

# Michigan: 2002

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## 2002 Economic Census

*Mining*

Geographic Area Series



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U.S. Department of Commerce  
Economics and Statistics Administration  
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-- Not applicable for this report.

**Table 1. Industry Statistics for the State or Offshore Areas: 2002**

[Offshore areas refer to those areas not associated with a state. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production, development, and exploration workers			Value added (\$1,000)	Total cost of supplies (\$1,000)	Total value of shipments and receipts for services (\$1,000)	Capital expenditures (\$1,000)
			Total	With 20 employees or more	For pay period including March 12 <sup>3</sup>	Annual payroll (\$1,000)	For pay period including March 12	Annual hours (1,000)	Annual wages (\$1,000)				
<b>21</b>	<b>MICHIGAN</b>												
	<b>Mining . . . . .</b>	<b>2</b>	<b>446</b>	<b>76</b>	<b>5 747</b>	<b>257 997</b>	<b>4 551</b>	<b>8 658</b>	<b>201 421</b>	<b>967 604</b>	<b>604 761</b>	<b>1 427 350</b>	<b>145 015</b>
211	Oil and gas extraction . . . . .	3	99	19	1 082	49 283	728	1 264	31 630	352 928	147 824	427 758	72 994
2111	Oil and gas extraction . . .	3	99	19	1 082	49 283	728	1 264	31 630	352 928	147 824	427 758	72 994
21111	Oil and gas extraction .	3	99	19	1 082	49 283	728	1 264	31 630	352 928	147 824	427 758	72 994
211111	Crude petroleum and natural gas extraction . . . . .	4	88	16	926	41 363	586	970	24 431	339 964	87 977	360 879	67 062
211112	Natural gas liquid extraction . . . . .	1	11	3	156	7 920	142	294	7 199	12 964	59 847	66 879	5 932
212	Mining (except oil and gas) . . . . .	1	203	31	3 189	156 913	2 723	5 252	131 342	446 474	417 508	830 609	33 373
2122	Metal ore mining . . . . .	-	6	2	g	D	D	D	D	D	D	D	563
21221	Iron ore mining . . . . .	-	5	2	g	D	D	D	D	D	D	D	D
212210	Iron ore mining . . . . .	-	5	2	g	D	D	D	D	D	D	D	D
21223	Copper, nickel, lead, and zinc mining . . . . .	9	1	-	a	D	D	D	D	D	D	D	D
212234	Copper ore and nickel ore mining . . . . .	9	1	-	a	D	D	D	D	D	D	D	D
2123	Nonmetallic mineral mining and quarrying . . . . .	2	197	29	g	D	D	D	D	D	D	D	32 810
21231	Stone mining and quarrying . . . . .	2	29	11	f	D	D	D	D	D	D	D	12 085
212311	Dimension stone mining and quarrying . . . . .	4	2	-	b	D	D	D	D	D	D	D	D
212312	Crushed and broken limestone mining and quarrying . . . . .	2	21	11	655	30 402	558	1 261	25 473	103 477	50 169	141 804	11 842
212319	Other crushed and broken stone mining and quarrying . . . . .	1	6	-	25	960	21	47	809	4 456	D	5 546	D
21232	Sand, gravel, clay, and ceramic, and refractory minerals mining and quarrying . . . . .	2	159	13	1 163	49 961	893	1 772	34 646	160 939	67 836	210 983	17 792
212321	Construction sand and gravel mining . . . . .	2	149	9	979	42 990	744	1 462	29 607	133 718	57 190	174 809	16 099
212322	Industrial sand mining . . . . .	-	7	3	c	D	D	D	D	D	D	D	D
212325	Clay and ceramic and refractory minerals mining . . . . .	9	3	1	b	D	D	D	D	D	D	D	D
21239	Other nonmetallic mineral mining and quarrying . . . . .	-	9	5	c	D	D	D	D	D	D	D	2 933
212393	Other chemical and fertilizer mineral mining . . . . .	-	1	1	b	D	D	D	D	D	D	D	D
212399	All other nonmetallic mineral mining . . . . .	-	8	4	c	D	D	D	D	D	D	D	D
213	Support activities for mining . . . . .	6	144	26	1 476	51 801	1 100	2 142	38 449	168 202	39 429	168 983	38 648
2131	Support activities for mining . . . . .	6	144	26	1 476	51 801	1 100	2 142	38 449	168 202	39 429	168 983	38 648
21311	Support activities for mining . . . . .	6	144	26	1 476	51 801	1 100	2 142	38 449	168 202	39 429	168 983	38 648
213111	Drilling oil and gas wells . . . . .	7	41	8	429	17 036	348	687	12 408	82 558	16 043	70 732	27 869
213112	Support activities for oil and gas operations . . . . .	6	94	18	1 005	33 010	721	1 389	24 724	81 464	20 647	92 289	9 822
213113	Support activities for coal mining . . . . .	9	3	-	a	D	D	D	D	D	D	D	22
213114	Support activities for metal mining . . . . .	9	3	-	a	D	D	D	D	D	D	D	D
213115	Support activities for nonmetallic minerals (except fuels) mining . . . . .	2	3	-	28	1 311	21	49	990	3 185	D	4 691	D

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative record data account for 10 percent or more of the figures shown: 1-10 to 19 percent; 2-20 to 29 percent; 3-30 to 39 percent; 4-40 to 49 percent; 5-50 to 59 percent; 6-60 to 69 percent; 7-70 to 79 percent; 8-80 to 89 percent; 9-90 percent or more.

<sup>2</sup>Includes establishments of companies with payroll at any time during the year.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Detailed Statistics for the State or Offshore Areas: 2002**

[Offshore areas refer to those areas not associated with a state. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>MICHIGAN</b>	
Companies <sup>1</sup> .....	402
All establishments <sup>2</sup> .....	446
Establishments with 0 to 19 employees .....	370
Establishments with 20 to 99 employees .....	70
Establishments with 100 employees or more .....	6
All employees for pay period including March 12 .....	5 747
Total compensation .....	\$1,000.. 332 719
Annual payroll .....	\$1,000.. 257 997
Annual fringe benefits not included in payroll .....	\$1,000.. 74 722
Production, development, and exploration workers for pay period including March 12 .....	4 551
Production, development, and exploration worker annual hours .....	1,000.. 8 658
Production, development, and exploration worker annual wages .....	\$1,000.. 201 421
Total cost of supplies .....	\$1,000.. 604 761
Supplies used, minerals received, and purchased machinery installed .....	\$1,000.. 409 359
Resales .....	\$1,000.. 15 254
Purchased fuels consumed .....	\$1,000.. 46 583
Purchased electricity .....	\$1,000.. 76 518
Contract work .....	\$1,000.. 57 047
Quantity of electricity purchased .....	1,000 kWh.. 2 356 226
Quantity of electricity generated less sold .....	1,000 kWh.. -
Total other expenses .....	\$1,000.. 58 193
Response coverage ratio <sup>3</sup> .....	percent.. 38
Communications services .....	\$1,000.. 1 908
Legal services .....	\$1,000.. 1 240
Accounting, auditing, and bookkeeping services .....	\$1,000.. 1 075
Advertising and promotional services .....	\$1,000.. 465
All other expenses (not included above) .....	\$1,000.. 53 505
Total value of shipments and receipts for services .....	\$1,000.. 1 427 350
Value of resales .....	\$1,000.. 17 627
Value added .....	\$1,000.. 967 604
Total inventories, end of 2001 .....	\$1,000.. 142 175
Mineral products, crude petroleum, and natural gas liquids inventories .....	\$1,000.. 69 956
Supplies, parts, fuels, etc., inventories .....	\$1,000.. 72 219
Total inventories, end of 2002 .....	\$1,000.. 113 938
Mineral products, crude petroleum, and natural gas liquids inventories .....	\$1,000.. 49 790
Supplies, parts, fuels, etc., inventories .....	\$1,000.. 64 148
Capital expenditures (except land and mineral rights) .....	\$1,000.. 145 015
Capital expenditures for buildings, structures, machinery, and equipment (new and used) .....	\$1,000.. 110 779
Capital expenditures for mineral exploration and development <sup>4</sup> .....	\$1,000.. 34 236
Capital expenditures for mineral land and rights <sup>5</sup> .....	\$1,000.. D
Total rental payments during year .....	\$1,000.. 48 071
Buildings and other structures .....	\$1,000.. 6 335
Machinery and equipment .....	\$1,000.. 41 736

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>A response coverage ratio is derived for this item by calculating the ratio of the employment for those establishments that reported this item to the total employment for all establishments classified in this industry.

<sup>4</sup>Excludes data for support activities for mining subsector and natural gas liquid extraction industries where data were not collected.

<sup>5</sup>Excludes data for support activities for mining subsector and oil and gas extraction industries where data were not collected.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 3. Industry Statistics by Type of Operation for the State or Offshore Areas: 2002**

[Offshore areas refer to those areas not associated with a state. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Geographic area and type of operation	All establishments <sup>1</sup>		All employees		Production, development, and exploration workers			Value added (\$1,000)	Total value of shipments and receipts for services (\$1,000)
	Total	With 20 employees or more	For pay period including March 12	Annual payroll (\$1,000)	For pay period including March 12	Annual hours (1,000)	Annual wages (\$1,000)		
<b>MICHIGAN</b>									
Sector 21, Mining									
All establishments .....	446	76	5 747	257 997	4 551	8 658	201 421	967 604	1 427 350
Producing establishments .....	443	75	5 721	256 994	4 533	8 633	200 781	D	1 427 350
Mines or wells only .....	108	17	1 089	46 363	720	1 209	28 420	355 276	380 291
Underground mines .....	—	—	—	—	—	—	—	—	—
Open-pit mines .....	21	2	183	5 766	148	257	4 442	15 312	19 412
Combination mines, well operations, or other types of mines .....	87	15	906	40 597	572	952	23 978	339 964	360 879
Mines with preparation plants .....	84	25	2 614	134 281	2 257	4 352	113 768	368 097	732 729
Underground mines .....	1	1	b	D	D	D	D	D	D
Open-pit mines .....	82	24	h	D	D	D	D	D	D
Combination mines or other types of mines .....	1	—	a	D	D	D	D	D	D
Separately operated preparation plants .....	9	3	150	7 683	138	287	7 012	D	66 879
Undistributed <sup>2</sup> .....	242	30	1 868	68 667	1 418	2 785	51 581	231 267	247 451
Nonproducing establishments .....	3	1	26	1 003	18	25	640	D	—

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Includes data for establishments that were not possible to classify based on information available.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.