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Employer-Reported Workplace Injuries and Illnesses in Michigan — 2017

Michigan's private sector employers reported 93,900 nonfatal workplace injuries and illnesses in 2017, resulting in an incidence rate of 3.1 cases per 100 full-time equivalent workers, the U.S. Bureau of Labor Statistics reported today. (See table A.) Assistant Commissioner for Regional Operations Charlene Peiffer noted that Michigan was among 20 states that had an incidence rate of total recordable cases (TRC) significantly higher than the national rate of 2.8. (Michigan was 1 of 41 states and the District of Columbia for which statewide estimates are available. See Technical Note at the end of this release for more information about the survey.)

Michigan's findings from the 2017 Survey of Occupational Injuries and Illnesses include:

- TRC incidence rates in private industry ranged from 0.8 in financial activities to 5.3 in natural resources and mining. (See table 1.)
- Two supersectors, with 34 percent of private industry employment, accounted for 50 percent of the occupational injuries and illnesses: manufacturing and education and health services. (See table 2.)
- In private industry, the TRC injury and illness incidence rate ranged from 1.6 for small establishments (those employing fewer than 11 workers) to 4.0 for mid-size establishments (those employing 50 to 249 workers). (See table 3.)
- Michigan's private industry TRC rate of 3.1 in 2017 was similar to the rate in 2016. (See table 4.)

Table A. Number and rate of nonfatal occupational injuries and illnesses in private industry, United States and Michigan, 2017

Characteristic	United States		Michigan	
	Number (in thousands)	Rate (per 100 workers)	Number (in thousands)	Rate (per 100 workers)
Total cases	2,811.5	2.8	93.9	3.1
Cases with days away from work, job transfer, or restriction	1,528.0	1.5	46.9	1.6
Cases with days away from work	882.7	0.9	23.4	0.8
Cases with job transfer or restriction	645.3	0.7	23.6	0.8
Other recordable cases	1,283.5	1.3	47.0	1.6

Note: Because of rounding, components may not add to totals.

Private industry injury and illness case types

Of the 93,900 private industry injury and illness cases reported in Michigan, 46,900 were of a more severe nature, involving days away from work, job transfer, or restriction—commonly referred to as DART cases. These cases occurred at a rate of 1.6 cases per 100 full-time workers. Fifty percent of the DART cases in Michigan were incidents that resulted in at least one day away from work, compared to 58 percent nationally.

Other recordable cases (those not involving days away from work, job transfer, or restriction) accounted for the remaining 47,000 cases in Michigan, at a rate of 1.6. In comparison, the national rate for other recordable cases was 1.3.

In Michigan, the manufacturing and financial activities supersectors had significant declines in the TRC incidence rate from a year ago. No private industry supersector had a significant change in the DART incidence rate from the previous year.

In 2017, 88,800 (94.6 percent) of private industry recordable injuries and illnesses in Michigan were injuries. Workplace illnesses accounted for an additional 5,100 recordable cases. Three categories—hearing loss, skin disorders, and respiratory conditions—accounted for 39 percent of the occupational illnesses in Michigan. Nationally, these three categories amounted to 34 percent of the work-related illness total.

State and local government injury and illness cases

In the state and local government sector in Michigan, 15,300 injury and illness cases were reported in 2017, resulting in a rate of 4.3 cases per 100 full-time workers. Nationally, the rate was 4.6. Almost 78 percent of injuries and illnesses reported in Michigan's public sector occurred among local government workers.

State estimates and over-the-year change

Private industry and public sector estimates are available for 41 participating states and the District of Columbia for 2017. (See chart 1.) The private industry injury and illness rate was statistically higher than the national rate of 2.8 cases per 100 full-time workers in 20 states, lower in 15 states and the District of Columbia, and not statistically different in 6 states.

Compared to 2016, private industry TRC incidence rates declined in eight states. The private industry TRC incidence rate was relatively unchanged in 33 states, including Michigan, and the District of Columbia. Estimates for nine states were not available in 2017 for comparison.

Technical Note

The Survey of Occupational Injuries and Illnesses (SOII) is a Federal/State program in which employer's reports are collected annually from approximately 200,000 private industry and public sector (State and local government) establishments and processed by State agencies in cooperation with the Bureau of Labor Statistics. Summary information on the number of injuries and illnesses is transcribed by these employers directly from their recordkeeping logs to the survey questionnaire. The questionnaire also asks for the number of employee hours worked (needed in the calculation of incidence rates) as well as its annual average employment (needed to verify the unit's employment-size class).

Occupational injury and illness data for establishments in coal, metal, and nonmetal mining industries and for railroad activities are provided by the Department of Labor's Mine Safety and Health Administration (MSHA) and the Department of Transportation's Federal Railroad Administration (FRA), respectively. The SOII excludes all work-related fatalities as well as nonfatal work injuries and illnesses to the self-employed; to workers on farms with 10 or fewer employees; to private household workers; to volunteers; and to federal government workers.

Injuries and illnesses logged by employers conform to definitions and recordkeeping guidelines set by the Occupational Safety and Health Administration (OSHA), U.S. Department of Labor. Under OSHA guidelines, nonfatal cases are recordable if they are occupational injuries or illnesses which involve lost work time, medical treatment other than first aid, restriction of work or motion, loss of consciousness, or transfer to

another job. Employers record injuries separate from illnesses and also identify for each whether a case involved any days away from work or days of restricted work activity, or both, beyond the day of injury or onset of illness.

Survey estimates are based on a scientifically selected sample of establishments, some of which represent only themselves, but most of which also represent other employers of like industry and workforce size that were not chosen to report data in a given survey year.

The incidence rates presented in this release represent the number of injuries and/or illnesses per 100 full-time equivalent workers and were calculated as:

(N / EH) X 200,000 where,

N = number of injuries and/or illnesses

EH = total hours worked by all employees during the calendar year

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

Background and methodological information regarding the BLS occupational safety and health statistics program can be found in Chapter 9 of the BLS Handbook of Methods at www.bls.gov/opub/hom/soii/home.htm.

Additional occupational injury and illness data are available from our regional web page at www.bls.gov/regions/midwest. Information in this release will be made available to sensory impaired individuals upon request. Voice phone: (202)-691-5200; Federal Relay Service: (800)-877-8339.

Table 1. Incidence rates of nonfatal occupational injuries and illnesses by industry sector and case type, Michigan, 2017

Industry[1][2][3]	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
		Total	Cases with days away from work[4]	Cases with job transfer or restriction	
All industries including state and local government	3.3	1.6	0.8	0.8	1.6
Private industry	3.1	1.6	0.8	0.8	1.6
Goods-producing	4.0	2.0	1.0	1.0	2.0
Natural resources and mining	5.3	2.1	1.5	0.6	3.2
Construction	3.3	1.6	1.3	0.3	1.7
Manufacturing	4.1	2.1	0.9	1.2	2.0
Service-providing	2.8	1.4	0.7	0.7	1.4
Trade, transportation, and utilities	3.3	1.9	1.0	1.0	1.3
Information	1.6	1.0	0.7	0.3	0.6
Financial activities	0.8	0.4	0.2	0.2	0.4
Professional and business services	1.2	0.5	0.3	0.2	0.7
Education and health services	4.4	2.0	1.0	1.0	2.4
Leisure and hospitality	3.4	1.3	0.5	0.7	2.1
Other services, except public administration	2.6	1.6	1.0	0.7	1.0
State and local government	4.3	2.1	1.0	1.1	2.1
State government	2.9	1.6	0.9	0.7	1.2
Local government	5.0	2.4	1.1	1.3	2.6

Footnotes:
(1) Excludes farms with fewer than 11 employees.
(2) Data for mining (Sector 21 in the North American Industry Classification System, 2012 edition) include establishments not governed by the Mine Safety and Health Administration (MSHA) rules and reporting, such as those in oil and gas extraction and related support activities. Data for mining operators in coal, metal, and nonmetal mining are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries. These data do not reflect the changes the Occupational Safety and Health Administration made to its recordkeeping requirements effective January 1, 2002; therefore estimates for these industries are not comparable to estimates in other industries.
(3) Data for employers in rail transportation are provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation.
(4) Days-away-from-work cases include those that result in days away from work with or without job transfer or restriction.
Note: Because of rounding, components may not add to totals.
Incidence rates represent the number of injuries and illnesses per 100 full-time workers and were calculated as: (N/EH) x 200,000 where: N = number of injuries and illnesses; EH = total hours worked by all employees during the calendar year; and 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, Michigan, 2017 (numbers in thousands)

Industry[(1)(2)(3)]	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
		Total	Cases with days away from work[(4)]	Cases with job transfer or restriction	
All industries including state and local government	109.3	54.7	27.1	27.6	54.6
Private industry	93.9	46.9	23.4	23.6	47.0
Goods-producing	31.6	16.0	7.7	8.2	15.6
Natural resources and mining	1.5	0.6	0.4	0.2	0.9
Construction	4.8	2.3	1.9	0.4	2.5
Manufacturing	25.3	13.1	5.5	7.6	12.2
Service-providing	62.3	31.0	15.6	15.3	31.4
Trade, transportation, and utilities	21.1	12.6	6.2	6.4	8.6
Information	0.8	0.5	0.3	0.1	0.3
Financial activities	1.4	0.7	0.4	0.3	0.6
Professional and business services	5.5	2.4	1.6	0.9	3.1
Education and health services	22.0	9.9	4.8	5.1	12.2
Leisure and hospitality	9.0	3.4	1.4	1.9	5.6
Other services, except public administration	2.5	1.5	0.9	0.6	1.0
State and local government	15.3	7.7	3.7	4.0	7.6
State government	3.5	2.0	1.1	0.9	1.5
Local government	11.9	5.8	2.6	3.1	6.1

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(3) Data for employers in rail transportation are provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation.
(4) Days-away-from-work cases include those that result in days away from work with or without job transfer or restriction.
Note: Because of rounding, components may not add to totals.
Incidence rates represent the number of injuries and illnesses per 100 full-time workers and were calculated as: (N/EH) x 200,000 where: N = number of injuries and illnesses; EH = total hours worked by all employees during the calendar year; and 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

Table 3. Incidence rates of nonfatal occupational injuries and illnesses by industry sector and employment size, Michigan, 2017

Industry[(1)(2)(3)]	All establishments	Establishment employment size (workers)				
		1 to 10	11 to 49	50 to 249	250 to 999	1,000 or more
All industries including state and local government	3.3	1.7	2.6	4.1	3.3	3.5
Private industry	3.1	1.6	2.6	4.0	3.3	3.3
Goods-producing	4.0	4.2	4.0	4.5	3.7	3.4
Natural resources and mining	5.3	-	5.7	4.5	-	-
Construction	3.3	-	3.2	3.4	1.7	-
Manufacturing	4.1	-	4.2	4.8	4.0	3.4
Service-providing	2.8	1.1	2.2	3.7	3.1	3.3
Trade, transportation, and utilities	3.3	-	2.8	4.1	3.8	3.4
Information	1.6	[(4)]	[(4)]	2.3	1.9	-
Financial activities	0.8	-	-	1.7	1.2	0.5
Professional and business services	1.2	-	2.2	1.4	1.1	0.4
Education and health services	4.4	-	2.1	5.5	4.7	5.4
Leisure and hospitality	3.4	-	1.7	5.5	4.8	2.9
Other services, except public administration	2.6	-	3.0	2.3	4.4	-
State and local government	4.3	-	2.7	5.4	3.7	4.1
State government	2.9	-	3.6	2.0	3.7	2.8
Local government	5.0	-	-	6.1	3.6	5.6

Footnotes:
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(2) Data for mining (Sector 21 in the North American Industry Classification System, 2012 edition) include establishments not governed by the Mine Safety and Health Administration (MSHA) rules and reporting, such as those in oil and gas extraction and related support activities. Data for mining operators in coal, metal, and nonmetal mining are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries. These data do not reflect the changes the Occupational Safety and Health Administration made to its recordkeeping requirements effective January 1, 2002; therefore estimates for these industries are not comparable to estimates in other industries.
(3) Data for employers in rail transportation are provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation.
(4) Data do not meet publication guidelines.
Note: Because of rounding, components may not add to totals. Dashes indicate data not available.
Incidence rates represent the number of injuries and illnesses per 100 full-time workers and were calculated as: (N/EH) x 200,000 where: N = number of injuries and illnesses; EH = total hours worked by all employees during the calendar year; and 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

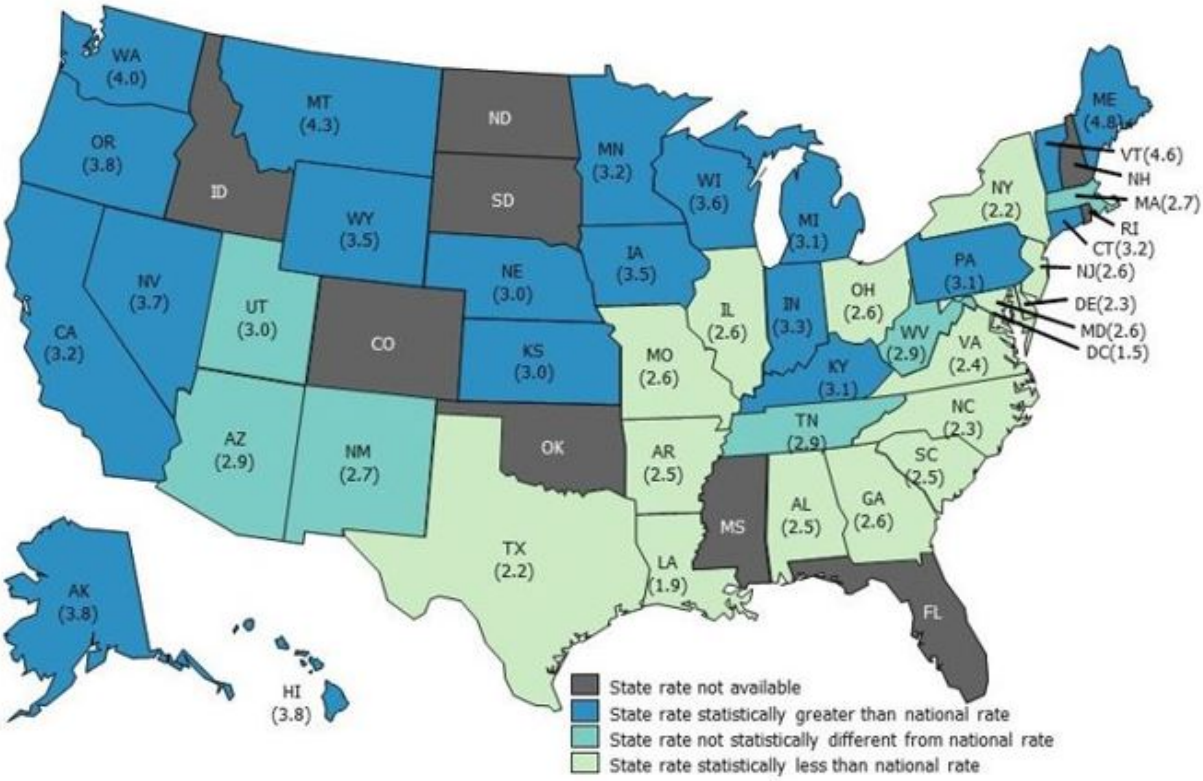
Table 4. Incidence rates of nonfatal occupational injuries and illnesses by industry sector and selected case type with measures of statistical significance, Michigan, 2016–17

Industry[1][2][3]	Total recordable cases		Cases with days away from work, job transfer, or restriction [4]	
	2016	2017	2016	2017
All industries including state and local government	3.4	3.3	1.6	1.6
Private industry	3.3	3.1	1.6	1.6
Goods-producing	4.1	4.0	2.1	2.0
Natural resources and mining	3.3	5.3	2.1	2.1
Construction	2.5	3.3	1.5	1.6
Manufacturing	4.5	4.1*	2.2	2.1
Service-providing	3.0	2.8	1.4	1.4
Trade, transportation, and utilities	3.5	3.3	2.1	1.9
Information	1.8	1.6	1.3	1.0
Financial activities	1.4	0.8*	0.6	0.4
Professional and business services	1.4	1.2	0.6	0.5
Education and health services	4.5	4.4	1.9	2.0
Leisure and hospitality	3.5	3.4	1.2	1.3
Other services, except public administration	2.8	2.6	1.3	1.6
State and local government	4.1	4.3	1.8	2.1
State government	2.8	2.9	1.5	1.6
Local government	4.7	5.0	2.0	2.4

Footnotes:
(1) Excludes farms with fewer than 11 employees.
(2) Data for mining (Sector 21 in the North American Industry Classification System, 2012 edition) include establishments not governed by the Mine Safety and Health Administration (MSHA) rules and reporting, such as those in oil and gas extraction and related support activities. Data for mining operators in coal, metal, and nonmetal mining are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries. These data do not reflect the changes the Occupational Safety and Health Administration made to its recordkeeping requirements effective January 1, 2002; therefore estimates for these industries are not comparable to estimates in other industries.
(3) Data for employers in rail transportation are provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation.
(4) Days-away-from-work cases include those that result in days away from work with or without job transfer or restriction.
Note: Incidence rates represent the number of injuries and illnesses per 100 full-time workers and were calculated as: (N/EH) x 200,000 where: N = number of injuries and illnesses; EH = total hours worked by all employees during the calendar year; and 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).
* An asterisk indicates a significant difference between the current year and prior year values, when testing at 95% confidence level.

Chart 1. State nonfatal occupational injury and illness incidence rates, private industry, 2017

(National rate = 2.8)



Note: Total recordable case (TRC) incidence rate per 100 full-time equivalent workers.
Source: U.S. Bureau of Labor Statistics.