

Michigan Mineral  
Producers  
1974

1975  
Annual Report 8

Geological Survey Division  
Department of Natural Resources

COVER PHOTO:

The cover photo depicts technical personnel from the Department of Natural Resources-Geological Survey Division and the Institute of Minerals Research at Michigan Technological University manning a diamond core drill in Chippewa County. Personnel from these two organizations are working together in a cooperative effort to define potential reserves of high quality limestone in the eastern Upper Peninsula.

This operation is being duplicated many times throughout the United States. Geological surveys are being undertaken in a valid attempt to locate, prove-up, and inventory our potential mineral reserves. Such exploration is expensive. It must be intensive in concept and extensive in scope to lead to successful discovery and development prior to extraction and use. The old adage "gold is where you find it" is equally true for any mineral used by industrial man.

Mineral resources are the result of complicated geologic processes that have taken place over the last three billion years. These minerals were concentrated into deposits without regard to civil boundaries or aesthetic considerations. Because of this selective deposition, a mineral resource must be extracted from where it is found and not always from where we would like to see a mine or quarry located. After the mineral is extracted and the deposit becomes depleted, another nonrenewable deposit must be found.

The developer of a potential mineral deposit must take into consideration critical cost factors such as distance and transportation to and from the market, environmental restrictions and the mining methods employed in extracting and processing the mineral commodity. The nearer a resource is to its market, the more economical the price will be to a potential consumer. The highly industrialized United States utilizes an extraordinary quantity of raw mineral commodities each day to support a high standard of living. To ensure that adequate supplies of mineral commodities will be available to support this standard of living in future years and at reasonable costs, we must initiate long term land use practices as soon as possible. Known and potential mineral deposits must be delineated, inventoried, and reserved for the unique contribution they will make to the economic, social and cultural well-being of the country now and in the years to come.

A sequential use of a site can be obtained that will be beneficial to all parties involved through sound land use practices. Today's farm or forest may be reserved for tomorrow's extractive quarry. If properly planned ahead of time these sites may be reclaimed for agricultural, residential, commercial or recreational use.

Diamond core drilling is the beginning step in promoting further exploration and development of mineral resources vital to our well-being and national security. As minerals become dearer--due to depletion or artificial restrictions on their extraction--and the cost continues to climb--pricing more and more people out of the marketplace--our standard of living will inevitably decline.

J. D. Lewis,  
Geologist

# MICHIGAN MINERAL PRODUCERS

## 1974

GEOLOGICAL SURVEY DIVISION

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ANNUAL DIRECTORY 8

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By

Jerry D. Lewis

STATE OF MICHIGAN  
William G. Milliken, *Governor*

DEPARTMENT OF NATURAL RESOURCES  
Dr. David H. Jenkins, *Acting Director*

GEOLOGICAL SURVEY DIVISION  
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. . . the State Geological Survey shall make an annual report to the Governor, setting forth in detail the mineral statistics for the year; with the progress and development . . . mining and smelting industries.

--Compiled Laws Mich. 1948 s.319.202

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PREFACE

Michigan Mineral Producers is a yearly compilation of the names and addresses of active mines, pits and quarries, and the location of operations during 1974 based on information supplied by the United States Bureau of Mines. This directory is prepared as a direct supplement to "Mineral Industry of Michigan" published annually in cooperation with the U. S. Bureau of Mines.

This directory is intended primarily as a general reference to be used by the mineral industry, students, teachers, state and county officials and other interested persons. The directory lists producers alphabetically by mineral, with a producer location map for most sections. Mineral producers are also listed alphabetically by county including location by section, township and range. This year several new maps, charts and tables have been added to give the reader a better understanding of Michigan's mineral production.

The compiler is indebted to the Michigan mineral industry for their excellent cooperation and to the U. S. Bureau of Mines who have been indispensable in providing up-to-date producer lists based on yearly canvasses.

My appreciation is extended to Messrs. Irvin Kuehner, Tom Segall and Harry Sorensen of the Michigan Geological Survey for their assistance and suggestions in putting together this directory. In addition, special appreciation is given to Miss Esther A. Middlewood of the U. S. Bureau of Mines Lansing Liaison Office, and Mrs. Lynda Craft of the Michigan Geological Survey Division for updating listings, securing and compiling tabulations, and for manuscript preparation.

As in previous years, corrections, additions, or suggestions for improving this directory are welcome, and solicited in order to make the directory more effective in accomplishing its purpose.

Lansing,  
January, 1975

Jerry D. Lewis  
Geologist  
Mining Economics Section

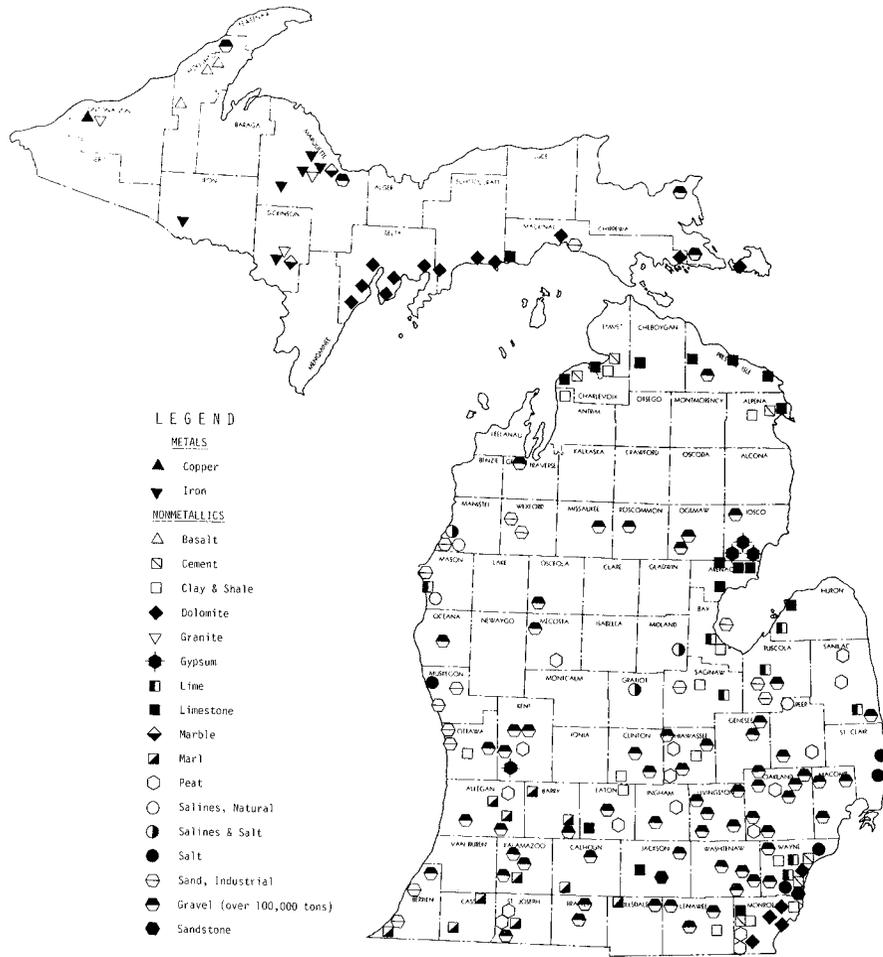
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# MICHIGAN MINERAL OPERATIONS

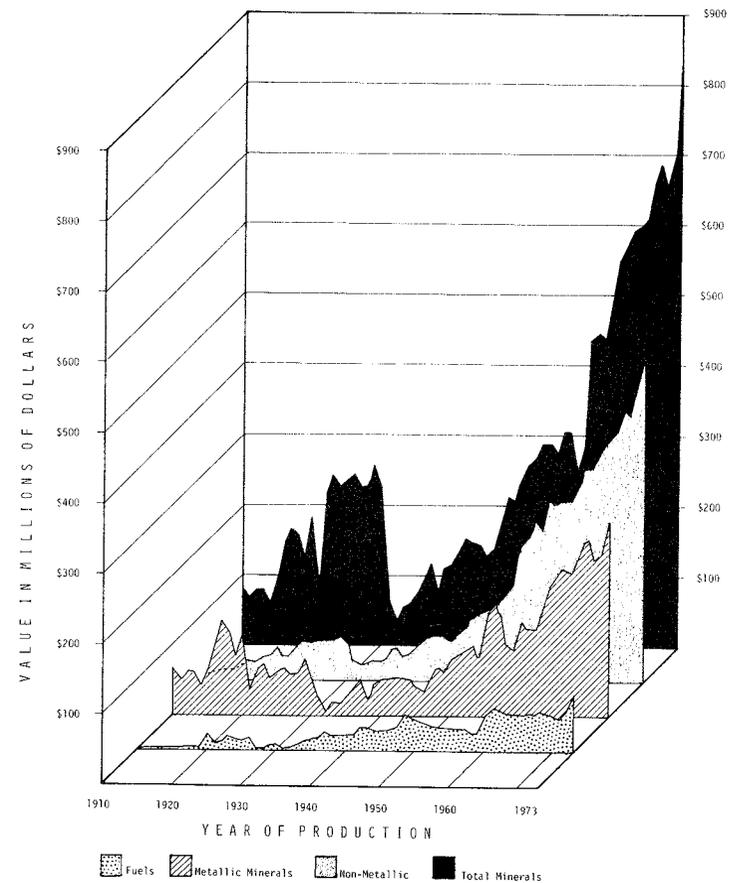


# INTRODUCTION

The value of Michigan's mineral production continued to climb for the tenth straight year. The continued increase set a new record valued at \$816,949,698. This is more than an \$18 million increase over the previous record high of \$698,511,340 set in 1972 (refer to Figure below).

The three leading commodities in terms of value, were iron ore (\$180,158,168), cement (\$129,627,462) and natural salines (\$121,086,076) respectively (refer to Table on opposite page). Marquette led all counties with a total mineral production valued at slightly over \$147 million dollars. The second and third leading counties respectively were Ontonagon with nearly \$9.7 million and Wayne with almost \$68 million dollars.

VALUE OF MINERALS MINED IN MICHIGAN : 1910 - 1973



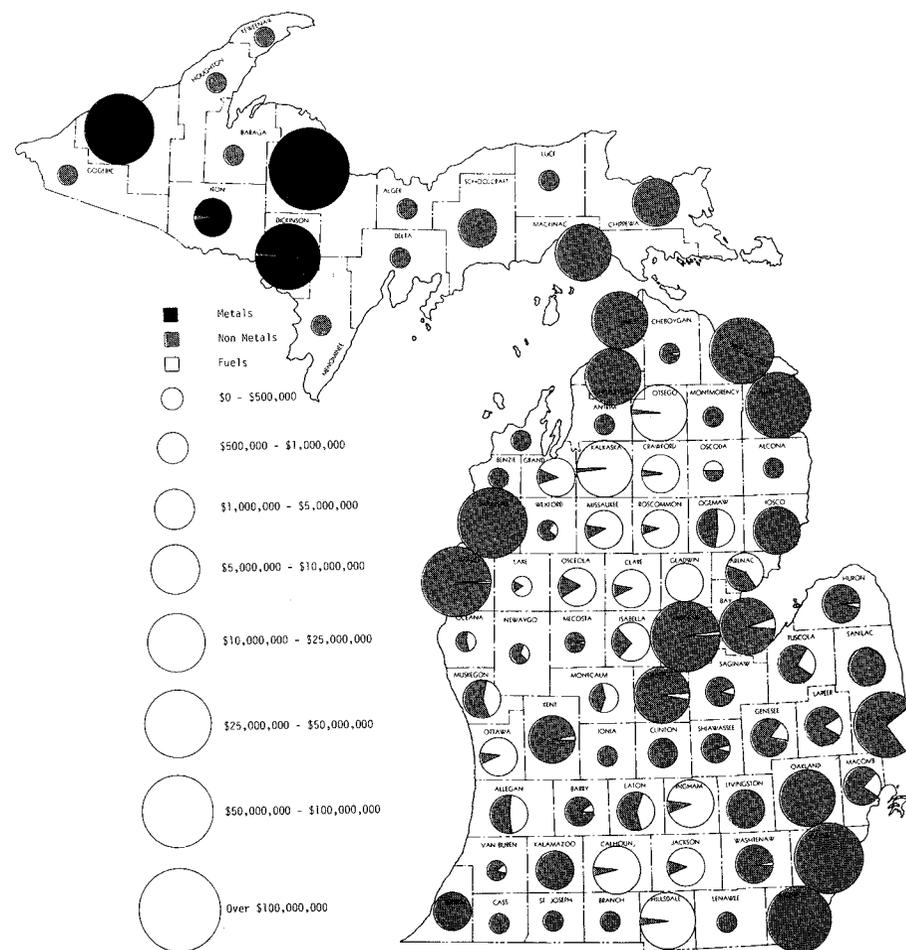
## MINERAL PRODUCTION OF MICHIGAN - 1973

Compiled by the Geological Survey Division

MINERAL	UNIT	QUANTITY	VALUE	PERCENT CHANGE RANK IN		
				FROM 1972 IN:	U.S. FOR	
				Quantity	Value	1972 (Value)
Iron Ore	Long tons (2240#)	12,314,156	180,158,168	+4.1	+8.9	2
Cement	Short tons	6,489,071	129,627,462	+5.5	+10.7	4
Petroleum	Barrels (42 gal.)	14,529,952	59,572,808	+11.9	+43.3	16
Sand & Gravel	St. Tons (2000#)	62,555,000	74,231,000	+10.4	+13.4	2
Nat. Salines (1)	Short Tons	1,107,440	121,086,076	-9.3	+15.7	1
Copper	Pounds	151,678,939	94,192,621	+15.0	+41.0	6
Salt	Short Tons	4,817,742	53,732,454	+10.6	+5.9	5
Stone (2)	Short Tons	26,953,751	40,767,941	+18.1	+24.4	14
Lime	Short Tons	1,545,207	26,055,177	+2.8	+15.1	5
Nat. Gas	Th. Cu. Ft. (MCF)	43,704,215	17,306,473	+30.2	+39.3	15
Gypsum (crude)	Short Tons	1,882,257	8,538,453	+14.1	+17.5	1
Clay & Shale (3)	Short Tons	2,150,706	3,304,398	-14.4	-11.0	5
Nat. Gas Liq.	Gallons	48,742,260	3,314,474	-11.6	-14.1	13
Peat	Short Tons	232,330	2,171,687	+6.0	-8.6	1
Marl	Short Tons	72,681	79,248	-8.3	+2.1	1
Miscellaneous (4)	-	-	2,811,258		+76.2	
<b>TOTAL</b>			<b>816,949,698</b>		<b>+17%</b>	

- (1) Bromine, Magnesium compounds, Calcium-Magnesium chloride, and Iodine.  
 (2) Does not include 17,911,490 short tons of limestone valued at \$18,250,425 used in the manufacture of cement and lime.  
 (3) Tile brick, pottery, clay used for cement, lightweight aggregate, and miscellaneous.  
 (4) Sulfur, mineral pigments, silver.

## MINERAL VALUE DISTRIBUTION BY COUNTY



COUNTY MINERAL VALUATION AND RANK

COUNTY	METALLIC										INDUSTRIAL MINERALS							FUELS			VALUE \$ & RANK
	Copper	Iron Ore	Silver	Cement	Clay	Gypsum	Lime	Marl	Natural Salines	Peat	Salt	Sand, Industrial	Sand & Gravel	Stone	Sulfur	011	Natural Gas	Nat. Gas Liquids			
ALCONA												56						(71) 139,000			
ALGER												61						(77) Confidential			
ALLEGAN							5		7			21			19	17		(50) 1,294,500			
ALPENA					1							41	6					(5) 50,072,137			
ANTRIM					4							53			47			(60) 437,195			
AREMAC												31	11		16			(42) 1,722,813			
BARAGA							4					56			36			(71) Confidential			
BARRY											6	25			15			(58) 573,997			
BAY						3						19						(16) 12,842,253			
BENZIE												79						(82) 20,000			
BERRIEN							7				1	5						(29) Confidential			
BRANCH												40			5	6		(66) Confidential			
CALHOUN							1					55						(24) 5,701,798			
CASS							3					33						(62) Confidential			
CHARLEVOIX												75	12					(13) Confidential			
CHEBOYGAN												72	15					(70) 154,410			
CHIPPewa												47	5					(25) Confidential			
CLARE												63			12	16	8	(44) 1,606,272			
CLINTON												18						(55) 1,035,776			
CRAWFORD												80			7	12	9	(33) 3,383,974			
DELTA												49	17					(67) 303,778			
DICKINSON												48	22					(8) 31,469,620			
EATON		2							11			27	10		32	11	7	(48) 1,348,982			
EMMET												65	9					(15) 12,990,493			
GENESEE												20			28			(53) 1,101,927			
GLADWIN												83			14			(54) 1,097,927			
GOGEBIC												70						(80) Confidential			
GD. TRAVERSE												37			17	5		(36) 2,639,055			
GRATIOT												38		2	45	22		(12) 19,577,426			
HILLSDALE										6		39			3	4	1	(20) 10,395,220			
HOUGHTON												42	18					(65) Confidential			
HURON							6					45	8		48			(49) 1,347,756			
INGHAM									10			23			4			(21) 8,818,983			
IONIA												34						(63) Confidential			
IOSCO						1						22						(22) Confidential			
IRON		3										66						(30) 3,466,134			

ISABELLA												16							(41) 1,820,020
JACKSON												26	14						(27) 4,342,667
KALAMAZOO												13							(45) 1,453,500
KALKASKA												64			2	1	5		(19) 10,588,670
KENT												2			27	21			(23) 5,882,639
Keweenaw												60							(75) 134,000
LAKE												78			20				(61) 436,807
LAPEER												58			23	19			(38) 2,174,063
LELANAU												29							(73) Confidential
LENAWEE												36							(64) 382,000
LIVINGSTON												3							(28) 4,260,000
LUCE												68							(79) 95,000
MAC KINAC												58	2						(18) Confidential
MACOMB												6			46	9			(31) 3,461,136
MANISTEE												29			39				(6) 37,034,876
MARQUETTE		1										15	13						(1) 147,423,548
MASON												4			26				(7) 32,961,305
MECOSTA												35			29	18			(57) 594,871
MENOMINEE												50			21				(69) 213,000
MIDLAND												83			8	10			(4) 59,170,099
MISSAUKEE												76			38				(35) 3,027,653
MONROE												54	3		38				(9) 26,552,659
MONTCALM												46			22				(56) 623,169
MONTMORENCY												73							(81) 59,000
MUSKEGON												9			34				(34) 3,067,700
NEWAYGO												69			35				(74) 135,649
OAKLAND												1			44				(14) 14,897,140
OCEANA												43			30				(59) 458,295
Ogemaw												12			10	14			(32) 3,333,807
ONTONAGON												51	16						(2) 96,659,845
OSCEOLA												31			11		3		(37) 2,557,005
OSCODA												81			43				(83) 15,596
OTSEGO												61			1	8	6		(17) 11,957,333
OTTAWA												64			24	13			(26) 4,751,523
Presque Isle												30	1						(10) 25,735,906
ROSCOMMON												74			13	15			(47) 1,375,354
SAGINAW												14			33				(43) 1,666,320
St. Clair												52			6	2	4		(11) 23,717,829
St. Joseph												44							(68) 297,443
SANTLAC												24							(51) 1,280,501
SCHOOLCRAFT												77	7						(52) 1,253,648
SHAWASSEE												10			41				(40) 1,963,617
TUSCOLA												17			25				(46) 1,411,384
VAN BUREN												66			37				(76) 122,043
WASHTENAW												8			40				(39) 2,111,952
WAYNE												7	4		31				(3) 67,759,419
WEXFORD												71			42	20			(78) 95,102

# MICHIGAN'S IRON AND COPPER DISTRICTS

## Metallic Mining Operations

### Iron Mines and Pits

Range-Dist. & Map Symbol	Mine	Company	Mine Location
<u>MARQUETTE</u>			
(a)	Empire	Cleveland-Cliffs Iron Co. (Operator for Empire Mining Company) 1460 Union Commerce Bldg. Cleveland, Ohio 44114	1 Mi. NW of Palmer, in Secs. 19, 20, 25, 30, T47N, R26W <u>MARQUETTE COUNTY</u>
(b)	Mather	Cleveland-Cliffs Iron Co. (Operator for the Negaunee Mine Company) 1460 Union Commerce Bldg. Cleveland, Ohio 44114	Ishpeming-Negaunee in Secs. 1 & 2, T47N, R27W <u>MARQUETTE COUNTY</u>
(c)	Republic (open pit-pellets)	Cleveland-Cliffs Iron Co. (Operator for the Marquette Mining Company) 1460 Union Commerce Bldg. Cleveland, Ohio 44114	1 Mi. S of Republic in Secs. 7 & 18, T46N, R29W <u>MARQUETTE COUNTY</u>
(d)	Tilden	Cleveland-Cliffs Iron Co. (Operator for Tilden Mining Company) 1460 Union Commerce Bldg. Cleveland, Ohio 44114	3 Mi. S of Ishpeming in Sec. 26, T47N, R27W <u>MARQUETTE COUNTY</u>
<u>IRON RIVER-CRYSTAL FALLS</u>			
(e)	Sherwood	Inland Steel Co. 30 W. Monroe St. Chicago, Illinois 60603	½ Mi. N of Iron River in Secs. 23 & 24, T43N, R35W <u>IRON COUNTY</u>
<u>FELCH</u>			
(f)	Groveland (open pit-pellets)	The Hanna Mining Co. 100 Erieview Plaza Cleveland, Ohio 44114	3 Mi. E of Randville in Sec. 31, T42N, R29W <u>DICKINSON COUNTY</u>
<u>AMASA-OVAL, EAST MENOMINEE, GOGEBIC, GWINN - (Not Active)</u>			

### Copper Mines

#### COPPER SULFIDE ORE

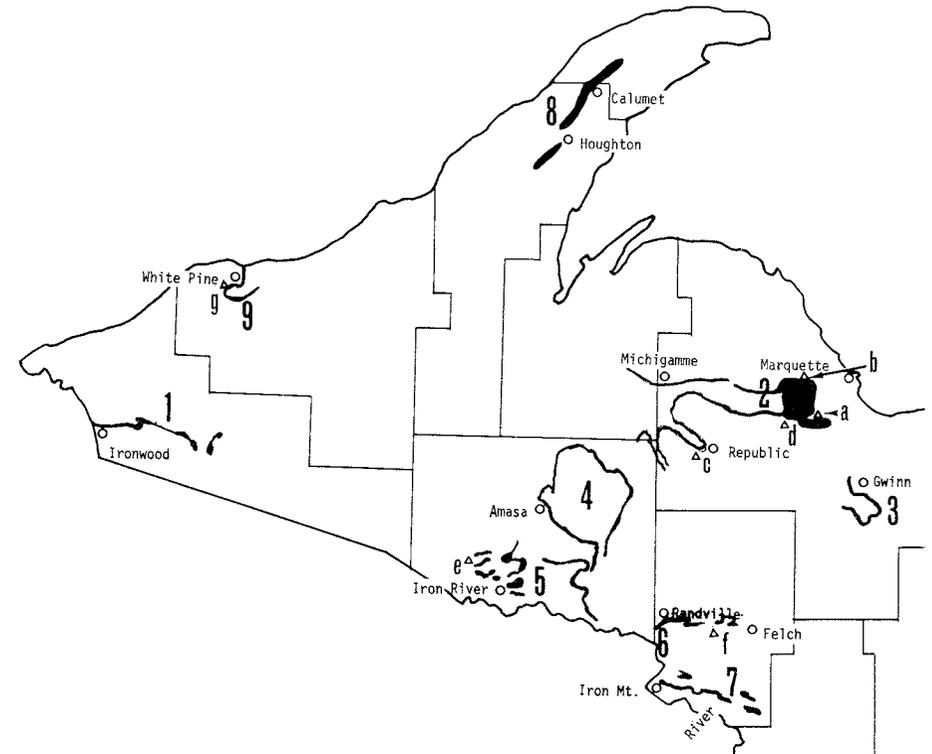
(g)	White Pine	White Pine Copper Co. P. O. Box 427 White Pine, Michigan 49971	White Pine Mich. in Sec. 4, 5, 9, T50N, R42W. <u>ONTONAGON COUNTY</u>
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#### NATIVE COPPER ORE (Not Active)

IRON AND COPPER OUTCROPS

△ MINE LOCATION

○ CITY OR VILLAGE



#### IRON MINES

- GOGEBIC RANGE (not active)
- MARQUETTE RANGE
  - Empire open pit
  - Mather Mine
  - Republic open pit
  - Tilden open pit
- GWINN DISTRICT (not active)
- AMASA-OVAL DISTRICT (not active)

- IRON RIVER-CRYSTAL FALLS DISTRICT
  - Sherwood Mine
- FELCH DISTRICT
  - Groveland open pit
- IRON MOUNTAIN RANGE (not active)

#### COPPER MINES AND RECLAMATIONS

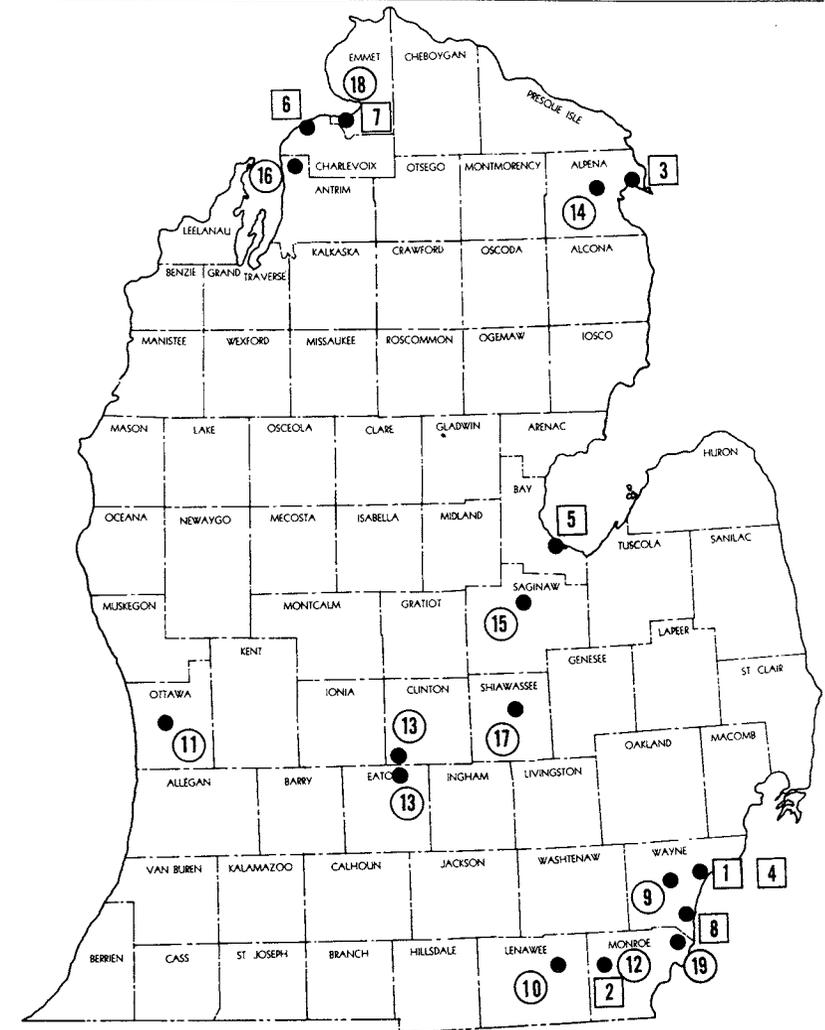
- NATIVE COPPER ORE (not active)
- COPPER SULFIDE ORE
  - White Pine Mine

# Nonmetallic Mineral Operations

## Cement

Name of Operation	Map No. (page 9)	Plant Location
Amcord Cement Div. of Peerless Cement Co. 2000 Executive Plaza Bldg. Detroit, Michigan 48226	(1)	Forman Avenue Plant-Ext. Sec. 28, T2S, R11E; raw materials obtained from Ford Motor Co. clay pit and Rogers City area. <u>WAYNE COUNTY</u>
Dundee Cement Co. P. O. Box 317 Dundee, Michigan 48131	(2)	2 Mi. N of Dundee, Sec. 6, T6S, R7E, plant and quarry. <u>MONROE COUNTY</u>
Huron Cement Div. Div. Nat'l. Gypsum Corp. Plant address: Alpena, Michigan 49707 Office address: 17515 W. Nine Mile Rd. Honeywell Center-12th Fl. Southfield, Michigan 48075	(3)	1.5 Mi. NE of Alpena, in Sec. 13, T31N, R8E, plant and quarry. <u>ALPENA COUNTY</u>
Jefferson Marine Terminal Div. of Edward C. Levy Co. 8800 Dix Avenue Detroit, Michigan 48209	(4)	Jefferson Avenue at Detroit; Process purchased clinker, <u>WAYNE COUNTY</u>
Martin-Marietta Cement Co. Great Lakes Division P. O. Box No. 8 Bay City, Michigan 48076	(5)	3 Mi. NE of Bay City at Essexville, NE $\frac{1}{4}$ Sec. 14, T14N, R5E; raw material obtained from Rogers City area. <u>BAY COUNTY</u>
Medusa Cement Div. of Medusa Corp. Plant address: Charlevoix, Michigan 49720 Office address: Box 5668 Cleveland, Ohio 44101	(6)	2 Mi. W of Charlevoix, C of Sec. 28, T34N, R8W <u>CHARLEVOIX COUNTY</u>
Penn-Dixie Cement Corp. Plant #10 Plant address: Petoskey, Michigan 49770 Office address: P. O. Box 152 Nazareth, PA. 18064	(7)	3.5 Mi. W of Petoskey, (plant and quarry) in Sec. 3, T34N, R6W. <u>EMMET COUNTY</u>
Wayandotte Cement Inc. 3505 Biddle Avenue Wayandotte, Michigan 48192	(8)	Wyandotte, Mich. Process purchased clinker, <u>WAYNE COUNTY</u>

## LOCATIONS OF CLAY AND SHALE--CEMENT OPERATIONS



CEMENT □

CLAY AND SHALE ○

- |                              |                                   |
|------------------------------|-----------------------------------|
| 1. Amcord Cement             | 9. Amcord Co.                     |
| 2. Dundee Cement Co.         | 10. Comfort Brick & Tile          |
| 3. Huron Cement Co.          | 11. Construction Aggregates Corp. |
| 4. Jefferson Marine Terminal | 12. Dundee Cement Co.             |
| 5. Martin-Marietta Cement    | 13. Grand Ledge Clay Prod.        |
| 6. Medusa Cement             | 14. Huron Cement Co.              |
| 7. Penn-Dixie Industries     | 15. Martin-Marietta Cement        |
| 8. BASF Wyandotte Corp.      | 16. Medusa Cement                 |
|                              | 17. Michigan Vitriified Tile      |
|                              | 18. Penn-Dixie Industries         |
|                              | 19. Ritter & Sons                 |

## Clay and Shale

Name of Operation	Map No. (page 9)	Product	Location
Amcord Co. Div. of American Cement Corp. 900 Detroit Trade Center Detroit, Michigan 48226	(9)	Cement	Ford Motor Co. Clay Pit NW $\frac{1}{4}$ Ext. Sec. 36, T2S, R10E <u>WAYNE COUNTY</u>
Comfort Brick & Tile Co. 6393 Rogers Hwy. Tecumseh, Michigan 49286	(10)	Drain tile	Clay pit, 1 Mi. SE of Tecumseh; SE $\frac{1}{4}$ Sec. 2, T6S, R4E <u>LENAWEE COUNTY</u>
Construction Aggregates Corp. P. O. Box 68 Grand Haven, Michigan 49409	(11)	Light-weight aggregate	Clay pit, 4 Mi. W of Eastmanville, in Sec. 7, T7N, R14W <u>OTTAWA COUNTY</u>
Dundee Cement Co. P. O. Box 317 Dundee, Michigan 48131	(12)	Cement	Sec. 6, T6S, R7E, (clay overburden over limestone) <u>MONROE COUNTY</u>
Grand Ledge Clay Products Co. R. R. 1, P. O. Box 66 Grand Ledge, Michigan 48837	(13)	Drain tile, vitrified sewer pipe, flux lining	Shale pits at SE $\frac{1}{4}$ Sec. 3, T4N, R4W, <u>EATON COUNTY</u> and NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 34, T5N, R4W <u>CLINTON COUNTY</u>
Huron Cement Div. Div. of National Gypsum Co. 17515 W. Nine Mile Rd. Honeywell Center-12th Floor Southfield, Michigan 48075	(14)	Cement	Paxton Shale Quarry, 8 Mi. W of Alpena, NE $\frac{1}{4}$ Sec. 30, T31N, R7E <u>ALPENA COUNTY</u>
Martin-Marietta Cement Co. Great Lakes Div. P. O. Box 8 Bay City, Michigan 48706	(15)	Cement	Clay pit, NW $\frac{1}{4}$ Sec. 1, T11N, R3E <u>SAGINAW COUNTY</u>
Medusa Cement Div. Medusa Corp. Box 5668 Cleveland, Ohio 44101	(16)	Cement	Shale pit, SW $\frac{1}{4}$ Sec. 24, T32N, R8W <u>ANTRIM COUNTY</u>
Michigan Vitrified Tile Co. P. O. Box 450 Findlay, Ohio 45840	(17)	Brick	Shale pit, $\frac{1}{2}$ Mi. E of Corunna, Sec. 22, T7N, R3E <u>SHIAWASSEE COUNTY</u>
Penn-Dixie Industries P. O. Box 152 Nazareth, PA. 18064	(18)	Cement	Shale pit, Sec. 8, T34N, R6W <u>EMMET COUNTY</u>
F. W. Ritter & Sons, Co., Inc. 12670 N. Dixie Hwy S. Rockwood, Michigan 48179	(19)	Flower pots	Clay pit, 1 Mi. S of South Rockwood, NE $\frac{1}{4}$ SW $\frac{1}{4}$ , Sec. 16, T5S, R10E <u>MONROE COUNTY</u>

## Gypsum

Name of Operation	Map No. (page 12)	Mine or Quarry Location	Mill Location
Georgia-Pacific Corp. 900 SW Fifth Avenue Portland, Oregon 97204	(1)	SE Grand Rapids in NW $\frac{1}{4}$ Sec. 24, T6N, R11W <u>KENT COUNTY</u>	SW Grand Rapids 2228 Butterworth Rd. SW Grand Rapids, Mich. 49501
Grand Rapids Gypsum Co. 201 Monroe Avenue Grand Rapids, Michigan 49502	(2)	SW side Grand Rapids in Sec. 34, T6N, R12W, Mine & Mill <u>KENT COUNTY</u>	At Mine
Michigan Gypsum Co. 2840 Bay Road Saginaw, Michigan 48601	(3)	4 Mi. SW of National City in Sec. 25, T21N, R5#, open pit and plant. <u>IOSCO COUNTY</u>	E of Pit, in SW $\frac{1}{4}$ Sec. 30, T21N, R6E <u>IOSCO COUNTY</u>
National Gypsum Co. 325 Delaware Avenue Buffalo, New York 14202	(4)	8 Mi. W of Tawas City Sec. 26 & 35, T22N, R6E, open pit. <u>IOSCO COUNTY</u>	2 Mi. S of Nat'l. City Sec. 16, T21N, R6E, <u>IOSCO COUNTY</u>
United States Gypsum Co. 101 S. Wacker Drive Chicago, Illinois 60606	(5)	W of Alabaster, Sec. 22 & 27, T21N, R7E, open pit. <u>IOSCO COUNTY</u>	Detroit, Michigan <u>WAYNE COUNTY</u>

### GYPSUM-HISTORY CAPSULE

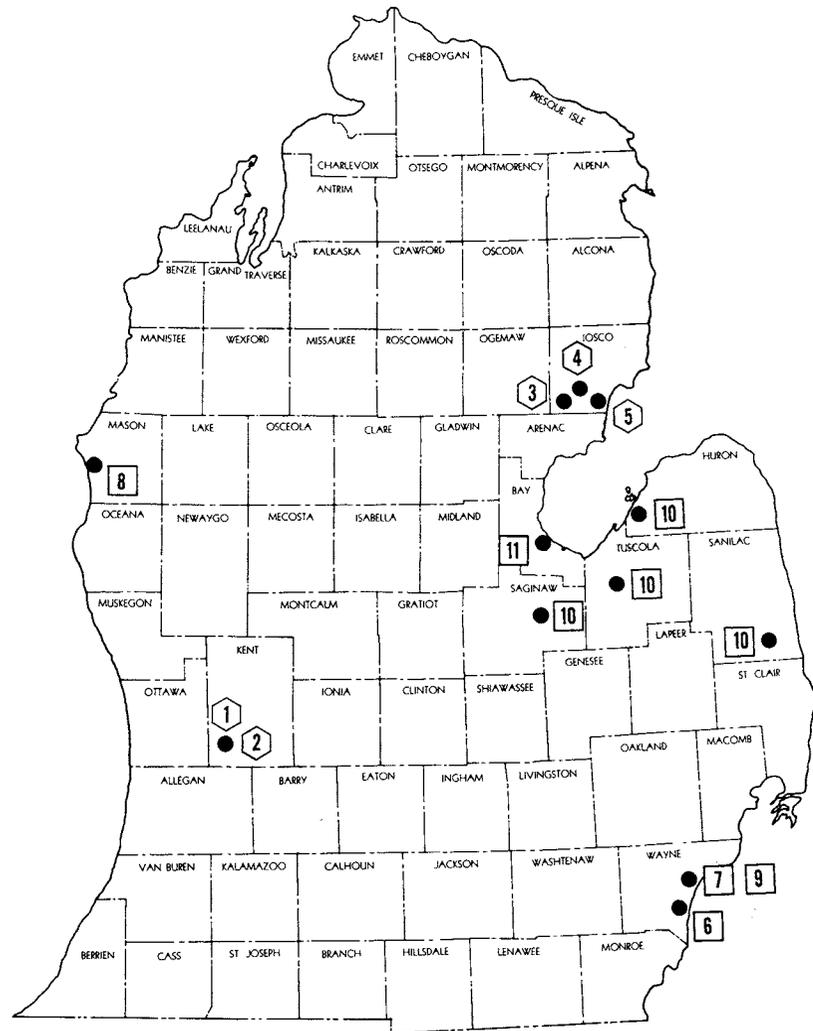
Gypsum was used by the earliest civilizations for artistic and ornamental purposes both as carvings of alabaster and as plaster casts. It was utilized as mortar by the Egyptians in construction of the pyramids about 3000 B.C. and later by the Romans, who also consumed small quantities for plaster.

Benjamin Franklin, during his trip to Europe in 1776, observed the practice of using gypsum for soil conditioning and subsequently promoted its use for that purpose in the United States. Domestic production resulted from discoveries of gypsum in central New York (1792), Virginia (1835), Michigan (1841), Ohio (1850), Iowa (1872), Colorado (1875), California (1875), and many other states at later dates.

Gypsum was discovered in Michigan along Plaster Creek in Kent County in 1827, but was not mined until 1841. The early production was limited to localized use as fertilizer. In the middle 1880's a commercial method to retard setting of gypsum plaster was developed and marked the practical use of plaster in the construction industry. The growth of the cement industry which required crude gypsum to control the "set" of the cement, the increased need for plaster, and later, gypsum wallboard, caused an ever-increasing demand for gypsum.

To date a total of 5 gypsum mines are operating in Michigan - 3 open pit mines and 2 underground mines. As of January 1, 1974, a reported total of 67,456,141 tons of gypsum had been mined in Michigan. During 1973 Michigan set new records in production and value by producing 1,882,257 tons of gypsum valued at \$8,538,453. Michigan is the number one producer of gypsum of the larger gypsum producing states, which includes California, Iowa, and Texas. These states produce over 50% of the gypsum mined in the United States.

# LOCATIONS OF GYPSUM AND LIME OPERATIONS



GYPSUM ○

LIME □

- |                            |                           |
|----------------------------|---------------------------|
| 1. Georgia Pacific Corp.   | 6. BASF Wyandotte Corp.   |
| 2. Grand Rapids Gypsum Co. | 7. Detroit Lime Co.       |
| 3. Michigan Gypsum Co.     | 8. Dow Chemical-Ludington |
| 4. National Gypsum Co.     | 9. Marblehead Lime Co.    |
| 5. U. S. Gypsum Co.        | 10. Michigan Sugar Co.    |
|                            | 11. Monitor Sugar Div.    |

## Lime

Name of Operation	Map No. (page 12)	Plant Location
BASF Wyandotte Corp. 1609 Biddle Avenue Wyandotte, Michigan 48192	(6)	Wyandotte, Limekiln only <u>WAYNE COUNTY</u>
Detroit Lime Co. (subsidiary, Ed. C. Levy Co.) 8800 Dix Avenue Detroit, Michigan 48209	(7)	River Rouge, Limekiln only <u>WAYNE COUNTY</u>
The Dow Chemical Co. Ludington Division 2020 Dow Center Midland, Michigan 48640	(8)	Ludington, Limekiln only <u>MASON COUNTY</u>
Marblehead Lime Co. (General Dynamics Corp.) 25 Marion Street Detroit, Michigan 48233	(9)	River Rouge, Limekiln only <u>WAYNE COUNTY</u>
Michigan Sugar Co. 999 2nd National Bank Bldg. Saginaw, Michigan 48601	(10)	4 plants: (Limekilns only) Sebewaing, <u>HURON COUNTY</u> Carrollton, <u>SAGINAW COUNTY</u> Croswell, <u>SANILAC COUNTY</u> Caro, <u>TUSCOLA COUNTY</u>
Monitor Sugar Division Robert Gage Coal Co. 2600 S. Euclid Avenue Bay City, Michigan 48706	(11)	Bay City, Limekiln only <u>BAY COUNTY</u>

## Marl

Name and Address of Producer	Pit and County
David Allwood, R#1, Burlington, Mich.	Sec. 21, T4S, R7W, <u>CALHOUN COUNTY</u>
Gerald Arnsman, R#1, Hopkins 49328	Belden & Hervig Pits, <u>ALLEGAN COUNTY</u>
Case Bros., R#2, Box 136, Union City 49094	Sec. 28, T4S, R7W, <u>CALHOUN COUNTY</u>
Crosby Marl Co., B. W. Crosby, Three Oaks 49128	Sec. 14, T8S, R20W, <u>BERRIEN COUNTY</u>
William Currier, R#1, Middleville 49333	Duncan L., Sec. 6, T4N, R10W, <u>BARRY CO.</u>
Darrell L. Hamilton, R#3, Nashville 49073	Sec. 25, T2N, R7W, <u>BARRY COUNTY</u>
Hayward Dry Marl, R#2, Vicksburg 49097	Sec. 8, T4S, R10W, <u>KALAMAZOO COUNTY</u>
John Hess, R#1, Hanover 49241	Sec. 14, T5S, R3W, <u>HILLSDALE COUNTY</u>
Kerr Bros. Marl, RR#1, Three Rivers 49093	Kerr pit, T6S, R12W, <u>ST. JOSEPH COUNTY</u>
Emil Pavlak, R#2, Hopkins 49328	Sec. 12, T2N, R12W, <u>ALLEGAN COUNTY</u>
Pipher's Marl Service, R#1, Box 128, Jones, Mich. 49061	Sec. 15, T5S, R14W, <u>CASS COUNTY</u>
Poehlman & Son, R#2, Cassopolis 49031	Sec. 12 & 13, T7S, R16W, <u>CASS COUNTY</u>

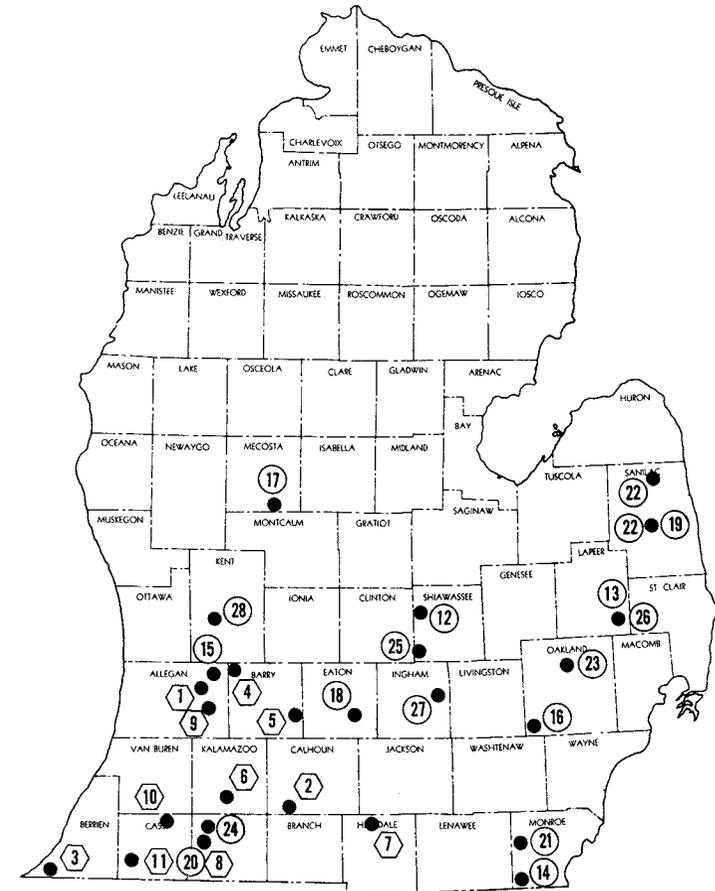
## Natural Salines

Name of Operation	Map No. (page 18)	Products	Plant Location
The Dow Chemical Co. 2020 Dow Center Midland, Michigan 48640	(1)	Bromine, bromine compounds, magnesium compounds, calcium chloride, iodine	South side of Midland T14N, R2E, MIDLAND COUNTY
The Dow Chemical Co. 2020 Dow Center Midland, Michigan 48640	(2)	Bromine, magnesium compounds, calcium chloride	1 Mi. SE of Ludington SW $\frac{1}{4}$ , Sec. 23, T18N, R18W MASON COUNTY
Harbison-Walker Refrac. Co. 2 Gateway Center Pittsburgh, PA. 15222	(3)	Magnesium compounds	1.5 Mi. SE of Ludington NE $\frac{1}{4}$ , SE $\frac{1}{4}$ Sec. 23, T18N, R18W MASON COUNTY
Michigan Chemical Corp. Div. of Northwest Industries Inc. 351 E. Ohio Street Chicago, Illinois 60606	(4)	Bromine, magnesium compounds	W side of St. Louis in Sec. 24, T12N, R3W GRATIOT COUNTY
Morton Chemical Co. Div. of Morton Norwich Prod. Inc. 110 N. Wacker Dr. Chicago, Illinois 60606	(5)	Bromine, magnesium compounds	At Manistee Sec. 12, T21N, R17W MANISTEE COUNTY
Martin Marietta Chemicals Refractories Div. Executive Plaza II Hunt Valley, Maryland 21030	(6)	Magnesium compounds	1 Mi. NW of Stronach SE $\frac{1}{4}$ Sec. 18, T21N, R16W MANISTEE COUNTY
Wilkinson Chemical Co. 8290 Lapeer Rd. Mayville, Michigan 48744	(7)	Calcium-magnesium chloride	S of Mayville Sec. 21, T10N, R10E LAPEER COUNTY

## Peat

Name & Address of Producer	Kind of Peat	Nearest Town	Location
Al-Par Peat 9551 Krouse Ovid, Michigan 48866	reed-sedge bulk & packaged	Ovid	Sec. 18, T9N, R2E SHIawassee COUNTY
Anderson Peat Co. 332 Graham Rd. Imlay City, Michigan 48444	reed-sedge bulk & packaged	Imlay City	Sec. 23, T7N, R12E LAPEER COUNTY
Appleman Farms 717 Pickard Rd. Temperence, Michigan 48182	reed-sedge bulk	Ida	Sec. 2, T8S, R6E MONROE COUNTY

## LOCATIONS OF MARL AND PEAT OPERATIONS



Marl

David Allwood  
Gerald Arnsman  
Case Bros.  
Crosby Marl Co.  
William Currier  
Darrell L. Hamilton  
Hayward Dry Marl  
John Hess  
Kerr Bros. Marl  
Emil Pavlak  
Pipher's Marl Service  
Poehlman & Son

Peat

Al-Par Peat  
Anderson Peat Co.  
Appleman Farms  
Charles E. Douglas  
Fletcher and Richard  
Gummer's Peat Co.  
Hilu Peat Co.  
Huber Peat Co.  
Kerr's Peat Moss  
Norman E. Link  
Michigan Peat, Inc.  
Oxford Peat Co.  
Quality Peat  
Scenic Lakes, Inc.  
Souilliere Peat and Sod Co.  
Wicker's Inc.  
Wonderland Peat

## Salt

### PEAT (CON'T)

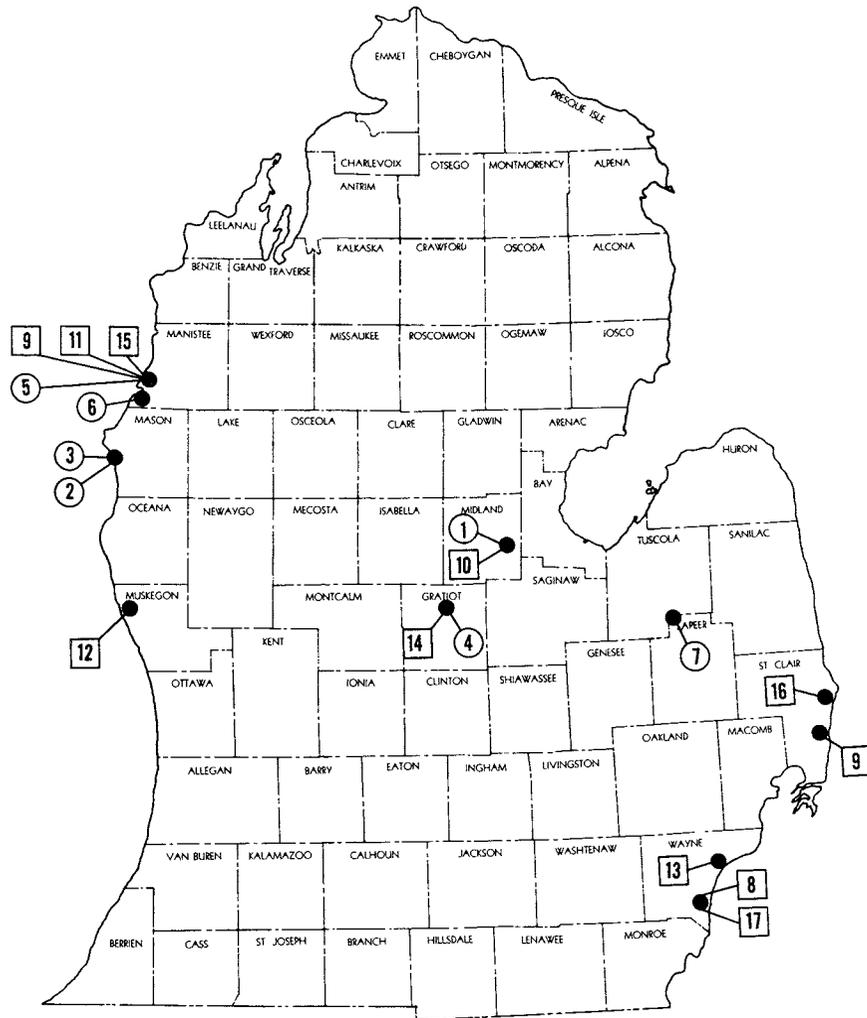
Name & Address of Producer	Kind of Peat	Nearest Town	Location	Company and Address	Map No. (page 18)	Product	Location
Charles E. Douglas Wayland, Michigan 49438	reed-sedge bulk	Wayland	Sec. 26, T4N, R11W <u>ALLEGAN COUNTY</u>	BASF Wyandotte Corp. 1609 Biddle Avenue Wyandotte, Michigan 48192	(8)	Salt brine (chlorine, soda ash)	At Wyandotte <u>WAYNE COUNTY</u>
Fletcher and Richard 54001 Grand River Rd. New Hudson, Michigan 48165	humus, bulk	New Hudson	Sec. 23, T1N, R7E <u>OAKLAND COUNTY</u>	Diamond Crystal Salt Co. 916 S. Riverside St. Clair, Michigan 48079	(9)	Evaporated salt	At St. Clair, Sec. 31, T5N, R17E <u>ST. CLAIR COUNTY</u>
Gummer's Peat Co. R#2 Lakeview, Michigan 48850	moss, reed-sedge bulk & packaged	Lakeview	Sec. 28, T13N, R8W <u>MECOSTA COUNTY</u>	The Dow Chemical Co. 2020 Dow Center Midland, Michigan 48640	(1)	Salt brine (chlorine, natural salines)	At Midland <u>MIDLAND COUNTY</u>
Hilu Peat Company 3040 Clinton Train, R#3 Charlotte, Michigan 48813	humus, bulk	Charlotte	Sec. 21, T2N, R4E <u>EATON COUNTY</u>	Hardy Salt Co. P. O. Drawer 449 St. Louis, MO. 63166	(10)	Evaporated salt	At Manistee <u>MANISTEE COUNTY</u>
Huber Peat Company P. O. Box 312 Sandusky, Michigan 48471	moss, reed-sedge bulk & packaged	Sandusky	Sec. 11, T11N, R14E <u>SANILAC COUNTY</u>	Hooker Chemical Corp. P. O. Box 295 Montague, Michigan 49437	(11)	Salt brine (chlorine, caustic soda, hydrogen)	At Montague NE $\frac{1}{2}$ Sec. 31, T12N, R17W <u>MUSKEGON COUNTY</u>
Kerr's Peat Moss R#1, Box 76 Three Rivers, Michigan	reed-sedge, bulk	Three Rivers	Sec. 13, T6S, R12W <u>ST. JOSEPH COUNTY</u>	International Salt Co., Inc. Clarks Summit, PA. 18411 Detroit Mine: 12841 Saunders St. Detroit, Michigan 48217	(12)	Rock salt	At Detroit SE $\frac{1}{2}$ Sec. 32, T2S, R11E <u>WAYNE COUNTY</u>
Norman E. Link R#1 Petersburg, Michigan 49270	humus-bulk	Petersburg	<u>MONROE COUNTY</u>	Michigan Chemical Corp. 351 E. Ohio Street Chicago, Illinois 60611	(4)	Evaporated salt	At St. Louis <u>GRATIOT COUNTY</u>
Michigan Peat, Inc. 8 Executive Mall Valley Forge, PA. 19481	reed-sedge packaged	Minden City & Sandusky	<u>SANILAC COUNTY</u>	Morton Salt Co. Div. Morton-Norwich Products, Inc. 110 N. Wacker Drive Chicago, Illinois 60606	(5)	Evaporated salt	At Manistee E $\frac{1}{2}$ Sec. 12, T21N, R17W <u>MANISTEE COUNTY</u>
Oxford Peat Company 1430 E. Drahner Road Oxford, Michigan 48051			<u>OAKLAND COUNTY</u>	Morton Salt Co. Div. Morton-Norwich Products, Inc. 110 N. Wacker Drive Chicago, Illinois 60606	(13)	Evaporated salt	Marysville, Michigan SE $\frac{1}{2}$ Sec. 29, T6N, R17E <u>ST. CLAIR COUNTY</u>
Quality Peat R#2 Three Rivers, Michigan 49093	moss, bulk & packaged	Three Rivers	Sec. 24, T5S, R12W <u>ST. JOSEPH COUNTY</u>	Pennwalt Corp. 4655 Biddle Wyandotte, Michigan 48192	(14)	Salt brine (chlorine, caustic soda, hydrogen)	At Wyandotte <u>WAYNE COUNTY</u>
Scenic Lakes, Inc. P. O. Box 926 East Lansing, Michigan 48823	reed-sedge, packaged	Laingsburg	Sec. 4, 10, 16, T5N, R1E <u>SHIAWASSEE COUNTY</u>				
Souilliere Peat & Sod Co. 23650 23 Mile Rd. Mt. Clemens, Michigan 48043	reed-sedge, bulk & packaged	Imlay City	Sec. 25, T7N, R12E <u>LAPEER COUNTY</u>				
Wicker's Inc. 6498 Bishop Road Lansing, Michigan 48910	moss, bulk	Lansing	T3N, R2W <u>INGHAM COUNTY</u>				
Wonderland Peat 3843 Michigan Rd., NE Grand Rapids, Michigan 49506	humus, bulk	Grand Rapids	<u>KENT COUNTY</u>				

Salt is produced in Michigan from artificial and natural brines and from rock salt. The only rock salt mine in Michigan is the International Salt Co. underground mine at Detroit, and the only salt produced from natural brines is at the Michigan Chemical Co. at St. Louis, Mich. All other companies produce salt by the evaporation of artificial brines.

Michigan had been ranked as the leading salt-producing state for many years. From 1905 through 1958, Michigan salt production had only been in second rank four times. Increased salt production in Louisiana, Texas, Ohio, and New York, together with a general decrease in Michigan's annual production, has declined Michigan to the fifth largest salt-producing state in the country. Michigan's record production year for salt was in 1956 with a total of 5,548,178 tons, and since then, the Michigan salt industry has produced an average of 4,385,000 tons per year. This year's production amounted to 4,817,742 tons valued at \$53,732,454.

# LOCATIONS OF CHEMICAL AND SALT PLANTS

# STONE



## LIMESTONE AND DOLOMITE

Name of Operation	Map No. (page 20)	Type of Stone	Quarry Location
Afton Stone Inc. Afton, Michigan 49705	(1)	Limestone, crushed	1 Mi. N of Afton Sec. 25, T35N, R2W <u>CHEBOYGAN COUNTY</u>
Anderson, York, Quarry Manistique, Michigan 49854	(2)	Dolomite, crushed and broken	6 Mi. E of Manistique SE Sec. 36, T42N, R15W <u>SCHOOLCRAFT COUNTY</u>
A-O Company P. O. Box 442 St. Ignace, Michigan 49781	(3)	Dolomite, broken	7½ Mi. N of Epoufette SW Sec. 34, T44N, R7W <u>MACKINAC COUNTY</u>
Arenac Co. Rd. Comm. 116 Bridge Street Omer, Michigan 48749	(4)	Limestone, crushed	3 Mi. NE of Au Gres Sec. 5, T19N, R7E <u>ARENAC COUNTY</u>
Bay Co. Rd. Comm. 2521 S. Huron Rd. Kawkawlin, Michigan 48631	(5)	Limestone, crushed	3 Mi. N of Omer Sec. 34, T20N, R5E <u>ARENAC COUNTY</u>
Bethlehem Mines Corp. 701 East Third St. Bethlehem, PA. 18016	(6)	Dolomite, crushed	W end Drummond Island Secs. 3 & 10, T41N, R5E <u>CHIPPEWA COUNTY</u>
Bichler Gravel & Concrete Co. Box 263 Escanaba, Michigan 49829	(7)	Dolomite, crushed	1½ Mi. N of Wells Sec. 1, T39N, R23W <u>DELTA COUNTY</u>
C & D Stone Co. Au Gres, Michigan	(8)	Limestone, crushed	3 Mi. NE of Au Gres Sec. 5, T19N, R7E <u>ARENAC COUNTY</u>
Caspian Construction Co. Caspian, Michigan 49115	(9)	Limestone, crushed	8½ Mi. SE of Rapid River Sec. 6, T40N, R20W <u>DELTA COUNTY</u>
Cheney Limestone Co. P. O. Box 6 Bellevue, Michigan 49021	(10)	Limestone, crushed and dimensional	W of Bellevue Sec. 29, T1N, R6W <u>EATON COUNTY</u>
Delta Co. Rd. Comm. P. O. Box 298 Escanaba, Michigan 49829	(11)	Dolomite, crushed	8½ Mi. S of Ensign Sec. 11, T39N, R21W <u>DELTA COUNTY</u>
Dundee Cement Co. P. O. Box 317 Dundee, Michigan 48131	(12)	Limestone, crushed	2 Mi. N of Dundee Sec. 6, T6S, R7E <u>MONROE COUNTY</u>
France Stone Co. P. O. Box 1928 Toledo, Ohio 43603	(13)	Dolomite, crushed	At Grape Sec. 13, T6S, R7E <u>MONROE COUNTY</u>
France Stone Co. P. O. Box 1928 Toledo, Ohio 43603	(14)	Dolomite, crushed	At Monroe Sec. 7, T7S, R9E <u>MONROE COUNTY</u>
Glancy, R. E. 1055 S. Bay Drive Tawas City, Michigan 48763	(15)	Limestone, crushed	5 Mi. S of Alabaster Sec's. 13 & 14, T20N, R7E <u>ARENAC COUNTY</u>

Natural Salines ○

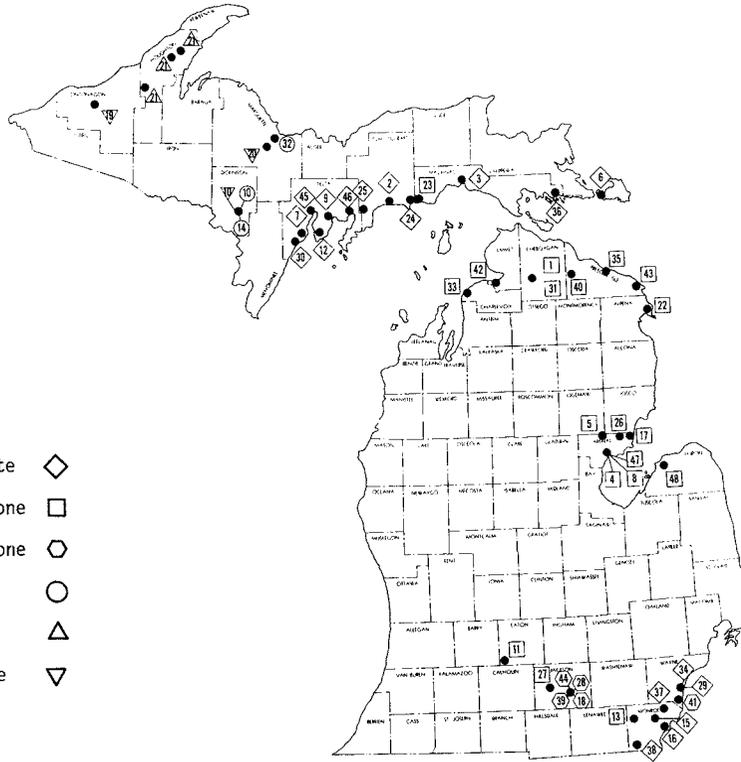
1. Dow Chemical-Midland
2. Dow Chemical-Ludington
3. Harbison-Walker Refractories
4. Mich. Chemical Corp.
5. Morton Chemical Co.-Manistee
6. Martin Marietta Chemical-Refrac. Div.
7. Wilkinson Chemical Co.

Salt □

8. BASF Wyandotte Corp.
9. Diamond Crystal Salt Co.
10. Dow Chemical-Midland
11. Hardy Salt Co.
12. Hooker Chemical Corp.
13. International Salt Co.
14. Michigan Chemical Corp.
15. Morton Salt Co.-Manistee
16. Morton Salt Co.-Marysville
17. Pennwalt Corp.

# LOCATIONS OF LIMESTONE, DOLOMITE, SANDSTONE, AND MISCELLANEOUS STONE OPERATIONS

LIMESTONE AND DOLOMITE (CONT'D.)



**Key**

- Dolomite   ◇
- Limestone   □
- Sandstone   ○
- Marble       ○
- Basalt       △
- Granite      ▽

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. Afton Stone Inc.</li> <li>2. Anderson Quarry</li> <li>3. A-O Company</li> <li>4. Arenac Co. Rd. Comm.</li> <li>5. Bay Co. Rd. Comm.</li> <li>6. Bethlehem Mines Corp.</li> <li>7. Bichler Gravel &amp; Concrete Co.</li> <li>8. C &amp; D Stone Co.</li> <li>9. Caspian Construction Co.-Rapid River</li> <li>10. Felch Operations</li> <li>11. Cheney Limestone Co.</li> <li>12. Delta Co. Rd. Comm.</li> <li>13. Dundee Cement Co.</li> <li>14. Felch Corporation</li> <li>15. France Stone Co.-Grape</li> <li>16. France Stone Co.-Monroe</li> <li>17. Glancy Quarry</li> <li>18. H &amp; H Sandstone Co.</li> <li>19. Hocking Construction Co.</li> <li>20. Hodgins &amp; Sons</li> <li>21. Houghton Co. Rd. Comm.</li> <li>22. Huron Cement Co.</li> </ol> | <ol style="list-style-type: none"> <li>23. Inland Lime &amp; Stone Co.</li> <li>24. Inland Lime &amp; Stone Co.</li> <li>25. Inwood Stone Products Co.</li> <li>26. Iosco Co. Rd. Comm.</li> <li>27. Jeffrey Limestone Co.</li> <li>28. Jude Sandstone Co.</li> <li>29. Kraemer &amp; Sons</li> <li>30. Krygoski Construction Co.</li> <li>31. Limestone Products Co.</li> <li>32. Lindberg and Sons</li> <li>33. Medusa Corp.</li> <li>34. Mich. Foundation Quarry Co.</li> <li>35. Mich. Limestone Operations</li> <li>36. Mich. Limestone Operations</li> <li>37. Michigan Stone Co.-Maybee</li> <li>38. Michigan Stone Co.-Ottawa Lake</li> <li>39. Napoleon Stone Quarry</li> <li>40. Onaway Stone Co.</li> <li>41. Ottawa Silica Co.</li> <li>42. Penn-Dixie Cement Corp.</li> <li>43. Presque Isle Corp.</li> <li>44. Rays Stone Quarry</li> <li>45. Schoolcraft Co. Rd. Comm.</li> <li>46. Thornton Constr. Co.</li> <li>47. Van Deusen Stone Co.</li> <li>48. Wallace Stone Co.</li> </ol> |
|---|---|

Name of Operation	Map No. (page 20)	Type of Stone	Quarry Location
Huron Cement Co. Div. Nat'l. Gypsum Co. 17515 W. Nine Mile Rd. Honeywell Center - 12th Flr. Southfield, Michigan 48075	(16)	Limestone, crushed	At Alpena Sec. 13, T31N, R8E <u>ALPENAC COUNTY</u>
Inland Lime and Stone Co. Div. of Inland Steel Co. Gulliver, Michigan 49840	(17)	Limestone, crushed	N of Port Inland Sec. 6, T42N, R12W <u>MACKINAC COUNTY</u>
Inland Lime and Stone Co. Div. of Inland Steel Co. Gulliver, Michigan 49840	(18)	Dolomite, crushed	W of Port Inland Sec. 2, T41N, R13W <u>SCHOOLCRAFT COUNTY</u>
Inwood Stone Products Co. P. O. Box 24 Cooks, Michigan 49817	(19)	Dolomite, dimensional	3 Mi. NE of Cooks Sec. 8, T41N, R17W <u>SCHOOLCRAFT COUNTY</u>
Iosco Co. Rd. Comm. P. O. Box 31 East Tawas, Michigan 48730	(20)	Limestone, crushed	7 Mi. NE of Au Gres Sec. 24, T20N, R7E <u>ARENAC COUNTY</u>
Jeffrey Limestone Co. Box 126 Parma, Michigan 49269	(21)	Limestone, crushed	1 Mi. NE of Parma Sec. 30, T2S, R2W <u>JACKSON COUNTY</u>
Krygoski Construction Co. P. O. Box 116 Menominee, Michigan 49858	(22)	Dolomite, crushed	4 Mi. W of Escanaba Sec. 33, T39N, R23W <u>DELTA COUNTY</u>
Limestone Products Co. Box 84 Vanderbilt, Michigan 49795	(1)	Limestone, crushed	1 Mi. N of Afton Sec. 25, T35N, R2W <u>CHEBOYGAN COUNTY</u>
Lindberg and Sons Box 308 Ishpeming, Michigan 49849	(23)	Dolomite, crushed	8 Mi. E of Negaunee Sec. 8, T47N, R25W <u>MARQUETTE COUNTY</u>
Medusa Corp. Box 5668 Cleveland, Ohio 44101	(24)	Limestone, crushed	2 Mi. W of Charlevoix Sec. 28, T34N, R8W <u>CHARLEVOIX COUNTY</u>
Mich. Foundation Quarry Co. 110 W. Jefferson Avenue Trenton, Michigan 48183	(25)	Limestone, crushed	At Trenton Sec. 7, T4S, R11E <u>WAYNE COUNTY</u>
Mich. Limestone Operations U. S. Steel Corp. Rogers City, Michigan 49779	(26)	Limestone, crushed	At Rogers City Sec. 23, T35N, R5E <u>PRESQUE ISLE COUNTY</u>
Mich. Limestone Operations U. S. Steel Corp. Rogers City, Michigan 49779	(27)	Dolomite, crushed	4 Mi. E of Cedarville Sec. 10, T42N, R1E <u>MACKINAC COUNTY</u>
Michigan Stone Co. R#2 Ottawa Lake, Michigan 49267	(28)	Dolomite, crushed	½ Mi. N of Maybee Sec. 29, T5S, R8E <u>MONROE COUNTY</u>

## LIMESTONE AND DOLOMITE (CONT'D.)

Name of Operation	Map No. (page 20)	Type of Stone	Quarry Location
Michigan Stone Co. R#2 Ottawa Lake, Michigan 49267	(29)	Dolomite, crushed	E of Ottawa Lake Sec. 25, T8S, R6E <u>MONROE COUNTY</u>
Onaway Stone Co. c/o Cherryland Cut Stone Co. Route 4, Box 529 Traverse City, Michigan 49765	(30)	Limestone, dimensional	1 Mi. N of Onaway Sec. 5, T34N, R2E <u>PRESQUE ISLE COUNTY</u>
Penn-Dixie Cement Corp. P. O. Box 152 Nazareth, Penn. 18064	(31)	Limestone, crushed	3.5 Mi. W of Petoskey Sec. 3, T34N, R6W <u>EMMET COUNTY</u>
Presque Isle Corp. P. O. Box 426 Alpena, Michigan 49704	(32)	Limestone, crushed	7 Mi. N of Lakeport Sec. 2, T33N, R8E <u>PRESQUE ISLE COUNTY</u>
Schoolcraft Co. Rd. Comm. P. O. Box 153 Manistique, Michigan 49854	(33)	Dolomite, crushed	4½ Mi. N of Manistique Sec. 14, T42N, R16W <u>SCHOOLCRAFT COUNTY</u>
Thornton Construction Co. 1028 Ethel Avenue Hancock, Michigan 49930	(34)	Dolomite, crushed	½ Mi. W of Isabella Sec. 2, T40N, R19W <u>DELTA COUNTY</u>
Van Deusen Stone Co. Route #1 Au Gres, Michigan 48703	(35)	Limestone, crushed	3 Mi. NE of Au Gres Sec. 5, T19N, R7E <u>ARENAC COUNTY</u>
Wallace Stone Co. Div. J. P. Burroughs & Son, Inc., P. O. Box 1468 Saginaw, Michigan 48605	(36)	Limestone, crushed and dimensional	3 Mi. W of Pigeon Secs. 5 & 6, T16N, R10E <u>HURON COUNTY</u>

**SANDSTONE**

H & H Sandstone Co. 9343 Vinning Clark Lake, Michigan 49234	(37)	Sandstone, crushed	<u>JACKSON COUNTY</u>
Jude Sandstone Co. 338 Austin Rd. Napoleon, Michigan 49261	(38)	Sandstone, crushed and dimensional	½ Mi. E of Napoleon Sec. 6, T4S, R2E and Sec. 31, T3S, R2E <u>JACKSON COUNTY</u>
Napoleon Sandstone Quarry 303 Natawasaeppe Napoleon, Michigan 49261	(39)	Sandstone, dimensional	½ Mi. E of Napoleon Sec. 6, T4S, R2E <u>JACKSON COUNTY</u>
Ottawa Silica Co. 33620 Streicher Rd. Rockwood, Michigan 48173	(40)	Sandstone, crushed (silica sand)	At Rockwood Sec. 15, T5S, R10E <u>WAYNE COUNTY</u>

**MISCELLANEOUS STONE**

Name of Operation	Map No. (page 20)	Type of Stone	Quarry Location
Caspian Construction Co. Randville, Michigan 49881	(41)	Feldspar, amphibolite, crushed	Near Randville Sec. 26, T42N, R30W; Sec. 30, T42N, R29W <u>DICKINSON COUNTY</u>
Caspian Construction Co. Randville, Michigan 49881	(42)	Marble, crushed	2½ Mi. E of Felch Sec. 26, T42N, R28W <u>DICKINSON COUNTY</u>
Felch Quarry Corp. Box 97 Felch, Michigan 49831	(43)	Marble, crushed	½ Mi. SE of Felch Sec. 33, T42N, R28W <u>DICKINSON COUNTY</u>
Hocking Construction Co. Box 488 South Range, Michigan 49963	(44)	Rhyolite, crushed	7 Mi. SE of White Pine Sec. 21, T50N, R41W <u>ONTONAGON COUNTY</u>
Hodgins & Sons P. O. Box 631 Marquette, Michigan 49855	(45)	Waste rock	Near Palmer <u>MARQUETTE COUNTY</u>
Houghton Co. Rd. Comm. Hancock, Michigan 49930	(46)	Trap rock	Sec. 29, T52N, R36W Sec. 21, T54N, R34W Sec. 11, T54N, R34W <u>HOUGHTON COUNTY</u>

**SAND AND GRAVEL****Industrial Sand**

Company	Type Plant & Use	County
Manley Brothers of Indiana, Incorp. P. O. Box 67 Chesterton, Ind. 46304	Plant: Stationary Uses: Molding, Blast, Engine	SW¼ Sec. 5, & NW¼ Sec. 8, T6S, R19W <u>BERRIEN COUNTY</u>
Construction Agg. Corp. P. O. Box 6830 Ferrysburg, Michigan 49409	Plant: Stationary Uses: Molding	SE¼ NE¼ Sec. 17, T8N, R16W <u>OTTAWA COUNTY</u>
Great Lakes Foundry Sand Co. 1217 Francis Palms Bldg. Detroit, Michigan 48201	Plant: Dredge, Stationary Uses: Molding	SW¼ SW¼ Sec. 27, T12N, R8E <u>TUSCOLA COUNTY</u>
Industrial Sand Div. Martin Marietta Agg. 110 E. Main Street Rockton, Illinois 61072	Plant: Stationary Uses: Glass, Molding Engine, & others	Sec. 18, T6S, R19W <u>BERRIEN COUNTY</u>
McCormick Sand Corp. P. O. Box 506 Muskegon, Michigan 49443	Plant: Portable Uses: Molding, Foundry, Glass, Blast, Engine	SE¼ Sec. 16, T11N, R16W <u>MUSKEGON COUNTY</u>
Nugent Sand Co., Inc. P. O. Box 506 Muskegon, Michigan 49443	Plant: Dredge, Stationary Uses: Molding, Engine, Glass, Abrasive, Blast	NE¼ Sec. 3, T9N, R17W <u>MUSKEGON COUNTY</u>

# LOCATIONS OF INDUSTRIAL SAND OPERATIONS



## SAND OPERATIONS

1. Manley Brothers
2. Construction Aggregate Corp.
3. Great Lakes Foundry Sand Co.
4. Martin Marietta Aggregate
5. McCormick Sand Corp.
6. Nugent Sand Co., Inc.
7. Sand Products-Manistee Oper.
8. Sand Products-Brevort Oper.

9. Sargent Sand Co.-Erie Dredge Oper.
10. Sargent Sand Co.-Ludington Oper.
11. Sargent Sand Co.-Hemlock-Midland Oper.
12. Sargent Sand Co.-Vassar Oper.
13. Sargent Sand Co.-Mesick Oper.
14. Sargent Sand Co.-Yuma Oper.
15. Standard Sand Co.

## SANDSTONE OPERATION

16. Ottawa Silica Co.

## NUMBER AND PRODUCTION OF SAND AND GRAVEL PRODUCERS PER COUNTY

Counties Producing 0-250,000 Tons  
(4,575,000 Tons or 7% of State Total)

Alcona	1	Gladwin	0	Missaukee	1
Alger	1	Gogebic	1	Montmorency	1
Alpena	3	Grand Traverse	4	Newaygo	2
Antrim	1	Iron	2	Ontonagon	1
Baraga	1	Kalkaska	1	Oscoda	1
Benzie	1	Keweenaw	1	Otsego	2
Calhoun	3	Lake	2	Roscommon	2
Charlevoix	3	Leelanau	1	St. Clair	1
Cheboygan	2	Luce	1	St. Joseph	1
Clare	2	Mackinac	1	Schoolcraft	1
Crawford	1	Menominee	5	Van Buren	2
Delta	4	Midland	1	Wexford	2
Emmet	2				

Counties Producing 250,000-500,000  
(8,588,000 Tons or 14% of State Total)

Arenac	2	Gratiot	4	Manistee	3
Barry	4	Hillsdale	4	Mecosta	1
Branch	2	Houghton	2	Monroe	2
Cass	3	Huron	6	Montcalm	4
Chippewa	3	Ionia	2	Oceana	2
Dickinson	4	Jackson	4	Osceola	3
Eaton	4	Lenawee	4	Presque Isle	2
Emmet	3				

Counties Producing 500,000+ Tons  
(49,535,000 Tons or 79% of State Total)

Allegan	4	Kent	12	Ogemaw	4
Bay	1	Lapeer	5	Ottawa	11
Berrien	6	Livingston	6	Saginaw	2
Clinton	13	Macomb	9	Sanilac	5
Genesee	6	Marquette	4	Shiawassee	8
Ingham	5	Mason	1	Tuscola	8
Iosco	1	Muskegon	4	Washtenaw	7
Isabella	3	Oakland	20	Wayne	5
Kalamazoo	5				

Numbers appearing after county name are the number of operators producing sand and gravel within the county.

INDUSTRIAL SAND (CONT'D.)

Company	Type Plant & Use	County
Ottawa Silica Company 33620 Streicher Rd. Rockwood, Michigan 48173	<u>Plant:</u> Stationary <u>Uses:</u> Glass, Molding, Blast, Engine, Abrasive, Enamel, Pottery	SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 15, T5S, R10E WAYNE COUNTY
Sand Products Corp. 2489 First Nat'l. Bldg. Detroit, Michigan 48226	<u>Plant:</u> Dredge, Portable <u>Uses:</u> Foundry	N $\frac{1}{2}$ Sec. 11, T21N, R17W MANISTEE COUNTY
Sargent Sand Co. 2840 Bay Road Saginaw, Michigan 48605	<u>Plant:</u> Stationary <u>Uses:</u> Molding, Grinding, Polishing	BAY COUNTY MASON COUNTY SAGINAW COUNTY TUSCOLA COUNTY
Standard Sand Co. P. O. Box 290 Grand Haven, Michigan 49417	<u>Plant:</u> Stationary <u>Uses:</u> Molding, Engine, Blast, Abrasive	E $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 2, T6N, R13W OTTAWA COUNTY

Construction Sand and Gravel

Name and Address (Michigan)	County
A Adrian Sand & Gravel Co., 7831 Sylvania Ave., Sylvania, Ohio 43560 [S]	LENAWEE
Advance Bldg., Materials Co., 4500 31 Mile Rd., Romeo 48065 [S]	MACOMB
Aggregate Processors, Inc., Box 566, White Pigeon 49099 [D] [BR]	ST. JOSEPH
Ajax Materials, 4875 Baldmountain, Pontiac 48057 [S]	OAKLAND
Albert Sand & Gravel, Inc., 4621 Wilcox Rd., Holt 48841 [S]	LIVINGSTON
Albrecht, William Jr., Sandusky 48471 [P]	SANILAC
Alcona County Road Commission, Lincoln 48742 [P] [BR]	ALCONA
Alger County Road Commission, Drawer 359, Munising 49862 [P]	ALGER
Allegan County Road Commission, R#1, Box 2, Allegan 49010 [P]	ALLEGAN
Alpena County Road Commission, Route 6, Alpena 49707 [P]	ALPENA
American Aggregates Corp., Drawer 160, Greenville, Ohio 45331 [S]	KALAMAZOO, LIVINGSTON (HMS), MACOMB (HMS), OAKLAND (HMS)
Andersen Sand & Gravel Co., 1705 Boxwood St., Saginaw 48601 [D]	TUSCOLA
Anderson Gravel Excavating Co., 233 Thupman, Belding 48809 [S]	MONTCALM
Antrim County Road Commission, Mancelona 49659 [P] [BR]	ANTRIM
Arenac County Road Commission, Omer 48749 [BR]	ARENAC
B B-K, Rt#1, Wallace 49893 [S]	MENOMINEE
Balkema, Henry, 7758 Kilowatt, Kalamazoo 49001	KALAMAZOO
Baraga County Road Commission, P. O. Box 227, L'Anse 49946 [P]	BARAGA
Barr Sand and Gravel, Inc., 990 Barnes Rd., Mason 48854 [P] [BR]	INGHAM
Barry County Road Commission, P. O. Box 158, Hastings 49058 [BR]	BARRY
Bartlett, Norman, R#3, East Jordan 49727 [BR]	CHARLEVOIX
Beagle, Richard, Sand & Gravel, 1855 Hollingsworth, Walled Lake 48088 [P]	OAKLAND
Beckman Bros. Inc., 210 Michigan Ave., Shelby 49455 [P, S]	OCEANA
Beeman Trucking & Bulldozing Co., R#1, Grawn 49637	GRAND TRAVERSE
Bennett Excavating & Gravel Co. Inc., 10835 Hamburg Rd., Hamburg 48139 [P]	LIVINGSTON, WASHTENAW

CONSTRUCTION SAND & GRAVEL (CONT'D.)

Name and Address (Michigan)	County
Bentley Sand and Gravel, 9220 Bennet Lake Rd., Fenton 48430	LIVINGSTON
Benzie County Road Commission, Honor 49640 [P]	BENZIE
Berenthal Sand & Gravel Co. Inc., 9523 Saginaw Rd., R#2, Reese 48757 [P]	TUSCOLA
Bichler Gravel and Concrete Co., Box 263, Escanaba 49829 [S]	DELTA
Boichot Concrete Corp., P. O. Box 5247, Lansing 48905 [S] [BR]	CLINTON (HMS)
Brade Ready Mix Concrete Co., 175 Main St, Kinde 48455 [S] [BR]	HURON
Brady Sand & Gravel, 2980 Russell Rd., Tecumseh 49286 [P]	LENAWEE
Branch Co. Rd. Commission, 23 E. Garfield, Coldwater 49036	BRANCH
Brewers City Coal Dock, 24 Pine Ave., Holland 49423 [P]	OTTAWA
Briggs Ready-Mix & Gravel, 311 State St., Charlotte 48813 [D, S]	EATON (HMS)
Brink, William, 1535 Willis Rd., Saline 48176 [BR]	WASHTENAW
Brow, Gene Construction Co., Box 5, Seney 49883 [P]	LUCE
Brown, Gil, Constructors, Inc., R#2, Alpena 49707 [P]	OGEMAW
Budzen Cement Products, John, Route 1, Paw Paw 49079 [S]	VAN BUREN
Builders Redi-Mix, Inc., 6133 Aurelius Rd., Holt	INGHAM
Bunting Sand and Gravel Products, Inc., 3247 Cook Rd., West Branch 48661	OGEMAW
Burkett, J. V. Construction Co. Inc., 3860 U. S. 31, St. Joseph 49085 [P]	BERRIEN, JACKSON, LENAWEE OTTAWA, VAN BUREN
G Calhoun County Road Commission, County Bldg., Marshall 49068	CALHOUN
Carter, George S. Co. Inc., 5800 Van Dyke Rd., Almont 48003	MACOMB
Caspian Constr. Co., 100 W. Caspian, Caspian 49115 [P]	DICKINSON, IRON
Cass County Road Commission, R#1, Box 175, Cassopolis 49031 [P] [BR]	CASS
Central Michigan Sand & Gravel, 416 E. Huron St., Ann Arbor 48108 [S]	CLINTON, SHIAWASSEE
Champion, Inc., 105 E. "A" St., Iron Mountain 49801 [S] [BR]	DICKINSON, MARQUETTE
Charlevoix County Road Commission, Box 39, Boyne City 49712 [P]	CHARLEVOIX
Cheboygen Cement Products, 702 LaFayette Ave., Cheboygan 49721	CHEBOYGAN
Clare County Road Commission, Harrison 48625 [P]	CLARE
Clinton County Road Commission, 709 W. State Rd., St. Johns 48879 [P]	CLINTON
Coit Ave. Gravel Co., Inc., 4772 Coit Ave. NE, Grand Rapids 49505 [D, S]	KENT
Cole Brothers Contractors Inc., 4742 Crandell Rd., Battle Creek 49017 [P] [S]	BARRY, CALHOUN, HILLSDALE, IONIA, KALAMAZOO, ST. JOSEPH
Cole Gravel Co., R#1, Patterson Rd., Wayland 49348 [S] [BR]	BARRY
Combs, Emil, Gravel & Ready-Mix, R#1, Tekonsha 49092 [S] [BR]	CALHOUN
Compton Sand and Gravel, 4300-31 Mile Road, Romeo 48065 [P]	OAKLAND, MACOMB
Concrete Service Corp., W. Front St., Traverse City 48964 [S]	GRAND TRAVERSE
Construction Aggregates Corp., P. O. Box 6830 Ferrysburg 49409 [S]	OTTAWA
Consumers Sand & Gravel Co., P. O. Box 231, Kalamazoo 49005 [D, P, S]	KALAMAZOO
Contractors Gravel Co., Box 83, Sparta 49345 [D]	KENT
Cook Block Co., 138 E. Harrington Rd., Crosswell 48422 [BR]	SANILAC
Copping, C. J. Trucking Co., Box 8925 Rt#4, Alpena 49707	ALPENA
Corey & Hartwig, Inc., 4353 Pratt Rd., Hadley 48440 [P, S]	LAPEER
Cousineau Gravel, Inc., P. O. Box 222, Big Rapids 49307 [P]	KENT, MASON, OSCEOLA
Crandell Trucking Co., 800 Island Hwy., Charlotte 48813 3 Pits [P] [BR]	EATON, IONIA
Crawford County Road Commission, 320 State Rd., Grayling 49738 [P, S]	CRAWFORD

CONSTRUCTION SAND & GRAVEL (CONT'D.)

Name and Address (Michigan)	County
D. & J. Gravel Co. Inc., R#2, 4950 Mason Rd., Howell 48843	LIVINGSTON
Dean, Henry & Son, P. O. Box 184, Onaway 49765 [P] [BR]	CHEBOYGAN
DeBoer Materials, R#1, Box 81, Three Rivers 49093	ST. JOSEPH
Delta County Road Commission, P. O. Box 298, Escanaba 49829	DELTA
Department of Military Affairs, Camp Grayling, Grayling 49738	CRAWFORD
DeVries, E. & Sons, 959 Bristol Ave., NW, Grand Rapids 49504	KENT
DeWent Gravel Co., 5725 Marlin Ave., Hudsonville 49426 [S] [BR]	OTTAWA
Dickinson County Road Commission, P. O. Box 509, Iron Mountain 49801 [P]	DICKINSON
Dowling, Bernard Trucking, Rt. 4, 1564 Long Rapid Road, Alpena 49707	ALPENA
Drenth Bros., Inc., Ellsworth 49729 [P]	ANTRIM
Dubey, Earl and Sons, Inc., R#3, Alpena 49707 [P]	ALPENA
Dunbar, Leo, P. O. Box 246, Cadillac 49601 [S]	WEXFORD
Dyer Company, Box 98, McBride 48852 [P]	MONTCALM
E Eastman Gravel Pit, R#1, 422 Stover Rd., Standish 48658 [S]	ARENAC
Eichenberg, Howard, Contractors, R#1, White Cloud 49349 [P]	NEWAYGO, OCEANA
Emmet County Road Commission, Box 0, Petoskey 49770 [P]	EMMET
F Faulkender Sand & Gravel, Inc., Box 68, 1601 E. Hamlin Road Rochester 48063 [S]	MACOMB
Fayas & Sons, Inc., P. O. Box 2187, Kingsford 49801 [S]	DICKINSON
Fedewa, Leo, Route 4, St. Johns 48879	CLINTON
Fenton Gravel Co., Inc., 11301 Fenton Hill Rd., Fenton 48430	LIVINGSTON
Ferguson Excavating Co., 5360 N. State Rd., Davison 48423 [BR]	GENESEE
Fiser Supply Co., 1617 E. Jolly Rd., Lansing 48910 [D] [P] [BR]	INGHAM
Fisher Sand & Gravel Co., 921 S. Jefferson Ave., Midland 48640 [P]	CLARE ISABELLA
Fitzgerald, Fred M., Gravel Co., 3713 E. Six Mile Creek, Owosso 48867 [BR]	SHIAWASSEE
Fitzgerald & Powell, Inc., P. O. Box 160, Rose City 48654	OGEMAW
Fleming Gravel Co., Inc., Box 232, R#3, Allegan 49010 [P]	ALLEGAN, KALAMAZOO, KENT
Foster, Don, Inc., 67550 Pashaik Rd., Richmond 48062	MACOMB
Fox Valley Construction Co., Box 645, 103 W. College Ave., Appleton, Wisconsin 54911 [P]	ALGER, DELTA, DICKINSON, MENOMINEE, ONTONAGON
Fuoss Gravel Co., R#1, Durand 48429 [BR] [S] [D]	SHIAWASSEE
G Gillisssee Construction Co., 2500 28th Street SW, Box 278, Grandville 49418	KENT
Glancy, R. E., Inc., 1055 S. Bay Dr., Tawas City 48763 [P]	GLADWIN, IOS. OGEMAW
Globe Industries Inc., Mill St., Ironwood 49938 [P]	GOGEBIC
Gogebic County Road Commission, Courthouse, Bessemer 49911 [P]	GOGEBIC
Grand Rapids Gravel Co., 2700 28th Street SW, Grand Rapids 49509 [S]	KENT
Grand River Gravel Co., Box 494, Owosso 48867 [S]	SHIAWASSEE
Grand Valley Gravel Co., 10450 Linden Dr., R#5, Grand Rapids 49540 [S]	OTTAWA
Gratiot County Road Commission, Ithaca 48847 [P] [BR]	GRATIOT
Great Lakes Gravel Co., 490 Spaulding SE, Grand Rapids 49506	KENT, MACOMB, OAKLAND
Great Lakes Gravel Co., Inc., 2900 Auburn Rd., Utica 48087 [D]	MACOMB, OAKLAND

CONSTRUCTION SAND & GRAVEL (CONT'D.)

Name and Address (Michigan)	County
Greenthumb Greenhouse, R#2, Box 44C, Ironwood 49938	GOGEBIC
Gronlund Gravel Co., Box 28, R#2, Bear Lake 49614 [P]	MANISTEE
H Halliday Sand & Gravel, Inc., R#79, Box 230, Houghton Lake 48629 [P]	ROSCOMMON
Hamilton Block & Redi-Mix, R#3, Hamilton 49419 [P]	ALLEGAN
Hamlin Excavating, P. O. Box 101, Grayling 49738 [BR]	CRAWFORD
Harmon Sand & Gravel Co., 3365 Harmon Rd., St. Johns 48879 [S]	CLINTON
Havelka Construction Co., R#1, Wallace 49893 [P]	MENOMINEE
Hayes Washed Sand & Gravel Co., Inc., 15205 Middlebelt Rd., Livonia 48154	WAYNE
Hersey Sand & Gravel, J. P. Burroughs & Son, Aggregate Div., P. O. Box 1468, Saginaw 48605	OSCEOLA (HMS)
Hilderbrand H., Sand & Gravel, 4264 River Rd., Oscoda 48750	ALCONA
Hillsdale County Road Commission, Courthouse, Hillsdale 49242 [BR]	HILLSDALE
Hocking, George, Construction Co., Box 488, South Range 49963 [P]	HOUGHTON, ONTONAGON
Hodgins, Ken & Sons, P. O. Box 631, Marquette 49855 [P]	MARQUETTE
Hoffman Bros. Excavating, 1355 Dickman Rd., Battle Creek (Sand only) [BR]	CALHOUN
Holloway Sand & Gravel Co., Inc., (Holloway Construction Co.) 10930 6 Mile Rd., Northville	GENESEE, WASHTENAW
Holly Sand & Gravel Plant, J. P. Burroughs & Son, Inc., Aggregate Div., P. O. Box 1468, Saginaw 48605 [S] [P] [BR]	OAKLAND (HMS)
Holmberg, Gunnar F., R#1, Mounted Rd., Gladstone 49837 [S]	DELTA
Hoogerhyde Sand & Gravel Co., R#1, Box 92, Gaylord 49735 [P]	OTSEGO
Hoover Brothers, 1139 Tripp Rd., Waldron 49288 [P] [BR]	HILLSDALE
Houghton County Road Commission, Royce Rd., Hancock 49930 [P]	HOUGHTON
Hubscher & Son, Inc., P. O. Box 411, Mt. Pleasant 48858 [D] [P] [BR]	CLARE, GRATIOT, ISABELLA
Huizenga Gravel Co., 10015 Gordon, Zeeland 49464 [P, S]	OTTAWA
Huron County Road Commission, P. O. Box 270, Bad Axe 48413 [P]	HURON
Hutala, Roland Jr. Sand & Gravel Co., L'Anse 49946 [S, BR]	BARAGA
Hutfilz, Walter, 2850 Bay Rd., Saginaw 48601	SAGINAW
I Indiana Hwys. Materials, Inc., 2116 W. Wilden Ave., Goshen Indiana 46526 [P]	CASS
Ingham County Road Commission, 301 Bush St., Mason 48854 [P, S]	INGHAM
Ionia County Road Commission, P. O. Box 76, Ionia 48846 [P]	IONIA
Iosco County Road Commission, 810 W. Westover, East Tawas 48730 [P]	IOSCO
Iron County Road Commission, Crystal Falls 49920 [DL, P, S]	IRON
Ironwood, City of, Ironwood 49938	GOGEBIC
Ironwood Concrete Products, Ironwood 49938 [BR]	GOGEBIC
Isabella County Road Commission, R#7, Mt. Pleasant 48858 [D, P, S] [BR]	ISABELLA
Isabella Sand & Gravel Co., E. Wing Rd., Mt. Pleasant 48858	ISABELLA
Ishpeming, City of, Ishpeming 49849 [BR]	MARQUETTE
J James, Jr., Chester, P. O. Box 45, Hillman 49746	MONTMORENCY
John R. Sand & Gravel Co., 1717 East Dryden Rd., Metamore 48455 [S]	LAPEER
Johnson, Norman Co., R#1, Box 111, Daggett 49821	MENOMINEE

CONSTRUCTION SAND & GRAVEL (CONT'D.)

CONSTRUCTION SAND & GRAVEL (CONT'D.)

Name and Address (Michigan)	County
<b>K</b> K-V Gravel Co., 403 Cherokee Dr., Fremont 49412 [S] Kaatz, Fred, 33555 - 31 Mile Rd., Richmond 48062 Kalkaska County Road Commission, Box 2127, Kalkaska 49646 [P] [BR]	NEWAYGO MACOMB KALKASKA CLINTON
Karber Gravel Co., 917 Church St., St. Johns 48879 Kent County Road Commission, 1500 Scribner NW, Grand Rapids 49504 [S, P, BR]	KENT KEWEENAW BERRIEN VAN BUREN
Keweenaw County Road Commission, Mohawk 49950 [P] [BR] Kiell Excavating Co., 2046 M-140, Niles 49120 [BR] Klett Construction Co., (Gravel Hill), R#2, Hartford 49057 [P] Klumpp Bros. Gravel Co., 3342 Page Ave., Jackson 49203 [P, S] Koboski Coal Co., Inc., 114 Washington St., Petoskey 49770 [S] Koenig Fuel & Supply Co., 1955 Lakeville Rd., Oxford 48051 [S] [BR]	JACKSON, LENAWEE EMMET OAKLAND (HMS) WASHTENAW GENESEE
Kruse Gravel Pit, 1090 W. Clark Rd., Ypsilanti 48197 [S] [BR] Kurtz Gravel Co., G-5300 N. Dort Hwy., Flint 48505 [S] [BR]	
<b>L</b> Lake City Redi-Mix, Route 1, Falmouth 49632 [S] Lake County Road Commission, Baldwin 49304 [P] Lamar Gravel Co., Inc., R#1, Grawn 49637 [P] Lapeer County Road Commission, 820 Davis Lake Road, Lapeer 48446 [P] [BR]	MISSAUKEE LAKE GRAND TRAVERSE LAPEER LEELANAU SHIAWASSEE WASHTENAW CHARLEVOIX MARQUETTE, ONTONAGON
Leelanau County Road Commission, Suttons Bay 49682 [P] Lennon Sand & Gravel Inc., 114 Duane St., Durand [S] [BR] Liberty Sand Company, Box 1046, Ann Arbor 48105 [S] Lilak & Moore, East Jordan 49727 [P, S] Lindberg A. & Sons, Inc., Box 308, Ishpeming 49849 [P, S] Livingston County Road Commission, 918 North St., Howell 48843 [S, BR]	LIVINGSTON GRAND TRAVERSE LUCE INGHAM
Long Lake Gravel Service, 736 Lakewood Rd., Traverse City 49684 Luce County Road Commission, P. O. Box 401, Newberry 49868 [P] Luoma Sand & Gravel, 1381 Craig St., Lansing 48906 [BR] Lyon Sand & Gravel Co., (Div. E. C. Levy Co.) 9300 Dix, Dearborn 48120 [S]	OAKLAND (HMS)
<b>M</b> Mabry & Melton Sand & Gravel Co., 2600 Forrester St., Pontiac 48057 [P] [BR] Macomb Sand & Gravel Co., 3295 Auburn Rd, Utica 48087 [D] Mangene, Mike, Inc., Cedarville 49719 Manistee County Road Commission, 425 Parkdale Ave., Manistee 49660 [BR]	OAKLAND MACOMB MACKINAC MANISTEE MARQUETTE MARQUETTE
Marquette, City of, Marquette 49855 [S] Marquette County Road Commission, Box 10, Ishpeming 49849 [P] Marsack Sand & Gravel Inc., 20900 - 14 Mile Rd., Roseville 48066 [S] Marvic, Steve Sand & Gravel, 1514 N. 16th, Escanaba 49829 [P] [BR]	MACOMB DELTA OTSEGO
Mason Excavating Inc., R#4, Box 289, Gaylord 49735 [S, D, P, BR] Mathews, H. C., Gravel Co., 8082 N. Gaele Rd., Otisville 48063 [P] [BR]	GENESEE ISABELLA
McGuirk Jim & Sons, 616 S. Adams St., Mt. Pleasant 48858 Mecosta County Road Commission, 120 N. DeKraft Ave., Big Rapids 49307 [P] Menominee County Road Commission, 3222 10th St., Menominee 49858 [P] Michigan Aggregates Corp., 213 E. St. Joseph, Lansing 48933 [S, D]	MECOSTA MENOMINEE CALHOUN, INGHAM, HILLSDALE

Name and Address (Michigan)	County
Michigan, State of, Dept. Natural Resources, Lansing 48926	ALCONA, ALGER, ALPENA, BARAGA, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CRAWFORD, DICKINSON, GLADWIN, GOGEBIC, KALKASKA, LUCE, MACKINAC, MANISTEE, MARQUETTE, MECOSTA, MENOMINEE, MISSAUKEE, OGEMAW, ONTONAGON, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SCHOOLCRAFT, WEXFORD
Mickelson Corp., 435 Granger Rd., Oxford 48051 [D, P, S, BR] Midland County Road Commission, Midland 48640 [P] Mid-Michigan Materials, Inc., 406 Park Ave., Yale 48097 [S] Miller, George & Sons, 330 Hollywood Rd., St. Joseph 49085 [P]	OAKLAND (HMS) MIDLAND SANILAC BERRIEN KENT, MUSKEGON, OCEANA, OTTAWA
Miller, Paul C. Co., 10300 Sparta Ave., Sparta 49345 [P] Miller Prod. & Supply Co., P. O. Box 548, North U. S. - 2, Iron Mountain 49801 [P] Miller Sand & Gravel, R#2, 1466-120 Ave. West, Hopkins 49328 [S, BR]	DICKINSON ALLEGAN CRAWFORD TUSCOLA
Millikin, Jack, Inc., 398 Millikin Rd., Box 12A, Grayling 49738 [P] Millington Gravel Co., Box 1, Millington 48746 Missaukee County Road Commission, P. O. Box A, Lake City 49651 [P] Molesworth Contracting Co., 321 Park Ave., P. O. Box 117, Yale 48097 [P]	MISSAUKEE GENESEE, LAPEER, MACOMB, SANILAC, ST. CLAIR
Montero Excavation Inc., I-75 Business Supr., Sault Ste. Marie 49738 Montcalm County Road Commission, Stanton 48888 Montmorency County Road Commission, Atlanta 49709 Moore Bros. Sand & Gravel, 33701 Ruff Road, Romulus 48174 [S] Morgan Sand & Gravel Co., 46218 Custer Road, Utica 48087 [D, S]	CHIPPEWA MONTCALM MONTMORENCY WAYNE LIVINGSTON, MACOMB
Morgan, Al, Sand Co., 26291 Pennsylvania Rd., Romulus 48174 [BR] Murawski, Edward, Fillion 48432 [BR] Muskegon Gravel & Redi-Mix, Inc., R. R. #1, Box 183, Ravenna 49451 [S] Mustang Contractors, Inc., 28771 Mineral Springs Rd., New Boston 48164 [S]	MONROE HURON OTTAWA MONROE
<b>N</b> NAPCO Aggregate Co., P. O. Box 265, Romeo 48065 [P] Nashville Gravel Co., R#3, Box 117B, Nashville 49073 [S] Natural Aggregates Corp., 65545 Mound Rd., Romeo 48065 [D, S] Negaunee, City of, Negaunee 49866 [S] Neuman Sand & Gravel, G-5281 Deland, Flushing 48433 [S] Newaygo County Road Commission, White Cloud 49349 [P] New Hudson Sand & Gravel, Inc., (Div. of Texas Industries) 4200 S. Milford Rd., New Hudson 48165 [P, S, BR] Nieb Concrete Prod. Co., (Niles Sand & Gravel Div.), 2779 Hoyt Drive, Niles 49120 [S] Niemi & Co., Inc., 2492 N. Harrison Ave., Harrison 48625 [P] Northeast Gravel Co., 4300 Cannonsburg Rd., Belmont 49306 [S, BR] Northern Concrete Prod. Co., P. O. Box 525, Petoskey 49770 [S]	LAPEER BARRY (HMS) LIVINGSTON, MACOMB MARQUETTE GENESEE NEWAYGO OAKLAND CASS CLARE KENT EMMET

## CONSTRUCTION SAND &amp; GRAVEL (CONT'D.)

Name and Address (Michigan)	County
O Oceana County Road Commission, P. O. Box 112, Hart 49420 [P, BR]	OCEANA
Ogemaw County Road Commission, 223 Thomas St., West Branch 48661 [P]	OGEMAW
Ontonagon County Road Commission, 415 Spar St., Ontonagon 49953 [P]	ONTONAGON, OSCEOLA
Oscoda County Road Commission, Mio 48647 [P]	OSCODA
Otisville Stone Co., 300 Center St., Otisville 48463 [S, BR]	GENESEE
Otsego County Road Commission, 720 S. Otsego Ave., Gaylord 49735 [BR]	OTSEGO
Ottawa County Road Commission, Grand Haven 49417	OTTAWA
Oxford Mining Co., 9820 Andersonville Rd., Davisburg 48019 [S]	OAKLAND
P P. & B. Gravel Co., R#3, Ithaca 48847 [P, D] [BR]	GRATIOT
Palmer Sand & Gravel, 2531 E. South St., Jackson 49201 [S]	JACKSON
Paquin & Sons, Inc., R#1, Gladstone 49837	DELTA
Paris Gravel Co., R#1, Big Rapids 49307 [S, P]	MECOSTA
Peninsula Asphalt Corp., Box 726, Traverse City 49684 [S]	LEELANAU
Peterhans, H. O., Sand & Gravel, 530 Pearl St., Caro 48723 [S]	TUSCOLA
Peters Construction Co., 3325 E. Kilgore Rd., Kalamazoo 49001 [P]	KALAMAZOO
Petersen Gravel & Excav., 350 Norwood, Rockford 49341 [S, BR]	KENT
Pickitt & Schreur, Inc., Box 257, Allegan 49010 [P]	ALLEGAN (HMS), ISABELLA, JACKSON, KENT, OSCEOLA
Pitchford Sand & Gravel 1330 N. Onondaga Rd., Holt 48842	INGHAM
Polhamus Sand & Gravel, Ovid 48866	SHIAWASSEE
Portable Aggregate Producers, Inc., 1401 Souter Blvd., Troy 48084 [P, BR]	OAKLAND
Powell Sand & Gravel, 2284 Main St., Fairgrove 48733 [BR]	TUSCOLA
Presque Isle County Road Commission, Rogers City 49779	PRESQUE ISLE
Pryor Bros., R#2, P. O. Box 89, Grand Ledge 48837 [P]	CLINTON, EATON
Port Huron, City of, Port Huron 48060 [BR] [S]	ST. CLAIR
Q Quality Aggregate Co., Inc., 646 Beecher Rd., Osseo 49266 [S]	HILLSDALE
R Raymond Excavating, Inc., 800 Gratiot Ave., Marysville, 48040	ST. CLAIR
Richardson Asphalt Corp., 801 Lewis St., P. O. Box 1134, Jackson 49201	BARRY, JACKSON
Rieth-Riley Const. Co., Inc., P. O. Box 566, Sturgis 49091 [P]	EATON, KENT, ST. JOSEPH, VARIOUS
Riverside Sand & Gravel Co., 1050 Maynard Ave., SW., Grand Rapids 49504 [S]	KENT
Riverview Gravel Co., 805 Taylor St., Jenison 49428 [P, S] [BR]	OTTAWA
Robinson Gravel Co., 12065 N. Cedar Dr., Grand Haven 49417 [S, BR]	OTTAWA
Rock Creek Prod., 6991 Chelsea Manchester Rd., Manchester 48158 [P, BR]	WASHTENAW
Rocks, Redi-Mix Concrete Co., 2401 Chicago Dr., Grand Rapids 49509 [S]	KENT
Roscommon County Road Commission, P. O. Box 117, Roscommon 48653 [BR]	ROSCOMMON
Roslund Gravel Co., 6902 Jerome Rd., Alma 48801 [D, S]	GRATIOT

## CONSTRUCTION SAND &amp; GRAVEL (CONT'D.)

Name and Address (Michigan)	County
S St. Clair County Road Commission, 3415 28th St., Port Huron 48060 [S]	LAPEER, ST. CLAIR
St. Joseph County Road Commission, Rt#1, Centerville 49032 [P] [BR]	ST. JOSEPH
Saginaw Aggregates Inc., 2324 Willard St., Saginaw 48602	TUSCOLA
Saginaw County Road Commission, 3020 Sheridan, Saginaw 48601 [BR]	SAGINAW
Salem Sand & Gravel (J. P. Burroughs & Son, Aggregates Div.) P. O. Box 1468, Saginaw 48605 [BR]	OAKLAND
Sanderson, C. G. Equipment Co., 3024 Lakeshore Dr., Sault Ste. Marie 49783 [BR]	CHIPPEWA
Sanilac County Road Commission, Sandusky 48471 [BR]	SANILAC
Scheffler Bros., 6350 Lapeer Rd., Goodells 48027	ST. CLAIR
Schlegal, Carl, Inc., 16527 Wood, Lansing 48906 [BR]	CLINTON, INGHAM
Schley, Bill, 210 Mary St., Union City 49094	BRANCH
Schoolcraft County Road Commission, Box 152, Manistique 49854 [P] [BR]	SCHOOLCRAFT
Schworm Inc., Box 162, Traverse City 49684 [P]	GRAND TRAVERSE, KALKASKA, LEELANAU
Shiawassee County Road Commission, Corunna 48817 [S, P, BR]	SHIAWASSEE
Sievert Bros. Inc., 200 E. River St., Manistee 49660 [P, BR]	MANISTEE
Smith, Bill, Sand & Gravel, P. O. Box 23, Otsego 49078 [P, S, BR]	ALLEGAN
Smith, D. L., Sand & Gravel, Rte. #3, Box 280, East Jordan 49727 [S, BR]	CHARLEVOIX
Snelenberger, J., Gravel, 1545 W. Fry Road, Burt 48417 [P, D, BR]	GENESEE
Spartan Aggregates, Inc., P. O. Box 25, Holt 48842 [P]	CLINTON, GENESEE
Stamm Bros. Gravel Co., R#1, Adrian 49221 [P]	LENAWEE
Standard Gravel Co., (Whittaker Gooding) 5800 Cherry Hill Rd. Ypsilanti 48197 [P]	LENAWEE
Standard Ready-Mix, Inc., 1384 Lake Lansing Rd., Lansing 48912 [D]	CLINTON
Stanley Gravel Co., Box 786, Houghton Lake 48629 [P]	CRAWFORD, ROSCOMMON
Steel Brothers Excavating, 458 W. Sunset Dr., Roscommon 48653 [P]	ROSCOMMON
Stevick Gravel Co., 1100 S. Jackson Rd., Cement City 49233 [P]	JACKSON
Stidham Gravel Co., 227 S. Michigan Ave., Hastings 49058 [S, BR]	BARRY
Stony Lake Sand & Gravel, R#1, Augusta 49012 [S]	KALAMAZOO
Straits Aggregate & Equip. Corp., 120 Oak St., Tawas 48763 [S]	PRESQUE ISLE
Superior Sand & Gravel, Inc., 1028 Ethel Ave, Hancock 49930 [P] [BR]	HOUGHTON
Sutherland, Warran, Box 253, Delton 49046 [BR]	BARRY
T Tanton Redi-Mix, 4519 Mills Rd., Deckerville 48427	HURON
Tecumseh Gravel Co., P. O. Box 247, Tecumseh 49286 [S]	LENAWEE
Tharp & Kosiba, 445 Brown Rd., Pontiac 48053 [P]	OAKLAND
Thompson Construction Co., 234 W. Garfield, Coldwater 49036 [BR]	BRANCH
Thompson-McCully Co., 5905 Belleville Rd., Belleville 48111 [P]	OAKLAND, WASHTENAW
Thomson Sand & Gravel Inc., 48399 W. 7 Mile Rd., Northville 48167 [P, S] [BR]	WAYNE
Three S Gravel Co., 2252 White St., Niles 49120	CASS
Tod Gravel Co., 6498 W. M-21, Rt. #1, Ovid 48866	SHIAWASSEE
Towns Construction, P. O. Box 608, Ludington 49431	MASON, OCEANA

CONSTRUCTION SAND & GRAVEL (CONT'D.)

Name and Address (Michigan)	County
Trautman Sand & Gravel, 800 W. Fourth St., Buchanan 49107	BERRIEN
Traverse City Sand & Gravel Co., 1142 S. Airport, Traverse City 49684 [BR]	LEELANAU
Tri-City Aggregates Inc., 14300 Shields Road, Holly 48442	OAKLAND
Tri-County Sand & Stone, 3664 Calhoun Rd., P. O. Box 328, Beaverton 48612	CLARE
Tuckey Block Co., 6038 E. Cass City Rd., Cass City 48726	TUSCOLA
Tuscola County Road Commission, 120 Millwood St., Caro 48723	TUSCOLA
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<b>U</b> Underwood Sand & Gravel Co., 2255 Hamlin Rd., Utica 48087 [S] [BR]	OAKLAND
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<b>V</b> Van Buren County Road Commission, Box 156, Lawrence 49064 [S, P, BR]	VAN BUREN
Van Every, Charles, 42100 W. Eleven Mile Rd., Novi 48050 [P] [BR]	OAKLAND
Velting Contractors, Inc., 2020 Newark Ave., SE, Grand Rapids 49507 [P] [BR]	KENT
Vermontville Gravel Co., R#1, Vermontville 49096	EATON
Vergate & Sons Sand & Gravel, 44680 Elizabeth, Mt. Clemens 48043	MACOMB
Vollmer Redi-Mix, 196 S. Caseville Rd., Pigeon 48755 [D, S]	HURON
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<b>W</b> Wagner Ready-Mix, 8260 Sand Beach Rd., Harbor Beach 48441 [S]	HURON
Washtenaw County Road Commission, 555 N. Zeeb Rd., Ann Arbor 48103 [BR]	WASHTENAW
Washtenaw Sand & Gravel, Inc., 4984 Earhardt, Ann Arbor 48103 [S]	WASHTENAW
Waterbury, K., Contractor, R#6, Box 19, U. S. 27 North Coldwater 49036 [S, P, BR]	BRANCH (HMS)
Wayne Sand & Gravel, Inc., P. O. Box 267, Wayne 48184 [D] [BR]	WAYNE
Weaver, Ronald, Gravel Co., Box 116, Dansville 48819 [P]	CLINTON, INGHAM, IONIA, SHIAWASSEE
Weber's Sand & Gravel, 350 W. Silverbell Rd., Pontiac 48055 [P, S]	OAKLAND
Weldon's Transit Mix, 1184 N. County Farm Rd., Harrison 48625 [S] [BR]	CLARE
West Branch Concr. Prod., Inc., 3350 Rau, West Branch 48661 [S]	OGEMAW
West Shore Constr. Co., Inc., 188 Jefferson, P. O. Box 77, Zeeland 49464 [P]	OTTAWA
Wexford County Road Commission, P. O. Box 88, Cadillac 49601 [S]	WEXFORD
Wexford Gravel Co., P. O. Box 578, Cadillac 49604 [P]	WEXFORD
Wheeler Transit Mix Concrete Co., Rt. #1, Box 741, Greenville 48838 [S]	MONTCALM
Whit Pond Gravel Co., (Div. of Kuert Concrete Inc.) 3113 Lincoln Way West, South Bend, Ind. 46628	CASS
White, Alden & Sons, Rt.#3, Box 343, Watervliet 49098 [S]	BERRIEN
Whitehall Gravel Co., 3278 Colby Rd., Whitehall 49461 [S]	MUSKEGON
Whitehead, I. L., Co., 1107 W. Easterday Ave., Sault Ste. Marie 49783 [P]	CHIPPEWA, MACKINAC
Whites Washed Sand & Stone, Box 283, Houghton Lake 48629 [S, BR]	ROSCOMMON

CONSTRUCTION SAND & GRAVEL (CONT'D.)

Name and Address (Michigan)	County
Whittaker & Gooding Co., 5800 Cherry Hill Rd., Ypsilanti 48197 [S]	WASHTENAW
Whittum's Gravel Co., R#4, Eaton Rapids 48827 [S, BR]	EATON
Wiggins, Max & Sons, Merritt 49667 [P]	MANISTEE, MISSAUKEE
Williams Bros. Asphalt Paving Co., Box 54, Saranac 48881 [P, S, BR]	IONIA
Willson Bros., Inc., 3788 Rives & Eaton Rd., Rives Junction 49277 [D, S]	JACKSON
Worden, James, P. O. Box 13, Whittemore 48770	OGEMAW
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<b>Y</b> Yerington Construction Co., R#2, Box 34, Benton Harbor 49022 [P, S]	VARIOUS
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<b>Z</b> Zellar's Custom Crushing, 1406 S. Linden Rd., Flint 48504 [P]	MACOMB

(HMS) = Heavy media separation equipment

[D] = Dredge; [P] = Portable; [S] = Stationary; [BR] = Bank Run; [DL] = Dragline

LATE ADDITIONS

Name and Address	County
A & B Gravel Co., Rt. 1, East Lime Lake Rd., Cedar, Mich. 49621	LEELANAU
Binns Gravel & Ready-Mix Co., Mulliken, Mich. 48861	IONIA
Boichot Concrete Prod. Corp., 1800 Turner St. Lansing, Mich. 48906	CLINTON
Dennison Construction, 7205 Simons, Lexington, Mich. 48450	SANILAC
Du-Pine Co., 1241 South Maple Rd., Ann Arbor, Mich. 48105	WASHTENAW
Felch Quarry Corp., P. O. Box 97, Felch, Mich. 49831	DICKINSON
Grand Rapids Gravel Co., 2700-28th St., SW., Grand Rapids, Mich.	OTTAWA
Hayes Sand & Gravel, 15205 Middlebelt Rd., Livonia, Mich. 48154	OAKLAND
Holloway Sand & Gravel Inc., 29250 Wixom Rd., Wixom, Mich. 48096	OAKLAND
Irish Hills Gravel Co., 1100 South Jackson Rd., Cement City, Mich. 49233	LENAWEE
Martin Aggregates Inc., Rt. 6, North Gilson Rd., St. Johns, Mich.	CLINTON
Proksch Construction Co., P. O. Box 151, Iron River, Mich.	IRON
Saginaw Aggregate Co., 12618 Seymour Rd., Burt, Mich. 48417	GENESEE
Sargent Sand Co., 2840 Bay Rd., Saginaw, Mich. 48602	WEXFORD
Schroeder, Doug, Inc., P. O. Box 236, Walled Lake, Mich. 48088	OAKLAND
Sniders Gravel Processing, 215 Lawton St., Mason, Mich. 48854	INGHAM

Name and Address	County
Spartan Aggregates Inc., Box 25, Holt, Mich. 48842	INGHAM, OAKLAND
Standard Aggregate Co., Rt. 6, East Colony Rd., St. Johns, Mich. 48879	CLINTON
Steele Bros., Excavating., Rt. 1, Box 26, Roscommon, Mich. 48653	ROSCOMMON
Stockwell Sand & Gravel, Rt. 1, St. Johns, Mich.	CLINTON
Tip-Top Gravel Co., R. R. #1, 9741 Foton Rd., Ada, Mich.	KENT
Tri-City Aggregate, Inc., 14300 Shields Rd., Holly, Mich. 48442	OAKLAND
Zellar Custom Crushing, 1406 S. Linden Rd., Flint, Mich. 48504	TUSCOLA

## Mineral Producers Listed By County

1974

Mineral producers are listed below by county. Location of the operation, when known, is given by section, township, and range, or nearest city to operation.

A brief narrative report on 1973 mineral production county by county is given in "Mineral Industry of Michigan, 1973", distributed with this Directory or available on request. Annual publications entitled: "Statistics Covering Costs and Production of Michigan Iron Mines", and "Michigan Oil and Gas Fields" are also available by writing the Publications Room, Department of Natural Resources, Lansing, Michigan 48933.

### Sulfur

Name & Address of Producer	Nearest Town	County
Total-Leonard Refineries, Inc. Alma, Michigan 48801	Alma	GRATIOT
Marathon Oil Company 1300 S. Fort Street Detroit, Michigan 48217	Detroit	WAYNE

### ALCONA

Alcona Co. Road Comm.	NW NW 14 28N 8E SW SW 12 26N 9E SW NE 4 28N 5E	NW SE 23 27N 8E NE SW 1 26N 9E SE NE 7 26N 6E NW NW 12 25N 6E Unknown	Sand and gravel " " " " " " " " " " " " " " "
H. Hilderbrand Sand & Gravel State of Michigan	W $\frac{1}{2}$ SW 32 25N 9E NE NW 34 27N 7E	NE NE 12 25N 6E SW SW 32 27N 5E	" " " " " " " " "

### ALGER

Alger Co. Road Comm.	NE SW 7 49N 13W SE SE 11 47N 17W SE NE 15 46N 19W SE NE 32 46N 21W NE 4 45N 21W SW NE 10 45N 20W SW 33 45N 22W	SE SE 10 49N 14W SE NE 8 46N 17W SW NW 6 46N 20W SE NE 34 46N 21W NE 9 45N 21W SE NE 28 45N 21W NE NE 34 45N 21W NE 7 44N 21W	Sand and gravel " " " " " "
Fox Valley Construction Co. State of Michigan	SW NW 25 44N 21W NE SE 15 47N 17W	Various NE NE 11 45N 21W	" " " " " "

### ALLEGAN

Allegan Co. Rd. Comm. Gerald Arnsman Charles E. Douglas	Belden, pits 34 2N 12W 26 4N 11W	Sand and gravel Marl Peat (reed-sedge)
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ALLEGAN (con't.)

Fleming Gravel Company	SE NE 1 3N 3W	26 3N 14W	Sand and gravel
Hamilton Block & Redi-Mix		11 & 14 2N 12W	" " "
Miller Sand & Gravel Co.		NE SW 12 2N 12W	Marl
Emil Pavlak		NW SE 18 4N 13W	Sand and gravel
Pickett & Schreur	W $\frac{1}{2}$ SE 24 1N 1W	SW NE 34 3N 13W	" " "
Smith Sand & Gravel	24 1N 12W	17 1N 14W	" " "

ALPENA

Alpena Co. Road Comm.		NW SW 13 30N 7E	Sand and gravel
		SW 35 31N 6E	" " "
		E $\frac{1}{2}$ NW 24 32N 8E	" " "
		13 32N 7E	" " "
		(Unknown)	" " "
Copping Trucking		35 32N 7E	" " "
Bernard Dowling Trucking		NE SE 23 32N 8E	" " "
Earl Dubey and Sons, Inc.		SE 32 32N 8E	" " "
Huron-Cement Division (National Gypsum Corp.)		NE 30 31N 7E	Shale
		24 31N 8E	Cement
		13 31N 8E	Limestone, crushed
State of Michigan		NE SW 12 31N 6E	Sand and gravel

ANTRIM

Antrim Co. Rd. Comm.		NW NE 23 29N 8W	Sand and gravel
		NE NE 2 29N 6W	" " "
		SE SE 14 29N 7W	" " "
		NE SW 14 30N 8W	" " "
Drenth Bros. Inc.	NW SE 14 32N 8W		" " "
Medusa Cement		NW SW 24 32N 8W	Shale
Mich. State Hwy. Dept.	(Contractor)		Sand and gravel

ARENAC

Arenac Co. Road Comm.		NE NW 5 19N 7E	Limestone, crushed
		NW SE 20 10N 3E	Sand and gravel
Bay County Road Commission		SE SE 34 20N 5E	Limestone, crushed
C & D Stone Co.	NW 5 19N 7E		Limestone crushed
Eastman Gravel pit		SW NW 36 19N 5E	Sand and gravel
R. E. Glancey Inc.	13 & 14 20N 7E		Limestone, crushed
Iosco Co. Road Comm.		SW 24 20N 7E	Limestone, crushed
Van Deusen Stone Co.		NW 5 19N 7E	Limestone, crushed

BARAGA

Baraga Co. Road Comm.		7 49N 33W	Sand and gravel
		15 48N 33W	" " "
		NW 23 51N 31W	" " "
Hutala Sand & Gravel		(Unknown)	" " "

BARAGA (con't.)

State of Michigan	SW SE 8 47N 34W	SW NE 12 48N 32W	Sand and gravel
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BARRY

Barry Co. Road Comm.		Various	Sand and gravel
Cole Gravel Co.		NE NW 7 3N 10W	" " "
Cole Brothers Contractors, Inc.		(for county)	" " "
William Currier		NW SE 6 4N 10W	Marl
Nashville Gravel Co.		HMS NE NW 10 1N 7W	Sand and gravel
Rieth-Riley Construction Co.		10 1N 9W	" " "
Stidham Gravel Co.		SW NW 12 3N 9W	" " "
Sutherland, Warren		Sutherland pit	" " "
Yerington Construction		30 4N 10W	" " "

BAY

Martin-Marietta Cement Co. Great Lakes Div.		NE 14 14N 5E	Cement
Monitor Sugar Div.		Bay City	Lime
Sargent Sand Co.		Gravel Flats	Industrial Sand

BENZIE

Benzie Co. Road Comm.		Various	Sand and gravel
Schworm & Son		SW NW 25N 16W	" " "
	SE SE 33 25N 13W	NE NE 11 26N 15W	" " "
	SW SW 28 26N 14W	SE NE 7 27N 14W	" " "
	NE NE 14 26N 15W		" " "

BERRIEN

Arrowhead Silica Corp.		SW5 NW 8 6S 19W	Industrial Sand
Burkett Construction Co.		(Unknown)	Sand and gravel
Crosby Marl Co.		14 8S 20W	Marl
Industrial Sand Div. Martin-Marietta Aggregates		18 6S 19W	Industrial Sand
Kiell Excavating		SE 15 7S 17W	Sand and gravel
George Miller & Sons, Inc.		St. Joseph	" " "
Trautman Sand & Gravel		27 7S 18W	" " "
Alden White & Sons Contractor		27 3S 17W	" " "
Yerington Construction	NE SW 6 6S 17W	27 7S 18W	" " "
		35 6S 18W	" " "

BRANCH			
Branch Co. Road Comm.		Various	Sand and gravel
Schley, Bill		Unknown	" " "
Thompson Constr. Co.		SE 20 6S 6W	" " "
Wallace Waterbury Gravel Co.		SW SE 4 6S 6W	" " "
Yerington Construction		SW SW 12 6S 6W	" " "

CALHOUN			
David Alwood		NE 21 4S 7W	Marl
Calhoun Co. Road Comm.	5 4S 7W	SW 9 3S 7W	Sand and gravel
	24 & 25 4S 7W	5 2S 4W	" " "
	34 3S 6W	32 & 33 2S 5W	" " "
	14 2S 5W	SW 12 1S 6W	" " "
	27 2S 6W	NE 13 4S 6W	" " "
Case Brothers		28 4S 7W	Marl
Cole Brothers Contractors, Inc.	S $\frac{1}{2}$ 4 2S 8W	SW NW 25 4S 6W	Sand and gravel
	NE NE 34 3S 6W	NE 17 3S 4W	" " "
Emil Combs Grav. & Ready-Mix		SW SE 18 3S 4W	" " "
Hoffman Brothers Excavating		11 2S 8W	" " "
Michigan Aggregate Corp.		SE SW 12 1S 6W	" " "
George Miller	NE SE 5 4S 7W	SE SW 5 2S 4W	" " "
Rieth-Riley Const. (5 Pits)		Unknown	" " "
Yerington Construction		SE SE 32 2S 5W	" " "
		NW NW 35 3S 6W	" " "

CASS			
Cass Co. Road Comm.	NE SE 16 6S 15W	SW NW 24 6S 15W	Sand and gravel
Indiana Hwys. Materials, Inc.		NW SE 19 6S 16W	" " "
Nieb Concrete Prod.		NW SW 1 8S 16W	" " "
Pipher's Marl Service		NW NW 15 7S 16W	" " "
Poehlman & Sons		15 5S 14W	Marl
Rieth-Riley Const. (3 Pits)		12 & 13 7S 16W	"
Three S Gravel Co.		Unknown	Sand and gravel
Whit Pond Gravel Co.		NW NW 23 6S 15W	" " "
Yerington Construction		NW SE 10 5S 16W	" " "

CHARLEVOIX			
Norman Bartlett		NE SW 30 32N 6W	Sand and gravel
Charlevoix Co. Rd. Comm		Various	" " "
Lilak & Moore		SW NW 4 33N 8W	" " "
Medusa Cement		SW 28 34N 8W	Cement
(Division of Medusa Corp.)			
State of Michigan	NW NW 6 33N 4W	NW NW 31 33N 4W	Sand and gravel
	SW SW 36 33N 4W	NW SE 31 34N 8W	" " "
	SW SW 11 37N 10W	SE SE 13 37N 11W	" " "
	SW SW 21 38N 10W	NW NW 27 38N 10W	" " "
	SE NE 35 38N 10W		" " "
D. L. Smith Sand & Gravel		NE NW 28 32N 7W	" " "

CHEBOYGAN			
Afton Stone Inc.		N $\frac{1}{2}$ SE 25 35N 2W	Limestone, crushed
Henry Dean & Sons		SW 19 34N 2W	Sand and gravel
Limestone Products Co.		SE 25 35N 2W	Limestone, crushed
State of Michigan		NE NW 10 35N 1E	Sand and gravel

CHIPPEWA			
Bethlehem Mines Corp.		3 & 10 41N 5E	Dolomite, crushed
Montero Excavation Inc.		NW NW 24 47N 1W	Sand and gravel
C. G. Sanderson		NW NW 24 47N 1W	" " "
State of Michigan	SE SW 3 41N 6E	NW SW 20 42N 6E	" " "
I. L. Whitehead Co.	NW NW 25 47N 1W	Lutz pit	" " "
	SE SW 35 48N 7W	23 45N 2W	" " "
		NE NE 23 47N 1W	" " "

CLARE			
Clare Co. Road Comm.		Various	Sand and gravel
Fisher Sand and Gravel	NE NE 10 18N 4W		" " "
Hubscher & Son, Inc.	SE SE 32 17N 3W	Loomis pit	" " "
Niemi & Co., Inc.	34 19N 3W	Martz pit	" " "
Tri County Sand & Gravel	NW NW 2 18N 4W	McCulloch pit	" " "
Weldons Transit Mix	SE SE 33 19N 4W		" " "

CLINTON			
Boichot Concrete Prod. Corp.		NW NW 27 5N 2W	Sand and gravel
		(HMS)	" " "
		NE SW 3 5N 2W	" " "
		11 7N 1W	" " "
Central Mich. Sand and Gravel Co.		Various	" " "
Clinton Co. Road Comm.		St. Johns	" " "
Leo M. Fedewa		NE SW 34 5N 4W	Shale (for tile mfg.)
Grand Ledge Clay Prod. Co.		NE NW 33 5N 4W	Sand and gravel
Harman Sand & Gravel		SE NW 34 8N 2W	" " "
Karber Block Co.		SE SE 29 5N 4W	" " "
Pryor Bros. Gravel Co.	NE NW 33 5N 4W	NW SW 17 5N 3W	" " "
Schlegel, Carl Inc.		Drumheller	" " "
Spartan Aggregates	Smith & Pohl pits		" " "
Standard Redi-Mix, Inc.		NE NW 36 8N 2W	" " "

CRAWFORD			
Crawford County Road Comm.		Various	Sand and gravel
Dept. of Military Affairs	Camp Grayling pit		" " "
Hamlin Excavating		Unknown	" " "
Jack Millikin	NE NE 16 25N 3W	5 27N 3W	" " "

CRAWFORD (con't.)

Jess Stanley Gravel		Unknown	Sand and gravel
State of Michigan	SW NW 27 25N 2W	NE NE 16 25N 3W	" " "
	NE SE 20 22N 11W	SW NE 15 28N 4W	" " "

DELTA

Bichler Gravel & Concrete	E½ NE 14 40N 23W	NE 1 39N 23W	Sand and gravel
		SW 1 39N 23W	Dolomite, crushed
Caspian Constr. Co.		SW 6 40N 20W	" " "
Delta Co. Road Comm.		SE SW 11 39N 21W	" " "
	NE NE 5 38N 24W	SW NE 12 29N 23W	Sand and gravel
	NW NW 30 38N 19W	NW SE 17 40N 21W	" " "
	SW SW 19 38N 24W	NE NE 14 40N 23W	" " "
		NE NW 8 40N 23W	" " "
Fox Valley Construction Co.		Various	" " "
Gunnar F. Holmberg		15 40N 22W	" " "
Krygoski Construction Co.		NE NE 33 39N 23W	Dolomite, crushed
Marvic & Sons		27 39N 24W	Sand and gravel
Paquin & Sons Inc.		Unknown	" " "

DICKINSON

Caspian Const. Co.		NW NW 26 42N 30W	Feldspar
	SE SW &	SW SE 30 42N 29W	Amphibolite
		SE SW 26 42N 28W	Marble, crushed
	SW SW 25 41N 28W	NE SW 12 39N 30W	Sand and gravel
		NE NE 19 40N 30W	" " "
Champion, Inc.		NE NE 19 40N 30W	" " "
Dickinson Co. Road Comm.		Various	" " "
Fayas & Sons, Inc.		5 39N 30W	" " "
Fox Valley Construction Co.		Various	" " "
Groveland Mine (M. A. Hanna Co.)		Open pit 31 42N 29W	Iron Ore
Miller Products & Supply Co.		NW SW 7 40N 30W	Fill Sand
State of Michigan	SE SE 35 40N 28W	SW SW 30 41N 29W	Sand and gravel

EATON

Briggs Ready Mix and Gravel		SE 13 2N 5W	Sand and gravel
		(HMS)	" " "
Cheney Limestone Co.		NE 29 1N 6W	Limestone, crushed
Crandell Trucking Co. (3 pits)	15 2N 6W	NW 9 2N 4W	Sand and gravel
Grand Ledge Clay Products		SE 3 4N 6W	Shale (for tile mfg.)
Hilu Peat Co.	21 2N 4E		Peat (humus)
Pryor Brothers		NE NE 1 4N 5W	Sand and gravel
		E½ SW 9 3N 3W	" " "

EATON (con't.)

Rieth Riley Construction Co.		33 1N 5W	Sand and gravel
Vermontville Gravel Co.		NE NE 29 1N 6W	" " "
Whittum's Gravel Co.		SE NE 5 1N 3W	" " "

EMMET

Emmet Co. Road Comm.	SW NW 20 36N 4W	NW NW 27 38N 4W	Sand and gravel
	NW SE 7 35N 4W	SE SW 34 38N 4W	" " "
	NW NE 25 35N 5W	NE NW 17 27N 5W	" " "
	SE NW 14 28N 5W	SE 34 35N 4W	" " "
Koboski Coal Co.		Unknown	" " "
Northern Concrete Products Co.		2 34N 6W	" " "
Penn-Dixie Industries		2 34N 6W	Cement
		3 34N 6W	Limestone, sand and gravel and Shale (for cement)

GENESEE

Ferguson Excavating Co.		N½ 18 & S½ 7 8N 8E	Sand and gravel
Holloway Sand & Gravel Co., Inc.		NW SW 10 6N 5E	" " "
Holloway Sand & Gravel	Genesee Pit	3 9N 8E	" " "
Kurtz Gravel Co.	SE NW 20 7N 8E	SE SW 1 8N 7E	" " "
		12 8N 7E	" " "
H. C. Mathews Gravel		S½ 7 8N 8E	" " "
Molesworth Contr. Co.		Unknown	" " "
Neuman Sand & Gravel		W½ 23 8N 5E	" " "
Otisville Stone Co.		N½ 22 9N 8E	" " "
Snelenberger Gravel Co.		SE 16 9N 5E	" " "
Spartan Aggregates	Schneider pit		" " "

GLADWIN

R. G. Glancy	Villeneuve pit		Sand and gravel
State of Michigan	SW SE 10 20N 2W		" " "

GOGEBIC

Globe Industries, Inc.		NW NE 10 47N 47W	Sand and gravel
Gogebic Co. Road Comm.		Various	" " "
Greenthumb Greenhouse		Unknown	" " "
City of Ironwood		NE NE 3 46N 47W	" " "
Ironwood Concrete Products	SW SW 4 46N 42W	(2 pits)	" " "

GRAND TRAVERSE

Beeman Trucking	36 12N 12W	Sand and gravel
Concrete Service Corp.	SE SW 5 27N 11W	" " "
Lamar Gravel Co.	27 26N 11W	" " "
Long Lake Gravel	Unknown	" " "
I. W. Schworm & Son, Inc.	Traverse City	" " "

GRATIOT

Gratiot Co. Road Comm.	NE NE 3 12N 4W	NE SW 29 12N 3W	Sand and gravel
	SE NW 17 11N 1W	NW SE 10 11N 1W	" " "
	NE SW 33 11N 4W	SW NW 22 12N 4W	" " "
	NE NW 10 11N 4W	SE SE 13 12N 3W	" " "
	NW NW 29 12N 3W	SE NW 24 12N 2W	" " "
	SE SW 23 12N 2W	SE NE 23 12N 2W	" " "
	NE NW 21 12N 1W	NW SE 31 12N 1W	" " "
Hubscher & Son	NE SE 31 12N 1W	SW SE 2 9N 1W	" " "
Michigan Chemical Corp.	NE SE 34 11N 4W	3 10N 4W	" " "
		24 12N 3W	Bromine, Calcium- Magnesium Chloride, Magnesium Compounds, Salt
P. & B. Gravel	NW SE 9 10N 1W		Sand and gravel
Roslund Gravel Co.	NW NE 36 12N 3W		" " "
Total-Leonard Inc.	Alma		Sulfur

HILLSDALE

Cole Brothers Contractors Inc.	35 7S 3W	Sand and gravel
Hillsdale Co. Road Comm.	Various	" " "
Hoover Brothers	NE SE 23 8S 2W	" " "
Michigan Aggregates	NE 7 & NW 8 5S 1W	" " "
	(HMS)	" " "
Quality Aggregate Co.	SE 3 7S 2W	" " "

HOUGHTON

George Hocking Constr. Co.	11 54N 34W	12 55N 34W	Crushed Basalt
Houghton Co. Road Comm.	29 52N 36W	11 & NW 21 54N 34W	" " "
	C SE 10 54N 34W	NW SE 29 52N 36W	" " "
Superior Sand and Gravel		NE SW 27 55N 34W	Sand and gravel

HURON

Brade Ready-Mix	Amos, Dunlap, Wood & Wahl Pits	Sand and gravel
Huron Co. Road Comm.	SE SE 17 16N 13E	" " "
Michigan Sugar Co.	Sebewaing	Lime (for sugar mfg.)
Vollmer Sand & Gravel	NE SE 20 15N 11E	Sand and gravel
Wagner Ready-Mix	SW SW 22 16N 15E	" " "
	E $\frac{1}{2}$ E $\frac{1}{2}$ SW 27 16N 15E	" " "
Wallace Stone Co., Div. J. P. Burroughs	5 & 6 16N 10E	Limestone, crushed and dimensional
Tanton Ready-Mix		Sand and gravel

INGHAM

Barr Sand & Gravel, Inc.	SE SW 25 2N 1W	Sand and gravel
Builders Redi-Mix, Inc.	NE NE 17 3N 1W	" " "
Fiser Supply Co.	SW SE 34 4N 2W	" " "
Ingham Co. Road Comm.	Various	" " "
Ketchum & Sons	Various	" " "
Luoma Sand & Gravel	SW NW 29 3N 2W	" " "
Michigan Aggregates Corp.	C N $\frac{1}{2}$ 12 2N 2W	" " "
Pitchford Sand & Gravel	Unknown	" " "
Schlegal, Carl Inc.	Unknown	" " "
Spartan Aggregates	SE SW 3 4N 2W	" " "
	Barr, Scarlett & Butler Pits	SE SW 25 2N 1W
Ronald Weaver Gravel Co.	NE SE 24 2N 2W	" " "
	NE NE 34 3N 1E	SE NW 23 2N 1E
	NE SE 10 3N 1E	" " "
Wicker's Inc.	(?) 3N 2W	Peat (moss)

IONIA

Cole Bros	SW NW 19 8N 5W	Sand and gravel
Crandell, Bros.	27 5N 5W	" " "
Ionia Co. Road Comm.	NW NE 33 7N 7W	" " "
	SE NE 24 5N 7W	SE SW 18 5N 5W
	NE SW 15 7N 5W	NW SW 27 6N 5W
Weaver Gravel Co.	Vroman Pit	6 7N 7W
Williams Bros.		N $\frac{1}{2}$ SE 32 7N 7W

IOSCO

R. E. Glancy, Inc.	SE SW 10 24N 5E	Sand and gravel
Iosco Co. Rd. Comm.	Various	" " "
Michigan Gypsum Co.	25 21N 5E	Gypsum
National Gypsum Co.	26 & 35 22N 6E	"
U. S. Gypsum Co.	22 & 27 21N 7E	"

IRON

Caspian Constr. Co.	NW NE 31 43N 35W	S $\frac{1}{2}$ SW 22 43N 35W	Sand and gravel
Inland Steel Co.:			
Sherwood Mine		23 43N 35W	Iron Ore
Iron Co. Road Comm.	NE NE 18 43N 32W	22 43N 34W	Sand and gravel
	NE NW 14 42N 35W	SE SW 25 44N 34W	" " "

ISABELLA

Fisher Sand & Gravel Co.	32 17N 3W	NW 12 14N 3W	Sand and gravel
Hubscher & Son	SW SW 4 16N 3W	E $\frac{1}{2}$ SW 20 14N 5W	" " "
Isabella Co. Road Comm.	SW NW 25 14N 6W	SE NE 19 16N 6W	" " "
	SW SW 27 14N 6W	SW SE 6 16N 3W	" " "
	SE SW 14 14N 5W	NE SE 27 15N 6W	" " "
	NE NE 25 14N 5W	NW SE 19 15N 5W	" " "
	SE SE 21 13N 6W	SW NE 5 15N 3W	" " "
	SE NE 26 13N 6W	SW NE 14 14N 6W	" " "
		NE SW 8 13N 3W	" " "
Isabella Sand & Gravel		Unknown	" " "
McGuirk & Sons		Unknown	" " "
Pickitt & Schreur, Inc.		Various	" " "

JACKSON

J. V. Burkett Constr. Co.	NW NE 28 3S 3W		Sand and gravel
H & H Sandstone Co.		Napoleon	Sandstone
Jeffrey Limestone Co.		SE 30 2S 2W	Sand and gravel
Jude Sandstone Qy.		NW NE 6 4S 2E	Sandstone
		SW SE 31 3S 2E	" "
Klump Bros. Gravel Co.		SE SE 1 2S 2E	Sand and gravel
Napoleon Sandstone Qy.		NW NE 6 3S 2E	Sandstone
Palmer Sand & Gravel		SW NW 8 3S 1E	Sand and gravel
Pickett & Schreur, Inc.		34 3S 3W	" " "
		24 3S 3W	" " "
Richardson Asphalt		Unknown	" " "
Stevick Gravel Co.		Cement City	" " "
Willson Bros., Inc.		Rives Junction	" " "

KALAMAZOO

American Aggregates Corp.	SW NW 15 1S 11W		Sand and gravel
Balkema Sand & Gravel	SE SE 17 2S 10W		" " "
Cole Bros. Const. Co.	NW NE 7 2S 9W		" " "
Consumers Sand and Gravel	SE NE 13 2S 11W		" " "
Hayward Dry Marl	8 4S 10W		Marl
Peter Constr. Co.	SW NE 7 2S 11W		Sand and gravel
	NW SE 5 4S 12W		" " "
Stony Lake Sand & Gravel	NE NE 22 1S 9W		" " "

KALKASKA

Kalkaska Co. Road Comm.	SW NE 33 28N 8W	SE SE 26 25N 8W	Sand and gravel
	NE SE 10 28N 7W	SE NE 14 27N 8W	" " "
Schworm & Sons	Fry pit		" " "
State of Michigan	NE NW 31 27N 5W		" " "

KENT

Coit Ave. Gravel Co.		NE SE 29 8N 11W	Sand and gravel
Contractor's Gravel Co.		Sparta	" " "
Cousineau Gravel	Chadwick pit	8 6N 10W	" " "
Ed DeVries & Sons		NE 22 7N 12W	" " "
Flemming Gravel Co.		NW 8 6N 10W	" " "
Georgia-Pacific Corp.		NW 24 6N 11W	Gypsum
Gilltsse Construction Co.		Grandville	Sand and gravel
Great Lakes Gravel Co.		NW NE 31 7N 10W	" " "
Grand Rapids Gypsum Co.		34 6N 12W	Gypsum
Grand Rapids Gravel Co.	E $\frac{1}{2}$ NW & SW	NE 16 6N 12W	Sand and gravel
		26 8N 11W	" " "
		5 6N 12W	" " "
Kent Co. Road Comm.	SW SE 36 5N 9W	NW SE 32 5N 11W	" " "
	NE SE 20 6N 9W	NE NE 17 6N 9W	" " "
	SW NE 5 6N 12W	NE NE 32 7N 11W	" " "
	NW SW 26 7N 11W	NW 8 7N 12W	" " "
	NE NW 13 8N 11W	SW NE 23 10N 11W	" " "
	NE SE 13 10N 12W	SE SW 11 10N 12W	" " "
		NW 15 10N 12W	" " "
Paul C. Miller		NE SW 19 8N 11W	" " "
Northeast Gravel & Excavating		NE SW 24 8N 11W	" " "
Petersen Gravel & Excavating		SW SW 12 8N 11W	" " "
Pickett & Schreur Inc.	NE NE 25 9N 11W	SW SE 23 8N 11W	" " "
	SE NE 35 9N 11W	W $\frac{1}{2}$ NE 32 8N 11W	" " "
	19 7N 9W	NE NE 10 6N 9W	" " "
	7 6N 10W	NE NW 6N 9W	" " "
	SW NW 1 8N 9W	28th Street	" " "
	N $\frac{1}{2}$ NW 24 10N 11W	Bliss	" " "
	NE 20 7N 10W	Cannonsburg	" " "
	Finkler	Cascade	" " "
	21 7N 10W	(2 pits)	" " "
Rieth-Riley Constr. Co. Inc.		SE SE 33 7N 12W	" " "
Riverside Sand and Gravel		4 & 9 1N 12W	" " "
Rocks, Sand & Gravel Co.		Burton St. pit	" " "
Veiting Contractors, Inc.		Grand Rapids	Peat (humus)
Wonderland Peat			

KEWEENAW

Keweenaw Co. Road Comm.	SE SE 7 57N 32W	NW NW 8 58N 30W	Sand and gravel
	SE SE 5 57N 32W	SW SW 8 57N 32W	" " "

LAKE			
Lake Co. Road Comm.	SE NE 23 18N 13W SE NE 29 17N 12W	NE SW 21 19N 14W SE NW 12 19N 12W	Sand and gravel " " "

LAPEER			
Anderson Peat Co.		NE SE 23 7N 12E	Peat
Corey & Hartwig		SW 20 7N 10E	Sand and gravel
John, R. Sand & Gravel Co.	10 6N 10E	Metamora pit	" " "
Lapeer Co. Road Comm.	NW SW 21 7N 11E	SE NE 18 9N 11E NW 27 9N 12E	" " "
Molesworth Contr. Co. (4 pits)		Unknown	" " "
NAPCO Aggregate Co.		33 6N 12E	" " "
St. Clair Co. Road Comm.	SE SE 27 9N 12E	NW NW 5 6N 11E	" " "
Solliere Peat & Sod Co.		SW SW 25 7N 12E	Peat (reed-sedge)
Wilkinson Chemical Co.		21 10N 10E	Ca-Mg Chloride

LEELANAU			
Leelanau Co. Road Comm.		SW SW 22 28N 13W	Sand and gravel
Peninsula Asphalt Corp.		NE NW 16 28N 13W	" " "
Schworm & Son		SE NE 28 30N 12W	" " "
Traverse City Sand & Gravel	35 28N 12W	Niedzielski pit	" " "

LENAWEE			
Adrian Sand and Gravel	NE SE 4 6S 4E	SE 16 7S 3E	Sand and gravel
Brady Sand and Gravel		SE 32 5S 4E	" " "
J. V. Burkett Constr.		SE SE 4 6S 4E	" " "
Comfort Brick & Tile Co.		SE 2 6S 4E	Clay (for clay products)
Klumpp Bros.		SE NW 8 5S 1E	Sand and gravel
Stamm Bros. Gravel Co.		SW NE 19 7S 3E	" " "
Standard Gravel Co.		NW 5 5S 4E	" " "
Tecumseh Gravel Co.		SW NE 4 6S 4E	" " "
Whittaker & Gooding		SE NW 19 5S 4E	" " "
Yerington Construction		30 7S 3E	" " "

LIVINGSTON			
Albert Sand & Gravel		SW NE 6 3N 3E	Sand and gravel
American Aggregates Corp.	NE 24 2N 6E (HMS)	NE NE 11 1N 6E (HMS)	" " "
Bennett Excavating & Gravel Co.		33 & 34 1N 5E	" " "

LIVINGSTON (con't.)

Bentley Sand and gravel		SE NW 5 4N 6E	Sand and gravel
D. & J. Gravel Co.		SW SW 32 3N 4E	" " "
Fenton Gravel Co.	NE SE 2 4N 6E	SW NE 2 1N 3E	" " "
Livingston Co. Road Comm.	SW NE 30 1N 6E	SW NE 31 4N 6E	" " "
	NW NW 26 2N 4E		" " "
	SW SW 11 4N 5E	NW SW 14 4N 6E	" " "
	NW NW 36 4N 5E	SE SW 13 3N 4E	" " "
	NE SW 33 3N 5E	NE SW 24 3N 6E	" " "
	SW SE 23 2N 5E	NW SE 32 2N 5E	" " "
	SE NE 21 2N 4E	NW NW 5 2N 3E	" " "
	NW SW 19 2N 3E	NE NE 20 1N 3E	" " "
	SW SW 14 1N 4E	SE NE 12 1N 4E	" " "
Morgan Sand & Gravel		9 2N 6E	" " "
Natural Aggregates Corp.		NE 24 2N 6E	" " "

LUCE			
Gene Brow Constr.		Newberry	Sand and gravel
Luce Co. Road Comm.		SE NE 14 45N 10W	" " "
State of Michigan	NE SW 20 48N 8W	NW NW 17 48N 8W	" " "
	SE NE 3 49N 11W		" " "

MACKINAC			
A. O. Company	SW 34 44N 7W		Dolomite
Inland Lime & Stone Co.		6 42N 12W	Limestone, crushed
Mike Mangene, Inc.		SW SE 5 42N 1W	Sand and gravel
Mich. Limestone Operation,			
U. S. Steel, Cedarville Quarry		10 42N 1E	Limestone, crushed
State of Michigan	SW SE 5 42N 1E	SE NE 30 42N 12W	Sand and gravel
	NW NE 32 43N 11W	SE SE 19 43N 12W	" " "
I. L. Whitehead Co.		SE SW 19 42N 1E	" " "
		5 42N 1W	" " "
		SW NW 13 40N 4W	" " "

MACOMB			
Advance Bldg. Materials Co.		SE NW 18 4N 12E	Sand and gravel
American Aggregates Corp.		SW NW 4 4N 12E	" " "
		(HMS)	" " "
George S. Carter Co., Inc.		Romeo	" " "
Compton Sand and Gravel		SE 5 4N 12E	" " "
Faulkender Sand & Gravel Inc.		Hamiln pit	" " "
Don Foster Inc.		SW 3 4N 14E	" " "
Great Lakes Gravel Co.		SW SW 31 3N 12E	" " "
Fred Katz		SW 16 4N 14E	" " "
Macomb Sand & Gravel		SW SW 30 3N 12E	" " "
Marssock Sand & Gravel Inc.		Marssock pit	" " "

MACOMB (con't.)

Molesworth Contracting Co.	Carter pit	Sand and gravel
Morgan Sand & Gravel	30 3N 12E	" " "
Natural Aggregates Corp.	NW NE 8 4N 12E	" " "
Vergate & Sons Sand & Gravel	(Ext.) E $\frac{1}{2}$ SW 10 2N 13E	" " "
Whitehall Gravel Co.	NE NW 21 4N 14E	" " "
Zellars Custom Crushing		" " "

MANISTEE

Gronlund Gravel Co.	NE SE 7 23N 14W	Sand and gravel
	NE 14 21N 13W	" " "
	SE 6 23N 14W	" " "
Manistee Co. Road Comm.	Various	" " "
Hardy Salt Co.	Manistee	Salt, evaporated
Martin-Marietta Chemical Co. Refractories Div.	SE 18 21N 16W	Magnesium compounds
Morton Chemical Co.	12 21N 17W	Bromine, Magnesium Compounds, Calcium Chloride
Morton Salt Co.	Manistee	Salt
Sand Products Corp.	N $\frac{1}{2}$ 11 21N 17W	Industrial Sand
Sievert Bros. Inc.	31 21N 16W	Sand and gravel
Max Wiggins & Sons	NE NE 15 21N 13W	" " "

MARQUETTE

Caspian Constr. Co.	SW SW 5 47N 26W	NW NE 28 45N 25W	Sand and gravel
		NE SW 29 45N 25W	" " "
		NW NE 26 48N 30W	" " "
Champion, Inc.		19 47N 26W	Iron Ore
Cleveland-Cliffs Iron Co.:		1 47N 27W	" " "
Empire Open Pit Mine		7 46N 29W	" " "
Mather Mine		26 47N 27W	" " "
Republic Open Pit Mine		26 47N 27W	" " "
Tilden Open Pit Mine			" " "
Ken Hodgins & Son		Marquette	Sand and gravel
City of Ishpeming		Ishpeming	" " "
A. Lindberg & Sons, Inc.		NW NE 17 47N 25W	" " "
		SE SE 8 47N 25W	Dolomite, crushed
City of Marquette	NE SW 9 48N 25W	NE SW 10 48N 25W	Sand and gravel
Marquette Co. Road Comm.		NE NW 3 47N 28W	" " "
City of Negaunee		Negaunee	" " "

MASON

Cousineau Gravel, Inc.	Bass Lake & Ruby Creek pits	Sand and gravel
The Dow Chemical Co.	NW SW 23 18N 18W	Calcium chloride, Magnesium Compounds, Lime
Harbison-Walker Refractories	NE SE 23 18N 18W	Magnesium compounds
Mich. State Hwy. Dept.	(Contractor)	Sand and gravel
Sargent Sand Co.	SW 33 19N 18W	Industrial Sand
Towns Construction	(Unknown)	Sand and gravel

MECOSTA

Gummer's Peat Co.	N $\frac{1}{2}$ SE 28 13N 8W	Peat	
Mecosta Co. Road Comm.	NE SW 7 15N 7W	NE NE 32 15N 9W	Sand and gravel
	NW NE 35 15N 8W	SW SW 24 15N 10W	" " "
	SE NW 25 15N 9W	W $\frac{1}{2}$ SW 4 15N 9W	" " "
Paris Gravel Co.	NW SE 27 16N 10W	" " "	
State of Michigan	SW SE 12 15N 8W	" " "	

MENOMINEE

B. & K. Sand and gravel	26 34N 27W	Sand and gravel	
Fox Valley Construction Co.	Various	" " "	
Havelka, Gerald	19 33N 27W	" " "	
Johnson, Norman	Unknown	" " "	
Menominee Co. Road Comm.	SE NE 33 35N 26W	" " "	
	SE SE 4 39N 25W	" " "	
State of Michigan	N $\frac{1}{2}$ NE 36 36N 25W	SE NE 15 38N 26W	" " "

MIDLAND

The Dow Chemical Co.	Midland	Bromine, Magnesium Compounds, Calcium Chloride, Salt, Iodine
Midland Co. Road Comm.	Various	Sand and gravel

MISSAUKEE

Lake City Redi-Mix	NE NW 26 23N 7W	Sand and gravel
Missaukee Co. Road Comm.	Unknown	" " "
State of Michigan	SW NE 1 21N 5W	NE SW 13 23N 8W
Max Wiggins & Sons		5 22N 5W

MONROE

Appleman Farms	2 8S 6E	17 7S 7E	Peat (humus, reed- sedge)
Dundee Cement Co.	NW 6 6S 7E		Cement, Limestone, Clay
France Stone Co.		7 7S 9E	Dolomite, crushed
Monroe Quarry		13 6S 7E	" "
Ida Quarry			" "
Norman E. Link		Petersburg	Peat (humus)
Michigan Stone Co.			
Maybee Quarry		29 5S 8E	Dolomite, crushed
Ottawa Lake Quarry		SW 25 8S 6E	" "
Al Morgan Sand Co.	11 5S 7E	Wargle pit	Sand
Mustang Constr., Inc.	NE NE 24 5S 8E		Sand and gravel
F. W. Ritter & Sons, Co.		NE SW 16 5S 10E	Clay, Flower pots

MONTCALM

Anderson Gravel Co.		Unknown	Sand and gravel
Dyer Co.	NE NW 35 9N 8W	SW SW 9 12N 5W	" " "
	SW NE 7 11N 5W	NW 1 10N 6W	" " "
Montcalm Co. Road Comm.	NE 36 10N 6W	NW 26 9N 5W	" " "
Wheeler Transit-Mix Concrete Co.		E½ 34 9N 8W	" " "

MONTMORENCY

Chester, James Jr.		Unknown	Sand and gravel
Montmorency Co. Road Comm.		Various	" " "
State of Michigan	SE SE 23 29N 3E	NW NW 14 31N 2E	" " "
	NW NE 34 32N 2E		" " "

MUSKEGON

Hooker Chemical Co.		NE 31 12N 17W	Salt-Brine for chemical manufacturing
Paul C. Miller		SE SE 32 10N 13W	Sand and gravel
McCormick Sand Corp.		SW 16 11N 16W	Industrial Sand
Nugent Sand Co.		NE 3 9N 17W	" " "
Whitehall Gravel Co.		W½ NE 27 12N 17W	Sand and gravel
Yerington Construction		31 & 32 10N 13W	" " "

NEWAYGO

J. V. Burkett		NE 4 13N 12W	Sand and gravel
Cousineau Gravel, Inc.	NW SW 16 11N 11W	SE 4 13N 12W	" " "
		(2 pits)	" " "
Howard Eichenberg Contr.	NE SE 16 11N 13W	NW 16 16N 12W	" " "
K. V. Gravel Co.		26 14N 15W	" " "
Newaygo Co. Road Comm.		NE NW 21 12N 12W	" " "
Yerington Construction	SW NE 34 12N 13W	NE NW 26 15N 11W	" " "

OAKLAND

Ajax Paving Materials		SW SW 36 4N 16E	Sand and gravel
American Aggregates Corp.		NE NW 22 5N 10E	" " " (HMS)
Richard Beagle Sand & Gravel		NW SE 5 3N 11E	" " "
Compton Sand and Gravel		Unknown	" " "
Fletcher & Richard		23 1N 7E	Peat (humus)
Great Lakes Gravel Co., Inc.		36 5N 11E	Sand and gravel
Holly Sand & Gravel		NE SE 32 5N 8E	" " "
		(HMS)	" " "

OAKLAND (con't.)

Koenig Fuel & Supply Co. (HMS)	SW SE 24 5N 10E	NW 1 3N 8E	Sand and gravel
Lyon Sand & Gravel Div.	(HMS)	NW NE 13 1N 7E	" " "
Mabry & Melton		SE SW 30 3N 11E	" " "
Mickelson Corp.	(HMS)	NE SE 20 5N 10E	" " "
Molesworth Contracting Co.		Yoder pit	" " "
New Hudson Sand & Gravel		NW NE 33 2N 7E	" " "
Oxford Mining Co.		E½ NW 26 4N 8E	" " "
Oxford Peat Co.		Unknown	Peat
Portable Aggregate Producers, Inc.		Troy	Sand and gravel
Salem Gravel & Contr. Co.		E½ NE 2 4N 9E	" " "
Spartan Aggregates, Inc.		Kurtz pit	" " "
Tharp & Kosiba Sand & Gravel		Pontiac	" " "
Thompson McCully Sand and Gravel		Clarkston-Manchester	" " "
Tri-City Aggregates, Inc.		SW 19 5N 8E	" " "
Underwood Sand & Gravel		NW 2 3N 10E	" " "
		SE 11 3N 8E	" " "
Charles Van Every		Novi	" " "
Weber's Sand & Gravel		W½ 26 & E½ 27 4N 10E	" " "

OCEANA

Beckman Brothers		NE SW 24 14N 17W	Sand and gravel
Eichenburg Contractors		Unknown	" " "
Paul C. Miller		SW 3 13N 15W	" " "
Oceana Co. Road Comm.	NE NE 32 15N 18W	NE SW 26 14N 15W	" " "
	SW NW 4 13N 15W	SE SE 8 13N 18W	" " "
		SW NE 15N 16W	" " "
Town Construction Co.		Unknown	" " "

OGEMAW

Gil Brown Constructors, Inc.		NE SE 6 22N 2E	Sand and gravel
Bunting Sand & Gravel Prod., Inc.	2 22N 1E	NE NE 6 21N 2E	" " "
Fitzgerald & Powell Inc.		SW SW 26 24N 3E	" " "
R. G. Glancy		Rosevear pit	" " "
Ogemaw Co. Road Comm.	SW 5 22N 2E	NW NW 2 23N 2E	" " "
State of Michigan	SW SW 14 24N 4E		" " "
West Branch Concrete Products		NE SE 6 21N 2E	" " "
Worden, James		Unknown	" " "

ONTONAGON

Caspian Constr. Co.		Various	Sand and gravel
Fox Valley Construction Co.		Various	" " "
Geo. Hocking Constr. Co.	SW 21 50N 41W	30 52N 36W	Rhyolite, crushed
Ontonagon Co. Road Comm.		SE 7 49N 42W	Sand and gravel
White Pine Copper Co.:			
White Pine Mine		4, 5, 9 50N 42W	Copper & Silver

OSCEOLA

Cousineau Gravel, Inc.	NW NW 11 17N 9W	Osceola Pit, Evert Post pit	Sand and gravel
Hersey Sand and Gravel	NW SW 20 17N 9W	(HMS)	" " "
Pickett & Schreur, Inc.	Various		" " "

OSCODA

Oscoda Co. Road Comm.	SE SW 15 27N 1E	Sand and gravel	
State of Michigan	SW NW 32 25N 1E	SE SW 7 27N 4E	" " "
		NW NW 36 25N 4E	" " "

OTSEGO

Hoogerhyde Sand & Gravel Co.		Unknown	Sand and gravel
Mason Excavating Inc.		11 30N 3W	" " "
Otsego Co. Road Comm.	NW NW 3 31N 3W	NW NE 29 31N 3W	" " "
	15 29N 4W	17 29N 3W	" " "
State of Michigan	NE NW 19 29N 4W	NE SE 31 30N 1W	" " "
	NE SE 25 32N 1W		" " "

OTTAWA

Brewers City Coal Dock		Holland	Sand and gravel
J. V. Burkett Constr.		NE NW 15 5N 13W	" " "
		SE SW 16 8N 16W	" " "
Construction Aggregates Corp.	NW SE 7 7N 14W	SE SW 16 8N 15W	Clay
		SW NE 17 8N 16W	Sand and gravel
		(HMS)	" " "
DeWent Gravel Co.		SW SW 23 6N 13W	" " "
Grand Valley Gravel Co.	SE SE 29 7N 13W	NE NE 32 7N 13W	" " "
Huizenga Gravel		W $\frac{1}{2}$ NE 3 6N 13W	" " "
Muskegon Gravel & Ready-Mix		NW NE 5 9N 13W	" " "
Ottawa Co. Road Comm.	NW NE 16 7N 14W	SW SE 7 7N 14W	" " "
	NE NE 32 7N 13W	NW SW 2 6N 13W	" " "
	SW NE 15 5N 13W	NE NW 29 5N 14W	" " "
		E $\frac{1}{2}$ 2 6N 13W	" " "
Riverview Gravel Co.			" " "
Robinson Gravel Co.	7N 15W		" " "
Standard Sand Co.		E $\frac{1}{2}$ SW 2 6N 13W	Industrial Sand
West Shore Constr. Co.	SW SW 2 6N 13W	E $\frac{1}{2}$ SW 2 6N 13W	Sand and gravel

PRESQUE ISLE

Michigan Limestone Operation,		SE NE 23 35N 5E	Limestone, crushed
U. S. Steel		NW NW 5 34N 2E	Limestone, dimensional
Onaway Stone Co.		SW SE 18 35N 2E	Sand and gravel
Presque Isle Co. Rd. Comm.	NE NE 19 33N 5E	NW 2 33N 8E	Limestone, crushed
Presque Isle Corp.			

PRESQUE ISLE (con't.)

State of Michigan	NE SW 29 36N 2E	NW NE 28 36N 3E	Sand and gravel
Straits Aggregate & Equip. Corp.	S $\frac{1}{2}$ SW 13 34N 7E	NW NE 22 34N 7E	" " "
		NE NW 19 34N 4E	" " "

ROSCOMMON

Halliday Sand & Gravel, Inc.	SE SE 30 24N 3W	NW SW 3 23N 3W	Sand and gravel
Roscommon Co. Road Comm.	NW NE 25 24N 4W	NE NW 32 23N 4W	" " "
	SW NW 4 22N 4W	NW NW 14 22N 4W	" " "
Jess Stanley Gravel Co.	W $\frac{1}{2}$ NE 24 22N 4W	& Michelson pit	" " "
State of Michigan	NE SE 22 23N 2W	NW NW 32 23N 4W	" " "
Steel Brothers		3 34N 3W	" " "
Whites Sand & Gravel		Various	" " "

SAGINAW

Walter Hutfilz		Unknown	Sand and gravel
Martin-Marietta			
Great Lakes Div.		NW 1 11N 3E	Clay (for cement mfg.)
Michigan Sugar Co.		Carrollton	Lime (for sugar mfg.)
Saginaw Co. Road Comm.		Various	Sand and gravel
Sargent Sand Co.		17 10N 2E	Industrial Sand

ST. CLAIR

Diamond Crystal Salt Co.		31 5N 17E	Salt, evaporated
Molesworth Contracting	4 8N 14E	NE SE 8 7N 15E	Sand and gravel
	Dryden & Valdesuso	Pits	" " "
Morton Salt Co.		SE 29 6N 17E	Salt, evaporated
Peerless Cement Co.		Port Huron	Portland cement mfg.
		32 6N 16E	Clay (for cement mfg.)
Port Huron, City of		Unknown	Sand and gravel
Raymand Excavating, Inc.		Smock pit	" " "
St. Clair Co. Road Comm.		8 8N 14E	" " "
	8 7N 15E	29 8N 16E	" " "
Scheffler Bros.	Goodells Pit		" " "

ST. JOSEPH

Aggregate Processors, Inc.		NE 7 8S 11W	Sand and gravel
Cole Brothers Contractors	SE NE 16 5S 9W	NW NE 12 5S 9W	" " "
	SE 24 5S 11W	NE NW 26 6S 11W	" " "
	SW SW 20 7S 10W	SW NW 27 7S 10W	" " "
	NW NW 16 7S 9W	SW 27 7S 9W	" " "
		SE 6 8S 9W	" " "
DeBoer Materials		Unknown	" " "
Kerr Brothers Marl		13 6S 12W	Marl
Kerr's Peat Moss		13 6S 12W	Peat (moss)
Quality Peat		24 5S 12W	" " "
St. Joseph County Road Comm.		Various	Sand and gravel

Sanilac - Tuscola

Tuscola - Wayne

SANILAC

William Albrecht, Jr.		SW SE 31 12N 13E	Sand and gravel
Cook Block Co.		NE NE 28 10N 15E	" " "
Michigan Peat, Inc.	NW 11 11N 14E	Minden & Sandusky	Peat (reed-sedge)
Michigan Sugar Co.		Croswell	Lime (for sugar mfg.)
Mid-Michigan Materials, Inc.		SW SW 32 9N 16E	Sand and gravel
Molesworth Contracting		SW SW 32 9N 16E	" " "
Sanilac Co. Road Comm.		SW SW 31 12N 13E	" " "
	NE SE 18 13N 13E	NW NE 17 14N 12E	" " "
	NW NW 34 12N 12E	NW NE 18 14N 16E	" " "
	NW NE 1 12N 13E	SW SE 5 13N 14E	" " "
	SE SW 31 12N 13E	NE SE 24 13N 13E	" " "
	NW SE 28 11N 12E	SW SW 21 11N 14E	" " "
	SE SW 21 11N 14E	NE NE 3 10N 14E	" " "

SCHOOLCRAFT

Inland Lime & Stone Co.		2 41N 13W	Dolomite, crushed
Inwood Stone Products Co.		8 41N 17W	Dolomite, dimensional
Schoolcraft Co. Road Comm.		SE SW 7 41N 17W	Sand and gravel
		SE SW 14 42N 16W	Dolomite, crushed
		Various	Sand and gravel
State of Michigan		SE NW 15 41N 17W	" " "

SHIAWASSEE

Al-Par Peat Co.		18 9N 2E	Peat (reed-sedge)
Central Michigan Sand & Gravel Co.		SW NW 23 7N 1E	Sand and gravel
Fred Fitzgerald Gravel Co.	4 & 14 8N 3E	NE SW 22 8N 2E	" " "
Fuoss Gravel Co.	SE SW 4 6N 3E	SE SE 17 5N 4E	" " "
		SE NW 9 6N 3E	" " "
Grand River Gravel Co.	NW SE 22 6N 2E	NW 25 6N 2E	" " "
Lennon Sand & Gravel		NE 27 7N 4E	" " "
Michigan Vitrified Tile Co.		SE 22 7N 3E	Shale (for tile mfg.)
Pickett & Schreur, Inc.		Various	Sand and gravel
Polhamus Gravel Co.		SW SE 16 7N 1E	" " "
Scenic Lakes, Inc.		4, 10 & 16 5N 1E	Peat (reed-sedge)
Shiawassee Co. Road Comm.		SE SE 20 7N 2E	Sand and gravel
Tod Gravel Co.		Unknown	" " "
Ronald Weaver Gravel Co.		NE SW 16 5N 2E	" " "

TUSCOLA

Andersen Sand & Gravel	NW SW 19 11N 9E	NE NE 20 11N 9E	Sand and gravel
Berthal Sand & Gravel		SW SE 31 12N 9E	" " "
Great Lakes Foundry Sand Co.		SW SW 27 12N 8E	Industrial Sand
Michigan Sugar Co.		Caro	Lime (for sugar mfg.)

TUSCOLA (con't.)

Millington Gravel		Unknown	Sand and gravel
H. O. Peterhans S. & G.		13 12N 8E	" " "
Powell Sand & Gravel		23 13N 7E	" " "
Saginaw Aggregates		Unknown	" " "
Sargent Sand Co.	5 10N 9E	SE 13 11N 8E	Industrial Sand
		NW 1 11N 8E	" " "
Tuckey Block Co.		W $\frac{1}{2}$ NW 33 14N 11E	Sand and gravel
Tuscola Co. Road Comm.	NW NW 28	SW NE 33 10N 9E	" " "
	NW SE 22 11N 7E	SW SW 19	" " "
	NE NW 29	NE NE 2 11N 9E	" " "
	E $\frac{1}{2}$ SW 5 11N 10E	SW NE 3	" " "
	SE SE 34	SW NW 13 12N 8E	" " "
	NE NW 7 12N 10E	N $\frac{1}{2}$ SW 18 12N 10E	" " "
	SE SE 10 13N 9E	NW NW 16 13N 10E	" " "
	SE SW 4 13N 11E	33 14N 10E	" " "
	NE NW 24 14N 11E	SE SW 27 10N 8E	" " "

VAN BUREN

John Budzen Cement Products		13 3S 14E	Sand and gravel
J. V. Burkett Constr.		SE NE 24 3S 15W	" " "
Klett Constr. Co.		SE NW 24 3S 14W	" " "
Van Buren Co. Road Comm.		Various	" " "
Yerington Construction		NE SE 24 3S 1W	" " "

WASHTENAW

Bennet Excavating and Gravel Co.		Hamburg	Sand and gravel
William Brink		8 4S 6E	" " "
O. E. Gooding & Co.	SW NW 10 2S 5E	SW 3 2S 5E	" " "
	(HMS)		
	SE SE 9 2S 7E	SW NE 19 2S 7E	" " "
	19 3S 6E	14 3S 6E	" " "
	12 3S 3E	27 1S 3E	" " "
Kruse Gravel Co.		32 2S 7E	" " "
Liberty Sand Co.		36 2S 6E	" " "
Mich. State Hwy. Dept.		Contractor	" " "
Rock Creek Products		12 3S 3E	" " "
Thompson-McCully Sand & Gravel		NE SE 26 3S 7E	" " "
Washtenaw Co. Road Comm.	SE NE 21 2S 5E	NW SW 3 2S 5E	" " "
	SW NE 14 1S 7E	NE SE 2 4S 3E	" " "
	NW 23 3S 4E	SE NW 22 1S 3E	" " "
		12 2S 7E	" " "
Washtenaw Sand & Gravel		1 2S 6E	" " "
Whitaker and Gooding		E $\frac{1}{2}$ SW 3 2S 5E	" " "

WAYNE

Amcord Cement Co.		Ext. Sec. 28 2S 11E	Cement
Amcord Cement Co.		NW Ext. Sec. 36 2S 10E	Clay
BASF Wyandotte		Wyandotte	Salt, lime

WAYNE (con't.)

Clippert Brick & Tile Co.	NW 21 2S 11E	Clay, brick
Detroit Lime Co.	River Rouge	Lime, (limekiln only)
Hayes Washed Sand & Gravel Co., Inc.	SE NE 8 1S 8E	Sand and gravel
International Salt Co., Inc.	(Ext.) SW 32 2S 11E	Rock Salt (Halite)
Levy Co.	Detroit	Cement
Lightweight Aggregate Corp.	NE 27 1S 9E	Clay, light weight aggregate
Marathon Oil Co.	Detroit	Sulfur
Marblehead Lime Co.	River Rouge	Lime (limekiln only)
Mich. Foundation Quarry Co.	NE NW 7 4S 11E	Limestone, crushed
Moore Bros. Sand & Gravel	2 3S 9E	Sand and gravel
Ottawa Silica Co.	SW NE 15 5S 10E	Sandstone (silica sand)
Pennwalt Corp.	Wyandotte	Salt (brine for chlorine mfg.)
Thomson Sand & Gravel	NW NE 8 1S 8E	Sand and gravel
Wayne Sand & Gravel Co.	NW SE 12 3S 8E	" " "
Wyandotte Cement Inc.	Wyandotte	Cement

WEXFORD

Leo Dunbar	SW NE 15 21N 9W	Sand and gravel
State of Michigan	NW SE 20 22N 11W	" " "
Wexford Co. Road Comm.	Contractor	" " "
Wexford Gravel Co.	NW NE 10 21N 9W	" " "

UNDISTRIBUTED

Rieth Riley Construction Co.	Various counties	Sand and gravel
U. S. Department of Agriculture	Various counties	" " "

SELECTED MINERALS AND GEOLOGY

GEOLOGIC UNIT MINED:

NAMES OF OPERATIONS:

Iron

Middle Huronian:	
Negaunee Iron Formation.....	Empire, Mather, Republic, & Tilden mines
Vulcan Formation.....	Groveland Mine

Copper & Silver

Upper Keweenaw:	
Nonesuch Shale.....	White Pine Mine

Gypsum

Upper Mississippian:	
Michigan Formation.....	Georgia-Pacific Corp., Grand Rapids Gypsum Co., National Gypsum Co., Michigan Gypsum Co., United States Gypsum Co.

Natural Salines

Middle Devonian:	
Dundee Limestone.....	Michigan Chemical Co., @ St. Louis
Detroit River.....	Dow Chemical Co. @ Midland & Ludington, Michigan Chemical @ Manistee & St. Louis, & Wilkinson Chemical Co.

Salt

Middle Devonian	
Detroit River.....	Dow Chemical Co. @ Midland
Late Silurian:	
Salina	
F-Salt.....	International Salt Co.
B-Salt.....	Pennwalt Chemical Corp.; BASF Wyandotte Corp.
A & B-Salts.....	Diamond Crystal Salt Co., Hooker Chemical Corp., Hardy Salt Co., Morton Salt Co.

Limestone

Late Mississippian:	
Bayport Limestone.....	Arenac Co. Road Comm., Bay Co. Road Comm., C & D Stone, Cheney Lms. Co., Iosco Co. Road Comm., Jeffrey Lms. Co., & Wallace Stone Co., Van Deusen Stone Co.



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