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STATE OF MICHIGAN  
DEPARTMENT OF LABOR & ECONOMIC GROWTH  
Michigan Occupational Safety & Health Administration  
(MIOSHA)

ROBERT W. SWANSON  
DIRECTOR

## MEMORANDUM

**DATE:** January 16, 2007

**TO:** Brenda Perry  
Financial Analyst

**FROM:** Martha Yoder *myd*  
Acting Director

**SUBJECT:** Legislative Report

Section 317 of the '05 budget boilerplate requires that by February 1, a report is provided to the appropriate house and senate appropriations subcommittees and the fiscal agencies "on the number of individuals killed and the number of individuals injured on the job within industries regulated by MIOSHA during the preceding calendar year."

Attached is the report that includes the 2006 "program-related" fatality counts and the number of occupational injuries and illnesses by industry projected from the 2005 U. S. Bureau of Labor Statistics (BLS) survey. As you know, employers are not required to report all occupational injuries and illnesses. Therefore, the data that most closely approximate "individuals injured" are the data from the survey that was conducted during 2006 and reports 2005 injuries and illnesses.

Please call if you have any questions or need additional information.

Attachment

cc: John Peck  
Robert Clark  
Kevin Caslavka  
Doug Kalinowski  
Robert Swanson

**REPORT TO THE LEGISLATURE**

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

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

January 2007

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

**JANUARY 2007**

## **INTRODUCTION**

The information that follows is presented in response to Section 317 of Public Act 156 of 2005. This section requires that the Department of Labor and 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 50 such fatalities in Michigan during calendar year 2006. (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 2006 survey collected the 2005 illness and injury occurrences of 7,400 Michigan employers. The employer sample was stratified by industry and the results were used to project total occurrence estimates. The six 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 2006**

<b>General Industry Safety and Health</b>	<b>26</b>
<b><u>Construction Safety and Health</u></b>	<b><u>24</u></b>
<b>TOTAL</b>	<b>50</b>

**Note:** Data current as of 01/11/06.

**Source:** Management Information Systems Section, MTSD, Michigan Department of Labor and 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, 2005

(in thousands)

## Michigan

Industry <sup>1</sup>	NAICS code <sup>2</sup>	2005 Average annual employment <sup>3</sup>	Total recordable cases	Cases with days away from work, job transfer or restriction			Other recordable cases
				Total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
All industries including State and local government <sup>5</sup>		4,223.8	193.8	34.4	46.0	48.3	95.4
Private industry <sup>5</sup>		3,645.7	161.7	31.1	37.9	43.2	80.6
Goods producing <sup>5</sup>		898.1	70.0	37.1	15.7	21.4	32.8
Natural resources and mining <sup>5a</sup>		26.8	1.2	0.5	0.3	0.5	0.7
Agriculture, forestry, fishing and hunting <sup>5</sup>	11	20.2	1.0	0.4	0.5	0.1	0.6
Crop production <sup>5</sup>	111	12.7	0.4	0.2	0.1	0.1	0.2
Animal production <sup>5</sup>	112	3.2	—	0.2	0.1	—	—
Mining <sup>5</sup>	21	6.7	0.2	0.1	( <sup>6</sup> )	( <sup>6</sup> )	0.1
Construction		188.7	9.9	4.8	3.6	1.2	5.1
Construction of buildings	23	188.7	9.9	4.8	3.6	1.2	5.1
Construction of buildings	236	45.2	1.5	0.8	—	0.1	0.9
Heavy and civil engineering construction	237	18.4	1.4	1.0	0.7	0.3	0.4
Specialty trade contractors	238	125.0	6.9	3.1	2.5	0.8	3.8
Manufacturing		682.6	58.9	31.9	11.7	20.1	27.1
Food manufacturing	31-33	682.6	58.9	31.9	11.7	20.1	27.1
Beverage and tobacco product manufacturing	311	32.8	2.4	1.4	0.5	0.6	1.0
Textile mill	312	4.6	0.6	0.4	0.1	0.3	0.2
Textile product mills	314	2.4	0.1	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	0.4
Wood product manufacturing	32	11.4	1.0	0.5	0.3	0.2	0.4
Paper manufacturing	322	14.8	1.1	0.7	0.4	0.3	0.4
Printing and related support activities	323	18.0	0.7	0.4	0.2	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, 2005 -- Continued

## Michigan

(In thousands)

Industry <sup>1</sup>	NAICS code <sup>2</sup>	2005 Average annual employment <sup>3</sup>	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
Petroleum and coal products manufacturing .....	324	1.5	0.1	( <sup>5</sup> )	--	--	0.1
Chemical manufacturing .....	325	29.4	1.0	0.6	0.2	0.3	0.4
Plastics and rubber products manufacturing .....	326	42.8	4.6	2.5	0.8	1.8	2.2
Nonmetallic mineral product manufacturing .....	327	16.3	1.4	0.8	0.3	0.5	0.6
Primary metal manufacturing .....	331	27.1	2.3	1.0	0.3	0.7	--
Fabricated metal product manufacturing .....	332	84.1	8.3	4.6	2.2	2.3	3.8
Machinery manufacturing .....	333	75.4	6.2	2.9	1.3	1.6	3.3
Computer and electronic product manufacturing .....	334	19.9	0.5	0.3	0.1	0.2	0.2
Electrical equipment, appliance, and component manufacturing .....	335	13.8	0.5	0.3	0.1	0.2	0.2
Transportation equipment manufacturing .....	336	242.2	25.1	14.0	4.4	9.6	11.1
Furniture and related product manufacturing .....	337	26.7	2.9	0.9	0.3	0.6	1.1
Miscellaneous manufacturing .....	339	17.6	0.9	0.4	0.2	0.2	0.5
<b>Service providing .....</b>		<b>2,747.2</b>	<b>91.7</b>	<b>43.9</b>	<b>22.2</b>	<b>21.8</b>	<b>47.8</b>
<b>Trade, transportation, and utilities<sup>6</sup> .....</b>		<b>798.5</b>	<b>34.4</b>	<b>18.8</b>	<b>9.0</b>	<b>9.8</b>	<b>15.6</b>
<b>Wholesale trade .....</b>	<b>42</b>	<b>169.4</b>	<b>7.1</b>	<b>4.1</b>	<b>2.1</b>	<b>2.0</b>	<b>2.9</b>
Merchant wholesalers, durable goods .....	423	95.9	3.0	1.1	0.7	0.4	1.9
Merchant wholesalers, nondurable goods .....	424	49.3	3.6	2.7	1.3	1.4	0.9
Wholesale electronic markets and agents and brokers .....	425	24.2	0.5	0.4	0.2	--	0.1
<b>Retail trade .....</b>	<b>44-45</b>	<b>606.6</b>	<b>17.4</b>	<b>8.0</b>	<b>3.9</b>	<b>5.1</b>	<b>8.4</b>
Motor vehicle and parts dealers .....	441	61.3	1.9	1.0	0.6	0.3	1.0
Furniture and home furnishings stores .....	442	18.3	0.7	0.4	0.3	0.2	0.3
Electronics and appliance stores .....	443	17.9	0.4	0.2	0.1	0.1	0.2
Building material and garden equipment and supplies dealers .....	444	46.1	2.0	0.8	0.3	0.3	1.4
Food and beverage stores .....	445	85.3	2.8	1.6	0.5	1.1	1.1
Health and personal care stores .....	446	33.0	0.6	0.2	0.1	0.1	0.3
Gasoline stations .....	447	25.6	0.5	0.3	0.2	0.1	0.3
Clothing and clothing accessories stores .....	448	41.4	0.6	0.1	0.1	( <sup>5</sup> )	0.5
Sporting goods, hobby, book, and music stores .....	451	24.2	0.5	0.2	0.1	0.1	0.3
General merchandise stores .....	452	114.6	6.7	3.0	1.3	2.6	2.8
Miscellaneous store retailers .....	453	29.5	0.4	0.3	0.2	0.1	0.1

See footnotes at end of table.

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2005 – Continued

## Michigan

(in thousands)

Industry <sup>1</sup>	NAICS code <sup>2</sup>	2005 Average annual employment <sup>3</sup>	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
Nonstore retailers .....	454	9.4	0.3	0.2	0.1	0.1	0.1
<b>Transportation and warehousing<sup>5</sup></b> .....	48-49	101.8	9.0	5.2	2.6	2.5	3.8
Air transportation .....	481	15.2	1.4	1.0	0.3	0.6	0.4
Rail transportation <sup>6</sup> .....	482	--	0.1	0.1	0.1	( <sup>10</sup> )	( <sup>11</sup> )
Truck transportation .....	484	37.1	3.3	1.8	1.3	0.5	1.5
Transit and ground passenger transportation .....	485	4.9	0.3	0.1	0.1	( <sup>12</sup> )	0.1
Pipeline transportation .....	486	1.2	0.1	0.1	( <sup>13</sup> )	( <sup>14</sup> )	0.1
Scenic and sightseeing transportation .....	487	0.4	( <sup>15</sup> )	( <sup>16</sup> )	( <sup>17</sup> )	( <sup>18</sup> )	( <sup>19</sup> )
Support activities for transportation .....	488	14.3	0.8	0.6	0.4	0.2	0.2
Couriers and messengers .....	492	12.5	1.2	0.7	0.2	0.5	0.4
<b>Utilities</b> .....	22	23.7	0.9	0.5	0.3	0.2	0.4
Utilities .....	221	20.7	0.9	0.6	0.3	0.2	0.4
<b>Information</b> .....		67.1	1.4	0.8	0.5	0.3	0.6
Information .....	51	67.1	1.4	0.8	0.5	0.3	0.6
Publishing industries (except internet) .....	511	24.7	0.6	0.4	0.1	0.2	0.2
Telecommunications .....	517	22.1	0.7	0.4	0.3	0.1	0.3
<b>Financial activities</b> .....		212.8	4.2	2.0	1.1	0.9	2.3
<b>Finance and insurance</b> .....	52	156.9	4.4	0.8	0.4	0.1	0.6
Monetary authorities - central bank .....	521	0.3	( <sup>20</sup> )	( <sup>21</sup> )	( <sup>22</sup> )	( <sup>23</sup> )	( <sup>24</sup> )
Credit intermediation and related activities .....	522	85.8	0.7	0.3	0.2	--	0.4
Insurance carriers and related activities .....	524	56.4	0.6	0.2	0.1	0.1	0.4
<b>Real estate and rental and leasing</b> .....	53	56.0	2.6	1.5	0.7	0.8	1.3
Real estate .....	531	38.3	2.0	1.1	0.4	0.6	0.9
Rental and leasing services .....	532	15.9	0.8	0.4	0.3	0.2	0.4

See footnotes at end of table.

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2005 -- Continued

## Michigan

(In thousands)

Industry <sup>1</sup>	NAICS code <sup>2</sup>	2005 Average annual employment <sup>2</sup>	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
Lessors of nonfinancial intangible assets (except copyrighted works) .....	533	0.8	( <sup>10</sup> )	( <sup>10</sup> )	( <sup>10</sup> )	( <sup>10</sup> )	( <sup>10</sup> )
<b>Professional and business services</b> .....		589.1	10.2	4.8	4.0	0.8	5.5
Professional, scientific, and technical services .....	54	246.5	3.4	1.3	0.9	0.4	2.2
Management of companies and enterprises .....	55	65.6	1.1	0.5	0.4	0.2	0.6
Administrative and support and waste management and remediation services .....	56	--	--	--	--	--	--
Waste management and remediation services .....	562	11.5	0.9	0.5	0.3	0.2	0.3
<b>Education and health services</b> .....		549.4	27.0	12.2	5.0	7.2	14.6
Educational services .....	61	59.1	0.7	0.2	0.1	0.1	0.5
Educational services .....	611	59.1	0.7	0.2	0.1	0.1	0.5
<b>Health care and social assistance</b> .....		490.3	26.3	12.1	4.9	7.1	14.2
Ambulatory health care services .....	621	165.5	2.9	1.1	0.4	0.6	1.8
Hospitals .....	622	181.1	13.8	5.4	2.2	3.2	8.4
Nursing and residential care facilities .....	623	88.9	6.9	4.3	1.6	2.7	2.6
Social assistance .....	624	54.7	2.7	1.3	0.7	0.6	1.4
<b>Leisure and hospitality</b> .....		401.4	10.9	3.7	1.8	1.9	7.2
Arts, entertainment, and recreation .....	71	61.0	2.7	1.2	0.5	0.6	1.5
Amusement, gambling, and recreation industries .....	713	48.1	1.8	0.7	0.5	0.2	1.1
<b>Accommodation and food services</b> .....		340.4	8.3	2.6	1.2	1.4	5.8
Accommodation .....	721	33.9	2.0	0.9	0.4	0.5	1.1
Food services and drinking places .....	722	306.5	6.3	1.7	0.8	0.8	4.7
<b>Other services</b> .....		128.8	3.6	1.7	0.9	0.8	1.9

See footnotes at end of table



Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2005 -- Continued

(In thousands)

Michigan

Industry <sup>1</sup>	NAIOS excl. <sup>2</sup>	2005 Average annual employment <sup>3</sup>	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
				Total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
Other services, except public administration .....	51	128.8	3.6	1.7	0.9	0.8	1.8
Repair and maintenance .....	811	41.2	1.8	0.8	0.4	0.4	1.0
Personal and laundry services .....	812	40.5	1.1	0.6	0.2	0.4	0.5
Religious, grantmaking, civic, professional and similar organizations .....	813	47.1	0.7	0.3	0.3	( <sup>5</sup> )	0.4
State and local government .....		578.6	32.0	13.3	8.2	5.1	18.7
State government .....		137.5	4.3	1.8	1.1	0.8	2.5
Service providing .....		137.5	4.3	1.8	1.1	0.6	2.5
Education and health services .....		93.4	3.2	1.2	0.6	0.6	2.0
Educational services .....	61	69.7	1.3	0.5	0.3	0.3	0.8
Educational services .....	611	89.7	1.3	0.5	0.3	0.3	0.8
Health care and social assistance .....	62	23.7	1.8	0.7	0.3	0.4	1.2
Health care and social assistance .....							
Public administration .....			1.1	0.6	0.5	0.1	0.5
Public administration .....	92	--	1.1	0.6	0.5	0.1	0.5
Justice, public order, and safety activities .....	922	19.9	0.7	0.4	0.3	0.1	0.3
Administration of economic programs .....	926	8.0	0.2	0.1	0.1	( <sup>5</sup> )	0.1
Local government .....		441.2	27.7	11.5	7.1	4.4	16.2
Goods producing <sup>5</sup> .....		5.7	--	0.5	0.4	0.1	--
Construction .....		--	--	0.5	0.4	0.1	--
Service providing .....		435.5	26.7	11.0	6.7	4.3	18.7

State footnotes at end of table

Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2005 -- Continued

(In thousands)

## Michigan

Industry <sup>1</sup>	NAICS code <sup>2</sup>	2006 Average annual nonfatal <sup>3</sup>	Total recordable cases	Cases with days away from work, job transfer, or restriction <sup>4</sup>			Other recordable cases
				Total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
Trade, transportation, and utilities <sup>5</sup>		5.5	0.6	0.3	0.3	0.1	0.3
Transportation and warehousing <sup>6</sup>	48 49	4.2	0.5	0.3	0.2		0.3
Utilities	22	-	0.1	0.1	( <sup>7</sup> )	( <sup>8</sup> )	0.1
Financial activities		0.2	( <sup>1</sup> )	( <sup>9</sup> )	( <sup>10</sup> )	( <sup>11</sup> )	( <sup>12</sup> )
Education and health services	2840	16.3	5.8	3.4	2.4		10.5
Educational services	61	252.0	14.2	4.6	2.8	18	-
Educational services	611	262.0	14.2	4.6	2.8	18	-
Health care and social assistance	62	22.0	2.1	1.2	0.6	0.6	0.9
Hospitals	622	13.6	1.1	0.4	0.3	0.2	0.6
Nursing and residential care facilities	623	6.2	1.0	0.7	0.3	0.4	0.3
Leisure and hospitality		8.9	0.8	0.6	( <sup>13</sup> )	0.6	0.2
Public administration		131.7	8.8	4.3	3.0	1.3	4.5
Public administration	92	131.7	8.8	4.3	3.0	1.3	4.5

See footnotes at end of table

**Table 2. Numbers of nonfatal occupational injuries and illnesses by selected industries and case types, 2005 – Continued**

(in thousands)

**Michigan**

Industry	NAICS code <sup>2</sup>	2005 average annual employment <sup>3</sup>	Total recordable cases	Cases with days away from work, job transfer or restriction			Other recordable cases
				Total	Cases with days away from work <sup>4</sup>	Cases with job transfer or restriction	
Executive, legislative, and other general government support, Administration of human resource programs	921 923	119.3 7.5	8.2 0.5	4.0 0.2	2.8 0.1	1.2 0.1	4.2 0.3

Totals include data for industries not shown separately

<sup>1</sup> *North American Industry Classification System -- United States, 2002 Edition*

<sup>2</sup> Employment is expressed as an annual average and is derived primarily from the BLS State Quarterly Census of Employment and Wages

<sup>3</sup> Days-away-from-work cases include those that result in days away from work with or without job transfer or restriction

<sup>4</sup> Excludes farms with fewer than 11 employees

<sup>5</sup> 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

<sup>6</sup> 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.

<sup>7</sup> Data for employers in rail transportation are provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation

<sup>8</sup> Fewer than 50 cases

<sup>9</sup> Fewer than 15 cases.

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

-- 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.