

Table 6. Incidence rates¹ of nonfatal occupational injuries and illnesses by industry and selected case types, 2000

Michigan

Industry ²	SIC code ³	2000 Annual average employment ⁴ (000's)	Injuries and Illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁵	With days away from work ⁶			Total ⁵	With days away from work ⁶	
All Industries including State and local government⁷		4,527.0	7.8	3.9	1.9	3.9	6.8	3.4	1.7	3.4
Private Industry⁷		3,960.2	8.1	4.0	1.8	4.1	7.0	3.5	1.7	3.4
Agriculture, forestry, and fishing⁷		46.9	10.2	4.2	3.2	5.9	9.8	4.2	3.2	5.7
Agricultural production ⁷	01-02	18.2	8.5	3.7	2.8	4.8	8.2	3.6	2.8	4.5
Agricultural services	07	27.9	10.6	4.1	3.3	6.4	10.2	4.1	3.2	6.2
Mining⁸		7.7	7.6	4.0	3.1	3.7	7.0	3.6	2.8	3.3
Construction		206.8	9.2	4.7	4.0	4.5	8.9	4.5	3.8	4.4
General building contractors	15	46.0	8.9	4.5	3.5	4.5	8.8	4.3	3.4	4.4
Residential building construction	152	28.2	7.0	4.3	3.4	2.7	6.8	4.1	3.2	2.7
Nonresidential building construction	154	17.6	11.8	4.8	3.8	7.0	11.7	4.8	3.7	6.9
Heavy construction, except building	16	17.8	7.7	4.0	3.6	3.7	7.6	3.9	3.5	3.7
Highway and street construction	161	4.7	6.0	3.0	2.5	3.1	6.0	3.0	2.5	3.1
Heavy construction, except highway	162	13.1	8.4	4.4	4.0	4.0	8.2	4.3	3.9	4.0
Special trade contractors	17	143.0	9.4	4.9	4.2	4.6	9.1	4.6	4.0	4.5
Plumbing, heating, air-conditioning	171	32.4	11.9	5.3	4.6	6.6	11.5	5.0	4.3	6.5
Electrical work	173	28.8	7.2	3.2	3.1	4.0	6.8	3.1	2.9	3.7
Masonry, stonework, and plastering	174	15.8	9.9	5.3	4.5	4.6	9.8	5.2	4.5	4.6
Roofing, siding, and sheet metal work	176	7.7	11.1	4.8	3.3	6.3	11.1	4.8	3.3	6.3
Concrete work	177	12.2	7.9	5.0	4.4	2.8	7.5	4.8	4.2	2.6
Miscellaneous special trade contractors	179	25.0	7.3	3.9	3.0	3.4	7.1	3.7	2.8	3.4
Manufacturing		977.0	13.3	6.4	2.2	6.9	10.2	5.1	1.8	5.1
Durable goods		747.9	14.4	6.7	2.3	7.8	11.0	5.3	2.0	5.7
Lumber and wood products	24	18.2	8.8	5.8	2.9	3.0	8.0	5.3	2.8	2.7
Millwork, plywood and structural members	243	6.9	11.8	8.0	3.6	3.8	11.4	7.7	3.6	3.7
Furniture and fixtures	25	44.8	16.1	8.8	2.2	7.3	12.9	7.0	1.7	5.9
Office furniture	252	22.3	13.3	7.3	1.7	6.0	11.2	6.0	1.4	5.2
Partitions and fixtures	254	4.4	16.8	6.8	2.1	10.0	13.9	5.0	1.6	8.9
Stone, clay, and glass products	32	20.6	13.3	7.1	2.9	6.3	11.8	6.2	2.8	5.6
Products of purchased glass	323	8.9	14.2	6.7	1.5	7.5	11.0	4.7	1.2	6.2
Concrete, gypsum, and plaster products	327	6.4	14.6	7.3	5.2	7.3	14.4	7.2	5.1	7.2
Primary metal industries	33	37.9	15.9	6.7	3.5	9.2	14.1	5.9	3.1	8.1
Blast furnace and basic steel products	331	11.8	13.5	4.1	2.7	9.5	11.8	3.7	2.5	8.1
Blast furnaces and steel mills	3312	8.5	12.3	3.5	2.1	8.8	10.7	3.3	2.0	7.4
Iron and steel foundries	332	10.1	15.5	7.2	3.8	8.2	13.4	6.6	3.5	6.8
Gray and ductile iron foundries	3321	7.2	15.1	6.5	3.0	8.6	12.7	5.9	2.7	6.8
Nonferrous foundries (castings)	336	6.9	24.8	10.0	5.0	14.9	23.5	9.3	4.7	14.2
Fabricated metal products	34	129.5	15.1	7.9	2.8	7.2	13.0	6.9	2.5	6.1
Cutlery, handtools, and hardware	342	5.0	15.2	8.8	3.1	6.4	12.8	7.2	2.4	5.5
Fabricated structural metal products	344	15.8	15.1	7.8	3.9	7.3	14.2	7.1	3.5	7.1
Sheet metal work	3444	4.6	16.2	6.4	3.6	9.7	14.6	5.2	2.9	9.5
Screw machine products, bolts, etc.	345	13.9	13.8	7.3	2.8	6.5	12.7	7.0	2.5	5.8
Screw machine products	3451	7.2	14.5	8.2	3.5	6.3	12.9	7.8	3.2	5.0
Bolts, nuts, rivets, and washers	3452	6.7	13.0	6.3	2.0	6.7	12.6	6.1	1.9	6.5

See footnotes at end of table.

Table 6. Incidence rates¹ of nonfatal occupational injuries and illnesses by industry and selected case types, 2000 -- Continued

Michigan

Industry ²	SIC code ³	2000 Annual average employment ⁴ (000's)	Injuries and Illnesses				Injuries			
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				Total ⁵	With days away from work ⁶			Total ⁵	With days away from work ⁶	
Metal forgings and stampings	346	60.7	16.5	8.3	2.6	8.2	13.4	6.9	2.2	6.4
Automotive stampings	3465	54.6	16.5	8.1	2.5	8.4	13.1	--	2.0	6.4
Metal services, n.e.c.	347	14.7	12.9	8.7	2.4	4.2	11.7	7.8	2.2	3.9
Plating and polishing	3471	7.6	13.2	8.3	2.4	4.9	11.3	6.9	2.2	4.4
Metal coating and allied services	3479	7.1	12.5	9.1	2.5	3.5	12.1	8.7	2.2	3.4
Miscellaneous fabricated metal products	349	17.1	13.5	6.5	2.8	7.0	12.4	5.9	2.4	6.6
Industrial machinery and equipment	35	132.7	11.1	5.4	2.3	5.6	10.4	5.1	2.1	5.3
Construction and related machinery	353	10.8	7.1	4.3	2.1	2.9	6.6	3.8	1.7	2.8
Metalworking machinery	354	62.7	11.5	5.5	2.0	6.0	10.9	5.3	1.9	5.7
Machine tools, metal cutting types	3541	6.9	12.4	7.0	1.9	--	12.0	6.8	1.7	--
Special dies, tools, jigs and fixtures	3544	34.4	11.6	4.8	2.0	6.8	11.0	4.5	1.9	6.5
Machine tool accessories	3545	9.9	8.2	4.6	2.2	3.6	7.8	4.4	2.1	3.5
Special industry machinery	355	7.6	15.3	10.1	6.2	5.2	15.0	10.0	6.2	5.0
General industrial machinery	356	11.9	10.8	5.4	2.3	5.3	10.1	5.0	1.9	5.1
Industrial machinery, n.e.c.	359	27.7	10.9	5.0	2.4	5.9	9.9	4.4	2.2	5.5
Carburetors, pistons, rings, valves	3592	6.3	13.2	7.3	4.2	5.9	10.4	5.8	3.7	4.6
Industrial machinery, n.e.c.	3599	18.6	10.1	3.8	1.5	6.3	9.9	3.8	1.5	6.1
Electronic and other electric equipment	36	35.6	9.3	4.0	1.6	5.3	6.1	2.8	1.3	3.3
Household appliances	363	8.2	6.0	1.9	1.6	4.1	5.0	1.5	1.3	3.5
Electronic components and accessories	367	8.6	4.0	2.0	--	2.0	--	1.1	--	1.8
Miscellaneous electrical equipment and supplies	369	7.7	19.1	7.0	2.6	12.0	9.8	4.4	1.8	5.4
Transportation equipment	37	304.3	16.7	6.9	2.1	9.8	10.7	4.7	1.7	6.0
Motor vehicles and equipment	371	292.3	16.7	6.9	2.1	9.9	10.6	4.7	1.7	6.0
Motor vehicles and car bodies	3711	146.9	16.7	7.6	1.9	9.2	10.0	4.9	1.3	5.1
Motor vehicle parts and accessories	3714	143.7	16.7	6.1	2.2	10.6	11.2	4.4	2.0	6.8
Aircraft and parts	372	4.5	10.4	3.2	1.2	7.2	7.5	2.6	1.0	4.9
Instruments and related products	38	16.7	7.6	4.2	1.0	3.4	5.6	2.9	0.6	2.7
Measuring and controlling devices	382	8.6	4.3	1.1	0.4	3.2	3.7	0.8	0.3	2.9
Medical instruments and supplies	384	4.7	8.1	3.8	1.2	4.3	--	3.1	0.8	4.3
Miscellaneous manufacturing industries	39	7.7	10.2	5.2	1.2	5.0	9.7	4.9	1.1	4.8
Nondurable goods		229.1	9.4	5.5	1.7	3.9	7.4	4.3	1.4	3.1
Food and kindred products	20	37.0	10.8	6.7	2.4	4.2	9.2	5.8	2.1	3.5
Meat products	201	5.4	15.0	9.3	2.9	5.7	11.2	6.7	2.2	4.5
Dairy products	202	4.7	6.8	4.8	1.7	2.0	6.3	4.6	1.6	1.8
Preserved fruits and vegetables	203	6.5	7.7	4.6	1.2	3.0	7.2	4.4	1.1	2.8
Grain mill products	204	5.3	6.6	3.9	1.8	2.7	5.7	3.6	1.6	2.1
Bakery products	205	6.0	13.6	7.3	3.3	6.3	11.3	6.4	3.0	4.8
Beverages	208	4.3	11.8	8.1	4.4	3.6	10.9	7.4	4.1	3.5
Apparel and other textile products	23	20.2	28.2	17.4	1.9	10.8	14.0	9.0	1.1	5.0
Miscellaneous fabricated textile products	239	19.7	29.1	17.9	1.9	11.2	14.4	9.3	1.0	5.1
Paper and allied products	26	19.8	8.8	4.2	1.9	4.6	7.8	3.8	1.6	3.9
Paper mills	262	4.6	8.4	4.3	--	--	--	--	--	--
Paperboard containers and boxes	265	7.9	8.1	3.8	2.0	4.3	7.6	3.5	1.7	4.1
Printing and publishing	27	42.3	6.7	3.8	1.5	2.9	6.1	3.4	1.4	2.7
Newspapers	271	13.9	9.0	5.4	2.6	3.6	8.2	5.0	2.4	3.2
Books	273	5.5	8.2	5.1	1.4	3.1	7.6	4.5	1.1	3.0
Commercial printing	275	15.9	6.6	3.6	1.4	3.1	6.0	3.1	1.3	2.9
Commercial printing, lithographic	2752	12.0	6.4	3.7	1.3	2.7	5.5	3.1	1.2	2.4
Chemicals and allied products	28	42.1	4.3	1.9	1.0	2.4	3.4	1.6	0.8	1.8

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				Total ⁵	With days away from work ⁶			Total ⁵	With days away from work ⁶	
Drugs	283	13.4	6.3	1.9	1.2	4.4	4.5	1.5	0.9	2.9
Pharmaceutical preparations	2834	12.7	6.3	1.8	1.2	4.5	4.3	1.4	0.9	2.9
Rubber and miscellaneous plastics products	30	62.0	9.2	5.8	1.5	3.4	8.0	4.9	1.2	3.1
Miscellaneous plastics products, n.e.c.	308	51.6	8.8	5.6	1.3	3.2	7.8	4.8	1.1	2.9
Plastics products, n.e.c.	3089	38.9	8.5	5.5	1.3	3.0	7.6	4.8	1.0	2.8
Transportation and public utilities⁸		174.5	9.2	5.7	3.2	3.5	8.9	5.6	3.1	3.3
Railroad transportation ⁸	40	--	4.7	3.2	2.8	1.5	4.7	3.2	2.8	1.5
Local and interurban passenger transit	41	7.9	10.4	6.5	5.8	3.9	10.2	6.3	5.6	3.9
Trucking and warehousing	42	48.3	11.2	6.5	5.1	4.6	10.8	6.3	4.9	4.5
Transportation by air	45	33.7	15.2	11.1	4.5	4.1	15.1	11.0	4.4	4.1
Transportation services	47	16.1	9.1	5.4	2.2	3.7	9.0	5.3	2.1	3.7
Communications	48	33.1	3.6	2.1	1.2	1.5	3.1	2.1	1.1	1.1
Electric, gas, and sanitary services	49	32.7	7.3	3.9	1.3	3.3	7.0	3.8	1.3	3.1
Wholesale and retail trade		1,073.4	6.3	3.0	1.5	3.3	6.1	2.9	1.4	3.2
Wholesale trade		236.6	6.1	3.3	1.4	2.8	5.7	3.0	1.2	2.6
Wholesale trade--durable goods	50	158.2	5.4	2.7	0.9	2.7	4.9	2.4	0.8	2.5
Wholesale trade--nondurable goods	51	78.4	7.6	4.6	2.3	2.9	7.2	4.3	2.1	2.9
Retail trade		836.8	6.4	2.9	1.5	3.5	6.3	2.9	1.5	3.4
Building materials and garden supplies	52	42.0	8.1	3.7	2.3	4.4	8.0	3.7	2.3	4.3
Lumber and other building materials	521	21.1	9.8	4.0	2.7	5.8	9.6	4.0	2.7	5.6
Hardware stores	525	12.7	6.7	4.2	1.9	2.6	6.7	4.2	1.9	2.6
General merchandise stores	53	137.7	8.2	5.9	2.0	2.4	8.0	5.8	1.9	2.3
Food stores	54	101.7	9.0	4.7	2.1	4.3	8.8	4.5	2.1	4.3
Grocery stores	541	87.4	9.9	5.0	2.4	4.9	9.7	4.8	2.3	4.8
Automotive dealers and service stations	55	84.7	5.0	2.0	1.3	3.0	4.9	1.9	1.2	3.0
New and used car dealers	551	40.4	5.5	1.9	1.4	3.6	5.5	1.9	1.4	3.6
Gasoline service stations	554	26.2	4.7	2.1	1.1	2.6	4.6	2.0	1.1	2.6
Apparel and accessory stores	56	35.3	3.1	1.1	0.6	2.0	3.0	1.1	0.6	2.0
Furniture and homefurnishings stores	57	37.0	5.0	2.0	1.3	3.0	4.9	2.0	1.3	3.0
Eating and drinking places	58	293.8	6.7	2.0	1.4	4.7	6.6	2.0	1.4	4.6
Miscellaneous retail	59	104.5	3.1	1.4	0.9	1.8	3.1	1.3	0.9	1.7
Finance, insurance, and real estate		199.7	1.8	0.9	0.6	0.9	1.6	0.8	0.5	0.7
Depository institutions	60	63.7	1.3	0.5	0.4	0.8	1.0	0.4	0.3	0.6
Nondepository institutions	61	16.8	0.3	0.2	0.2	0.1	0.2	0.1	0.1	0.1
Insurance carriers	63	40.2	1.7	0.7	0.4	0.9	1.2	0.5	0.2	0.7
Real estate	65	41.4	4.7	2.8	1.7	1.9	4.5	2.7	1.6	1.7
Services		1,240.6	4.5	2.4	1.2	2.2	4.3	2.3	1.1	2.0
Hotels and other lodging places	70	37.8	7.1	3.1	1.4	4.0	6.9	3.0	1.2	3.9
Personal services	72	44.7	4.0	2.4	0.8	1.6	3.9	2.3	0.8	1.6
Laundry, cleaning, and garment services	721	14.9	8.6	5.3	1.6	3.3	8.4	5.1	1.5	3.3

See footnotes at end of table.

Table 6. Incidence rates¹ of nonfatal occupational injuries and illnesses by industry and selected case types, 2000 -- Continued

Michigan

Industry ²	SIC code ³	2000 Annual average employment ⁴ (000's)	Injuries and Illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁵	With days away from work ⁶			Total ⁵	With days away from work ⁶	
Business services	73	332.2	2.3	0.9	0.8	1.3	2.2	0.9	0.7	1.3
Auto repair, services, and parking	75	41.3	5.5	2.7	1.8	2.8	5.4	2.6	1.7	2.8
Automotive repair shops	753	24.2	4.4	2.3	1.4	2.1	4.3	2.2	1.4	2.1
Automotive services, except repair	754	10.4	5.4	2.3	1.3	3.1	5.4	2.3	1.3	3.1
Miscellaneous repair services	76	13.2	6.5	3.5	1.9	3.0	6.4	3.4	1.8	3.0
Motion pictures	78	15.2	4.5	2.2	0.9	2.3	4.4	2.1	0.8	2.3
Amusement and recreation services	79	63.4	4.7	2.2	1.6	2.5	4.5	2.1	1.5	2.4
Health services	80	363.6	6.6	3.8	1.8	2.8	6.1	3.6	1.7	2.5
Nursing and personal care facilities	805	49.0	14.6	10.9	4.8	3.8	14.4	10.9	4.8	3.5
Hospitals	806	172.1	7.2	3.5	--	--	--	3.4	--	--
Educational services	82	38.7	2.8	1.1	0.7	1.7	2.7	1.1	0.7	1.7
Colleges and universities	822	15.7	4.0	1.5	1.0	2.5	3.9	1.4	0.9	2.5
Social services	83	88.8	7.2	3.5	1.3	3.8	6.9	3.3	1.1	3.7
State and local government		566.8	5.9	2.9	2.0	3.0	5.7	2.8	1.9	2.9
State government		141.9	4.3	2.0	1.2	2.3	4.1	1.9	1.1	2.1
Services		92.9	3.5	1.9	0.9	1.7	3.3	1.8	0.8	1.5
Educational services	82	67.7	2.6	1.2	0.6	1.4	2.4	1.1	0.5	1.3
Social services	83	11.5	4.8	2.9	1.2	1.9	4.6	2.8	1.1	1.8
Public administration		--	5.9	2.3	1.9	3.6	5.6	2.1	1.7	3.4
Justice, public order, and safety	92	23.0	9.2	3.1	2.8	6.2	8.8	2.8	2.5	6.0
Administration of human resources	94	8.6	1.6	0.9	0.6	0.8	1.5	0.9	0.6	0.6
Local government		424.9	6.6	3.3	2.3	3.4	6.4	3.2	2.2	3.2
Construction		5.8	15.5	5.9	4.5	9.7	13.3	5.6	4.3	7.7
Services		280.2	5.2	2.5	1.7	2.7	5.0	2.4	1.6	2.6
Nursing and personal care facilities	805	5.6	18.0	13.9	4.8	4.1	17.0	13.5	4.5	3.5
Hospitals	806	14.7	9.5	4.9	2.7	4.6	8.8	4.6	2.5	4.1
Educational services	82	258.3	4.5	2.0	1.5	2.4	4.4	2.0	1.4	2.4

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Table 6. Incidence rates¹ of nonfatal occupational injuries and illnesses by industry and selected case types, 2000 -- Continued

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Elementary and secondary schools	821	238.5	4.8	2.2	1.6	2.7	4.7	2.1	1.5	2.6
Public administration		134.7	8.0	4.1	3.1	3.9	7.8	4.0	3.0	3.8
Executive, legislative, and general	91	122.8	8.2	4.2	3.3	4.0	7.9	4.1	3.2	3.9

¹ 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
 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

² Totals include data for industries not shown separately.

³ *Standard Industrial Classification Manual*, 1987 Edition.

⁴ Employment is expressed as an annual average and is derived primarily from the BLS-State Covered Employment and Wages program.

⁵ Total lost workday cases involve days away from work, or days of restricted work activity, or both.

⁶ Days-away-from-work cases include those which result in days away from work with or without restricted work activity.

⁷ Excludes farms with fewer than 11 employees.

⁸ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor; and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

⁹ Incidence rate less than 0.05.

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

n.e.c. = not elsewhere classified.

-- Indicates data not available.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Survey of Occupational Injuries and Illnesses, in cooperation with participating State agencies.