23 | 5 | 26 | 0 | 21 | 155 | 10 | 36 | 384 |
| # Orders ² Issued | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 9 |
| # S&S ³ Citations Issued | 2 | 10 | 10 | 17 | 16 | 2 | 9 | 0 | 6 | 21 | 5 | 10 | 108 |
| % S&S Citations | 13% | 19% | 55% | 74% | 70% | 40% | 35% | 0% | 29% | 14% | 50% | 28% | 538 |

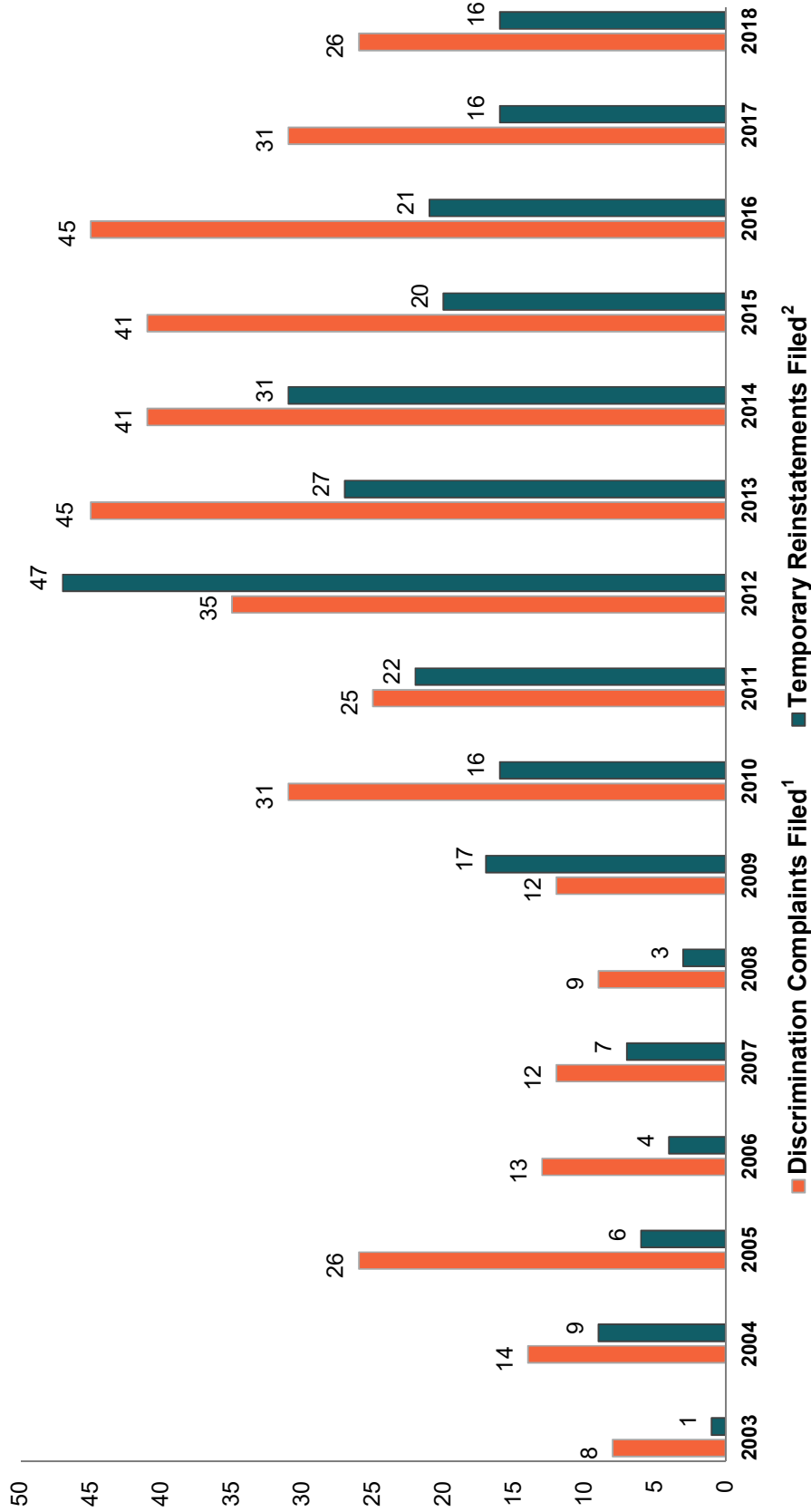
Source: Mine Safety and Health Administration.

¹ Impact inspections were initiated after the April 2010 explosion at the Upper Big Branch Mine. The inspections are conducted at mines with a poor compliance history with MSHA standards, high numbers of injuries, illnesses or fatalities, and other indicators of unsafe mines.

² MSHA can issue orders to mine operators that require them to withdraw miners from affected areas of the mine for failure to abate violations, for "unwarrantable failure" (reckless disregard, intentional misconduct) to correct significant and substantial violations, and where imminent danger exists. Miners remain withdrawn from the affected area until the violation(s) are abated.

³ A Significant and Substantial (S&S) citation is a violation of a mandatory MSHA standard in which the hazard resulting from the violation has a reasonable likelihood of resulting in an injury of a reasonably serious nature.

MSHA Discrimination Complaints and Temporary Reinstatements Filed by the Department of Labor on Behalf of Miners, 2003–2018



Source: Mine Safety and Health Administration.

¹Under Section 105(c)(2) of the Federal Mine Safety and Health Act, any miner who thinks he or she has been discharged, interfered with or discriminated against for exercising his or her rights under the act may file a discrimination complaint.

²If the Mine Safety and Health Administration finds that a miner's discrimination complaint is "not frivolously brought," MSHA will ask the Federal Mine Safety and Health Review Commission to order immediate reinstatement of the miner while the discrimination case is pending.

STATE COMPARISONS

Comparison of Workplace Fatality and Injury Rates by State, 2017

| State | Fatality Rate ¹ | Injury and Illness Rates ^{2,4} | State | Fatality Rate ¹ | Injury and Illness Rates ^{2,4} | State | Fatality Rate ¹ | Injury and Illness Rates ² | State | Fatality Rate ¹ | Injury and Illness Rates ^{2,4} |
|-----------------------|----------------------------|---|--------------------------|----------------------------|---|----------------------------|----------------------------|---------------------------------------|---------------------------|----------------------------|---|
| Alabama | 4.3 | 2.5 | Indiana | 4.5 | 3.3 | Nebraska | 3.6 | 3.0 | South Carolina | 4.2 | 2.5 |
| Alaska | 10.2 | 3.8 | Iowa | 4.7 | 3.5 | Nevada | 2.4 | 3.7 | South Dakota ⁴ | 7.3 | N/A |
| Arizona | 3.0 | 2.9 | Kansas | 5.2 | 3.0 | New Hampshire ⁴ | 1.6 | N/A | Tennessee | 4.4 | 2.9 |
| Arkansas | 6.1 | 2.5 | Kentucky | 3.8 | 3.1 | New Jersey | 1.6 | 2.6 | Texas | 4.3 | 2.2 |
| California | 2.2 | 3.2 | Louisiana | 6.3 | 1.9 | New Mexico | 4.7 | 2.7 | Utah | 2.9 | 3.0 |
| Colorado ⁴ | 2.8 | N/A | Maine | 2.7 | 4.8 | New York | 3.5 | 2.2 | Vermont | 7.0 | 4.6 |
| Connecticut | 1.9 | 3.2 | Maryland | 3.0 | 2.6 | North Carolina | 3.9 | 2.3 | Virginia | 2.9 | 2.4 |
| Delaware | 2.4 | 2.3 | Massachusetts | 3.2 | 2.7 | North Dakota ⁴ | 10.1 | N/A | Washington | 2.5 | 4.0 |
| Florida ⁴ | 3.3 | N/A | Michigan | 3.4 | 3.1 | Ohio | 3.3 | 2.6 | West Virginia | 7.4 | 2.9 |
| Georgia | 4.1 | 2.6 | Minnesota | 3.5 | 3.2 | Oklahoma ³ | 5.5 | N/A | Wisconsin | 3.5 | 3.6 |
| Hawaii | 2.2 | 3.8 | Mississippi ⁴ | 6.2 | N/A | Oregon | 3.2 | 3.8 | Wyoming | 7.7 | 3.5 |
| Idaho ⁴ | 4.8 | N/A | Missouri | 4.4 | 2.6 | Pennsylvania | 3.0 | 3.1 | National Average | 3.5 | 2.8 |
| Illinois | 2.8 | 2.6 | Montana | 6.9 | 4.3 | Rhode Island ⁴ | 1.6 | N/A | | | |

Orange: States with a fatality rate above the national average and reported injury and illness rate below the national average.

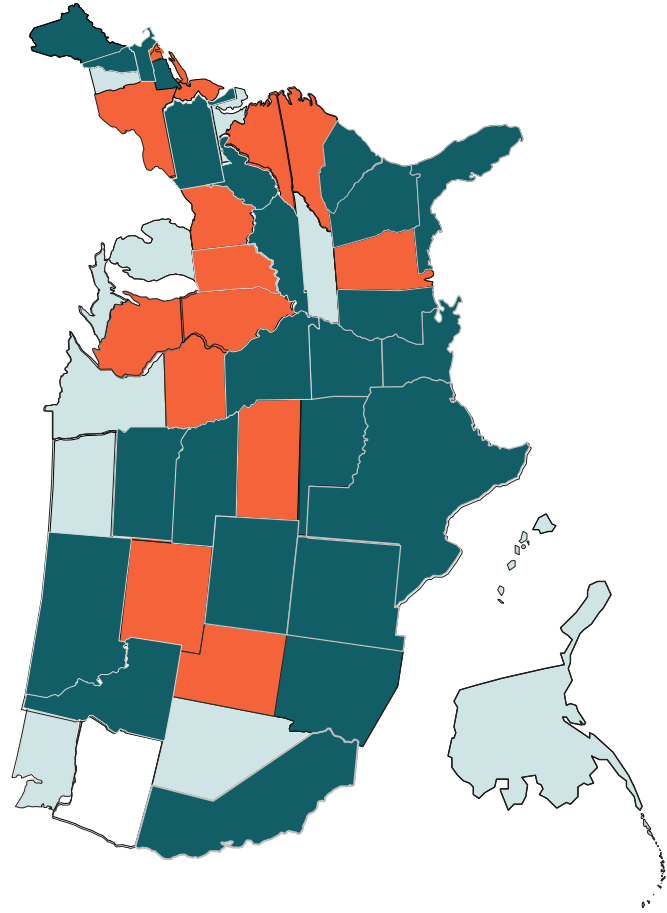
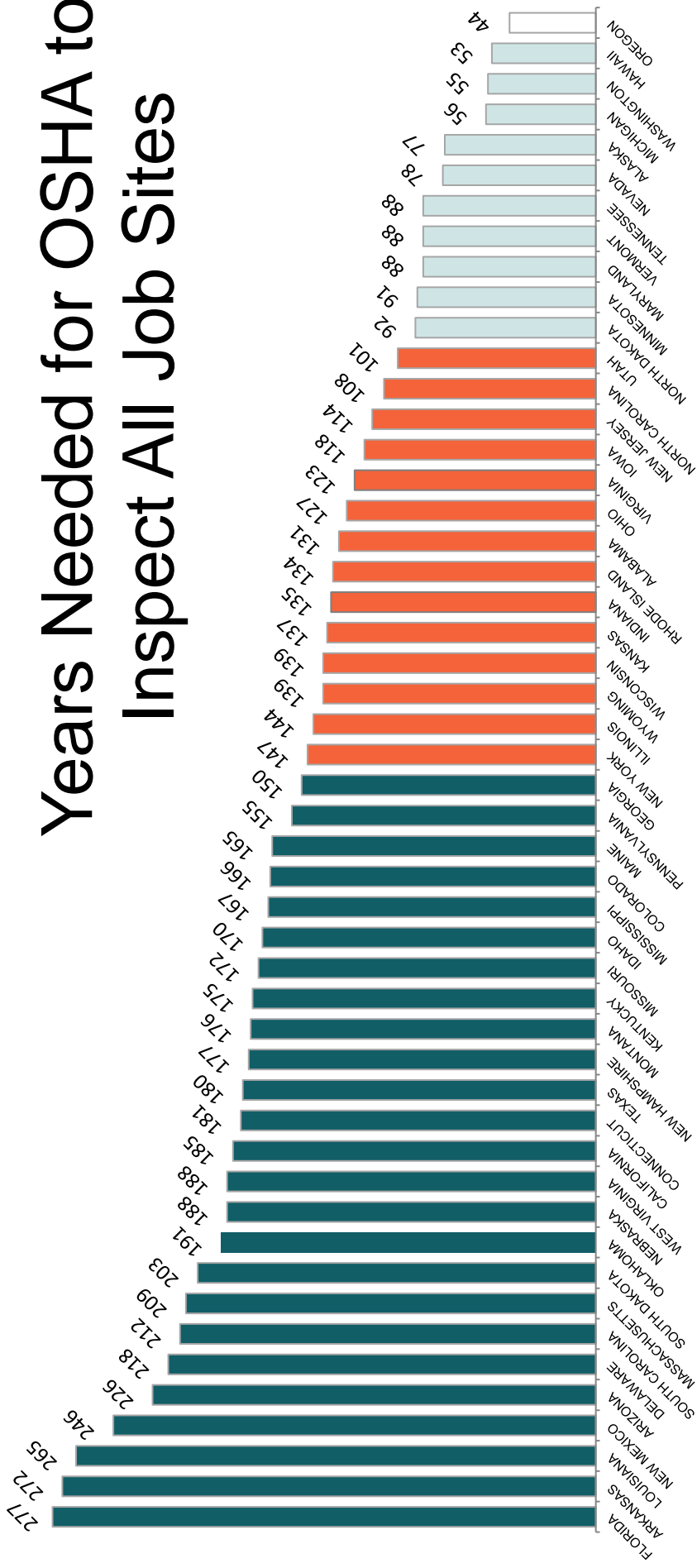
¹ The state fatality rates are calculated by the Bureau of Labor Statistics deaths per 100,000 workers.

² Bureau of Labor Statistics, rate of total cases per 100 workers. Number and rate are for private sector only and the total includes Guam, Puerto Rico and the Virgin Islands.

³ A detailed comparison of the individual injury and illness reports from various reporting systems found that only one in three workplace injuries and illnesses was reported on the OSHA Log and captured by the Bureau of Labor Statistics survey. This study did not address the number of injuries and illnesses that are not reported to any reporting system in the first place. Thus, this study represents a conservative estimate of under-reporting of the true toll of injuries and illnesses. For more details on the study, see the paper by Rosenman, et al., "How Much Work-Related Injury and Illness is Missed by the Current National Surveillance System?," Journal of Occupational and Environmental Medicine, 48(4): 357-366, April 2006.

⁴ Not all states participate in the Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses. Participation is voluntary, even in states where the fatality rate may be high.

Years Needed for OSHA to Inspect All Job Sites



- 0-49 years (1 state)
- 50-99 years (10 states)
- 100-149 years (14 states)
- 150 years or more (25 states)

Sources: U.S. Department of Labor, Bureau of Labor Statistics, "Employment and Wages Annual Averages 2017," and Occupational Safety and Health Administration OIS data on worksite inspections, FY 2018.

Number of OSHA Inspectors by State Compared with ILO Benchmark Number of Labor Inspectors¹

| State | Number of Employees ¹ | Actual Number of OSHA Inspectors ^{2,3} | | Number of Labor Inspectors Needed to Meet ILO Benchmark ⁴ | Ratio of OSHA Inspectors/Number of Employees |
|---------------|----------------------------------|---|-------|--|--|
| | | Federal | State | | |
| Alabama | 1,936,819 | 24 | 0 | 194 | 1/80,701 |
| Alaska | 322,136 | 3 | 9 | 32 | 1/26,845 |
| Arizona | 2,747,638 | 2 | 14 | 275 | 1/171,727 |
| Arkansas | 1,200,542 | 7 | 0 | 120 | 1/171,506 |
| California | 17,019,702 | 6 | 228 | 1,702 | 1/72,734 |
| Colorado | 2,609,770 | 27 | 0 | 261 | 1/96,658 |
| Connecticut | 1,669,616 | 13 | 4 | 167 | 1/98,213 |
| Delaware | 441,873 | 4 | 0 | 44 | 1/110,468 |
| Florida | 8,494,623 | 58 | 0 | 849 | 1/146,459 |
| Georgia | 4,346,453 | 40 | 0 | 435 | 1/108,661 |
| Hawaii | 654,185 | 3 | 15 | 65 | 1/36,344 |
| Idaho | 706,820 | 8 | 0 | 71 | 1/88,353 |
| Illinois | 5,934,549 | 52 | 5 | 593 | 1/104,115 |
| Indiana | 3,018,177 | 2 | 36 | 302 | 1/79,426 |
| Iowa | 1,540,435 | 2 | 20 | 154 | 1/70,020 |
| Kansas | 1,371,633 | 9 | 0 | 137 | 1/152,404 |
| Kentucky | 1,874,455 | 0 | 34 | 187 | 1/55,131 |
| Louisiana | 1,907,721 | 10 | 0 | 191 | 1/190,772 |
| Maine | 609,271 | 8 | 3 | 61 | 1/55,388 |
| Maryland | 2,653,569 | 6 | 49 | 265 | 1/48,247 |
| Massachusetts | 3,543,383 | 32 | 0 | 354 | 1/110,731 |

Number of OSHA Inspectors by State Compared with ILO Benchmark Number of Labor Inspectors¹

| State | Number of Employees ¹ | Actual Number of OSHA Inspectors ^{2,3} | | Number of Labor Inspectors Needed to Meet ILO Benchmark ⁴ | Ratio of OSHA Inspectors/Number of Employees |
|----------------|----------------------------------|---|-------|--|--|
| | | Federal | State | | |
| Michigan | 4,294,711 | 2 | 58 | 429 | 1/71,579 |
| Minnesota | 2,856,105 | 0 | 39 | 286 | 1/73,233 |
| Mississippi | 1,128,498 | 11 | 0 | 113 | 1/102,591 |
| Missouri | 2,781,242 | 24 | 0 | 278 | 1/115,885 |
| Montana | 459,431 | 6 | 0 | 46 | 1/76,572 |
| Nebraska | 972,764 | 10 | 0 | 97 | 1/97,276 |
| Nevada | 1,326,151 | 1 | 35 | 133 | 1/36,838 |
| New Hampshire | 653,487 | 8 | 0 | 65 | 1/81,686 |
| New Jersey | 4,006,799 | 40 | 11 | 401 | 1/78,565 |
| New Mexico | 810,516 | 0 | 8 | 81 | 1/101,315 |
| New York | 9,276,868 | 63 | 32 | 928 | 1/97,651 |
| North Carolina | 4,330,606 | 2 | 95 | 433 | 1/44,645 |
| North Dakota | 414,038 | 7 | 0 | 41 | 1/59,148 |
| Ohio | 5,364,626 | 54 | 0 | 536 | 1/99,345 |
| Oklahoma | 1,581,198 | 13 | 0 | 158 | 1/121,631 |
| Oregon | 1,883,407 | 3 | 76 | 188 | 1/23,841 |
| Pennsylvania | 5,799,123 | 49 | 0 | 580 | 1/118,349 |
| Rhode Island | 477,362 | 6 | 0 | 48 | 1/79,560 |
| South Carolina | 2,035,341 | 1 | 28 | 204 | 1/70,184 |
| South Dakota | 422,489 | 3 | 0 | 42 | 1/140,830 |
| Tennessee | 2,930,932 | 3 | 34 | 293 | 1/79,214 |
| Texas | 12,014,802 | 85 | 0 | 1,201 | 1/141,351 |

Number of OSHA Inspectors by State Compared with ILO Benchmark Number of Labor Inspectors¹

| State | Number of Employees ¹ | Actual Number of OSHA Inspectors ^{2,3} | | Number of Labor Inspectors Needed to Meet ILO Benchmark ⁴ | Ratio of OSHA Inspectors/Number of Employees |
|---------------------------|----------------------------------|---|--------------------------|--|--|
| | | Federal | State | | |
| Utah | 1,430,588 | 0 | 18 | 143 | 1/79,477 |
| Vermont | 309,442 | 0 | 7 | 31 | 1/44,206 |
| Virginia | 3,838,368 | 3 | 44 | 384 | 1/81,667 |
| Washington | 3,290,209 | 3 | 116 | 329 | 1/27,649 |
| West Virginia | 683,807 | 8 | 0 | 68 | 1/85,476 |
| Wisconsin | 2,850,145 | 28 | 0 | 285 | 1/101,791 |
| Wyoming | 269,586 | 0 | 6 | 27 | 1/44,931 |
| Totals⁵ | 143,859,855 | | 1,815⁶ | 14,386 | 1/79,262 |

¹U.S. Department of Labor, Bureau of Labor Statistics, Employment and Wages.

²Includes only safety and industrial hygiene Compliance Safety and Health Officers who conduct workplace inspections and does not include supervisory CSHOs. Federal CSHOs provided by OSHA's Directorate of Enforcement Programs, CSHO Count By State as of December 2018. State plan CSHOs provided by OSHA's Directorate of Cooperative and State Programs and includes "on board" safety and health CSHOs from the FY 2019 State Plan Grant Applications as of July 1, 2018. The number of "on board" CSHOs may not accurately reflect the true number of CSHOs actually hired and conducting enforcement inspections due to possible budgetary issues in any particular state.

³Under the OSHAct, states may operate their own OSHA programs. Twenty-one states and one territory have state OSHA programs covering both public- and private-sector workers. Connecticut, Illinois, Maine, New Jersey and New York have state programs covering state and local employees only.

⁴The ILO benchmark for labor inspectors is one inspector per 10,000 workers in industrial market economies. International Labor Organization, International Labor Office. Strategies and Practice for Labor Inspection. G.B.297/ESP/3. Geneva, November 2006.

⁵Totals include employees and inspectors from the District of Columbia, Puerto Rico and the Virgin Islands.

⁶Total number of inspectors includes 752 federal OSHA inspectors and 1,062 state OSHA inspectors, including one inspector in Guam, two in the Virgin Islands and 39 in Puerto Rico.

Profile of Workplace Safety and Health in the United States

| State | Fatalities 2017 ¹ | | | Injuries/Illnesses 2017 ² | | Penalties FY 2018 ³ | | Inspectors ^{4,5} | | Years to Inspect Each Workplace Once ⁶ | State or Federal Program |
|-------------|------------------------------|------|-------------------|--------------------------------------|------|--------------------------------|-------------------|---------------------------|-------|---|--------------------------|
| | Number | Rate | Rank ⁷ | Number | Rate | Average (\$) | Rank ⁸ | Federal | State | | |
| Alabama | 83 | 4.3 | 31 | 32,900 | 2.5 | 3,598 | 18 | 24 | 0 | 131 | Federal |
| Alaska | 33 | 10.2 | 50 | 7,500 | 3.8 | 1,676 | 41 | 3 | 9 | 77 | State |
| Arizona | 90 | 3.0 | 15 | 56,300 | 2.9 | 1,140 | 47 | 2 | 14 | 226 | State |
| Arkansas | 76 | 6.1 | 41 | 22,000 | 2.5 | 3,872 | 5 | 7 | 0 | 272 | Federal |
| California | 376 | 2.2 | 5 | 362,600 | 3.2 | 7,699 | 1 | 6 | 228 | 185 | State |
| Colorado | 77 | 2.8 | 11 | N/A | N/A | 2,775 | 32 | 27 | 0 | 166 | Federal |
| Connecticut | 35 | 1.9 | 4 | 37,600 | 3.2 | 3,108 | 27 | 13 | 4 | 181 | Federal ⁵ |
| Delaware | 10 | 2.4 | 7 | 6,900 | 2.3 | 3,996 | 3 | 4 | 0 | 218 | Federal |
| Florida | 299 | 3.3 | 20 | N/A | N/A | 3,653 | 11 | 58 | 0 | 277 | Federal |
| Georgia | 194 | 4.1 | 29 | 78,200 | 2.6 | 3,571 | 20 | 40 | 0 | 150 | Federal |
| Hawaii | 20 | 2.2 | 5 | 15,700 | 3.8 | 3,069 | 29 | 3 | 15 | 53 | State |
| Idaho | 37 | 4.8 | 38 | N/A | N/A | 3,423 | 24 | 8 | 0 | 170 | Federal |
| Illinois | 163 | 2.8 | 11 | 108,200 | 2.6 | 3,615 | 16 | 52 | 5 | 144 | Federal ⁵ |
| Indiana | 138 | 4.5 | 35 | 71,500 | 3.3 | 1,278 | 44 | 2 | 36 | 135 | State |
| Iowa | 72 | 4.7 | 36 | 38,100 | 3.5 | 2,646 | 33 | 2 | 20 | 118 | State |
| Kansas | 72 | 5.2 | 39 | 28,200 | 3.0 | 3,600 | 17 | 9 | 0 | 137 | Federal |

Profile of Workplace Safety and Health in the United States

| State | Fatalities 2017 ¹ | | | Injuries/Illnesses 2017 ² | | Penalties FY 2018 ³ | | Inspectors ^{4,5} | | Years to Inspect Each Workplace Once ⁶ | State or Federal Program |
|----------------------|------------------------------|------|-------------------|--------------------------------------|------|--------------------------------|-------------------|---------------------------|-------|---|--------------------------|
| | Number | Rate | Rank ⁷ | Number | Rate | Average (\$) | Rank ⁸ | Federal | State | | |
| Kentucky | 70 | 3.8 | 27 | 41,200 | 3.1 | 3,542 | 21 | 0 | 34 | 175 | State |
| Louisiana | 117 | 6.3 | 43 | 25,400 | 1.9 | 3,811 | 8 | 10 | 0 | 265 | Federal |
| Maine | 18 | 2.7 | 10 | 19,100 | 4.8 | 3,440 | 22 | 8 | 3 | 165 | Federal ⁵ |
| Maryland | 87 | 3.0 | 15 | 46,600 | 2.6 | 681 | 49 | 6 | 49 | 88 | State |
| Massachusetts | 108 | 3.2 | 18 | 65,100 | 2.7 | 3,597 | 19 | 32 | 0 | 209 | Federal |
| Michigan | 153 | 3.4 | 22 | 93,900 | 3.1 | 1,179 | 46 | 2 | 58 | 56 | State |
| Minnesota | 101 | 3.5 | 23 | 63,300 | 3.2 | 987 | 48 | 0 | 39 | 91 | State |
| Mississippi | 90 | 6.2 | 42 | N/A | N/A | 3,246 | 26 | 11 | 0 | 167 | Federal |
| Missouri | 125 | 4.4 | 33 | 50,600 | 2.6 | 3,630 | 15 | 24 | 0 | 172 | Federal |
| Montana | 32 | 6.9 | 44 | 12,700 | 4.3 | 2,082 | 36 | 6 | 0 | 176 | Federal |
| Nebraska | 35 | 3.6 | 26 | 20,500 | 3.0 | 3,650 | 12 | 10 | 0 | 188 | Federal |
| Nevada | 32 | 2.4 | 7 | 35,700 | 3.7 | 1,980 | 37 | 1 | 35 | 78 | State |
| New Hampshire | 11 | 1.6 | 1 | N/A | N/A | 3,849 | 6 | 8 | 0 | 177 | Federal |
| New Jersey | 69 | 1.6 | 1 | 71,700 | 2.6 | 3,818 | 7 | 40 | 11 | 114 | Federal ⁵ |
| New Mexico | 44 | 4.7 | 36 | 14,300 | 2.7 | 1,924 | 39 | 0 | 8 | 246 | State |
| New York | 313 | 3.5 | 23 | 138,600 | 2.2 | 3,723 | 9 | 63 | 32 | 147 | Federal ⁵ |

Profile of Workplace Safety and Health in the United States

| State | Fatalities 2017 ¹ | | | Injuries/Illnesses 2017 ² | | Penalties FY 2018 ³ | | Inspectors ^{4,5} | | Years to Inspect Each Workplace Once ⁶ | State or Federal Program |
|----------------|------------------------------|------|-------------------|--------------------------------------|------|--------------------------------|-------------------|---------------------------|-------|---|--------------------------|
| | Number | Rate | Rank ⁷ | Number | Rate | Average (\$) | Rank ⁸ | Federal | State | | |
| North Carolina | 183 | 3.9 | 28 | 70,700 | 2.3 | 1,772 | 40 | 2 | 95 | 108 | State |
| North Dakota | 38 | 10.1 | 49 | N/A | N/A | 3,683 | 10 | 7 | 0 | 92 | Federal |
| Ohio | 174 | 3.3 | 20 | 101,500 | 2.6 | 4,129 | 2 | 54 | 0 | 127 | Federal |
| Oklahoma | 91 | 5.5 | 40 | N/A | N/A | 3,070 | 28 | 13 | 0 | 191 | Federal |
| Oregon | 60 | 3.2 | 18 | 46,500 | 3.8 | 587 | 50 | 3 | 76 | 44 | State |
| Pennsylvania | 172 | 3.0 | 15 | 132,500 | 3.1 | 3,634 | 14 | 49 | 0 | 155 | Federal |
| Rhode Island | 8 | 1.6 | 1 | N/A | N/A | 3,008 | 30 | 6 | 0 | 134 | Federal |
| South Carolina | 88 | 4.2 | 30 | 34,800 | 2.5 | 1,217 | 45 | 1 | 28 | 212 | State |
| South Dakota | 30 | 7.3 | 46 | N/A | N/A | 2,958 | 31 | 3 | 0 | 203 | Federal |
| Tennessee | 128 | 4.4 | 33 | 60,100 | 2.9 | 1,472 | 42 | 3 | 34 | 88 | State |
| Texas | 534 | 4.3 | 31 | 183,400 | 2.2 | 3,423 | 23 | 85 | 0 | 180 | Federal |
| Utah | 43 | 2.9 | 13 | 29,600 | 3.0 | 1,315 | 43 | 0 | 18 | 101 | State |
| Vermont | 22 | 7.0 | 45 | 9,100 | 4.6 | 2,627 | 34 | 0 | 7 | 88 | State |
| Virginia | 118 | 2.9 | 13 | 60,200 | 2.4 | 2,357 | 35 | 3 | 44 | 123 | State |
| Washington | 84 | 2.5 | 9 | 86,600 | 4.0 | 1,940 | 38 | 3 | 116 | 55 | State |
| West Virginia | 51 | 7.4 | 47 | 13,100 | 2.9 | 3,640 | 13 | 8 | 0 | 188 | Federal |

Profile of Workplace Safety and Health in the United States

| State | Fatalities 2017 ¹ | | Injuries/Illnesses 2017 ² | | Penalties FY 2018 ³ | | Inspectors ^{4,5} | | Years to Inspect Each Workplace Once ⁶ | State or Federal Program | |
|-----------------------------------|------------------------------|------------|--------------------------------------|--------------------|--------------------------------|--------------------------|---------------------------|---------------------------|---|--------------------------|---------|
| | Number | Rate | Rank ⁷ | Number | Rate | Average (\$) | Rank ⁸ | Federal | | | State |
| Wisconsin | 106 | 3.5 | 23 | 71,900 | 3.6 | 3,910 | 4 | 28 | 0 | 139 | Federal |
| Wyoming | 20 | 7.7 | 48 | 6,000 | 3.5 | 3,340 | 25 | 0 | 6 | 139 | State |
| Total or National Average: | 5,147 | 3.5 | | 2.8 Million | 2.8 | 2,729⁹ | | 1,815¹⁰ | | 134¹¹ | |

¹The state fatality rates are calculated by BLS as deaths per 100,000 workers.

²Bureau of Labor Statistics, rate of total cases per 100 workers. Number and rate are for private sector only and include Guam, Puerto Rico and the Virgin Islands.

³U.S. Department of Labor, OSHA, OIS Inspection Reports, FY 2018. Penalties shown are average current penalty per serious citation for conditions creating a substantial probability of death or serious physical harm to workers. For Connecticut, Illinois, Maine, New Jersey and New York, averages are based only on federal penalty data.

⁴Includes only safety and industrial hygiene Compliance Safety and Health Officers (CSHOs) who conduct workplace inspections and does not include supervisory CSHOs. Federal CSHOs provided by OSHA's Directorate of Enforcement Programs, CSHO Count By State as of December 2018. State plan CSHOs provided by OSHA's Directorate of Cooperative and State Programs and includes "on board" safety and health CSHOs from the FY 2019 State Plan Grant Applications as of July 1, 2018. The number of "on board" CSHOs may not accurately reflect the true number of CSHOs actually hired and conducting enforcement inspections due to possible budgetary issues in any particular state.

⁵Under the OSHAct, states may operate their own OSHA programs. Twenty-one states and one territory have state OSHA programs covering both public- and private-sector workers. Connecticut, Illinois, Maine, New Jersey and New York have state programs covering state and local employees only.

⁶Years to inspect is based on the number of establishments in 2017 and the number of OSHA inspections in FY 2018. The number of establishments in OSHA's jurisdiction includes private-sector establishments (except mining) and federal establishments. For any state with a plan that covers public-sector employees, state and local establishments also are included.

⁷Rankings are based on best-to-worst fatality rate (1–best, 50–worst).

⁸Rankings are based on highest-to-lowest average penalty (\$) per serious violation (1–highest, 50–lowest).

⁹National average is the per citation average for federal OSHA serious penalties and state OSHA plan states' serious penalties combined. Federal serious penalties average \$3,580 per citation; state plan OSHA states average \$1,985 per citation.

¹⁰Total number of inspectors includes 752 federal OSHA inspectors and 1,063 state OSHA inspectors, including one inspector in Guam, two in the Virgin Islands and 39 in Puerto Rico.

¹¹Frequency of all covered establishments for all states combined. Average inspection frequency of covered establishments for federal OSHA states is once every 165 years; inspection frequency of covered establishments for state OSHA plan states is once every 108 years. States with their own OSHA program for public employees only (Connecticut, Illinois, Maine, New Jersey and New York) are considered federal states for these averages. Federal, state and national average include the District of Columbia, Puerto Rico and the Virgin Islands.

State-by-State OSHA Fatality Investigations, FY 2018

| State | Number of OSHA Fatality Investigations Conducted | Total Penalties (\$) | Average Total Penalty Per Investigation (\$) | Median Initial Penalty ¹ (\$) | Median Current Penalty ¹ (\$) | State or Federal Program |
|---------------|--|----------------------|--|--|--|--------------------------|
| Alabama | 21 | 432,718 | 20,606 | 17,125 | 12,934 | Federal |
| Alaska | 4 | 26,400 | 6,600 | 13,200 | 13,200 | State |
| Arizona | 18 | 38,515 | 2,140 | 7,200 | 4,825 | State |
| Arkansas | 18 | 179,463 | 9,970 | 9,728 | 7,500 | Federal |
| California | 186 | 3,475,655 | 18,686 | 17,760 | 17,535 | State |
| Colorado | 23 | 638,573 | 27,764 | 9,163 | 6,652 | Federal |
| Connecticut | 12 | 101,960 | 8,497 | 9,701 | 6,849 | Federal ² |
| Delaware | 3 | 142,773 | 47,591 | 51,736 | 51,736 | Federal |
| Florida | 92 | 1,448,406 | 15,744 | 12,934 | 9,097 | Federal |
| Georgia | 42 | 648,719 | 15,446 | 12,934 | 12,934 | Federal |
| Hawaii | 9 | 214,286 | 23,810 | 25,350 | 24,630 | State |
| Idaho | 12 | 96,264 | 8,022 | 8,407 | 7,880 | Federal |
| Illinois | 39 | 327,675 | 8,402 | 4,200 | 2,600 | Federal ² |
| Indiana | 48 | 343,157 | 7,149 | 7,000 | 7,000 | State |
| Iowa | 24 | 257,010 | 10,709 | 6,791 | 6,164 | State |
| Kansas | 13 | 654,522 | 50,348 | 11,640 | 9,472 | Federal |
| Kentucky | 20 | 358,000 | 17,900 | 17,800 | 17,800 | State |
| Louisiana | 22 | 335,636 | 15,256 | 8,038 | 6,182 | Federal |
| Maine | 4 | 32,335 | 8,084 | 9,701 | 8,407 | Federal ² |
| Maryland | 15 | 315,710 | 21,047 | 4,325 | 4,450 | State |
| Massachusetts | 20 | 591,236 | 29,562 | 12,640 | 8,892 | Federal |
| Michigan | 44 | 171,050 | 3,888 | 7,000 | 7,000 | State |
| Minnesota | 31 | 1,110,300 | 35,816 | 26,650 | 26,000 | State |
| Mississippi | 11 | 158,237 | 14,385 | 18,375 | 18,375 | Federal |

State-by-State OSHA Fatality Investigations, FY 2018

| State | Number of OSHA Fatality Investigations Conducted | Total Penalties (\$) | Average Total Penalty Per Investigation (\$) | Median Initial Penalty ¹ (\$) | Median Current Penalty ¹ (\$) | State or Federal Program |
|----------------|--|----------------------|--|--|--|--------------------------|
| Missouri | 24 | 402,054 | 16,752 | 12,288 | 9,377 | Federal |
| Montana | 3 | 8,028 | 2,676 | 3,880 | 2,328 | Federal |
| Nebraska | 15 | 190,180 | 12,679 | 9,239 | 7,000 | Federal |
| Nevada | 9 | 77,800 | 8,644 | 8,000 | 8,000 | State |
| New Hampshire | 7 | 124,351 | 17,764 | 16,814 | 15,521 | Federal |
| New Jersey | 25 | 260,947 | 10,438 | 8,316 | 7,760 | Federal ² |
| New Mexico | 14 | 33,033 | 2,359 | 3,625 | 3,050 | State |
| New York | 62 | 762,872 | 12,304 | 4,761 | 3,929 | Federal ² |
| North Carolina | 73 | 399,270 | 5,469 | 7,000 | 7,000 | State |
| North Dakota | 4 | 65,714 | 16,429 | 12,934 | 11,467 | Federal |
| Ohio | 61 | 1,507,060 | 24,706 | 12,934 | 9,054 | Federal |
| Oklahoma | 34 | 485,168 | 14,270 | 13,494 | 9,054 | Federal |
| Oregon | 32 | 72,660 | 2,271 | 1,075 | 1,005 | State |
| Pennsylvania | 53 | 1,019,613 | 19,238 | 14,967 | 12,934 | Federal |
| Rhode Island | 3 | 0 | 0 | 0 | 0 | Federal |
| South Carolina | 31 | 62,774 | 2,025 | 4,250 | 2,375 | State |
| South Dakota | 6 | 33,960 | 5,660 | 8,149 | 5,600 | Federal |
| Tennessee | 42 | 407,765 | 9,709 | 9,500 | 8,175 | State |
| Texas | 167 | 2,688,654 | 16,100 | 9,959 | 7,300 | Federal |
| Utah | 17 | 66,600 | 3,918 | 3,000 | 3,000 | State |
| Vermont | 5 | 62,927 | 12,585 | 20,992 | 4,500 | State |
| Virginia | 53 | 466,740 | 8,806 | 20,016 | 13,823 | State |
| Washington | 24 | 188,450 | 7,852 | 7,450 | 7,450 | State |
| West Virginia | 21 | 270,790 | 12,895 | 12,934 | 12,934 | Federal |

State-by-State OSHA Fatality Investigations, FY 2018

| State | Number of OSHA Fatality Investigations Conducted | Total Penalties (\$) | Average Total Penalty Per Investigation (\$) | Median Initial Penalty ¹ (\$) | Median Current Penalty ¹ (\$) | State or Federal Program |
|--|--|----------------------|--|--|--|--------------------------|
| Wisconsin | 26 | 312,346 | 12,013 | 11,505 | 7,525 | Federal |
| Wyoming | 6 | 44,946 | 7,491 | 34,539 | 22,473 | State |
| National Median State Plan States | | | | 3,500 | 2,700 | |
| National Median Federal States | | | | 10,348 | 7,761 | |
| Total or National Average³ | 1,605 | 22,841,325 | 14,231 | | | |

Source: OSHA OIS Fatality Inspection Reports, issued March 26, 2019.

¹National median penalties include investigations conducted in American Samoa, Puerto Rico, the District of Columbia, Virgin Islands, Northern Mariana Islands and Guam.

²Under the OSH Act, states may operate their own OSHA programs. Connecticut, Illinois, Maine, New Jersey and New York have state programs covering state and local employees only; for these five states, only federal data are listed. Twenty-one states and one territory have state OSHA programs covering both public- and private-sector workers; for these 21 states, only state data are listed.

³National fatality investigations for all federal OSHA and state OSHA plan states combined. Federal OSHA average is \$16,734 per fatality investigation; state plan OSHA average is \$11,247 per fatality investigation. Total investigations, total penalties and national average penalty per investigation includes four investigations in the District of Columbia, 12 in Puerto Rico, zero in the Virgin Islands, zero in the Northern Mariana Islands, one in American Samoa and two in Guam.

Workplace Safety and Health Statistics by State, 2012–2017

| | Fatality Rates ¹ | | | | | | Injury/Illness Rates ² | | | | | | Average Penalties(\$) ³ | | | | | |
|---------------|-----------------------------|------|------|------|------|------|-----------------------------------|------|------|------|------|------|------------------------------------|-------|-------|-------|-------|-------|
| | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | FY13 | FY14 | FY15 | FY16 | FY17 | FY18 |
| | Alabama | 4.3 | 4.0 | 4.0 | 3.7 | 5.2 | 4.3 | 3.3 | 3.3 | 2.9 | 3.0 | 2.7 | 2.5 | 1,803 | 2,016 | 2,311 | 2,582 | 3,583 |
| Alaska | 8.9 | 7.9 | 7.8 | 4.1 | 10.6 | 10.2 | 4.6 | 4.3 | 3.9 | 3.9 | 3.6 | 3.8 | 889 | 823 | 808 | 1,079 | 1,288 | 1,676 |
| Arizona | 2.3 | 3.5 | 3.1 | 2.4 | 2.6 | 3.0 | 3.2 | 3.3 | 3.0 | 2.9 | 2.9 | 2.9 | 891 | 935 | 960 | 1,002 | 1,083 | 1,140 |
| Arkansas | 5.4 | 5.6 | 5.7 | 5.8 | 5.3 | 6.1 | 3.2 | 3.0 | 2.6 | 2.6 | 2.4 | 2.5 | 2,569 | 2,329 | 2,221 | 2,480 | 3,254 | 3,872 |
| California | 2.3 | 2.4 | 2.0 | 2.2 | 2.2 | 2.2 | 3.5 | 3.5 | 3.4 | 3.3 | 3.3 | 3.2 | 6,422 | 5,733 | 6,543 | 7,131 | 7,326 | 7,699 |
| Colorado | 3.5 | 2.7 | 3.3 | 2.9 | 3.0 | 2.8 | N/A | N/A | N/A | N/A | N/A | N/A | 1,649 | 1,564 | 1,821 | 2,044 | 2,725 | 2,775 |
| Connecticut | 2.1 | 1.8 | 2.1 | 2.6 | 1.6 | 1.9 | 3.9 | 3.8 | 3.5 | 3.2 | 3.3 | 3.2 | 1,735 | 1,794 | 1,896 | 2,142 | 2,824 | 3,108 |
| Delaware | 3.1 | 2.6 | 2.8 | 1.9 | 2.6 | 2.4 | 2.8 | 2.7 | 2.6 | 2.6 | 2.6 | 2.3 | 2,406 | 1,985 | 2,745 | 2,878 | 4,701 | 3,996 |
| Florida | 2.7 | 2.8 | 2.7 | 3.1 | 3.6 | 3.3 | N/A | N/A | N/A | N/A | N/A | N/A | 1,821 | 2,181 | 2,365 | 2,451 | 3,681 | 3,653 |
| Georgia | 2.5 | 2.8 | 3.6 | 4.3 | 3.9 | 4.1 | 2.8 | 2.8 | 2.9 | 2.7 | 2.7 | 2.6 | 2,061 | 2,127 | 2,248 | 2,392 | 3,805 | 3,571 |
| Hawaii | 3.4 | 1.6 | 5.0 | 2.6 | 2.4 | 2.2 | 3.8 | 3.7 | 3.7 | 3.4 | 3.5 | 3.8 | 964 | 1,279 | 1,214 | 1,604 | 2,129 | 3,069 |
| Idaho | 2.7 | 4.3 | 4.7 | 4.8 | 4.1 | 4.8 | N/A | N/A | N/A | N/A | N/A | N/A | 1,449 | 1,639 | 1,973 | 2,485 | 3,202 | 3,423 |
| Illinois | 2.5 | 3.1 | 2.9 | 2.9 | 2.9 | 2.8 | 3.2 | 3.2 | 2.8 | 2.9 | 2.7 | 2.6 | 1,876 | 1,980 | 2,258 | 2,380 | 3,571 | 3,615 |
| Indiana | 4.2 | 4.4 | 4.4 | 3.9 | 4.5 | 4.5 | 3.9 | 3.6 | 3.8 | 3.7 | 3.4 | 3.3 | 1,054 | 957 | 782 | 1,000 | 1,235 | 1,278 |
| Iowa | 6.6 | 4.7 | 6.0 | 3.9 | 4.8 | 4.7 | 4.5 | 4.5 | 3.9 | 3.7 | 3.7 | 3.5 | 790 | 901 | 997 | 1,488 | 1,362 | 2,646 |
| Kansas | 5.7 | 4.2 | 5.5 | 4.4 | 5.2 | 5.2 | 3.6 | 3.5 | 3.4 | 3.0 | 3.3 | 3.0 | 1,971 | 2,017 | 2,055 | 2,144 | 3,016 | 3,600 |
| Kentucky | 4.9 | 4.7 | 4.5 | 5.5 | 5.0 | 3.8 | 4.1 | 4.0 | 3.7 | 3.5 | 3.2 | 3.1 | 3,254 | 2,828 | 2,607 | 3,295 | 3,333 | 3,542 |
| Louisiana | 6.4 | 6.3 | 6.3 | 5.8 | 5.0 | 6.3 | 2.3 | 2.2 | 2.0 | 1.9 | 1.9 | 1.9 | 1,765 | 2,201 | 2,334 | 2,847 | 3,811 | 3,811 |
| Maine | 3.2 | 3.1 | 2.9 | 2.5 | 2.4 | 2.7 | 5.6 | 5.3 | 5.3 | 4.8 | 4.7 | 4.8 | 2,083 | 2,013 | 2,025 | 2,508 | 4,303 | 3,440 |
| Maryland | 2.6 | 2.7 | 2.6 | 2.4 | 3.2 | 3.0 | 3.1 | 3.0 | 3.1 | 2.9 | 2.8 | 2.6 | 685 | 746 | 715 | 650 | 640 | 681 |
| Massachusetts | 1.4 | 1.8 | 1.7 | 2.1 | 3.3 | 3.2 | 3.1 | 2.9 | 2.7 | 2.6 | 2.6 | 2.7 | 1,929 | 2,104 | 2,092 | 2,484 | 3,752 | 3,597 |
| Michigan | 3.4 | 3.3 | 3.3 | 3.1 | 3.5 | 3.4 | 4.0 | 3.7 | 3.6 | 3.3 | 3.3 | 3.1 | 542 | 585 | 612 | 763 | 1,131 | 1,179 |
| Minnesota | 2.6 | 2.6 | 2.3 | 2.7 | 3.4 | 3.5 | 3.8 | 3.7 | 3.6 | 3.5 | 3.3 | 3.2 | 768 | 752 | 806 | 832 | 993 | 987 |

Workplace Safety and Health Statistics by State, 2012–2017

| | Fatality Rates ¹ | | | | | | Injury/Illness Rates ² | | | | | | Average Penalties(\$) ³ | | | | | |
|----------------|-----------------------------|------|------|------|------|------|-----------------------------------|------|------|------|------|-------|------------------------------------|-------|-------|-------|-------|-------|
| | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | FY13 | FY14 | FY15 | FY16 | FY17 | FY18 |
| | Mississippi | 5.5 | 6.2 | 7.1 | 6.8 | 6.3 | 6.2 | N/A | N/A | N/A | N/A | N/A | N/A | 1,515 | 1,726 | 2,054 | 2,440 | 3,306 |
| Missouri | 3.3 | 4.3 | 3.9 | 4.3 | 4.3 | 4.4 | 3.3 | 3.2 | 3.2 | 2.8 | 2.6 | 1,931 | 1,877 | 2,103 | 2,466 | 3,645 | 3,630 | |
| Montana | 7.3 | 5.8 | 4.9 | 7.5 | 7.9 | 6.9 | 5.0 | 4.7 | 4.5 | 4.2 | 4.3 | 1,983 | 1,938 | 1,751 | 1,803 | 2,149 | 2,082 | |
| Nebraska | 5.2 | 4.0 | 5.8 | 5.4 | 6.3 | 3.6 | 3.9 | 3.8 | 3.5 | 3.4 | 3.0 | 2,565 | 2,569 | 2,727 | 2,891 | 3,903 | 3,650 | |
| Nevada | 3.6 | 3.0 | 3.1 | 3.5 | 4.2 | 2.4 | 4.1 | 4.0 | 4.0 | 3.7 | 3.7 | 2,133 | 2,244 | 1,059 | 1,157 | 1,133 | 1,980 | |
| New Hampshire | 2.2 | 2.1 | 2.6 | 2.7 | 3.2 | 1.6 | N/A | N/A | N/A | N/A | N/A | 2,243 | 2,113 | 2,169 | 2,425 | 3,370 | 3,849 | |
| New Jersey | 2.4 | 2.6 | 2.1 | 2.3 | 2.4 | 1.6 | 3.1 | 2.9 | 2.9 | 2.6 | 2.6 | 2,151 | 2,176 | 2,441 | 2,533 | 4,205 | 3,818 | |
| New Mexico | 4.8 | 6.7 | 6.7 | 4.1 | 4.9 | 4.7 | 3.9 | 3.2 | 3.2 | 3.2 | 2.7 | 998 | 879 | 803 | 1,140 | 1,025 | 1,924 | |
| New York | 2.4 | 2.1 | 2.8 | 2.7 | 3.1 | 3.5 | 2.5 | 2.4 | 2.5 | 2.3 | 2.2 | 2,016 | 1,907 | 2,109 | 2,492 | 3,707 | 3,723 | |
| North Carolina | 3.5 | 2.5 | 3.1 | 3.4 | 3.7 | 3.9 | 2.9 | 2.7 | 2.7 | 2.5 | 2.3 | 996 | 1,250 | 1,091 | 1,582 | 1,594 | 1,772 | |
| North Dakota | 17.7 | 14.9 | 9.8 | 12.5 | 7.0 | 10.1 | N/A | N/A | N/A | N/A | N/A | 3,045 | 2,659 | 3,028 | 2,723 | 3,582 | 3,683 | |
| Ohio | 3.1 | 3.0 | 3.6 | 3.9 | 3.1 | 3.3 | 3.2 | 2.9 | 2.9 | 2.7 | 2.6 | 2,156 | 2,299 | 2,462 | 2,679 | 3,907 | 4,129 | |
| Oklahoma | 6.1 | 5.8 | 6.2 | 5.5 | 5.6 | 5.5 | 3.6 | N/A | N/A | N/A | N/A | 1,872 | 1,880 | 2,062 | 2,017 | 3,299 | 3,070 | |
| Oregon | 2.6 | 2.9 | 3.9 | 2.6 | 3.9 | 3.2 | 3.9 | 4.1 | 3.9 | 4.0 | 3.8 | 363 | 364 | 422 | 570 | 547 | 587 | |
| Pennsylvania | 3.4 | 3.2 | 3.1 | 3.0 | 2.8 | 3.0 | 3.9 | 3.9 | 3.7 | 3.3 | 3.1 | 1,916 | 1,796 | 2,075 | 2,484 | 3,454 | 3,634 | |
| Rhode Island | 1.7 | 2.1 | 2.1 | 1.2 | 1.8 | 1.6 | N/A | N/A | N/A | N/A | N/A | 2,023 | 1,895 | 1,910 | 2,077 | 3,215 | 3,008 | |
| South Carolina | 3.5 | 3.9 | 3.3 | 5.6 | 4.4 | 4.2 | 3.0 | 2.9 | 2.8 | 2.5 | 2.5 | 492 | 521 | 570 | 790 | 1,042 | 1,217 | |
| South Dakota | 6.7 | 4.7 | 7.2 | 4.9 | 7.5 | 7.3 | N/A | N/A | N/A | N/A | N/A | 2,346 | 2,309 | 2,712 | 2,419 | 4,176 | 2,958 | |
| Tennessee | 3.8 | 3.6 | 4.8 | 3.7 | 4.3 | 4.4 | 3.5 | 3.3 | 3.2 | 2.9 | 2.9 | 727 | 687 | 1,441 | 1,566 | 1,510 | 1,472 | |
| Texas | 4.8 | 4.4 | 4.5 | 4.5 | 4.4 | 4.3 | 2.7 | 2.6 | 2.4 | 2.2 | 2.2 | 2,187 | 2,154 | 2,098 | 2,397 | 3,481 | 3,423 | |
| Utah | 3.0 | 2.9 | 4.2 | 3.2 | 3.2 | 2.9 | 3.4 | 3.4 | 3.2 | 2.9 | 3.0 | 1,053 | 1,173 | 1,234 | 1,322 | 1,315 | 1,315 | |
| Vermont | 3.5 | 2.2 | 3.2 | 2.9 | 3.2 | 7.0 | 5.0 | 5.2 | 5.0 | 4.6 | 4.6 | 1,008 | 889 | 1,038 | 1,201 | 1,698 | 2,627 | |
| Virginia | 3.8 | 3.2 | 2.8 | 2.8 | 4.0 | 2.9 | 2.7 | 2.6 | 2.7 | 2.4 | 2.4 | 726 | 660 | 893 | 1,504 | 1,871 | 2,357 | |

Workplace Safety and Health Statistics by State, 2012–2017

| | Fatality Rates ¹ | | | | | Injury/Illness Rates ² | | | | | Average Penalties(\$) ³ | | | | | | | |
|-------------------------------------|-----------------------------|------|------|------|------|-----------------------------------|------|------|------|------|------------------------------------|------|---------|---------|---------|---------|---------|---------|
| | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | FY13 | FY14 | FY15 | FY16 | FY17 | FY18 |
| Washington | 2.2 | 1.7 | 2.7 | 2.1 | 2.4 | 2.5 | 4.8 | 4.8 | 4.6 | 4.4 | 4.3 | 4.0 | 791 | 896 | 1,089 | 2,118 | 1,866 | 1,940 |
| West Virginia | 6.9 | 8.6 | 5.2 | 5.0 | 6.6 | 7.4 | 4.1 | 3.7 | 4.0 | 3.2 | 3.2 | 2.9 | 1,798 | 1,685 | 1,801 | 1,916 | 3,102 | 3,640 |
| Wisconsin | 4.0 | 3.5 | 3.5 | 3.5 | 3.6 | 3.5 | 4.0 | 4.0 | 3.9 | 3.6 | 3.7 | 3.6 | 2,207 | 2,121 | 2,277 | 2,573 | 4,068 | 3,910 |
| Wyoming | 12.2 | 9.5 | 13.1 | 12.0 | 12.3 | 7.7 | 3.5 | 3.4 | 3.5 | 3.4 | 3.4 | 3.5 | 1,777 | 1,911 | 2,824 | 2,732 | 2,188 | 3,340 |
| National Average⁴ | 3.4 | 3.3 | 3.4 | 3.4 | 3.6 | 3.5 | 3.4 | 3.3 | 3.2 | 3.0 | 2.9 | 2.8 | \$1,489 | \$1,972 | \$2,148 | \$2,087 | \$2,633 | \$2,729 |

¹Bureau of Labor Statistics, rate per 100,000 workers.

²Bureau of Labor Statistics; rate of total cases per 100 workers. Number and rate are for private sector only and national average includes Guam, Puerto Rico and the Virgin Islands.

³U.S. Department of Labor, OSHA IMIS Inspection Reports, National by Region for 18(B) State (only) and/or National by Region for Federal (only), FY 2012 through FY 2015, and OIS inspection reports for FY 2012 through FY 2018. Penalties shown are average per serious citation for conditions creating a substantial probability of death or serious physical harm to workers. For Connecticut, Illinois, New Jersey, New York and Maine—states that operate their own state plan for public employees only—averages are based only on federal data.

⁴National average is the per citation average for federal OSHA serious penalties and state OSHA plan states' serious penalties combined. Federal serious penalties average \$3,580 per citation; state plan OSHA states average \$1,985 per citation.

Workplace Fatalities by State, 1998–2017

| State | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Alabama | 135 | 123 | 103 | 138 | 102 | 124 | 133 | 128 | 100 | 108 | 107 | 75 | 92 | 75 | 84 | 78 | 75 | 70 | 100 | 83 |
| Alaska | 43 | 42 | 53 | 64 | 42 | 28 | 42 | 29 | 45 | 30 | 33 | 17 | 39 | 39 | 31 | 32 | 30 | 14 | 35 | 33 |
| Arizona | 74 | 70 | 118 | 87 | 101 | 80 | 84 | 99 | 112 | 97 | 100 | 76 | 77 | 69 | 60 | 95 | 88 | 69 | 77 | 90 |
| Arkansas | 86 | 76 | 106 | 68 | 80 | 87 | 70 | 80 | 78 | 89 | 85 | 75 | 88 | 93 | 63 | 63 | 67 | 74 | 68 | 76 |
| California | 626 | 602 | 553 | 515 | 478 | 459 | 467 | 465 | 537 | 461 | 465 | 409 | 326 | 390 | 375 | 396 | 344 | 388 | 376 | 376 |
| Colorado | 77 | 106 | 117 | 139 | 123 | 102 | 117 | 125 | 137 | 126 | 105 | 83 | 85 | 92 | 82 | 65 | 84 | 75 | 81 | 77 |
| Connecticut | 57 | 38 | 55 | 41 | 39 | 36 | 54 | 46 | 38 | 38 | 28 | 34 | 49 | 37 | 36 | 29 | 35 | 44 | 28 | 35 |
| Delaware | 11 | 14 | 13 | 10 | 11 | 9 | 10 | 11 | 15 | 10 | 11 | 7 | 8 | 10 | 14 | 11 | 12 | 8 | 12 | 10 |
| Florida | 384 | 345 | 329 | 368 | 354 | 347 | 422 | 406 | 360 | 363 | 291 | 245 | 225 | 226 | 218 | 239 | 228 | 272 | 309 | 299 |
| Georgia | 202 | 229 | 195 | 237 | 197 | 199 | 232 | 200 | 201 | 193 | 182 | 110 | 108 | 111 | 101 | 117 | 152 | 180 | 171 | 194 |
| Hawaii | 12 | 32 | 20 | 41 | 24 | 21 | 25 | 15 | 30 | 23 | 19 | 13 | 19 | 26 | 20 | 11 | 31 | 18 | 29 | 20 |
| Idaho | 51 | 43 | 35 | 45 | 39 | 43 | 38 | 35 | 38 | 31 | 36 | 27 | 33 | 37 | 19 | 30 | 34 | 36 | 30 | 37 |
| Illinois | 216 | 208 | 206 | 231 | 190 | 200 | 208 | 194 | 207 | 185 | 193 | 158 | 206 | 177 | 146 | 176 | 164 | 172 | 171 | 163 |
| Indiana | 155 | 171 | 159 | 152 | 136 | 132 | 153 | 157 | 148 | 127 | 143 | 125 | 118 | 125 | 115 | 127 | 130 | 115 | 137 | 138 |
| Iowa | 68 | 80 | 71 | 62 | 57 | 76 | 82 | 90 | 71 | 89 | 93 | 80 | 77 | 93 | 97 | 72 | 91 | 60 | 76 | 72 |
| Kansas | 98 | 87 | 85 | 94 | 89 | 78 | 80 | 81 | 85 | 101 | 73 | 76 | 85 | 78 | 76 | 55 | 73 | 60 | 74 | 72 |
| Kentucky | 117 | 120 | 132 | 105 | 146 | 145 | 143 | 122 | 147 | 112 | 106 | 101 | 69 | 93 | 91 | 86 | 82 | 99 | 92 | 70 |
| Louisiana | 159 | 141 | 143 | 117 | 103 | 95 | 121 | 111 | 118 | 139 | 135 | 140 | 111 | 111 | 116 | 114 | 120 | 112 | 95 | 117 |
| Maine | 26 | 32 | 26 | 23 | 30 | 23 | 16 | 15 | 20 | 21 | 24 | 16 | 20 | 26 | 19 | 19 | 19 | 15 | 18 | 18 |
| Maryland | 78 | 82 | 84 | 64 | 102 | 92 | 81 | 95 | 106 | 82 | 60 | 65 | 71 | 71 | 72 | 79 | 74 | 69 | 92 | 87 |
| Massachusetts | 44 | 83 | 70 | 54 | 46 | 78 | 72 | 75 | 66 | 75 | 68 | 64 | 54 | 68 | 44 | 57 | 55 | 69 | 109 | 108 |
| Michigan | 179 | 182 | 156 | 175 | 152 | 152 | 127 | 110 | 157 | 120 | 123 | 94 | 146 | 141 | 137 | 135 | 143 | 134 | 162 | 153 |

Workplace Fatalities by State, 1998–2017

| State | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Minnesota | 88 | 72 | 68 | 76 | 81 | 72 | 80 | 87 | 78 | 72 | 65 | 61 | 70 | 60 | 70 | 69 | 62 | 74 | 92 | 101 |
| Mississippi | 113 | 128 | 125 | 111 | 94 | 102 | 88 | 112 | 96 | 93 | 80 | 67 | 68 | 63 | 63 | 68 | 75 | 77 | 71 | 90 |
| Missouri | 145 | 165 | 148 | 145 | 175 | 154 | 165 | 185 | 167 | 156 | 148 | 142 | 106 | 132 | 88 | 118 | 106 | 117 | 124 | 125 |
| Montana | 58 | 49 | 42 | 58 | 51 | 39 | 39 | 50 | 45 | 54 | 40 | 52 | 36 | 49 | 34 | 28 | 28 | 36 | 38 | 32 |
| Nebraska | 56 | 66 | 59 | 57 | 83 | 51 | 46 | 36 | 57 | 63 | 53 | 57 | 54 | 39 | 48 | 39 | 55 | 50 | 60 | 35 |
| Nevada | 60 | 58 | 51 | 40 | 47 | 52 | 61 | 57 | 49 | 71 | 41 | 24 | 38 | 38 | 42 | 42 | 40 | 44 | 54 | 32 |
| New Hampshire | 23 | 14 | 13 | 9 | 19 | 19 | 15 | 18 | 13 | 14 | 7 | 6 | 6 | 9 | 14 | 14 | 17 | 18 | 22 | 11 |
| New Jersey | 103 | 104 | 115 | 129 | 129 | 104 | 129 | 112 | 88 | 106 | 92 | 99 | 81 | 99 | 92 | 102 | 87 | 97 | 101 | 69 |
| New Mexico | 48 | 39 | 35 | 59 | 63 | 46 | 57 | 44 | 59 | 52 | 31 | 42 | 38 | 52 | 39 | 54 | 53 | 35 | 41 | 44 |
| New York | 243 | 241 | 233 | 220 | 240 | 227 | 254 | 239 | 234 | 220 | 213 | 185 | 182 | 206 | 202 | 178 | 241 | 236 | 272 | 313 |
| North Carolina | 228 | 222 | 234 | 203 | 169 | 182 | 183 | 165 | 168 | 167 | 161 | 129 | 139 | 148 | 146 | 109 | 137 | 150 | 174 | 183 |
| North Dakota | 24 | 22 | 34 | 25 | 25 | 26 | 24 | 22 | 31 | 25 | 28 | 25 | 30 | 44 | 65 | 56 | 38 | 47 | 28 | 38 |
| Ohio | 186 | 222 | 207 | 209 | 202 | 206 | 202 | 168 | 193 | 165 | 168 | 137 | 161 | 155 | 161 | 149 | 185 | 202 | 164 | 174 |
| Oklahoma | 75 | 99 | 82 | 115 | 92 | 100 | 91 | 95 | 91 | 104 | 102 | 82 | 94 | 86 | 97 | 92 | 98 | 91 | 92 | 91 |
| Oregon | 72 | 69 | 52 | 44 | 63 | 75 | 60 | 65 | 87 | 69 | 55 | 66 | 47 | 58 | 43 | 49 | 69 | 44 | 72 | 60 |
| Pennsylvania | 235 | 221 | 199 | 225 | 188 | 208 | 230 | 224 | 240 | 220 | 241 | 168 | 221 | 186 | 194 | 183 | 179 | 173 | 163 | 172 |
| Rhode Island | 12 | 11 | 7 | 17 | 8 | 18 | 7 | 6 | 10 | 5 | 6 | 7 | 9 | 7 | 8 | 10 | 10 | 6 | 9 | 8 |
| South Carolina | 111 | 139 | 115 | 91 | 107 | 115 | 113 | 132 | 95 | 122 | 87 | 73 | 69 | 81 | 63 | 75 | 64 | 117 | 96 | 88 |
| South Dakota | 28 | 46 | 35 | 35 | 36 | 28 | 24 | 31 | 37 | 22 | 30 | 24 | 36 | 31 | 31 | 20 | 29 | 21 | 31 | 30 |
| Tennessee | 150 | 154 | 160 | 136 | 140 | 137 | 145 | 139 | 153 | 154 | 135 | 111 | 138 | 120 | 101 | 95 | 127 | 112 | 122 | 128 |
| Texas | 523 | 468 | 572 | 536 | 417 | 491 | 440 | 495 | 489 | 528 | 463 | 482 | 461 | 433 | 536 | 508 | 531 | 527 | 545 | 534 |

Workplace Fatalities by State, 1998–2017

| State | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Utah | 67 | 54 | 61 | 65 | 52 | 54 | 50 | 54 | 60 | 78 | 64 | 48 | 41 | 39 | 39 | 37 | 54 | 42 | 44 | 43 |
| Vermont | 16 | 14 | 15 | 6 | 11 | 14 | 7 | 7 | 14 | 10 | 10 | 12 | 12 | 8 | 11 | 7 | 10 | 9 | 10 | 22 |
| Virginia | 177 | 154 | 148 | 146 | 142 | 155 | 171 | 186 | 165 | 146 | 156 | 119 | 107 | 127 | 149 | 128 | 116 | 106 | 153 | 118 |
| Washington | 113 | 88 | 75 | 102 | 86 | 83 | 98 | 85 | 87 | 90 | 84 | 76 | 104 | 60 | 67 | 56 | 88 | 70 | 78 | 84 |
| West Virginia | 57 | 57 | 46 | 63 | 40 | 51 | 58 | 46 | 79 | 61 | 53 | 41 | 95 | 43 | 49 | 61 | 38 | 35 | 47 | 51 |
| Wisconsin | 97 | 105 | 107 | 110 | 91 | 103 | 94 | 125 | 91 | 104 | 77 | 94 | 91 | 89 | 114 | 97 | 99 | 104 | 105 | 106 |
| Wyoming | 33 | 32 | 36 | 40 | 33 | 37 | 43 | 46 | 36 | 48 | 33 | 19 | 33 | 32 | 35 | 26 | 37 | 34 | 34 | 20 |
| Total^{1,2,3} | 6,055 | 6,054 | 5,920 | 5,915 | 5,534 | 5,575 | 5,764 | 5,734 | 5,840 | 5,657 | 5,214 | 4,551 | 4,690 | 4,693 | 4,628 | 4,585 | 4,821 | 4,836 | 5,190 | 5,147 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

¹In 2017, 31 fatal injuries occurred in Puerto Rico, and zero occurred in Guam and the U.S. Virgin Islands. These are not reflected in the U.S. total.

²Totals include fatalities that occurred in the District of Columbia. In 2017, D.C. had 13 fatalities.

³States cannot always be assigned to fatality cases. For example, some fatalities occur at sea outside of specific state jurisdictions. In 2017, four fatal injuries occurred within the territorial boundaries of the United States, but a state of incident could not be determined.

Fatalities by State and Event or Exposure, 2017

| State | Total Fatalities | Assaults and Violent Acts | Transportation Incidents | Fires and Explosions | Falls | Exposure to Harmful Substances or Environments | Contact with Objects and Equipment |
|----------------------|------------------|---------------------------|--------------------------|----------------------|-------|--|------------------------------------|
| Alabama | 83 | 5 | 34 | -- | 13 | 7 | 21 |
| Alaska | 33 | 6 | 18 | -- | 6 | -- | 1 |
| Arizona | 90 | 20 | 37 | -- | 12 | 8 | 9 |
| Arkansas | 76 | 9 | 47 | -- | 10 | 3 | 7 |
| California | 376 | 66 | 139 | 4 | 82 | 29 | 52 |
| Colorado | 77 | 11 | 38 | 3 | 14 | 3 | 8 |
| Connecticut | 35 | 8 | 14 | -- | 4 | 5 | 3 |
| Delaware | 10 | 4 | -- | -- | 3 | -- | -- |
| District of Columbia | 13 | -- | 2 | -- | 4 | -- | 4 |
| Florida | 299 | 43 | 107 | 7 | 62 | 48 | 31 |
| Georgia | 194 | 30 | 96 | -- | 27 | 13 | 25 |
| Hawaii | 20 | 3 | 10 | -- | 5 | -- | -- |
| Idaho | 37 | 4 | 17 | -- | 4 | -- | 10 |
| Illinois | 163 | 20 | 61 | 7 | 27 | 22 | 23 |
| Indiana | 138 | 28 | 50 | 1 | 20 | 16 | 21 |
| Iowa | 72 | 6 | 40 | 1 | 8 | -- | 16 |
| Kansas | 72 | 12 | 42 | 2 | 5 | -- | 9 |
| Kentucky | 70 | 8 | 28 | -- | 12 | 7 | 12 |
| Louisiana | 117 | 20 | 49 | 7 | 13 | 16 | 11 |
| Maine | 18 | 3 | 9 | -- | -- | 3 | -- |
| Maryland | 87 | 15 | 29 | 1 | 18 | 14 | 10 |

Fatalities by State and Event or Exposure, 2017

| State | Total Fatalities | Assaults and Violent Acts | Transportation Incidents | Fires and Explosions | Falls | Exposure to Harmful Substances or Environments | Contact with Objects and Equipment |
|----------------|------------------|---------------------------|--------------------------|----------------------|-------|--|------------------------------------|
| Massachusetts | 108 | 15 | 36 | 1 | 21 | 31 | 4 |
| Michigan | 153 | 41 | 43 | 7 | 27 | 11 | 23 |
| Minnesota | 101 | 14 | 46 | 5 | 14 | 5 | 16 |
| Mississippi | 90 | 10 | 55 | -- | 10 | 8 | 7 |
| Missouri | 125 | 31 | 46 | 8 | 13 | 11 | 16 |
| Montana | 32 | 5 | 12 | 2 | 5 | -- | 7 |
| Nebraska | 35 | 2 | 20 | 1 | 4 | -- | 7 |
| Nevada | 32 | 8 | 13 | -- | 7 | 3 | -- |
| New Hampshire | 11 | -- | 1 | 1 | -- | -- | 5 |
| New Jersey | 69 | 10 | 25 | 3 | 12 | 10 | 9 |
| New Mexico | 44 | 7 | 28 | -- | -- | -- | 4 |
| New York | 313 | 53 | 78 | 6 | 103 | 41 | 30 |
| North Carolina | 183 | 27 | 73 | 6 | 28 | 23 | 26 |
| North Dakota | 38 | -- | 26 | 1 | -- | 3 | 5 |
| Ohio | 174 | 32 | 52 | 4 | 31 | 28 | 24 |
| Oklahoma | 91 | 12 | 47 | -- | 13 | 8 | 9 |
| Oregon | 60 | 6 | 29 | -- | 6 | 4 | 13 |
| Pennsylvania | 172 | 27 | 61 | 5 | 19 | 26 | 34 |
| Rhode Island | 8 | -- | -- | -- | -- | -- | -- |
| South Carolina | 88 | 12 | 42 | -- | 12 | 9 | 12 |
| South Dakota | 30 | 2 | 17 | -- | 6 | 2 | 3 |

Fatalities by State and Event or Exposure, 2017

| State | Total Fatalities | Assaults and Violent Acts | Transportation Incidents | Fires and Explosions | Falls | Exposure to Harmful Substances or Environments | Contact with Objects and Equipment |
|----------------------------|------------------|---------------------------|--------------------------|----------------------|------------|--|------------------------------------|
| Tennessee | 128 | 20 | 57 | -- | 21 | 12 | 18 |
| Texas | 534 | 73 | 234 | 9 | 93 | 49 | 74 |
| Utah | 43 | 7 | 18 | -- | 3 | 5 | 10 |
| Vermont | 22 | 3 | 10 | -- | -- | 3 | 3 |
| Virginia | 118 | 26 | 41 | -- | 20 | 14 | 15 |
| Washington | 84 | 13 | 30 | -- | 26 | 3 | 10 |
| West Virginia | 51 | -- | 19 | 4 | 11 | 8 | 9 |
| Wisconsin | 106 | 20 | 35 | 7 | 18 | 6 | 20 |
| Wyoming | 20 | 4 | 11 | -- | -- | -- | 3 |
| Total^{1,2} | 5,147 | 807 | 2,077 | 123 | 887 | 531 | 695 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

¹Zero fatal injuries occurred in Guam and 31 fatal injuries occurred in Puerto Rico, but are not reflected in the U.S. total.

²States and events or exposures cannot always be assigned to fatality cases. Also, some fatalities occur outside of specific state jurisdictions, such as at sea.

Note: State totals include other events and exposures, such as bodily reaction. Dashes indicate no data reported or data that do not meet BLS publication criteria.

Number and Rate of Injuries and Illnesses by State for All Industries, Private Industry, State Government and Local Government, 2017

| State | Number of Injuries/Illnesses | | | | Rate of Injuries/Illnesses ¹ | | | |
|---------------|------------------------------|------------------|------------------|------------------|---|------------------|------------------|------------------|
| | All Industries | Private Industry | State Government | Local Government | All Industries | Private Industry | State Government | Local Government |
| Alabama | 38,500 | 32,900 | N/A | N/A | 2.4 | 2.5 | N/A | N/A |
| Alaska | 9,200 | 7,500 | 300 | 1,500 | 3.9 | 3.8 | 1.7 | 5.8 |
| Arizona | 67,200 | 56,300 | 1,500 | 9,400 | 3.0 | 2.9 | 2.4 | 5.3 |
| Arkansas | 28,300 | 22,000 | 2,600 | 3,700 | 2.7 | 2.5 | 4.2 | 3.9 |
| California | 466,600 | 362,600 | 18,400 | 85,600 | 3.6 | 3.2 | 4.7 | 6.8 |
| Colorado | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Connecticut | 46,500 | 37,600 | 2,200 | 6,700 | 3.6 | 3.2 | 4.4 | 7.2 |
| Delaware | 8,800 | 6,900 | 900 | 1,000 | 2.5 | 2.3 | 3.3 | 4.3 |
| Florida | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Georgia | 93,600 | 78,200 | N/A | N/A | 2.7 | 2.6 | N/A | N/A |
| Hawaii | 18,000 | 15,700 | 1,100 | 1,200 | 3.7 | 3.8 | 2.2 | 5.5 |
| Idaho | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Illinois | 132,400 | 108,200 | 3,000 | 21,200 | 2.9 | 2.6 | 3.0 | 4.9 |
| Indiana | 83,500 | 71,500 | 2,000 | 9,900 | 3.5 | 3.3 | 2.3 | 5.2 |
| Iowa | 45,800 | 38,100 | 1,400 | 6,400 | 3.6 | 3.5 | 3.4 | 5.2 |
| Kansas | 33,900 | 28,200 | N/A | 5,300 | 3.2 | 3.0 | N/A | 4.7 |
| Kentucky | 50,100 | 41,200 | 2,100 | 6,800 | 3.3 | 3.1 | 3.1 | 5.3 |
| Louisiana | 34,900 | 25,400 | 2,000 | 7,500 | 2.2 | 1.9 | 3.0 | 4.3 |
| Maine | 22,100 | 19,100 | 800 | 2,200 | 4.8 | 4.8 | 4.7 | 5.4 |
| Maryland | 62,600 | 46,600 | 4,100 | 11,900 | 3.0 | 2.6 | 4.5 | 6.6 |
| Massachusetts | 73,300 | 65,100 | 3,700 | N/A | 2.7 | 2.7 | 4.0 | N/A |

Number and Rate of Injuries and Illnesses by State for All Industries, Private Industry, State Government and Local Government, 2017

| State | Number of Injuries/Illnesses | | | | Rate of Injuries/Illnesses ¹ | | | |
|----------------|------------------------------|------------------|------------------|------------------|---|------------------|------------------|------------------|
| | All Industries | Private Industry | State Government | Local Government | All Industries | Private Industry | State Government | Local Government |
| Michigan | 109,300 | 93,900 | 3,500 | 11,900 | 3.3 | 3.1 | 2.9 | 5.0 |
| Minnesota | 72,500 | 63,300 | 1,600 | 7,600 | 3.3 | 3.2 | 2.3 | 4.4 |
| Mississippi | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Missouri | 64,200 | 50,600 | N/A | 7,700 | 2.8 | 2.6 | N/A | 3.8 |
| Montana | 15,000 | 12,700 | 600 | 1,700 | 4.4 | 4.3 | 3.3 | 5.7 |
| Nebraska | 23,600 | 20,500 | N/A | 2,300 | 3.0 | 3.0 | N/A | 2.8 |
| Nevada | 40,600 | 35,700 | 1,000 | 3,900 | 3.8 | 3.7 | 2.9 | 5.1 |
| New Hampshire | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| New Jersey | 92,200 | 71,700 | 4,200 | 16,300 | 2.9 | 2.6 | 4.1 | 5.6 |
| New Mexico | 19,800 | 14,300 | 1,400 | 4,100 | 3.1 | 2.7 | 3.1 | 6 |
| New York | 203,100 | 138,600 | 14,000 | 50,600 | 2.8 | 2.2 | 6.1 | 6.3 |
| North Carolina | 90,000 | 70,700 | 3,600 | 15,700 | 2.5 | 2.3 | 2.6 | 4.3 |
| North Dakota | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Ohio | 116,800 | 101,500 | 2,800 | 12,500 | 2.7 | 2.6 | 2.1 | 3.5 |
| Oklahoma | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Oregon | 54,100 | 46,500 | 1,900 | 5,700 | 3.8 | 3.8 | 2.9 | 4.4 |
| Pennsylvania | 141,900 | 132,500 | N/A | N/A | 3.1 | 3.1 | N/A | N/A |
| Rhode Island | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| South Carolina | 45,400 | 34,800 | 2,400 | 8,200 | 2.8 | 2.5 | 3.3 | 4.6 |
| South Dakota | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Tennessee | 71,100 | 60,100 | 1,500 | 9,500 | 3.0 | 2.9 | 2.0 | 4.2 |

Number and Rate of Injuries and Illnesses by State for All Industries, Private Industry, State Government and Local Government, 2017

| State | Number of Injuries/Illnesses | | | | Rate of Injuries/Illnesses ¹ | | | |
|--|------------------------------|------------------|------------------|------------------|---|------------------|------------------|------------------|
| | All Industries | Private Industry | State Government | Local Government | All Industries | Private Industry | State Government | Local Government |
| Texas | 230,500 | 183,400 | N/A | N/A | 2.3 | 2.2 | N/A | N/A |
| Utah | 33,600 | 29,600 | 1,500 | 2,500 | 3.0 | 3.0 | 3.1 | 3.1 |
| Vermont | 10,400 | 9,100 | N/A | 1,100 | 4.5 | 4.6 | 3.8 | 5.3 |
| Virginia | 77,100 | 60,200 | 2,300 | 13,700 | 2.6 | 2.4 | 2.8 | 4.6 |
| Washington | 104,500 | 86,600 | 4,400 | 13,500 | 4.2 | 4.0 | 3.7 | 6.2 |
| West Virginia | 16,800 | 13,100 | 1,200 | 2,500 | 3.1 | 2.9 | 3.1 | 4.2 |
| Wisconsin | 82,400 | 71,900 | 2,000 | 8,500 | 3.7 | 3.6 | 2.9 | 4.6 |
| Wyoming | 7,900 | 6,000 | 400 | 1,500 | 3.7 | 3.5 | 3.7 | 4.4 |
| Total or National Average² | 3.5 Million | 2.8 Million | 143,900 | 520,400 | 3.1 | 2.8 | 3.6 | 5.0 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses.

¹Rate of total cases of injuries and illnesses per 100 workers.

²Total number of injuries and illnesses and national average rate of injuries and illnesses includes the District of Columbia, Guam, Puerto Rico and the Virgin Islands.

Hispanic and Latino Worker Fatalities by State, 1998–2017¹

| State | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Alabama | -- | -- | -- | -- | 5 | 8 | 6 | 9 | 6 | 5 | 5 | -- | 5 | 3 | 5 | 6 | -- | 3 | 5 | 8 |
| Alaska | -- | -- | -- | -- | -- | -- | -- | 3 | 5 | -- | -- | -- | -- | 5 | 5 | 3 | -- | -- | -- | -- |
| Arizona | 27 | 26 | 26 | 34 | 28 | 17 | 25 | 36 | 36 | 26 | 30 | 22 | 18 | 21 | 16 | 25 | 31 | 18 | 21 | 30 |
| Arkansas | -- | 8 | 9 | -- | 5 | 9 | 5 | 8 | 3 | 5 | 9 | -- | 6 | 7 | 3 | 6 | 9 | 10 | 4 | 6 |
| California | 174 | 216 | 172 | 188 | 176 | 164 | 188 | 190 | 231 | 179 | 180 | 161 | 142 | 154 | 137 | 194 | 130 | 178 | 148 | 173 |
| Colorado | 15 | 19 | 27 | 25 | 16 | 25 | 25 | 19 | 18 | 30 | 21 | 17 | 19 | 22 | 21 | 14 | 18 | 20 | 23 | 29 |
| Connecticut | 10 | -- | 12 | 9 | 7 | -- | 10 | 5 | 7 | 4 | 7 | 4 | 5 | 7 | 6 | 5 | 3 | 8 | 4 | 4 |
| Delaware | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3 | 3 | -- | -- | -- |
| Florida | 58 | 68 | 75 | 84 | 98 | 90 | 119 | 113 | 95 | 111 | 73 | 49 | 38 | 53 | 54 | 68 | 60 | 78 | 91 | 81 |
| Georgia | 19 | 17 | 26 | 36 | 16 | 26 | 29 | 25 | 35 | 28 | 26 | 10 | 16 | 14 | 10 | 14 | 21 | 26 | 16 | 24 |
| Hawaii | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4 | -- | -- | -- | -- | 1 | -- | 4 | 3 | -- | -- |
| Idaho | -- | 6 | 5 | -- | 9 | 3 | 6 | 3 | 7 | -- | 5 | 4 | 5 | -- | -- | 6 | 5 | 5 | 6 | 8 |
| Illinois | 17 | 21 | 17 | 30 | 27 | 22 | 29 | 23 | 30 | 27 | 25 | 16 | 25 | 25 | 19 | 26 | 16 | 19 | 27 | 17 |
| Indiana | -- | -- | -- | 8 | 9 | 7 | 7 | 5 | 7 | 7 | 14 | 3 | 3 | 8 | 8 | 8 | 13 | 6 | 3 | 8 |
| Iowa | -- | -- | -- | -- | -- | -- | 7 | -- | -- | 4 | 6 | 8 | 5 | 3 | 4 | -- | 3 | -- | 4 | -- |
| Kansas | 15 | 5 | 5 | 6 | 5 | 4 | 11 | 10 | 4 | 5 | 9 | 8 | 4 | 10 | 8 | 6 | 10 | 12 | 7 | 12 |
| Kentucky | -- | -- | -- | -- | -- | 3 | -- | 6 | 7 | 6 | 7 | 3 | -- | 3 | 6 | -- | 8 | 5 | 7 | -- |
| Louisiana | -- | -- | 5 | 5 | -- | -- | 9 | 8 | 10 | 11 | 5 | 11 | 7 | 8 | 13 | 15 | 8 | 9 | 10 | 12 |
| Maine | -- | -- | -- | -- | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Maryland | -- | -- | 6 | -- | 10 | 11 | 17 | 8 | 22 | 7 | 10 | 3 | 12 | 8 | 15 | 15 | 8 | 9 | 14 | 21 |

Hispanic and Latino Worker Fatalities by State, 1998–2017¹

| State | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Massachusetts | -- | 6 | -- | 6 | 5 | 6 | 9 | 6 | 7 | 11 | 10 | 5 | 7 | 11 | 3 | 3 | 2 | 4 | 10 | 14 |
| Michigan | 6 | 12 | 6 | 7 | 7 | 4 | 6 | 8 | 12 | 7 | 8 | 4 | 10 | 4 | 4 | 3 | 6 | 12 | 7 | 10 |
| Minnesota | -- | -- | 5 | -- | -- | 5 | 3 | 6 | 4 | -- | -- | -- | 3 | -- | -- | -- | 4 | -- | 6 | 5 |
| Mississippi | -- | -- | 5 | 11 | 5 | -- | 4 | 3 | 3 | 7 | 7 | 4 | 5 | -- | -- | -- | -- | 7 | -- | 3 |
| Missouri | -- | -- | -- | 8 | -- | 6 | 4 | -- | 4 | 7 | 4 | 6 | 3 | 4 | -- | 5 | 5 | 7 | 5 | 4 |
| Montana | -- | -- | -- | 5 | -- | -- | -- | 4 | 3 | 3 | -- | 3 | 3 | -- | -- | -- | -- | -- | -- | -- |
| Nebraska | -- | -- | -- | -- | 9 | 3 | 4 | -- | -- | 4 | 5 | -- | 3 | 3 | 5 | 3 | 9 | 4 | -- | 4 |
| Nevada | 9 | 6 | 10 | 10 | 8 | 10 | 17 | 9 | 12 | 12 | 13 | 6 | 9 | 8 | 8 | 9 | 8 | 13 | 14 | 9 |
| New Hampshire | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| New Jersey | 12 | 17 | 23 | 25 | 33 | 24 | 34 | 30 | 28 | 23 | 25 | 25 | 20 | 26 | 15 | 20 | 31 | 22 | 26 | 11 |
| New Mexico | 17 | 13 | 9 | 27 | 21 | 9 | 12 | 19 | 30 | 21 | 10 | 16 | 17 | 23 | 22 | 20 | 22 | 13 | 16 | 11 |
| New York | 34 | 42 | 55 | 45 | 43 | 36 | 45 | 34 | 57 | 41 | 33 | 35 | 29 | 30 | 39 | 32 | 50 | 51 | 47 | 43 |
| North Carolina | 14 | 12 | 22 | 20 | 25 | 21 | 26 | 27 | 23 | 14 | 20 | 12 | 13 | 21 | 13 | 16 | 19 | 17 | 19 | 20 |
| North Dakota | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4 | 5 | 3 | 12 | -- | -- | 4 | -- | -- |
| Ohio | 5 | -- | 5 | 6 | -- | 15 | 5 | 5 | 8 | 6 | 4 | 4 | 8 | 1 | 8 | 2 | 3 | 11 | 10 | 15 |
| Oklahoma | 5 | -- | -- | 16 | 8 | 3 | 13 | 8 | 8 | 13 | 9 | 7 | 17 | 10 | 7 | 18 | 16 | 17 | 10 | 16 |
| Oregon | 10 | -- | 6 | 5 | -- | 7 | 4 | 6 | 11 | 6 | -- | 8 | 6 | 6 | -- | 9 | 8 | 5 | 12 | 5 |
| Pennsylvania | 7 | 8 | 16 | 10 | 12 | 10 | 6 | 11 | 14 | 16 | 11 | 10 | 13 | 14 | 13 | 4 | 13 | 17 | 7 | 9 |
| Rhode Island | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3 | -- | -- | -- | -- | -- | -- |
| South Carolina | -- | 7 | 12 | 9 | 7 | 18 | 13 | 10 | 10 | 7 | 8 | 10 | 10 | 10 | 4 | 7 | 6 | 10 | 9 | 9 |

Hispanic and Latino Worker Fatalities by State, 1998–2017¹

| State | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| South Dakota | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3 | -- | -- | -- | -- | -- | -- | -- | 3 | -- |
| Tennessee | -- | 5 | 12 | 5 | 7 | 8 | 9 | 5 | 14 | 8 | 9 | 8 | 8 | 9 | 9 | 9 | 6 | 10 | 11 | 8 |
| Texas | 175 | 151 | 190 | 170 | 147 | 163 | 150 | 200 | 174 | 211 | 148 | 185 | 165 | 171 | 201 | 192 | 206 | 220 | 211 | 219 |
| Utah | 9 | 5 | 6 | 8 | 6 | 11 | 5 | 4 | 6 | 10 | 6 | 8 | 4 | 3 | 6 | 5 | 7 | 4 | 10 | 6 |
| Vermont | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1 | -- | -- | -- | -- | -- | -- |
| Virginia | 6 | 12 | 5 | 12 | 15 | 13 | 13 | 24 | 13 | 18 | 16 | 7 | 9 | 14 | 15 | 22 | 9 | 9 | 20 | 12 |
| Washington | 17 | -- | 13 | 13 | 15 | 5 | 14 | 7 | 7 | 10 | 8 | 7 | 14 | 5 | 12 | 4 | 8 | 14 | 13 | 9 |
| West Virginia | -- | -- | -- | -- | -- | -- | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Wisconsin | -- | -- | -- | 8 | -- | 3 | -- | 9 | 3 | 5 | -- | 5 | 4 | 4 | 7 | 7 | 5 | 7 | 4 | 7 |
| Wyoming | -- | -- | 5 | 5 | 8 | -- | 3 | -- | -- | 8 | -- | -- | -- | -- | 3 | -- | 3 | 4 | 4 | 3 |
| Totals^{2,3} | 707 | 730 | 815 | 891 | 840 | 794 | 902 | 923 | 990 | 937 | 804 | 713 | 707 | 749 | 748 | 817 | 804 | 903 | 879 | 903 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

¹Latino includes both foreign-born and native-born. The foreign-born are persons residing in the United States who were not U.S. citizens at birth. That is, they were born outside the United States or one of its outlying areas such as Puerto Rico or Guam, to parents neither of whom was a U.S. citizen. The foreign-born population includes legally admitted immigrants, refugees, temporary residents such as students and temporary workers, and undocumented immigrants. The survey data, however, do not separately identify the number of persons in these categories.

²Total includes fatalities that occurred in the District of Columbia. In 2017, D.C. had four Hispanic or Latino fatalities.

³States cannot always be assigned fatality cases. For example, some fatalities occur at sea outside of specific state jurisdictions, or the state is otherwise undetermined.

Note: Dashes indicate no data reported or data that do not meet BLS publication criteria.

Foreign-Born Worker Fatalities by State, 1998–2017¹

| State | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Alabama | -- | -- | -- | -- | 5 | 3 | 6 | 10 | -- | 5 | 3 | 7 | 10 | 5 | 8 | 7 | 5 | 4 | 5 | 10 |
| Alaska | -- | -- | -- | 9 | -- | -- | 7 | 5 | 4 | 4 | 3 | -- | 6 | 7 | 4 | -- | 2 | 2 | -- | 3 |
| Arizona | 23 | 21 | 19 | 29 | 22 | 15 | 21 | 31 | 27 | 18 | 21 | 14 | 15 | 15 | 16 | 19 | 22 | 18 | 25 | 20 |
| Arkansas | -- | 5 | 9 | -- | -- | -- | 4 | -- | -- | 9 | 7 | 3 | 12 | 5 | 4 | 8 | 11 | 12 | 8 | 7 |
| California | 111 | 223 | 195 | 208 | 170 | 146 | 174 | 203 | 229 | 182 | 145 | 146 | 145 | 164 | 153 | 176 | 137 | 162 | 151 | 161 |
| Colorado | 12 | 15 | 11 | 23 | 11 | 22 | 21 | 11 | 21 | 24 | 14 | 16 | 13 | 16 | 14 | 9 | 13 | 12 | 16 | 19 |
| Connecticut | 13 | 5 | 14 | 20 | 7 | 7 | 15 | 7 | 10 | 4 | -- | 3 | 10 | 9 | 8 | 8 | 8 | 14 | 9 | 6 |
| Delaware | -- | -- | -- | -- | -- | -- | -- | -- | 5 | -- | -- | -- | -- | 5 | 4 | 4 | 3 | 1 | 2 | 2 |
| Florida | 65 | 69 | 91 | 96 | 106 | 109 | 123 | 119 | 119 | 121 | 86 | 62 | 55 | 67 | 64 | 74 | 72 | 93 | 104 | 76 |
| Georgia | 22 | 14 | 28 | 57 | 20 | 34 | 24 | 31 | 35 | 28 | 27 | 4 | 4 | 18 | 16 | 13 | 31 | 31 | 31 | 33 |
| Hawaii | -- | -- | 6 | 11 | 8 | 4 | 9 | 4 | 11 | 6 | 4 | 3 | 4 | 7 | 7 | 2 | 8 | 4 | 4 | 7 |
| Idaho | -- | 5 | 5 | -- | 8 | 3 | 4 | 3 | 7 | 3 | 5 | 3 | 6 | 3 | 1 | 5 | 6 | 4 | 6 | 11 |
| Illinois | 29 | 31 | 28 | 52 | 37 | 42 | 44 | 36 | 37 | 34 | 34 | 23 | 42 | 38 | 28 | 31 | 27 | 24 | 30 | 33 |
| Indiana | 8 | 5 | 7 | 11 | 11 | 9 | 10 | 13 | 12 | 6 | 13 | 5 | 8 | 8 | 11 | 16 | 15 | 10 | 9 | 13 |
| Iowa | -- | -- | -- | -- | -- | -- | 5 | -- | -- | 7 | 7 | 8 | 3 | 2 | 7 | 4 | 3 | 3 | 6 | 2 |
| Kansas | 8 | -- | 5 | 5 | 7 | 6 | 10 | 12 | 4 | 5 | 10 | 5 | 4 | 9 | 8 | 6 | 7 | 7 | 4 | 11 |
| Kentucky | -- | -- | -- | -- | 8 | -- | 3 | 7 | 10 | 5 | 7 | 6 | -- | 4 | 6 | 6 | 9 | 8 | 8 | 3 |
| Louisiana | 7 | -- | 7 | 9 | -- | -- | 3 | 10 | 11 | 7 | 5 | 9 | 6 | 7 | 16 | 15 | 10 | 10 | 15 | 12 |
| Maine | 5 | -- | -- | -- | 15 | -- | -- | -- | -- | -- | -- | -- | 3 | -- | 1 | 2 | -- | 1 | 1 | 1 |
| Maryland | 9 | 15 | 12 | 8 | 16 | 21 | 24 | 26 | 34 | 18 | 15 | 10 | 16 | 12 | 20 | 21 | 17 | 16 | 19 | 25 |

Foreign-Born Worker Fatalities by State, 1998–2017¹

| State | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Massachusetts | 6 | 16 | 5 | 7 | 14 | 14 | 22 | 22 | 11 | 18 | 16 | 13 | 15 | 16 | 7 | 16 | 10 | 15 | 18 | 19 |
| Michigan | 7 | 24 | 18 | 15 | 15 | 16 | 11 | 12 | 19 | 14 | 10 | 8 | 17 | 10 | 12 | 12 | 15 | 16 | 13 | 10 |
| Minnesota | -- | -- | -- | -- | 5 | 5 | 4 | 10 | 6 | -- | -- | -- | 5 | 1 | 5 | 2 | 4 | 4 | 8 | 7 |
| Mississippi | -- | -- | -- | 6 | 5 | -- | 3 | 8 | -- | 9 | 5 | 3 | 6 | 4 | 2 | 3 | 3 | 10 | 5 | 3 |
| Missouri | -- | 10 | 7 | 6 | 7 | 5 | 9 | 6 | 9 | 12 | 8 | 9 | 4 | -- | -- | 19 | 10 | 11 | 6 | 7 |
| Montana | -- | -- | -- | -- | -- | -- | -- | -- | 4 | 3 | -- | 5 | -- | 1 | 4 | 3 | -- | 2 | 3 | 3 |
| Nebraska | -- | -- | -- | -- | 12 | -- | 3 | -- | -- | 5 | 6 | 4 | 3 | 3 | 7 | 4 | 8 | 2 | 5 | 3 |
| Nevada | 7 | 9 | 9 | 12 | 13 | 9 | 15 | 8 | 9 | 11 | 11 | -- | 9 | 13 | 11 | 5 | 9 | 14 | 16 | 9 |
| New Hampshire | -- | -- | -- | -- | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | 1 | -- | 1 | 1 | -- | 3 |
| New Jersey | 26 | 25 | 31 | 37 | 41 | 41 | 39 | 47 | 34 | 36 | 40 | 41 | 20 | 40 | 27 | 31 | 30 | 38 | 39 | 16 |
| New Mexico | 8 | -- | -- | 15 | 6 | 4 | 6 | 7 | 10 | 8 | 5 | 5 | 8 | 10 | 10 | 8 | 13 | 7 | 8 | -- |
| New York | 66 | 67 | 91 | 75 | 80 | 73 | 74 | 79 | 90 | 66 | 71 | 57 | 63 | 57 | 65 | 60 | 66 | 69 | 62 | 71 |
| North Carolina | 13 | 17 | 7 | 22 | 26 | 26 | 25 | 29 | 27 | 21 | 25 | 22 | 18 | 29 | 21 | 21 | 22 | 26 | 28 | 23 |
| North Dakota | -- | -- | -- | -- | -- | 4 | -- | -- | -- | -- | -- | -- | 3 | 3 | 12 | 1 | -- | 6 | 1 | 1 |
| Ohio | 8 | 9 | 12 | 7 | 13 | 18 | 10 | 11 | 13 | 8 | 10 | 10 | 13 | 8 | 19 | 13 | 12 | 22 | 10 | 18 |
| Oklahoma | -- | -- | -- | 13 | 15 | 7 | 11 | -- | -- | 14 | 5 | 7 | 13 | 10 | 7 | 17 | 10 | 16 | 13 | 21 |
| Oregon | 5 | 11 | -- | -- | 6 | 5 | 6 | 8 | 9 | 7 | -- | 10 | 10 | 6 | 2 | 11 | 8 | 4 | 12 | 7 |
| Pennsylvania | 9 | 11 | 16 | 16 | 13 | 15 | 19 | 24 | 23 | 28 | 25 | 22 | 34 | 28 | 19 | 11 | 18 | 17 | 12 | 10 |
| Rhode Island | -- | -- | -- | -- | -- | 4 | -- | -- | -- | -- | -- | -- | -- | -- | 4 | -- | 2 | 1 | 1 | -- |
| South Carolina | 6 | 7 | 16 | 12 | 8 | 18 | 18 | 13 | 11 | 10 | 8 | 8 | 13 | 11 | 4 | 7 | 8 | 13 | 12 | 8 |

Foreign-Born Worker Fatalities by State, 1998–2017¹

| State | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-----------------------------|------|------|------|------|------|------|------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| South Dakota | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1 | 3 | -- | -- | 3 | 1 |
| Tennessee | -- | -- | 5 | -- | 7 | 15 | 12 | 14 | 23 | 12 | 19 | 13 | 17 | 12 | 11 | 15 | 9 | 11 | 12 | 20 |
| Texas | 111 | 100 | 115 | 122 | 110 | 121 | 101 | 135 | 112 | 153 | 104 | 125 | 117 | 115 | 107 | 134 | 124 | 156 | 156 | 153 |
| Utah | 5 | 8 | 6 | 8 | 9 | 12 | 4 | 8 | 5 | 8 | 12 | 4 | 8 | 5 | 4 | 6 | 10 | 5 | 11 | 3 |
| Vermont | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1 | -- | -- | -- | -- | -- | 1 |
| Virginia | 10 | 18 | 17 | 22 | 20 | 22 | 41 | 33 | 17 | 31 | 18 | 21 | 12 | 19 | 25 | 22 | 19 | 11 | 34 | 20 |
| Washington | 19 | 7 | 13 | 17 | 19 | 6 | 21 | 9 | 12 | 23 | 15 | 9 | 11 | 12 | 15 | 8 | 13 | 10 | 13 | 15 |
| West Virginia | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3 | -- | -- | -- | 1 | 2 | 2 | 1 | 1 | 3 | 2 |
| Wisconsin | -- | 7 | -- | 9 | -- | 5 | 5 | 9 | -- | 5 | -- | 4 | -- | 9 | 13 | 8 | 7 | 13 | 7 | 7 |
| Wyoming | -- | -- | -- | -- | -- | -- | -- | -- | 4 | 7 | -- | -- | -- | 5 | 4 | 3 | 1 | 2 | 3 | 2 |
| Totals^{2,3} | 654 | 811 | 849 | 994 | 929 | 890 | 979 | 1,035 | 1,046 | 1,009 | 835 | 740 | 798 | 843 | 824 | 879 | 846 | 943 | 970 | 927 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries.

¹The foreign-born are persons residing in the United States who were not U.S. citizens at birth. That is, they were born outside the United States or one of its outlying areas such as Puerto Rico or Guam, to parents neither of whom was a U.S. citizen. The foreign-born population includes legally admitted immigrants, refugees, temporary residents such as students and temporary workers, and undocumented immigrants. The survey data, however, do not separately identify the number of persons in these categories.

²Totals include fatalities that may have occurred in the District of Columbia. In 2017, D.C. had five foreign-born fatalities.

³States cannot always be assigned fatality cases. For example, some fatalities occur at sea outside of specific state jurisdictions, or the state is otherwise undetermined.

Note: Dashes indicate no data reported or data that do not meet BLS publication criteria.

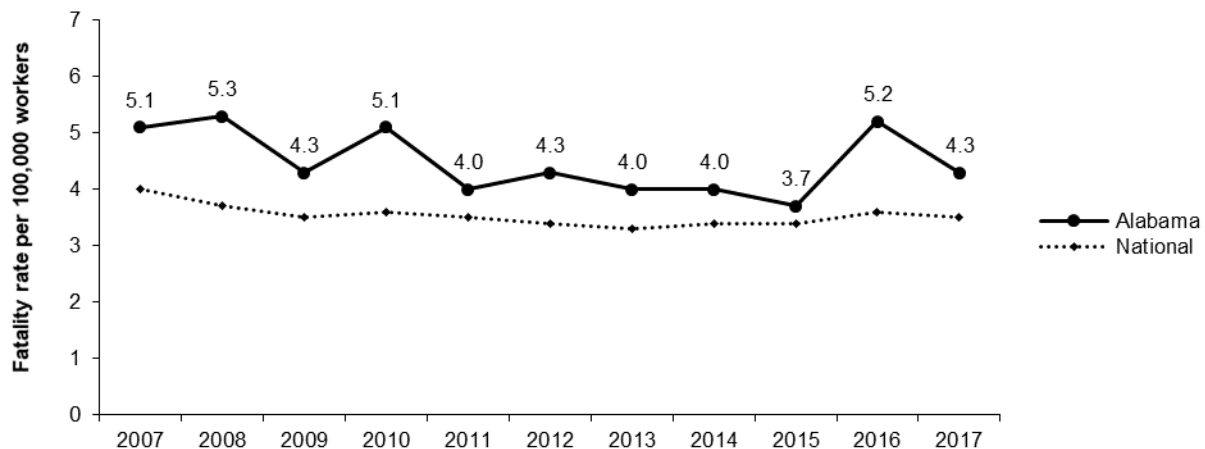
STATE PROFILES

ALABAMA

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 1,936,819 |
| Number of establishments: ¹ | 124,881 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 308,917 |
| | |
| Number of workplace fatalities, 2017: ³ | 83 |
| Rate per 100,000 workers: ⁴ | 4.3 |
| National rate: | 3.5 |
| | |
| Ranking of state fatality rate, 2017: ⁵ | 31 |
| | |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 32,900 |
| Rate per 100 workers: | 2.5 |
| National rate: | 2.8 |
| | |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 17,600 |
| Rate per 100 workers: | 1.3 |
| National rate: | 1.5 |
| | |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 24 |
| Length of time it would take for OSHA to inspect each workplace once: | 131 |
| | |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 913 |
| Construction: | 431 |
| Non-construction: | 482 |
| | |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,598 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$20,606 |
| National average: | \$14,231 |

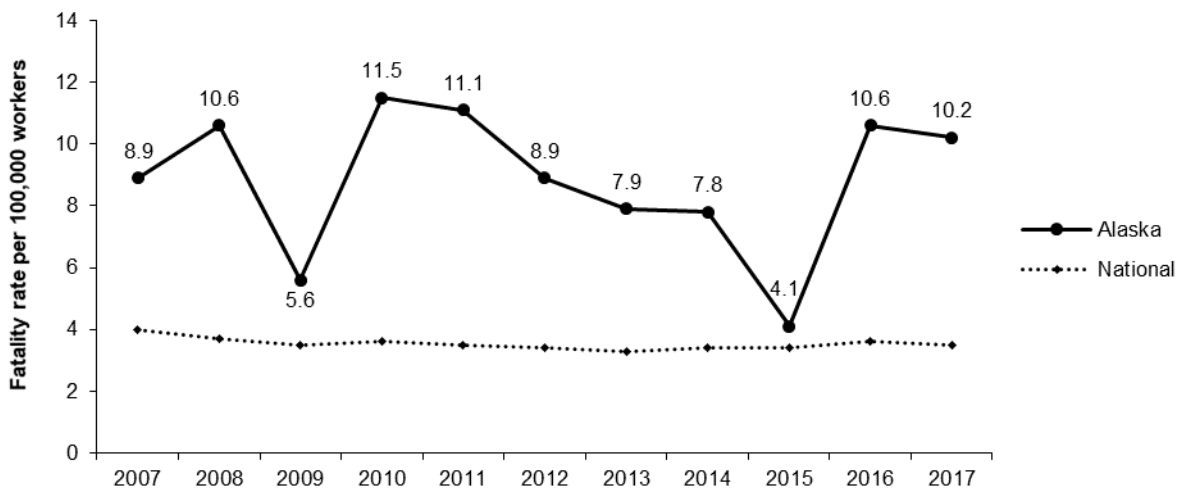


ALASKA

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 322,136 |
| Number of establishments: ¹ | 21,789 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 33 |
| Rate per 100,000 workers: ⁴ | 10.2 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 50 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 7,500 |
| Rate per 100 workers: | 3.8 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 3,700 |
| Rate per 100 workers: | 1.9 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 22 |
| Length of time it would take for OSHA to inspect each workplace once: | 77 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 282 |
| Construction: | 75 |
| Non-construction: | 207 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$1,676 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$6,600 |
| National average: | \$14,231 |

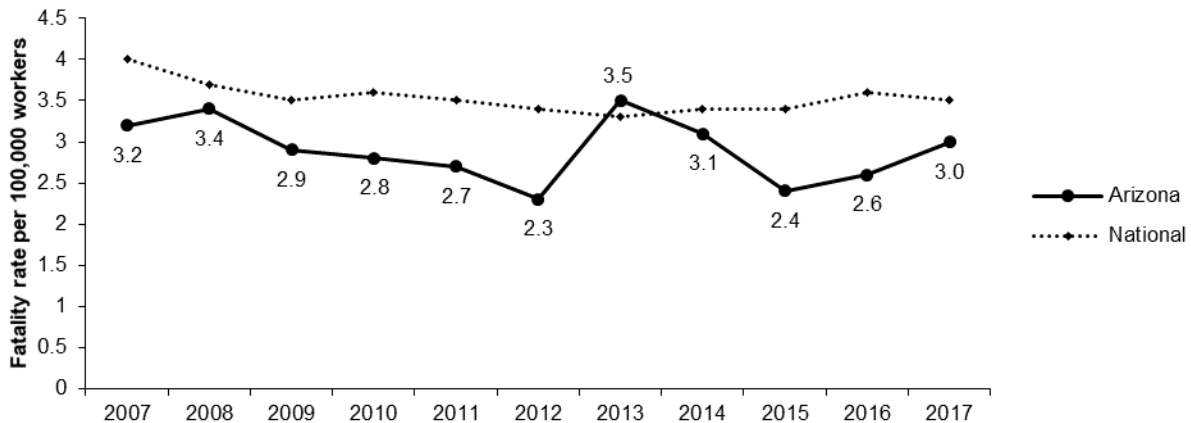


ARIZONA

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 2,747,638 |
| Number of establishments: ¹ | 157,531 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 90 |
| Rate per 100,000 workers: ⁴ | 3.0 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 15 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 56,300 |
| Rate per 100 workers: | 2.9 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 28,900 |
| Rate per 100 workers: | 1.5 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 16 |
| Length of time it would take for OSHA to inspect each workplace once: | 226 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 698 |
| Construction: | 234 |
| Non-construction: | 464 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$1,140 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$4,748 |
| National average: | \$14,231 |

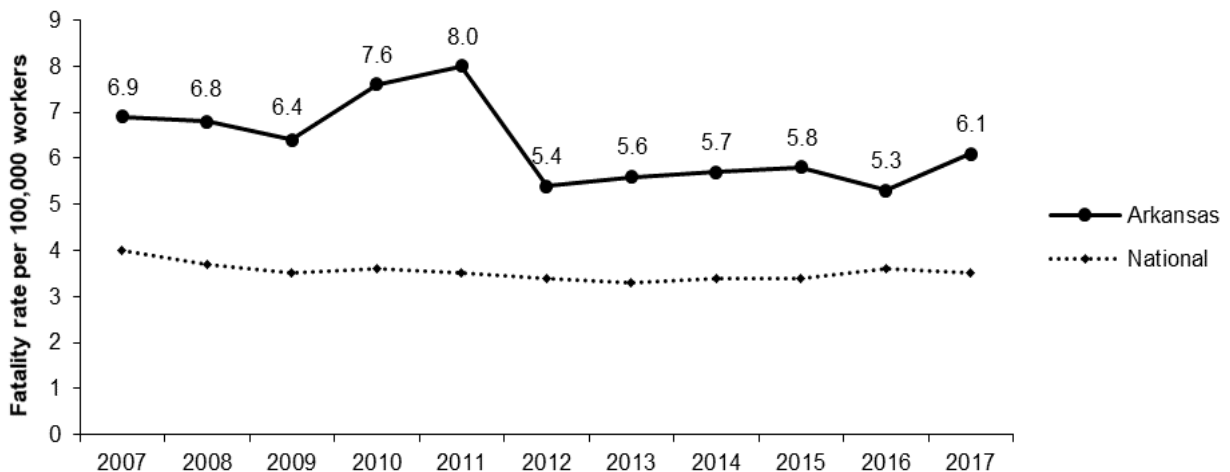


ARKANSAS

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 1,200,542 |
| Number of establishments: ¹ | 89,291 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 176,427 |
| Number of workplace fatalities, 2017: ³ | 76 |
| Rate per 100,000 workers: ⁴ | 6.1 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 41 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 22,000 |
| Rate per 100 workers: | 2.5 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 10,400 |
| Rate per 100 workers: | 1.2 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 7 |
| Length of time it would take for OSHA to inspect each workplace once: | 272 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 317 |
| Construction: | 162 |
| Non-construction: | 155 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,872 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$9,970 |
| National average: | \$14,231 |

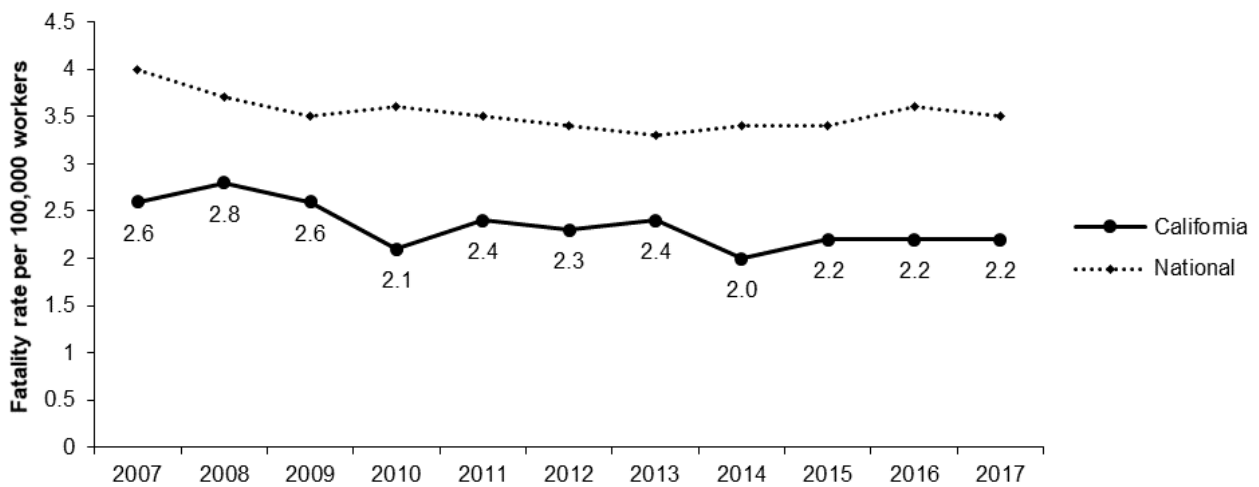


CALIFORNIA

Worker Safety and Health

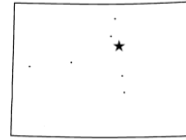


| | |
|--|------------|
| Number of employees: ¹ | 17,019,702 |
| Number of establishments: ¹ | 1,515,798 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 376 |
| Rate per 100,000 workers: ⁴ | 2.2 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 5 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 362,600 |
| Rate per 100 workers: | 3.2 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 219,300 |
| Rate per 100 workers: | 2.0 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 234 |
| Length of time it would take for OSHA to inspect each workplace once: | 185 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 8,192 |
| Construction: | 2,496 |
| Non-construction: | 5,696 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$7,699 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$18,686 |
| National average: | \$14,231 |

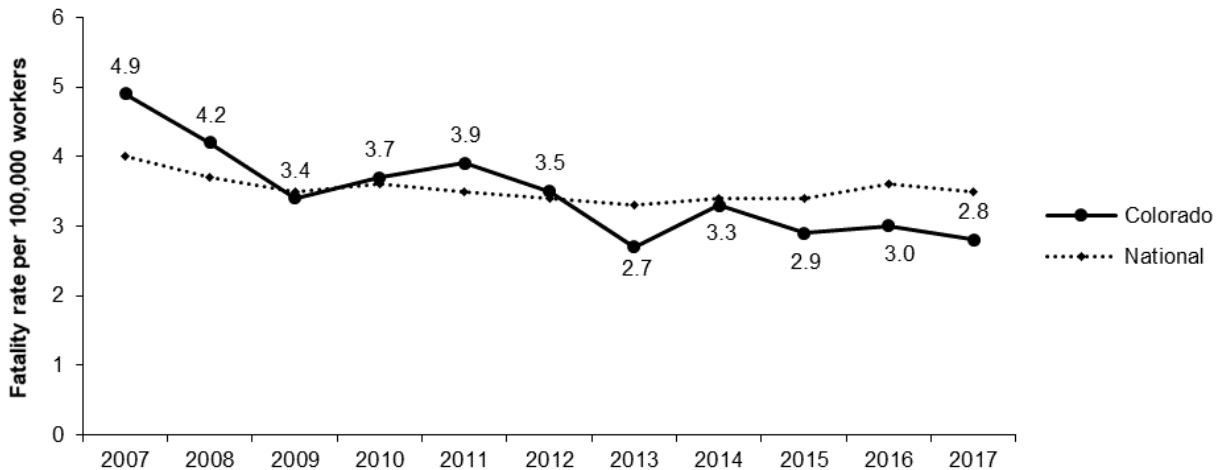


COLORADO

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 2,609,770 |
| Number of establishments: ¹ | 198,720 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 358,524 |
| Number of workplace fatalities, 2017: ³ | 77 |
| Rate per 100,000 workers: ⁴ | 2.8 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 11 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 27 |
| Length of time it would take for OSHA to inspect each workplace once: | 166 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 1,186 |
| Construction: | 770 |
| Non-construction: | 416 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$2,775 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$27,764 |
| National average: | \$14,231 |

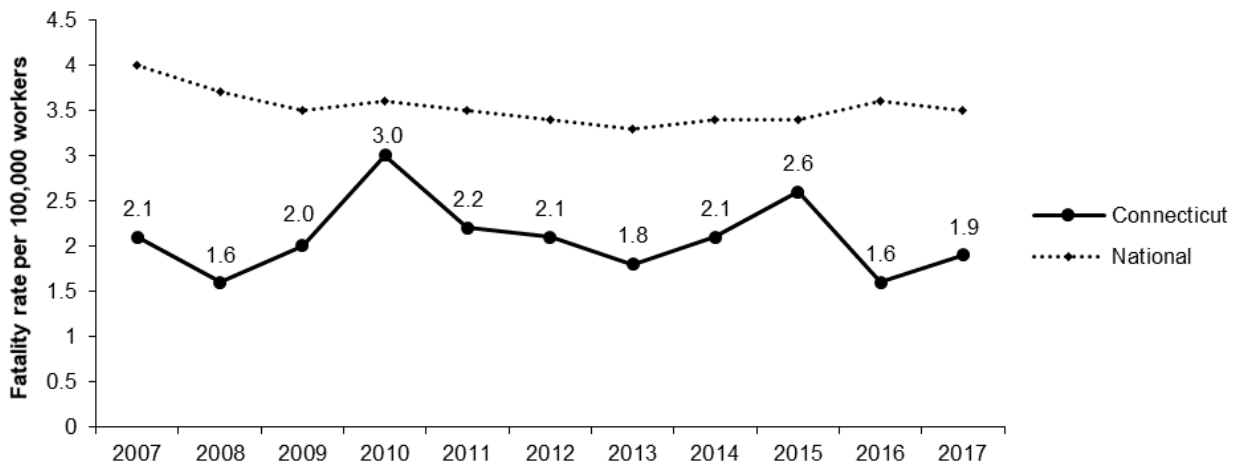


CONNECTICUT

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 1,669,616 |
| Number of establishments: ¹ | 118,612 |
| State or federal OSHA program: ² | Federal |
| Number of workplace fatalities, 2017: ³ | 35 |
| Rate per 100,000 workers: ⁴ | 1.9 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 4 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 37,600 |
| Rate per 100 workers: | 3.2 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 22,200 |
| Rate per 100 workers: | 1.9 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 17 |
| Length of time it would take for OSHA to inspect each workplace once: | 181 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 825 |
| Construction: | 340 |
| Non-construction: | 485 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,108 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$8,497 |
| National average: | \$14,231 |

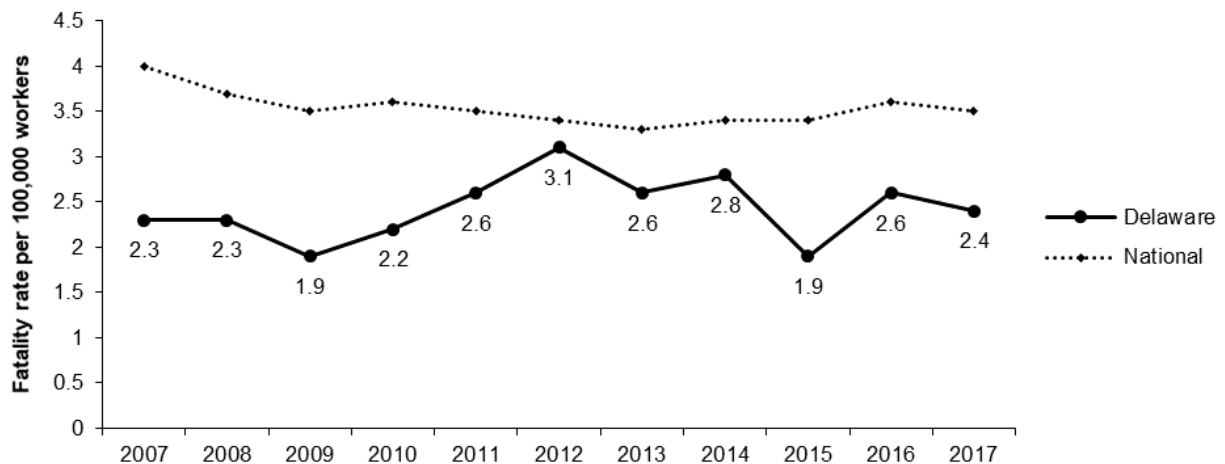


DELAWARE

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 441,873 |
| Number of establishments: ¹ | 31,962 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 56,924 |
| | |
| Number of workplace fatalities, 2017: ³ | 10 |
| Rate per 100,000 workers: ⁴ | 2.4 |
| National rate: | 3.5 |
| | |
| Ranking of state fatality rate, 2017: ⁵ | 7 |
| | |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 6,900 |
| Rate per 100 workers: | 2.3 |
| National rate: | 2.8 |
| | |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 3,700 |
| Rate per 100 workers: | 1.2 |
| National rate: | 1.5 |
| | |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 4 |
| Length of time it would take for OSHA to inspect each workplace once: | 218 |
| | |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 145 |
| Construction: | 93 |
| Non-construction: | 52 |
| | |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,996 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$47,591 |
| National average: | \$14,231 |

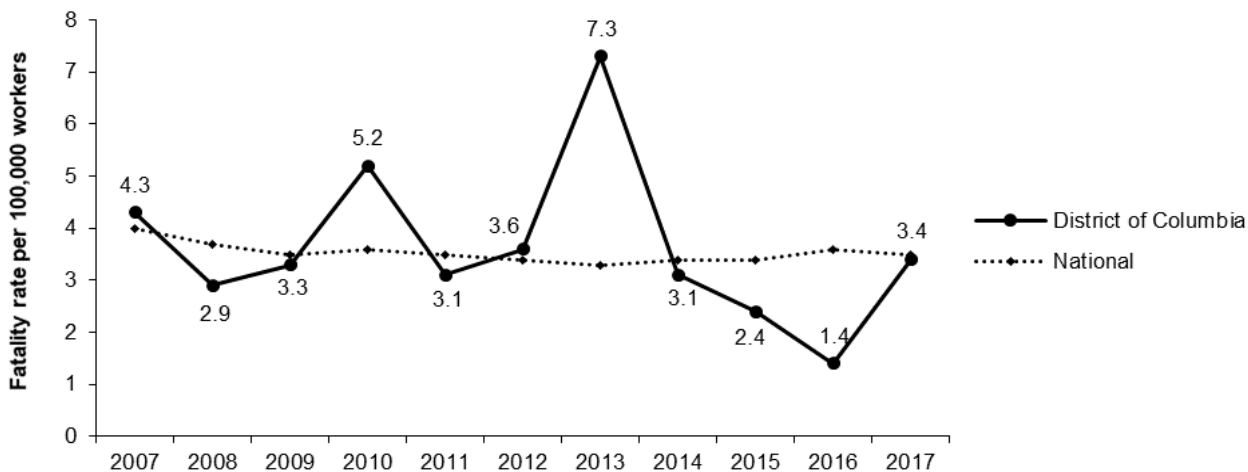


DISTRICT OF COLUMBIA

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 763,847 |
| Number of establishments: ¹ | 39,939 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 39,752 |
| Number of workplace fatalities, 2017: ³ | 13 |
| Rate per 100,000 workers: ⁴ | 3.4 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | N/A |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 6,400 |
| Rate per 100 workers: | 1.5 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 3,200 |
| Rate per 100 workers: | 0.7 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | N/A |
| Length of time it would take for OSHA to inspect each workplace once: | 257 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 155 |
| Construction: | 132 |
| Non-construction: | 23 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,513 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$12,334 |
| National average: | \$14,231 |

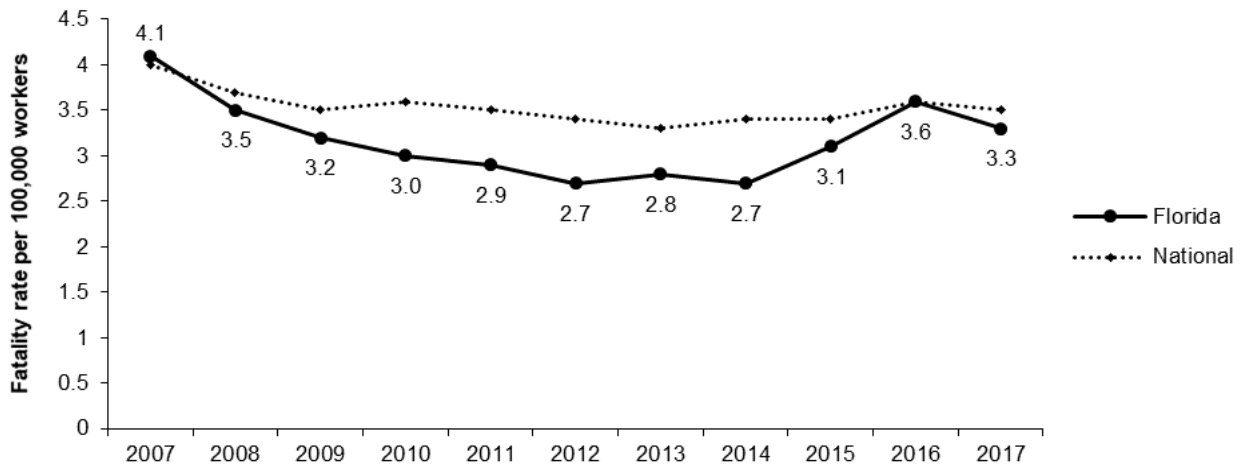


FLORIDA



Worker Safety and Health

| | |
|--|-----------|
| Number of employees: ¹ | 8,494,623 |
| Number of establishments: ¹ | 673,498 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 918,296 |
| Number of workplace fatalities, 2017: ³ | 299 |
| Rate per 100,000 workers: ⁴ | 3.3 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 20 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 58 |
| Length of time it would take for OSHA to inspect each workplace once: | 277 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 2,414 |
| Construction: | 1,338 |
| Non-construction: | 1,076 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,653 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$15,744 |
| National average: | \$14,231 |

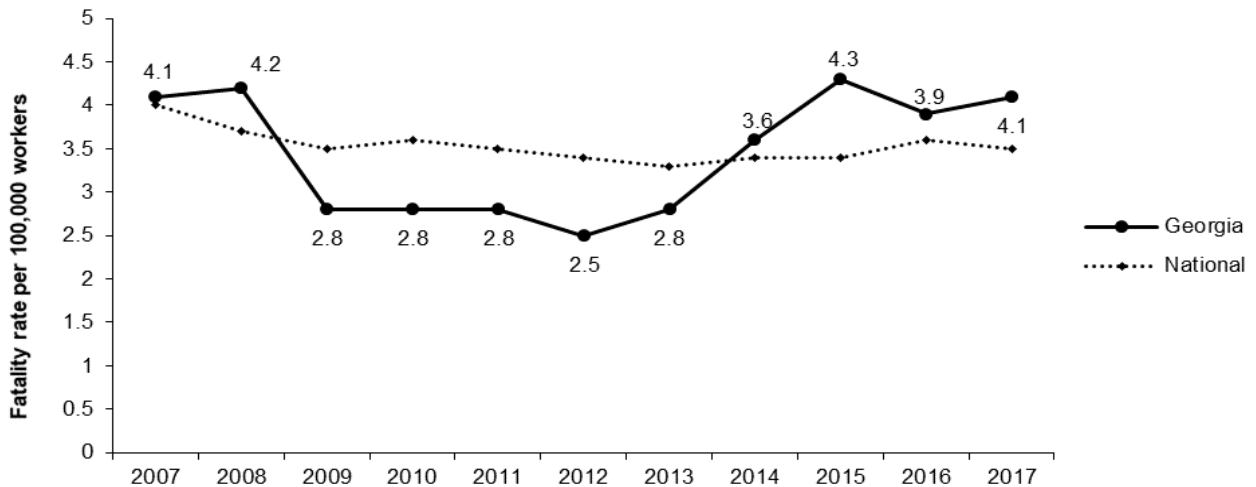


GEORGIA

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 4,346,453 |
| Number of establishments: ¹ | 273,853 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 545,932 |
| Number of workplace fatalities, 2017: ³ | 194 |
| Rate per 100,000 workers: ⁴ | 4.1 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 29 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 78,200 |
| Rate per 100 workers: | 2.6 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 40,700 |
| Rate per 100 workers: | 1.3 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 40 |
| Length of time it would take for OSHA to inspect each workplace once: | 150 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 1,777 |
| Construction: | 853 |
| Non-construction: | 924 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,571 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$15,446 |
| National average: | \$14,231 |

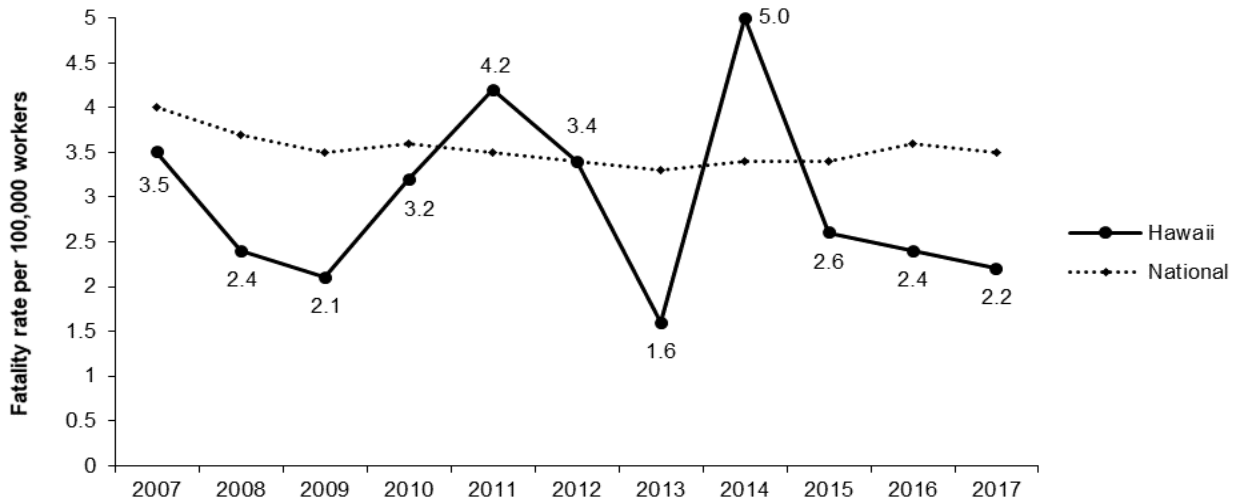


HAWAII



Worker Safety and Health

| | |
|--|----------|
| Number of employees: ¹ | 654,185 |
| Number of establishments: ¹ | 41,078 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 20 |
| Rate per 100,000 workers: ⁴ | 2.2 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 5 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 15,700 |
| Rate per 100 workers: | 3.8 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 9,600 |
| Rate per 100 workers: | 2.3 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 18 |
| Length of time it would take for OSHA to inspect each workplace once: | 53 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 779 |
| Construction: | 460 |
| Non-construction: | 319 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,069 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$23,810 |
| National average: | \$14,231 |

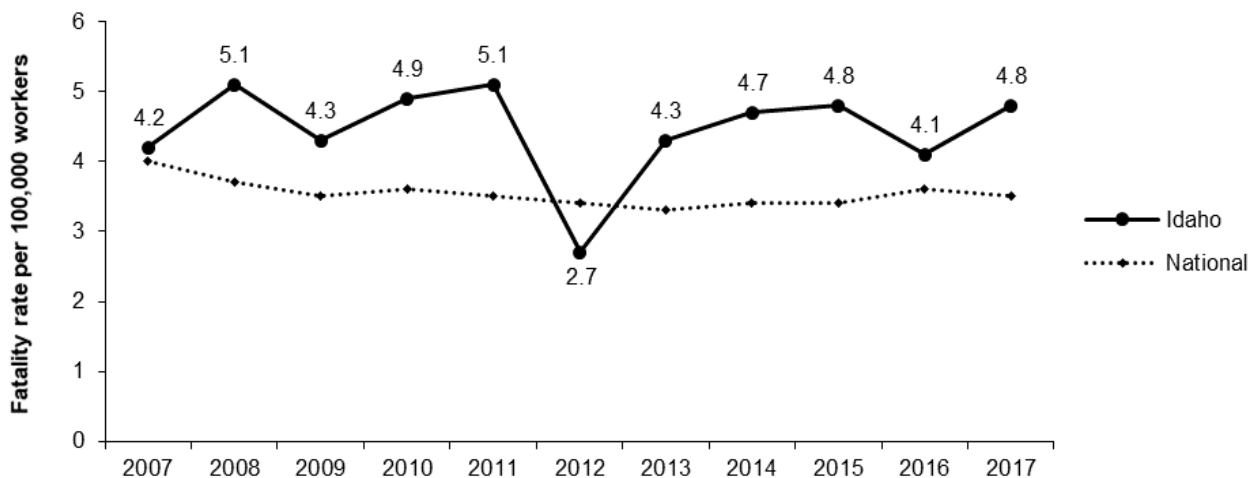


IDAHO

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 706,820 |
| Number of establishments: ¹ | 61,174 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 104,526 |
| | |
| Number of workplace fatalities, 2017: ³ | 37 |
| Rate per 100,000 workers: ⁴ | 4.8 |
| National rate: | 3.5 |
| | |
| Ranking of state fatality rate, 2017: ⁵ | 38 |
| | |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 2.8 |
| | |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 1.5 |
| | |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 8 |
| Length of time it would take for OSHA to inspect each workplace once: | 170 |
| | |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 346 |
| Construction: | 187 |
| Non-construction: | 159 |
| | |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,423 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$8,022 |
| National average: | \$14,231 |

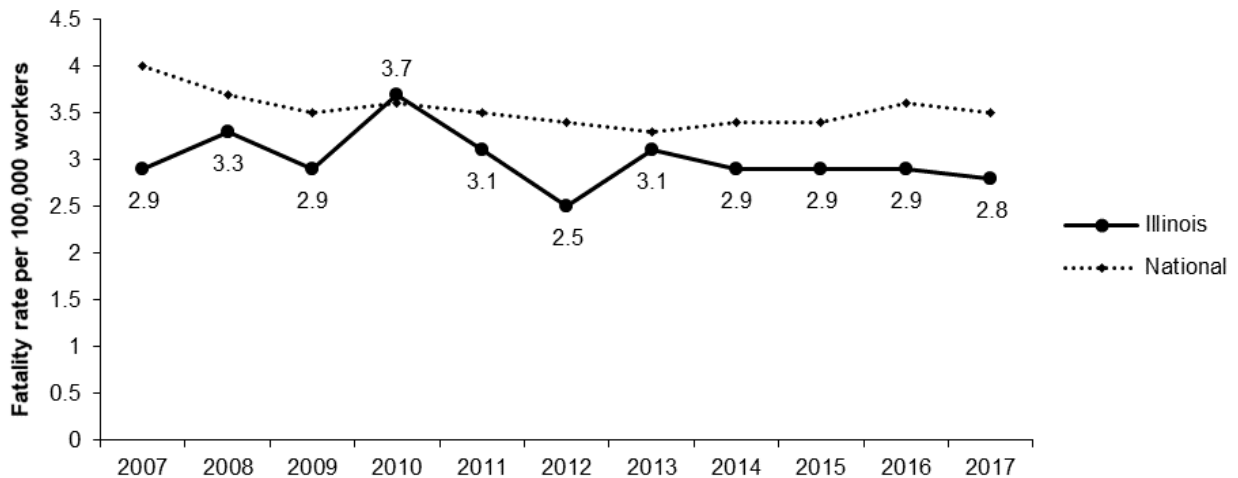


ILLINOIS

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 5,934,549 |
| Number of establishments: ¹ | 362,259 |
| State or federal OSHA program: ² | Federal |
| Number of workplace fatalities, 2017: ³ | 163 |
| Rate per 100,000 workers: ⁴ | 2.8 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 11 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 108,200 |
| Rate per 100 workers: | 2.6 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 59,400 |
| Rate per 100 workers: | 1.4 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 57 |
| Length of time it would take for OSHA to inspect each workplace once: | 144 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 2,512 |
| Construction: | 1,247 |
| Non-construction: | 1,265 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,615 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$8,402 |
| National average: | \$14,231 |

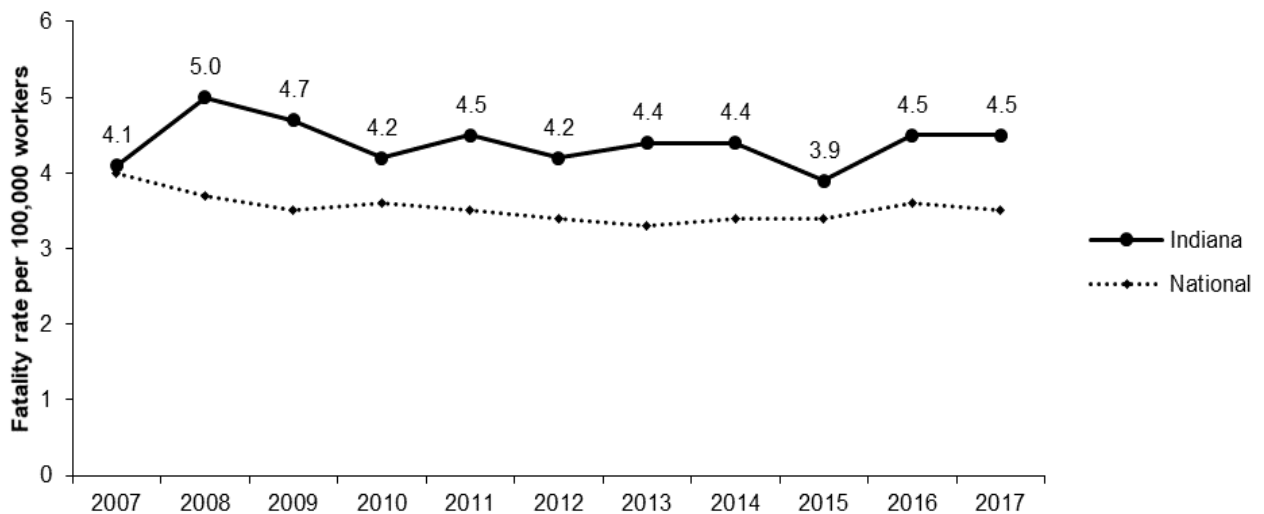


INDIANA

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 3,018,177 |
| Number of establishments: ¹ | 164,727 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 138 |
| Rate per 100,000 workers: ⁴ | 4.5 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 35 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 71,500 |
| Rate per 100 workers: | 3.3 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 36,800 |
| Rate per 100 workers: | 1.7 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 38 |
| Length of time it would take for OSHA to inspect each workplace once: | 135 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 1,221 |
| Construction: | 588 |
| Non-construction: | 633 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$1,278 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$7,149 |
| National average: | \$14,231 |

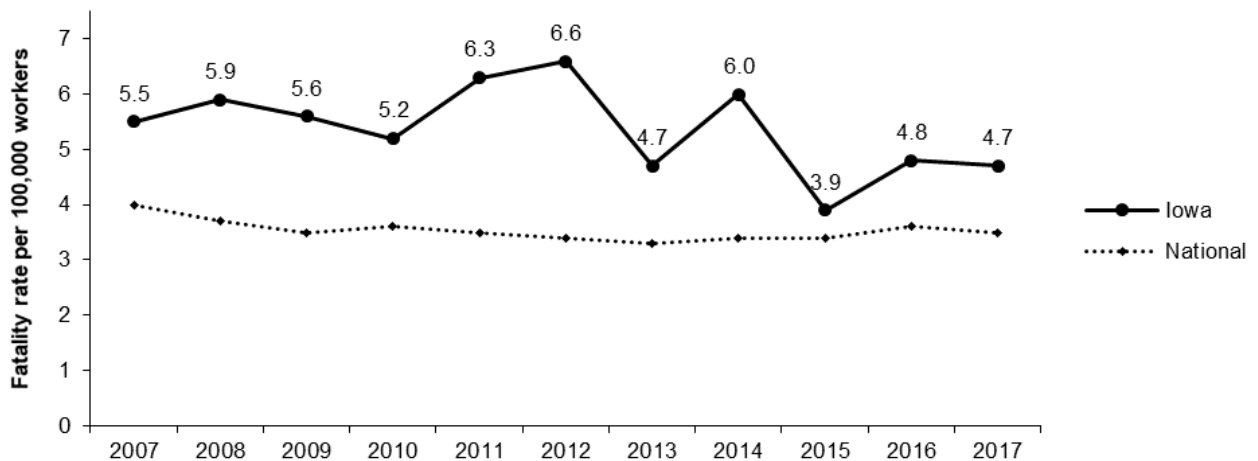


IOWA

Worker Safety and Health

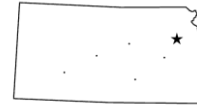


| | |
|--|-----------|
| Number of employees: ¹ | 1,540,435 |
| Number of establishments: ¹ | 101,609 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 72 |
| Rate per 100,000 workers: ⁴ | 4.7 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 36 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 38,100 |
| Rate per 100 workers: | 3.5 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 19,600 |
| Rate per 100 workers: | 1.8 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 22 |
| Length of time it would take for OSHA to inspect each workplace once: | 118 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 863 |
| Construction: | 393 |
| Non-construction: | 470 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$2,646 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$10,709 |
| National average: | \$14,231 |

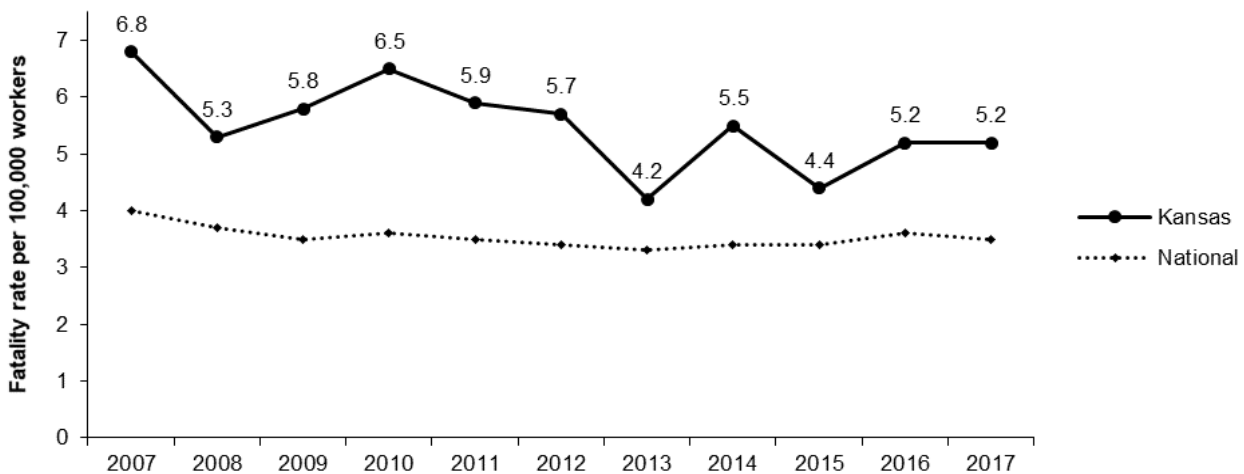


KANSAS

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 1,371,633 |
| Number of establishments: ¹ | 88,815 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 216,639 |
| Number of workplace fatalities, 2017: ³ | 72 |
| Rate per 100,000 workers: ⁴ | 5.2 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 39 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 28,200 |
| Rate per 100 workers: | 3.0 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 15,400 |
| Rate per 100 workers: | 1.6 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 9 |
| Length of time it would take for OSHA to inspect each workplace once: | 137 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 619 |
| Construction: | 324 |
| Non-construction: | 295 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,600 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$50,348 |
| National average: | \$14,231 |

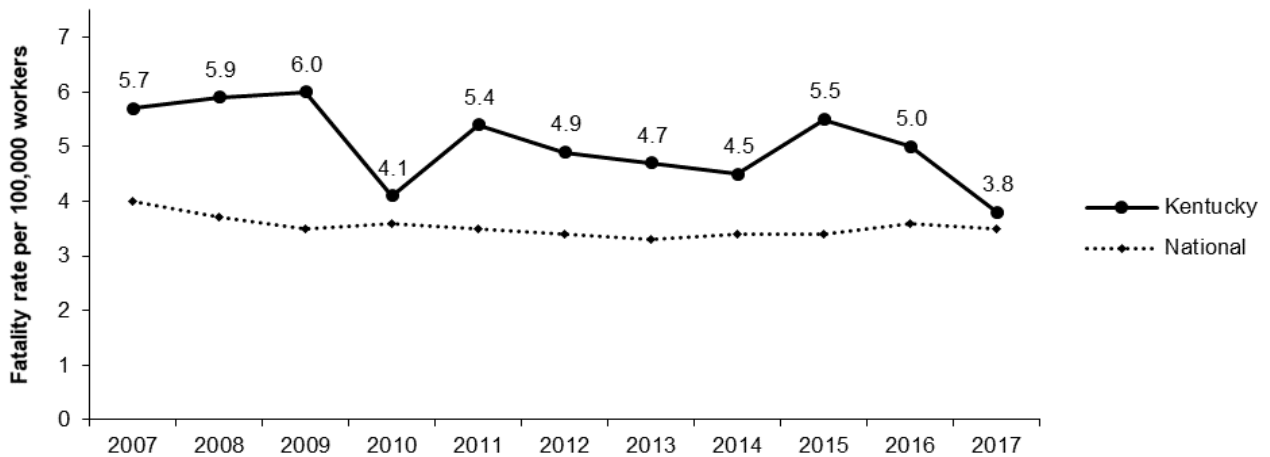


KENTUCKY

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 1,874,455 |
| Number of establishments: ¹ | 121,431 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 70 |
| Rate per 100,000 workers: ⁴ | 3.8 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 27 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 41,200 |
| Rate per 100 workers: | 3.1 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 21,300 |
| Rate per 100 workers: | 1.6 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 34 |
| Length of time it would take for OSHA to inspect each workplace once: | 175 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 693 |
| Construction: | 200 |
| Non-construction: | 493 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,542 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$17,900 |
| National average: | \$14,231 |

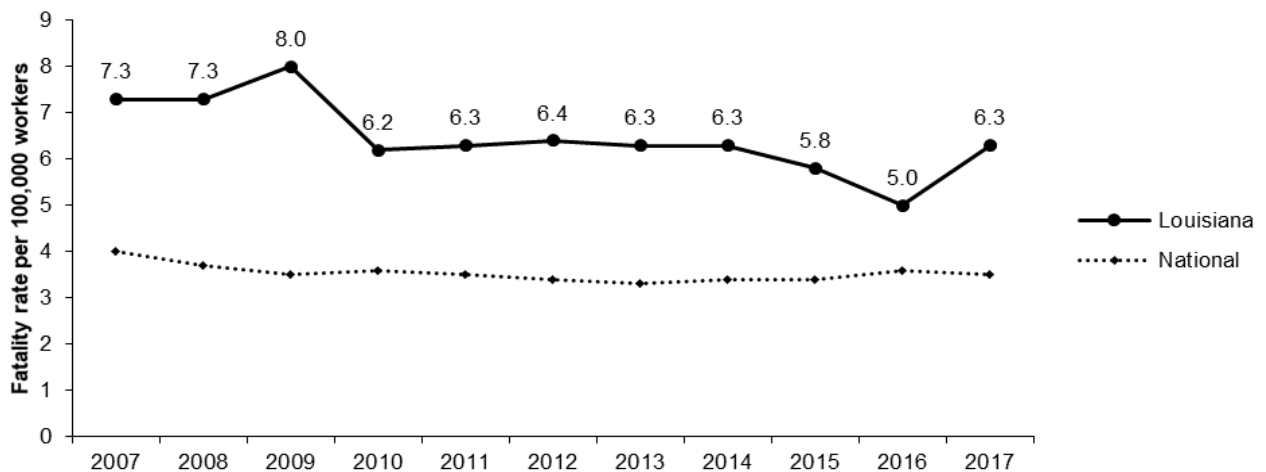


LOUISIANA

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 1,907,721 |
| Number of establishments: ¹ | 130,466 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 278,412 |
| | |
| Number of workplace fatalities, 2017: ³ | 117 |
| Rate per 100,000 workers: ⁴ | 6.3 |
| National rate: | 3.5 |
| | |
| Ranking of state fatality rate, 2017: ⁵ | 43 |
| | |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 25,400 |
| Rate per 100 workers: | 1.9 |
| National rate: | 2.8 |
| | |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 12,500 |
| Rate per 100 workers: | 0.9 |
| National rate: | 1.5 |
| | |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 10 |
| Length of time it would take for OSHA to inspect each workplace once: | 265 |
| | |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 474 |
| Construction: | 235 |
| Non-construction: | 239 |
| | |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,811 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$15,256 |
| National average: | \$14,231 |

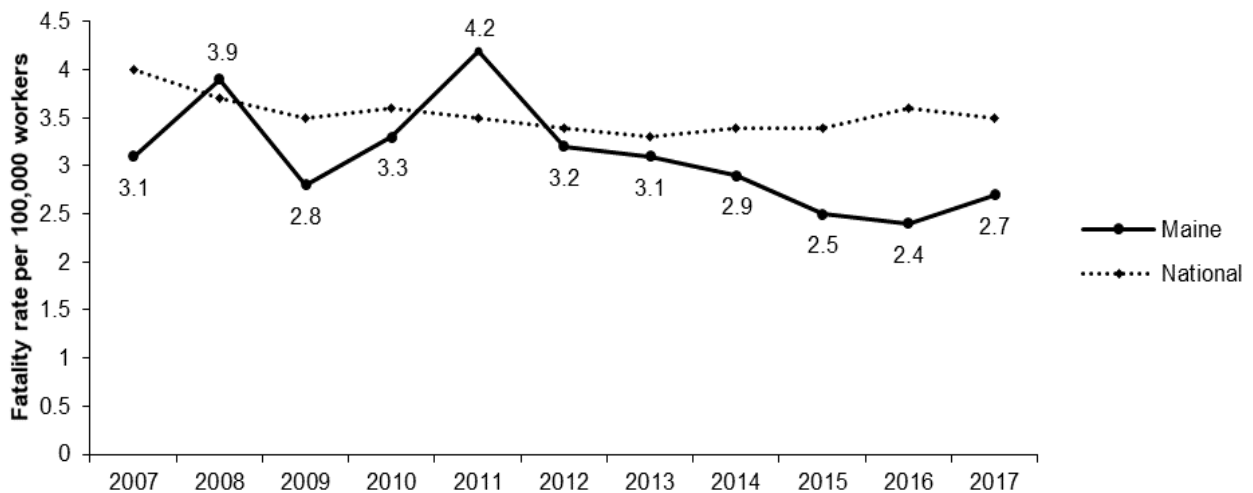


MAINE

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 609,271 |
| Number of establishments: ¹ | 53,934 |
| State or federal OSHA program: ² | Federal |
| Number of workplace fatalities, 2017: ³ | 18 |
| Rate per 100,000 workers: ⁴ | 2.7 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 10 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 19,100 |
| Rate per 100 workers: | 4.8 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 10,600 |
| Rate per 100 workers: | 2.6 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 11 |
| Length of time it would take for OSHA to inspect each workplace once: | 165 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 327 |
| Construction: | 104 |
| Non-construction: | 223 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,440 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$8,084 |
| National average: | \$14,231 |

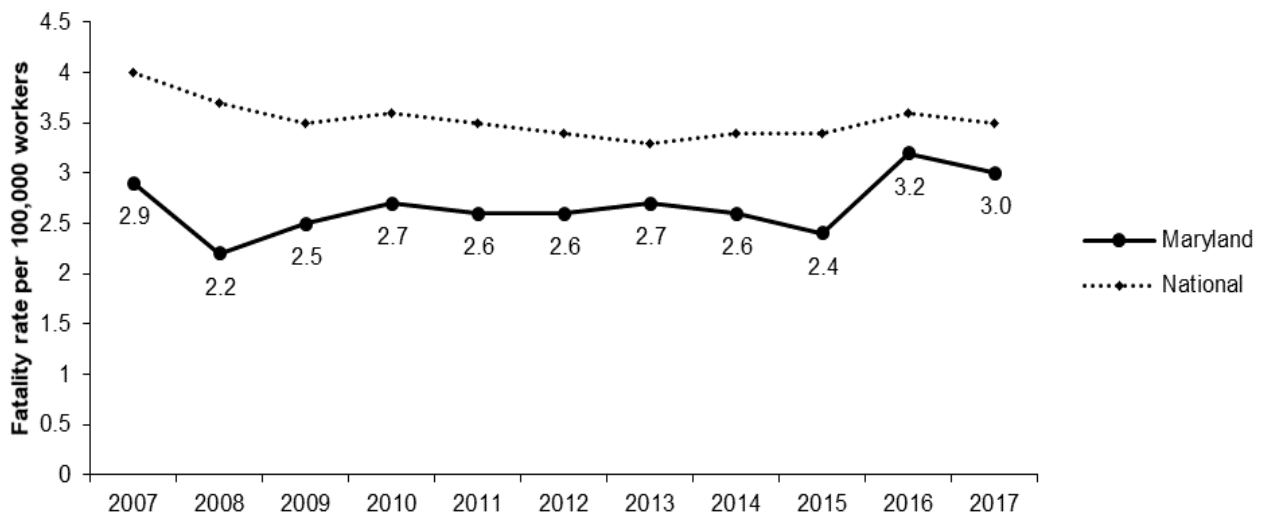


MARYLAND

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 2,653,569 |
| Number of establishments: ¹ | 172,188 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 87 |
| Rate per 100,000 workers: ⁴ | 3.0 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 15 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 46,600 |
| Rate per 100 workers: | 2.6 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 27,900 |
| Rate per 100 workers: | 1.5 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 55 |
| Length of time it would take for OSHA to inspect each workplace once: | 88 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 1,951 |
| Construction: | 1,507 |
| Non-construction: | 444 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$681 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$21,047 |
| National average: | \$14,231 |

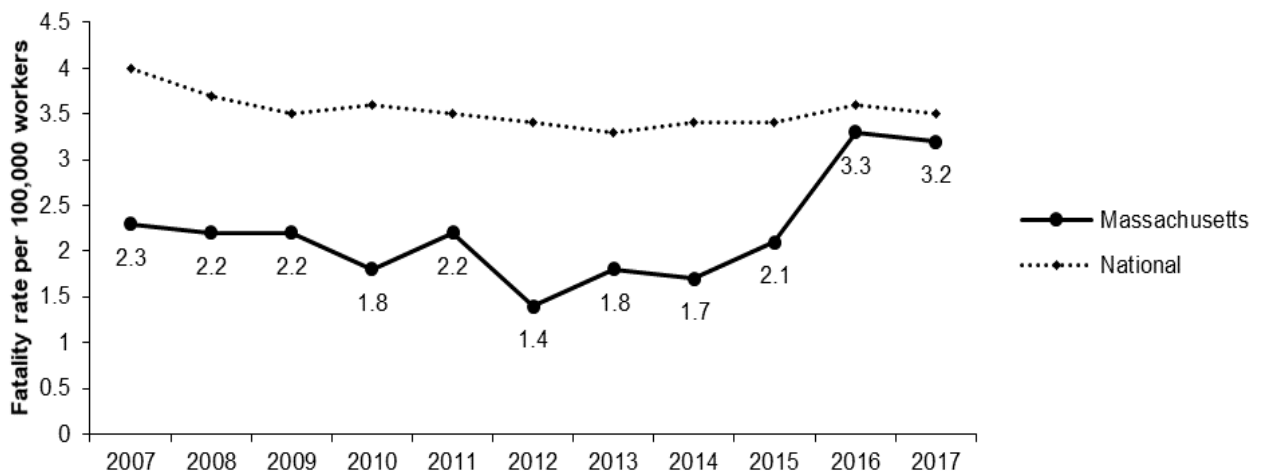


MASSACHUSETTS

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 3,543,383 |
| Number of establishments: ¹ | 252,761 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 382,028 |
| | |
| Number of workplace fatalities, 2017: ³ | 108 |
| Rate per 100,000 workers: ⁴ | 3.2 |
| National rate: | 3.5 |
| | |
| Ranking of state fatality rate, 2017: ⁵ | 18 |
| | |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 65,100 |
| Rate per 100 workers: | 2.7 |
| National rate: | 2.8 |
| | |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 36,700 |
| Rate per 100 workers: | 1.5 |
| National rate: | 1.5 |
| | |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 32 |
| Length of time it would take for OSHA to inspect each workplace once: | 209 |
| | |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 1,176 |
| Construction: | 717 |
| Non-construction: | 459 |
| | |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,597 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$29,562 |
| National average: | \$14,231 |

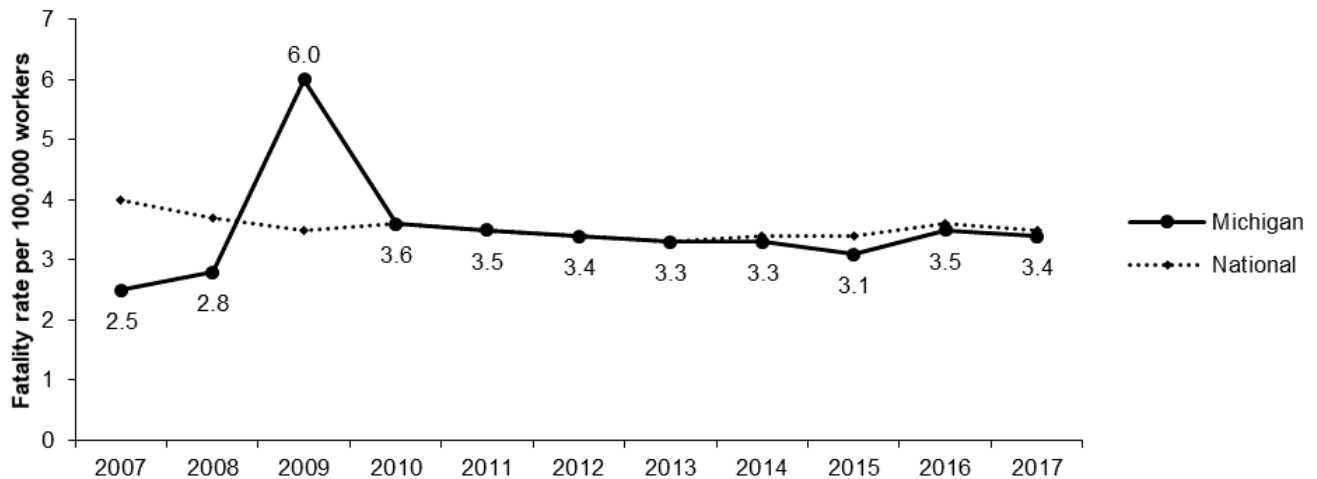


MICHIGAN

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 4,294,711 |
| Number of establishments: ¹ | 244,908 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 153 |
| Rate per 100,000 workers: ⁴ | 3.4 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 22 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 93,900 |
| Rate per 100 workers: | 3.1 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 46,900 |
| Rate per 100 workers: | 1.6 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 60 |
| Length of time it would take for OSHA to inspect each workplace once: | 56 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 4,393 |
| Construction: | 2,336 |
| Non-construction: | 2,057 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$1,179 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$3,888 |
| National average: | \$14,231 |

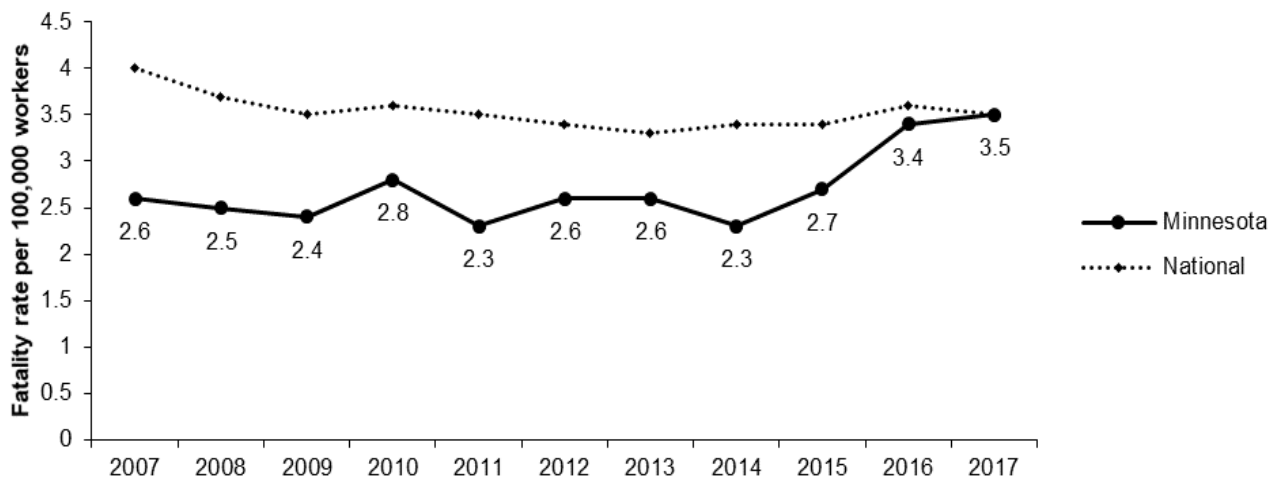


MINNESOTA

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 2,856,105 |
| Number of establishments: ¹ | 167,815 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 101 |
| Rate per 100,000 workers: ⁴ | 3.5 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 23 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 63,300 |
| Rate per 100 workers: | 3.2 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 31,800 |
| Rate per 100 workers: | 1.6 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 39 |
| Length of time it would take for OSHA to inspect each workplace once: | 91 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 1,851 |
| Construction: | 607 |
| Non-construction: | 1,244 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$987 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$35,816 |
| National average: | \$14,231 |

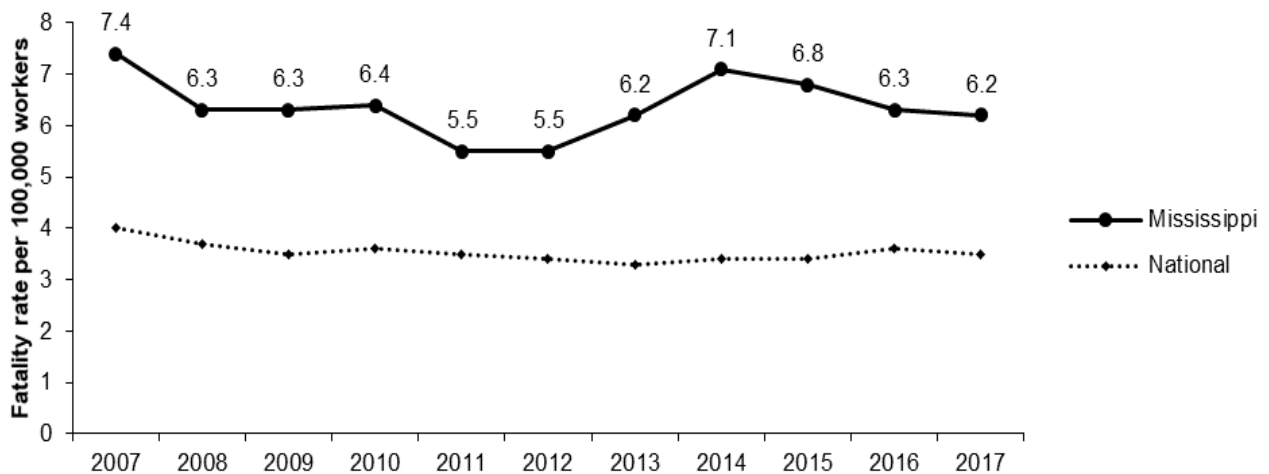


MISSISSIPPI

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 1,128,498 |
| Number of establishments: ¹ | 73,073 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 209,065 |
| Number of workplace fatalities, 2017: ³ | 90 |
| Rate per 100,000 workers: ⁴ | 6.2 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 42 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 11 |
| Length of time it would take for OSHA to inspect each workplace once: | 167 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 421 |
| Construction: | 172 |
| Non-construction: | 249 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,246 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$14,385 |
| National average: | \$14,231 |

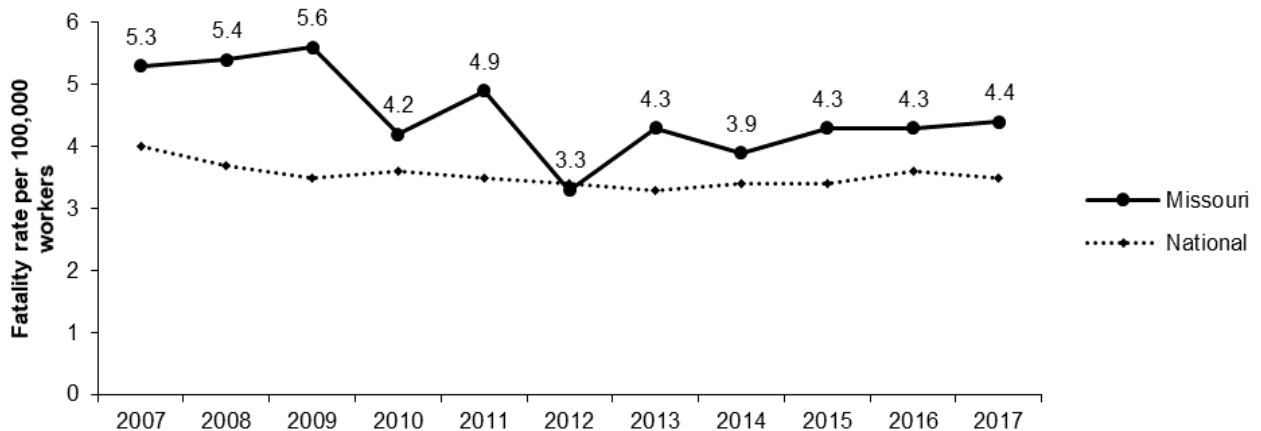


MISSOURI

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 2,781,242 |
| Number of establishments: ¹ | 205,150 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 360,133 |
| | |
| Number of workplace fatalities, 2017: ³ | 125 |
| Rate per 100,000 workers: ⁴ | 4.4 |
| National rate: | 3.5 |
| | |
| Ranking of state fatality rate, 2017: ⁵ | 33 |
| | |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 50,600 |
| Rate per 100 workers: | 2.6 |
| National rate: | 2.8 |
| | |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 24,700 |
| Rate per 100 workers: | 1.3 |
| National rate: | 1.5 |
| | |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 24 |
| Length of time it would take for OSHA to inspect each workplace once: | 172 |
| | |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 1,144 |
| Construction: | 675 |
| Non-construction: | 469 |
| | |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,630 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$16,752 |
| National average: | \$14,231 |

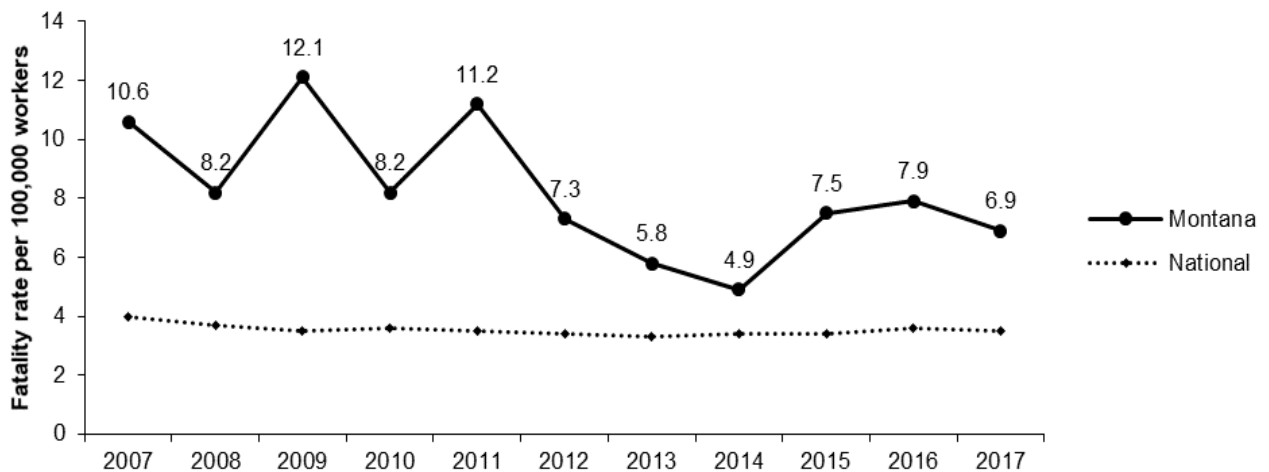


MONTANA

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 459,431 |
| Number of establishments: ¹ | 48,777 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 70,742 |
| Number of workplace fatalities, 2017: ³ | 32 |
| Rate per 100,000 workers: ⁴ | 6.9 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 44 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 12,700 |
| Rate per 100 workers: | 4.3 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 6,000 |
| Rate per 100 workers: | 2.0 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 6 |
| Length of time it would take for OSHA to inspect each workplace once: | 176 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 269 |
| Construction: | 130 |
| Non-construction: | 139 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$2,082 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$3,880 |
| National average: | \$14,231 |

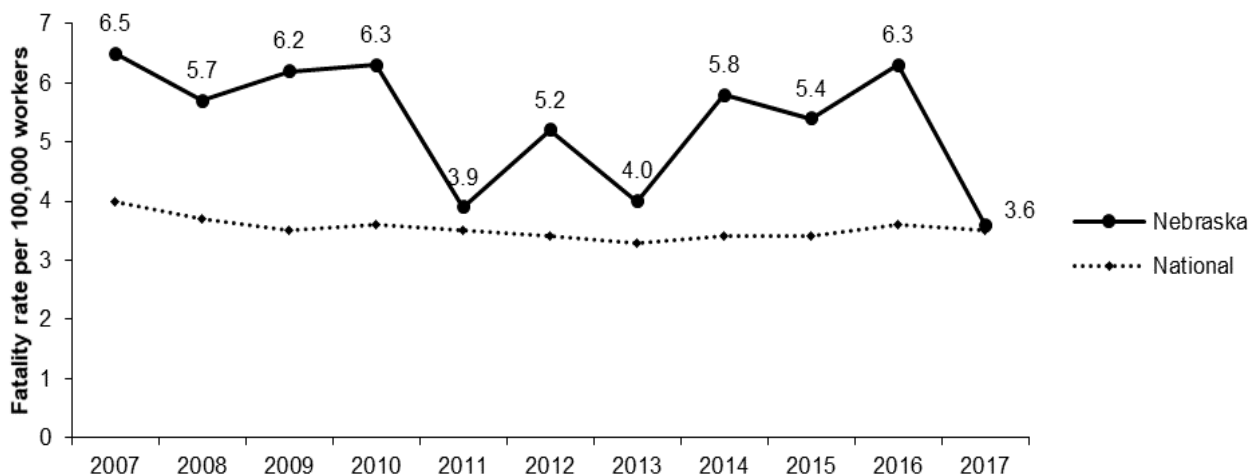


NEBRASKA

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 972,764 |
| Number of establishments: ¹ | 72,292 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 144,451 |
| | |
| Number of workplace fatalities, 2017: ³ | 35 |
| Rate per 100,000 workers: ⁴ | 3.6 |
| National rate: | 3.5 |
| | |
| Ranking of state fatality rate, 2017: ⁵ | 26 |
| | |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 20,500 |
| Rate per 100 workers: | 3.0 |
| National rate: | 2.8 |
| | |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 10,600 |
| Rate per 100 workers: | 1.6 |
| National rate: | 1.5 |
| | |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 10 |
| Length of time it would take for OSHA to inspect each workplace once: | 188 |
| | |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 370 |
| Construction: | 199 |
| Non-construction: | 171 |
| | |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,650 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$12,679 |
| National average: | \$14,231 |

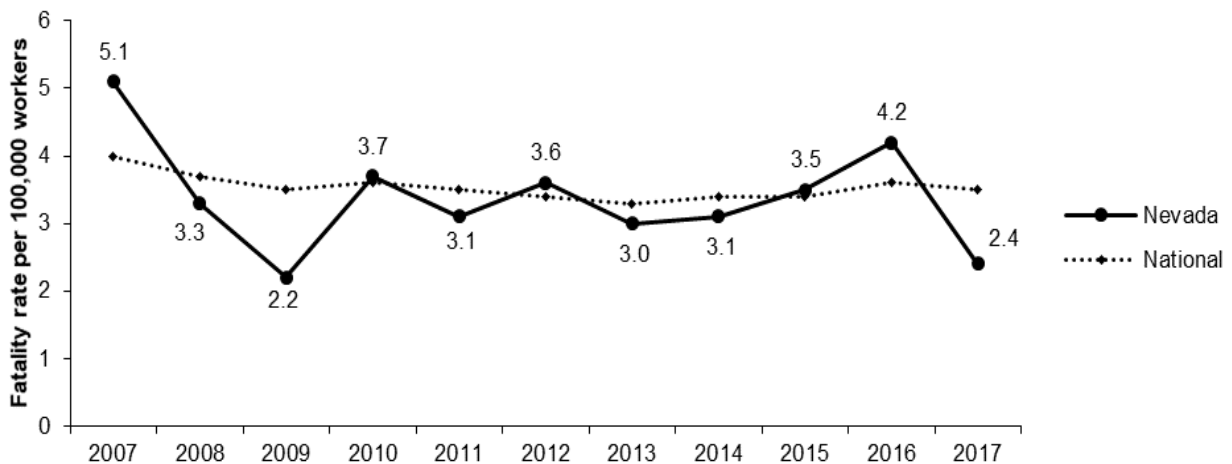


NEVADA

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 1,326,151 |
| Number of establishments: ¹ | 79,585 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 32 |
| Rate per 100,000 workers: ⁴ | 2.4 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 7 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 35,700 |
| Rate per 100 workers: | 3.7 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 18,900 |
| Rate per 100 workers: | 2.0 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 36 |
| Length of time it would take for OSHA to inspect each workplace once: | 78 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 1,016 |
| Construction: | 400 |
| Non-construction: | 616 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$1,980 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$8,644 |
| National average: | \$14,231 |

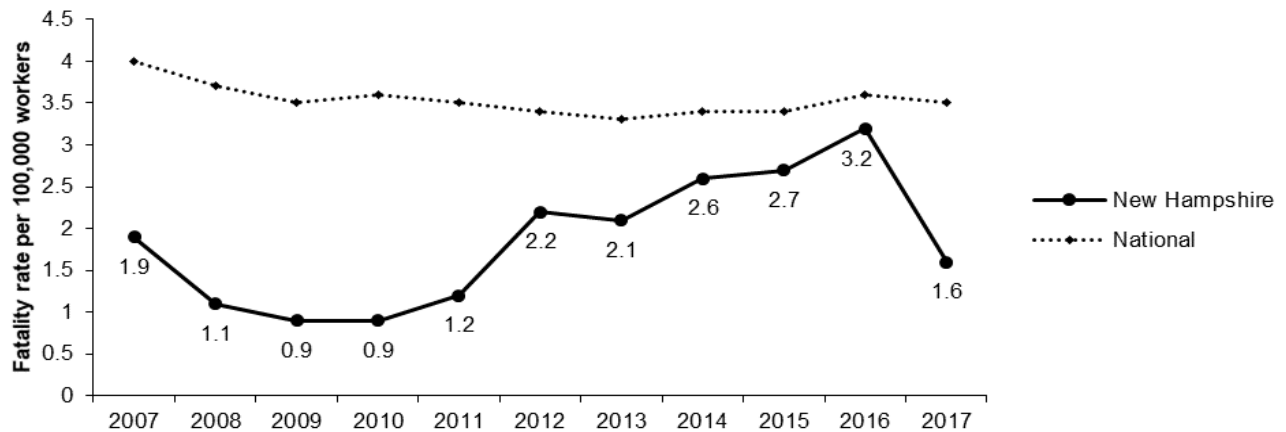


NEW HAMPSHIRE

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 653,487 |
| Number of establishments: ¹ | 51,894 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 76,879 |
| | |
| Number of workplace fatalities, 2017: ³ | 11 |
| Rate per 100,000 workers: ⁴ | 1.6 |
| National rate: | 3.5 |
| | |
| Ranking of state fatality rate, 2017: ⁵ | 1 |
| | |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 2.8 |
| | |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 1.5 |
| | |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 8 |
| Length of time it would take for OSHA to inspect each workplace once: | 177 |
| | |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 281 |
| Construction: | 157 |
| Non-construction: | 124 |
| | |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,849 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$17,764 |
| National average: | \$14,231 |

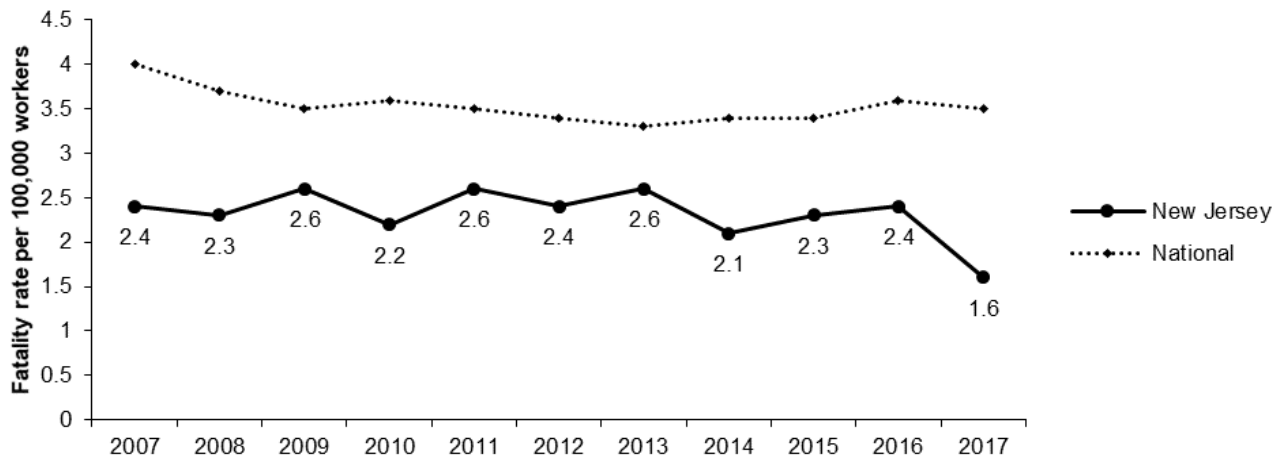


NEW JERSEY

Worker Safety and Health

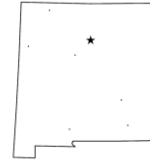


| | |
|--|-----------|
| Number of employees: ¹ | 4,006,799 |
| Number of establishments: ¹ | 265,159 |
| State or federal OSHA program: ² | Federal |
| Number of workplace fatalities, 2017: ³ | 69 |
| Rate per 100,000 workers: ⁴ | 1.6 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 1 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 71,700 |
| Rate per 100 workers: | 2.6 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 42,100 |
| Rate per 100 workers: | 1.5 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 51 |
| Length of time it would take for OSHA to inspect each workplace once: | 114 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 2,326 |
| Construction: | 959 |
| Non-construction: | 1,367 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,818 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$10,438 |
| National average: | \$14,231 |

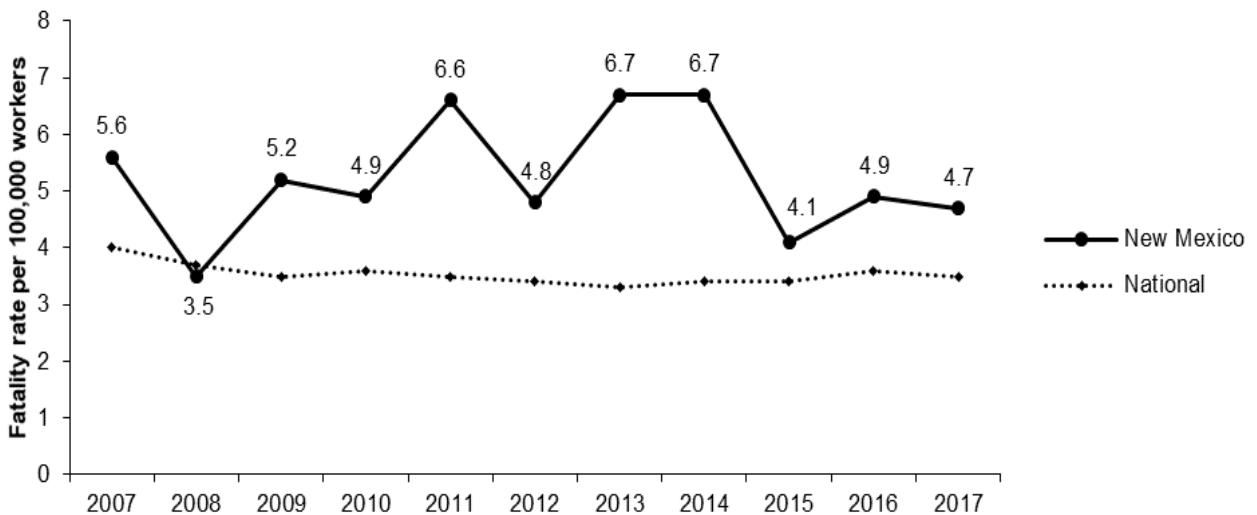


NEW MEXICO

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 810,516 |
| Number of establishments: ¹ | 58,104 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 44 |
| Rate per 100,000 workers: ⁴ | 4.7 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 36 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 14,300 |
| Rate per 100 workers: | 2.7 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 6,700 |
| Rate per 100 workers: | 1.3 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 8 |
| Length of time it would take for OSHA to inspect each workplace once: | 246 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 236 |
| Construction: | 65 |
| Non-construction: | 171 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$1,924 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$2,359 |
| National average: | \$14,231 |

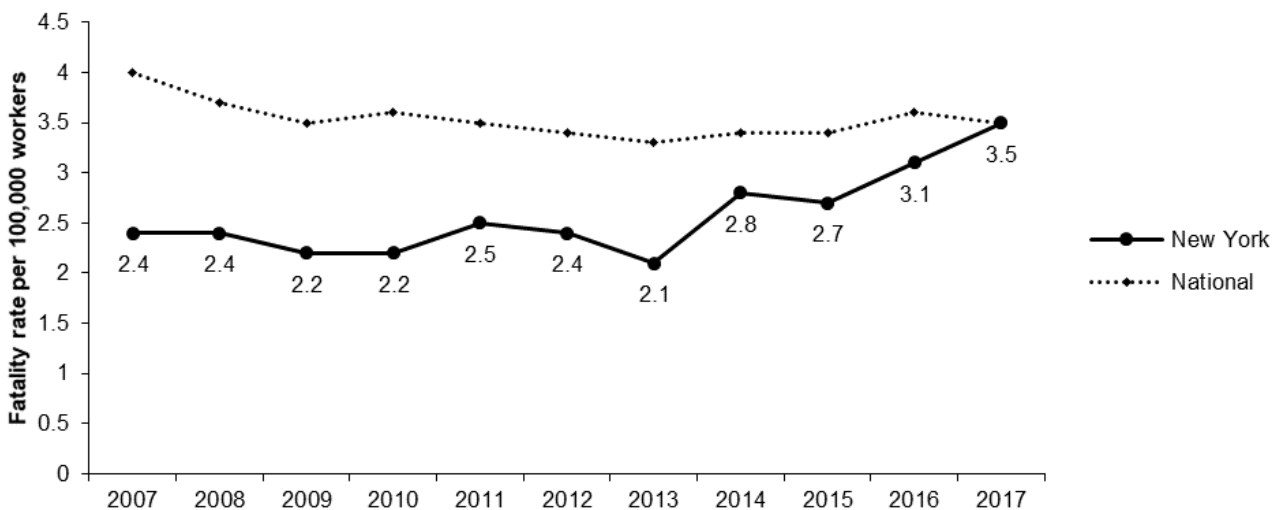


NEW YORK

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 9,276,868 |
| Number of establishments: ¹ | 637,802 |
| State or federal OSHA program: ² | Federal |
| Number of workplace fatalities, 2017: ³ | 313 |
| Rate per 100,000 workers: ⁴ | 3.5 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 23 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 138,600 |
| Rate per 100 workers: | 2.2 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 78,400 |
| Rate per 100 workers: | 1.3 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 95 |
| Length of time it would take for OSHA to inspect each workplace once: | 147 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 4,345 |
| Construction: | 1,891 |
| Non-construction: | 2,454 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,723 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$12,304 |
| National average: | \$14,231 |

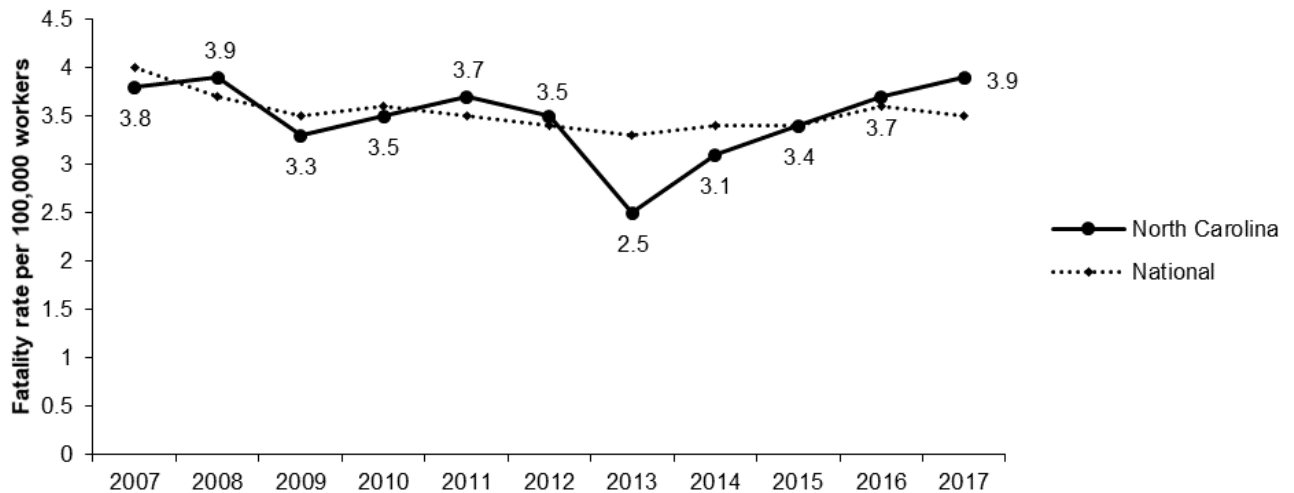


NORTH CAROLINA

Worker Safety and Health

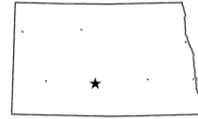


| | |
|--|-----------|
| Number of employees: ¹ | 4,330,606 |
| Number of establishments: ¹ | 273,334 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 183 |
| Rate per 100,000 workers: ⁴ | 3.9 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 28 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 70,700 |
| Rate per 100 workers: | 2.3 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 38,400 |
| Rate per 100 workers: | 1.3 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 97 |
| Length of time it would take for OSHA to inspect each workplace once: | 108 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 2,532 |
| Construction: | 1,236 |
| Non-construction: | 1,296 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$1,772 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$5,469 |
| National average: | \$14,231 |

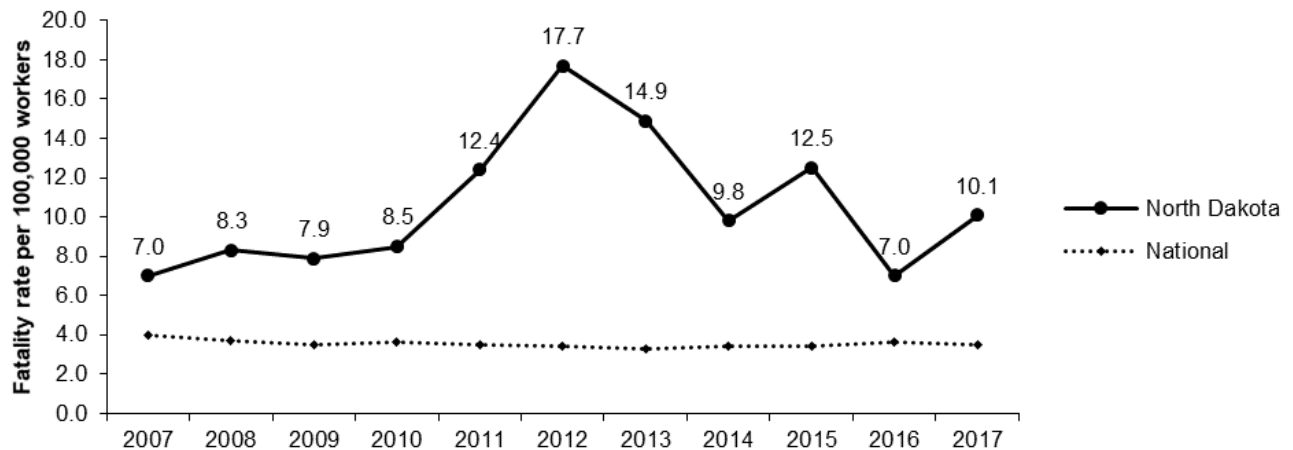


NORTH DAKOTA

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 414,038 |
| Number of establishments: ¹ | 31,917 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 61,448 |
| Number of workplace fatalities, 2017: ³ | 38 |
| Rate per 100,000 workers: ⁴ | 10.1 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 49 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 7 |
| Length of time it would take for OSHA to inspect each workplace once: | 92 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 330 |
| Construction: | 171 |
| Non-construction: | 159 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,683 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$16,429 |
| National average: | \$14,231 |

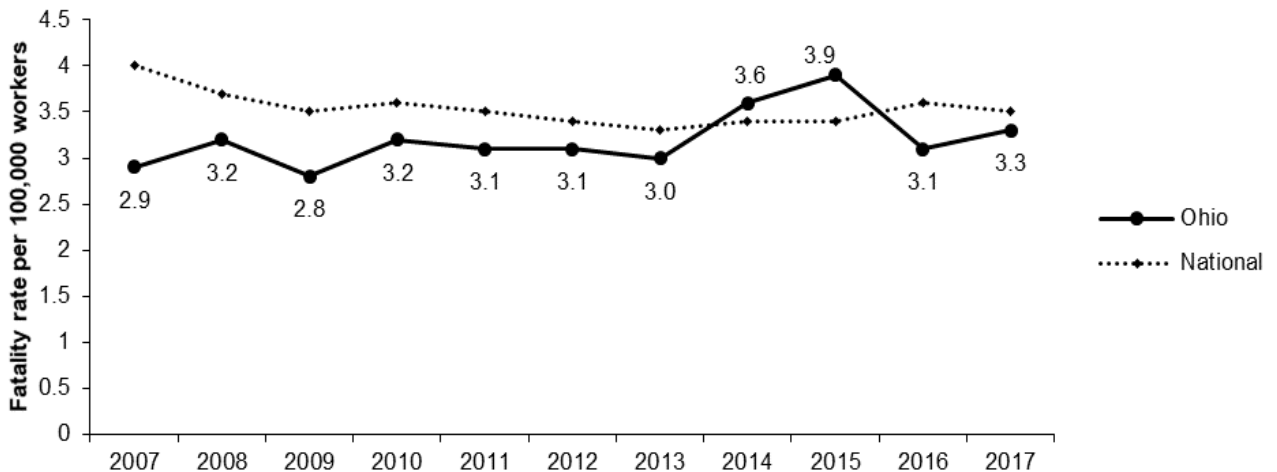


OHIO

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 5,364,626 |
| Number of establishments: ¹ | 296,022 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 639,524 |
| Number of workplace fatalities, 2017: ³ | 174 |
| Rate per 100,000 workers: ⁴ | 3.3 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 20 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 101,500 |
| Rate per 100 workers: | 2.6 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 49,000 |
| Rate per 100 workers: | 1.3 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 54 |
| Length of time it would take for OSHA to inspect each workplace once: | 127 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 2,232 |
| Construction: | 1,112 |
| Non-construction: | 1,120 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$4,129 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$24,706 |
| National average: | \$14,231 |

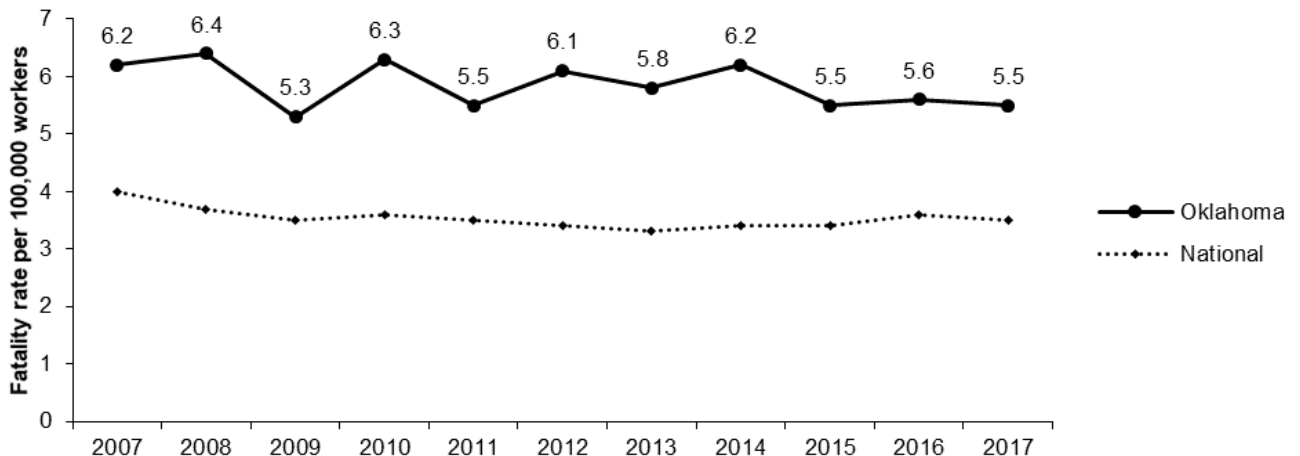


OKLAHOMA

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 1,581,198 |
| Number of establishments: ¹ | 110,316 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 272,457 |
| | |
| Number of workplace fatalities, 2017: ³ | 91 |
| Rate per 100,000 workers: ⁴ | 5.5 |
| National rate: | 3.5 |
| | |
| Ranking of state fatality rate, 2017: ⁵ | 40 |
| | |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 2.8 |
| | |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 1.5 |
| | |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 13 |
| Length of time it would take for OSHA to inspect each workplace once: | 191 |
| | |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 554 |
| Construction: | 255 |
| Non-construction: | 299 |
| | |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,070 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$14,270 |
| National average: | \$14,231 |

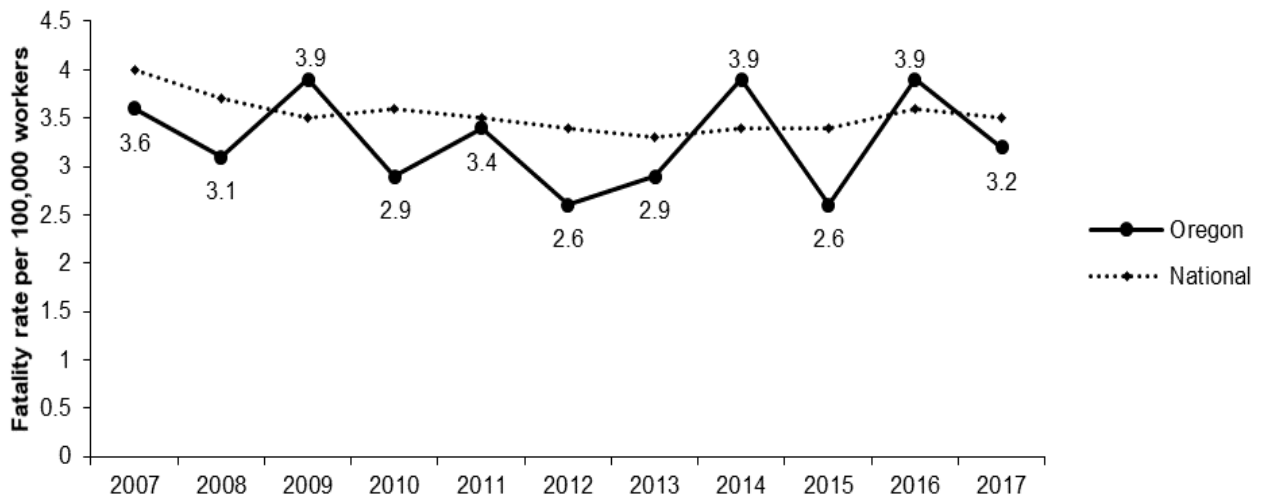


OREGON

Worker Safety and Health

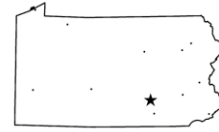


| | |
|--|-----------|
| Number of employees: ¹ | 1,883,407 |
| Number of establishments: ¹ | 149,973 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 60 |
| Rate per 100,000 workers: ⁴ | 3.2 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 18 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 46,500 |
| Rate per 100 workers: | 3.8 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 27,000 |
| Rate per 100 workers: | 2.2 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 79 |
| Length of time it would take for OSHA to inspect each workplace once: | 44 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 3,411 |
| Construction: | 1,221 |
| Non-construction: | 2,190 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$587 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$2,271 |
| National average: | \$14,231 |

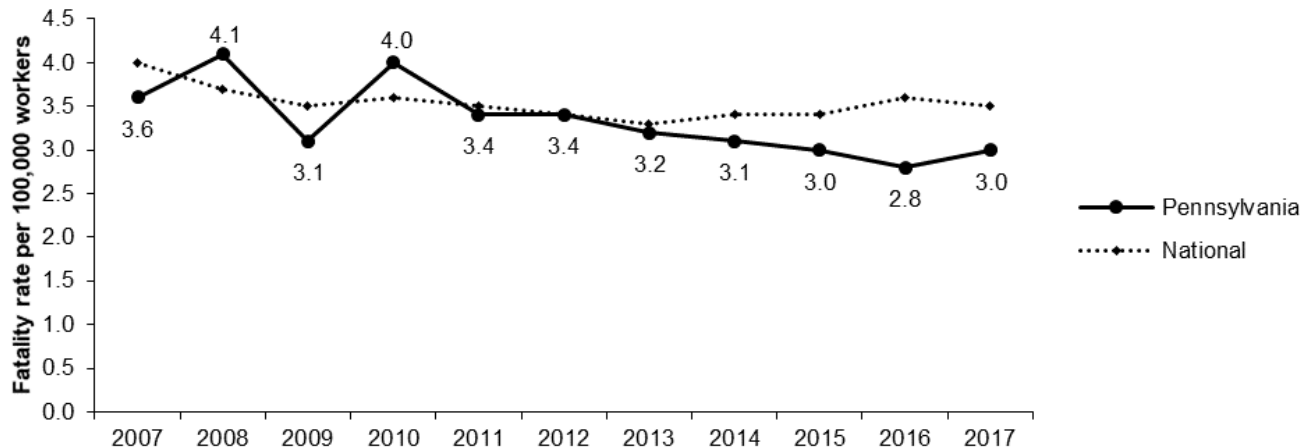


PENNSYLVANIA

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 5,799,123 |
| Number of establishments: ¹ | 354,024 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 577,493 |
| Number of workplace fatalities, 2017: ³ | 172 |
| Rate per 100,000 workers: ⁴ | 3.0 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 15 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 132,500 |
| Rate per 100 workers: | 3.1 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 71,000 |
| Rate per 100 workers: | 1.7 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 49 |
| Length of time it would take for OSHA to inspect each workplace once: | 155 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 2,210 |
| Construction: | 1,052 |
| Non-construction: | 1,158 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,634 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$19,238 |
| National average: | \$14,231 |

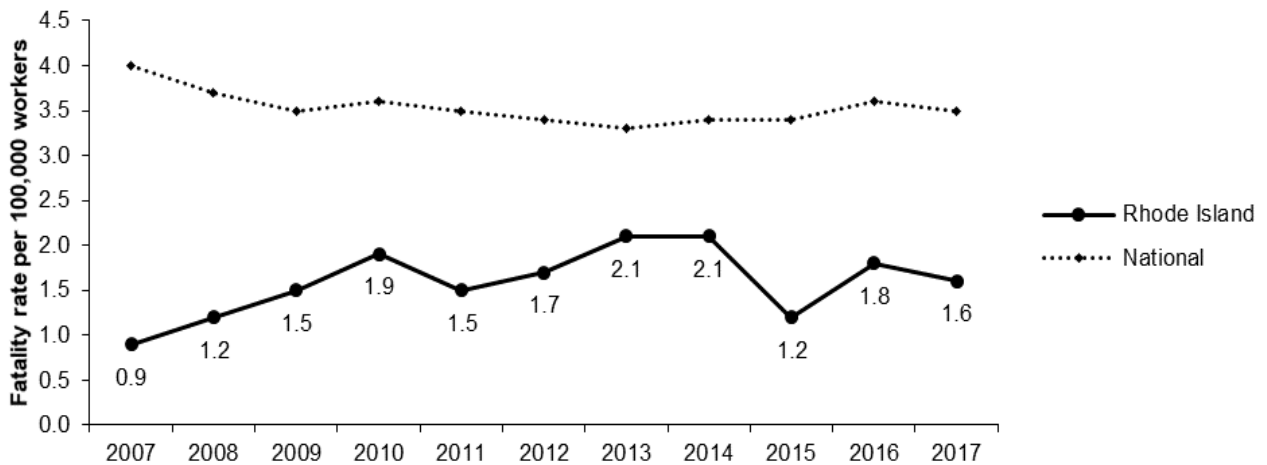


RHODE ISLAND

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 477,362 |
| Number of establishments: ¹ | 37,355 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 48,492 |
| | |
| Number of workplace fatalities, 2017: ³ | 8 |
| Rate per 100,000 workers: ⁴ | 1.6 |
| National rate: | 3.5 |
| | |
| Ranking of state fatality rate, 2017: ⁵ | 1 |
| | |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 2.8 |
| | |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 1.5 |
| | |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 6 |
| Length of time it would take for OSHA to inspect each workplace once: | 134 |
| | |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 275 |
| Construction: | 167 |
| Non-construction: | 108 |
| | |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,008 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$0 |
| National average: | \$14,231 |

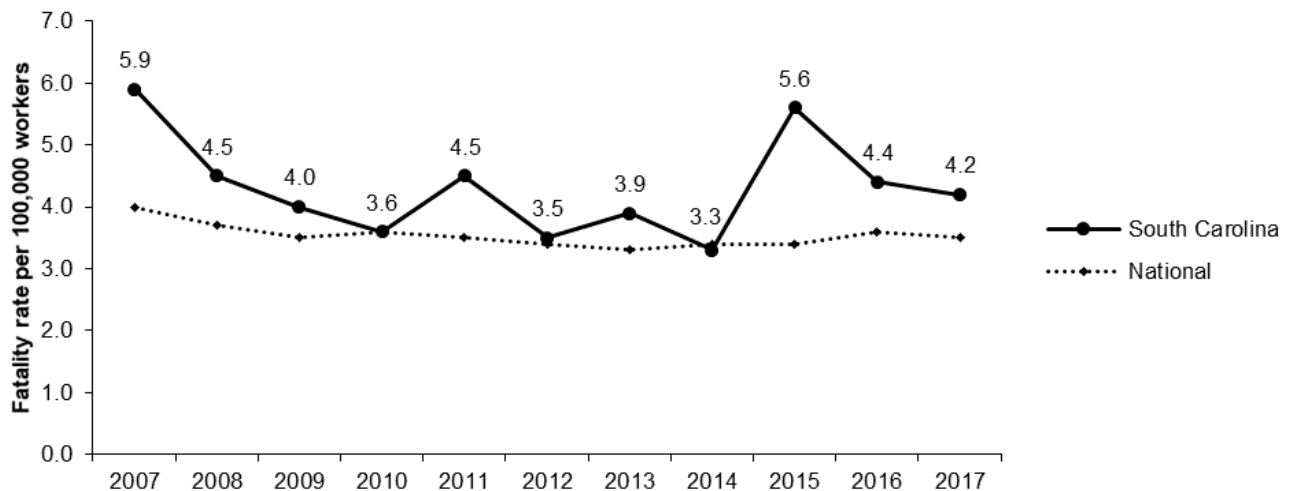


SOUTH CAROLINA

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 2,035,341 |
| Number of establishments: ¹ | 129,036 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 88 |
| Rate per 100,000 workers: ⁴ | 4.2 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 30 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 34,800 |
| Rate per 100 workers: | 2.5 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 19,500 |
| Rate per 100 workers: | 1.4 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 29 |
| Length of time it would take for OSHA to inspect each workplace once: | 212 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 609 |
| Construction: | 322 |
| Non-construction: | 287 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$1,217 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$2,025 |
| National average: | \$14,231 |

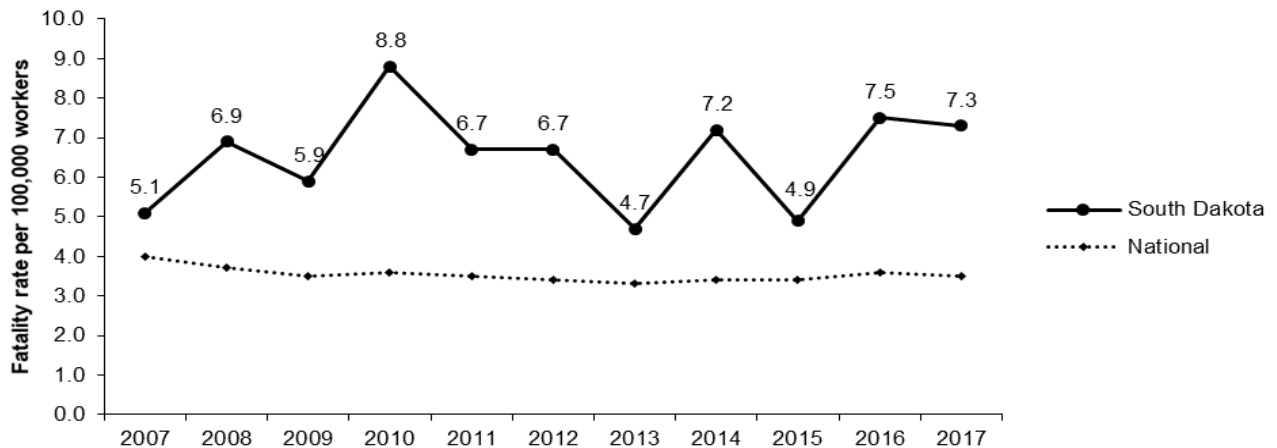


SOUTH DAKOTA

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 422,489 |
| Number of establishments: ¹ | 32,279 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 62,213 |
| | |
| Number of workplace fatalities, 2017: ³ | 30 |
| Rate per 100,000 workers: ⁴ | 7.3 |
| National rate: | 3.5 |
| | |
| Ranking of state fatality rate, 2017: ⁵ | 46 |
| | |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 2.8 |
| | |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | N/A |
| Rate per 100 workers: | N/A |
| National rate: | 1.5 |
| | |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 3 |
| Length of time it would take for OSHA to inspect each workplace once: | 203 |
| | |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 155 |
| Construction: | 108 |
| Non-construction: | 47 |
| | |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$2,958 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$5,660 |
| National average: | \$14,231 |

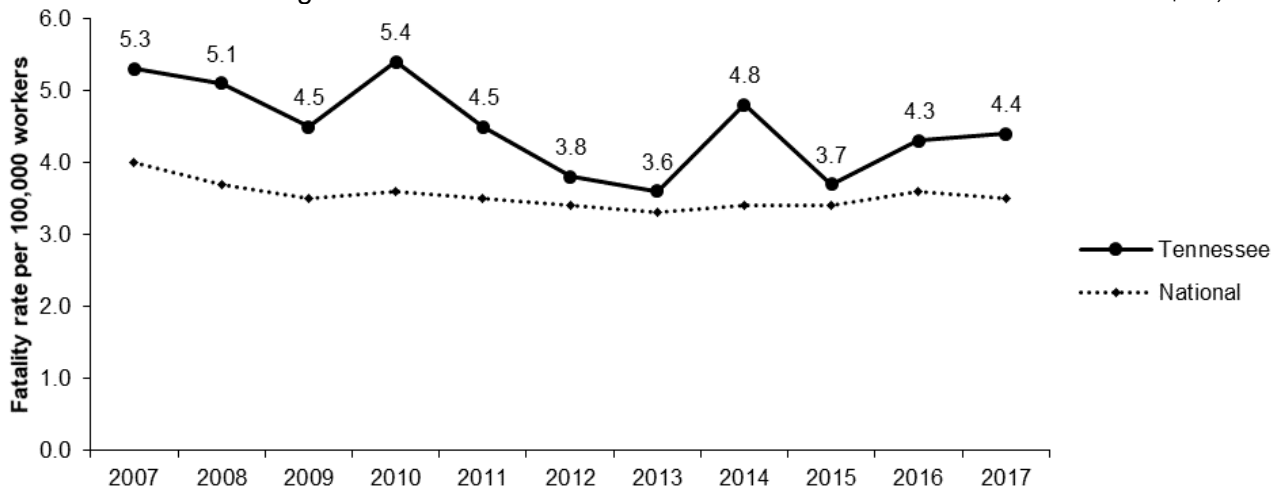


TENNESSEE

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 2,930,932 |
| Number of establishments: ¹ | 156,905 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 128 |
| Rate per 100,000 workers: ⁴ | 4.4 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 33 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 60,100 |
| Rate per 100 workers: | 2.9 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 32,800 |
| Rate per 100 workers: | 1.6 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 37 |
| Length of time it would take for OSHA to inspect each workplace once: | 88 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 1,788 |
| Construction: | 479 |
| Non-construction: | 1,309 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$1,472 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$9,709 |
| National average: | \$14,231 |

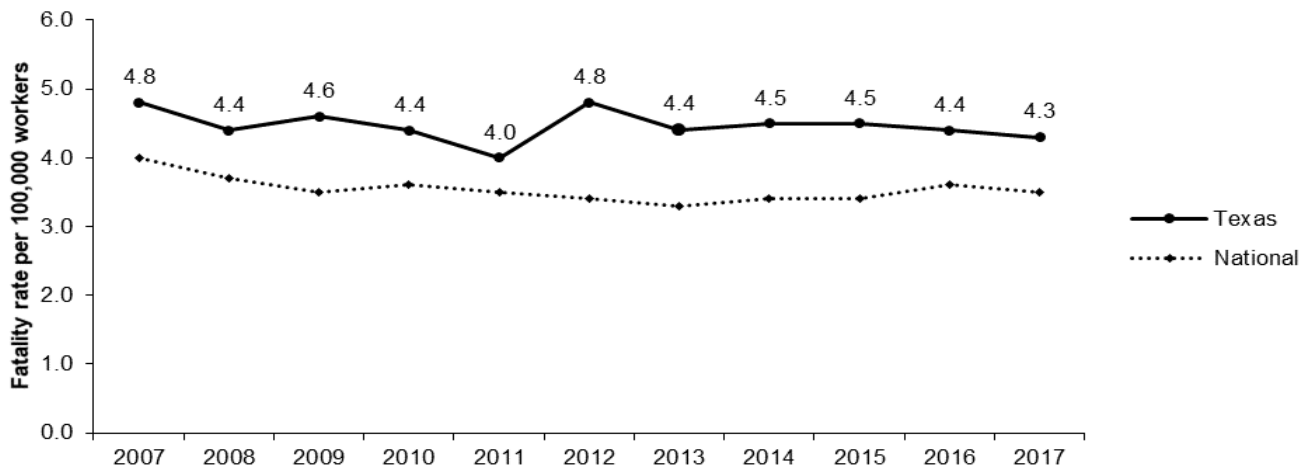


TEXAS

Worker Safety and Health



| | |
|--|------------|
| Number of employees: ¹ | 12,014,802 |
| Number of establishments: ¹ | 677,345 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 1,663,492 |
| Number of workplace fatalities, 2017: ³ | 534 |
| Rate per 100,000 workers: ⁴ | 4.3 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 31 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 183,400 |
| Rate per 100 workers: | 2.2 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 103,100 |
| Rate per 100 workers: | 1.2 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 85 |
| Length of time it would take for OSHA to inspect each workplace once: | 180 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 3,688 |
| Construction: | 2,040 |
| Non-construction: | 1,648 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,423 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$16,100 |
| National average: | \$14,231 |

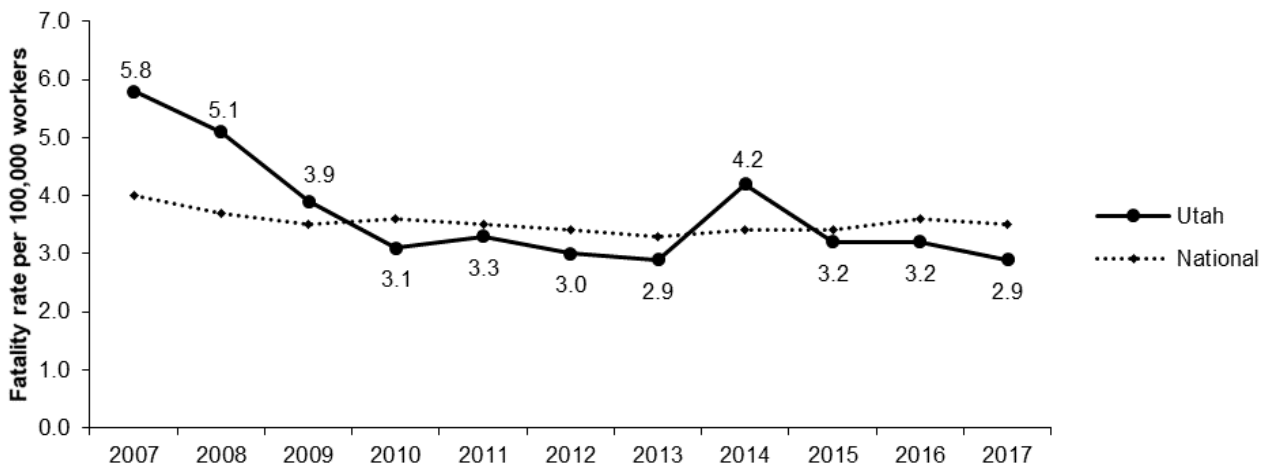


UTAH

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 1,430,588 |
| Number of establishments: ¹ | 98,903 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 43 |
| Rate per 100,000 workers: ⁴ | 2.9 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 13 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 29,600 |
| Rate per 100 workers: | 3.0 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 13,400 |
| Rate per 100 workers: | 1.4 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 18 |
| Length of time it would take for OSHA to inspect each workplace once: | 101 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 981 |
| Construction: | 434 |
| Non-construction: | 547 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$1,315 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$3,918 |
| National average: | \$14,231 |

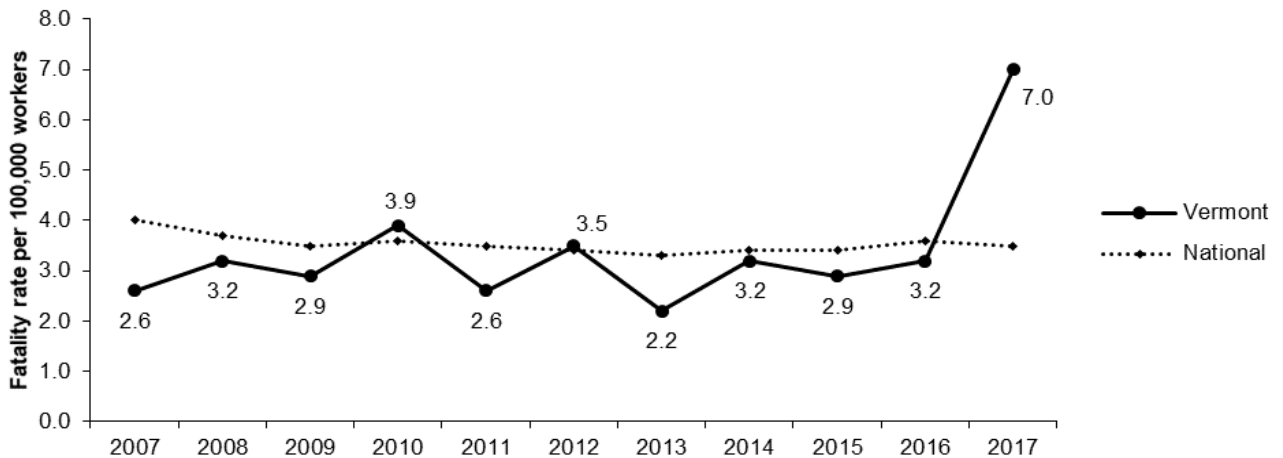


VERMONT

Worker Safety and Health

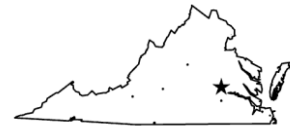


| | |
|--|----------|
| Number of employees: ¹ | 309,442 |
| Number of establishments: ¹ | 25,525 |
| State or federal OSHA program: ² | State |
| Number of state and local public employees not covered by the OSH Act: | |
| Number of workplace fatalities, 2017: ³ | 22 |
| Rate per 100,000 workers: ⁴ | 7.0 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 45 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 9,100 |
| Rate per 100 workers: | 4.6 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 4,300 |
| Rate per 100 workers: | 2.2 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 7 |
| Length of time it would take for OSHA to inspect each workplace once: | 88 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 290 |
| Construction: | 119 |
| Non-construction: | 171 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$2,627 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$12,585 |
| National average: | \$14,231 |

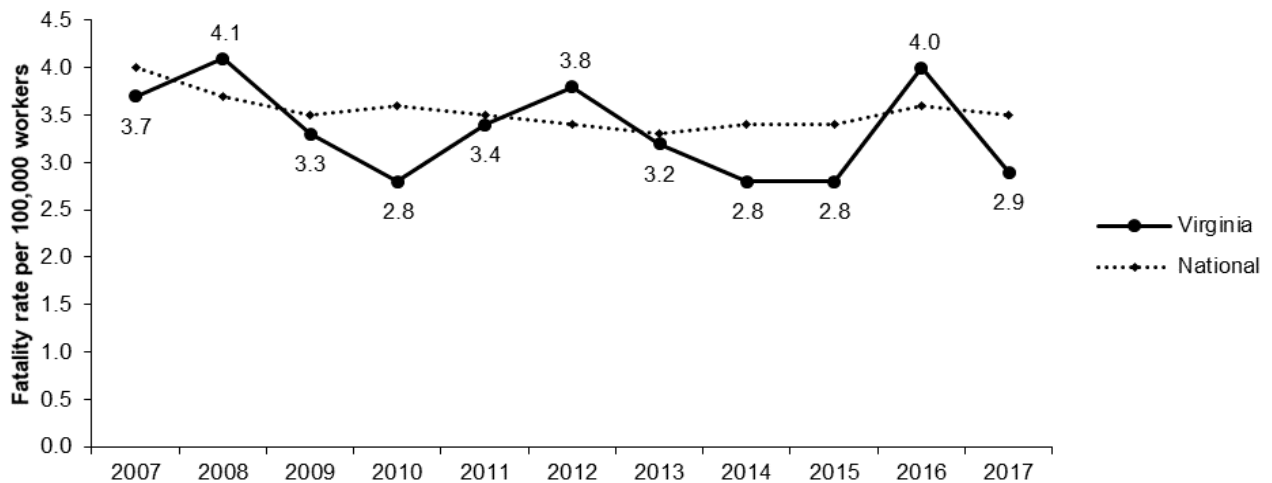


VIRGINIA

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 3,838,368 |
| Number of establishments: ¹ | 270,073 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 118 |
| Rate per 100,000 workers: ⁴ | 2.9 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 13 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 60,200 |
| Rate per 100 workers: | 2.4 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 32,000 |
| Rate per 100 workers: | 1.3 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 47 |
| Length of time it would take for OSHA to inspect each workplace once: | 123 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 2,197 |
| Construction: | 1,121 |
| Non-construction: | 1,076 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$2,357 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$8,806 |
| National average: | \$14,231 |

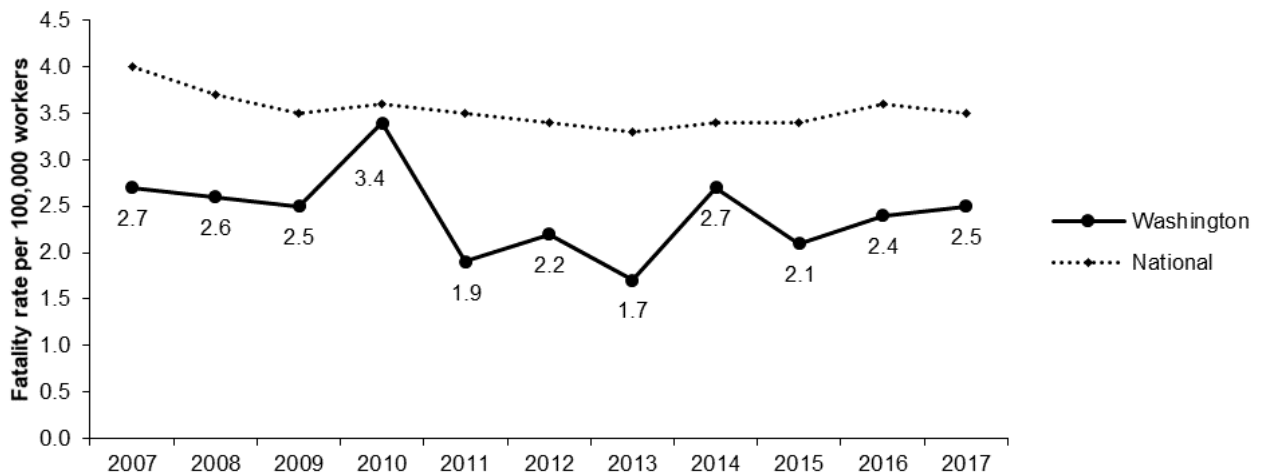


WASHINGTON

Worker Safety and Health



| | |
|--|-----------|
| Number of employees: ¹ | 3,290,209 |
| Number of establishments: ¹ | 242,082 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 84 |
| Rate per 100,000 workers: ⁴ | 2.5 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 9 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 86,600 |
| Rate per 100 workers: | 4.0 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 49,300 |
| Rate per 100 workers: | 2.3 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 119 |
| Length of time it would take for OSHA to inspect each workplace once: | 55 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 4,370 |
| Construction: | 1,839 |
| Non-construction: | 2,531 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$1,940 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$7,852 |
| National average: | \$14,231 |

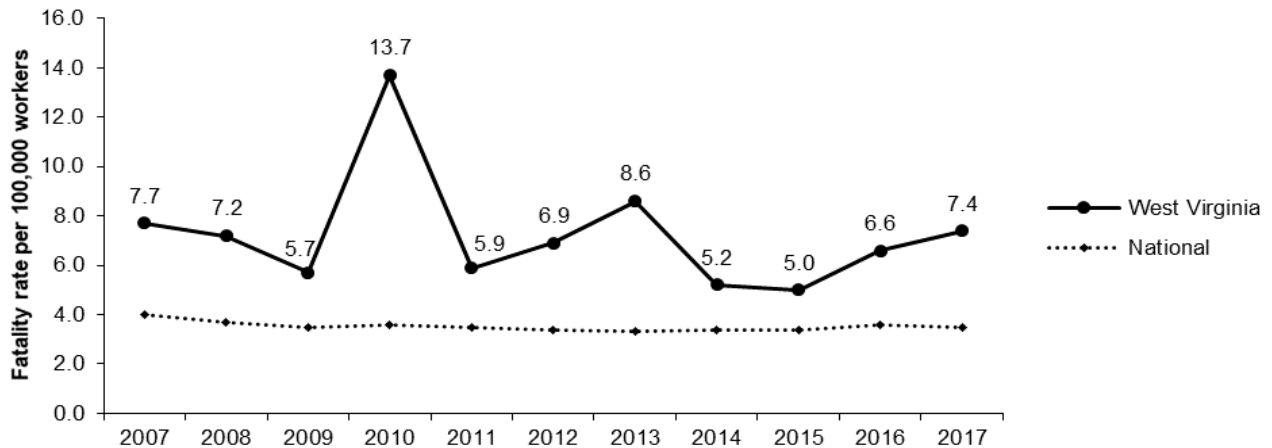


WEST VIRGINIA

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 683,807 |
| Number of establishments: ¹ | 50,303 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 112,505 |
| | |
| Number of workplace fatalities, 2017: ³ | 51 |
| Rate per 100,000 workers: ⁴ | 7.4 |
| National rate: | 3.5 |
| | |
| Ranking of state fatality rate, 2017: ⁵ | 47 |
| | |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 13,100 |
| Rate per 100 workers: | 2.9 |
| National rate: | 2.8 |
| | |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 6,500 |
| Rate per 100 workers: | 1.5 |
| National rate: | 1.5 |
| | |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 8 |
| Length of time it would take for OSHA to inspect each workplace once: | 188 |
| | |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 251 |
| Construction: | 113 |
| Non-construction: | 138 |
| | |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,640 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$12,895 |
| National average: | \$14,231 |

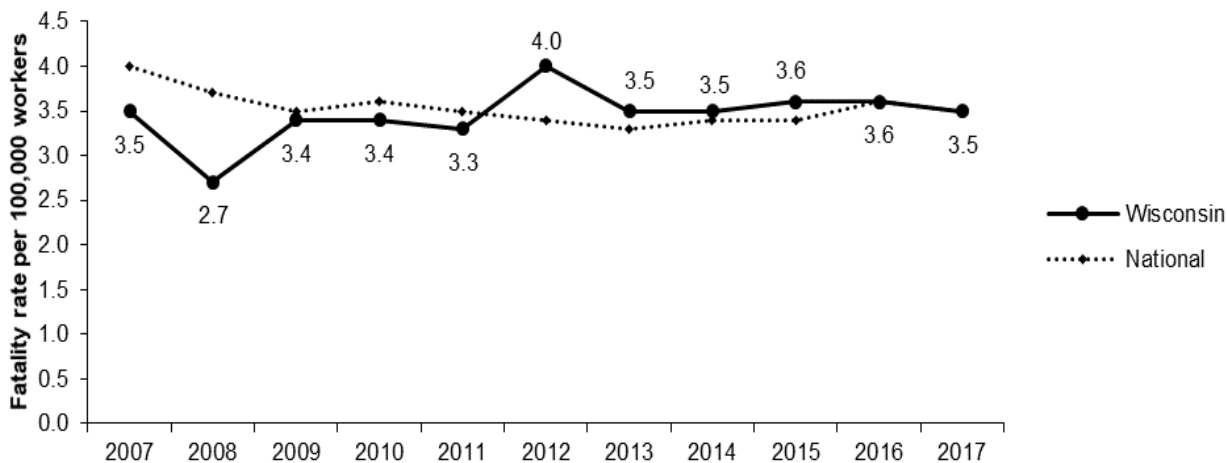


WISCONSIN

Worker Safety and Health

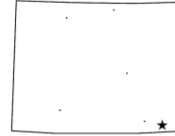


| | |
|--|-----------|
| Number of employees: ¹ | 2,850,145 |
| Number of establishments: ¹ | 171,716 |
| State or federal OSHA program: ² | Federal |
| Number of state and local public employees not covered by the OSH Act: | 348,044 |
| Number of workplace fatalities, 2017: ³ | 106 |
| Rate per 100,000 workers: ⁴ | 3.5 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 23 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 71,900 |
| Rate per 100 workers: | 3.6 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 37,000 |
| Rate per 100 workers: | 1.9 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 28 |
| Length of time it would take for OSHA to inspect each workplace once: | 139 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 1,192 |
| Construction: | 598 |
| Non-construction: | 594 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,910 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$12,013 |
| National average: | \$14,231 |

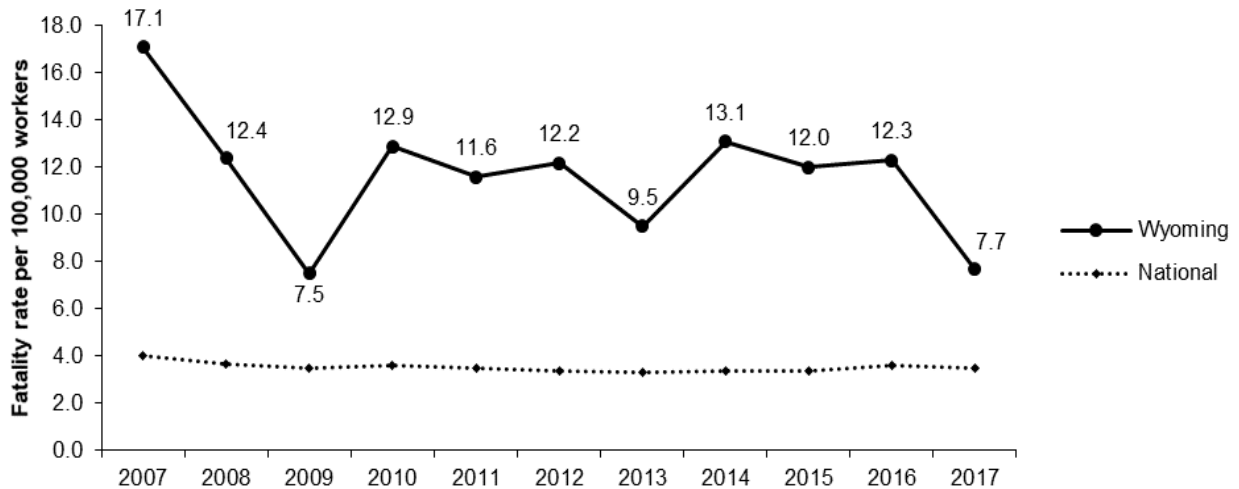


WYOMING

Worker Safety and Health



| | |
|--|----------|
| Number of employees: ¹ | 269,586 |
| Number of establishments: ¹ | 26,125 |
| State or federal OSHA program: ² | State |
| Number of workplace fatalities, 2017: ³ | 20 |
| Rate per 100,000 workers: ⁴ | 7.7 |
| National rate: | 3.5 |
| Ranking of state fatality rate, 2017: ⁵ | 48 |
| Total cases of workplace injuries and illnesses, private industry, 2017: ⁶ | 6,000 |
| Rate per 100 workers: | 3.5 |
| National rate: | 2.8 |
| Total injury and illness cases with days away from work, job transfer or restriction, private industry, 2017: ⁷ | 2,700 |
| Rate per 100 workers: | 1.6 |
| National rate: | 1.5 |
| Number of workplace safety and health inspectors, FY 2019: ⁸ | 6 |
| Length of time it would take for OSHA to inspect each workplace once: | 139 |
| Number of workplace safety and health inspections conducted, FY 2018: ⁹ | 187 |
| Construction: | 98 |
| Non-construction: | 89 |
| Avg. penalty assessed for serious violations of the OSH Act, FY 2018: ⁹ | \$3,340 |
| National average: | \$2,729 |
| Avg. total penalty per fatality investigation, FY 2018: ¹⁰ | \$7,491 |
| National average: | \$14,231 |



STATE PROFILES FOOTNOTES

¹U.S. Department of Labor, Bureau of Labor Statistics, Employment and Wages: Annual Averages, 2017.

²Under §18 of the Occupational Safety and Health Act, a state may elect to run its own occupational safety and health program, provided it is as effective as the federal program. One condition of operating a state plan is that the program must cover state and local employees who otherwise are not covered by the OSH Act. Currently, 21 states and one territory administer their own OSHA programs for both public- and private-sector workers. Connecticut, Illinois, Maine, New Jersey, New York and the Virgin Islands have state programs for public employees only.

³U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, 2017, released Dec. 18, 2018.

⁴*Ibid.*

⁵Ranking based on best to worst (1=best; 50=worst).

⁶U.S. Department of Labor, Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses, 2017 private sector only, released Nov. 8, 2018.

⁷U.S. Department of Labor, Bureau of Labor Statistics, State Data, Nonfatal Occupational Injuries and Illnesses Requiring Days Away from Work, Job Transfer or Restriction, 2017 private sector only, released Nov. 8, 2018.

⁸U.S. Department of Labor, OSHA. Federal Compliance Safety and Health Officer Totals by State, as of December 2018; data received Feb. 28, 2019. State plan state Compliance Safety and Health Officers “on board” from FY 2019 State Plan Grant Applications, as of July 1, 2018; data received March 1, 2019.

⁹U.S. Department of Labor, OSHA. Inspection data provided by the Directorate of Enforcement Programs, OIS Inspection Report; and the Directorate of Cooperative and State Programs, OIS State by Year for 18(b) State (only).

¹⁰U.S. Department of Labor, OSHA, FY 2018. Fatality inspection penalty data provided by the Directorate of Enforcement Programs, OIS Inspection Report; and the Directorate of Cooperative and State Programs, OIS State by Year for 18(b) State (only). Average penalties may appear very high if there was an enforcement case in that state with a substantial penalty. For example, in 2016, one willful fatality case in Alabama resulted in total penalties of \$2.5 million, which resulted in an average penalty for the state of \$85,832 in FY 2016. In FY 2015, the average penalty for a fatality case in Alabama was \$8,781.

SOURCES AND METHODOLOGY

Employment and Establishment Data: Employment and Wages, Annual Averages, 2017, Bureau of Labor Statistics, U.S. Department of Labor.

Coverage of State and Local Employees: OSHA coverage of state and local employees depends on whether the state has adopted and runs its own OSHA program. States that run their own OSHA programs are required, as a condition of gaining federal approval, to cover state and local employees. The OSH Act does not cover public employees in the 24 states that do not run their own OSHA programs. Statistics on the number of state and local employees are from Employment and Wages, Annual Averages, 2017, Bureau of Labor Statistics, U.S. Department of Labor.

Workplace Fatality Information: Census of Fatal Occupational Injuries, 2017, Bureau of Labor Statistics, U.S. Department of Labor. Rate reflects fatalities per 100,000 workers.

Private-Sector Injury and Illness Data: Survey of Occupational Injuries and Illnesses, 2017, Bureau of Labor Statistics, U.S. Department of Labor. Rates reflect injuries and illnesses per 100 workers.

Inspector Information: The number of federal OSHA inspectors comes from OSHA's Directorate of Enforcement Programs records and reflects the number of inspectors, excluding supervisors and discrimination complaint inspectors. For the state-by-state profiles, we include the number of inspectors for the state in which the area office is located. Inspector data for state plan states come from OSHA's Directorate of Cooperative and State Programs, and reflects the number of "on board" inspectors included in the states' FY 2019 state plan grant applications. The number of "on board" inspectors may not accurately reflect the true number of inspectors that are hired and in place conducting enforcement inspections due to possible budgetary and staffing changes in individual states. National total for inspectors includes inspectors from Puerto Rico and the Virgin Islands.

Inspection Information: The number of inspections comes from the OIS (OSHA Information System). OSHA provided federal and state inspection information for FY 2018.

Penalty Information: Data on average penalties comes from the above-referenced OIS reports. We present the average penalty data as individual state penalties, federal OSHA state penalties, state plan OSHA state penalties and a national average of penalties. We calculate the average penalty numbers by dividing the total cost for serious penalties by the total number of serious violations. The national average includes penalty data from the District of Columbia and U.S. territories and protectorates: American Samoa, Guam, the Marshall Islands, Puerto Rico and the Virgin Islands.

The Length of Time It Would Take for OSHA to Inspect Each Establishment Once: This information is calculated separately for each federal OSHA state, each state plan OSHA state, the average for federal OSHA states, the average for state plan OSHA states and the national average for all states for one-time inspections. We obtain establishment data from Employment and Wages, Annual Averages, 2017, at <https://www.bls.gov/cew/cewbultncur.htm>.

For individual federal OSHA states, we divide the total number of private-industry (except mines) plus federal establishments by the number of inspections per federal OSHA state.

For individual state plan OSHA states, and for Connecticut, Illinois, Maine, New Jersey and New York, we divide the total number of private-industry (except mines) plus federal, state and local establishments by the number of federal inspections plus the number of 18(b) state inspections per state. (Federal OSHA conducts a limited number of inspections in state plan states, presumably in federal facilities and maritime operations, for which state OSHA programs are not responsible. We include these inspections and establishments in the state profiles). The national average includes inspection data from American Samoa, the District of Columbia, Guam, the Marshall Islands, Puerto Rico and the Virgin Islands.

For the average of federal or state plans to inspect establishments one time, we add the total number of establishments for individual federal or state plan states together and then divide by the total number of federal or state inspections, respectively. For this calculation, we consider Connecticut, Illinois, Maine, New Jersey and New York as federal states.

For the national average for one-time inspections, we divide the total number of establishments for both federal states and state plan states by the total number of federal and state inspections.

NOTES: Due to the revised recordkeeping rule, which became effective Jan. 1, 2002, the estimates from the 2002 BLS Survey of Occupational Injuries and Illnesses are not comparable with those from previous years. Among the changes that could affect comparisons are: Changes to the list of low-hazard industries exempt from recordkeeping; employers are no longer required to record all illnesses regardless of severity; a new category of injuries/illnesses diagnosed by a physician or health care professional; changes to the definition of first aid; and days away from work are recorded as calendar days.

Beginning with the 2003 reference year, both the Census of Fatal Occupational Injuries and the Survey of Occupational Injuries and Illnesses began using the 2002 North American Industry Classification System for industries and the Standard Occupation Classification system for occupations. Prior to 2003, the surveys used the Standard Industrial Classification system and the Bureau of the Census occupational classification system. The substantial differences between these systems result in breaks in series for industry and occupational data. Therefore, this report makes no comparisons of industry and occupation data from BLS for years beginning with 2003 and beyond with industry and occupation data reported by BLS prior to 2003.



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