

Injuries, Illnesses, and Fatalities



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Fatal injury rates ⁽¹⁾ by state of incident and industry ⁽²⁾, 2017

State	2017 Overall Rate	Agriculture, forestry, fishing and hunting	Mining, quarrying, and oil and gas extraction	Construction	Manufacturing	Wholesale and retail trade	Transportation and utilities	Information	Financial activities	Professional and business services	Educational and health services	Leisu and hospita
Alabama	4.3	17.9	-	13.1	2.5	2.7	14.5	-	-	5.1	-	-
Alaska	10.2	311.6	-	-	-	-	-	-	-	-	-	-
Arizona	3.0	-	-	4.9	3.1	2.3	18.5	-	-	2.9	-	-
Arkansas	6.1	14.8	-	9.7	3.8	-	42.7	-	-	8.3	2.1	-
California	2.2	10.0	-	6.1	1.4	2.0	5.9	-	0.5	2.6	0.5	-
Colorado	2.8	-	18.3	8.3	-	2.3	9.6	-	-	2.4	-	-
Connecticut	1.9	-	-	-	-	-	16.7	-	-	3.1	-	-
Delaware	2.4	-	-	-	-	-	-	-	-	-	-	-
District of Columbia	3.4	-	-	59.4	-	-	-	-	-	-	-	-
Florida	3.3	13.8	-	10.9	3.3	1.4	8.8	-	0.8	4.7	0.5	-
Georgia	4.1	17.5	-	10.4	2.7	2.9	13.6	-	2.4	3.8	-	-
Hawaii	2.2	-	-	9.6	-	-	-	-	-	-	-	-
Idaho	4.8	33.2	-	8.2	-	-	26.5	-	-	-	-	-
Illinois	2.8	22.5	-	8.8	1.5	1.9	12.5	-	-	1.8	-	-
Indiana	4.5	49.7	-	7.9	1.5	3.7	16.1	-	-	4.8	1.1	-
Iowa	4.7	25.9	-	9.4	2.3	4.2	20.6	-	-	4.2	-	-
Kansas	5.2	63.0	-	8.0	3.5	-	22.8	-	-	-	-	-
Kentucky	3.8	34.4	-	8.2	-	-	9.7	-	-	4.0	-	-
Louisiana	6.3	42.3	7.8	13.8	-	2.0	27.9	-	-	4.7	1.4	-
Maine	2.7	-	-	-	-	-	-	-	-	-	-	-
Maryland	3.0	30.8	-	11.8	-	-	13.4	-	-	2.4	-	-
Massachusetts	3.2	40.1	-	12.8	-	4.2	4.3	-	2.4	2.1	1.1	-
Michigan	3.4	40.1	-	12.8	1.3	3.5	5.4	-	-	2.6	0.6	-
Minnesota	3.5	28.2	-	5.7	2.2	5.2	7.4	-	-	2.4	1.4	-
Mississippi	6.2	33.9	-	15.8	8.2	-	20.0	-	-	-	-	-
Missouri	4.4	32.9	-	5.5	-	3.4	14.1	-	3.0	4.7	-	-
Montana	6.9	51.9	-	16.6	-	-	-	-	-	-	-	-
Nebraska	3.6	22.8	-	-	-	-	12.5	-	-	-	-	-
Nevada	2.4	-	-	4.9	-	-	-	-	-	3.1	-	-
New Hampshire	1.6	-	-	14.0	-	-	-	-	-	-	-	-
New Jersey	1.6	40.6	-	5.6	1.5	1.0	5.2	-	-	2.0	-	-
New Mexico	4.7	-	-	-	-	-	36.6	-	-	-	-	-
New York	3.5	31.2	-	12.2	2.0	3.5	7.0	3.4	1.9	2.0	1.3	-
North Carolina	3.9	30.4	-	9.4	1.8	2.8	14.7	-	-	4.4	0.5	-

Footnotes:

⁽¹⁾ Workers under the age of 16 years, volunteer workers, and members of the resident military are not included in rate calculations to maintain consistency with the Current Population Survey (C Statistics (LAUS) employment. The ownership category government is not presented separately and may be included in any industry category. In 2007, the Census of Fatal Occupational Injuries (injury rates. Employment-based rates were used previously. Because of substantial differences between rates calculated using the two methods, hours-based state fatal injury rates should not be rates from previous years.

⁽²⁾ CFOI has used several versions of the North American Industry Classification System (NAICS) since 2003 to define industry. For more information on the version of NAICS used in this year, see /iif/oshcdef.htm.

Note: Dashes indicate that a fatal injury rate was not calculated because the data did not meet publication criteria or there were no data reported.
Source: U.S. Bureau of Labor Statistics, Current Population Survey, Local Area Unemployment Statistics, Census of Fatal Occupational Injuries, 2018.

State	2017 Overall Rate	Agriculture, forestry, fishing and hunting	Mining, quarrying, and oil and gas extraction	Construction	Manufacturing	Wholesale and retail trade	Transportation and utilities	Information	Financial activities	Professional and business services	Educational and health services	Leisu and hospita
North Dakota	10.1	16.8	40.0	18.2	-	-	38.2	-	-	-	-	-
Ohio	3.3	17.3	-	9.4	1.8	2.6	15.1	-	-	4.1	0.8	-
Oklahoma	5.5	11.0	11.4	13.4	4.2	2.8	18.1	-	-	4.1	1.8	-
Oregon	3.2	19.2	-	7.8	-	3.2	13.4	-	-	2.5	-	-
Pennsylvania	3.0	25.6	-	8.8	2.3	1.5	14.9	-	-	1.2	0.7	-
Rhode Island	1.6	-	-	-	-	-	-	-	-	-	-	-
South Carolina	4.2	-	-	12.7	1.7	3.8	9.5	-	-	4.3	-	-
South Dakota	7.3	20.1	-	18.0	-	8.7	37.6	-	-	-	-	-
Tennessee	4.4	25.0	-	13.2	2.9	4.2	13.7	-	-	4.0	1.1	-
Texas	4.3	29.8	12.5	11.3	1.7	2.1	14.4	-	0.7	4.0	0.9	-
Utah	2.9	-	-	6.2	-	-	21.2	-	-	-	-	-
Vermont	7.0	-	-	-	-	-	-	-	-	-	-	-
Virginia	2.9	51.7	-	10.7	-	3.2	10.1	-	-	1.7	0.7	-
Washington	2.5	11.7	-	6.2	1.9	3.2	5.8	-	-	1.8	-	-
West Virginia	7.4	-	48.9	17.7	-	-	28.0	-	-	-	-	-
Wisconsin	3.5	23.1	-	10.9	1.5	2.9	4.9	-	3.7	2.6	1.0	-
Wyoming	7.7	-	-	-	-	-	31.6	-	-	-	-	-
New York City	2.3	-	-	7.8	-	2.9	4.3	-	1.8	1.8	0.9	-

Footnotes:

(1) Workers under the age of 16 years, volunteer workers, and members of the resident military are not included in rate calculations to maintain consistency with the Current Population Survey (C Statistics (LAUS) employment. The ownership category government is not presented separately and may be included in any industry category. In 2007, the Census of Fatal Occupational Injuries (injury rates. Employment-based rates were used previously. Because of substantial differences between rates calculated using the two methods, hours-based state fatal injury rates should not be rates from previous years.

(2) CFOI has used several versions of the North American Industry Classification System (NAICS) since 2003 to define industry. For more information on the version of NAICS used in this year, see /iif/oshcdef.htm.

Note: Dashes indicate that a fatal injury rate was not calculated because the data did not meet publication criteria or there were no data reported.

Source: U.S. Bureau of Labor Statistics, Current Population Survey, Local Area Unemployment Statistics, Census of Fatal Occupational Injuries, 2018.

Fatal injury rate computation

Fatal injury rates depict the risk of incurring a fatal occupational injury and can be used to compare risk among worker groups with varying employment levels. Since employment data are not collected by CFOI, fatal injury rates are calculated using CPS and LAUS data. Each state rate in the table above represents the number of fatal occupational injuries per 100,000 full-time equivalent workers and was calculated as:

Fatality rate = $(N_S/EH_S) \times 200,000,000$ where

N_S = number of fatal work injuries in the state

EH_S = total hours worked by all employees in the state during the calendar year

200,000,000 = base for 100,000 equivalent full-time workers (working 40 hours per week, 50 weeks per year)

State rates by industry were imputed by using national-level "average hours" and "at work" information from CPS to calculate the average annual number of hours for each employee, since these data are not available at the state level. EH_S (total hours worked by all employees in the state during the calendar year) was calculated as:

$EH_S = HW_N \times E_S$ where

E_S = State employment (from LAUS)

HW_N = average annual number of hours for each employee at the national level (from CPS)

Fatal injury rate limitations

State industry rates are not directly comparable to national industry rates. Because state rates include government workers in their respective industry and are not broken out separately, both the numerator and denominator include a different group of workers than that of the national rates. State industry rates are not comparable to other states because of the large differences in the industry composition of employment by state.

There are several **limitations** of using CPS data in CFOI rate calculations. LAUS estimates for states are derived from signal-plus-noise models that use the monthly employment and unemployment measures tabulated from the CPS as the primary input and therefore the caveats from CPS apply to the LAUS data as well.

Fatal occupational injury rates by state of incident and industry, 2017

- State of residence versus state of incident: The CPS counts workers by their state of residence, whereas the CFOI counts workers by state of incident.
- Primary job versus job at the time of incident: The CPS annual average employment data used in the rate calculations count workers according to their primary job, whereas CFOI uses the job held when fatally injured.
- Employment sampling errors: The CPS data uses a sample of households, therefore the CPS estimates, and the fatal injury rates based on them, have sampling errors.

For more information on how state rates are calculated and employment data limitations please see the BLS Handbook of Methods: </opub/hom/cfoi/calculation.htm>.

For more information on CPS and LAUS please see their sections in the BLS Handbook of Methods: <https://www.bls.gov/opub/hom/cps/home.htm> and </opub/hom/lau/home.htm>.

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U.S. Bureau of Labor Statistics | OCWC/OSH, PSB Suite 3180, 2 Massachusetts Avenue, NE Washington, DC 20212-0001
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