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MICHIGAN MINERAL PRODUCERS

1972



DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY

ANNUAL DIRECTORY 6
1973

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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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MICHIGAN MINERAL PRODUCERS

1972

GEOLOGICAL SURVEY DIVISION

ANNUAL DIRECTORY 6



B Y

R. Thomas Segall

PREFACE

Michigan Mineral Producers is a record of names and addresses of all mineral producers in Michigan including the locations of their mineral operations during 1972 and is based on United States Bureau of Mines final tabulation for 1971. It is prepared as a directory supplement to "Mineral Industry of Michigan", published annually with the cooperation of 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 some sections. Mineral producers are also listed alphabetically by county including location by section, township, and range.

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

Corrections, additions, or suggestions for improving this directory are welcome, and actively solicited in order to make it as effective in accomplishing its purpose as possible.

Lansing,
January, 1973

R. Thomas Segall
Geologist
Mining Economics Section

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Metallic Mining Operations

Iron Mines and Pits

Range-Dist. & Map Symbol	Mine	Company	Mine Location
MARQUETTE			
(a)	Empire (open pit-pellets)	Cleveland-Cliffs Iron Co. 1460 Union Commerce Bldg. Cleveland, Ohio 44114	1 Mi. NW of Palmer, in Sec. 17, T47N, R26W, MARQUETTE COUNTY
(b)	Mather	Cleveland-Cliffs Iron Co. (Operator for the Negaunee Mine Company) 1460 Union Commerce Bldg. Cleveland, Ohio 44114	"B" Shaft, west side of Negaunee, in Sec. 1, T47N, R27W, MARQUETTE COUNTY
(c)	Republic (open pit-pellets)	Cleveland-Cliffs Iron Co. (Operator for the Negaunee Mine Company) 1460 Union Commerce Bldg. Cleveland, Ohio 44114	1 Mi. S of Republic in Sec. 7, T46N, R29W MARQUETTE COUNTY
(d)	Tilden (open pit siliceous ore)	Cleveland-Cliffs Iron Co. 1460 Union Commerce Bldg. Cleveland, Ohio 44114	3 Mi. S of Ishpeming in Sec. 26, T47N, R27W, MARQUETTE COUNTY
IRON RIVER-CRYSTAL FALLS			
(e)	Sherwood	Inland Steel Co. 30 W. Monroe St. Chicago, Illinois 60603	½ Mi. N of Iron River in Sec. 23, T43N, R35W, IRON COUNTY
FELCH			
(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, DICKINSON COUNTY

AMASA-OVAL, EAST MENOMINEE, GOGEBIC, GWINN - (Not Active)

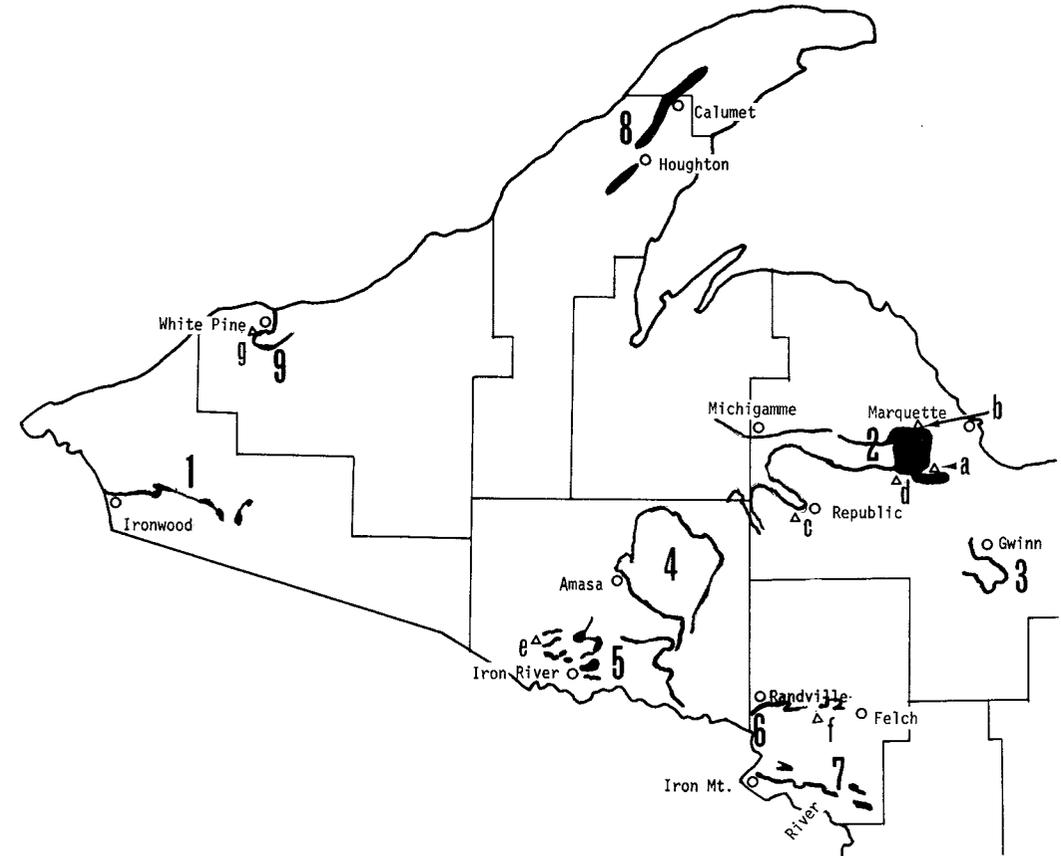
Copper Mines

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. Mine ONTONAGON COUNTY
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NATIVE COPPER ORE (Not Active)

- ♣ IRON AND COPPER OUTCROPS
- ▲ MINE LOCATION
- CITY OR VILLAGE



IRON MINES

1. GOGEBIC RANGE (not active)
2. MARQUETTE RANGE
 - a. Empire open pit
 - b. Mather Mine
 - c. Republic open pit
 - d. Tilden open pit
3. GWINN DISTRICT (not active)
4. AMASA-OVAL DISTRICT (not active)

5. IRON RIVER-CRYSTAL FALLS DISTRICT
 - e. Sherwood Mine

6. FELCH DISTRICT
 - f. Groveland open pit
7. IRON MOUNTAIN RANGE (not active)

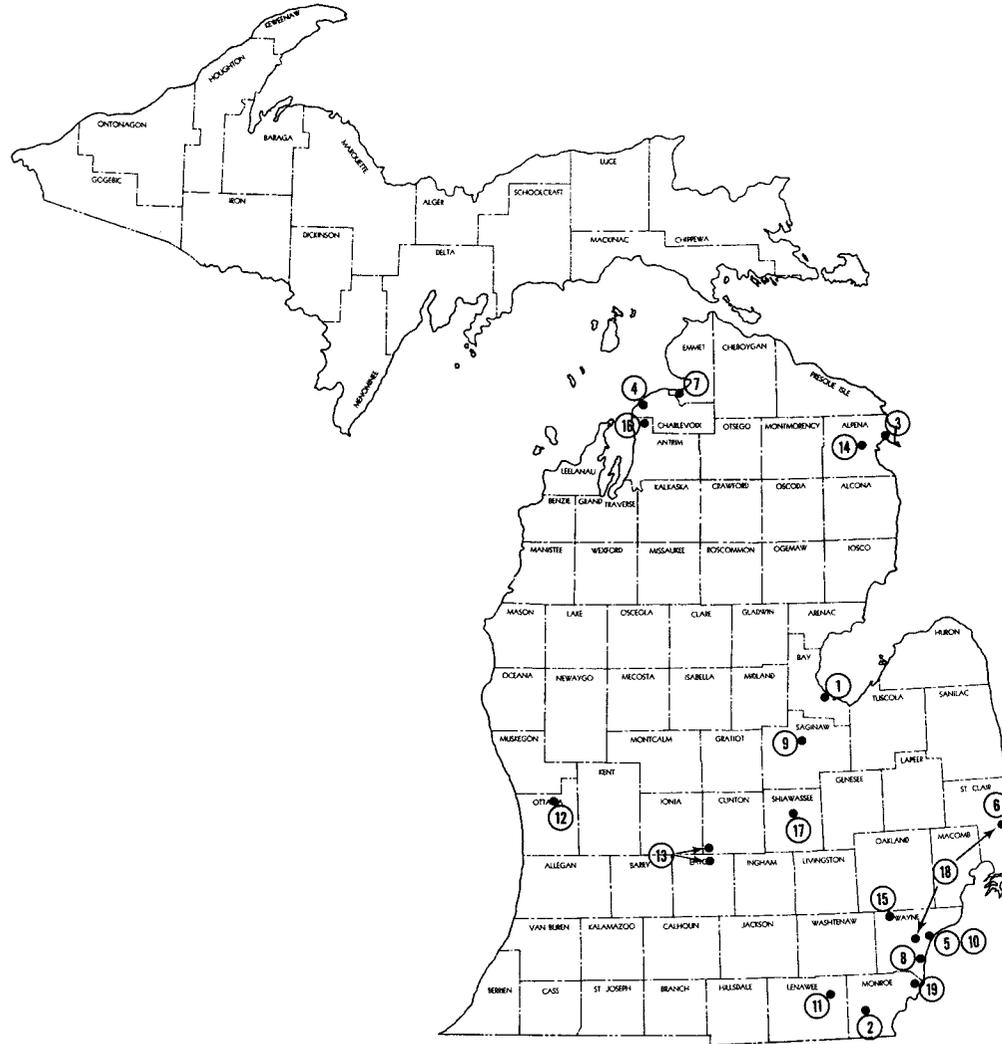
COPPER MINES AND RECLAMATIONS

8. NATIVE COPPER ORE (not active)
9. COPPER SULFIDE ORE
 - g. White Pine Mine

LOCATIONS OF CLAY AND SHALE--CEMENT OPERATIONS

Industrial Mineral Operations

Cement



Name of Operation	Map No. (page 3)	Plant Location
Aetna Portland Cement Co. Div. Martin-Marietta Corp. P. O. Box No. 8 Bay City, Michigan 48706	(1)	3 Mi. NE of Bay City at Essexville, NE $\frac{1}{4}$ Sec. 14, T14N, R5E; raw material ob- tained from Rogers City area. <u>BAY COUNTY</u>
Dundee Cement Co. P. O. Box 317 Dundee, Michigan 48131	(2)	2 Mi. N of Dundee, in Sec. 7, T6S, R7E, plant and quarry. <u>MONROE COUNTY</u>
Huron Portland Cement Co. Div. Nat'l. Gypsum Co. 17515 W. Nine Mile Rd. Honeywell Center-12th Floor Southfield, Michigan 48075	(3)	1.5 Mi. NE of Alpena, in Sec. 13 & 14, T31N, R9E, plant and quarry. <u>ALPENA COUNTY</u>
Medusa Portland Cement Co. Box 5668 Cleveland, Ohio 44101	(4)	2 Mi. W of Charlevoix, center of Sec. 28, T34N, R8W, <u>CHARLEVOIX COUNTY</u>
Peerless Cement Co. Div. of American Cement Corp. 900 Detroit Trade Center Detroit, Michigan 48226	(5)	2 plants located at Detroit: Brennen Ave. plant on main channel of River Rouge, and Jefferson Ave. plant. <u>WAYNE COUNTY</u>
Peerless Cement Co. Div. of American Cement Corp. 900 Detroit Trade Center Detroit, Michigan 48226	(6)	Port Huron plant. Obtains limestone from Rogers City area and supplies Detroit plants. <u>ST. CLAIR COUNTY</u>
Penn-Dixie Cement Corp. P. O. Box 152 Nazareth, Pennsylvania 18064	(7)	3.5 Mi. W of Petoskey, (plant and quarry) in Sec. 3, T34N, R6W. <u>EMMET COUNTY</u>
BASF Wyandotte Corp. 1609 Biddle Ave. Wyandotte, Michigan 48192	(8)	Wyandotte, Mich. (plant) Raw material from Rogers City area. <u>WAYNE COUNTY</u>

----- FACTS ABOUT THE PORTLAND CEMENT INDUSTRY*-----

RAW MATERIALS USED:	Limestone	7,168,000 tons
	Clay & Shale	1,946,000 tons
	Gypsum	288,000 tons
	Fly ash, Sand, Iron ore, Slag, Bauxite	99,000 tons
FUEL USED:	Coal	1,255,000 tons
	Natural Gas	-W-
	Fuel Oil	-W-
ELECTRICAL ENERGY PURCHASED & GENERATED:	Kilowatt Hours	687,980,000

*1971 Tabulations

-W- withheld information

CEMENT

1. Aetna Portland
2. Dundee
3. Huron Portland
4. Medusa Portland
5. Peerless-Detroit (2 plants)
6. Peerless-Port Huron
7. Penn-Dixie
8. BASF Wyandotte Corp.

CLAY AND SHALE

9. Aetna Portland Cement
10. Clippert Brick & Tile
11. Comfort Brick & Tile
12. Construction Aggregates Corp.
13. Grand Ledge Clay Prod.
14. Huron Cement Co.
15. Lightweight Aggregates Corp.
16. Medusa Portland Cement
17. Michigan Vitrified Tile
18. Peerless Cement Co.
19. F. W. Ritter & Sons

Clay and Shale

Name of Operation	Map No. (page 3)	Product	Location
Aetna Portland Cement Co. Div. of Martin Marietta Corp. P. O. Box 8 Bay City, Michigan 48706	(9)	Cement	Clay pit, NW¼ Sec. 1, T11N, R3E <u>SAGINAW COUNTY</u>
Clippert Brick & Tile Co. Wyoming & Southern Streets Dearborn, Michigan 48120	(10)	Brick	Clay pit, near SE corner Wyoming and Michigan Ave. (US 112) Dearborn <u>WAYNE COUNTY</u>
Comfort Brick & Tile Co. Rogers Highway Tecumseh, Michigan 49286	(11)	Drain Tile	Clay pit, 1 Mi. SE of Tecumseh in Sec. 2, T6S, R4E <u>LENAWEE COUNTY</u>
Construction Aggregates Corp. 120 S. LaSalle Street Chicago, Illinois 60603	(12)	Light-weight aggregate	Clay pit, 4 Mi. W of Eastmanville in Sec. 7, T8N, R14W, <u>OTTAWA COUNTY</u>
Dundee Cement Co. P. O. Box 317 Dundee, Michigan 48131	(2)	Cement	Sec. 7, T6S, R7E, (clay overburden over limestone) <u>MONROE COUNTY</u>
Grand Ledge Clay Prod. Co. West Jefferson Street Grand Ledge, Michigan 48837	(13)	Drain tile, vitrified sewer pipe, flux lining, wall coping	Shale pits at SE¼ Sec. 3, T4N, R4W, <u>EATON COUNTY</u> and SE¼ Sec. 34, T5N, R4W, <u>CLINTON COUNTY</u>
Huron Cement Company Div. of Nat'l. Gypsum Co. 17515 West Nine Mile Rd. Honeywell Center-12th Floor Southfield, Michigan 48075	(14)	Cement	Paxton Shale Quarry, 8 Mi. W of Alpena, NE¼ Sec. 30, T31N, R7E, <u>ALPENA COUNTY</u>
Lightweight Aggregate Corp. 12720 Farmington Rd. Livonia, Michigan 48150	(15)	Light-weight aggregate	Clay pit, 1 Mi. S of Livonia, Sec. 27, T1S, R9E <u>WAYNE COUNTY</u>
Medusa Portland Cement Co. Box 5668 Cleveland, Ohio 44101	(16)	Cement	Shale pit, SW¼ Sec. 24, T32N, R8W <u>ANTRIM COUNTY</u>
Michigan Vitrified Tile Co. P. O. Box 450 Findlay, Ohio 45840	(17)	Brick, drain tile	Shale pit, ½ Mi. E of Corunna, Sec. 22, T7N, R3E <u>SHIAWASSEE COUNTY</u>
Peerless Cement Co. Div. of American Cement Corp. 900 Detroit Trade Center Detroit, Michigan 48226	(18)	Cement	Smiths Creek Clay Pit NW¼ Sec. 32, T6N, R16E <u>ST. CLAIR COUNTY</u> Ford Motor Co. Clay Pit P.C. 31 & 36, T2S, R10E, <u>WAYNE COUNTY</u>
Penn-Dixie Cement Corp. P.O. Box 152 Nazareth, Pennsylvania 18064	(7)	Cement	Shale Pit - SE¼, Sec. 23, T32N, R8W <u>ANTRIM 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, NE¼ SW¼, Sec. 16, T5S, R10E, <u>MONROE COUNTY</u>

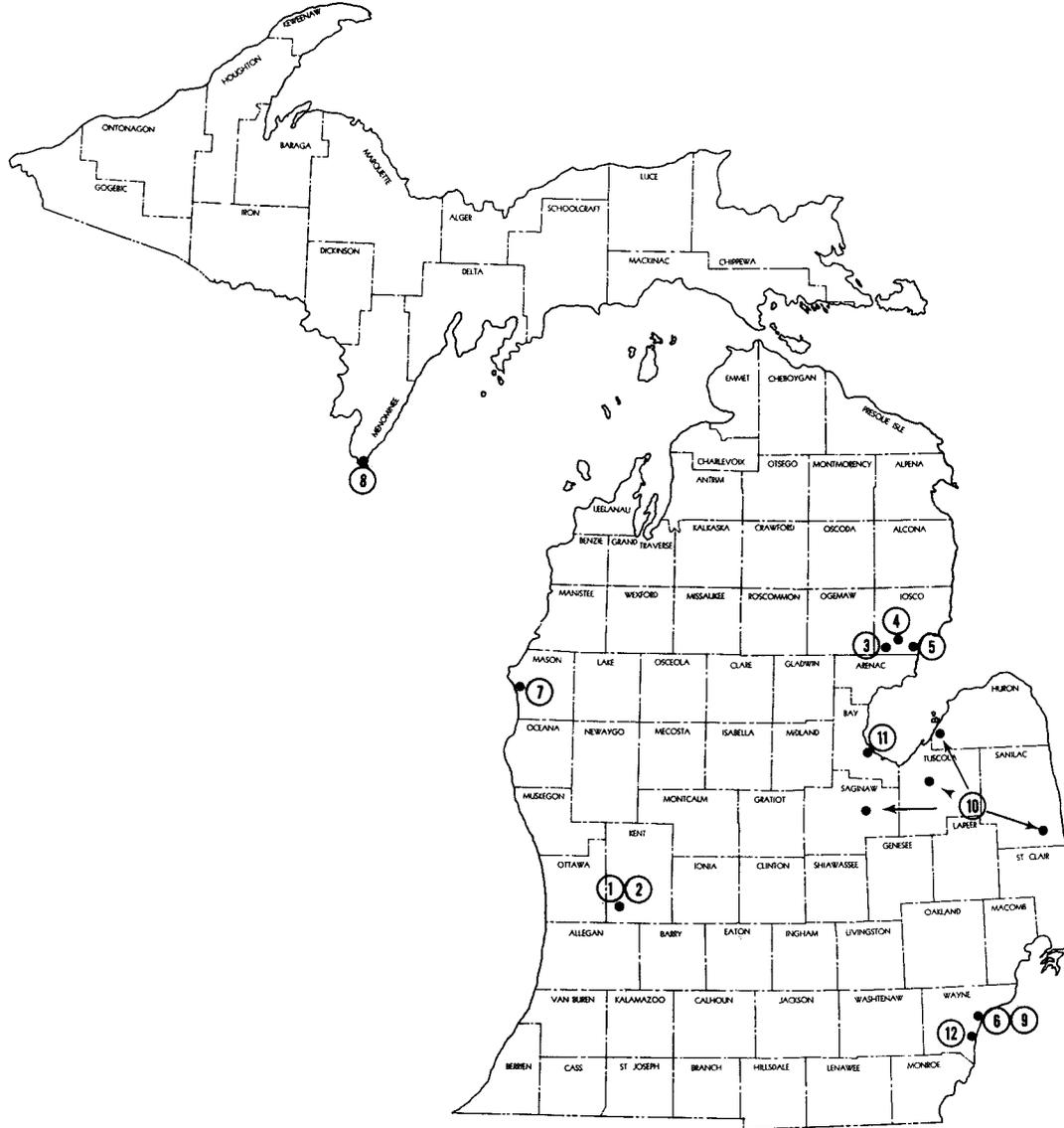
Gypsum

Name of Operation	Map No. (page 7)	Mine or Quarry Location	Mill Location
Georgia-Pacific Corp. 900 S. W. Fifth Ave. Portland, Oregon 97204	(1)	SE Grand Rapids in NW¼ Sec. 24, T6N, R11W <u>KENT COUNTY</u>	SW Grand Rapids 2228 Butterworth Rd. SW Grand Rapids, Mich. 49501
Grand Rapids Gypsum Co. P. O. Box 1674 Grand Rapids, Michigan 49501	(2)	SW side Grand Rapids in Sec. 34, T7N, 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, R5E, open pit and plant. <u>IOSCO COUNTY</u>	E of pit, in SW¼ Sec. 30, T21N, R6E
National Gypsum Co. 325 Delaware Co. 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, T31N, R6E, <u>IOSCO COUNTY</u>
United State 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>

Lime

Name of Operation	Map No. (page 7)	Plant Location
Detroit Lime Co. (subsidiary, Ed. C. Levy Co.) 8800 Dix Ave. Detroit, Michigan 48209	(6)	River Rouge, Limekiln only <u>WAYNE COUNTY</u>
The Dow Chemical Co. Ludington Division Midland, Michigan 48640	(7)	Ludington, Limekiln only <u>MASON COUNTY</u>
Limestone Products Division C. Reiss Coal Co. Menominee, Michigan 49858	(8)	320 First Street, Menominee. Limekiln only <u>MENOMINEE COUNTY</u>
Marblehead Lime Co. (General Dynamics Corp.) 25 Marion St. 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 Ave. Bay City, Michigan 48706	(11)	Bay City, Limekiln only <u>BAY COUNTY</u>
BASF Wyandotte Corp. 1609 Biddle Ave. Wyandotte, Michigan 48192	(12)	Wyandotte, Limekiln only <u>WAYNE COUNTY</u>

LOCATIONS OF GYPSUM AND LIME OPERATIONS



GYPSUM

1. Georgia Pacific Corp.
2. Grand Rapids Gypsum Co.
3. Michigan Gypsum Co.
4. National Gypsum Co.
5. U. S. Gypsum Co.

LIME

6. Detroit Lime Co.
7. Dow Chemical-Ludington
8. Limestone Products Div.
9. Marblehead Lime Co.
10. Michigan Sugar Co.
11. Monitor Sugar Div.
12. BASF Wyandotte Corp.

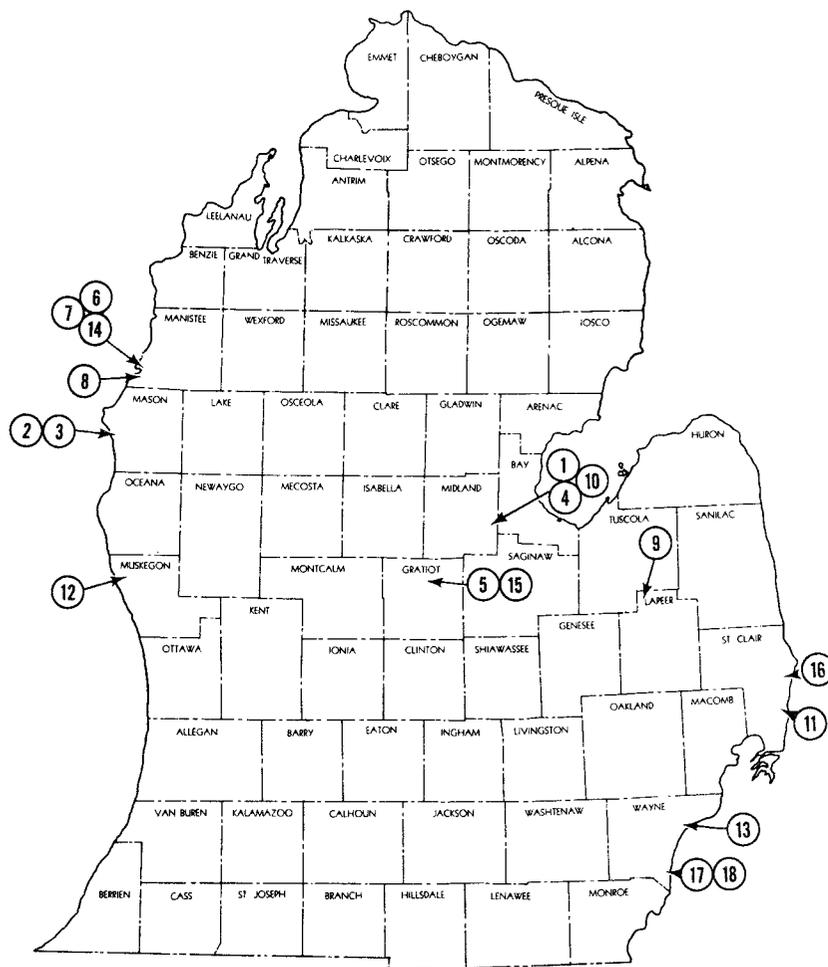
Marl

Name and Address of Producer	Pit and County
Gerald Arnsman, R#1, Hopkins 49328	Belden, Hervig, & Ryan pits, ALLEGAN CO.
Carl Avery, R#2, Box 628, Battle Creek 49017	Arah Pullman pit, CALHOUN CO.
Barnes Bros., Horton 49246	John Pung & Steve Demack pits, JACKSON CO.
Barnett Bros., S. Front St., Dowagiac 49407	File & Riggs pits, CASS CO.
Case Bros., R#2, Box 136, Union City 49094	Sec. 28, T4S, R7W, CALHOUN CO.
Crosby Marl Co., B. W. Crosby, Three Oaks 40128	Sec. 8, T8S, R20W, BERRIEN CO.
William Carrier, R#1, Caledonia 49316	Duncan L., Sec. 6, T4N, R10W, BARRY CO.
Coy Drake, R#1, Three Rivers 49093	Drake Pit, Sec. 12, T5S, R12W, ST. JOSEPH CO.
Samuel Gree, Marcellus 49067	Sec. 31, T3S, R12W, KALAMAZOO CO.
E. R. Hamilton, R#3, Nashville 49073	Sec. 25, T2N, R7W, BARRY CO.
Hayward Dry Marl, R#2, Vicksburg 49097	Sec. 8, T4S, R10W, KALAMAZOO CO.
John Hess, R#1, Hanover 49241	Sec. 14, T5S, R3W, HILLSDALE CO.
Martin's Marl, R#2, Box 46, Three Oaks 49128	Sec. 21, T8S, R20W, BERRIEN CO.
Emil Pavlak, R#2, Hopkins 49328	Pavlak pit, Sec. 12, T2N, R12W, ALLEGAN CO.
Piphers Marl Service, Jones 49061	Long L. pit, Sec. 9, T8S, R13W, CASS CO.
Poehlman & Son, R#2, Cassopolis 49031	Sec. 12 & 13, T7S, R16W, CASS CO.
Roberts Bros. Marl, c/o Arthur Roberts, Sr., R#2, Three Rivers 49093	Kerr pit, T6S, R12W, ST. JOSEPH CO.
Fred Rumz, R#2, Vicksburg 49097	Sec. 30, T4S, R10W, KALAMAZOO CO.
Harlan Spoor, R#1, Burlington 49029	Sec. 23, T4S, R7W, CALHOUN CO.
Taylor & Son, Fremont, Indiana 46737	Sec. 4, T8S, R6W; Sec. 16, T8S, R5W BRANCH CO.

Natural Salines

Name of Operation	Map No. (page 9)	Products	Plant Location
The Dow Chemical Co. Midland, Michigan 48640	(1)	Bromine, bromine compounds, magnesium compounds, calcium chloride, iodine	South side of Midland T41N, R2E, MIDLAND COUNTY
The Dow Chemical Co. 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
Kaiser Aluminum & Chemical 900 17th St., NW Washington, D. C. 20006	(4)	Magnesium compounds	Midland, T14N, R2E, MIDLAND COUNTY
Michigan Chemical Corp. 2 North Riverside Plaza Chicago, Illinois 60606	(5)	Bromine, magnesium compounds, calcium-magnesium chloride	W side of St. Louis in Sec. 24, T12N, R3W. GRATIOT COUNTY
Michigan Chemical Corp. Northwest Industries, Inc. 351 Ohio Street Chicago, Illinois 60611	(6)	Bromine	East Lake, 1 Mi. E of Manistee in NW $\frac{1}{4}$, Sec. 7, T21N, R16W, MANISTEE COUNTY

LOCATIONS OF CHEMICAL AND SALT PLANTS



NATURAL SALINES

1. Dow Chemical - Midland
2. Dow Chemical - Ludington
3. Harbison-Walker Refractories Co.
4. Kaiser Aluminum & Chemical Co.
5. Mich. Chemical Corp. - St. Louis
6. Mich. Chemical Corp. - Manistee
7. Morton Chemical Co. - Manistee
8. Standard Lime & Refractories
9. Wilkinson Chemical Co.

SALT

10. American Salt Corp.
11. Diamond Crystal Salt Co.
1. Dow Chemical Corp.
12. Hooker Chemical Corp.
13. International Salt Co., Inc.
14. Manistee Salt Works
15. Michigan Salt Co.
7. Morton Salt Co. - Manistee
16. Morton Salt Co. - Marysville
17. Pennwalt Chemicals Corp.
18. BASF Chemical Corp.

Name of Operation	Map No. (page 9)	Products	Plant Location
Morton Chemical Co. Div. of Morton Int'l. Inc. 110 N. Wacker Dr. Chicago, Illinois 60606	(7)	Bromine, magnesium compounds, calcium chloride	At Manistee Sec. 12, T21N, R17W. <u>MANISTEE COUNTY</u>
Standard Lime & Refrac. 2000 First Nat'l. Bank Bldg. Baltimore, Maryland 21203	(8)	Magnesium compounds	1 Mi. NW of Stronach, SE½ Sec. 18, T21N, R16W <u>MANISTEE COUNTY</u>
Wilkinson Chemical Co. Mayville, Michigan 48744	(9)	Calcium-magnesium chloride	S of Mayville Sec. 21, T10N, R10E. <u>LAPEER COUNTY</u>

Peat

Name & Address of Producer	Kind of Peat	Nearest Town	Location
Al-Par Peat Ovid, Michigan	reed-sedge bulk & packaged	Ovid	Sec. 18, T9N, R2E <u>SHIAWASSEE CO.</u>
Anderson Peat Co. 2562 Granham Rd. Imlay City, Michigan 48444	reed-sedge bulk & packaged	Imlay City	Sec. 23, T7N, R12E <u>LAPEER COUNTY</u>
Appleman Farms 742 Pickford Rd. Temperence, Michigan 48140	reed-sedge bulk	Ida	<u>MONROE COUNTY</u>
Emerson Chaney 2215 Maquire NE Grand Rapids, Michigan	moss, bulk	Grand Rapids	<u>KENT COUNTY</u>
Dan's Peat Farm 40500 12 Mile Rd. Novi, Michigan 48050	moss, bulk	Novi	<u>OAKLAND COUNTY</u>
Charles E. Douglas Wayland, Michigan 49438	reed-sedge bulk	Wayland	Sec. 26, T4N, R11W <u>ALLEGAN COUNTY</u>
Fletcher and Richard 54001 Grand River Road New Hudson, Michigan 48165	humus, bulk	New Hudson	<u>OAKLAND 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>
Hilu Peat Company 3040 Clinton Trail Charlotte, Michigan 48813	humus, bulk	Charlotte	Sec. 21, T2N, R4E <u>EATON COUNTY</u>
J. M. Huber Corp. Imlay City, Michigan 48444	moss, reed-sedge bulk & packaged	Sandusky	<u>SANILAC COUNTY</u>
Katerberg Landscape Service 3610 Michigan Rd., NE Grand Rapids, Michigan	humus, bulk	Grand Rapids	<u>KENT COUNTY</u>

PEAT (CONT'D.)

Name & Address of Producer	Kind of Peat	Nearest Town	Location
Kerr's Peat Moss R#1, Three Rivers, Mich	moss, bulk	Three Rivers	Sec. 21, T7S, R6E ST. JOSEPH COUNTY
Norman E. Link R#1, Petersburg, Mich.	humus, bulk	Petersburg	MONROE COUNTY
Michigan Peat, Inc. 1 Decker Square Suite 325 Bala-Cynwyd, PA. 19004	reed-sedge bulk & packaged	Capac	ST. CLAIR COUNTY
Michigan Peat, Inc. 1 Decker Square Suite 325 Bala-Cynwyd, PA. 19004	reed-sedge packaged	Minden City & Sandusky	SANILAC COUNTY
Quality Peat R#2 Three Rivers, Mich. 49093	moss, bulk & packaged	Three Rivers	Sec. 24, T5S, R12W ST. JOSEPH COUNTY
Scenic Lakes, Inc. P. O. Box 926 East Lansing, Mich. 48823	reed-sedge, packaged	Laingsburg	Sec. 4, 10, 16, T5N, R1E
Souilliere Peat & Sod Co. 23650 23 Mile Rd. Mt. Clemens, Mich. 48043	reed-sedge, bulk & packaged	Imlay City	Sec. 25, T7N, R12E LAPEER COUNTY
Twin Lakes Nursery 3544 Michigan Road, NE Grand Rapids, Mich. 49506	moss, reed-sedge bulk & packaged	Grand Rapids	Sec. 26, T7N, R11W KENT COUNTY
Wicker's Inc. 6498 Bishop Road Lansing, Michigan 48710	moss, bulk	Lansing	T3N, R2W INGHAM COUNTY

Salt

Company and Address	Map No. (page 9)	Product	Location
American Salt Corp. 3142 Broadway Kansas City, Missouri 64111	(1)	Evaporated salt	At Midland (raw material from Dow Chemical [St. Clair Co.]) MIDLAND COUNTY
Diamond Crystal Salt Co. 916 S. Riverside St. Clair, Michigan 48079	(2)	Evaporated salt	At St. Clair, Sec. 31, T5N, R17E ST. CLAIR COUNTY
The Dow Chemical Co. Midland, Michigan 48640	(3)	Salt brine (chlorine natural salines)	At Midland MIDLAND COUNTY
Hooker Chemical Corp. P. O. Box 295 Montague, Michigan 49437	(4)	Salt brine (chlorine caustic soda, hydrogen)	At Montague NE 1/4 Sec. 31, T12N, R17W MUSKEGON COUNTY

SALT (CONT'D.)

Company and Address	Map No. (page 9)	Product	Location
International Salt Co., Inc. Clarks Summit, Pa. 18411 Detroit Mine: 12841 Saunders St. Detroit, Mich. 48217	(5)	Rock Salt	At Detroit SE 1/4 Sec. 32, T2S, R11E WAYNE COUNTY
Hardy Salt Co. P. O. Drawer 449 St. Louis, Mo. 63166	(6)	Evaporated salt	At Manistee MANISTEE COUNTY
Northwest Industries, Inc. Michigan Chemical Corp. 351 Ohio Street Chicago, Illinois 60611	(7)	Evaporated salt	At St. Louis GRATIOT COUNTY
Morton Salt Co. Div. Morton-Norwich Products, Inc. 110 N. Wacker Drive Chicago, Illinois 60606	(8)	Evaporated salt	At Manistee E 1/2 Sec. 12, T21N, R17W MANISTEE COUNTY
Morton Salt Co. Div. Morton-Norwich Products, Inc. 110 N. Wacker Drive Chicago, Illinois 60606	(9)	Evaporated salt	Marysville, Mich. SE 1/4, Sec. 29, T6N, R17E MANISTEE COUNTY
Pennwalt Chemical Corp. 3 Penn Center Philadelphia, Pa. 19102	(10)	Salt brine (chlorine, caustic soda, hydrogen)	At Wyandotte WAYNE COUNTY
BASF Wyandotte Corp. 1609 Biddle Ave. Wyandotte, Michigan 48192	(11)	Salt brine (chlorine, soda ash)	At Wyandotte WAYNE COUNTY

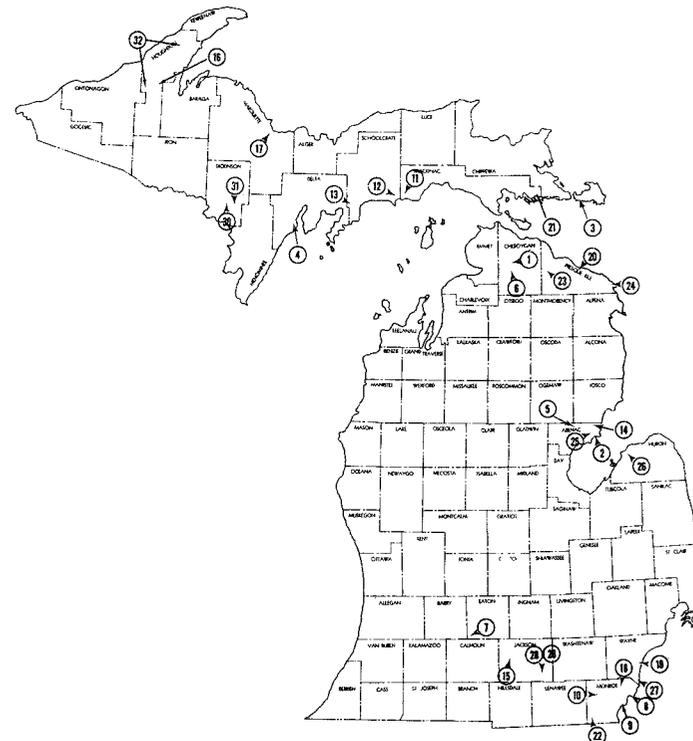
Stone

LIMESTONE* AND DOLOMITE

Name of Operation	Map No. (page 14)	Type of Stone	Quarry Location
Afton Stone and Lime Co. Afton, Michigan 49705	(1)	Limestone, crushed	N of Afton, Sec. 25, T35N, R2W CHEBOYGAN COUNTY
Arenac Co. Rd. Comm. 116 Bridge St. Omer, Michigan 48749	(2)	Limestone, crushed	NE of Au Gres Sec. 5, T19N, R7E, ARENAC COUNTY
Bethlehem Mines Corp. 701 East 3rd Street Bethlehem, Pa. 18016	(3)	Dolomite, crushed	W end Drummond Island, Sec. 3 & 10, T41N, R5E CHIPPEWA COUNTY
Bichler Gravel Co. Box 263 Escanaba, Michigan 49829	(4)	Limestone, crushed	Sec. 1, T39N, R23W DELTA COUNTY

Name of Operation	Map No. (page 14)	Type of Stone	Quarry Location
Bay Co. Rd. Comm. 812 N. Jefferson St. Bay City, Michigan 48706	(5)	Limestone, crushed	Near Omer Sec. 34, T20N, R5E <u>ARENAC COUNTY</u>
Charlevoix Lime & Stone Co. Vanderbilt, Michigan 49795	(6)	Limestone, crushed	North of Afton Sec. 25, T34N, R2W <u>CHEBOYGAN COUNTY</u>
Cheney Limestone Co. P. O. Box 125 Bellevue, Michigan 49021	(7)	Limestone, crushed and dimensional	West of Bellevue, Sec. 29, T1N, R6W <u>EATON COUNTY</u>
Detroit Edison Co. Civil Engineering Sect. 2000 Second Avenue Detroit, Michigan 48226	(8)	Dolomite, crushed	Monroe, Mich. Enrico Fermi Qy. Sec. 20, T6S, R10E <u>MONROE COUNTY</u>
The France Stone Co. 1800 Toledo Trust Bldg. Toledo, Ohio 43604	(9)	Dolomite, crushed	At Monroe Sec. 7, T7S, R9E, <u>MONROE COUNTY</u>
The France Stone Co. 1800 Toledo Trust Bldg. Toledo, Ohio 43604	(10)	Dolomite, crushed	At Grape Sec. 13, T6S, R7E <u>MONROE COUNTY</u>
Inland Lime & Stone Co. Div. Inland Steel Co. Gulliver, Michigan 49840	(11)	Limestone, crushed	N of Port Inland Sec. 6, T42N, R12W <u>NACKINAC COUNTY</u>
Inland Lime & Stone Co. Div. Inland Steel Co. Gulliver, Michigan 49840	(12)	Dolomite, crushed	W of Port Inland, Sec. 2, T41N, R13W <u>SCHOOLCRAFT COUNTY</u>
Inwood Stone Products Co. Cooks, Michigan 49817	(13)	Dolomite, dimensional	West of Manistique Sec. 8, T41N, R17W <u>SCHOOLCRAFT COUNTY</u>
Iosco Co. Rd. Comm. P. O. Box 31 East Tawas, Michigan 48730	(14)	Limestone, crushed	Northeast of AuGres Sec. 24, T20N, R7E <u>ARENAC COUNTY</u>
Jeffrey Limestone Co. Box 126 Parma, Michigan 49269	(15)	Limestone, crushed	Northeast of Parma Sec. 30, T2S, R2W <u>JACKSON COUNTY</u>
Limestone Mountain Co. (Div. Thornton Const. Co.) 1028 Fthel Avenue Hancock, Michigan 49930	(16)	Dolomite, crushed	Near Pelkie Sec. 24, T51N, R35W <u>HOUGHTON COUNTY</u>
Lindberg and Sons Box 308 Ishpeming, Michigan 49849	(17)1	Dolomite, crushed	East of Negaunee Sec. 8, T47N, R25W <u>MARQUETTE COUNTY</u>
Michigan Stone Co. Ottawa Lake, Michigan 49267	(18)	Dolomite, crushed	Near Marquette Sec. 29, T6S, R8E <u>MONROE COUNTY</u>
Mich. Foundation Quarry Co. 110 W. Jefferson Ave. Trenton, Michigan 48183	(19)	Limestone, crushed	At Trenton Sec. 7, T4S, R11E <u>WAYNE COUNTY</u>
Michigan Limestone Operation U. S. Steel Corporation Rogers City, Michigan 49779	(20)	Limestone, crushed	Near Rogers City Sec. 23, T35N, R5E <u>PRESQUE ISLE COUNTY</u>

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



- | | |
|----------------------------------|--|
| 1. AFTON STONE AND LIME CO. | 17. LINDBERG & SONS |
| 2. ARENAC CO. ROAD COMMISSION | 18. MICHIGAN STONE CO. |
| 3. BETHLEHEM MINES CORP. | 19. MICHIGAN FOUNDATION QUARRY CO., INC. |
| 4. BICHLER GRAVEL CO. | 20. MICHIGAN LIMESTONE OPERATION |
| 5. BAY COUNTY ROAD COMMISSION | 21. MICHIGAN LIMESTONE OPERATION |
| 6. CHARLEVOIX LIME & STONE CO. | 22. MICHIGAN STONE CO. |
| 7. CHENEY LIMESTONE CO. | 23. ONAWAY STONE CO. |
| 8. DETROIT EDISON CO. | 24. PRESQUE ISLE CORP. |
| 9. THE FRANCE STONE CO. (MONROE) | 25. VAN DEUSEN STONE CO. |
| 10. THE FRANCE STONE CO. (GRAPE) | 26. THE WALLACE STONE CO. |
| 11. INLAND LIME & STONE CO. | 27. OTTAWA SILICA CO. |
| 12. INLAND LIME & STONE CO. | 28. RAY'S STONE QUARRY |
| 13. INWOOD STONE PRODUCTS CO. | 29. JUDE STONE COMPANY |
| 14. IOSCO COUNTY ROAD COMMISSION | 30. AGGREGATE SPECIALITES, INC. |
| 15. JEFFREY LIMESTONE CO. | 31. FELCH QUARRY CORP. |
| 16. LIMESTONE MOUNTAIN CO. | 32. HOUGHTON CO. ROAD COMMISSION |

Name of Operation	Map No. (page 14)	Type of Stone	Quarry Location
Michigan Limestone Operation U. S. Steel Corporation Rogers City, Michigan 49779	(21)	Dolomite, crushed	Near Cedarville Sec. 10, T42N, R1E MACKINAC COUNTY
Michigan Stone Co. Ottawa Lake, Michigan 49267	(22)	Dolomite, crushed	East of Ottawa Lake Sec. 25, T8S, R6E MONROE COUNTY
Onaway Stone Co. C/O Cherryland Cut Stone Co. Route 4, Box 529 Traverse City, Michigan	(23)	Limestone, dimensional	North of Onaway Sec. 5, T34N, R2E PRESQUE ISLE COUNTY
Presque Isle Corp. P. O. Box 426 Alpena, Michigan 49704	(24)	Limestone, crushed	Sec 2, T33N, R8E PRESQUE ISLE COUNTY
Van Deusen Stone Co. Route 1, Tonkey Road Au Gres, Michigan 48703	(25)	Limestone, crushed	Northeast of Au Gres Sec. 5, T19N, R7E ARENAC COUNTY
The Wallace Stone Co. Div. J. P. Burroughs & Son, Inc. Bayport, Michigan 48720	(26)	Limestone, crushed and dimensional	Southeast of Bayport Sec. 5 & 6, T16N, R10E HURON COUNTY

* Does not include producers of limestone for manufacture of cement; see CEMENT

SANDSTONE

Name of Operation	Map No. (page 14)	Type of Stone	Quarry Location
Ottawa Silica Co. 33620 Streicher Rd. Rockwood, Michigan 48173	(27)	Sandstone, crushed (silica sand)	Near Rockwood Sec. 15, T5S, R10E WAYNE COUNTY
Ray's Stone Quarry 303 Natawassaeppe St. Napoleon, Michigan 49261	(28)	Sandstone	East of Napoleon Sec. 6, T4S, R2E JACKSON COUNTY
Jude Stone Company Napoleon, Michigan 49261	(29)	Sandstone	East of Napoleon Sec. 31, T3S, R2E JACKSON COUNTY

MISCELLANEOUS STONE

Aggregate Specialties Caspian, Michigan 49915	(30)	Feldspar and amphibolite, crushed	Randville, NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 26, T42N, R30W, SE $\frac{1}{4}$ SW $\frac{1}{4}$ & SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 30, T42N, R29W DICKINSON COUNTY
Felch Quarry Corp. Box 97 Felch, Michigan 49831	(31)	Marble, crushed	2 $\frac{1}{2}$ Mi. E of Felch SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 26, T42N, R28W DICKINSON COUNTY

Name of Operation	Map No. (page 14)	Type of Stone	Quarry Location
Houghton Co. Rd. Comm. Royce Rd. Hancock, Michigan 49930	(32)	Basalt, crushed	C, SE, Sec. 10, T54N, R34W; NW Sec. 21, T54N, R34W; NW SE, Sec. 30, T52N, R36W HOUGHTON COUNTY

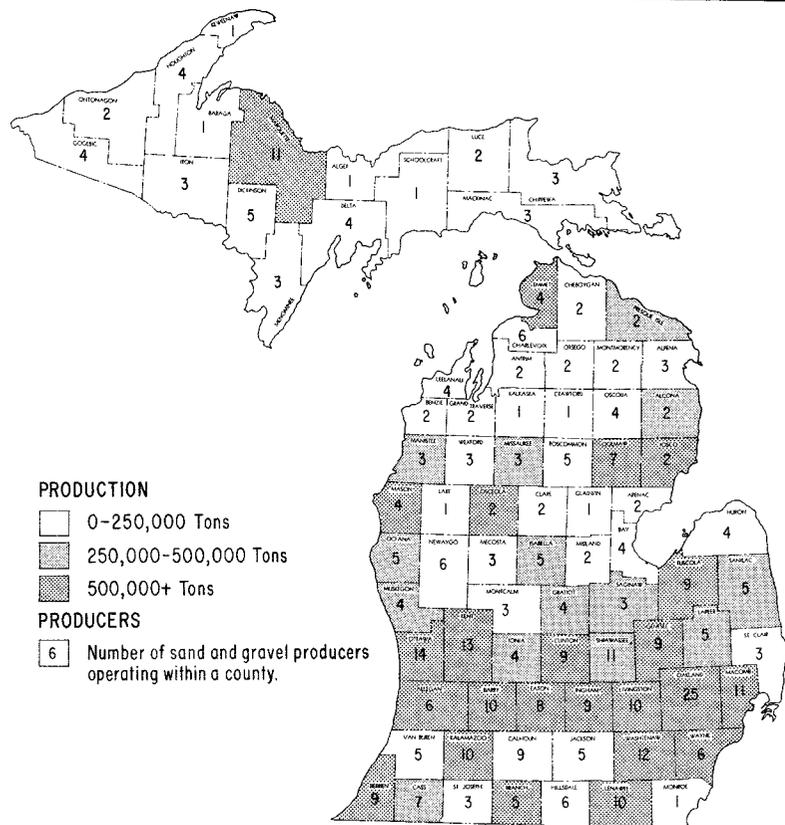
Sulfur

Name & Address of Producer	Nearest Town	County
Leonard Refineries, Inc. Alma, Michigan 48801	Alma	GRAIOT COUNTY
Marathon Oil Company 1300 S. Fort Street Detroit, Michigan 48217	Detroit	WAYNE COUNTY
Mobil Oil Co., Inc. Box 477 Trenton, Michigan 48183	Trenton	WAYNE COUNTY

Industrial Sand

Company	Type Plant & Use	County
Arrowhead Silica Corp. (Manley Bros. Div.) 128 S. 15th Street Chesterton, Indiana 46304	Plant: Stationary Uses: Molding, Blast, Engine	SW $\frac{1}{4}$ Sec. 5, & NW $\frac{1}{4}$ Sec. 8, T6S, R19W BERRIEN COUNTY
Construction Agg. Corp. 120 S. LaSalle St. Chicago, Illinois 60603	Plant: Stationary Use: Molding	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 17, T8N, R16W OTTAWA COUNTY
Great Lakes Foundry Sand Co. 1217 Francis Palms Bldg. Detroit, Michigan 48201	Plant: Dredge, Stationary Use: Molding	SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 27, T12N, R8E TUSCOLA COUNTY
Manley Sand Div. Martin Marietta Corp. Rocton, Illinois 61072	Plant: Stationary Uses: Glass, Molding, Engine, & others	Sec. 18, T6S, R19W BERRIEN COUNTY
McCormick Sand Corp. 4912 Russel Road Muskegon, Michigan 49440	Plant: Portable Use: Molding	SE $\frac{1}{4}$ Sec. 16, T11N, R16W MUSKEGON COUNTY
Nugent Sand Co., Inc. 2875 Lincoln St. Muskegon, Michigan 49440	Plant: Dredge, Stationary Uses: Molding, Engine	NE $\frac{1}{4}$ Sec. 3, T9N, R17W MUSKEGON COUNTY
Ottawa Silica Company 33620 Streicher Rd. Rockwood, Michigan 48173	Plant: Stationary Uses: Glass, Molding, Blast, Engine, Abrasive, Enamel, Pottery	SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 15, T5S, R10E WAYNE COUNTY

NUMBER AND PRODUCTION OF SAND AND GRAVEL PRODUCERS PER COUNTY



NUMBER AND PRODUCTION OF DOMESTIC COMMERCIAL SAND AND GRAVEL PLANTS IN MICHIGAN BY SIZE OF OPERATION (U. S. BUREAU OF MINES)

Annual Production	Plants		Thousand Short Tons	
	Number	Percent		Percent
0 to 25,000	115	35.1	1,386	2.7
25,000 to 50,000	40	12.2	1,534	3.0
50,000 to 100,000	47	14.3	3,558	6.9
100,000 to 200,000	49	14.9	6,872	13.4
200,000 to 300,000	26	7.9	6,542	12.7
300,000 to 400,000	13	4.0	4,767	9.3
400,000 to 500,000	11	3.4	4,965	9.7
500,000 to 600,000	11	3.4	5,942	11.6
600,000 to 700,000	4	1.2	2,637	5.1
700,000 to 800,000	4	1.2	2,922	5.7
800,000 to 900,000	4	1.2	3,414	6.6
900,000 to 1,000,000	-	0	-	0.0
1,000,000 to OVER	4	1.2	6,823	13.3
TOTAL	328	100.0	51,362	100.0

Company	Type Plant & Use	County
Sand Products Corp. 2489 First Nat'l. Bank Bldg. Detroit, Michigan 48226	Plant: Dredge, Portable Use: Foundry	N $\frac{1}{2}$ Sec. 11, T21N, R17W MANISTEE COUNTY
Sargent Sand Co. 2840 Bay Rd. Saginaw, Michigan 48604	Plant: Stationary Uses: Molding, Grinding, Polishing	BAY COUNTY MASON COUNTY SAGINAW COUNTY TUSCOLA COUNTY
Standard Sand Co. P. O. Box 290 Grand Haven, Michigan 49417	Plant: Stationary Uses: Molding, Engine	E $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 2, T6N, R13W OTTAWA COUNTY

Construction Sand and Gravel

Name and Address (Michigan)	County
A A.B.C. Sand Co., 36444 Cowan Rd., Nankin 48184 [P]	WAYNE
Adrian Sand & Gravel Co., (Geo. Oldfield, Inc.) Adrian 49221 (2 pits) [S-2]	LENAWEE
Advance Bldg. Materials Co., 4500 31 Mile Rd., Romeo 48065 [S]	MACOMB
Aggregate Processors, Inc., Box 566, White Pigeon 49099 [D]	ST. JOSEPH
Albert Sand & Gravel, Inc., Stow Rd., Fowlerville 48836 [D,S]	LIVINGSTON
Albrecht, William Jr., Sandusky 48471 [P]	SANILAC
Alcona County Road Commission, Lincoln 48742 [P]	ALCONA
Alger County Road Commission, Box 231, Munising 49862 [P]	ALGER
Allegan County Road Commission, R#1, Box 2, Allegan 49010 [P]	ALLEGAN
Alpena County Road Commission, Box 28, Alpena 49707 [P]	ALPENA
American Aggregates Corp., 21158 W. Nine Rd., Southfield 48075 [S-4]	KALAMAZOO, LIVINGSTON (HMS), MACOMB (HMS), OAKLAND (HMS)
American Stone Products, 6335 Sashabow Rd., Clarkston 48016 [D,P]	OAKLAND
Andersen Sand & Gravel Co., 1705 Boxwood St., Saginaw 48601 [D]	TUSCOLA
Anderson Gravel Co., Belding 48809 [S]	MONTCALM
Antrim County Road Commission, Mancelona 49659 [P]	ANTRIM
Arenac County Road Commission, Omer 48749	ARENAC
Attica Aggregates Corp., 1200 Lake George Rd., Attica 48412 [P]	LAPEER
B B & K Sand and Gravel, Wallace 49893 [S]	MENOMINEE
Balkema, Henry, 1500 River St., Kalamazoo 49001	CALHOUN, KALAMAZOO
Baraga County Road Commission, P. O. Box 227, L'Anse 49946 [P]	BARAGA
Barr Sand and Gravel, Inc., 968 Barnes Rd., Mason 48854 [P]	INGHAM
Barry County Road Commission, P. O. Box 158, Hastings 49058	BARRY
Bartlett, Norman & Leon, R#3, East Jordan 49727 [BR]	CHARLEVOIX
Beagle, Richard, Sand & Gravel, 1623 S. Commerce Rd., Walled Lake 48088 (4 pits) [P]	OAKLAND
Beckman Bros. (Shelby Tractor Sales), 210 Michigan Ave., Shelby 49455 [P,S]	OCEANA
Bennett Excavating & Gravel Co., Hamburg 48139	LIVINGSTON
Benzie County Road Commission, Honor 49640 [P]	BENZIE
Bernthal Sand & Gravel Co., R#2, Reese 48757 [P,S]	TUSCOLA
Bichler Gravel Co., Box 205, Wells, 49894 [S]	DELTA
Boichot Concrete Prod. Corp., 1800 Turner St., Lansing 48906 [S]	CLINTON (HMS)

Name and Address (Michigan)	County
Brade Ready Mix Co., 175 Main St., Kinde 48455 [S]	HURON
Brady Sand & Gravel, Tecumseh 49286 [P]	LENAWEE
Brewers City Coal Dock, 24 Pine Ave., Holland 49423 [P]	OTTAWA
Briggs Ready-Mix & Gravel, 311 State St., Charlotte 48813 [S]	EATON (HMS)
Brink, William, 1535 Willis Rd., Salina 48176	WASHTENAW
Brow, Gene, Newberry 49868 [P]	LUCE
Brown, Gil, Constructors, Inc., R#2, Alpena 49707 [P]	BARRY
Budzen, John, Route 1, Paw Paw 49079 [S]	VAN BUREN
Bundy Hill Gravel Co., (L. A. Davidson Co.) Jerome 49249 [S]	HILLSDALE (HMS)
Burkett, J. V., St. Joseph 49085 [P]	LENAWEE, OTTAWA, VAN BUREN
C	
Calhoun County Road Commission, County Bldg., Marshall 49068	CALHOUN
Carter, George, Sand & Gravel, 2900 Inwood Rd., Romeo 48065 [P]	MACOMB
Carleton Sand Co.	MONROE
Caspian Constr. Co., Caspian 49115 [P]	DELTA, DICKINSON, IRON, SCHOOLCRAFT, ONTONAGON
Cass County Road Commission, R#1, Box 175, Cassopolis 49031 [P]	CASS
Central Michigan Sand & Gravel, 416 E. Huron St., Ann Arbor 48108 [S]	CLINTON
Champion, Inc., 105 E. "A" St., Iron Mountain 49801 [P]	DICKINSON, MARQUETTE
Clare County Road Commission, Harrison 48625 [P]	CLARE
Cliff's Gravel Co., G-6411 W. Carpenter Rd., Flushing 48433 [DL]	GENESEEE
Clinton County Road Commission, St. Johns 48879 [P]	CLINTON
Coit Ave. Gravel Co., Inc., 4772 Coit Ave. NE, Grand Rapids 49505 [P,S]	KENT
Cole Brothers, R#3, Box 368, Battle Creek 49017 [P]	BARRY, CALHOUN, HILLSDALE, IONIA, KALAMAZOO, ST. JOSEPH BARRY CALHOUN
Cole Gravel Co., R#1, Patterson Rd., Wayland 49348 [S]	
Combs, Emil, Gravel & Ready-Mix, R#1, Tekonsha 49092 [S]	
Constr. Aggregates Corp., 120 S. LaSalle St., Chicago, Ill. 60603 [S]	OTTAWA (HMS)
Consumers Sand & Gravel Co., Nazareth Rd., P. O. Box 231, Kalamazoo, 49001 [D,P,S]	KALAMAZOO
Contractors Gravel Co., Box 83, Sparta 49345 [D,S]	KENT
Cook Block Co., 138 E. Harrington Rd., Crosswell 48422 [S]	SANILAC
Corey & Hartwig, Inc., Hadley, Michigan 48440 [P,S]	LAPEER
Cousineau Gravel, Inc., 1104 S. State St., Big Rapids 49307 [P]	ISABELLA, MASON, MECOSTA, MONTCALM EATON
Crandell Trucking Co., Charlotte 48813 [P]	
D	
D. & J. Gravel Co., R#2, 4950 Mason Rd., Howell 48843 [P,S]	LIVINGSTON
Dean & Son, N. Pine St., Onaway 49765 [P]	CHEBOYGAN
Delta County Road Commission, P. O. Box 298, Escanaba 49829 [P]	DELTA
Delton Excavating Co., Cloverdale 49035 [S]	BARRY
DeVries & Sons, 959 Bristol Ave. NW, Grand Rapids 49504 [S]	KENT
DeWent Gravel Co., U. S. #21, Hudsonville 49426 [S]	OTTAWA
Dickinson County Road Commission, P. O. Box 509, Iron Mountain 49801 [P]	DICKINSON
Dubey, Wayne, Sand & Gravel, R#3, Alpena 49707 [P]	ALPENA
Dunbar, Leo, 7658 U. S. 131 S., Cadillac 49601 [S]	WEXFORD
Dyer Company, McBridges 48852 [P]	MONTCALM
E	
Eastman Gravel Pit, R#1, 422 Stover Rd., Standish 48658 [S]	ARENAC
Ehinger Bros. Excavating Co., 350 M-30, West Branch 48661	OGEMAW
Eichenberg, Howard, Contr., White Cloud 49349 [P]	NEWAYGO
Emmet County Road Commission, Petoskey 49770 [P]	EMMET

Name and Address (Michigan)	County
F	
Faulkender Sand & Gravel, Inc. 1601 Hamlin Road, Rochester 48063 [S]	OAKLAND CLINTON
Fedewa, Leo, Route 4, St. Johns 48879	LIVINGSTON
Fenton Gravel Co., Inc., 11301 Fenton Hill Rd., Fenton 48430 [S]	GENESEEE
Ferguson Excavating Co., 5360 N. State Rd., Davison 48423 [P]	INGHAM
Fiser Supply Co., 1617 E. Jolly Rd., Lansing 48910 [D]	
Fisher Sand & Gravel Co., 921 S. Jefferson Ave., Midland 48640 [P]	ISABELLA, MIDLAND
Fitzgerald, Fred, Gravel Co., 3713 E. Six Mile Creek, Owosso 48867 [P]	SHIAWASSEE
Fleming Gravel Co., 122 North Ave., R.R.#3, Allegan 49010 [P]	ALLEGAN
Fox, R. J., Constr. Co., Caro 48723 [P]	BARAGA, MARQUETTE, ONTONAGON
Fox Valley Constr. Co., Box 827, Appleton, Wisconsin 54910 [P]	BARAGA, DELTA, MARQUETTE, MENOMINEE, ONTONAGON
French, B. L. & Son, Hatchery Road, Drayton Plains 48020	OAKLAND
Fuoss Gravel Co., R#1, Durand 48429 [P]	SHIAWASSEE
G	
Genesee Gravel Co., Swartz Creek 48473	GENESEEE
George, Jerry, Sand & Gravel, Inc., Harrisville 48740 [P]	ALCONA [P]
Gillette Sand & Gravel, 9741 E. M-78, Haslett 48840 [D,S]	SHIAWASSEE
Glancy, R. E., Inc., 1055 S. Bay Dr., Tawas City 48763 [P]	IOSCO, MONTMORENCY
Globe Ready Mix, Norrie Loc., Ironwood 49938 [P]	GOGEBIC
Gogebic County Road Commission, Courthouse, Bessemer 49911 [P]	GOGEBIC
Gooding, O. E. & Co., (Whittaker & Gooding Co.), 5800 Cherry Hill Rd., Ypsilanti 48197 [P]	WASHTENAW, LENAWEE
Grand Rapids Gravel Co., 2100 Chicago Dr. 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 49504 [S]	OTTAWA
Gratiot County Road Commission, Ithaca 48847 [P]	GRATIOT
Great Lakes Gravel Co., Inc. 2900 Auburn Rd., Utica 48087 [D,S]	MACOMB
Gronlund Gravel Co., Bear Lake 49614 [P]	MANISTEE
H	
Halliday Sand & Gravel, Inc., Houghton Lake 48629 [P,S]	ROSCOMMON
Harmon Sand & Gravel Co., 3365 Harmon Rd., St. Johns 48879 [S]	CLINTON
Hayes Washed Sand & Gravel Co., Inc., Box 157, Northville 48167	WAYNE
Hersey Sand & Gravel Div., J. P. Burroughs & Son, Hersey 49639 [S]	OSCEOLA (HMS)
Hocking, George, Construction Co., South Range 49963 [P]	HOUGHTON
Hodgins, Ken & Sons, Marquette 49855 [P]	MARQUETTE
Holloway Sand & Gravel Co., Inc. (Holloway Construction Co.) 29250 Wixom Rd., Box 247, Wixom 48096 [P]	GENESEEE, OAKLAND, OTSEGO
Holly Sand & Gravel Plant, J. P. Burroughs & Son, Inc., 16240 Tindall Rd., Davisburg 48019 [S]	OAKLAND (HMS)
Holmberg, Gunnar F., R#1, Gladstone 49837	DELTA
Hoffman Bros. Sand & Gravel, Battle Creek 49015 [S]	CALHOUN
Hoover Brothers, 1139 Tripp Rd., Waldron 49288 [P]	HILLSDALE
Houghton County Road Commission, Royce Rd., Hancock 49930 [P]	HOUGHTON
Hubscher & Son, P. O. Box 411, Mt. Pleasant 48858 [D,P,S]	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
Hutfilz, Walter, 2850 Bay Rd., Saginaw 48601	SAGINAW

Name and Address (Michigan)	County
I Indiana Hwys. Materials, Inc., 2116 W. Wilden Ave., Goshen, Indiana 46526	CASS
Ingham County Road Commission, 301 Bush St., Mason 48854 [P]	INGHAM
Ionia County Road Commission, P. O. Box 76, Ionia 48846 [P]	IONIA
Iosco County Road Comm., 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
Isabella County Road Commission, R#2, Mt. Pleasant 48858 [P]	ISABELLA
Ishpeming, City of, Ishpeming 49849	MARQUETTE
J Jackson Sand & Gravel, R#2, Reading 49274	HILLSDALE
Jennings, Inc., 14300 Shields Rd., Holly 48442	OAKLAND
John R. Sand & Gravel Co., 2272 Seymour L. Rd., Oxford 48051	OAKLAND
K K-V Gravel Co., 403 Cherokee Dr., Fremont 49412 [S]	NEWAYGO
Kalkaska County Road Commission, Kalkaska 49646 [P]	KALKASKA
Kent County Road Commission, 1500 Scribner NW, Grand Rapids 49504	KENT
Kemler Brothers, 100 South St., Rochester 48063 [S]	OAKLAND
Ketchum Gravel & Ready-Mix, R#3, Mason 48854 [S]	INGHAM
Keweenaw County Road Commission, Mohawk 49950 [P]	KEWEENAW
Kiell Excavating Co., 2046 M-140, Niles 49120 [P]	BERRIEN
Killins Concrete Co., 3305 W. Liberty, P. O. Box 1046, Ann Arbor 48106 [S]	WASHTENAW (HMS)
Klett Construction Co., Hartford 49057 [P]	VAN BUREN
Klumpp Bros. Gravel Co., 4950 Loveland Rd., Grass Lake 49240 [P,S]	JACKSON, LENAWEE
Koenig Fuel & Supply Co., 500 E. Seven Mile Rd., Detroit 48203 [S]	OAKLAND (HMS)
Kruse Gravel Pit, 1090 W. Clark Rd., Ypsilanti 48197 [S]	WASHTENAW
Kurtz Gravel Co., G-5300 N. Dort Hwy., Flint 48505 [S]	GENESEE
L Lake County Road Commission, Baldwin 49304 [P]	LAKE
Lake Superior & Ishpeming R.R., 105 Washington, Marquette 49855	MARQUETTE
LaMar Gravel Co., Inc., R#1, Grawn 49637 [S]	GRAND TRAVERSE
Lapeer County Road Commission, 44 Park St., Lapeer 48446 [P]	LAPEER
Leelanau County Road Commission, Suttons Bay 49682 [P]	LEELANAU
Liberty Sand Company, Box 1046, Ann Arbor 48105 [S]	WASHTENAW
Lilak & Moore, East Jordan 49727 [P,S]	CHARLEVOIX
Lindberg & Sons, Inc., Box 308, Ishpeming 49849 [P,S]	MARQUETTE
Livingston County Road Commission, 918 North St., Howell 48843	LIVINGSTON
Luce County Road Commission, P. O. Box 401, Newberry 49868 [P]	LUCE
Lyon Sand & Gravel Co., (Div. Ed. C. Levy Co.) 9300 Dix, Dearborn 48120 [S]	OAKLAND (HMS)
M Mackinac County Road Commission, St. Ignace 49781 [P]	MACKINAC
Macomb County Road Commission, 115 Groesbeck Hwy., Mt. Clemens 48043	MACOMB
Macomb Sand & Gravel Co., 3295 Auburn Rd., Utica 48087 [D]	MACOMB
Mangene, Mike, Inc., Cedarville 49719	MACKINAC
Manistee County Road Commission, 425 Parkdale Ave., Manistee 49660 [P]	MANISTEE
Marby & Melton, 3331 Adams Rd., Pontiac 48058 [P]	OAKLAND
Marquette, City of, Marquette 49855	MARQUETTE
Marquette County Road Commission, Box 10, Ishpeming 49849 [P]	MARQUETTE
Marvic & Sons, 1514 N. 16th, Escanaba 49829 [P]	DELTA

Name and Address (Michigan)	County
Mason County Road Commission, P. O. Box 247, Scottville 49454 [P]	MASON
Mason Excavating Inc., Route #4-#289, Gaylord 49735 [P]	CHEBOYGAN
McGuirk, Jim & Sons, 616 S. Adams St., Mt. Pleasant 48858	ISABELLA
McMahon Bros., Iron River 49935 [P]	IRON
Mecosta County Road Commission, 1105 E. Maple St., Big Rapids 49307 [P]	MECOSTA
Medusa Portland Cement Co., Box 5668, Cleveland, Ohio 44101 [S]	CHARLEVOIX
Menominee County Road Commission, 3222 10th St., Menominee 49858 [P]	MENOMINEE
Michigan, State of, Dept. Natural Resources, Lansing 48926	ALCONA, ALGER, ALPENA, CHEBOYGAN, CHIPPEWA, CRAWFORD, GOGEBIC, IOSCO, KALKASKA, MARQUETTE, MECOSTA, MENOMINEE, MONTMORENCY, ONTONAGON, OSCODA, ROSCOMMON, SCHOOLCRAFT, WEXFORD
Mickelson Corp., 435 Granger Rd., Oxford 48051 [D,S]	OAKLAND (HMS)
Midland County Road Commission, Midland 48640 [P]	MIDLAND
Mid-Michigan Materials, Inc., 406 Park Ave., Yale 49097 [S]	SANILAC
Miller, George & Sons, Inc., Route #2, Box 21, St. Joseph 49085 [P]	BERRIEN, KALAMAZOO
Miller Prod. & Supply Co., North U. S. 2, Iron Mountain 49801 [P]	DICKINSON
Miller, Paul C. Co., 10300 Sparta Ave., Sparta 49345 [P]	KENT, MUSKEGON, NEWAYGO, OCEANA, OTTAWA
Miller Sand & Gravel, R#2, Hopkins 49328 [P]	ALLEGAN
Millikin, Jack, Inc., Route #1, Box 12, Grayling 49738 [P]	CRAWFORD
Missaukee County Road Commission, P. O. Box A, Lake City 49651	MISSAUKEE
Molesworth Contracting Co., 321 Park Ave., Yale 48097 [P]	GENESEE, LAPEER, MACOMB, OAKLAND, SANILAC, ST. CLAIR
Montero, Anthony J., I-75 Business Spur, Sault Ste. Marie 49783	CHIPPEWA
Montcalm County Road Commission, Stanton 48888	MONTCALM
Montmorency County Road Commission, Atlanta 49709	MONTMORENCY
Moore Bros. Sand & Gravel, 7635 Wayne Rd., Wayne 48184 [S]	WAYNE
Morgan Sand & Gravel Co., 46218 Custer Road, Utica 48087 [S]	MACOMB, LIVINGSTON
Morgan, Al, Sand Co., 26291 Pennsylvania Rd., Romulus 48174	WAYNE
Muskegon Gravel Div., 4-Star Excavating Co., R.R.#1, Ravenna 49451 [S]	OTTAWA
N Nashville Gravel Co., R#3, Nashville 49073 [S]	BARRY (HMS)
Natural Aggregates Corp., 65545 Mound Rd., Romeo 48065 [D,S]	LIVINGSTON, MACOMB
Negaunee, City of, Negaunee 49866 [S]	MARQUETTE
Neuman Sand & Gravel, G-5281 Deland, Flushing 48433 [S]	GENESEE
Newaygo County Road Commission, White Cloud 49349 [P]	NEWAYGO
New Hudson Sand & Gravel, Inc., P. O. Box 174, New Hudson 48165 [P,S]	OAKLAND
Nieb Concrete Prod. Co., (Niles Sand & Gravel Div.), 1406 S. 11th St., Niles 49120 [S]	CASS
Northeast Gravel & Excav. Co., 4300 Cannonsburg Rd., Belmont 49306 [S]	KENT
Northern Concrete Prod. Co., Harbor Springs-Conway Rd., Petoskey 49770 [S]	EMMET
Northwest Materials, Inc., Bryan, Ohio 43506	HILLSDALE

Name and Address (Michigan)	County
O Oceana County Road Commission, P. O. Box 112, Hart 49420 [D,P]	OCEANA
Ogemaw County Road Commission, 223 Thomas St. West Branch 48661 [P]	OGEMAW
Ontonagon County Road Commission, 415 Spar St., Ontonagon 49953 [P]	ONTONAGON
Osborn, Dale, Inc., 5850 Pardee, Taylor 48180 [P]	WASHTENAW
Oscoda County Road Commission, Mio 48647 [P]	OSCODA
Otisville Stone Co., 12150 N. State Rd., Otisville 48463 [S]	GENESEE
Otsego County Road Commission, 720 S. Otsego Ave., Gaylord 49735 [P]	OTSEGO
Ottawa County Road Commission, Grand Haven 49417	OTTAWA
Oxford Mining Co., Davisburg 48019 [S]	OAKLAND
P P. & B. Gravel Co., R#3, Ithaca 48847 [D]	GRATIOT
Palmer Sand & Gravel, 2531 E. South St., Jackson 49201 [S]	JACKSON
Paris Gravel Co., R#1, Big Rapids 49307 [S]	MECOSTA
Peake Asphalt Paving Co., Inc. Utica 48087	MACOMB
Peninsula Asphalt & Constr. Co., Box 726, Traverse City 49684 [S]	LEELANAU
Penn-Dixie Cement Corp., Box 152, Nazareth, Pa. 18064	EMMET
Peterhans Bros. R#2, Caro 48723	TUSCOLA
Peters Constr. Co., 3325 E. Kilgore Rd., Kalamazoo 49001 [P]	KALAMAZOO
Peters Sand & Gravel, 3548 N. Deckerville Rd., Lupton 48635 [P]	OGEMAW (HMS)
Petersen Gravel & Excav., 350 Norwood, Rockford 49341 [S]	KENT
Pickitt & Schreur, Inc., Box 149, Allegan 49010 [P]	ALLEGAN (HMS), BARRY, CASS, IONIA, KALAMAZOO, KENT SHIAWASSEE
Polhamus Sand & Gravel, Ovid 48866 [S]	
Portable Aggregate Producers, Inc., Box 237, Walled Lake 48088 [P]	OAKLAND
Powell Sand & Gravel, Fairgrove 48733	TUSCOLA
Presque Isle County Road Commission, Rogers City 49779	PRESQUE ISLE
Pryor Bros., R#2, Grand Ledge 48837 [P]	CLINTON, EATON
Q Quality Aggregate Co., Inc., 646 Becker Rd., Osseo 49266 [S]	HILLSDALE
R Reith-Riley Const. Co., Inc., P. O. Box 566, Sturgis 49091 [P]	BERRIEN, CASS, CALHOUN, EATON, KALAMAZOO, KENT, OTTAWA, ST. JOSEPH
Riverside Sand & Gravel Co., 1050 Maynard Ave., SW, Grand Rapids 49504 [S]	KENT
Riverview Gravel Co., 805 Taylor St., Jenison 49428 [P,S]	OTTAWA
Rocks, Sand, Gravel Co., 2401 Chicago Dr., Grand Rapids 49509 [S]	KENT
Roscommon County Road Commission, P. O. Box 117, Roscommon 48653	ROSCOMMON
Roslund Gravel Co., 6902 Jerome Rd., Alma 48801 [D]	GRATIOT
Ryno Sand & Gravel, Box 778, Watervliet 49098	BERRIEN
S St. Clair County Road Commission, 3415 28th St., Port Huron 48060 [S]	LAPEER, ST. CLAIR
Saginaw County Road Commission, Saginaw 48601	SAGINAW

Name and Address (Michigan)	County
Salem Gravel & Constr. (J. P. Burroughs & Son, Inc.) 5175 Oakhill Rd., Clarkston 48016 [S]	OAKLAND
Sanderson, C. G., Equipment Co., City County Airport, Sault Ste. Marie 49783 [P]	CHIPPEWA
Sanilac County Road Commission, Sandusky 48471	SANILAC
Scarlett Gravel Co., 1721 S. Cedar, Holt 48842	INGHAM
Schworm Inc., Box 162, Traverse City 49684 [P]	GRAND TRAVERSE, LEELANAU
Sheldon Contractors, 4035 Dove Rd., Port Huron 48060	ST. CLAIR
Shiawassee County Road Commission, Corunna 48817 [D,P,S]	SHIAWASSEE
Short Hills Gravel Co., Manchester 48158 [S]	WASHTENAW
Sievert Bros., 200 E. River St., Manistee 49660 [P]	MANISTEE
Sky-Way Sand & Gravel Co., 4060 E. Holt Rd., Holt 48842 [D]	INGHAM (HMS)
Smith, D. L. Sand & Gravel, RT.#3, East Jordan 49727	CHARLEVOIX
Snellenberger Gravel, 1545 W. Fry Road, Burt 48417 [P]	GENESEE
South Flint Gravel Co., P. O. Box 275, Grand Blanc 48439 [S]	OAKLAND
Spartan Aggregates, Inc., 1740 S. Cedar, Holt 48842 [P]	CLINTON, EATON, INGHAM, LIVINGSTON, OAKLAND
Stamm Bros. Gravel Co., R#1, Adrian 49221 [P]	LENAWEE
Standard Gravel Co., Cement City 49233 [P]	LENAWEE
Standard Ready-Mix, Inc., Lansing 48900 [S]	CLINTON, INGHAM
Stanley, Jess, Gravel, R#3, Houghton Lake 48629 [P]	CRAWFORD, GLADWIN, ROSCOMMON
Steel Brothers, 458 W. Sunset Dr., Roscommon 48653 [P]	ROSCOMMON
Stidham Gravel Co., 227 S. Michigan Ave., Hastings 49058 [S]	BARRY
Stony Lake Sand & Gravel, R#1, Augusta 49012 [S]	KALAMAZOO
Straits Aggregate & Equip. Corp., Box 119A, R#1, Oscoda 48753 [S]	PRESQUE ISLE
Superior Sand & Gravel, Inc., 1028 Ethyl Ave., Hancock 49930 [P]	HOUGHTON
Sutherland, Warren, Delton 49046	BARRY
T Tecumseh Gravel Co., P. O. Box 247, Tecumseh 49286 [S]	LENAWEE
Telischak Sand & Gravel, Inc., 12300 Farmington Rd., Livonia 48150 [P]	OAKLAND
Tharp & Kosiba, 445 Brown Rd., Pontiac 48053 [BR]	OAKLAND
Thomas, Alfred H., 250 W. Park Ave., Vicksburg 49097 [BR]	KALAMAZOO
Thompson Constr. Co., 234 W. Garfield, Coldwater 49036	BRANCH
Thompson-McCully Sand & Gravel Co., 5905 Belleville Rd., Belleville 48111 [S]	WASHTENAW
Thomson Sand & Gravel, 48399 W. 7 Mile Rd., Northville 48167 [P,S]	WAYNE
Town's Trucking Co., P. O. Box 577, Ludington 49431 [P]	MASON, OCEANA
Traverse City Sand & Gravel Co., Box 421, Traverse City 49684 [P]	LEELANAU
Tuckey Block Co., Cass City 48726 [D,S]	TUSCOLA
Tuscola County Road Commission, 120 Millwood St., Caro 48723	TUSCOLA
U Underwood Sand & Gravel Co., 2255 Hamlin Rd., Utica 48087 [S]	OAKLAND
V Van Buren County Road Commission, Paw Paw 49079	ALLEGAN, VAN BUREN
Van Every, Charles, Northville 48167 [P]	OAKLAND
Velting Contractors, Inc., 2021 Newark Ave., SE, Grand Rapids 49507 [P]	KENT

CONSTRUCTION SAND & GRAVEL (CONT'D.)

Name and Address (Michigan)	County
Vermontville Gravel Co., R#1, Vermontville 49096	EATON
Vollmer Sand & Gravel, 136 S. Caseville Rd., Pigeon 48755 [D,S]	HURON
Voss, Harold O., R#2, Fennville 49408	ALLEGAN
W	
Waanders, Ben, & Son, R#5, Box 30, Allegan 49010 [S]	ALLEGAN
Wagner Ready-Mix, 220 N. 3rd St., Harbor Beach 48441 [S]	HURON
Washtenaw County Road Comm., 555 N. Zeeb Rd., Ann Arbor 48103	WASHTENAW
Washtenaw Sand & Gravel, Inc., 4984 Earhardt, Ann Arbor 48105	WASHTENAW
[S]	WASHTENAW
Waterbury, Wallace Gravel Co., R#6, Box 19, U. S. 27 North, Coldwater 49036 [D,S,P]	BRANCH (HMS)
Wayne Sand & Gravel, Inc., P. O. Box 267, Wayne 48184 [S]	WAYNE
Weaver, Ronald, Gravel Co., Box 116, Dansville 48819 [P]	INGHAM, JACKSON, SHIawassee
Weber's Sand & Gravel, 2595 Lapeer Rd., Pontiac 48055 [P,S]	OAKLAND
West Branch Concr. Prod., Inc., 3350 Rau, West Branch 48661 [S]	OGEMAW
West Lansing Gravel Co., 1500 E. High St., Lansing 48900 [P]	INGHAM
West Shore Constr. Co., Inc., Zeeland 49464 [P]	OTTAWA
Wexford County Road Commission, P. O. Box 88, Cadillac 49601 [P]	WEXFORD
Wexford Gravel Co., P. O. Box 472, Cadillac 49601 [P]	WEXFORD
Wheeler Transit Mix Concrete Co., Box 65-A, Greenville 48838 [S]	MONTCALM
White, Alden Bldg. Contr., Watervliet 49098 [P]	BERRIEN
White Pond Gravel Co., RFD #1, Cassopolis 49031 [S]	CASS
Whites Washed Sand & Gravel, Houghton Lake 48629 [S]	ROSCOMMON
Whitehall Farms, 62751 Haven Ridge Rd., Richmond 48062	MACOMB
Whitehall Gravel Co., 3278 Colby St., Whitehall 49461 [S]	MUSKEGON
Whitehead, I. L., Co., Sault Ste. Marie 49783 [P]	CHIPPEWA, MACKINAC
Whittaker & Gooding Co., 5800 Cherry Hill Rd., Ypsilanti 48197	WASHTENAW
[S]	EATON
Whittum's Gravel Co., Eaton Rapids 48827 [S]	EATON
Wiggins, Max & Sons, Merritt 49667 [S]	WEXFORD
Williams Bros. Asphalt Co., Box 78, Ionia 48846 [P,S]	IONIA
Willson Bros., Inc., Rives Junction 49277 [D,S]	JACKSON
Wurth Concrete & Aggregates, Inc., 3734 10th St., Menominee 49858 [S]	MENOMINEE
Y	
Yerington, John G., R#3, Box 34, Benton Harbor 49022 [P]	ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, CLINTON, HILLSDALE, IONIA, LENAWEE, MUSKEGON, NEWAYGO, VAN BUREN

(HMS) = Heavy media separation equipment

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

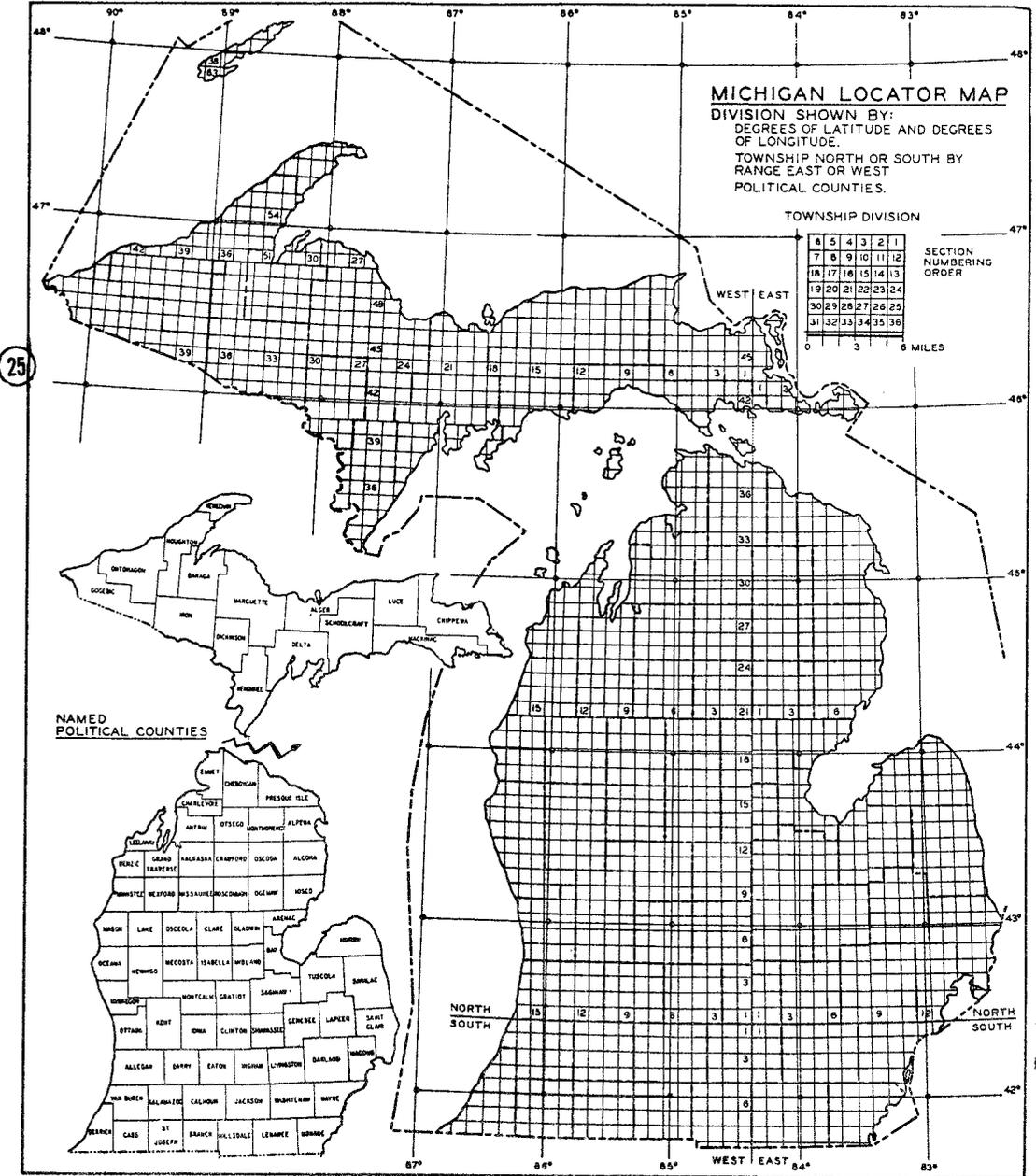
Mineral Producers Listed By County

1972

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

The line appearing in italics below each county name gives: (1) the county standing (rank) in total value of minerals produced by the county in 1971, (2) the total dollar value, (3) percentage increase or decrease in value from 1970, and (4) minerals produced in the county in order of value. Values withheld in order to avoid disclosing individual company confidential data are indicated with a (W). Figures in parentheses following a mineral resource show the rank of the county in production. 1971 production and value figures are given because 1972 data was not available at time of printing.

A brief narrative report on 1970 mineral production county by county is given in "Mineral Industry of Michigan, 1970", 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 48926.



ALCONA

72nd - \$135,000 (-44.2%): Sand and gravel

Alcona Co. Road Comm.	NW NW 14 28N 8E	NW SE 23 27N 8E	Sand and gravel
	SW SW 12 26N 9E	NE SW 1 26N 9E	" " "
	SW NE 4 28N 5E	SE NE 7 26N 6E	" " "
Jerry George Sand & Gravel	NW NW 12 25N 6E	NE NW 12 25N 6E	" " "
State of Michigan	NE SE 3 25N 9E	NE NE 12 25N 6E	" " "
	NE NW 34 27N 7E	SW SW 32 27N 5E	" " "

ALGER

77th - \$69,000 (+76.9%): Sand and gravel

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

ALLEGAN

46th - \$991,000 (-8.6%): Sand and gravel, Petroleum, Natural Gas, Peat, Marl

Allegan Co. Rd. Comm.	(contractor)	Sand and gravel
Gerald Arnsman	Hervig, Belden, Ryan Pits	Marl
Charles E. Douglas	Wayland	Peat (reed-sedge)

ALLEGAN (con't.)

Flemming Gravel Company	Allegan		Sand and gravel
Miller Sand & Gravel Company	11&14 2N 12W		" " "
Emil Pavlak	NE SW 12 2N 12W		Marl
Pickett & Schreur	NW SE 18 4N 13W		Sand and gravel
	SW NE 34 3N 13W		" " "
Harold O. Voss	Fennville		" " "
Ben Waanders & Son	W½ NW 21 2N 13W		" " "

ALPENA

5th - (W) (-4.4%): Cement (1st), Stone for cement mfg., Shale for cement mfg., Sand and gravel

Alpena Co. Road Comm.	NW SW 13 30N 7E		Sand and gravel
	SW 35 31N 6E		" " "
	E½ NW 24 32N 8E		" " "
	13 32N 7E		" " "
Bernard Dowling Trucking	Alpena		" " "
Wayne Dubey	NE SE 23 32N 8E		" " "
	SE 32 32N 8E		" " "
Huron-Portland Cement Co.	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
Mich. State Hwy. Dept.	(contractor)		" " "

ANTRIM

61st - (W) (+7.2%): Shale for cement mfg., Sand and gravel

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		" " "
Lilak and Moore	NW 7 29N 8W		" " "
Medusa Portland Cement Co.	NW SW 24 32N 8W		Shale
Mich. State Hwy. Dept.	(contractor)		Sand and gravel
Penn-Dixie Portland Cement Co.			Shale

ARENAC

43rd - (W) (+): Petroleum, Stone, Sand and gravel

Arenac Co. Road Comm.	NE NW 25 20N 7E		Limestone, crushed
	NW SE 20 10N 3E		Sand and gravel
Bay Co. Road Comm.	SE SE 34 20N 5E		Limestone, crushed
Eastman Gravel pit	SW NW 36 19N 5E		Sand and gravel
Iosco Co. Road Comm.	SW 24 20N 7E		Limestone, crushed
Van Dusen Stone Co.	NW 5 19N 7E		Limestone, crushed

BARAGA

75th - \$120,000 (-32.4%): Sand and gravel

Baraga Co. Road Comm.	7 49N 33W		Sand and gravel
	15 48N 33W		" " "
	NW 23 51N 31W		" " "

BARRY

53rd - (W) (-): Sand and gravel, Petroleum, Marl

Barry Co. Road Comm.			Sand and gravel
Cole Gravel Co.	NE NW 7 3N 10W		" " "
Cole Brothers	(for county)		" " "
William Currier	NW SE 6 4N 10W		Marl
Delton Excav. Co.	Delton		Sand and gravel
Flemming Brothers	SW NW 25 2N 10W		" " "
E. R. Hamilton	NE 25 2N 7W		Marl
Nashville Gravel Co.	NE NW 10 1N 7W (HMS)		Sand and gravel
Pickett & Schreur Inc.	N½ SW 3 1N 7W		SE SW 35 3N 8W
Stidham Gravel Co.			SW NW 12 3N 9W
Wayne Sutherland	Sutherland pit		" " "
John G. Yerington	30 4N 10W		" " "

BAY

17th - (W) (+22.0%): Cement, Sand and gravel, Petroleum, Lime

Aetna Portland Cement Co.	NE 14 14N 5E		Cement
Monitor Sugar Div.	Bay City		Lime
Bay Co. Road Comm.	SE NE 9 17N 3E		Sand and gravel
	NE SW 14 17N 4E		NE SW 30 15N 5E
	NW NW 5 16N 4E		NW SW 35 14N 4E
	NW SW 15 16N 4E		SE SE 3 13N 4E
Arthur Courtemanche Excav.			NW SE 15 16N 4E
John McDonald & Sons			11&14 16N 4E
Sargent Sand Co.	Gravel Flats		Industrial Sand

BENZIE

81st - \$18,000 (+600%): Sand and gravel, Marl

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

BERRIEN

31st - (W) (-): Sand and gravel, Industrial Sand, Marl

Arrowhead Silica Corp.	SW5,NW 8 6S 19W		Industrial Sand
Crosby Marl Co.	8 8S 20W		Marl
Ireland & Lester	NW NW 24 4S 19W		Sand and gravel
Kiell Excavating	SE 15 7S 17W		" " "
Martin's Marl Pit	21 8S 20W		Marl
Manley Sand Div. Martin-Marietta	18 6S 19W		Industrial Sand
George Miller & Sons, Inc.	St. Joseph		Sand and gravel
Ryno Gravel Co.	NE 27 3S 17W		" " "
Rieth-Riley Const. Co.	SE NE 18S 18W		" " "
Alden White Bldg. Contractor	Watervliet		" " "
John G. Yerington	NE SW 6 6S 17W		27 7S 18W
			35 6S 18W

BRANCH

70th - (W) (-): Sand and gravel, Marl

Bundy Hill Gravel Co.	SE SE 22 6S 6W	Sand and gravel
	W $\frac{1}{2}$ NW 26 6S 6W	" " "
Taylor & Son	SW SW 4 8S 6W	Marl
	NW NW 16 8S 5W	"
Thompson Constr. Co.	SE 20 6S 6W	Sand and gravel
Wallace Waterbury Gravel Co.	SE NE 33 5S 6W (HMS)	" " "
John G. Yerington	SW SW 12 6S 6W	" " "

CALHOUN

20th - (W) (-): Petroleum, Natural Gas, Sand and Gravel, Marl

Henry Balkema Gravel	NW SE 28 2S 7W	Sand and gravel
Calhoun Co. Road Comm.	5 4S 7W SW 9 3S 7W	" " "
	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	SW NW 25 4S 6W	Sand and gravel
	NE 17 3S 4W	" " "
	NE NE 34 3S 6W	" " "
Emil Combs Grav. & Ready-Mix	SW SE 18 3S 4W	" " "
Hoffman Brothers	11 2S 8W	" " "
George Miller	NE SE 5 4S 7W SE SW 5 2S 4W	" " "
Pickett & Schreur	2 1S 7W	" " "
Rieth-Riley Const. Co.	S $\frac{1}{2}$ SW 7 3S 5W	" " "
	42S 7W	" " "
	NE NW 16 2S 7W	" " "
	23 1S 7W	" " "
	23 1S 7W	" " "
	NE NW 16 2S 7W	" " "
	SE SW 4 2S 6W	" " "
	and various	" " "
Harlan Spoor	NE 21 4S 7W	Marl
John G. Yerington	SE SE 32 2S 5W	Sand and gravel
	NW NW 35 3S 6W	" " "

CASS

63rd - (W) (-): Sand and gravel, Marl

Barnett Bros.	15 5S 16W	Marl
Cass Co. Road Comm.	NW SE 19 6S 16W	Sand and gravel
	SW NW 24 6S 15W	" " "
	NE SE 16 6S 15W	" " "
Indiana Hwys. Materials, Inc.	NW SW 1 8S 16W	" " "
Nieb Concrete Prod.	SW NW 16 7S 16W	" " "
Pickett & Schreur	NW SE 10 35N 16W	" " "
Pipher's Marl Svc.	NE 9 8S 13W	Marl
Poehlman & Sons	13 7S 16W	"
Rieth-Riley Const. Co.	NW SE 10 5S 16W	Sand and gravel
White Pond Gravel Co.	NW NW 23 6S 15W	" " "
John G. Yerington	NW SE 10 5S 16W	" " "

CHARLEVOIX

12th - (W) (+13%): Cement, Stone for cement mfg., Sand and gravel

Norman Bartlett	NE SW 30 32N 6W	Sand and gravel
Emmet Co. Road Comm.	NW SE 12 34N 7W	" " "
Hodgkiss & Douma Inc.	SW SE 1 34N 7W	" " "
Lilak & Moore	SW NW 4 33N 8W	" " "
Medusa Portland Cement Co.	SW 28 34N 8W	Cement, sand and gravel
D. L. Smith Sand & Gravel	NE NW 28 32N 7W	Sand and gravel

CHEBOYGAN

73rd - (W) (+8%): Stone, Sand and gravel

Afton Stone & Lime	N $\frac{1}{2}$ SE 6 34N 1E	Limestone, crushed
Charlevoix Lime & Stone Co.	SE 25 35N 2W	Limestone, crushed
Dean & Son	S $\frac{1}{2}$ NW 33 37N 2W	Sand and gravel
Hugh Mason & Sons	35 33N 3W	" " "
State of Michigan	NW NE 32 38N 1E	" " "
Mich. State Hwy. Dept.	(contractor)	" " "
Onaway Stone Co.	NW NW 6 34N 1E	Dimensional Limestone

CHIPPEWA

22nd - (W) (-19.1%): Stone, Sand and gravel

Bethlehem Mines Corp.	E $\frac{1}{2}$ SW 36 42N 4E	Dolomite, crushed
State of Michigan	SE NW 3 41N 6E	Sand and gravel
Anthony J. Montero	NW NW 24 47N 1W	" " "
C. G. Sanderson	NW NW 24 47N 1W	" " "
I. L. Whitehead Co.	Lutz Pit	" " "
	S $\frac{1}{2}$ NW 12 43N 1E	" " "
	SE SE 10 44N 1W	" " "
	NE NE 23 47N 1W	" " "
	NW NE 24 45N 1E	" " "
	SE SE 1 46N 6W	" " "
	NE NE 30 44N 5W	" " "

CLARE

39th - \$1,390,040 (-14.3%): Petroleum, Natural Gas, Sand and gravel, Natural Gas Liquids

Clare Co. Road Comm.	Various	Sand and gravel
Hubscher & Son, Inc.	4 16N 3W	" " "

CLINTON

51st - \$806,945 (+14.6%): Sand and gravel, Shale (for clay products)

Boichot Concrete Prod.	NW NW 27 5N 2W (HMS)	Sand and gravel
	NE SW 3 5N 2W	" " "
Central Mich. S. & G. Co.	11 7N 1W	" " "
Clinton Co. Road Comm.	Various	" " "
Leo M. Fedewa	St. Johns	" " "
Grand Ledge Clay Prod.	SE 34 5N 4W	Shale (for tile mfg.)
Harman Sand & Gravel	NE NW 33 5N 4W	Sand and gravel
Pryor Bros. Gravel Co.	SE SE 29 5N 4W	" " "
	NW SW 17 5N 3W	" " "
	NE NW 33 5N 4W	" " "

CLINTON (con't.)

Spartan Aggregates	(unknown)	Sand and gravel
Standard Redi-Mix, Inc.	(unknown)	" " "
Tod Gravel Co.	Ovid	" " "
Walling Gravel Co.	SE NW 34 8N 2W	" " "

CRAWFORD

36th - \$1,904,361 (+8.6%): Petroleum, Natural Gas, Sand and gravel, Natural Gas Liquids

Jack Millikin	5 27N 3W	Sand and gravel
State of Michigan	NE NE 16 25N 3W SW NE 9 25N 4W	" " "
	SW NE 15 28N 4E SE NE 25 27N 3W	" " "
	SW NW 27 25N 2W	" " "
Michigan State Hwy. Dept.	(contractor)	" " "

DELTA

66th - \$258,500 (+7.0%): Sand and gravel, Stone

Bichler Gravel Co.	NE 12 29N 12W	Sand and gravel
	E½ NE 14 40N 23W	" " "
	SW 1 39N 23W	Limestone, crushed
Caspian Constr. Co.	(unknown)	Sand and gravel
Delta Co. Road Comm.	SE SW 11 29N 21W	Limestone, crushed
	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	" " "
	15 40N 22W	" " "
Gunnar F. Holmberg	Bark River	" " "
Marvic & Sons	(contractor)	" " "
Mich. State Hwy. Dept.		" " "

DICKINSON

6th - \$28,602,296(+2.8%): Iron Ore, Stone, Sand and gravel

Aggregate Specialties, Inc.	NW NW 26 42N 30W	Feldspar
	SE SW & SW SE 30 42N 29W	Amphibolite
Caspian Const. Co.	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	" " "
Felch Quarry Corp.	SE SW 26 42N 28W	Marble, crushed
Groveland Mine (M. A. Hanna Co.)	Open pit 31 42N 29W	Iron Ore
Lindberg & Sons	SW SW 5 40N 30W	Sand and gravel
Miller Products & Supply Co.	NW SW 7 40N 30W	Fill sand

EATON

54th - \$778,682 (-29.2%): Sand and gravel, Stone, Shale (for clay products), Peat

Briggs Ready Mix and Gravel	SE 13 2N 5W (HMS)	Sand and gravel
Cheney Limestone Co.	NE 29 1N 6W	Limestone, crushed
Crandell Trucking Co.	NW 9 2N 4W	Sand and gravel
Grand Ledge Clay Products	SE 3 4N 6W	Shale (for tile mfg.)
Hilu Peat Co.	Charlotte	Peat (humus)
Pickett & Schreur	SE SW 3 1N 4W	" " "
Pryor Brothers	NE NE 1 4N 5W	Sand and gravel
Rieth-Riley Constr. Co.	E½ SW 9 3N 3W	" " "
	NW SW 8 2N 4W	" " "

EATON (con't.)

Spartan Aggregates, Inc.	NW NW 3 2N 4W	Sand and gravel
	SE SE 15 3N 4W	" " "
Vermontville Gravel Co.	NE NE 29 1N 6W	" " "
Whittum's Gravel Co.	SE NE 5 1N 3W	" " "

EMMET

17th - (W) (+37.9%): Cement, Stone, Sand and gravel

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	" " "
Mich. State Hwy. Dept.	(contractor)	" " "
Northern Concrete Products Co.	2 34N 6W	" " "
Penn-Dixie Cement Corp.	2 34N 6W	Cement
	3 34N 6W	Limestone, sand and gravel (for cement)
Pickett & Schreur Inc.	Various	Sand and gravel

GENESEE

48th - \$986,151 (+56.0%): Sand and gravel, Petroleum

Cliffs Gravel Co.	SW SW 19 8N 6E	Sand and gravel
Ferguson Excavating Co.	N½ 18 & S½ 7 8N 8E	" " "
Genesee Gravel Co.	SW SE 7 8N 8E	" " "
	SE NE 6 7N 6E	" " "
Holloway Sand & Gravel Co., Inc.	NW SW 10 6N 5E	" " "
Kurtz Gravel Co.	SE NW 20 7N 8E SE SW 1 8N 7E	" " "
Mich. State Hwy. Dept.	(contractor)	" " "
Mathews Gravel Co.	(unknown)	" " "
Molesworth Contr. Co.	Holly pit	" " "
Neuman Sand & Gravel	W½ 23 8N 5E	" " "
Otisville Stone Co.	N½ 15 9N 8E	" " "
Snellenberger Gravel Co.	SE 16 9N 5E	" " "

GLADWIN

49th - \$911,012 (-5.2%): Petroleum, Sand and gravel

Jess Stanley Gravel	SE SE 13 20N 2W	Sand and gravel
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GOGEBIC

77th - (W) (): Sand and gravel

Caspian Constr. Co.	SW NE 34 45N 39W	Sand and gravel
	NE SW 4 46N 42W	" " "
Globe Ready-Mix	NW NE 10 47N 47W	" " "
Gogebic Co. Road Comm.	Various	" " "
City of Ironwood	NE NE 3 46N 47W	" " "
State of Michigan	SW SE 8 48N 46W	" " "

GRAND TRAVERSE

80th - (W) (-75.2%): Sand and gravel, Petroleum

Lamar Gravel Co.	25 26N 11W	Sand and gravel
I. W. Schworm & Son, Inc.	Traverse City	" " "

GRATIOT

5th - (W) (+12.6%): Bromine, Magnesium Compounds, Ca-Chloride & Ca-Mg Chloride, Salt, Sand and gravel, Sulfur, Petroleum, Natural Gas

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	" " "
	NE SE 31 12N 1W SW SE 2 9N 1W	" " "
	3 10N 4W	" " "

Hubscher & Son	Alma	Sulfur
Leonard Refineries	St. Louis	Bromine, Calcium-
Michigan Chemical Corp.		Magnesium Chloride,
		Magnesium Compounds,
		Salt

P. & B. Gravel	NW SE 9 10N 1W	Sand and gravel
Roslund Gravel Co.	NW NE 36 12N 3W	" " "

HILLSDALE

14th - (W) (-): Petroleum, Natural Gas Liquids, Natural Gas, Sand and gravel, Marl

Bundy Hill Gravel Co.	NE 7 & NW 8 5S 1W (HMS)	Sand and gravel
Cole Brothers	35 7S 3W	" " "
John Hess	14 5S 3W	Marl
Hoover Brothers	NE SE 23 8S 2W	Sand and gravel
Jackson Sand & Gravel	Reading	" " "
Northwest Materials, Inc.	Thompson Pit	" " "
Quality Aggregate Co.	SW SW 3 7S 2W	" " "

HOUGHTON

67th - \$200,245 (+68.1%): Sand and gravel, Stone

Fox Valley Constr. Co.	SW NW 12 55N 34W	Sand and gravel
George Hocking Constr. Co.	South Range	" " "
Houghton Co. Road Comm.	NW 21 54N 34W	Crushed basalt
	NW SE 30 52N 36W	" " "
	C SE 10 54N 34W	" " "
Limestone Mountain Co.	NW SW 24 51N 35W	Dolomite, crushed
Mich. State Hwy. Dept.	(contractor)	Sand and gravel
Superior Sand and Gravel	NE SW 27 55N 34W	" " "

HURON

41st - \$1,276,337 (+15.5%): Stone, Lime, Sand and gravel, Petroleum

Brade Ready-Mix		
Huron Co. Road Comm.	SE SE 17 16N 13E	Sand and gravel
Michigan State Hwy. Dept.	(contractor)	" " "
Michigan Sugar Co.	Sebewaing	Lime (for sugar Mfg.)
Vollmer Sand & Gravel	NE SE 20 15N 11E	Sand and gravel
Wagner Ready-Mix	E½ E½ SW 27 16N 15E	" " "
	SW SW 22 16N 15E	" " "
	SE 29 16N 13E	" " "
Wallace Stone Co.	SW NE 5 16N 10E	Limestone, crushed and dimensional

INGHAM

35th - (W) (+): Petroleum, Sand and gravel, Peat

Barr Sand & Gravel, Inc.	SE SW 25 2N 1W	Sand and gravel
Board of Water & Light	Lansing	Lime, regenerated
Fiser Supply Co.	SW SE 34 4N 2W	Sand and gravel
Ketchum Gravel & Ready-Mix, Inc.		
Rieth-Riley Constr. Co.	Various	Sand and gravel
Scarlett Gravel Co.	NE NW 25 3N 2W	" " "
Sky-Way Sand & Gravel	NE NE 23 3N 2E (HMS)	" " "
Spartan Aggregates	NE NE 15 3N 1E	" " "
Standard Ready-Mix		
Ronald Weaver Gravel Co.	NE SE 24 2N 2W	Sand and gravel
	SE SW 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

64th - \$315,000 (-43.2%): Sand and gravel

Cole Bros.	SW NW 19 8N 5W	Sand and gravel
Ionia Co. Road Comm.	NW NE 33 7N 7W SE SE 8 6N 5W	" " "
	SE NE 24 5N 7W SE SW 18 5N 5W	" " "
	NE SW 15 7N 5W NW SW 27 6N 5W	" " "
Pickett & Schreur, Inc.	25 7N 6W	" " "
Williams Bros.	½ SE 32 7N 7W	" " "

IOSCO

21st - (W) (+): Gypsum, Sand and gravel

R. E. Glancy, Inc.	SE SW 10 24N 5E	Sand and gravel
Iosco Co. Rd. Comm.	Various	" " "
State of Michigan	SE SW 10 24N 5E	" " "
Michigan Gypsum Co.	SW 25 21N 5E NW NW 31 21N 6E	Gypsum
National Gypsum Co.	26&35 22N 6E	"
U. S. Gypsum Co.	22&27 21N 7E	"

IRON

19th - (W) (-): Iron Ore, Sand and gravel

Caspian Constr. Co.	NW NE 31 43N 35W	S½ SW 22 43N 35W	Sand and gravel
Inland Steel Co.:			
Sherwood Mine		23 43N 35W	Iron Ore
Iron Co. Road Comm.		22 43N 34W	Sand and gravel
		NE NE 18 43N 32W	" " "
		NE NW 14 42N 35W	" " "
		SE SW 25 44N 34W	" " "
McMahon Bros.		Iron River	" " "

ISABELLA

52nd - (W) (-): Petroleum, Sand and gravel, Natural Gas

Cousineau Gravel, Inc.		2 pits	Sand and gravel
Fisher Sand & Gravel Co.		NW 12 14N 3W	" " "
Hubscher & Son		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	" " "
James R. McGuirk & Sons		Mt. Pleasant	" " "

JACKSON

25th - \$3,537,094 (-19.0%): Petroleum, Natural Gas, Sand and gravel, Stone, Marl

Barnes Brothers		Concord (John Pung pit) Marl	
		Horton (DeMack pit)	"
Jeffrey Limestone Co.		SE 30 2S 2W	Sand and gravel
Klump Bros. Gravel Co.		SE SE 1 2S 2E	" " "
Mich. State Hwy. Dept.		(contractor)	" " "
Palmer Sand & Gravel		SW NW 8 3S 1E	" " "
Pickett & Schreur, Inc.		34 3S 3W	" " "
		24 3S 3W	" " "
Willson Bros., Inc.		Rives Junction	" " "

KALAMAZOO

38th - (W) (-): Sand and gravel, Marl, Peat

American Aggregates Corp.		SW 15 1S 11W	Sand and gravel
Balkema Sand & Gravel		SE SE 17 2S 10W	" " "
Cole Bros.		NW NE 7 2S 9W	" " "
Consumers Sand and Gravel		SE NE 13 2S 11W	" " "
Craven's Peat Farm		SW SW 3 3S 10W	Peat (reed-sedge)
Green, Samuel		31 3S 12W	Peat
Hayward Dry Marl		8 4S 10W	Marl
Kalamazoo Co. Road Comm.		NE NW 22 1S 11W	Sand and gravel
Mills & Sons		NW 20 1S 11W	" " "
Peters Constr. Co.		SW NE 7 2S 11W	" " "
		NW SE 5 4S 12W	" " "
Pickett & Schreur Inc.		Welling, Byrnes pits	" " "
		SW NW 27 1S 11W	" " "
Fred Rumz		30 4S 10W	Marl
Stony Lake Sand & Gravel		NE NE 22 1S 9W	Sand and gravel
Alfred Thomas		NW NW 30	Fill sand

KALKASKA

44th - \$1,104,644 (+212%): Petroleum, Natural Gas, Sand and gravel

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	" " "
State of Michigan	SW NW 16 26N 8W	NE SW 16 26N 8W	" " "

KENT

22nd - \$5,104,691 (+14.5%): Sand and gravel, Gypsum, Petroleum, Peat, Natural Gas

Emerson Chaney		S½ N½ SE 11 7N 11W	Peat (moss)
Coit Ave. Gravel Co.		29 8N 11W	Sand and gravel
Contractor's Gravel Co.		Sparta	" " "
Ed DeVries & Sons		NE 22 7N 12W	" " "
Georgia-Pacific Corp.		NW 24 6N 11W	Gypsum
Great Lakes Gravel Co.		NW NE 31 7N 10W	Sand and gravel
Grand Rapids Gypsum Co.		34 7N 12W	Gypsum
Grand Rapids Gravel Co.		E½ NW & SW NE 16 6N 12W	Sand and gravel
		SW SE 23 8N 11W	" " "
		SW SW 33 7N 12W	" " "
		SE SE 32 7N 12W	" " "
		SE SW 8 6N 12W	SW SE 23 8N 11W
Katerberg Landscape Service		Grand Rapids	Peat (humus)
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
			NE SW 19 8N 11W
			NE SW 24 8N 11W
			SW SW 12 8N 11W
Paul C. Miller		NE NE 25 9N 11W	SW SE 23 8N 11W
Northeast Gravel & Excavating		SE NE 35 9N 11W	W½ NE 32 8N 11W
Petersen Gravel & Excavating		19 7N 9W	NE NE 10 6N 9W
Pickett & Schreur Inc.		7 6N 10W	NE NW 6N 9W
		SW NW 1 8N 9W	28th Street
		N½ NW 24 10N 11W	Bliss
		NE 20 7N 10W	Cannonsburg
		Finkler	Cascade
Rieth-Riley Constr. Co.		NW 21 7N 10W	NW SW 21 7N 10W
Riverside Sand and Gravel			SE SE 33 7N 12W
Rock, Sand & Gravel Co.			4 & 9 1N 12W
Twin Lakes Nursery			NE NW 26 7N 11W
Velting Contractors, Inc.		Grand Rapids	Peat (reed-sedge) & moss
			Sand and gravel

KEWEENAW

82nd - \$5,000 (-76.2%): Sand and gravel

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

55th - \$628,997 (-8.2%): Petroleum, Sand and gravel

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

LAPEER

42nd - (W) (+): Peat, Petroleum, Sand and gravel, Ca-Mg Chloride, Natural Gas

Anderson Peat Co.	NE SE 23 7N 12E	Peat
Attica Aggregate Corp.	17 7N 11E	Sand and gravel
Corey & Hartwig	SW 20 7N 10E	" " "
Lapeer Co. Road Comm.	NW SW 21 7N 11E	" " "
	SE NE 18 9N 11E	" " "
	NW 27 9N 12E	" " "
	NE NE 1 9N 10E	Ca-Mg Chloride
Molesworth Contr. Co.	SE SE 21 7N 11E	Sand and gravel
St. Clair Co. Road Comm.	SE SE 27 9N 12E	" " "
Solliere Peat & Sod Co.	NW NW 5 6N 11E	Peat (reed-sedge)
Wilkinson Chemical Co.	SW SW 25 7N 12E	Ca-Mg Chloride
	SW SW 20 8N 10E	" " "

LEELANAU

65th - (W) (+): Sand and gravel

Leelanau Co. Road Comm.	SW SW 22 28N 13W	Sand and gravel
Peninsula Asphalt & Constr. Co.	NE NW 16 28N 13W	" " "
Schworm & Son	SE NE 28 30N 12W	" " "
Traverse City Sand & Gravel	(unknown)	" " "

LENAWEE

45th - (W) (+): Sand and gravel, Clay (for clay products), Natural Gas, Petroleum

Adrian Sand and Gravel (Tecumseh Materials, Div.)	SE 16 7S 3E	Sand and gravel
Brady Sand and Gravel	NE SE 4 6S 4E	" " "
J. V. Burkett Constr.	SE SE 4 6S 4E	" " "
Comfort Brick & Tile Company	SW 2 6S 5E	Clay (for clay products)
O. E. Gooding	SE NW 19 5S 4E	Sand and gravel
Klumpp Bros.	SE NW 8 5S 1E	" " "
Holloway	NW 19 5S 1E	" " "
Stamm Brothers Gravel Co.	SW NE 19 7S 3E	" " "
Standard Gravel Co.	NW 5 5S 4E	" " "
Tecumseh Gravel Co.	SW NE 4 6S 4E	" " "
John G. Yerington	30 7S 3E	" " "

LIVINGSTON

29th - \$2,936,000 (-12.2%): Sand and gravel

Albert Gravel Co.	NW SE 6 3N 3E	Sand and gravel
American Aggregates Corp.	NE NE 11 1N 6E (HMS)	" " "
	NE 24 2N 6E (HMS)	" " "
Bennett Excavating & Gravel Co.	33 & 34 1N 5E	" " "
D. & J. Gravel Co.	SE SW 32 3N 4E	" " "
Fenton Gravel Co.	NE SE 2 4N 6E	SW NE 2 1N 3E
Tom Houghton	NE 13 3N 4E	" " "

LIVINGSTON (con't.)

Livingston Co. Road Comm.	SW NE 30 1N 6E	Sand and gravel
	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	10 2N 6E	" " "
Natural Aggregates Corp.	SE SE 23 2N 6E	" " "
Spartan Aggregates, Inc.	7 3N 3E	" " "

LUCE

78th - (W) (+): Sand and gravel

Gene Brow Constr.	Newberry	Sand and gravel
Luce Co. Road Comm.	SE NE 14 45N 10W	" " "

MACKINAC

18th - \$8,904,318 (-18.5%): Stone, Sand and gravel

Inland Lime & Stone Co.	4-9 42N 12W	Limestone, crushed
	31, 32 43N 12W	" " "
Mackinac Co. Road Comm.	SW SE 5 42N 1W	Sand and gravel
	NW NW 17 44N 12W	" " "
	SE NE 25 42N 5W	" " "
	SE NW 13 40N 4W	" " "
	C 16 43N 10W	" " "
	NW NW 18 43N 11W	" " "
State of Michigan	S 1/2 SE 5 42N 1E	" " "
	NW SE 31 43N 10W	" " "
	SW SE 5 42N 1W	" " "
Mike Mangene, Inc.	10 42N 1E	Limestone, crushed
Mich. Limestone Operation, U. S. Steel, Cedarville Quarry	SW SE 10 43N 4W	Sand and gravel
I. L. Whitehead Co.	SW SE 5 43N 11W	" " "
	SW NW 13 40N 4W	" " "
	NE SE 32 44N 7W	" " "

MACOMB

30th - \$2,611,190 (-36.0%): Sand and gravel, Natural Gas, Petroleum

Advance Bldg. Materials Co.	NE NW 8 4N 12E	Sand and gravel
American Aggregates Corp.	SW NW 4 4N 12E (HMS)	" " "
George S. Carter Co., Inc.	Romeo	" " "
Great Lakes Gravel Co.	NW NW 31 3N 12E	" " "
Macomb Co. Road Comm.	Various	" " "
Macomb Sand & Gravel	SW SW 30 3N 12E	" " "
Mich. State Hwy. Dept.	(contractor)	" " "
Molesworth Contracting Co.	Carter Pit	" " "
Morgan Sand & Gravel	31 3N 12E	" " "
Natural Aggregates Corp.	NW NE 8 4N 12E	" " "
Peake Asphalt Paving Co., Inc.	Utica	" " "
Whitehall Farms	NE NW 21 4N 14E	" " "

MANISTEE

7th - \$26,594,079 (-1.8%): Salt, Mg-Compounds, Bromine, Sand and gravel

Gronlund Gravel Co.	SW NW 35 24N 13W	NE SE 7 23N 14W NE 14 21N 13W SE 6 23N 14W	Sand and gravel " " " " " "
Manistee Salt Div., Hardy Salt Co.	Manistee		Salt, evaporated
Martin-Marietta Chemical Co. Refractories Div.		SE 18 21N 16W	Magnesium compounds
Michigan Chemical Corp.		NW 7 21N 16W	Bromine
Morton Chemical Co.		12 21N 17W	Bromine, Magnesium Compounds
Morton Salt Co.	Manistee		Salt
Sand Products Corp.		N $\frac{1}{2}$ 11 21N 17W	Industrial Sand
Sievert Bros. Contractors		31 21N 16W	Sand and gravel

MARQUETTE

1st - \$132,636,919 (-2.5%): Iron Ore, Sand and gravel, Stone, Iron oxide pigments

Bacco's	33 & 34	47N 26W	Sand and gravel
Caspian Constr. Co.	SW SW 5	47N 26W NW NE 28 45N 25W NE SW 29 45N 25W NW NE 26 48N 30W	" " " " " " " " " " " "
Champion, Inc.			
Cleveland-Cliffs Iron Co.:			
Empire Open Pit Mine		19 47N 26W	Iron Ore
Mather Mine		1 47N 27W	" "
Republic Open Pit Mine		7 46N 29W	" "
Tilden Open Pit Mine		26 47N 27W	" "
Fox Valley Constr.Co.	SE NE 16	47N 26W	Sand and gravel
Ken Hodgins & Son	Marquette		" " "
City of Ishpeming	Ishpeming		" " "
Lake Superior & Ishpeming R. R.	(unknown)		" " "
A. Lindberg & Sons, Inc.	SE SW 32	48N 26W 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	" " "
State of Michigan		N $\frac{1}{2}$ SW 5 46N 23W	" " "
Mills Bros. Construction Co.		NW NE 26 48N 30W	" " "
City of Negaunee	Negaunee		" " "

MASON

11th - \$18,885,493 (W): Magnesium Compounds, Lime, Ca & CaMg Chlorides, Bromine, Sand and gravel, Petroleum

Cousineau Gravel, Inc.	Bass Lake & Ruby Creek pits		Sand and gravel
The Dow Chemical Co.	NW SW 23	18N 18W	Bromine, Calcium- Chloride, Magnesium Compounds, Lime
Harbison-Walker Refractories	NE SE 23	18N 18W	Magnesium compounds
Mason Co. Road Comm.	NW NW 27 20N 17W	SE SE 18 19N 15W	Sand and gravel
	NE NW 10 18N 17W	SW SW 11 18N 15W	" " "
	SW NW 24 17N 18W	SE SW 34 17N 15W	" " "
Mich. State Hwy. Dept.	(contractor)		" " "
Sargent Sand Co.		SW 33 19N 18W	Industrial sand
Towns Trucking Co.		SW NW 20 17N 17W(2 pits)	Sand and gravel
	4 20N 15W	13 17N 18W	" " "
	19 18N 17W	1 18N 18W	" " "

MECOSTA

59th - (W) (-): Petroleum, Sand and gravel, Natural Gas, Peat

Cousineau Gravel, Inc.	NW NE 27 16N 10E	NW NE 35 15N 8W	Sand and gravel
	SW SW 24 15N 10E	NW NE 28 14N 10W	" " "
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	" " "
State of Michigan		SW SE 12 15N 8W	" " "
Paris Gravel Co.		NW NE 27 16N 10W	" " "

MENOMINEE

56th - (W) (-26.7%): Lime, Sand and gravel

B. & K. Sand and Gravel		26 34N 27W	Sand and gravel
Limestone Products Div., The C. Reiss Coal Co.	Menominee		Lime
Menominee Co. Road Comm.	SE NE 33 35N 26W		Sand and gravel
	NE NE 9 39N 25W	SE SE 4 39N 25W	" " "
State of Michigan	N $\frac{1}{2}$ NE 36 36N 25W	SE SW 14 37N 28W	" " "
Wurth Concrete & Aggregates	Menominee		" " "

MIDLAND

3rd - \$55,514,602 (W): Bromine, Salt, Mg Compounds, Ca & CaMg Chlorides, Iodine, Petroleum, Sand and gravel, Potash

The Dow Chemical Co.	Midland		Bromine, magnesium Compounds, Calcium Chloride, Salt, Iodine
Fisher Sand & Gravel Co.	NE NW 19 14N	2E	Sand and gravel
Kaiser Aluminum & Chemical Co.	Midland		Magnesium compounds
Midland Co. Road Comm.	(various)		Sand and gravel

MISSAUKEE

33rd - (W) (-): Petroleum, Sand and gravel, Natural Gas

State of Michigan	NE SW 13 23N	8W	Sand and gravel
Michigan State Hwy. Dept.	(contractor)		" " "
Missaukee Co. Road Comm.	(contractor)		" " "
Pickett & Schreur, Inc.	SE NE 5 21N	5W	" " "
Max Wiggins & Sons	(unknown)		" " "

MONROE

8th - \$23,254,659 (+20.7%): Cement, Stone, Clay, Petroleum, Peat, Sand

Appleman Peat Co.	E $\frac{1}{2}$ SW 17	7S 7E	Peat (humus, reed- sedge)
Carleton Sand Co.	(unknown)		Sand
Detroit Edison Co.		20 6S 10E	Dolomite, crushed
Dundee Cement Co.	NE NE 1	6S 6E	Cement
	NE 1	6S 6E	Limestone & clay
	NW 6	6S 7E	" "

MONROE (con't.)

France Stone Co.									
Monroe Quarry		7	7S	9E					Dolomite, crushed
Ida Quarry		13	6S	7E					" "
Norman E. Link					Petersburg				Peat (humus)
Michigan Stone Co.									
Maybe Quarry		29	5S	8E					Dolomite, crushed
Ottawa Lake Quarry		SW 25	8S	6E					" "
F. W. Ritter & Sons, Co.		SE 16	5S	10E					Clay, pottery

MONTCALM

57th - (W) (-): Petroleum, Sand and gravel

Anderson Gravel Co.					Unknown				Sand and gravel
Dyer Co.	NE NW 35	9N	8W	SW SE 29	12N	7W			" " "
	NW SW 4	11N	10W	SE SE 8	12N	5W			" " "
	NE 7	11N	5W	NE 13	10N	6W			" " "
				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

83rd - \$2,000 (-96.3%): Sand and gravel

R. E. Glancy, Inc.				NE NE 4	29N	1E			Sand and gravel
State of Michigan	SE SE 23	29N	3E	NW NE 34	32N	2E			" " "
Montmorency Co. Road Comm.				Various					" " "

MUSKEGON

32nd - (W) (+): Salt, Sand and gravel, Petroleum

Hooker Chemical Co.				30	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			Industrial Sand
Whitehall Gravel Co.				W½ NE 27	12N	17W			Sand and gravel
John G. Yerington				31 & 32	10N	13W			" " "

NEWAYGO

73rd - (W) (-): Sand and gravel, Petroleum

J. V. Burkett				NE 4	13N	12W			Sand and gravel
Cousineau Gravel, Inc.				NW SW 16	11N	11W			" " "
				SE 4	13N	12W			(2 pits) " " "
				NE SE 16	11N	13W			" " "
				NW 16	16N	12W			" " "
Howard Eichenberg Contr.				26	14N	15W			" " "
K-V Gravel Co.				NE NW 21	12N	12W			" " "
Paul C. Miller				S½ NE 34	12N	13W			" " "
John G. Yerington				SW NE 34	12N	13W			" " "
				NE NW 26	15N	11W			" " "

OAKLAND

13th - \$ 3,505,122 (+27.4%): Sand and gravel, Peat, Petroleum

American Aggregates Corp.				NE NW 22	5N	10E (HMS)			Sand and gravel
American Stone Products				SE 22	4N	9E			" " "
Richard Beagle Sand & Gravel				NW SE 5	3N	11E			" " "
Dan's Peat Farm				SE SW 12	1N	8E			Peat (moss)
Faulkender Sand & Gravel, Inc.				(unknown)					Sand and gravel
Fletcher & Richard				New Hudson					Peat (humus)
Holloway Sand & Gravel Co., Inc.				Hass & Warren pits					Sand and gravel
Holly Sand & Gravel D. O.				NE SE 32	5N	8E (HMS)			" " "
Jennings, Inc.				S½ 19	5N	8E			" " "
John R. Sand and Gravel Co.				SE 4	4N	10E			" " "
Kemler Brothers				SW SW 36	5N	11E			" " "
Koenig Coal & Supply Co.				NW 1	33N	8E			" " "
				SW SE 24	5N	10E (HMS)			" " "
Lyon Sand & Gravel Div.				NW NE 13	1N	7E (HMS)			" " "
Marby & Melton				SE SW 30	3N	11E			" " "
Mickelson Corp.				NE SE 20	5N	10E (HMS)			" " "
Molesworth Contracting Co.				(various pits)					" " "
New Hudson Sand & Gravel				NW NE 33	2N	7E			" " "
Oakland Sand Inc.				NE SW 25	2N	7E			" " "
Oxford Mining Co.				E½ NW 26	4N	8E			" " "
Portable Aggregate Producers, Inc.				Troy					" " "
Salem Gravel & Contr. Co.				E½ NE 2	4N	9E			" " "
South Flint Gravel Co.				1	5N	7E			" " "
Spartan Aggregates, Inc.				Kurtz pit					" " "
Teleschak Sand & Gravel, Inc.				27	4N	9E			" " "
Thorp & Kosiba Sand & Gravel				Pontiac					" " "
Underwood Sand & Gravel				SW 2	3N	10E			" " "
				SE 11	3N	8E			" " "
Charles Van Every				Novi					" " "
Weber's Sand & Gravel				W½ 26 & E½ 27	4N	10E			" " "

OCEANA

63rd - \$401,140 (-20.9%): Petroleum, Sand and gravel

Beckman Brothers				SW NW 19	15N	16W		SW SW 36	15N	17W			Sand and gravel
				SW NE 12	14N	17W		NE NW 18	14N	16W			" " "
								NE SW 24	14N	17W			" " "
Paul C. Miller								SE 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 15	15N	16W			" " "
Syers Gravel Co.								NW SW 3	13N	15W			" " "
Towns Trucking Co.								NE SW 34	15N	16W			" " "

OGEMAW

37th - (W) (-): Petroleum, Sand and gravel, Natural Gas

Gil Brown Constructors, Inc.				NE SE 6	22N	2E			Sand and gravel
Bunting Bros.				NE NE 6	21N	2E			" " "
Bob Glancy Co.				NE NE 6	21N	2E			" " "
Holloway Sand & Gravel Co., Inc.				NW NE 12	21N	1E			" " "
Mich. State Hwy. Dept.				(contractor)					" " "
Ogemaw Co. Road Comm.				NW NW 2	23N	2E			" " "
				SW 5	22N	2E			" " "
George Peters Sand & Gravel				SW SW 26	24N	3E			" " "
West Branch Concrete Products				NE SE 6	21N	2E			" " "

ONTONAGON

2nd - \$59,357,576 (-25.4%): Copper, Silver, Sand and gravel

Fox Valley Constr Co.		NE SW 9 51N 37W	Sand and gravel
State of Michigan	NW SE 31 43N 10W	NE SE 14 47N 39W	" " "
	SE NE 24 47N 40W	NE SE 24 51N 38W	" " "
Michigan State Hwy. Dept.		(contractor)	" " "
Ontonagon Co. Road Comm.		SE 7 49N 42W	" " "
White Pine Copper Co.:			
White Pine Mine		4, 5, 9 50N 42W	Copper & Silver

OSCEOLA

28th - \$3,189,895 (+38.8%): Petroleum, Sand and gravel, Natural Gas Liquids, Natural Gas

J. P. Burroughs & Son, Inc.:			
Hersey Sand & Gravel Div.		NW SW 20 17N 9W (HMS)	Sand and gravel
Cousineau Gravel, Inc.		Osceola pit, Evart	" " "
		NW NW 11 17N 9W	" " "
		Post pit	" " "

OSCODA

79th - \$39,220 (-22.0%): Sand and gravel, Petroleum

Fred Anderson & Son		SE NE 14 26N 3E	Sand and gravel
Marsh Construction Co.		SE NE 14 26N 3E	" " "
State of Michigan	SW NW 32 25N 1E	SE SW 7 27N 4E	" " "
	W $\frac{1}{2}$ SW 32 25N 9E	NW NW 36 25N 4E	" " "
		SE NE 24 28N 2E	" " "
Miller Brothers		SE SW 7 27N 4E	" " "
Oscoda Co. Road Comm.		SE SW 15 27N 1E	" " "

OTSEGO

27th - \$3,331,020 (+349%): Natural Gas, Petroleum, Natural Gas Liquids, Sand and gravel

Holloway Sand & Gravel Co., Inc.		SE 15 29N 4W	Sand and gravel
Otsego Co. Road Comm.		NW NE 29 31N 3W	" " "
		NW NW 3 31N 3W	" " "
		15 29N 4W	" " "
		17 29N 3W	" " "

OTTAWA

23rd - (W) (+): Sand and gravel, Clay, Petroleum, Natural Gas

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.		SW NE 17 8N 16W (HMS)	" " "
	NW SE 7 7N 14W	SE SW 16 8N 15W	" " "
DeWent Gravel Co.		SW SW 23 6N 13W	" " "
Grand Valley Gravel Co.		NE NE 32 7N 13W	" " "
Huizenga Gravel Co.		W $\frac{1}{2}$ NE 3 6N 13W	" " "
Paul C. Miller Co.		NW NW 4 9N 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	" " "
Pickett & Schreur, Inc.		5 5N 13W	" " "
Rieth-Riley Constr. Co.		SE NW 4 6N 13W	" " "
Riverview Gravel Co.		E $\frac{1}{2}$ 2 6N 13W	" " "

OTTAWA (con't.)

Standard Sand Co.		NW 4 7N 16W	Industrial Sand
West Shore Constr. Co.	E $\frac{1}{2}$ SW 2 6N 13W		Sand and gravel
	SW SW 2 6N 13W		" " "

PRESQUE ISLE

10th - \$19,189,944 (-2.7%): Stone, Sand and gravel, Petroleum

State of Michigan	NE SW 29 36N 2E	NW NE 28 36N 3E	Sand and gravel
	S $\frac{1}{2}$ SW 13 34N 7E	NW NE 22 34N 7E	" " "
Michigan Limestone Operation,			
U. S. Steel		SE NE 23 35N 5E	Limestone, crushed
Onaway Stone Co.		5 34N 2E	Limestone, dimensional
Presque Isle Co. Rd. Comm.	NE NE 19 33N 5E	SW SE 18 35N 2E	Sand and gravel
Presque Isle Corp.		NW 2 33N 8E	Limestone, crushed
Straits Aggregate & Equip. Corp.		NE NW 19 34N 4E	Sand and gravel

ROSCOMMON

47th - \$989,043 (+20.2%): Petroleum, Sand and gravel, Natural Gas, Natural Gas Liquids

Halliday Sand & Gravel, Inc.		NW SW 3 23N 3W	Sand and gravel
		SE SE 30 24N 3W	" " "
State of Michigan	SE NE 32 22N 3W	NW NE 33 23N 1W	" " "
	NE SE 22 23N 2W	NW NW 32 23N 4W	" " "
		SE NE 27 24N 1W	" " "
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	" " "
Steel Brothers		3 34N 3W	" " "
Whites Sand & Gravel		(unknown)	" " "

SAGINAW

60th - \$453,436 (-22%): Sand and gravel, Lime, Clay (for cement mfg.), Petroleum

Aetna Portland Cement Co.		SW 35 12N 3E	Clay (for cement mfg.)
Walter Hutfilz		(unknown)	Sand and gravel
Michigan State Hwy. Dept.		(contractor)	" " "
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

9th - \$21,548,090 (-29.7%): Salt, Cement, Natural Gas, Natural Gas Liquids, Petroleum, Clay, Sand and gravel, Peat

Diamond Crystal Salt Co.		31 5N 17E	Salt, evaporated
Michigan Peat, Inc.		Capac	Peat (reed-sedge)
Molesworth Contracting		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.)
St. Clair Co. Road Comm.		8 8N 14E	Sand and gravel
	8 7N 15E	29 8N 16E	" " "
Sheldon Contr.		Port Huron	" " "

ST. JOSEPH

68th - \$199,660 (-23.7%): Sand and gravel, Peat, Marl

Aggregate Processors, Inc.	NE 7 8S 11W	Sand and gravel
Cole Brothers	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	" " "
Keer's Peat Moss	Three Rivers	Peat (moss)
Quality Peat	Three Rivers	" "
Rieth-Riley Constr. Co., Inc.	SW SE 20 7S 10W	Sand and gravel
Roberts Bros. Marl	Ken Pit 6S 12W	Marl

SANILAC

34th - \$1,934,876 (+449%): Peat, Lime, Sand and gravel

William Albrecht, Jr.	SW SE 31 12N 13E	Sand and gravel
Cook Block Co.	NE NE 28 10N 15E	" " "
J. M. Huber Corp.	NW 11 11N 14E	Peat (moss & reed-sedge)
Michigan Peat, Inc.	Minden & Sandusky	Peat (reed-sedge)
Michigan Sugar Co.	Croswell	Lime (for sugar mfg.)
Mid-Michigan Materials, Inc.	SE SE 31 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

50th - (W) (-): Stone, Sand and gravel

Geiger Constr. Co.	14 42N 16W	Limestone, crushed
Inland Lime & Stone Co.	2 41N 13W	Dolomite, crushed
Inwood Stone Products Co.	8 41N 17W	Dolomite, dimensional
State of Michigan	SE NW 15 41N 17W	Sand and gravel
Mich. State Hwy. Dept.	(contractor)	" " "
Schoolcraft Co. Road Comm.	SE SW 7 41N 17W	" " "

SHIAWASSEE

58th - \$485,443 (-6.6%): Sand and gravel, Peat, Shale, Petroleum

Aetna Portland Cement Co.	NW NW 1 11N 3E	Clay
Al-Par Peat Co.	Ovid	Peat (reed-sedge)
Central Michigan Sand & Gravel Co.	NE 22 7N 1E	Sand and gravel
Frank Fisher	SW NW 28 8N 1E	" " "
Fred Fitzgerald Gravel Co.	NE SW 22 8N 2E	" " "
	4 & 14 8N 3E	" " "
Fuoss Gravel Co.	SE SW 4 6N 3E SE SE 17 5N 4E	" " "
	SE NW 9 6N 3E	" " "

SHIAWASSEE (con't.)

Gillette Sand & Gravel	NW 26 5N 1E	Sand and gravel
Grand River Gravel Co.	NW SE 22 6N 2E NW 25 6N 2E	" " "
Lennon Sand & Gravel	NE 27 7N 4E	" " "
Mich. Vitriified Tile Co.	SE 22 7N 3E	Shale (for tile mfg.)
Polthamus Gravel Co.	SW SE 16 7N 1E	Sand and gravel
Scenic Lakes, Inc.	Laingsburg	Peat (reed-sedge)
Shiawassee Co. Road Comm.	SE SE 20 7N 2E	Sand and gravel
Tod Gravel Co.	SW SE 13 7N 1E	" " "
Ronald Weaver Gravel Co.	NE SW 16 5N 2E	" " "

TUSCOLA

40th - (W) (-): Sand and gravel, Petroleum, Lime

Andersen Sand & Gravel	NW SW 19 11N 9E	NE NE 20 11N 9E	Sand and gravel
Bernthal Sand & Gravel		SW SE 31 12N 9E	" " "
R. J. Fox Constr. Co.		Various	" " "
Great Lakes Foundry Sand Co.		SW SW 27 12N 8E	Industrial Sand
Michigan Sugar Co.		Caro	Lime (for sugar mfg.)
Peterhans Bros. S. & G.		13 12N 8E	Sand and gravel
Powell Sand & Gravel		23 13N 7E	" " "
Sargent Sand Co.	5 10N 9E	SE 13 11N 8E	Industrial Sand
		NW 1 11N 8E	" " "
Tuckey Block Co.		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 1/2 SW 5 11N 10E	SW NE 3	" " "
	SE SE 34	SW NW 13 12N 8E	" " "
	N 1/2 NE 7	N 1/2 SW 18 12N 10E	" " "
	SE SE 10 13N 9E	NW NW 16 13N 10E	" " "
		NE NW 12	" " "
	SE SW 4 13N 11E	W 1/2 SW 22	" " "
	33 14N 10E	NE SW 34	" " "
	NE NW 24 14N 11E	SE SW 27 10N 8E	" " "

VAN BUREN

71st - \$137,971 (-20.7%): Sand and gravel, Petroleum

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	" " "
John G. Yerington	NE SE 24 3S 1W	" " "

WASHTENAW

26th - \$3,388,011 (+38.2%): Natural Gas Liquids, Petroleum, Sand and gravel

Du-Pine Co.	24 3S 5E	Sand and gravel
William Brink	8 4S 6E	" " "
Joseph Chie	12 2S 6E	" " "
O. E. Gooding & Co.	SW NW 10 2S 5E(HMS)SW 3 2S 5E	" " "
	SE SE 9 2S 7E SW NE 19 2S 7E	" " "
	19 3S 6E 14 3S 6E	" " "
	12 3S 3E 27 1S 3E	" " "
Killins Gravel Co.	25 2S 5E	" " "
Kruse Gravel Co.	32 2S 7E	" " "
Kuebler Excavation	16 2S 6E	" " "

WASHTENAW (con't.)

Liberty Sand Co.		36 2S 6E	Sand and gravel
Mich. State Hwy. Dept.		(contractor)	" " "
Short Hills Gravel Co.		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	" " "

WAYNE

4th - \$53,971,114 (-6.1%): Lime, Salt, Cement, Sand and gravel, Stone, Clay, Sulfur, Petroleum

A.B.C. Sand Co.	Nankin		Sand, fill
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.	SW 32 2S 11E		Rock Salt (Halite)
Lightweight Aggregate Corp.	NE 27 1S 9E		Clay, light weight aggregate
Marathon Oil Co.	Detroit		Sulphur
Mich. Foundation Quarry Co.	NE NW 7 4S 11E		Limestone, crushed
Moore Bros. Sand & Gravel	E½ SE 9 3S 9E		Sand and gravel
Al Morgan Sand Co.	Romulus		Sand
Ottawa Silica Co.	SW NE 15 5S 10E		Sandstone (silica sand)
Peerless Cement Corp.	Detroit (2 plants)		Cement
Pennwalt Chemical 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		" " "
BASF Wyandotte Corp.	Wyandotte		Salt, cement, lime
Marblehead Lime Co.	River Rouge		Lime (limekiln only)

WEXFORD

76th - \$80,000 (-33.9%): Sand and gravel

Leo Dunbar		SW NE 15 21N 9W	Sand and gravel
State of Michigan	NE SE 20 22N 11W	SW SE 35 24N 9W	" " "
		SE SE 32 23N 11W	" " "
Mich. State Hwy. Dept.		(contractor)	" " "
Wexford Co. Road Comm.		(contractor)	" " "
Wexford Gravel Co.		NW NE 10 21N 9W	" " "

UNDISTRIBUTED

\$8,934,000 : Sand and gravel

U. S. Department of Agriculture	Various Counties	Sand and gravel
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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	Diamond Crystal Salt Co., Hooker Chemical Corp., International Salt Co., Hardy Salt Co., Morton Salt Co., Pennwalt Chemical Corp., BASF Wyandotte Corp.

Limestone

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

SELECTED MINERALS AND GEOLOGY (cont'd.)

GEOLOGIC UNIT MINED:

Limestone (cont'd.)

Middle Devonian:
 Traverse Huron Portland Cement Co.
 (Alpena Lms.), Penn-Dixie
 Cement Co. (Gravel Point),
 Medusa Portland Cement Co.
 (Gravel Point), Charlevoix
 Lime & Stone Co., Onaway
 Stone Co.
 Dundee Limestone Dundee Cement Co., Michigan
 Limestone Operation @
 Calcite, & Presque Isle
 Corp. (Rogers City Lms.)
 Middle Silurian:
 Hendricks Dol. (Fiborn Lms.). Inland Lime & Stone Co.

Dolostone

Middle Devonian:
 Detroit River Michigan Foundation Quarry
 Co., Inc., Michigan Stone
 Co., France Stone Co. @
 Maybee
 Late Silurian:
 Bass Islands France Stone Co., & Michigan
 Stone Co., Detroit Edison Co.
 Middle Silurian:
 Engadine Bethlehem Mines Corp.,
 Roen Salvage Co., Michigan
 Limestone Operation @
 Cedarville, and Inland Lime
 & Stone Co.
 Hendricks Dol. Inwood Stone Products Co.
 Middle Ordovician:
 Trenton Bichler Gravel Co.
 Black River Limestone Mountain Co.

Sandstone

Early Mississippian:
 Marshall Sandstone Ray's Stone Quarry & Jude
 Stone
 Middle Devonian:
 Sylvania Sandstone Ottawa Silica Co.

Shale

Early Pennsylvanian:
 Saginaw Fm. Grand Ledge Clay Products &
 Michigan Vitriified Tile Co.
 Late Devonian:
 Ellsworth Shale Medusa Portland Cement Co.
 Antrim Shale Huron Portland Cement Co.
 Middle Devonian:
 Gravel Point Fm. Penn-Dixie Cement Co.

U. S. GEOLOGICAL SURVEY TOPOGRAPHIC MAPS*

Published July 1, 1970 - June 30, 1972

Adair	Memphis
Algonac	Meredith NW
Allenton	Meredith SW
Almont	Metamora
Armada	Milford
Belle Isle	Mount Clemens W
Bentley	Muskallonge Lake E
Betsy Lake North	Muskallonge Lake W
Betsy Lake South	Muskallonge Lake SE
Betsy Lake SE	Muskallonge Lake SW
Betsy Lake SW	Nawakawa Lake
Birch Run South	New Baltimore
Birmingham	New Haven
Brighton	New Lothrop
Browns Corners	Northville
Butman	Oak Grove
Byron	Omer
Clarkston	Omer SW
Coleman	Ortonville
Coleman NE	Oxford
Davisburg	Pontiac N
Dearborn	Pontiac S
Denton	Port Huron
Detroit	Prescott
Durand	Rattle Run
Edenville	Redford
Estey	Richmond
Gladwin	Rochester
Goodells	Romeo
Grand Marais	Royal Oak
Grand Marais NE	Sage Lake
Grand Marais SE	Saint Clair
Grosse Pointe	Saint Clair Flats
Hadley	Secord Lake
Hale	Skeels
Hale SE	Skidway Lake
Hartland	Smiths Creek
Highland	Sterling
Highland Park	Sterling NW
Hope (formerly Highwood SE)	Sterling SW
Howell	Thornville
Inkster	Utica
Isle Royal National Park	Waldenburg
Kent Lake	Warren
Lake Orion	Wayne
Loomis	West Highland
Marine City	Whittemore

* All are 7½ minute series

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