Table 6. Incidence rates' of nonfatal occupational injuries and illnesses by industry and selected case types, 1999

Michigan

			In	ijuries an	d Illnesse	s		Inju	ries	
Industry ²	SIC	1999 Annual average employ- ment ⁴ (000's)			orkday ses	Cases		Lost workday cases		Cases
	code ³		Total cases	Total ⁵	With days away from work ⁶	without lost work- days	Total cases	Total ⁵	With days away from work ⁶	without lost work- days
All Industries including State and local government ⁷		4,443.7	7.8	3.8	1.8	4.0	6.9	3.4	1.6	3.5
Private Industry ⁷		3.893.6	8.1	3.9	1.8	4.2	7.0	3.4	1.6	3.6
Agriculture, forestry, and fishing ⁷		45.0	9.0	4.3	2.9	4.7	8.1	4.1	2.7	4.0
Agricultural production ⁷ Agricultural services	01-02 07		9.5 8.7	4.7 4.1	1.9 3.4	4.7 4.6	8.4 7.9	4.7 3.8	1.9 3.2	3.8 4.1
Mining ⁸		7.2	6.2	3.3	2.0	3.0	5.9	3.1	1.9	2.8
Construction		193.9	8.3	3.6	3.0	4.7	8.0	3.5	2.8	4.6
General building contractors Residential building construction Nonresidential building construction Heavy construction, except building Heavy construction, except highway Special trade contractors Plumbing, heating, air-conditioning Electrical work Masonry, stonework, and plastering Carpentry and floor work Roofing, siding, and sheet metal work Concrete work Miscellaneous special trade contractors	15 152 154 16 162 17 171 173 174 175 176 177	26.2 17.2 15.0 10.7 135.2 30.9 26.9 14.8 12.6 7.7	6.6 4.9 9.1 11.7 12.3 8.5 8.9 7.5 8.4 9.1 13.2 7.8 8.1	2.7 1.9 3.9 5.2 5.7 3.8 2.4 3.2 4.4 3.6 7.3 4.6 4.0	2.2 1.6 3.0 4.3 4.6 3.1 2.0 2.4 3.7 3.6 6.1 3.8 3.1	3.9 3.0 5.2 6.5 6.6 4.7 6.5 4.3 5.5 6.0 3.2 4.2	6.2 4.3 8.9 11.1 11.5 8.2 8.7 7.4 7.7 9.0 12.8 7.6 8.0	6.9	1.3 2.9 4.2 4.6 2.9 1.8 2.3 3.1 3.5 5.7	5.2 5.9 5.9 4.7 6.4 4.3 3.9
Manufacturing		975.2	13.5	6.4	2.2	7.1	10.5	5.1	1.9	5.3
Durable goods		741.8	14.4	6.5	2.2	8.0	11.2	5.2	1.8	6.0
Lumber and wood products Millwork, plywood and structural members Furniture and fixtures Office furniture Partitions and fixtures Wood partitions and fixtures Stone, clav, and class products Products of purchased class Concrete, cypsum, and plaster products Primary metal industries Blast furnace and basic steel products Blast furnaces and steel mills Iron and steel foundries Grav and ductile iron foundries Nonferrous foundries (castings) Fabricated metal products Cutlery, handtools, and hardware Hardware, n.e.c. Fabricated structural metal products Sheet metal work Screw machine products, bolts, etc.	24 243 25 252 254 2541 32 323 331 3312 3321 336 34 342 3429 3444 3444	6.8 43.0 21.0 4.5 2.1 21.3 8.6 6.3 37.5 11.8 8.5 10.3 7.0 129.9 5.6 4.4 16.0 5.0	15.0 17.5 11.7 12.9 23.7 17.6 16.8 16.2 14.5 11.7	8.5 4.9 11.3 10.8 7.5 7.8 9.6 7.9 6.0 7.0	4.0 5.3 2.9 1.3 3.3 1.4 2.3 1.6 4.6 3.7 2.0 1.7 5.0 4.8 2.5 4.3 3.7 3.0 3.0 3.4	5.9 8.5 9.0 7.1 8.0 12.3 12.0 10.1 9.0 6.6 6.5 5.7 6.2	10.7 14.0 12.7 9.8 11.0 9.1 10.0 9.1 15.9 10.4 11.2 21.5 21.1 16.4 15.0 13.7 12.5 10.7 11.2	6.5 4.4 8.4 5.2 4.4 4.5 6.48 4.2 4.6 9.9 7.1 6.9 7.6 5.3 5.4	2.1 1.3 4.4 3.4 1.9 1.6 4.4 4.3 2.5 2.2 3.2 2.8 2.9 2.7	4.8 6.1 5.4 2.6 2.9 5.7 4.6 8.5 8.1 6.7 11.7 9.3 8.0 6.0 5.9

Table 6. Incidence rates' of nonfatal occupational injuries and illnesses by industry and selected case types, 1999 -- Continued

Michigan

			Ir	juries an	d Illnesse	es		Inju	ries	
Industry ²	SIC	1999 Annual average employ- ment ⁴ (000's)			orkday ses	Cases		Lost workday cases		Cases
	code ³		Total cases	Total ⁵	With days away from work ⁶	without lost work- days	Total cases	Total ⁵	With days away from work ⁶	without lost work- days
Screw machine products Bolts, nuts, rivets, and washers Metal forging and stampings Automotive stampings Metal services, n.e.c. Plating and polishing Metal coating and allied services Miscellaneous fabricated metal products Industrial machinery and equipment Construction and related machinery Metalworking machinery Machine tools, metal cutting types Special dies, tools, iigs and fixtures Machine tool accessories Special industry machinery General industrial machinery Industrial machinery, n.e.c. Carburetors, pistons, rings, valves Industrial machinery, n.e.c. Electronic and other electric equipment Household appliances Electronic components and accessories	3451 3452 346 3465 3471 3479 353 354 3541 3544 3545 3559 3592 3599 369 363 363	7.5 6.9 60.4 54.4 14.6 7.5 7.1 16.6 132.4 9.7 64.0 10.3 7.3 12.4 28.0 6.1 18.9 35.0 8.0	15.7 19.5 20.3 20.0 13.5 12.9 14.1 12.6 10.6 12.4 9.0 9.0 10.1 14.5 12.4 15.8 11.2 10.4 5.6 6.7	7.2 9.5 8.4 8.9 6.9 6.5 5.4 5.9 4.6 6.6 5.3 7.1 9.7 6.5 2.5 3.9	2.6 4.2 1.9 1.7 2.5 2.8 2.1 2.8 2.4 2.0 2.1 2.3 3.0 4.2 2.8 2.1 2.3 3.0 4.2 2.8 2.7	8.5 10.0 11.9 11.7 5.6 4.0 7.2 6.5 4.4 3.0 5.5 2.8 4.8 7.2 4.9 5.4 6.2 4.9 3.1 2.8	13.9 19.0 18.0 17.7 11.6 11.4 11.9 9.6 11.7 8.7 9.9 5.1 9.5 10.5 10.5 6.8	6.3 9.2 7.5 7.4 6.8 7.8 6.1 5.6 4.5 5.1 6.2 7.5 3.5 3.5	2.3 3.9 1.7 1.5 1.9 2.1 1.7 2.5 2.2 1.8 2.1 2.4 2.3 2.5 2.7 2.6 3.2 2.6 1.3 0.5	9.7 10.5 10.3 4.8 3.5 6.1 4.6 6.1 4.3 3.0 5.3 2.6 4.4 6.2 4.3 3.4 4.7 3.6 2.7
Miscellaneous electrical equipment and sunnlies Transportation equipment Motor vehicles and equipment Motor vehicles and car bodies Motor vehicle parts and accessories Instruments and related products Measuring and controlling devices Medical instruments and supplies Miscellaneous manufacturing industries	369 37 371 3711 3714 38 382 384	8.2 299.8 288.0 142.2 144.0 16.8 8.8 4.7 8.3	21.4 15.9 16.0 17.6 14.6 6.7 8.7 6.5 9.9	7.3 6.3 6.4 7.3 5.6 2.4 2.1 4.4 5.7	3.2 1.6 1.6 2.1 1.2 0.8 0.9 0.5 1.9	14.0 9.6 9.6 10.3 9.0 4.2 2.1 4.2	9.7 10.4 10.4 11.7 9.2 5.9 8.4 4.7 9.0	4.0 4.4 4.5 5.1 3.9 1.9 2.0 2.8 5.0	0.2	5.9 5.9 6.6 5.3 4.0 1.9
Nondurable goods		233.5	10.3	6.1	2.5	4.3	8.2	4.9	2.0	3.3
Food and kindred products Meat products Dairy products Preserved fruits and vegetables Grain mill products Bakery products Beverages Apparel and other textile products Miscellaneous fabricated textile products Automotive and apparel trimmings Paper and allied products Paper mills Paperboard containers and boxes Printing and publishing Newspapers Books Commercial printing	20 201 202 203 204 205 208 2396 269 262 265 27 271 273 275	5.6 5.6 4.9 20.3 19.8 17.1 20.2 4.9 7.3 42.5 13.8 5.0	13.2 16.4 16.8 17.2 19.1 9.0 5.5 13.1 6.7 6.9 8.5	9.1 12.1 10.3 10.6 11.7	3.4 1.8 3.4 1.6 2.7 3.7 8.0 2.2 2.3 2.1 1.6 2.2 2.2 2.7 2.5 1.9	3.3 4.1 4.3 6.5 6.6 7.3 3.8 3.6 4.1 2.9 3.2	10.6 9.2 10.0 8.2 6.7 11.7 15.1 9.6 10.7 8.3 4.9 12.3 5.7 5.9 7.5	7.1 6.1 7.9 4.7 4.0 8.3 11.0 5.5 5.6 6.2 5.1 1.8 8.9 3.3 3.6 4.6 3.3	1.5 2.5 3.3 7.2 1.3 1.3 2.0 1.5 2.2 2.0 2.4 2.3	3.1 2.1 3.5 2.7 3.4 4.1 3.9 4.0 4.5 3.2 3.1 3.4 2.5 2.3 2.9

Table 6. Incidence rates' of nonfatal occupational injuries and illnesses by industry and selected case types, 1999 -- Continued

Michigan

			Ir	ijuries an	d Illnesse	es		Inju	ries	
	SIC	1999 Annual average employ- ment ⁴ (000's)		Lost workday cases		Cases		Lost workday cases		Cases
Industry ² co	code ³		Total cases	Total⁵	With days away from work ⁶	without lost work- days	Total cases	Total⁵	With days away from work ⁶	without lost work- days
Commercial printing, lithographic Chemicals and allied products Plastics materials and synthetics Drugs Pharmaceutical preparations Rubber and miscellaneous plastics products Miscellaneous plastics products, n.e.c. Plastics products, n.e.c.	2752 28 282 283 2834 30 308 3089	43.5 6.1 14.0 13.2 62.8 52.9	6.0 5.5 3.8 6.3 6.0 12.4 12.6 12.9	2.8 2.4 2.1	1.8 1.0 1.3 1.1 3.1 3.2 3.2	2.4 2.7 1.4 4.2 5.0 5.1 5.0	5.4 4.3 4.1 3.6 10.2 10.6 10.6	3.2 2.5 2.2 1.7 1.3 5.9 6.2 6.2	1.7 0.9 1.0 0.9 2.3 2.4 2.3	2.4 2.3 4.3 4.4
Transportation and public utilities ⁸		170.6	9.6	5.9	3.1	3.7	9.3	5.7	3.0	3.6
Railroad transportation ⁸ Local and interurban passenger transit Trucking and warehousing Transportation by air Transportation services Communications Electric, gas, and sanitary services	40 41 42 45 47 48 49	7.9 47.3 32.7 16.4 31.5	4.5 16.5 10.2 15.5 10.8 4.0 7.2	3.3 9.9 5.5 10.7 7.4 2.7 3.8	2.4 7.9 4.1 4.7 2.4 1.0 1.8	1.2 6.7 4.7 4.8 3.5 1.3 3.4	4.4 16.4 9.9 15.1 10.7 3.8 7.0	3.2 9.8 5.3 10.5 7.3 2.6 3.7	4.6 2.4	6.6 4.6 4.7 3.5 1.2
Wholesale and retail trade		1,056.4	7.0	3.3	1.8	3.6	6.7	3.2	1.7	3.6
Wholesale trade		234.5	8.5	4.1	2.4	4.4	8.1	3.8	2.2	4.2
Wholesale tradedurable goods	50	155.1	7.9	3.4	2.1	4.6	7.5	3.1	2.0	4.4
Wholesale tradenondurable goods	51	79.4	9.7	5.7	3.0	4.0	9.3	5.4	2.7	3.9
Retail trade		822.0	6.3	3.0	1.5	3.4	6.2	2.9	1.4	3.3
Building materials and garden supplies Lumber and other building materials Hardware stores General merchandise stores Food stores Grocery stores Automotive dealers and service stations New and used car dealers Gasoline service stations Apparel and accessory stores Furniture and homefurnishings stores Eating and drinking places Miscellaneous retail	52 521 525 53 54 541 551 551 554 56 57 58 59	35.5 35.7 287.3 101.2	8.8 9.9 8.3 8.5 7.1 7.2 5.7 6.0 4.5 8.3 3.5	6.1 2.8 3.1 2.4 2.2 2.1 1.2 2.6 2.0 1.7	2.5 2.7 1.9 2.0 1.8 1.9 1.4 1.1 0.8 1.8 1.2	3.2 4.3 1.9	3.4	4.6 4.4 5.9 2.7 3.0 2.4 2.2 2.1 0.8 2.6 2.0	1.3 1.1 1.1 0.4 1.8 1.2	4.5 3.7 2.4 4.3 4.1 3.6 2.4 2.2 3.2 4.3 1.8
Finance, insurance, and real estate	22	201.8	1.7	0.9	0.6		1.5	0.9	0.6	
Depository institutions Insurance carriers Real estate	60 63 65	42.2	1.1 1.4 4.7	0.5 0.8 2.8	0.4 0.5 1.7	0.6 0.6 1.9	1.0 1.1 4.4	0.4 0.7 2.8	0.3 0.4 1.7	
Services		1,197.4	4.4	2.1	1.1	2.2	4.1	2.0	1.0	2.1
Hotels and other lodging places	70	37.4	9.9	4.3	1.8	5.5	9.4	4.1	1.7	5.3

Table 6. Incidence rates' of nonfatal occupational injuries and illnesses by industry and selected case types, 1999 -- Continued

Michigan

			In	ijuries an	d Illnesse	s		Inju	ries	
	SIC	1999 Annual average employ- ment ⁴ (000's)	Total cases		orkday ses	Cases		Lost w	orkday ses	Cases without lost work- days
Industry ²	code ³			Total⁵	With days away from work ⁶	without lost work- days	Total cases	Total⁵	With days away from work ⁶	
Personal services Laundry, cleaning, and garment services Auto repair, services, and parking Automotive repair shops Automotive services, except repair Miscellaneous repair services Amusement and recreation services Health services Nursing and personal care facilities Hospitals Educational services Colleges and universities Social services	72 721 75 753 754 76 79 80 805 806 82 822 83	23.4 10.4 13.7 56.1 353.9 47.8 169.1 37.5	3.0 5.9 5.7 4.9 7.1 7.8 7.3 6.3 14.0 7.6 2.1 3.6 6.6	1.8 3.6 2.4 2.1 4.1 3.8 3.9 3.3 9.0 3.8 0.7 1.1 3.3	1.0 1.9 1.3 0.8 3.1 1.9 1.6 3.4 0.6 0.9 1.9	1.2 2.3 3.3 2.8 3.1 4.0 3.3 3.0 5.0 3.8 1.3 2.5 3.4	2.8 5.5 5.5 4.8 6.6 7.7 6.6 5.9 13.5 6.9 2.0 3.5 6.4	1.7 3.3 2.4 2.1 3.9 3.6 3.2 8.9 3.6 0.7 1.0 3.2	0.9 1.7 1.3 0.8 3.0 1.3 1.5 3.4 0.6 0.9 1.8	2.2 3.2 2.7 2.8 3.9 3.0 2.7 4.6 3.3 1.3 2.5
State and local government		550.1	6.1	3.2	2.0	3.0	5.7	3.0	1.9	2.7
State government		139.1	4.3	2.4	1.5	1.9	3.8	2.2	1.4	1.6
Services		90.4	3.4	1.9	0.9	1.5	3.0	1.7	0.9	1.3
Educational services Social services	82 83	65.5 11.0	2.6 4.3	1.3 1.8	0.6 1.3		2.2 3.8	1.2 1.7	0.6 1.3	
Public administration		48.7	6.3	3.6	2.7	2.6	5.6	3.3	2.4	2.2
Justice, public order, and safety Administration of human resources Administration of economic programs	92 94 96		8.7 2.7 4.8	5.4 1.2 2.2	4.1 1.9	3.3 1.4 2.6	7.6 4.6	5.0 1.2 2.1	3.6 1.8	1.3
Local government		411.0	6.9	3.5	2.2	3.5	6.6	3.3	2.1	3.3
Construction		5.6	15.2	6.7	5.0	8.6	13.6	6.3	4.6	7.3
Services		269.4	5.6	2.6	1.7	3.0	5.4	2.5	1.6	2.9
Nursing and personal care facilities Hospitals Educational services Elementary and secondary schools	805 806 82 821	5.6 14.5 247.6 228.4	20.6 9.7 5.0 5.1	15.9 5.0 2.1 2.1	10.0 3.5 1.3 1.3	4.8 4.7 2.8 3.0	20.1 8.8 4.8 4.9	15.4 4.7 2.1 2.0	9.6 3.2 1.2 1.2	4.1 2.8

Table 6. Incidence rates' of nonfatal occupational injuries and illnesses by industry and selected case types, 1999 -- Continued

Michigan

Industry ²		1999 Annual average employ- ment ⁴ (000's)	Ir	njuries an	d Illnesse	es		Injuries			
	SIC		Total cases	Lost workday cases		Cases			orkday ses	Cases	
	code ³			Total ⁵	With days away from work ⁶	without lost work- days	Total cases	Total ⁵	With days away from work ⁶	without lost work- days	
Public administration		132.3	8.7	4.7	3.0	4.0	8.2	4.4	2.8	3.8	
Executive, legislative, and general Administration of human resources	91 94	119.3 7.7	8.7 6.6	4.6 5.2			8.3 	4.4 4.9			

 $^{^1}$ 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).

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.

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.