

REPORT TO THE LEGISLATURE

**OCCUPATIONAL INJURIES, ILLNESSES
AND FATALITIES IN MICHIGAN**

Developed by
Michigan Occupational Safety and Health Administration (MIOSHA)
Michigan Department of Energy, Labor & Economic Growth

January 2010

MICHIGAN OCCUPATIONAL INJURIES, ILLNESSES AND FATALITIES

JANUARY 2010

INTRODUCTION

The information that follows is presented in response to Section 317 of Public Act 251 of 2009. This section requires that the Department of Energy, Labor & Economic Growth, Michigan Occupational Safety and Health Administration (MIOSHA), provide an annual report by February 1 of each year "...to the appropriate house and senate appropriations subcommittees and the fiscal agencies on the number of individuals injured on the job within industries related to MIOSHA during the preceding calendar year."

“PROGRAM-RELATED” FATALITIES

The agency records “program-related” fatalities. In general, this means that the incident related to the fatality may have resulted from a hazard or hazards that occurred based upon a failure to adhere to one or more Michigan Occupational Safety and Health Administration (MIOSHA) requirements. There were 24 such fatalities in Michigan during calendar year 2009. (See following table for data and definitions.)

WORKPLACE INJURIES AND ILLNESSES

A complete census of occupational illnesses and injuries for Michigan does not exist. However, the agency cooperates with the U.S. Bureau of Labor Statistics to sample Michigan’s employers to produce annual estimates of the number of occurrences of work-related illness and injuries. The 2009 survey collected the 2008 illness and injury occurrences of 7,000 Michigan employers. The employer sample was stratified by industry and the results were used to project total occurrence estimates. The seven-page table that follows the fatality data presents the results. Footnotes at the end of the table provide additional information about the methodology used. The sample excludes self-employed individuals, railroads, selected mining industries and the federal government.

INQUIRIES

Questions about these data may be directed to the Management Information Systems Section, MTSD, Michigan Occupational Safety and Health Administration (MIOSHA) (517) 322-1850.

**MIOSHA Program-Related Fatalities
Calendar Year 2009**

General Industry Safety and Health	14
<u>Construction Safety and Health</u>	<u>10</u>
TOTAL	24

Note: Data current as of 01/31/10.

Source: Management Information Systems Section, MTSD, Michigan Department of Energy, Labor & Economic Growth

NOTE: A fatality is recorded as “program-related” if the deceased party was employed in an occupation included in MIOSHA jurisdiction as defined in Public Act 154 of 1974, as amended, and the fatality appears to be related to one or more of the following conditions:

1. The incident was found to have resulted from violations of MIOSHA safety and health standards or the general duty clause.
2. The incident was considered to be the result of a failure to follow a good safety and health practice that would be the subject of a safety and health recommendation.
3. The information describing the incident is insufficient to make a clear distinction between a “program-related” and “non-program-related” incident, but the type and nature of the injury indicates that there is a high probability that the injury was the result of a failure to adhere to one or more MIOSHA standards, the general duty clause, or good safety and health practice.

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2008

Michigan

(In thousands)

Industry ¹	NAICS code ²	2008 Average annual employment 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 government⁵		4,069.5	145.0	72.2	36.7	35.5	72.8
Private industry⁵		3,527.5	124.4	61.6	30.1	31.5	62.8
Goods-producing⁵		786.9	44.5	22.2	10.4	11.8	22.2
Natural resources and mining^{5,6}		27.1	1.2	0.5	0.4	0.2	0.6
Agriculture, forestry, fishing and hunting⁵	11	20.8	1.0	0.4	0.3	0.2	0.5
Crop production ⁵	111	12.2	0.3	0.1	0.1	(⁹)	0.2
Animal production ⁵	112	4.6	0.4	0.2	0.1	(⁹)	0.2
Support activities for agriculture and forestry	115	2.3	0.2	0.1	0.1	0.1	(⁹)
Mining⁶	21	6.3	0.2	0.1	0.1	(⁹)	0.1
Construction		160.5	6.3	3.2	2.5	0.8	3.0
Construction	23	160.5	6.3	3.2	2.5	0.8	3.0
Construction of buildings	236	36.9	1.0	0.5	0.3	0.2	0.5
Heavy and civil engineering construction	237	16.3	0.6	0.3	0.2	0.1	0.4
Specialty trade contractors	238	107.3	4.6	2.4	2.0	0.4	2.2
Manufacturing		599.3	37.1	18.5	7.6	10.9	18.6
Manufacturing	31-33	599.3	37.1	18.5	7.6	10.9	18.6
Food manufacturing	311	34.0	2.0	1.2	0.5	0.7	0.8
Beverage and tobacco product manufacturing	312	4.6	0.4	0.3	0.1	0.2	0.1
Textile product mills	314	2.2	0.2	0.2	--	(⁹)	(⁹)
Leather and allied product manufacturing	316	1.0	0.1	0.1	(⁹)	(⁹)	(⁹)
Wood product manufacturing	321	9.8	0.8	0.5	0.3	0.2	0.3

See footnotes at end of table.

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2008 -- Continued

Michigan

(In thousands)

Industry ¹	NAICS code ²	2008 Average annual employment 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	
Paper manufacturing	322	13.4	0.7	0.4	0.2	0.2	0.3
Printing and related support activities	323	17.3	0.6	0.3	0.2	0.2	0.3
Petroleum and coal products manufacturing	324	1.5	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)
Chemical manufacturing	325	27.9	0.7	0.4	0.2	0.2	0.3
Plastics and rubber products manufacturing	326	38.9	2.2	1.2	0.4	0.8	1.0
Nonmetallic mineral product manufacturing	327	12.9	0.7	0.4	0.2	0.2	0.3
Primary metal manufacturing	331	24.3	1.8	0.8	0.5	0.3	1.0
Fabricated metal product manufacturing	332	79.6	6.3	3.0	1.5	1.5	3.3
Machinery manufacturing	333	69.0	4.5	2.0	0.8	1.2	2.5
Computer and electronic product manufacturing	334	21.1	0.5	0.2	0.1	0.1	0.3
Transportation equipment manufacturing	336	186.9	12.6	5.9	2.0	3.9	6.6
Furniture and related product manufacturing	337	24.5	1.4	0.8	0.3	0.5	0.7
Miscellaneous manufacturing	339	18.2	0.8	0.4	0.1	0.2	0.4
Service-providing		2,740.6	79.9	39.3	19.7	19.6	40.6
Trade, transportation, and utilities⁸		777.2	28.4	16.5	8.6	7.9	11.9
Wholesale trade	42	168.7	5.2	2.9	1.8	1.1	2.4
Merchant wholesalers, durable goods	423	96.0	3.1	1.6	1.3	0.3	1.5
Merchant wholesalers, nondurable goods	424	48.1	1.8	1.1	0.4	0.8	0.7
Wholesale electronic markets and agents and brokers	425	24.6	0.4	0.2	0.1	0.1	0.2
Retail trade	44-45	484.8	15.7	8.9	4.4	4.5	6.7
Motor vehicle and parts dealers	441	56.6	1.8	0.7	0.4	0.3	1.2
Electronics and appliance stores	443	16.8	0.2	0.1	(⁹)	0.1	0.1
Building material and garden equipment and supplies dealers	444	42.7	1.9	1.2	0.4	0.8	0.7
Food and beverage stores	445	80.7	4.2	2.5	1.4	1.0	1.7
Gasoline stations	447	24.8	0.3	0.1	0.1	(⁹)	0.2
Clothing and clothing accessories stores	448	41.5	0.7	0.3	0.2	0.1	0.4
Sporting goods, hobby, book, and music stores	451	23.8	0.4	0.3	0.1	0.1	0.2
General merchandise stores	452	111.7	4.1	2.7	1.0	1.6	1.4
Miscellaneous store retailers	453	26.5	0.5	0.3	0.2	(⁹)	0.3
Nonstore retailers	454	9.5	0.2	0.1	0.1	(⁹)	0.1

See footnotes at end of table.

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2008 -- Continued

Michigan

(In thousands)

Industry ¹	NAICS code ²	2008 Average annual employment 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	
Transportation and warehousing⁸	48-49	103.4	6.8	4.4	2.2	2.1	2.5
Air transportation	481	14.5	1.3	1.0	0.4	0.6	0.4
Rail transportation ⁸	482	--	0.1	0.1	0.1	(⁹)	(⁹)
Water transportation	483	0.6	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)
Truck transportation	484	40.7	2.4	1.4	1.1	0.4	0.9
Transit and ground passenger transportation	485	5.4	0.2	0.1	0.1	0.1	(⁹)
Support activities for transportation	488	15.0	1.0	0.6	0.2	0.4	0.4
Couriers and messengers	492	12.3	0.9	0.5	0.2	0.3	0.4
Warehousing and storage	493	13.3	1.0	0.7	0.2	0.5	0.3
Utilities	22	20.3	0.7	0.4	0.2	0.2	0.3
Utilities	221	20.3	0.7	0.4	0.2	0.2	0.3
Information		61.4	1.6	1.1	0.6	0.5	0.5
Information	51	61.4	1.6	1.1	0.6	0.5	0.5
Publishing industries (except Internet)	511	21.8	0.3	0.1	0.1	0.1	0.1
Financial activities		203.0	3.5	1.6	1.1	0.5	1.9
Finance and insurance	52	150.2	2.3	1.0	0.9	0.1	1.3
Insurance carriers and related activities	524	55.1	0.7	0.4	0.3	0.1	0.2
Real estate and rental and leasing	53	52.7	1.2	0.7	0.3	0.4	0.6
Real estate	531	36.2	0.7	0.4	0.2	0.2	0.3
Rental and leasing services	532	15.7	0.6	0.3	0.1	0.2	0.3
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0.8	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)
Professional and business services		570.5	7.5	3.4	1.6	1.8	4.1

See footnotes at end of table.

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2008 -- Continued

Michigan

(In thousands)

Industry ¹	NAICS code ²	2008 Average annual employment 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	
Professional, scientific, and technical services	54	245.5	2.7	0.7	0.2	0.5	1.9
Management of companies and enterprises	55	55.3	0.8	0.4	0.2	0.2	0.4
Administrative and support and waste management and remediation services	56	269.7	4.0	2.3	1.2	1.1	1.8
Administrative and support services	561	258.3	3.2	1.9	0.9	0.9	1.3
Waste management and remediation services	562	11.4	0.8	0.4	0.3	0.2	0.4
Education and health services		583.3	25.2	10.8	5.0	5.8	14.4
Educational services	61	62.1	0.8	0.3	0.2	0.1	0.6
Educational services	611	62.1	0.8	0.3	0.2	0.1	0.6
Health care and social assistance	62	521.2	24.3	10.5	4.8	5.7	13.8
Ambulatory health care services	621	179.4	3.3	1.4	0.7	0.7	1.9
Hospitals	622	188.9	13.1	4.5	2.2	2.3	8.6
Nursing and residential care facilities	623	94.1	6.3	4.0	1.5	2.5	2.3
Social assistance	624	58.9	1.6	0.6	0.4	0.2	1.0
Leisure and hospitality		414.4	11.0	4.7	2.1	2.6	6.3
Arts, entertainment, and recreation	71	64.4	1.3	0.6	0.4	0.3	0.6
Performing arts, spectator sports, and related industries	711	9.6	0.2	0.1	0.1	(⁹)	0.1
Museums, historical sites, and similar institutions	712	4.3	0.2	0.1	(⁹)	(⁹)	0.1
Amusement, gambling, and recreation industries	713	50.5	0.9	0.5	0.3	0.2	0.4
Accommodation and food services	72	350.0	9.7	4.1	1.8	2.3	5.7
Accommodation	721	40.9	2.0	1.1	0.5	0.5	0.9
Food services and drinking places	722	309.1	7.7	3.0	1.2	--	4.8
Other services		130.9	2.8	1.1	--	0.5	1.6

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Other services, except public administration	81	130.9	2.8	1.1	--	0.5	1.6
Personal and laundry services	812	39.7	0.8	0.3	0.1	0.2	0.5
Religious, grantmaking, civic, professional, and similar organizations	813	47.5	0.7	0.2	0.1	0.2	0.5
State and local government		542.0	20.6	10.6	6.6	4.0	10.0
State government		140.1	5.1	2.4	1.4	1.0	2.7
Service-providing		140.1	5.1	2.4	1.4	1.0	2.7
Education and health services		97.7	3.6	1.2	0.6	0.6	2.4
Educational services	61	72.7	1.9	0.5	0.3	0.2	1.3
Educational services	611	72.7	1.9	0.5	0.3	0.2	1.3
Health care and social assistance	62	25.0	1.7	0.7	0.3	0.4	1.0
Hospitals	622	--	1.4	0.5	0.2	0.3	0.9
Nursing and residential care facilities	623	--	0.2	0.2	0.1	(⁹)	0.1
Public administration		40.4	1.5	1.1	0.8	0.3	0.3
Public administration	92	40.4	1.5	1.1	0.8	0.3	0.3
Justice, public order, and safety activities	922	18.7	1.1	0.8	0.6	0.3	0.2
Local government		401.9	15.4	8.2	5.1	3.1	7.2
Goods-producing⁵		5.3	0.5	0.3	0.3	(⁹)	0.2
Service-providing		396.6	14.9	7.9	4.9	3.0	7.0
Trade, transportation, and utilities⁸		5.3	0.4	0.2	0.2	0.1	0.2

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Michigan

(In thousands)

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				Total	Cases with days away from work ⁴	Cases with job transfer or restriction	
Transportation and warehousing⁸	48-49	4.0	0.3	0.2	0.1	--	0.1
Transit and ground passenger transportation	485	3.8	0.3	0.2	0.1	--	0.1
Utilities	22	1.3	0.1	0.1	(⁹)	(⁹)	(⁹)
Utilities	221	1.3	0.1	0.1	(⁹)	(⁹)	(⁹)
Education and health services		259.9	8.4	4.4	2.8	1.6	4.1
Educational services	61	237.1	7.0	3.7	2.3	1.4	3.3
Educational services	611	237.1	7.0	3.7	2.3	1.4	3.3
Health care and social assistance	62	22.7	1.4	0.7	0.4	0.2	0.8
Hospitals	622	13.7	0.7	0.2	0.2	0.1	0.5
Nursing and residential care facilities	623	6.6	0.7	0.4	0.3	0.1	0.3

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Public administration		123.7	5.8	3.1	1.9	1.2	2.6
Public administration	92	123.7	5.8	3.1	1.9	1.2	2.6

¹ Totals include data for industries not shown separately.

² *North American Industry Classification System* -- United States, 2002 Edition

³ Employment is expressed as an annual average and is derived primarily from the BLS-State Quarterly Census of Employment and Wages.

⁴ Days-away-from-work cases include those that result in days away from work with or without job transfer or restriction.

⁵ Excludes farms with fewer than 11 employees.

⁶ Data for mining (Sector 21 in the *North American Industry Classification System* -- United States, 2002) 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.

⁷ Data for mining operators in this industry are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded. 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.

⁸ Data for employers in rail transportation are provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation.

⁹ Data too small to be displayed.

NOTE: Because of rounding, components may not add to totals. Dash indicates data do not meet publication guidelines.

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