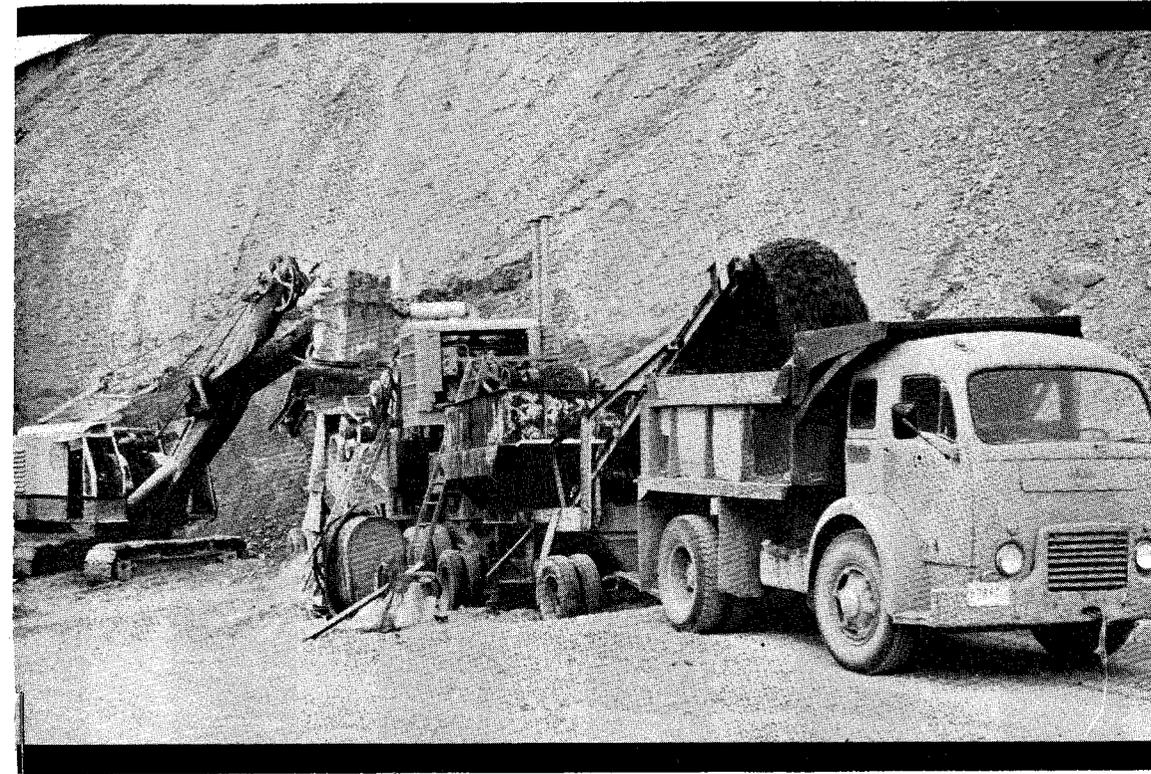
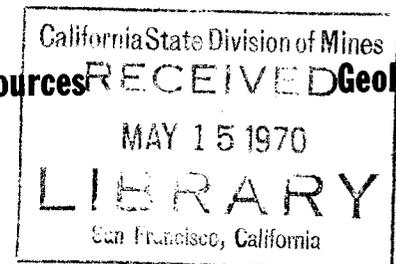


MICHIGAN MINERAL PRODUCERS 1968



Department of Natural Resources
ANNUAL DIRECTORY 3



Geological Survey

1969

STATE OF MICHIGAN
William G. Milliken, *Governor*
DEPARTMENT OF NATURAL RESOURCES
Ralph, A. MacMullan, *Director*
GEOLOGICAL SURVEY DIVISION
Gerald E. Eddy, *State Geologist and Chief*



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Samuel A. Milstein, *Executive Assistant*

MICHIGAN MINERAL PRODUCERS 1968

Compiled by
R. Thomas Segall

LANSING, 1969

. . . 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 of . . . mining and smelting industries.
--Compiled Laws Mich. 1948 s.319.202

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 1968. 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 offices, and interested persons. The directory lists producers alphabetically by mineral, with a producer location map at the beginning of each section. 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
December, 1969

R. Thomas Segall
Geologist
Mining & Economic Geology

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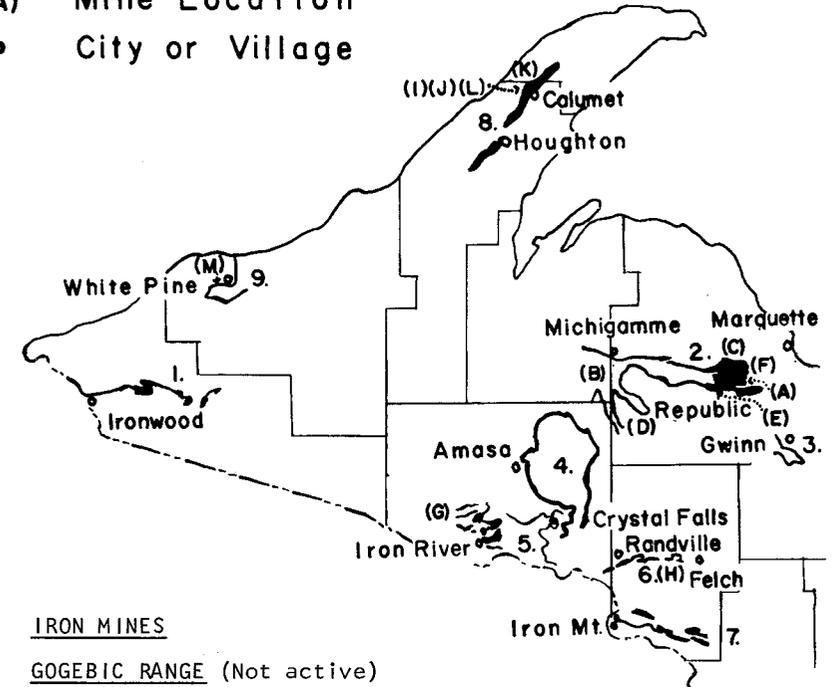
1968
MICHIGAN COMMODITY CHART

COMMODITY	NO. OF PRODUCERS	AMOUNT PRODUCED
METALLICS:		
Copper	4	148,380,822 Pounds
Iron Ore	11	12,815,431 Long Tons
Silver	1	1,013,995 Fine Ounces
NON-METALLICS:		
Cement	9	32,868,574 Barrels (376#)
Clay & Shale*	14	2,599,351 Short Tons
Gypsum	5	1,404,796 Short Tons
Lime	11	1,630,311 Short Tons
Marl	24	134,394 Short Tons
Natural Salines**	10	933,989 Short Tons
Peat	24	273,513 Short Tons
Salt	11	4,893,261 Short Tons
Sand & Gravel	314	56,663,000 Short Tons
Stone*	31	37,144,499 Short Tons
Sulfur & Mineral Pigments	3	47,543 Short Tons
FUELS:		
Petroleum	4,372	12,974,404 Barrels (42 gal.)
Natural Gas	414	39,685,162 MCF
Natural Gas Liquids	36	103,609,986 Gallons

* Material used in cement production is not included.
** Includes Bromine, Magnesium Compounds, Calcium-Magnesium Chloride, Potash, and Iodine.

**ACTIVE MINES IN MICHIGAN'S
IRON AND COPPER DISTRICTS
1968**

- ☛ Iron and Copper Outcrops
- (A) Mine Location
- City or Village



- | | |
|--|--|
| <p>IRON MINES</p> <p>1. <u>GOGEBIC RANGE</u> (Not active)</p> <p>2. <u>MARQUETTE RANGE</u></p> <p>(A) Empire open pit*</p> <p>(B) Humboldt open pit*</p> <p>(C) Mather mine</p> <p>(D) Republic open pit*</p> <p>(E) Tilden open pit*</p> <p>(F) Tracy mine</p> <p>3. <u>GWINN DISTRICT</u> (Not active)</p> <p>4. <u>AMASA-OVAL DISTRICT</u> (Not active)</p> <p>5. <u>IRON RIVER-CRYSTAL FALLS DISTRICT</u></p> <p>(G) Sherwood Mine</p> <p>6. <u>FELCH DISTRICT</u></p> <p>(H) Groveland open pit*</p> <p>7. <u>IRON MOUNTAIN RANGE</u> (Not active)</p> | <p>COPPER MINES AND RECLAMATIONS</p> <p>8. <u>NATIVE COPPER ORE</u></p> <p>(I) Allouez No. 3 Mine</p> <p>(J) Centennial 3 & 6 Mine</p> <p>(K) Kingston Mine</p> <p>(L) Osceola 13 Mine</p> <p>9. <u>COPPER SULFIDE ORE</u></p> <p>(M) White Pine Mine</p> |
|--|--|

* Beneficiated ore
/ Siliceous ore

Metallic Mining Operations

Iron Mines and Pits

(Active mines in 1968)

Range-Dist. & Map Symbol	Mine	Company	Mine Location
<u>GOGEBIC (Not Active)</u>			
<u>MARQUETTE</u>			
(A)	Empire (open pit concentrates)	Cleveland-Cliffs Iron Co. 1460 Union Commerce Bldg. Cleveland, Ohio 44114	1 Mi. NW. of Palmer, in Sec. 17, T47N, R26W, <u>MARQUETTE COUNTY</u>
(B)	Humboldt (open pit concentrates)	Cleveland-Cliffs Iron Co. 1460 Union Commerce Bldg. Cleveland, Ohio 44114	1 Mi. SW. of Humboldt, Sec. 11, T47N, R29W, <u>MARQUETTE COUNTY</u>
(C)	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, <u>MARQUETTE COUNTY</u>
(D)	Republic (open pit concentrates)	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, <u>MARQUETTE COUNTY</u>
(E)	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, <u>MARQUETTE COUNTY</u>
(F)	Tracy	Jones & Loughlin Steel Corp. Mich. Ore Division Tracy Mine Negaunee, Michigan 49866	4 Mi. N. of Negaunee, in Sec. 7 & 8, T48N, R26W, <u>MARQUETTE COUNTY</u>
<u>GWINN (Not Active)</u>			
<u>AMASA-OVAL (Not Active)</u>			
<u>IRON RIVER-CRYSTAL FALLS</u>			
(G)	Sherwood	Inland Steel Co. 30 W. Monroe St. Chicago, Illinois 60603	½ Mi. N. of Iron River in Sec. 23, T43N, R35W, <u>IRON COUNTY</u>
<u>FELCH</u>			
(H)	Groveland (open pit concentrates)	The Hanna Mining Co. 100 Erieview Plaza Cleveland, Ohio 44114	3 Mi. E. of Randville in Sec. 31, T42N, R29W; <u>DICKINSON COUNTY</u>
<u>EAST MENOMINEE (Not Active)</u>			

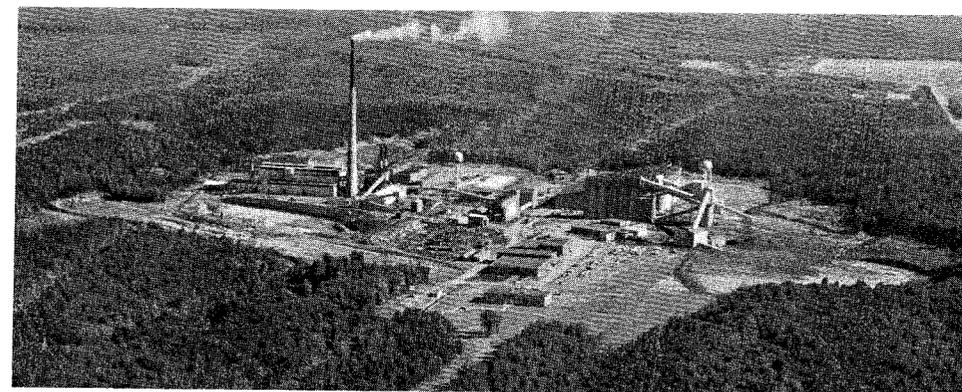
Copper Mines

NATIVE COPPER ORE

(I)	Allouez #3	Calumet & Hecla, Inc. Calumet Avenue Calumet, Michigan 49913	Ahmeek, Mich. in Sec. 32, T57N, R32W <u>KEWEENAW COUNTY</u>
(J)	Centennial #3 & 6	Calumet & Hecla, Inc. Calumet Avenue Calumet, Michigan 49913	1.5 Mi. NE of Calumet, in SE¼ Sec. 12, T56N, R33W, <u>HOUGHTON COUNTY</u>
(K)	Kingston	Calumet & Hecla, Inc. Calumet Avenue Calumet, Michigan 49913	Ahmeek, Mich. in SE¼, Sec. 32, T57N, R32W, <u>KEWEENAW COUNTY</u>
(L)	Osceola 13	Calumet & Hecla, Inc. Calumet Avenue Calumet, Michigan 49913	Osceola, Mich. in Sec. 23, T56N, R33W, <u>HOUGHTON COUNTY</u>

COPPER SULFIDE ORE

(M)	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 <u>ONTONAGON COUNTY</u>
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Aerial view of the White Pine Copper Company, Ontonagon County
Picture courtesy of White Pine Copper Co.

Nonmetallic Mining Operations

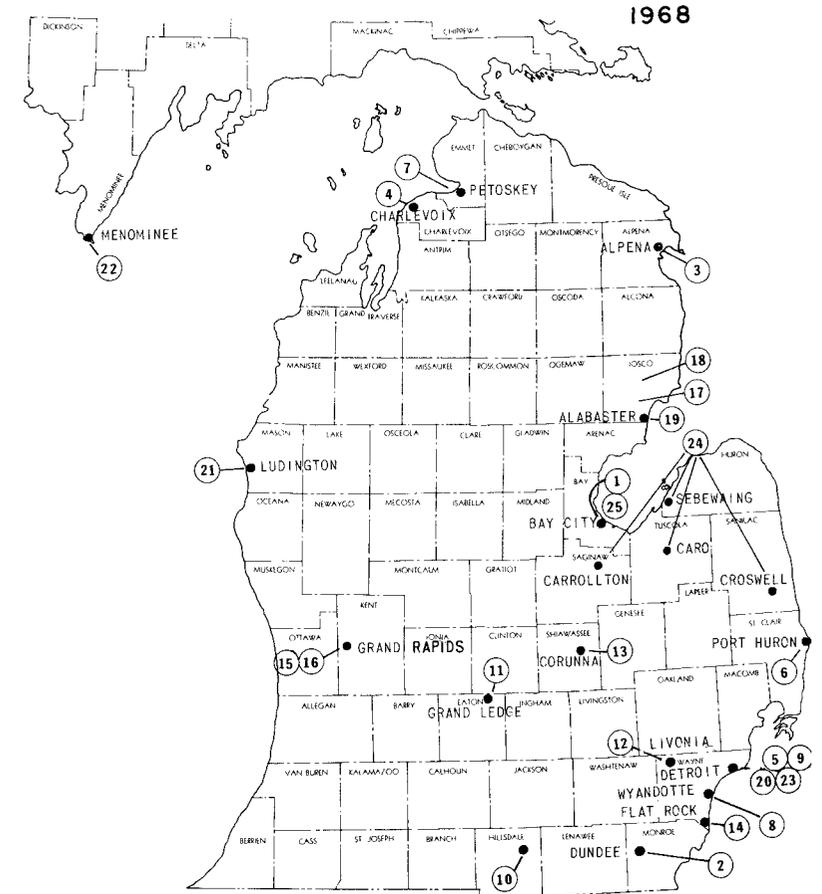
Cement

Name of Operation	Map Location Symbol (See Map 1)	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 $\frac{1}{2}$ Sec. 14, T14N, R5E; raw material obtained from Rogers City area. <u>BAY COUNTY</u> (Clay pit 4 Mi. W. of Saginaw)
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> (Use clay from overburden)
HURON Portland Cement Co. Div. Nat'l. Gypsum Co. 1325 Ford Bldg. 615 Griswold Street Detroit, Michigan 48226	(3)	1.5 Mi. NE of Alpena, in Sec. 13 & 14, T31N, R9E, plant and quarry. <u>ALPENA COUNTY</u> (Paxton shale quarry 8 Mi. W. of Alpena NE 30 31N, 7E)
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 (Use Ford clay pit). <u>WAYNE COUNTY</u>
Peerless Cement Co. Div. of American Cement Corp. 900 Detroit Trade Center Detroit, Michigan 48226	(6)	Port Huron plant. Obtains raw material from Rogers City area and supplies Detroit plants. <u>ST. CLAIR COUNTY</u> (Clay pit at Smiths Creek)
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> (Shale Quarry at Ellsworth)
Wyandotte Chemical Corp. 1609 Biddle Ave. Wyandotte, Michigan 48192	(8)	Wyandotte, Mich. (plant) Raw material from Rogers City area. <u>WAYNE COUNTY</u>

Clay* and Clay Products

Name of Operation & Map Symbol	Material and Product	Property Location
Clippert Brick & Tile Co. Wyoming & Southern Streets Dearborn, Mich. 48120	(9) Clay, Brick	Near SE corner Wyoming and Michigan Ave. (US 112) Dearborn, <u>WAYNE COUNTY</u>
Comfort Brick & Tile Co. Rogers Highway Tecumseh, Michigan 49286	(10) Brick	1 Mi. SE of Tecumseh in Sec. 2 T6S, R4E, <u>LENAWEE COUNTY</u>

MAP SHOWING LOCATIONS OF CEMENT, CLAY, GYPSUM, & LIME OPERATIONS



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. Wyandotte Chemical

GYPSUM

15. Bestwall Gypsum
16. Grand Rapids Gypsum
17. Michigan Gypsum
18. National Gypsum
19. U. S. Gypsum

LIME

20. Detroit Lime Co.
21. Dow Chemical-Ludington
22. Limestone Prod. Div.
23. Marblehead Lime Co.
24. Michigan Sugar Co.
25. Monitor Sugar Div.
26. Wyandotte Chemical

CLAY AND CLAY PRODUCTS

9. Clippert Brick & Tile
10. Comfort Brick & Tile
11. Grand Ledge Clay Prod.
12. Lightweight Aggregate Corp.
13. Michigan Vitrified Tile
14. F. W. Ritter & Sons

Name of Operation & Map Symbol	Material and Product	Property Location
Grand Ledge Clay Prod. Co. (11) West Jefferson St. Grand Ledge, Michigan 48837	Shale, Tile	W. Side of Grand Ledge, in SE $\frac{1}{4}$ Sec. 3, T4N, R4W, <u>EATON COUNTY</u>
Lightweight Aggregate Corp. (12) 12720 Farmington Rd. Livonia, Michigan 48150	Clay, light-weight aggregate	1 Mi. S. of Livonia, in Sec. 27, T1S, R9E, <u>WAYNE COUNTY</u>
The Mich. Vitrified Tile (13) P. O. Box 450 Findlay, Ohio 45840	Shale, Tile	$\frac{1}{2}$ Mi. E. of Corunna, in Sec. 22, T7N, R3E, <u>SHIAWASSEE COUNTY</u>
F. W. Ritter & Sons Co., Inc. (14)	Clay, Pottery	1 Mi. S. of S. Rockwood, in Sec. 21, T5S, R10E, <u>MONROE COUNTY</u>

*Producers of clay used in cement manufacture not included. See Cement.

Gypsum

Name of Operation & Map Loc.	Mine or Quarry Location	Mill Loc.
Bestwall Gypsum Co., Div. Georgia-Pacific Corp. P. O. Box 311 Portland, Oregon 97204	(15) 1 Mi. SW of Grand Rapids in SW $\frac{1}{4}$ Sec. 34, T7N, R12W. Mine and mill. <u>KENT COUNTY</u>	At mine 2228 Butterworth Rd. SW Grand Rapids, Mich. 49501
Grand Rapids Gypsum Co. P. O. Box 1674 Grand Rapids, Mich. 49501	(16) 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	(17) 4 Mi. SW of National City in Sec. 25, T21N, R5E, open pit and plant. <u>IOSCO COUNTY</u>	East of pit, in SW $\frac{1}{4}$ Sec. 30, T21N, R6E
National Gypsum Co. 325 Delaware Ave. Buffalo, New York 14202	(18) 8 Mi. W. of Tawas City, in Sec. 26 & 35, T22N, R6E, open pit. <u>IOSCO COUNTY</u>	2 Mi. S. of Nat'l. City in Sec. 16, T31N, R6E, <u>IOSCO COUNTY</u>
United States Gypsum Co. 101 S. Wacker Drive Chicago, Illinois 60606	(19) W. of Alabaster, in Sec. 22 & 27, T21N, R7E, open pit. <u>IOSCO COUNTY</u>	Detroit, Mich. <u>WAYNE COUNTY</u>

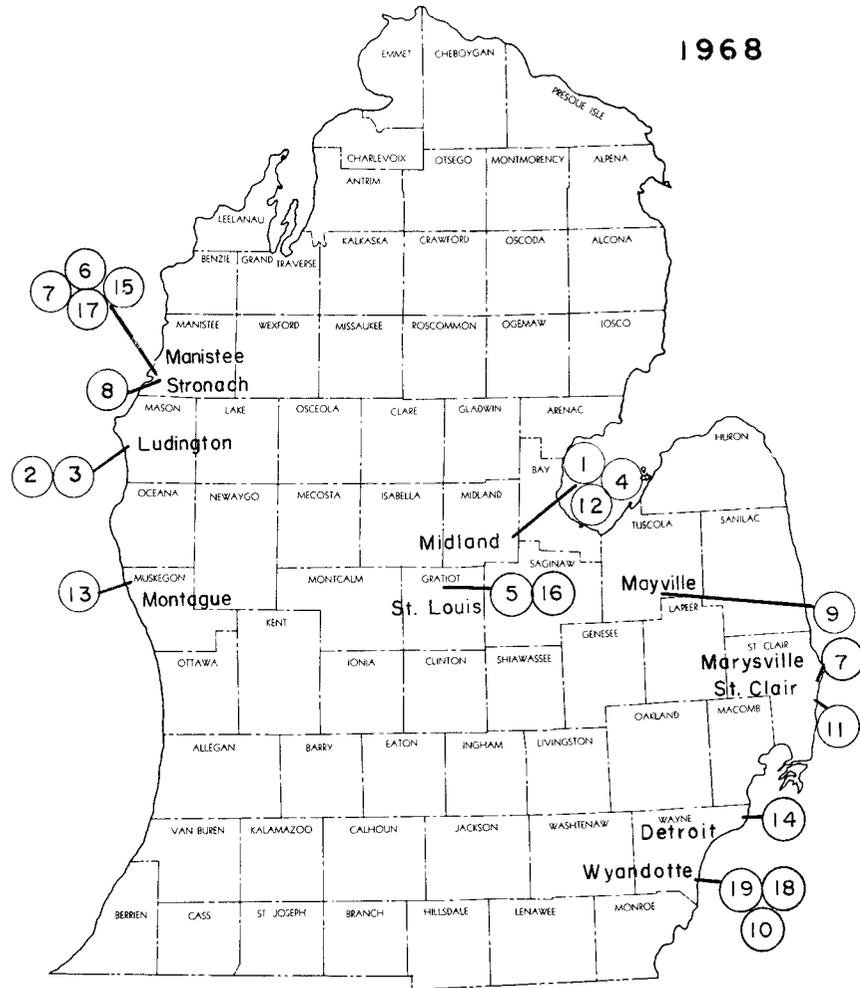
Lime

Name of Operation & Map Location	Plant Location
Detroit Lime Co. (20) (subsidiary, Ed. C. Levy Co.) 8800 Dix Ave. Detroit, Michigan 48209	River Rouge, Limekiln only <u>WAYNE COUNTY</u>
The Dow Chemical Co. (21) Ludington Division Midland, Michigan 48640	Ludington, Limekiln only <u>MASON COUNTY</u>
Limestone Products Division (22) C. Reiss Coal Co. Menominee, Michigan 49858	320 First Street, Menominee Limekiln only <u>MENOMINEE COUNTY</u>
Marblehead Lime Co. (23) (General Dynamics Corp.) 25 Marion St. Detroit, Mich.	River Rouge, Limekiln only <u>WAYNE COUNTY</u>
Michigan Sugar Co. (24) 909 2nd National Bank Bldg. Saginaw, Michigan 48601	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 (25) Robert Gage Coal Co. 2600 S. Euclid Ave. Bay City, Michigan 48706	Bay City, Limekiln only <u>BAY COUNTY</u>
Wyandotte Chemicals Corp (26) 1609 Biddle Avenue Wyandotte, Michigan 48192	Wyandotte, Limekiln only <u>WAYNE COUNTY</u>

Natural Salines

Name of Operation	Products	Plant Location
The Dow Chemical Co. Midland, Michigan 48640	Bromine, bromine compounds, magnesium compounds, calcium chloride, potash, iodine	South side of Midland T41N, R2E <u>MIDLAND COUNTY</u>
The Dow Chemical Co. Midland, Michigan 48640	Bromine, magnesium compounds, calcium chloride	1 Mi. SE of Ludington in SW 23, 18N, 18W <u>MASON COUNTY</u>
Harbison-Walker Refractories Co. 2 Gateway Center Pittsburgh, Pa. 15222	Magnesium compounds	1.5 Mi. SE of Ludington in NE, SE 23, 18N, 18W <u>MASON COUNTY</u>
Kaiser Aluminum & Chemical 900 17th St., NW Washington, D.C. 20006	Magnesium compounds	Midland T14N, R2E <u>MIDLAND COUNTY</u>
Michigan Chemical Corp. 2 North Riverside Plaza Chicago, Illinois 60606	Bromine, magnesium compounds, calcium-magnesium chloride	W. side of St. Louis in Sec. 24 T12N, R3W <u>GRATIOT COUNTY</u>
Michigan Chemical Corp. 2 North Riverside Plaza Chicago, Illinois 60606	Bromine	East Lake, 1 Mi. E. of Manistee in NW 7, 21N, 16W <u>MANISTEE COUNTY</u>

MAP SHOWING 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.
- 8. Standard Lime & Refractories
- 9. Wilkinson Chemical Co.
- 10. Wyandotte Chemical Co.

SALT

- 11. Diamond Crystal Salt Co.
- 12. Dow Chemical Co.
- 13. Hooker Chemical Corp.
- 14. International Salt Co., Inc.
- 15. Manistee Salt Works, Div. of Hardy Salt Co.
- 16. Michigan Salt Co.
- 17. Morton Salt Co.
- 18. Pennsalt Chemicals Corp.
- 19. Wyandotte Chemical Corp.

NATURAL SALINES (CON'T)

Name of Operation	Products	Plant Location
Morton Chemical Co. Div. of Morton Int'l. Inc. 110 N. Wacker Dr. Chicago, Illinois 60606	Bromine, magnesium compounds, calcium chloride	Manistee, Mich. in Sec. 12, T21N, R17W <u>MANISTEE COUNTY</u>
Standard Lime & Refractories 2000 First Nat'l. Bank Bldg. Baltimore, Maryland 21203	Magnesium compounds	1 Mi. NW of Stronach, SE½ Sec. 18, T21N, R16W <u>MANISTEE COUNTY</u>
Wilkinson Chemical Co. Mayville, Michigan 48744	Calcium-magnesium chloride	S. of Mayville Sec. 28, T10N, R10E <u>TUSCOLA COUNTY</u>
Wyandotte Chemicals Corp. 1609 Biddle Avenue Wyandotte, Michigan 48192	Calcium chloride	Wyandotte, Mich. <u>WAYNE COUNTY</u>

Salt

American Salt Corp. 3142 Broadway Kansas City, Missouri 64111	Evaporated salt	Midland, Mich. Raw material from Dow Chemical. <u>ST. CLAIR COUNTY</u>
Diamond Crystal Salt Co. 916 S. Riverside St. Clair, Michigan 48079	Evaporated salt	St. Clair, Mich. Sec. 31, T5N, R17E <u>ST. CLAIR COUNTY</u>
The Dow Chemical Co. Midland, Michigan 48640	Salt brine (chlorine, natural salines)	Midland, Mich. <u>MIDLAND COUNTY</u>
Hooker Chemical Corp. P. O. Box 295 Montague, Michigan 49437	Salt brine (chlorine, caustic soda, hydrogen)	Montague, Mich. NE½ Sec. 31, T12N, R17W <u>MUSKEGON COUNTY</u>
International Salt Co., Inc. Clarks Summit, Pa. 18411 Detroit Mine: 12841 Saunders St. Detroit, Mich. 48217	Rock salt	Detroit, Mich. SW½ Sec. 32, T2S, R11E <u>WAYNE COUNTY</u>
Manistee Salt Works Division of Hardy Salt Co. P. O. Drawer 449 St. Louis, Missouri 63166	Evaporated salt	Manistee, Mich. <u>MANISTEE COUNTY</u>
Michigan Salt Co. 2 North Riverside Plaza Chicago, Illinois 60606	Evaporated salt	St. Louis, Mich. <u>GRATIOT COUNTY</u>
Morton Salt Co. Div. Morton Int'l. Inc. 110 N. Wacker Drive Chicago, Illinois 60606	Evaporated salt	Manistee, Mich. E½ Sec. 12, T21N, R17W <u>MANISTEE COUNTY</u>

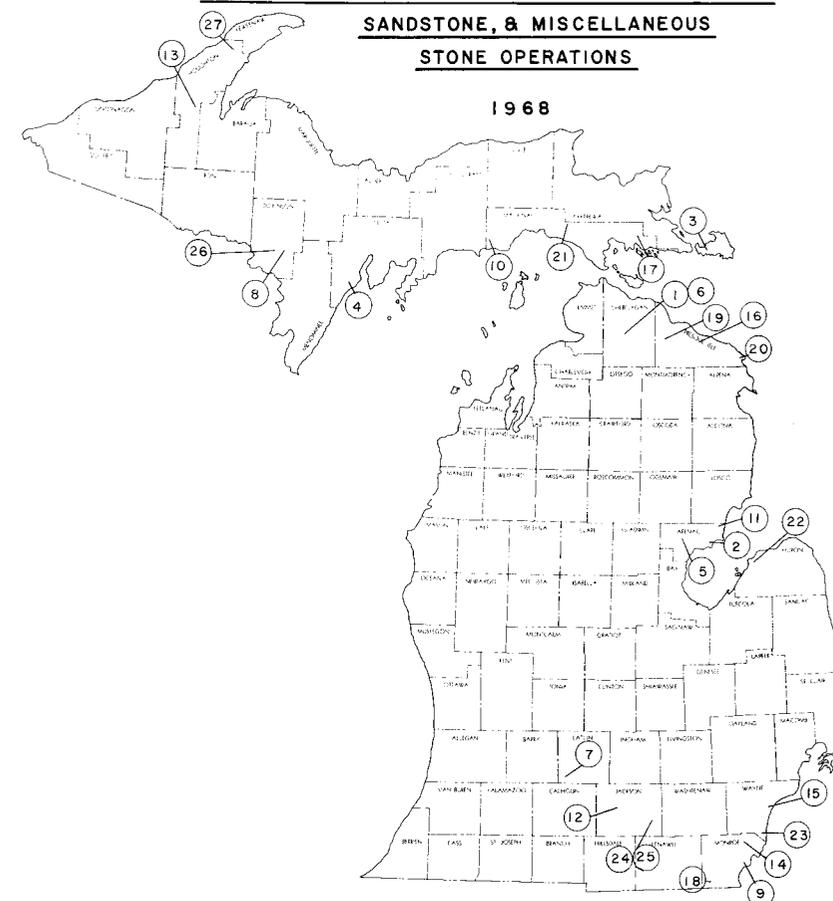
SALT (CON'T)

Name of Operation	Products	Plant Location
Morton Salt Co. Div. Morton Int'l., Inc. 110 N. Wacker Drive Chicago, Illinois 60606	Evaporated salt	Marysville, Mich. SE $\frac{1}{4}$, Sec. 29, T6N, R17E ST. CLAIR COUNTY
Pennsalt Chemical Corp. 3 Penn Center Philadelphia, Pa. 19102	Salt brine (chlorine, caustic soda, hydrogen)	Wyandotte, Mich. WAYNE COUNTY
Wyandotte Chemical Corp. 1609 Biddle Ave. Wyandotte, Michigan 48192	Salt brine (chlorine, soda ash)	Wyandotte, Mich. WAYNE COUNTY

Stone

LIMESTONE* AND DOLOMITE

Name of Operation & Map No.	Type of Stone	Quarry Location
Afton Stone and Lime Co. Afton, Michigan 49705	(1) Limestone, crushed	North of Afton, Sec. 25, T35N, R2W, CHEBOYGAN COUNTY
Arenac Co. Rd. Comm. Omer, Michigan 48749	(2) Limestone, crushed	Northeast of Au Gres Sec. 5, T19N, R7E, ARENAC COUNTY
Bethlehem Mines Corp 701 East 3rd Street Bethlehem, Pa. 18016	(3) Dolomite, crushed	West end Drummond Island, Sec. 3 & 10, T41N, R5E, CHIPPEWA COUNTY
Bichler Gravel Co. Box 205 Wells, Michigan 49894	(4) Limestone, crushed	Sec. 2 & 14, T39N, R23W, DELTA COUNTY
Bay Co. Rd. Comm. Bay City, Michigan 48706	(5) Limestone, crushed	Near Omer Sec. 34, T20N, R5E, ARENAC COUNTY
Charlevoix Lime & Stone Co. Vanderbilt, Michigan 49795	(6) Limestone, crushed	North of Afton Sec. 25, T34N, R2W, CHEBOYGAN COUNTY
Cheney Limestone Co. P. O. Box 125 Bellevue, Michigan 49021	(7) Limestone, crushed and dimensional	West of Bellevue Sec. 20, T1N, R6W EATON COUNTY
Felch Quarry Corp. Box 97 Felch, Michigan 49831	(8) Dolomite, crushed	2 $\frac{1}{2}$ Mi. E. of Felch, SE SW Sec. 26, T42N, R28W, DICKINSON COUNTY
The France Stone Co. 1800 Toledo Trust Bldg. Toledo, Ohio 43604	(9) Dolomite, crushed	Monroe, Mich. Sec. 7, T7S, R9E, MONROE COUNTY

MAP SHOWING LOCATIONS OF LIMESTONE, DOLOMITE,
SANDSTONE, & MISCELLANEOUS
STONE OPERATIONS

LIMESTONE AND DOLOMITE

1. Afton Stone & Lime Co.
2. Arenac Co. Road Comm.
3. Bethlehem Mines Corp.
4. Bichler Gravel Co.
5. Bay Co. Road Comm.
6. Charlevoix Lime & Stone Co.
7. Cheney Limestone Co.
8. Felch Quarry Co.
9. France Stone Co.
10. Inland Lime & Stone Co.
11. Josco Co. Road Comm.
12. Jeffrey Limestone Co.
13. Limestone Mountain Co.
14. Mich. Stone Co. (Maybee Qy)
15. Mich. Foundation Quarry Co., Inc.
16. Mich. Limestone Operation-Rogers City
17. Mich. Limestone Operation-Cederville
18. Mich. Stone Co. (Ottawa Lake Qy)
19. Onaway Stone Co.
20. Presque Isle Corp.
21. Roen Salvage Co.
22. Wallace Stone Co.

SANDSTONE

23. Ottawa Silica Co.
24. Ray's Stone Quarry
25. Jude Stone Quarry

MISCELLANEOUS STONE

26. Aggregate Specialties
27. Houghton Co. Road Comm.

LIMESTONE AND DOLOMITE (CON'T)

Name of Operation & Map No.	Type of Stone	Quarry Location
Inland Lime & Stone Co. (10) Div. Inland Steel Co. Gulliver, Michigan 49840	Limestone, crushed	North of Port Inland, Sec. 6, T42N, R12W, <u>MACKINAC COUNTY</u>
Iosco Co. Rd. Comm. (11) P. O. Box 31 East Tawas, Michigan 48730	Limestone, crushed	Northeast of AuGres Sec. 24, T20N, R7E, <u>ARENAC COUNTY</u>
Jeffrey Limestone Co. (12) Box 126 Parma, Michigan 49269	Limestone, crushed	Northeast of Parma Sec. 30, T2S, R2W, <u>JACKSON COUNTY</u>
Limestone Mountain Co. (13) Div. Thornton Constr. Co., Incorporated 1028 Ethel Avenue Hancock, Michigan 49930	Dolomite, crushed	Near Pelkie Sec. 23, T51N, R35W, <u>HOUGHTON COUNTY</u>
Michigan Stone Co. (14) Ottawa Lake, Mich. 49267	Dolomite, crushed	Near Maybee Sec. 29, T5S, R8E, <u>MONROE COUNTY</u>
Mich. Foundation Quarry Co., (15) Incorporated 110 W. Jefferson Ave. Trenton, Michigan 48183	Limestone, crushed	Trenton, Mich. Sec. 7, T4S, R11E, <u>WAYNE COUNTY</u>
Michigan Limestone Operation (16) U.S. Steel Corporation Rogers City, Michigan 49779	Limestone, crushed	Near Rogers City Sec. 23, T35N, R5E, <u>PRESQUE ISLE COUNTY</u>
Michigan Limestone Operation (17) U.S. Steel Corporation Rogers City, Michigan 49779	Dolomite, crushed	Near Cedarville Sec. 10, T42N, R1E, <u>MACKINAC COUNTY</u>
Michigan Stone Co. (18) Ottawa Lake, Michigan 49267	Dolomite, crushed	East of Ottawa Lake Sec. 25, T8S, R6E, <u>MONROE COUNTY</u>
Onaway Stone Co. (19) Onaway, Michigan 49765	Limestone, dimensional	North of Onaway Sec. 5, T34N, R2E, <u>PRESQUE ISLE COUNTY</u>
Presque Isle Corp. (20) P. O. Box 426 Alpena, Michigan 49707	Limestone, crushed	Sec. 2, T33N, R8E, <u>PRESQUE ISLE COUNTY</u>
Roen Salvage Co. (21) Sturgeon Bay, Wisconsin 54235	Dolomite, dimensional	East of Ozark NW 8 43N 5W, <u>MACKINAC COUNTY</u>
The Wallace Stone Co. (22) Div. J. P. Burroughs & Son, Incorporated Bayport, Michigan 48720	Limestone, crushed and dimensional	Southeast of Bay- port, Sec. 5 & 6, T16N, R10E, <u>HURON COUNTY</u>

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

SANDSTONE

Name of Operation & Map No.	Type of Stone	Quarry Location
Michigan Silica Co. (23) Rockwood, Michigan	Sandstone, crushed (Silica sand)	Near Rockwood, Sec. 15, T5S, R10E, <u>WAYNE COUNTY</u>
Ray's Stone Quarry (24) 303 Natasseepe St. Napoleon, Michigan 49261	Sandstone	East of Napoleon, Sec. 6, T4S, R2E, <u>JACKSON COUNTY</u>
Jude Stone Company (25) Napoleon, Michigan 49261	Sandstone	East of Napoleon, Sec. 31, T3S, R2E, <u>JACKSON COUNTY</u>

MISCELLANEOUS STONE

Aggregate Specialties, Inc. (26) Caspian, Michigan 49915	Feldspar & amphibolite, crushed	Randville, NW, NW, 26, 42N, 30W, SE SW & SW SE 30, 42N, 29W <u>DICKINSON COUNTY</u>
Houghton Co. Road Comm. (27) Royce Rd. Hancock, Michigan 49930	Basalt, crushed	Traprock Quarry <u>HOUGHTON COUNTY</u>

Marl

Name and Address of Producer	Pit and County
Agricultural Marl Supply, R#1, Allen 49227	Belden, Hervig, & Ryan pits, ALLEGAN CO.
Gerald Arnsman, R#1, Hopkins 49328	Arah Pullman pit, CALHOUN CO.
Carl Avery, R#2, Box 628, Battle Creek 49017	John Pung & Steve Demack pits, JACKSON CO.
Barnes Brothers, Horton 49246	File & Riggs Pits, CASS CO.
Barnett Bros., S. Front St., Dowagiac 49407	Turtle Lake pit, CALHOUN CO.
Case Brothers, R#2, Box 136, Union City 49094	23, 8S, 20W, BERRIEN CO.
Crosby Marl Co., B. W. Crosby, Three Oaks 40128	Duncan L., 6, 4N, 10W, BARRY CO.
William Currier, R#1, Caledonia 49316	Drake pit, 12, 5S, 12W, ST. JOE. CO.
Coy Drake, R#1, Three Rivers 49093	NEWAYGO CO.
Grant Tufa Lime Co., Grant 49327	Paw Paw Lake pit, KALAMAZOO CO.
Samuel Green, Marcellus 49067	25, 2N, 7W, BARRY CO.
E. R. Hamilton, R#3, Nashville 49073	8, 4S, 10W, KALAMAZOO CO.
Hayward Dry Marl, R#2, Vicksburg 49097	Palmer pit, 14, 5S, 3W, HILLSDALE CO.
John Hess, R#1, Hanover 49241	23, 6N, 13W, OTTAWA CO.
Henry Koster, 1074 Chicago Dr., Jenison 49428	21, 8S, 20W, BERRIEN CO.
Martin's Marl, R#2, Box 46, Three Oaks 49128	VerStrate pit, 6N, 13W, OTTAWA CO.
Ralph Meyers, R#2, West Olive 49460	Pavlak pit, 12, 2N, 12W, ALLEGAN CO.
Emil Pavlak, R#2, Hopkins 49328	Long L. pit, 9, 8S, 13W, CASS CO.
Piphers Marl Service, Jones 49061	12 & 13, 7S, 16W, CASS CO.
Poehlman & Son, R#2, Cassopolis 49031	

MARL (CON'T)

Name and Address of Producer	Pit and County
Roberts Bros. Marl, c/o Arthur Roberts, Sr., R#2, Three Rivers 49093	Kerr pit, 6S, 12W, ST. JOSEPH CO.
Fred Rumz, R#2, Vicksburg 49097	30, 4S, 10W, KALAMAZOO CO.
Harlan Spoor, R#1, Burlington 49029	23, 4S, 7W, CALHOUN CO.
Taylor & Son, Fremont, Indiana 46737	4, 8S, 6W; 16, 8S, 5W, BRANCH CO.

Peat

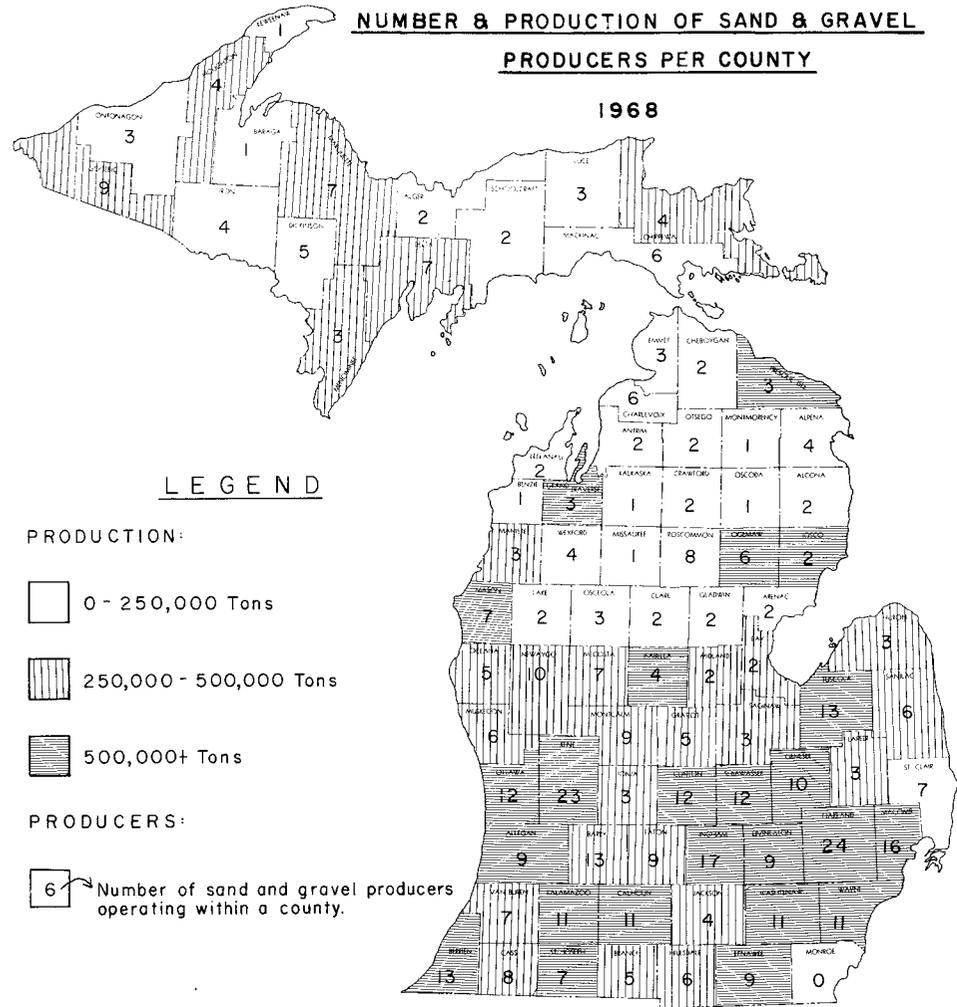
Name & Address of Producer	Kind of Peat	Nearest Town	County
A1-Par Peat Ovid, Michigan	reed-sedge bulk & packaged	Ovid	SHIAWASSEE
Anderson Peat Co. 2562 Graham Rd., Imlay City	reed-sedge bulk & packaged	Imlay City	LAPEER
Appleman Peat Co. 13450 Ida Center Rd., Ida	reed-sedge, bulk	Ida	MONROE
Emerson Chaney 1330 Matilda, NE Grand Rapids, Michigan	moss, bulk	Grand Rapids	KENT
Richard L. Corr 381 Lakeside Drive Stanton, Michigan 48888	moss, reed- sedge, bulk & packaged	Stanton	MONTCALM
Craven's Peat Farm 5864 S. 30th Street Kalamazoo, Michigan	reed-sedge, bulk	Kalamazoo	KALAMAZOO
Dan's Peat Farm 40500 12 Mile Rd. Novi, Mich.	Moss, bulk	Novi	OAKLAND
Diekman's Peat Moss 4209 Ivanrest Grandville, Mich.	Moss, bulk	Byron Center	KENT
Charles E. Douglas Wayland, Michigan	Moss, bulk	Wayland	ALLEGAN
Fletcher and Richard 54001 Grand River Road New Hudson, Mich.	Humus, bulk	New Hudson	OAKLAND
Gummer's Peat Co. R#2 Lakeview, Mich.	reed-sedge, bulk & packaged	Lakeview	MONTCALM
Hilu Peat Company 3040 Clinton Trail Charlotte, Mich.	humus, bulk	Charlotte	EATON
J. M. Huber Corp. Peat Dept. Menlo Park, New Jersey	red-sedge, bulk & packaged Moss, bulk	Imlay City Sandusky	LAPEER SANILAC

PEAT (CON'T)

Name & Address of Producer	Kind of Peat	Nearest Town	County
Katerberg Landscape Service 3610 Michigan Rd., NE Grand Rapids, Michigan	Humus, bulk	Grand Rapids	KENT
Kerr's Peat Moss R#1, Three Rivers, Michigan	reed-sedge, bulk & packaged	Three Rivers	ST. JOSEPH
Michigan Peat, Inc. 202 E. 47 Street New York, N. Y. 10017	reed-sedge, bulk & packaged	Capac	ST. CLAIR
Michigan Peat, Inc. 202 E. 47 Street New York, N.Y. 10017	reed-sedge, bulk & packaged	Imlay City	LAPEER
Michigan Peat, Inc. 202 E. 47th Street New York, N. Y. 10017	reed-sedge, packaged	Minden City	SANILAC
Quality Peat R#2, Three Rivers 49093	Reed-sedge	Three Rivers	ST. JOSEPH
Rushland Peat Co. Portsmouth Road Saginaw, Michigan	Moss, bulk and packaged	Juniata	TUSCOLA
Scenic Lakes, Inc. P. O. Box 566 East Lansing, Mich.	Humus, bulk	Perry	SHIAWASSEE
Soulliere Peat & Sod Co. 23650 23 Mile Road Mt. Clemens, Michigan	reed-sedge, bulk & packaged	Imlay City	LAPEER
Twin Lakes Nursery 3544 Michigan Road, NE Grand Rapids, Michigan	reed-sedge, bulk & packaged	Grand Rapids	KENT
Wicker's, Inc. 6498 Bishop Road Lansing, Michigan	Humus, bulk	Lansing	INGHAM

Sulfur

Name & Address of Producer	Map No.	Nearest Town	County
Leonard Refineries, Inc. Alma, Michigan 48801	(57)	Alma	GRATIOT
Marathon Oil Company 1300 S. Fort Street Detroit, Michigan 48217	(58)	Detroit	WAYNE
Mobil Oil Co., Inc. Box 477 Trenton, Mich. 48183	(61)	Trenton	WAYNE



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	147	36.8	1,736	3.6
25,000 to 50,000	73	18.2	2,631	5.4
50,000 to 100,000	51	12.7	3,659	7.5
100,000 to 200,000	58	14.5	8,080	16.5
200,000 to 300,000	34	8.5	8,715	17.8
300,000 to 400,000	13	3.2	4,430	9.1
400,000 to 500,000	4	1.0	1,757	3.6
500,000 to 600,000	9	2.2	5,085	10.4
600,000 to 700,000	4	1.0	2,536	5.2
700,000 to 800,000		.0		.0
800,000 to 900,000	3	.7	2,506	5.1
900,000 to 1,000,000	2	.5	1,873	3.8
1,000,000 & OVER	3	.7	5,842	12.0
TOTAL	401	100.0	48,850	100.0

Sand and Gravel

Name and Address (Michigan)	County
A A.B.C. Sand Co., 36444 Cowan Rd., Nankin 48184 Adrian Sand & Gravel Co., (Geo. Oldfield, Inc.) Adrian 49221 (2 pits)	WAYNE
Advance Bldg. Materials Co., 4500 31 Mile Rd., Romeo 48065 Aggregate Processors, Inc., Box 566, White Pigeon 49099 Albert Sand & Gravel, Inc., Stow Rd., Fowlerville 48836 Albrecht, William Jr., Sandusky 48471 Alcona County Road Commission, Lincoln 48742 Alger County Road Commission, Box 231, Munising 49862 Allegan County Road Commission, R#1, Box 2, Allegan 49010 Alpena County Road Commission, Box 28, Alpena 49707 Alpena Paving Co., 214 Farr Ave., Alpena 49707 American Aggregates Corp., Garst Ave. at Ave. B., Greenville, Ohio, 45331	LENAWEE MACOMB ST. JOSEPH LIVINGSTON SANILAC ALCONA ALGER ALLEGAN ALPENA ALPENA KALAMAZOO & LIVINGSTON (HMS), MACOMB (HMS), OAKLAND (HMS) OAKLAND TUSCOLA ANTRIM ARENAC MACOMB
American Stone Products, 6335 Sashabow Rd., Clarkston 48016 Anderson Sand & Gravel Co., 1705 Boxwood St., Saginaw 48601 Antrim County Road Commission, Mancelona 49659 Arenac County Road Commission, Omer 48749 Armada Sand & Gravel Co., 19391 Ridge Rd., Armada 48005 Arrowhead Silica Corp. (Manley Bros. Div.), 128 S. 15th St. Chesterton, Indiana 46304 (S)	BERRIEN
B B & K Sand and Gravel, Wallace 49893 Baraga County Road Commission, P. O. Box 227, L'Anse 49946 Barry County Road Commission, P. O. Box 158, Hastings 49058 Bartlett, Norman & Leon, R#3, East Jordan 49727 Battle Creek Gravel Co., 3800 Dickman Rd., Battle Creek 49015 Beagle, Richard, Sand & Gravel, 1623 S. Commerce Rd., Walled Lake 48088 (4 pits) Beckett Excavating, 19 E. Federal Hwy., Roscommon 48653 Beckman Bros. (Shelby Tractor Sales), 210 Michigan Ave., Shelby 49455 Bernthal Sand & Gravel Co., R#2, Reese 48757 Bichler Gravel Co., Box 205, Wells, 49894 Boichot Concrete Prod. Corp., 1800 Turner St., Lansing 48906 Brady Sand & Gravel, Tecumseh 49286 Branch County Road Commission, Box 75, Coldwater 49036 Briggs Ready-Mix & Gravel, 311 State St., Charlotte 48813 Brink, William, 1535 Willis Rd., Saline 48176 Brown, Gil, Constructors, Inc., R#2, Alpena 49707 Bundy Hill Gravel Co., (L. A. Davidson Co.) Jerome 49249 Burkett, J. V., St. Joseph 49085	MENOMINEE BARAGA BARRY CHARLEVOIX CALHOUN OAKLAND ROSCOMMON OCEANA TUSCOLA DELTA CLINTON (HMS) LENAWEE BRANCH EATON (HMS) WASHTENAW BARRY HILLSDALE (HMS) VARIOUS
C Calhoun County Road Commission, County Bldg., Marshall Caspian Constr. Co., Caspian 49115 Cass County Road Commission, R#1, Box 175, Cassopolis Central Michigan Sand & Gravel, 416 E. Huron St., Ann Arbor 48108 Champion, Inc., 105 E. "A" St., Iron Mountain 49801 Cheney Gravel Co., 691 N. College Rd., Mason 48854 Chesapeake & Ohio Railway Co., Huntington, W. Virginia 25700 Clare County Road Commission, Harrison 48625 Click Bros. Gravel, 8783 Bryce Road, Goodells 48027 Cliff's Gravel Co., G-6411 W. Carpenter Rd, Flushing	CALHOUN DELTA, GOGEBIC, IRON, ONTONAGON, MARQUETTE CASS WASHTENAW DICKINSON, MARQUETTE INGHAM KENT CLARE ST. CLAIR GENESEE

SAND AND GRAVEL (CON'T)

Name and Address (Michigan)	County
Clinton County Road Commission, St. Johns 48879 Coit Ave. Gravel Co., Inc., 4772 Coit Ave. NE, Grand Rapids 49505	CLINTON
Cole Brothers, R#3, Box 368, Battle Creek 49017	KENT BARRY, CALHOUN, ST. JOSEPH BARRY CALHOUN
Cole Gravel Co., R#1, Patterson Rd., Wayland 49348 Combs, Emil, Gravel & Ready-Mix, R#1, Tekonsha 49092 Constr. Aggregates Corp., 120 S. LaSalle St., Chicago, Ill. 60603	OTTAWA (HMS)
Consumers Sand & Gravel Co., Nazareth Rd., P. O. Box 231, Kalamazoo 49001	KALAMAZOO
Contractors Gravel Co., 455 Bertha St., Comstock Park 49321 Cook Block Co., 138 E. Harrington Rd., Crosswell 48422 Copper Range Railroad Co., Houghton 49931 Corey & Hartwig, Inc., Hadley, Michigan 48440 Cousineau Gravel, Inc., 1104 S. State St., Big Rapids 49307	KENT SANILAC HOUGHTON LAPEER MECOSTA, MONTCALM, NEWAYGO, OSCEOLA CRAWFORD KENT
Crawford County Road Commission, 320 State St., Grayling 49738 Cross & White, 3849 Three Mile Rd., Grand Rapids 49500	KENT
D D. & J. Gravel Co., R#2, 4950 Mason Rd., Howell 48843 Dean & Son, N. Pine St., Onaway 49765 Delta County Road Commission, P. O. Box 298, Escanaba 49829 Delton Excavating Co., Cloverdale 49035 DeVries & Sons, 959 Bristol Ave. NW, Grand Rapids 49504 DeWent Gravel Co., U.S. #21, Hudsonville 49426 Dickinson County Road Commission, P. O. Box 509, Iron Mountain 49801 Dowling, Bernard, Trucking, R#1, Long Rapids Rd., Alpena 49707 Dubey, Wayne, Sand & Gravel, R#3, Alpena 49707 Dunbar, Leo, 7658 U.S. 131 S., Cadillac 49601 Dyer Company, McBrides 48852	LIVINGSTON PRESQUE ISLE DELTA BARRY KENT OTTAWA DICKINSON ALPENA ALPENA WEXFORD MONTCALM, KENT
E Eastman Gravel Pit, R#1, 422 Stover Rd., Standish 48658 Eaton County Road Commission, P. O. Box 110, Charlotte 48813 Eckley, Harry E., Pioneer, Ohio 43554 Edwards, Melvin, Wayland 49348 Ehinger Bros. Excavating Co., 350 M-30, West Branch 48661 Eichenberg, Howard, Contr., White Cloud 49349 Emmet County Road Commission, Petoskey 49770	ARENAC EATON HILLSDALE ALLEGAN OGEMAW NEWAYGO EMMET
F Fenton Gravel Co., Inc., 11301 Fenton Hill Rd., Fenton 48430 Ferguson Excavating Co., 5360 N. State Rd., Davison 48423 Fiser Supply Co., 1617 E. Jolly Rd., Lansing 48900 Fisher Sand & Gravel Co., 921 S. Jefferson Ave., Midland 48640 Fitzgerald, Fred, Gravel Co., 3713 E. Six Mile Creek, Owosso 48867 Flemming Gravel Co., Allegan 49010 Fox Valley Constro. Co., Box 827, Appleton, Wisconsin 54910 Fuoss Gravel Co., R#1, Durand 48429	LIVINGSTON GENESEE INGHAM ISABELLA SHIAWASSEE ALLEGAN MARQUETTE, DELTA, BARAGA, ONTONAGON, MENOMINEE SHIAWASSEE
G Genesee Gravel Co., Swartz Creek 48473 George, Jerry, Sand & Gravel, Inc., Harrisville 48740 Gillespie, Oliver & Sons, R#3, St. Johns Gillette Sand & Gravel, 9741 E. M-78, Haslett 48840 Glancy, R. E., Inc., 1055 S. Bay Dr., Tawas City 48763 Globe Ready Mix, Norrie Loc., Ironwood 49938 Gogebic County Road Commission, Courthouse, Bessemer 49911 Gooding, O. E. & Co., (Whittaker & Gooding Co.), 5800 Cherry Hill Rd., Ypsilanti 48197 Grand Rapids Gravel Co., 2100 Chicago Dr. SW, Grand Rapids 49509	GENESEE ALCONA CLINTON SHIAWASSEE IOSCO GOGEBIC GOGEBIC WASHTENAW KENT

SAND AND GRAVEL (CON'T)

Name and Address (Michigan)	County
Grand River Gravel Co., Box 494, Owosso 48867 Grand Valley Gravel Co., 10450 Linden Dr., R#5, Grand Rapids 49504	SHIAWASSEE OTTAWA GRATIOT
Gratiot County Road Commission, Ithaca 48847 Great Lakes Foundry Sand Co., 1217 Francis Palms Bldg., Detroit 48201 (S) Great Lakes Gravel Co., Inc., 2900 Auburn Rd., Utica 48087	TUSCOLA MACOMB
H Halliday Sand & Gravel, Inc., Houghton Lake 48629 Hanna Mining Co., 100 Erieview Plaza, Cleveland, Ohio 44114 Harmon Sand & Gravel Co., 3365 Harmon Rd., St. Johns 48879 Hayes, S. G., Land Development Co., 17700 Northland Park Court, Southfield 48075 Hayes Washed Sand & Gravel Co., Inc., Box 157, Northville 48167	ROSCOMMON IRON CLINTON WAYNE OSCEOLA (HMS) HILLSDALE HOUGHTON MARQUETTE
Hersey Sand & Gravel Div., J. P. Burroughs & Son, Hersey 49639 Hillsdale County Road Commission, Hillsdale 49242 Hocking, George, Construction Co., South Range 49963 Hodgins, Ken & Sons, Marquette 49855 Holloway Sand & Gravel Co., Inc. (Holloway Construction Co.) 29250 Wixom Rd., Box 247, Wixom 48096 Holly Sand & Gravel Plant, J. P. Burroughs & Son, Inc., 16240 Tindall Rd., Davisburg 48019 Holmberg, Gunnar F., R#1, Gladstone 49837 Hoover Brothers, 1139 Tripp Rd., Waldron 49288 Houghton County Road Commission, Royce Rd., Hancock 49930 Hubscher & Son, P. O. Box 411, Mt. Pleasant 48858 Huizenga Gravel Co., 10015 Gordon, Zeeland 49464 Hunt, C. R., Constr. Co., Cass City 48726 Huron County Road Commission, P. O. Box 270, Bad Axe 48413	VARIOUS OAKLAND (HMS) DELTA HILLSDALE HOUGHTON ISABELLA, GRATIOT OTTAWA TUSCOLA HURON
Ingham County Road Commission, Mason 48854 Ionia County Road Commission, P. O. Box 76, Ionia 48846 Iosco County Road Commission, P. O. Box 31, East Tawas 48730 Ireland & Lester Co., Inc., 220 N. Wayne St., St. Joseph 49085 Iron County Road Commission, Crystal Falls 49920 Isabella County Road Commission, R#2, Mt. Pleasant 48858	INGHAM IONIA IOSCO BERRIEN IRON ISABELLA
J Jackson Sand & Gravel, R#2, Reading 49274 Jennings, Inc., 14300 Shields Rd., Holly 48442 John R. Sand & Gravel Co., 2272 Seymour L. Rd., Oxford 48051	HILLSDALE OAKLAND OAKLAND
K Kalamazoo County Road Commission, P. O. Box 2127, 3801 E. Kilgore Rd., Kalamazoo 49003 Kalkaska County Road Commission, Kalkaska 49646 Kent County Road Commission, 1500 Scribner, NW, Grand Rapids 49504 Keweenaw County Road Commission, Mohawk 49950 K-V Gravel Co., 403 Cherokee Dr., Fremont 49412 Kemler Brothers, 100 South St., Rochester 48063 Ketchum Gravel & Ready-Mix, Inc., R#3, Mason 48854 Kiell Excavating Co., 2046 M-140, Niles 49120 Killins Gravel Co., 3305 W. Liberty, P. O. Box 1046, Ann Arbor 48106 Klett Construction Co., Hartford 49057 Klump Bros. Gravel Co., 4950 Loveland Rd., Grass Lake 49240 Koenig Fuel & Supply Co., 1486 Gratiot Ave., Detroit 48207 Kruse Gravel Pit, 1090 W. Clark Rd., Ypsilanti 48197 Kurtz Gravel Co., G-5300 N. Dort Hwy., Flint 48505	KALAMAZOO KALKASKA KENT KEWEENAW NEWAYGO OAKLAND INGHAM BERRIEN WASHTENAW (HMS) VAN BUREN JACKSON OAKLAND (HMS) WASHTENAW GENESEE

SAND AND GRAVEL (CON'T)

Name and Address (Michigan)	County
L Lake County Road Commission, Baldwin 49304	LAKE
Lake Superior & Ishpeming R.R., 105 Washington, Marquette 49855	MARQUETTE
LaMar Gravel Co., Inc., R#1, Grawn 49637	GRAND TRAVERSE
Lapeer County Road Commission, 44 Park St., Lapeer 48446	LAPEER
Leelanau County Road Commission, Suttons Bay 49682	LEELANAU
Lenawee County Road Commission, 1160 N. Main St., Adrian 49221	LENAWEE
Lilac & Moore, East Jordan 49727	CHARLEVOIX
Lindberg & Sons, Inc., Box 308, Ishpeming 49849	MARQUETTE
Livingston County Road Commission, 918 North St., Howell 48843	LIVINGSTON
Luce County Road Commission, P. O. Box 401, Newberry 49868	LUCE
Lyon Sand & Gravel Co., (Div. Ed. C. Levy Co.) 9300 Dix, Dearborn 48120	OAKLAND (HMS)
M Mackinac County Road Commission, St. Ignace 49781	MACKINAC
Macomb County Road Commission, 115 Groesbeck Hwy., Mt. Clemens 48043	MACOMB
Macomb Sand & Gravel Co., 3295 Auburn Rd., Utica 48087	MACOMB
Mangene, Mike, Inc., Cedarville 49719	MACKINAC
Manistee County Road Commission, 425 Parkdale Ave., Manistee 49660	MANISTEE
Manley Sand Div., Martin Marietta Corp., Rockton, Illinois 61072	BERRIEN
Manning & Locklin Gravel Co., Box 216, Northville 48167	WAYNE
Marby & Melton, 3331 Adams Rd., Pontiac 48058	OAKLAND
Marquette County Road Commission, Box 10, Ishpeming 49849	MARQUETTE
Marsak Sand & Gravel, 23633 Deanhurst, St. Clair Shores 48080	MACOMB
Martin, Harold L., Box 54, Westphalia 48894	CLINTON
Marvic & Sons, 1514 N. 16th, Escanaba 49829	DELTA
Mason County Road Commission, P. O. Box 247, Scottville 49454	MASON
Mason, Hugh H. & Sons, R.F.D. #1, Gaylord 49735	CHEBOYGAN, OTSEGO
McCormick Sand Corp. 4912 Russel Road, Muskegon 49440	MUSKEGON
McGuirk, Jim & Sons, 616 S. Adams St., Mt. Pleasant 48858	ISABELLA
McMahon Bros., Iron River 49935	IRON
Mecosta County Road Commission, 1105 E. Maple St., Big Rapids 49307	MECOSTA
Medusa Postland Cement Co., Box 5668, Cleveland, Ohio 44101	CHARLEVOIX
Menominee County Road Commission, 3222 10th St., Menominee 49858	MENOMINEE
Mickelson Corp., 435 Granger Rd., Oxford 48051	OAKLAND (HMS)
Midland Contracting Co., 613 Water St., Bay City 48640	BAY
Midland County Road Commission, Midland 48640	ST. CLAIR
Miller, George & Sons, Inc., Niles Rd., St. Joseph 49085	BERRIEN
Miller Prod. & Supply Co., North U.S. 2, Iron Mountain 49801	DICKINSON
Miller, Paul C. Co., 10300 Sparta Ave., Sparta 49345	KENT, MUSKEGON, NEWAYGO, OCEANA
Millikin, Jack, Inc., Grayling 49738	KALKASKA
Molesworth Contracting Co., 321 Park Ave., Yale 48097	MACOMB, SANILAC, ST. CLAIR, LAPEER
Montero, Anthony J., I-75 Business spur, Sault Ste. Marie 49783	CHIPPEWA
Montcalm County Road Commission, Stanton 48888	MONTCALM
Moore Bros. Sand & Gravel, 7635 Wayne Rd., Wayne 48184	WAYNE
Morgan Sand & Gravel Co., 45095 Ryan Rd., Utica 48087	MACOMB, LIVINGSTON
Morgan, Al Sand Co., 26291 Pennsylvania Rd., Romulus 48174	WAYNE
Murawski, Edward, Filion 48432	HURON
Muskegon Gravel Div., 4-Star Excavating Co., 1608 Creston St., Muskegon 49442	OTTAWA
N Nashville Gravel Co., R#2, Nashville 49073	BARRY (HMS)
Natural Aggregates Corp., 65545 Mound Rd., Romeo 48065	MACOMB, LIVINGSTON
Neuman Sand & Gravel, G-5281 Deland, Flushing 48433	GENESEE
New Hudson Sand & Gravel, Inc., P. O. Box 174, New Hudson 48165	OAKLAND

SAND AND GRAVEL (CON'T)

Name and Address (Michigan)	County
Nieb Concrete Prod. Co., (Niles Sand & Gravel Div.), 1406 S. 11th St., Niles 49120	CASS
Northeast Gravel & Excav. Co., 4300 Cannonsburg Rd., Belmont 49306	KENT
Northeast Materials, Inc., Bryan, Ohio 43506	HILLSDALE
Northern Concrete Prod. Co., Harbor Springs-Conway Rd., Petoskey 49770	EMMET
Nugent Sand Co., Inc., 2875 Lincoln St., Muskegon 49440	MUSKEGON
O Oceana County Road Commission, P. O. Box 112, Hart 49420	OCEANA
Ogemaw County Road Commission, 223 Thomas St., West Branch 48661	OGEMAW
Ontonagon County Road Commission, 415 Spar St., Ontonagon 49953	ONTONAGON
Oscoda County Road Commission, Mio 48647	OSCODA
Otisville Stone Co., 12150 N. State Rd., Otisville 48463	GENESEE
Ottawa County Road Commission, Grand Haven 49417	OTTAWA
Oxford Mining Co., Davisburg 48019	OAKLAND
P P. & B. Gravel Co., R#3, Ithaca 48847	GRATIOT
Paas, Harold, Three Rivers 49093	ST. JOSEPH
Palmer Sand & Gravel, 2531 E. South St., Jackson 49201	JACKSON
Paris Gravel Co., R#1, Big Rapids, 49307	MECOSTA
Peninsula Asphalt & Constr. Co., Box 726, Traverse City 49684	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	KALAMAZOO
Peters Sand & Gravel, 3548 N. Deckerville Rd., Lupton 48635	OGEMAW (HMS)
Petersen Gravel & Excav., 350 Norwood, Rockford 49341	KENT
Pickitt & Schreur, Inc., Box 149, Allegan 49010	ALLEGAN (HMS), BARRY, OTTAWA, CALHOUN, CLINTON, ST. JOSEPH, KALAMAZOO, KENT, MISSAUKEE, JACKSON, WASHTENAW, LENAWEE, IONIA
Piispanen, Elmer, Sand & Gravel, R#1, Box 80, Bessemer 49911	GOGEBIC
Pitlik & Wick, Inc., Eagle River, Wisconsin 54521	GOGEBIC
Polhamus Sand & Gravel, Ovid 48866	SHIAWASSEE
Portable Aggregate Producers, Inc., Box 237, Walled Lake 48088	OAKLAND
Powell Sand & Gravel, Fairgrove 48733	TUSCOLA
Presque Isle County Road Commission, Rogers City 49779	PRESQUE ISLE
Pryor Bros., R#2, Grand Ledge 48837	EATON, CLINTON
R Ray Industries, Inc., Box 165, Oxford 48051	MACOMB
Rieth-Riley Const. Co., Inc., P. O. Box 566, Sturgis 49091	BERRIEN, CASS, KENT, CALHOUN, OTTAWA, BRANCH, OCEANA, EATON, ST. JOSEPH, NEWAYGO
Riverside Sand & Gravel Co., 1050 Maynard Ave., SW, Grand Rapids 49504	KENT
Riverview Gravel Co., 805 Taylor St., Jenison 49428	OTTAWA
Rocks, Sand, Gravel Co., 2401 Chicago Dr., Grand Rapids 49509	KENT
Roscommon County Road Commission, P. O. Box 117, Roscommon 48653	ROSCOMMON
Roslund Gravel Co., 6902 Jerome Rd., Alma 48801	GRATIOT
Ryno Sand & Gravel, Box 778, Watervliet 49098	BERRIEN
S St. Joseph County Road Commission, Centerville 49032	ST. JOSEPH
Saginaw Core Sand Co., 2924 Carrolton Rd., Saginaw 48604 (S)	GENESEE
Saginaw County Road Commission, Saginaw 48601	SAGINAW

SAND AND GRAVEL (CON'T)

Name and Address (Michigan)	County
Salem Gravel & Constr. (J. P. Burroughs & Son, Inc.) 5175 Oakhill Rd., Clarkston 48016	OAKLAND
Sand Products Corp., 2489 First Nat'l. Bank Bldg., Detroit 48226 (S)	MANISTEE, MUSKEGON
Sanilac County Road Commission, Sandusky 48471	SANILAC
Sargent Sand Co., 2840 Bay Rd., Saginaw 48604 (S, SG)	MASON, TUSCOLA, BAY, SAGINAW
Scarlett Gravel Co., 1721 S. Cedar, Holt 48842	INGHAM
Schoolcraft County Road Commission, P. O. Box 152, Manistique 49854	SCHOOLCRAFT
Schworm, I. V., & Son, Inc., Box 162, Traverse City 49684	GRAND TRAVERSE
Sheldon Contractors, 4035 Dove Rd., Port Huron 48060	ST. CLAIR
Shenk Gravel Co., (Donald Shenk, Sr.), Durand 48429	SHIAWASSEE
Shiawassee County Road Commission, Corunna 48817	SHIAWASSEE
Short Hills Gravel Co., Manchester 48158	WASHTENAW
Sky-Way Sand & Gravel Co., 4060 E. Holt Rd., Holt 48842	INGHAM (HMS)
Smith, D. L. Sand & Gravel, East Jordan 49727	CHARLEVOIX
Snelenberger Gravel, 13164 Seymour Rd., Montrase 48417	GENESEE
SooLine Railroad Co., Box 530, Minneapolis, Minn. 55440	ALGER, MACKINAW
South Flint Gravel Co., P. O. Box 275, Grand Blanc 48439	OAKLAND
Spartan Aggregates, Inc., 1740 S. Cedar, Holt 48842	EATON, INGHAM, OAKLAND, SHIAWASSEE
Stamm Bros. Gravel Co., R#1, Adrian 49221	LENAWEE
Standard Gravel Co., Cement City 49233	LENAWEE
Standard Ready-Mix, Inc., Lansing 48900	INGHAM
Standard Sand Co., P. O. Box 290, Grand Haven 49417 (S)	OTTAWA, VAN BUREN
Stanley, Jess, Gravel, R#3, Houghton Lake 48629	ALPENA, CLARE, GLADWIN, ROSCOMMON, CRAWFORD
Steel Brothers, 458 W. Sunset Dr., Roscommon 48653	ROSCOMMON
Stidham Gravel Co., 227 S. Michigan Ave., Hastings 49058	BARRY
Stony Lake Sand & Gravel, R#1, Augusta 49012	KALAMAZOO
Straits Aggregate & Equip. Corp., Box 119A, R#1, Oscoda 48753	VARIOUS
Superior Sand & Gravel, Inc., 1028 Ethyl Ave., Hancock 49930	HOUGHTON
Syers Gravel Co., Inc., R#2, Hesperia 49421	OCEANA
T Tecumseh Gravel Co., P. O. Box 247, Tecumseh 49286	LENAWEE
Telischak Sand & Gravel, Inc., 12300 Farmington Rd., Livonia 48150	WAYNE
Thomas, Alfred H., 250 W. Park Ave., Vicksburg 49097	KALAMAZOO
Thompson Constr. Co., 234 W. Garfield, Coldwater 49036	BRANCH
Thompson-McCully Sand & Gravel Co., 5905 Belleville Rd., Belleville 48111	WASHTENAW
Thomson Sand & Gravel, 48399 W. 7 Mile Rd., Northville 48167	WAYNE
Thornton Contr. Co., Inc., 1028 Ethel Ave., Hancock	CHIPPEWA
Thumm's Sand & Gravel, 117 S. Grove St., Ypsilanti 48197	WASHTENAW
Town's Trucking Co., P. O. Box 577, Ludington 49431	MASON, OCEANA
Tuckey Block Co., Cass City 48726	TUSCOLA
Tuscola County Road Commission, 120 Millwood St., Caro 48723	TUSCOLA
U Underwood Sand & Gravel Co., 2255 Hamlin Rd., Utica 48087	OAKLAND
Union City Gravel Co., Union City 49094	BRANCH
Utterback, C. E., Co., 415 Pickard St., Mt. Pleasant 48858	ISABELLA
V Van Buren County Road Commission, Paw Paw 49079	VAN BUREN
Van Every, Charles, Northville 48167	OAKLAND
Vermontville Gravel Co., R#1, Vermontville 49096	EATON
Vollmer Sand & Gravel, Pigeon 48755	HURON
Voss, Harold O., R#2, Fennville 49408	ALLEGAN

SAND AND GRAVEL (CON'T)

Name and Address (Michigan)	County
W Waanders, Ben, & Son, R#5, Box 30, Allegan 49010	ALLEGAN
Wagner Ready-mix, 220 N. 3rd St., Harbor Beach 48441	HURON
Walling Gravel Co., P. O. Box 52, St. Johns 48879	CLINTON
Washtenaw County Road Commission, 555 N. Zeeb Rd., Ann Arbor 48103	WASHTENAW
Washtenaw Sand & Gravel, Inc., 4984 Earhardt, Ann Arbor 48105	WASHTENAW
Waterbury, Wallace Gravel Co., Coldwater 49036	BRANCH (HMS)
Wayne Sand & Gravel, Inc., 39891 Ecorse Rd., Wayne 48184	WAYNE
Weaver, Ronald, Gravel Co., Box 116, Dansville 48819	INGHAM, JACKSON, SHIAWASSEE
Weber's Sand & Gravel, 2595 Lapeer Rd., Pontiac 48055	OAKLAND
West Branch Concr. Prod., Inc., 3350 Rou, West Branch 48661	OGEMAW
West Lansing Gravel Co., 1500 E. High St., Lansing 48900	INGHAM
West Shore Constr. Co., Inc. Zeeland 49464	EATON, OTTAWA
Wexford Gravel Co., P. O. Box 472, Cadillac 49601	WEXFORD
Wexford County Road Commission, P. O. Box 88, Cadillac 49601	WEXFORD
Wheeler Transit Mix Concrete Co., Box 65-A, Greenville 48838	MONTCALM
Whit Pond Gravel Co., RFD #1, Cassopolis	CASS
Whitehall Gravel Co., 3278 Colby St., Whitehall 49461	MUSKEGON
Whitehead, I. L., Co., Sault Ste. Marie 49783	SCHOOLCRAFT, CHIPPEWA, CRAWFORD
Whittaker & Gooding Co., 5800 Cherry Hill Rd., Ypsilanti 48197	WASHTENAW (HMS)
Whittum's Gravel Co., Eaton Rapids 48827	EATON
Wilkinson Sand & Gravel Co., 2284 Auburn Rd., Pontiac 48055	OAKLAND
William Bros. Asphalt Co., Box 78, Ionia 48846	IONIA
Willson Bros., Inc., Rives Junction 49277	JACKSON
Wurth Concrete & Aggregates, Inc., 3734 10th St., Menominee 49858	MENOMINEE
Wysond Gravel Co., Traverse City 49684	GRAND TRAVERSE
Y Yerington, John G., R#3, Box 34, Benton Harbor 49022	BARRY, BERRIEN, CASS HILLSDALE, ALLEGAN, CALHOUN, IONIA, CLINTON, VAN BUREN

(HMS) = Heavy media separation equipment
 (S) = Industrial Sand only
 (S, SG) = Industrial Sand in addition to sand & gravel.

Total commercial sand and gravel producers 239
 Total non-commercial sand and gravel producers 75
 TOTAL SAND & GRAVEL PRODUCERS IN MICHIGAN IN 1966 314

ALPENA

5th, (W), Cement (1st), Stone for cement mfg. (2nd), Shale for cement mfg. (1st), 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	" " "
Huron-Portland Cement Co.	NE 30 31N 7E	Shale
	24 31N 8E	Cement
	13 31N 8E	Limestone, crushed
Mich. State Hwy. Dept.	(contractor)	Sand and gravel

ANTRIM

59th - \$431,319: Shale for cement mfg., Sand and Gravel

Antrim Co. Road Comm.	NE NE 16 31N 6W	Sand and gravel
	NE NE 2 29N 6W	
	NW NW 33 30N 6W	
	NE SW 36 32N 9W	
Penn-Dixie Portland Cement Co.	SE 23 32N 8W	Shale
Medusa Portland Cement Co.	NW SW 24 32N 8W	"
Mich. State Hwy. Dept.	(contractor)	Sand and gravel

ARENAC

44th - \$1,037,138: Petroleum (11th, 2.1%), Stone, Sand and Gravel

Arenac Co. Road Comm.	NW 5 19N 7E	Limestone, crushed
		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

BARAGA

77th - \$105,000: Sand and Gravel, Stone.

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

BARRY

55th - \$572,279: Sand and gravel, Petroleum, Marl (5th), Peat

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
E. R. Hamilton	25 2N 7W	Marl
Nashville Gravel Co.	NE NW 10 1N 7W (HMS)	Sand and gravel
	SE SE 15 2N 7W	
	SW SW 14 2N 7W	

BARRY (con't.)

Stidnam Gravel Co.	SW NW 12 3N 9W	Sand and gravel
John G. Yerington	NW SW 2 2N 9W	" " "
	Robert Ford Pit	
	Boze Pit	

BAY

15th (W), Cement (4th), Petroleum (9th), Lime.

Aetna Portland Cement Co.	NE 14 14N 5E	Cement
Midland Contracting Co.	Bay City	Sand and gravel
Monitor Sugar Div.	Bay City	Lime
Sargent Sand Co.	Bay City	Sand

BENZIE

83rd - \$4,000: Sand and Gravel.

Benzie Co. Road Comm.	SE NE 7 27N 14W	Sand and gravel
	NE NE 11 26N 15W	
	SW NE 8 26N 14W	
	SW SE 2 26N 14W	
	NE NE 14 26N 15W	
	SW NE 14 26N 15W	
	SE SE 33 25N 13W	
Ivan Schworm & Son, Inc.	NW NW 14 26N 15W	" " "
	SW SW 16 27N 13W	
	SE NE 11 26N 15W	

BERRIEN

32nd - \$2,449,713: Sand and Gravel (5th, 4%) Industrial Sand, Marl (6th).

Arrowhead Silica Corp.	SW5, NW 8 6S 19W	Sand, industrial
J. V. Burkett	St. Joseph	Sand and gravel
Crosby Marl Co.	23 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-Marrietta	18 6S 19W	Sand, industrial
George Miller & Sons, Inc.	St. Joseph	Sand and gravel
Ryno Gravel Co.	NE 27 3S 17W	" " "
Rieth-Riley Const. Co.	NE SE 18 7S 19W	" " "
	Spears pit, 3 Oaks	
	Rieth pit, Niles	
	Watervliet	" " "
Alden White Bldg. Contractor	Dunaetz pit, Eau Claire	
John G. Yerington	Neib pit, Buchanan	
	Hanson pit &	
	NE NW 36 6S 18W	

BRANCH

61st - \$384,803: Sand and Gravel, Marl (9th, 2%).

Branch Co. Road Comm.	N½ SE¼ 4 7S 5W	Sand and gravel
	SE SE 7 8S 7W	
Mich. State Hwy. Dept.	(contractor)	" " "

BRANCH (con't.)

Pickitt & Schreur, Inc. Taylor & Son	Batavia Pit SW SW 4 8S 6W NW NW 16 8S 5W	Sand and gravel Marl
Thompson Constr. Co. Union City Gravel Co. Wallace Waterbury Gravel Co.	Coldwater Union City Coldwater (HMS)	Sand and gravel " " " " " "

CALHOUN

19th - \$8,584,184: Petroleum (2nd, 17%), Natural Gas (4th, 12%), Sand and Gravel, Marl (2nd, 26%)

Calhoun Co. Road Comm.

5 4S 7W SW 9 3S 7W	Sand and gravel
24 & 25 4S 7W 5 2S 4W	
34 3S 6W 32 & 33 2S 5W	
14 2S 5W SW 12 1S 6W	
27 2S 6W NE 13 4S 6W	

Case Brothers 28 4S 7W Marl

Cole Brothers N $\frac{1}{2}$ 33 1S 8W Sand and gravel

NE 17 3S 4W " " "

Emil Combs Grav. & Ready Mix NE SE 18 4S 5W " " "

Mich. State Hsy. Dept. (contractor) " " "

Pickett & Schruer NW 15 1S 7W

Harlan Spoor NE 21 4S 7W Marl

Statler Redy Mixed Concrete Co. SW NE 15 1S 7W

NW SE 33 1S 8W

S $\frac{1}{2}$ 4 2S 8W

Rieth-Riley Const. Co. S $\frac{1}{2}$ SW 7 3S 5W Sand and gravel

NE NW 16 2S 7W and various

CASS

68th - \$224,393: Sand and Gravel, Marl (3rd, 17%), Petroleum.

J. V. Burkett NW NE 19 6S 16W & spitzer pit

Cass Co. Road Comm. NE NE 20 5S 13W Sand and gravel

NE SE 16 6S 15W

SE SE 17 6S 13W " " "

Nieb Concrete Prod NW NW 15 7S 16W Marl

Pipher's Marl Svc. NE 9 8S 13W " " "

Poehlman & Sons 13 7S 16W

Rieth-Riley Const. Co. Roslund pit, Niles Sand and gravel

John G. Yerington NW SE 10 5S 16W " " "

SE SE 16 6S 13W

NW SW 27 6S 16W

Whit Pond Gravel Co. SW SW 14 6S 15W " " "

CHARLEVOIX

18th (W), Cement (4th, 8%), Stone for cement mfg. (6th, 4%), Sand and Gravel.

Norman Bartlett NE SW 30 32N 6W Sand and gravel

Lilac & Moore SE NW 1 32N 6W " " "

SE NW 27 33N 6W

SW NE 31 33N 6W

Medusa, Portland Cement Co. SW 28 34N 8W Cement and sand and gravel

Mich. State Highway Dept. (contractor) Sand and gravel

CHARLEVOIX (con't.)

Pickett & Schreur, Inc.	SE SW 26 32N 5W	Sand and gravel
D. L. Smith Sand & Gravel	East Jordan	" " "

CHEBOYGAN

74th - \$123,075: Stone, Sand and Gravel

Afton Stone & Lime	SE 25 35N 2W	Limestone, crushed
Charlevoix Lime & Stone Co.	SE 25 35N 2W	" " "
Hugh H. Mason & Sons	SE SE 32 33N 3W	Sand and gravel
Mich. State Hwy. Dept.	(contractor)	" " "

CHIPPEWA

27th, (W), Stone, Sand and Gravel

Bethlehem Mines Corp.	E $\frac{1}{2}$ SW 36 42N 4E	Dolomite, crushed
Anthony J. Monteno	Sault Ste. Marie	Sand and gravel
Thornton Constr. Co.	Hancock	" " "
I. L. Whitehead Co.	NE NE 23 47N 1W	" " "
	SW NE 1 43N 2E	

CLARE

36th - \$1,838,174: Petroleum (5th, 4%), Sand and Gravel, Natural Gas, Natural Gas Liquids (5th, 0.3%).

Clare Co. Road Comm.		Sand and gravel
Hubscher & Son, Inc.	NE NE 26 17N 4W	" " "

CLINTON

57th - \$538,990: Sand and Gravel, Shale (for clay products)

Boichot Concrete Prod.	NW NW 27 5N 2W (HMS)	Sand and gravel
	NE SW 3 5N 2W	
Clinton Co. Road Comm.	(contractor)	" " "
Oliver Gillespie & Sons	St. Johns	" " "
Grand Ledge Clay Prod.	SE 34 5N 4W	Shale (for tile mfg.)
Harmon Sand & Gravel	St. Johns	Sand and gravel
Ionia Co. Road Comm.	(contractor)	" " "
Mich. State Hwy. Dept.	Duplain Pit	" " "
Pickitt & Schreur, Inc.	SE SE 29 5N 4W	" " "
Pryor Bros. Gravel Co.	NW SW 17 5N 3W	
	NE NW 33 5N 4W	
	SE NW 34 8N 2W	

Walling Gravel Co.

CRAWFORD

40th - \$1,165,038: Petroleum, Natural Gas, Sand and Gravel, Natural Gas Liquids.

Crawford Co. Road Comm.	NE SE 27 25N 4W	Sand and gravel
	SE SW 24 28N 2W	" " "

CRAWFORD (con't.)

Crawford Co. Road Comm.	NW SE 27 28N 3W	Clay
	NE NE 24 27N 2W	Sand and gravel
	SW SW 27 26N 3W	
Jack Millikin	NW 34 26N 2W	" " "
	NE 1 25N 3W	

DELTA

72nd - \$164,600: Sand and Gravel, Stone.

Bichler Gravel Co.	NE 12 39N 23W	Sand and gravel
	E½ NE 14 40N 23W	" " "
	SW 1 39N 23W	
Caspian Constr. Co.	SE SE 14 40N 23W	Limestone, crushed
	Rapid River	Sand and gravel
Delta Co. Road Comm.	SE SW 11 29N 21W	Limestone, crushed
	NE NE 5 38N 24W	Sand and gravel
	SW NE 12 29N 23W	
	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	
Gunnar F. Holmberg	15 40N 22W	" " "
Marvic & Sons	Bark River	" " "
I. L. Whitehead Co.		" " "

DICKINSON

7th - \$23,938,890: Sand and Gravel, Iron Ore, Stone.

Aggregate Specialties, Inc.	NW NW 26 42N 30W	Feldspar
	SE SW & SW SE 30 42N 29W	Amphibolite
Caspian Const. Co.	NE NE 7 40N 30W	Sand and gravel
	NW NW 26 42N 30W	
	NE NW 14 41N 30W	
	NE NE 19 40N 30W	" " "
Champion, Inc.	SE NE 20 39N 28W	" " "
	NE NE 19 40N 30W	" " "
Dickinson Co. Road Comm.	SE NW 7 41N 27W	" " "
	NE 33 42N 30W	" " "
Felch Quarry Corp.	SE SW 26 42N 28W	Basalt, crushed
Fox Valley Constr. Co.	1 39N 30W	Dolomite, crushed
Groveland Mine (M. A. Hanna Co.)	Open pit 31 42N 29W	Sand and gravel
Miller Products & Supply Co.	NW SW 7 40N 30W	Iron Ore
		Fill sand

EATON

51st - \$65,409: Stone, Sand and Gravel, Shale (for clay products), Peat.

Briggs Ready-Mix and Gravel	NW 24 2N 5W (HMS)	Sand and gravel
Cheney Limestone Co.	NE 29 1N 6W	Limestone, crushed
Grand Ledge Clay Products	SE 3 4N 6W	Shale (for tile mfg.)
Hilu Peat Co.	Charlotte	Peat
Pryor Brothers	NW SW 7 2N 4W	Sand and gravel
Rieth-Riley Constr. Co.	NW SE 8 2N 4W	" " "
	Almy pit, Charlotte	

EATON (con't.)

Spartan Aggregates, Inc.					Sand and gravel
Whittum's Gravel Co.	NE SE 5 1N 3W	"	"	"	"
John G. Yerington					

EMMET

17th - \$8,993,897: Cement (6th), 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	
Northern Concrete Products Co.		2 34N 6W	Sand and gravel for ready-mix
Penn-Dixie Cement Corp.		2 34N 6W	Cement
		3 34N 6W	Limestone, sand and gravel (for cement)

GENESEE

56th - \$543,692: Sand and Gravel, Petroleum.

Cliffs Gravel Co.	Flushing		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	" " "	
Kurtz Gravel Co.	SE SW 1 7N 8E	" " "	
	SE NE 20 7N 8E		
Mich. State Hwy. Dept.	(contractor)		
Neumann Sand & Gravel	W½ 23 8N 5E	Sand and gravel	
Otisville Stone Co.	N½ 15 9N 8E	" " "	
Saginaw Core Sand Co.	SE NE 28 9N 8E	" " "	
Snellenberger Gravel Co.	SE 16 9N 5E	" " "	

GLADWIN

46th - \$992,190: Petroleum (8th, 3%), Sand and Gravel.

Jess Stanley Gravel	SE SE 12 20N 2W	Sand and gravel
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GOGEBIC

70th - \$197,000: Sand and Gravel.

Caspian Constr. Co.	SW NW 14 46N 44W	NE SW 44 6N 42W	Sand and gravel
	SW NE 28 48N 45W	SE NE 17 49N 45W	
	SW NE 26 45N 40W		
Globe Ready Mix			" " "
City of Ironwood	NE SE 34 47N 47W	" " "	
Elmer Piispanen Sand & Gravel	Bessemer	" " "	
Pitililk & Wick, Inc.	Ironwood	" " "	

GRAND TRAVERSE

65th - \$274,000: Sand and Gravel.

Lamar Gravel Co.	SW 27 26N 11W	SW 32 27N 10W	Sand and gravel
		9 27N 11W	

GRAND TRAVERSE (con't.)

Mich. State Hwy. Dept.	(contractor)	Sand and gravel
I. W. Schworm & Son, Inc.	Traverse City	" " "
Wysong Gravel Co.	Traverse City	" " "

GRATIOT

20th, (W), Bromine (3rd), Salt (5th), Magnesium Compounds (4th), Ca-Chloride & Ca-Mg-Chloride (4th), Sand and Gravel, Petroleum, Sulfur, Natural Gas.

Dyer Co.	Carson City	
Gratiot Co. Road Comm.	SE SE 19 12N 4W SW NW 21 12N 4W	Sand and gravel
	NE NE 3 12N 4W NE SW 29 12N 3W	
Hubscher & Son	NW SE 17 12N 1W SE SW 10 10N 1W	" " "
Leonard Refineries	NW 3 10N 4W	
Michigan Chemical Corp.	Alma	Sulfur
	St. Louis	Bromine, calcium- Magnesium Chloride, Magnesium Compounds, Salt
P. & B. Gravel Co.	NW SE 9 10N 1W	Sand and gravel
	SE NE 17 10N 1W	
Roslund Gravel Co.	NW NE 26 12N 3W	" " "

HILLSDALE

12th - \$13,615,083: Petroleum (1st, 30%), Natural Gas Liquids (3rd, 28%), Natural Gas (3rd, 13%), Sand and Gravel, Marl.

Bunday Hill Gravel Co.	7 & 8 5S 1W (HMS)	Sand and gravel
H. Eckley	Waldron	" " "
John Hess	14, 5S 3W	Marl
Hillsdale Co. Road Comm.	(11 county-owned pits)	Sand and gravel
Hoover Brothers	NE SE 23 8S 2W	" " "
Jackson Sand & Gravel	Reading	" " "
Northwest Materials, Inc.	Thompson pit	" " "

HOUGHTON

28th - \$3,037,311: Copper (2nd, 5%), Sand and Gravel, Stone.

Calumet & Hecla, Inc.:	SE 12 56N 33W	Native copper
Centennial 3 & 6 Mine	23 56N 33W	
Osceola 13 Mine	Houghton	Sand and gravel
Copper Range Railroad Co.	South Range	" " "
George Hocking Constr. Co.	N $\frac{1}{2}$ 11 & SE 10 55N 34W	Sand and gravel
Houghton Co. Road Comm.	SW 3 56N 32W	
	NW 12 56N 34W	
	SE 11 55N 34W	
Limestone Mountain Co.	Isle Royal Waste Piles	Crushed basalt
Mich. State Hwy. Dept.	NW SW 24 51N 35W	Dolomite, crushed
Superior Sand and Gravel	(contractor)	Sand and gravel
	NE SW 27 55N 34W	" " "

HURON

48th - \$885,527: Stone, Sand and Gravel, Lime, Petroleum.

Huron Co. Road Comm.	SE SE 17 16N 13E	Sand and gravel
Michigan Sugar Co.	Sebewaing	Lime (for sugar Mfg.)
Vollmer Sand & Gravel	NE SE 20 15N 11E	Sand and gravel
Wagner Ready-Mix	E $\frac{1}{2}$ E $\frac{1}{2}$ 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

39th - \$1,175,000: Sand and Gravel (12th, 2%), Lime (not marketed), Peat.

Board of Water & Light	Lansing	Lime, regenerated
Cheney Gravel Co.	NE NE 23 3N 2W	Sand and gravel
Fiser Supply Co.	SW SE 34 4N 2W	" " "
Ingham Co. Road Comm.	Contractor (Weaver)	" " "
Scarlett Gravel Co.	NE NW 25 3N 2W	" " "
	NE SE 24 2N 2W	
Sky-Way Sand & Gravel	NE NE 23 3N 2W (HMS)	" " "
Spartan Aggregates		
Standard Ready-Mix		
Ronald Weaver Gravel Co.	Tobias Pit, Williamston	" " "
	23, 26 2N 2W (4 pits)	
	NW NE 36W 3N 2W	
West Lansing Gravel Co.		

IONIA

66th - \$260,000: Sand and Gravel.

Ionia Co. Road Comm.	NW NE 33 7N 7W SE SE 8 6N 5W	Sand and gravel
	SE NE 24 5N 7W NE SW 18 5N 5W	
	SW SE 21 7N 6W NW SW 28 6N 5W	
	NE SW 15 7N 5W	
Harold L. Martin	Westpnaia	" " "
Williams Bros.	N $\frac{1}{2}$ SE 32 7N 7W &	
	SE 28 & NE 33 7N 5W	

IOSCO

22nd - \$4,836,149: Gypsum, Sand and Gravel.

Iosco Co. Road Comm.	Tawas City	Sand
R. E. Glancy, Inc.	SE NW NW 31 21N 6E	Sand and gravel
Michigan Gypsum Co.	SW 25 21N	Gypsum
National Gypsum Co.	26 35 22N 6E	"
U. S. Gypsum Co.	22 27 21N 7E	"

IRON

13th - \$11,453,393: Iron Ore, Sand and Gravel.

Caspian Constr. Co.	NW NE 31 43N 35W S $\frac{1}{2}$ SW 22 43N 35W	Sand and gravel
Hanna Iron Ore Div., Nat'l. Steel Corp:		
Hiawatha Mine	35 36 43N 35W	Iron Ore

IRON (con't.)

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		
		NW SW 29 42N 32W		
		SE SW 25 44N 34W		
McMahon Bros.		Iron River		
Mich. State Hwy. Dept.		(contractor)		Sand and gravel

ISABELLA

42nd - \$1,086,955: Petroleum, Sand and Gravel, Natural Gas.

Hubscher & Son		20 14N 5W		Sand and gravel
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 28 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		" " "
C. E. Utterback		35 15N 6W		" " "

JACKSON

21st - \$5,135,555: Petroleum (3rd, 12%), Natural Gas (5th, 6%), Sand and Gravel, Stone, Marl, Natural Gas Liquids

Barnes Brothers		Concord (John Pung pit),	Marl	
		Horton (DeMack pit)		
Jackson Co. Road Comm.		(contractor)		Sand and gravel
Jeffrey Limestone Co.		SE 30 2S 2W		Limestone, crushed
Jude Stone Co.		SW SE 31 3S 2E		Sandstone
Klumpp Bros. Gravel Co.		SE SE 1 2S 2E		Sand and gravel
Mich. State Hwy. Dept.		(contractor)		" " "
Palmer Sand & Gravel		SW NW 8 3S 1E		" " "
Ray's Stone Quarry		NE NW 6 4S 2E		Sandstone
Willson Bros., Inc.		Rives Junction		Sand and gravel

KALAMAZOO

38th - \$1,338,175: Sand and Gravel (11th, 2%), Marl (1st, 32%), Peat.

American Aggregates Corp.		SW NW 15 1S 11W		Sand and gravel
Consumers Sand and Gravel		SE NE 13 2S 11W		" " "
Craven's Peat Farm		SW SW 3 3S 10W		Peat
Hayward Dry Marl		8 4S 10W		Marl
Kalamazoo Co. Road Comm.		NE NW 34 1S 11W		Sand and gravel
Mich. State Hwy. Dept.		(contractor)		" " "
Peters Constr. Co.		W $\frac{1}{2}$ NW 8 2S 11W		" " "
		4 4S 12W		
		5 4S 12W		
Pickitt & Schreuer, Inc.	SW SE 23	2S 9W SE SW 23 2S 9W		" " "
		NE NW 6 2S 11W		
Fred Rumz		30 4S 10W		Marl
Stony Lake Sand & Gravel		Augusta		Sand and gravel
Alfred Thomas		Vicksburg		Fill sand

KALKASKA

69th - \$220,907: Petroleum, Sand and Gravel.

Kalkaska Co. Road Comm.	SW NE 33 28N 8W	SE SE 26 25N 8W		Sand and gravel
		SE NE 14 27N 8W		

KENT

23rd - \$4,561,998: Sand and Gravel (4th, 6%), Gypsum, Petroleum, Natural Gas, Peat.

Bestwall Gypsum Div., (Georgia-Pacific Corp.)		SW 34 7N 12W		Gypsum
J. V. Burkett		SW NE 26 8N 10W		Sand and gravel
Central Michigan Sand & Gravel		11 7N 11W		" " "
Chesapeake & Ohio Railroad Co.				" " "
Emerson Chaney	S $\frac{1}{2}$ N $\frac{1}{2}$ SE	11 7N 11W		Peat (moss)
Coit Ave. Gravel Co		29 8N 11W		Sand and gravel
Contractor's Gravel Co.		Sparta		" " "
Cousineau Gravel Inc.		Rockford		" " "
Cross & White		SE 2 7N 11W		" " "
Ed DeVries & Sons		NE 22 7N 12W		" " "
Diekman's Peat Moss		Byron Center		Peat (moss)
Grand Rapids, City of		Grand Rapids		Sand and gravel
Grand Rapids Gypsum Co.		34 7N 12W		Gypsum
Grand Rapids Gravel Co.	E $\frac{1}{2}$ NW SW NE	16 6N 12W		Sand and gravel
		SE SE 32		
Katerberg Landscape Service	SE SW 8 6N 12W	SW SE 23 8N 11W		Peat (humus)
Kent Co. Road Comm.		Grand Rapids		Sand and gravel
	SW SE 36 5N 9W	NW SE 32 5N 11W		
	NE SE 20 6N 9W	NE NE 17 6N 9W		
	SW NE 5 6N 12W	NE NE 32 7N 11W		
	NW SW 26 7N 11W	NW 8 7N 12W		
	NE NW 13 8N 11W	SW NE 23 10N 11W		
	NE SE 13 10N 12W	SE SW 11 10N 12W		
		NW 15 10N 12W		
Paul C. Miller		NW SE 19 8N 11W		" " "
Northeast Gravel & Excavating		NE SW 24 8N 11W		" " "
Peterson Gravel & Excavating		SW SW 12 8N 11W		" " "
Pickitt & Schreuer, Inc.	NE NE 25 9N 11W	NE NE 35 9N 11W		" " "
	SW SE 23 8N 11W	NE 20 7N 10W		
	SE NE 35 9N 11W	W $\frac{1}{2}$ NE 32 8N 11W		
Rieth-Riley Constr. Co.	NW 21 7N 10W	NW NE 31 5N 12W		" " "
		Veenendall pit, Grandville		
Riverside Sand and Gravel		SE SE 33 7N 12W		" " "
Rocks, Sand & Gravel Co.		Wyoming		" " "
Twin Lakes Nursery		NE NW 26 7N 11W		Peat (reed-sedge)

KEWEENAW

34th - \$1,995,612: Copper, Sand and Gravel

Calumet & Hecla, Inc.:		32 57N 32W		Copper
Allouez 3 Mine				
Keweenaw Co. Road Comm.	NW NW 8 58N 30W			Sand and gravel
	SW SW 8 57N 32W			

LAKE

71st - \$188,176: Petroleum, Sand and Gravel.

Lake Co. Road Comm.	SE NW 7 17N 14W	NE SW 21 19N 14W		Sand and gravel
	SE NE 23 18N 13W	NW SE 10 20N 14W		
		SW NW 19 17N 13W		

LAKE (con't.)

Towns Trucking Co. Freesoil Sand and gravel

LAPEER

58th - \$521,958: Petroleum, Sand and Gravel, Ca-Ma Chloride, Natural Gas.

Anderson Peat Co.	NE SE 23 7N 12E	Peat (reed-sedge)
Corey & Hartwig	Hadley	Sand and gravel
J. M. Huber Corp.	Imlay City	Peat (reed-sedge)
Lapeer Co. Road Comm.	SW SE 16 9N 10E NW SW 28 9N 12E	Sand and gravel
	NE NE 1 9N 10E	Calcium-Magnesium Chloride
	NW NW 25 6N 11E SE SW 30 8N 10E	Sand and gravel
	NE SE 11 6N 10E NE NW 1 8N 9E	
Michigan Peat, Inc.	25 7N 12E	Peat (reed-sedge)
Saint Clair Co. Road Comm.		Sand and gravel
Solliere Peat & Sod Co.	SW SW 25 7N 12E	Peat (reed-sedge)
Wilkinson Chemical Co.	SW SW 20 8B 10E	Calcium-Magnesium

LEELANAU

78th - \$92,000: Sand and Gravel.

Leelanau Co. Road Comm.	SE NE 28 30N 12W SE NE 24 31N 12W	Sand and gravel
	NE 32 30N 12W SW 22 28N 13W	
Peninsula Asphalt & Constr. Co.	SE 10 30N 11W SW NW 19 32N 10W	" " "
	NE 16 28N 13W	

LENAWEE

47th - \$958,119: Sand and Gravel (15th, 2%), Clay (for clay products), Natural Gas, Petroleum, Peat.

Adrian Sand & Gravel	Adrian	Sand and gravel
Adrian Sand & Gravel (Tecumseh Materials, Div.)	NE SE 4 6S 4E	" " "
Brady Sand & Gravel	SE 32 5S 4E	" " "
J. V. Burkett	Adrian	" " "
Comfort Brick & Tile Company	SW 2 6S 5E	Clay (for clay products)
Hollaway Sand and Gravel Co., Inc.	SW NW 19 5S 2E	Sand and gravel
Stamm Brothers Gravel Co.	SW NE 19 7S 3E	" " "
Standard Gravel Co.	Cement City	" " "
Tecumseh Gravel Co.	SW NE 4 6S 4E	" " "
Lenawee Co. Road Comm.	NW NW 9 6S 4E	" " "
	NE NE 4 6S 4E	" " "

LIVINGSTON

24th - \$3,820,815: Sand and Gravel (3rd, 7%), Natural Gas, Petroleum.

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.	Hamburg	" " "
D. & J. Gravel Co.	SW SW 32 3N 4E	" " "
Fenton Gravel Co.	NE SE 2 4N 6E	" " "
Livingston Co. Road Comm.	SE NE 4 2N 4E	" " "
	SW NE 31 4N 6E	
	NW NE 26 2N 5E	

LIVINGSTON (con't.)

Mich. State Hwy. Dept.	(contractor)	Sand and gravel
Morgan Sand & Gravel	Brighton	" " "
Natural Aggregates Corp.	SE SE 23 2N 6E	" " "

LUCE

76th - \$112,000: Sand and Gravel

Fox Valley Constr. Co.	Newberry	Sand and gravel
Luce Co. Road Comm.	SE NE 14 45N 10W	" " "
Mich. State Hwy. Dept.	(contractor)	" " "

MACKINAC

16th, (W), Stone, Sand and Gravel.

Inland Lime & Stone Co.	4-9 42N 12W	Limestone, crushed
	31, 32 43N 12W	" " "
Mackinac Co. Road Comm.	NE NE 12 42N 2W	Sand and gravel
	NW NW 4 40N 4W SW SE 5 43N 11W	
	SW NW 33 43N 11W	" " "
	SE NE 24 42N 1W	" " "
Mike Mangene, Inc.		
Mich. Limestone Operation,	10 42N 1E	Limestone, crushed
U.S. Steel, Cedarville Quarry	(contractor)	Sand and gravel
Mich. State Hwy. Dept.	NW 8 43N 5W	Dolomite
Roer Salvage Co.	SW SW 19 41N 3W	
I. L. Whitehead Co.	SW SE 25 42N 5W	
	NE SE 32 44N 7W	

MACOMB

26th - \$3,532,473: Sand and Gravel (6th, 4%), Natural Gas (2nd, 26%), Petroleum.

Advance Bldg. Materials Co.	NE NW 8 4N 12E	Sand and gravel
American Aggregates Corp.	SW NW 4 4N 12E (HMS)	" " "
Armada Sand and Gravel	SW SW 23 5N 13E	" " "
Great Lakes Gravel Co.	NW NW 31 3N 12E	" " "
Macomb Co. Road Comm.	Various	" " "
Macomb Sand & Gravel	SW SW 30 3N 12E	" " "
Marsack Sand & Gravel	NW NW 3 1N 13E	" " "
Mich. State Hwy. Dept.	(contractor)	" " "
Molesworth Contract	(Paton, Carter & Fritch pits)	" " "
Morgan Sand & Gravel	30 3N 12E	" " "
Natural Aggregates Corp.	NW NE 8 4N 12E	" " "
Ray Industries, Inc.	Oxford	" " "
Telischak Sand & Gravel, Inc.	Armada	" " "
Whitehall Farms	NE NW 21 4N 14E	" " "

MANISTEE

10th - \$20,794,765: Salt, Mg-Compounds (2nd), Bromine (2nd), Sand and Gravel, Ca-CaMg-Chloride.

Gronlund Gravel Co.	SW NE 7 23N 14W	Sand and gravel
	SE 7 23N 14W	" " "
Manistee Co. Road Comm.	SW NW 35 24N 13W NE 14 21N 13W	" " "
	SE 6 23N 14W	

MANISTEE (con't.)

Manistee Salt Div., Hardy Salt Co. Michigan Chemical Corp. Morton Chemical Co.	Manistee NW 7 21N 16W 12 21N 17W	Salt, evaporated Bromine Bromine, Magnesium comp., Calcium Chloride
Morton Salt Co. Sand Products Corp. Standard Lime & Refractories Co.	Manistee N½ 11 21N 17W SE 18 21N 16W	Salt Sand Magnesium compounds

MARQUETTE

1st - \$116,108,931: Iron Ore (1st, 77%), Sand and Gravel, Iron oxide pigments.

Champion, Inc. Cleveland-Cliffs Iron Co.: Empire open pit mine Humboldt open pit mine Mather mine Republic open pit mine Ken Hodgins & Sons City of Ishpeming Jones & Laughlin Steel Corp.: Tracy Mine A. Lindberg & Sons, Inc.	NW NE 26 48N 30W 19 47N 26W 10, 15 47N 29W 1 47N 27W 7 46N 29W Marquette Ishpeming 7, 8 48N 26W SE SW 32 48N 26W SE SW 32 48N 26W NW NW 17 47N 25W NE NW 5 47N 26W SE SE 36 48N 28W SE SE 8 47N 24W NE SW 9 48N 25W NE SW 10 48N 25W NE NW 1 45N 23W SE SW 36 46N 23W N½ NW 17 47N 25W	Sand and gravel Iron Ore " " " " " " Sand and gravel " " " Iron Ore Sand and gravel Crushed basalt & dolomite Sand and gravel " " " " " " " " "
City of Marquette Marquette Co. Road Comm. City of Negaunee		" " " " " " " " "

MASON

6th, (W), Magnesium Compounds (1st), Ca & CaMg Chlorides (1st), Lime (2nd), Bromine (4th), Sand and Gravel (10th), Petroleum.

The Dow Chemical Co.	NW SW 23 18N 18W	Bromine, calcium-chloride, Magnesium Compounds, Lime
Harbison-Walker Refractories Mason Co. Road Comm.	NE SE 23 18N 18W NW NW 27 20N 17W SE SE 18 19N 15W NE NW 10 18N 17W SW SW 11 18N 15W SW NW 24 17N 18W SE SW 34 17N 15W	Magnesium compounds Sand and gravel
Mich. State Hwy. Dept. Sargent Sand Co. Towns Trucking Co.	(contractor) SW 33 19N 18W SW NW 20 17N 17W Brown, Cooper, Kirshner, Cutter & Vorac pits	" " " Sand, industrial Sand and gravel

MECOSTA

43rd - \$1,049,039: Petroleum, Sand and Gravel, Natural Gas, Peat.

Cousineau Gravel, Inc. Gummer's Peat Co.	NW NE 27 16N 10E NW NE 35 15N 8W N½ SE 28 13N 8W	Corrie pit Peat
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MECOSTA (con't.)

Mecosta Co. Road Comm.	NE SW 7 15N 7W NE NE 32 15N 9W NW NE 35 15N 8W SW SW 24 15N 10W SE NW 25 15N 9W W½ SW 4 15N 9W	Sand and gravel
Paris Gravel Co.	NW SW 22 16N 10W NE 14 15N 10W NW SE 22 16N 10W NW SE 27 16N 10W SE 27 16N 10W	" " "

MENOMINEE

49th - \$705,471: Sand and Gravel, Lime (3rd).

B. & K. Sand and Gravel Limestone Products Div., The C. Reiss Coal Co. Menominee Co. Road Comm.	Wallace Menominee SE NE 33 35N 26W NE NE 9 39N 25W SE SE 4 39N 25W	Sand and gravel Lime Sand and gravel " " "
Wurth Concrete & Aggregates,	Menominee	" " "

MIDLAND

4th, (W): Bromine (st), Salt (47th), Mg Compounds (3rd), Ca & CaMg Chlorides (2nd), Iodine (1st), Petroleum, Sand and Gravel, Potash.

The Dow Chemical Co.	Midland	Bromine, magnesium compounds, calcium chloride, salt, iodine, potash
Fisher Sand & Gravel Co.	NE NW 19 14N 2E (depleted)	Sand and gravel (See Isabella Co.)
Kaiser Aluminum & Chemical Co. Midland Co. Road Comm.	Midland	Magnesium compounds Sand and gravel

MISSAUKEE

37, (W): Petroleum (7th, 3%), Natural Gas (8th), Sand and Gravel.

Missaukee Co. Road Comm.	(contractor)	Sand and gravel
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MONROE

9th, (W): Cement (2nd), Stone, Clay (3rd), Petroleum, Peat.

Appleman Peat Co.	E½ SW 17 7S 7E	Peat (Humus, reed-sedge)
Dundee Cement Co.	NE NE 1 6S 6E NE 1 6S 6E NW 6 6S 7E	Cement Limestone & clay " " "
France Stone Co. Michigan Stone Co.: Maybee Quarry Ottawa Lake Quarry F. W. Ritter & Sons, Co.	SE 7 7S 9E 29 5S 8E SW 25 8S 6E SE 16 5S 10E	Dolomite, crushed " " " " Clay, pottery

MONTCALM

54th - \$603,197: Petroleum, Sand and Gravel, Natural Gas.

Dyer Co.	NE NW 35 9N 8W	29 12N 7W	
	NW 32 12N 7W SE SE 8 12N 5W		
	NW SW 4 11N 10W S½ NE 17 11N 6W		
	NW 1 10N 6W		
	Carrick & pits		
Montcalm Co. Road Comm.	NE SE 13 10N 6W NE NE 24 10N 6W		Sand and gravel
Wheeler Transit-Mix Concrete Co.	NE NW 10 11N 8W SE SE 8 12N 5W		" " "
	E½ 34 9N 8W		

MONTMORENCY

79th - \$53,000: Sand and Gravel.

Mich. State Hwy. Dept.	(contractor)		Sand and gravel
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MUSKEGON

33rd - \$2,347,999: Salt, Sand and Gravel, Petroleum.

Hooker Chemical Co.	30 12N 17W		Salt-Brine for chemical rufg.
Paul C. Miller	SE SE 32 10N 13W		Sand and gravel
McCormick Sand Corp.	SW 16 11N 16W		Sand, industrial
Nugent Sand Co.	NE 3 9N 17W		" "
Whitehall Gravel Co.	W½ NE 27 12N 17W		Sand and gravel

NEWAYGO

60th - \$423,062: Sand and Gravel, Petroleum.

J. V. Burkett			Sand and gravel
Cousineau Gravel, Inc.	NW SW 16 11N 11W		" " "
	SE 14 12N 12W		
	SE 4 13N 12W		
	SW SE 26 12N 13W		
Howard Eichenberg Contr.			" " "
K - V Gravel Co.	NE NW 21 12N 12W		" " "
Paul C. Miller	NE NE 34 12N 13W		" " "
Newaygo Co. Road Comm.			" " "

OAKLAND

15th - \$10,397,888: Sand and Gravel (1st, 19%), Petroleum, Peat.

American Aggregates Corp.	NE NW 22 5N 10E (HMS)		Sand and gravel
American Stone Products	SE 22 4N 9E		" " "
Richard Beagle Sand & Gravel	Gladstone pit		" " "
Dan's Peat Farm	SE SW 12 1N 8E		Peat (moss)
Holloway Sand & Gravel Co., Inc.	Hass, Millington & Mt. Holly Pits		Sand and gravel
Holly Sand & Gravel D. O.	NE SE 32 5N 8E (HMS)		" " "
Jennings, Inc.	S½ 19 5N 8E		" " "
	NE 30 5N 8E		

OAKLAND (con't.)

John R. Sand and Gravel Co.	SE 4 4N 10E		Sand and gravel
Kemler Brothers	SW SW 36 5N 11E		" " "
Koenig Coal & Supply Co.	NW 1 3N 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)		" " "
New Hudson Sand & Gravel	NW NE 33 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.	Holly		" " "
Spartan Aggregates, Inc.	Kurtz pit		" " "
Underwood Sand & Gravel	SW 2 3N 10E		" " "
	SE 11 3N 89		
Charles Van Every	Novi		
Weber's Sand & Gravel			

OCEANA

64th - \$317,899: Sand and Gravel, Petroleum.

Beckman Brothers	NE SW 24 14N 17W		Sand and gravel
Paul C. Miller	SE SE 4 13N 15W		" " "
Oceana Co. Road Comm.	SE SW 3 16N 15W		" " "
Syers Gravel Co.	SE SW 3 16N 15W	NE 11 14N 18W	" " "
	NE SE 4 13N 15W	NW 4 13N 15W	
	SW 3 13N 15W	NE NE 4 13N 15W	
Towns Trucking Co.	Mead pit		" " "

OGEMAW

35th - \$1,896,316: Sand and Gravel, Petroleum, Natural Gas.

Gil Brown Constructors, Inc.	NE SE 6 22N 2E		Sand and gravel
Ehinger Brothers Excavating Co.	West Branch		" " "
Mich. State Hwy. Dept.	(contractor)		" " "
Ogemaw Co. Road Comm.	NW SW 5 22N 2E		" " "
	NW SE 33 22N 3E		
George Peters Sand & Gravel	SW SW 26 24N 3E		" " "
West Branch Concrete Products	NE SE 6 21N 2E		" " "

ONTONAGON

2nd - \$58,889,024: Copper (1st), Silver, Sand and Gravel

Caspian Constr. Co.	SW NE 17 49N 42W		Sand and gravel
Fox Valley Constr. Co.	SW NE 7 49N 42W		" " "
Ontonagon Co. Road Comm.			" " "
White Pine Copper Co.:			
White Pine Mine	4, 5, 9 50N 42W		Copper & silver

OSCEOLA

31st - \$2,454,767: Petroleum (6th, 4%), Natural Gas Liquids (4th, 12%), Sand and Gravel, Natural Gas.

J. P. Burroughs & Son, Inc.:			
Hersey Sand & Gravel Div.	NW SW 20 17N 9W (HMS)		Sand and gravel

OSCEOLA (con't.)

Cousineau Gravel, Inc. Osceola pit, Evert Sand and gravel
NW NW 11 17N 9W
Post pit

OSCODA

80th - \$50,626: Sand and Gravel, Petroleum.
Oscoda Co. Road Comm. SE SW 15 27N 1E Sand and gravel

OTSEGO

82nd - \$14,196: Natural Gas, Sand and Gravel.
Hugh Mason & Sons NE SW 11 30N 3W NE SE 22 33N 2W Sand and gravel
SE NE 2 32N 2W
Otsego Co. Road Comm. SE SW 11 30N 3W SW SE 26 31N 2W " " "

OTTAWA

30th - \$2,571,064: Sand and Gravel (9th, 4%), Petroleum, Natural Gas, Marl.
Construction Aggregates Corp. SW NE 17 8N 16W (HMS) Sand and gravel
7 7N 14W
DeWent Gravel Co. SW SW 22 6N 13W " " "
Grand Valley Gravel Co. NE NE 32 7N 13W " " "
Huizenga Gravel Co. 24 5N 15W " " "
Henry Koster 23 6N 13W Marl
Ralph Meyers Hudsonville "
Paul C. Miller Co. NW NW 4 9N 13W Sand and gravel
Muskegon Gravel Co. " " "
Ottawa Co. Road Comm. NE SW 24 5N 15W " " "
6N 13W NE 36 5N 13W
Pickett & Schreur, Inc. NW NE 22 6N 13W " " "
Rieth-Riley Constr. Co. SE NW 4 6N 13W " " "
Riverview Gravel Co. E 1/2 26N 13W " " "
Standard Sand Co. NW 4 7N 16W Sand, industrial
West Shore Constr. Co. SW SW 2 6N 13W Sand and gravel

PRESQUE ISLE

11th, (W), Stone, Sand and Gravel.
Dean & Son Onaway Sand and gravel
Michigan Limestone Operation, U.S. Steel 23 35N 5E Limestone, crushed
Onaway Stone Co. 5 34N 2E Limestone, dimensional
Presque Isle Co. Road Comm. NE NE 19 33N 5E SW SE 18 35N 2E Sand and gravel
Presque Isle Corp. 2 33N 8E Limestone, crushed
Straits Aggregate & Equip. Corp. NE NW 19 34N 4E Sand and gravel

ROSCOMMON

50th - \$694,261: Petroleum, Sand and Gravel, Natural Gas (7th), Natural Gas Liquids (7th).
Halliday Sand & Gravel Inc. NW SW 3 23N 3W Sand and gravel
SE SE 30 24N 3W

ROSCOMMON (con't.)

Roscommon County Road Comm. NW NE 25 24N 4W NE NW 32 23N 4W Sand and gravel
SW NW 4 22N 4W NW NW 14 22N 4W
Jess Stanley Gravel Co. NW NE 25 24N 4W NW NW 10 22N 4W " " "
NW NE 28 21N 1W
Steel Brothers NE NE 4 24N 3W " " "

SAGINAW

52nd - \$635,744: Sand and Gravel, Clay (for cement mfg.), Lime, Petroleum.
Aetna Portland Cement Co. SW 35 12N 3E Clay (for cement mfg.)
Michigan State Hwy. Dept. (contractor)
Michigan Sugar Co. Carrollton Lime (for sugar mfg.)
Saginaw Co. Road Comm. Sand and gravel
Sargent Sand Co. Hemlock

ST. CLAIR

8th - \$22,490,684: Salt (3rd), Natural Gas (1st, 27%), Cement (7th), Natural Gas Liquids (1st, 31%), Petroleum (4th, 5%), Clay, Sand and Gravel, Peat.
Click Bros. Gravel NE NW 27 7N 15E Sand
Diamond Crystal Salt Co. 31 5N 17E Salt, evaporated
Molesworth Contracting SE NW 29 8N 16E Sand and gravel
NE SE 8 7N 15E NW NW 5 8N 16E
Morton Salt Co. SE 29 6N 17E Salt, evaporated
Peerless Cement Co. Port Huron Portland cement mfg.
32 6N 16E Clay (for cement mfg.)
City of Port Huron Port Huron Sand and gravel
St. Clair Co. Road Comm. 8 8N 14E
8 7N 15E 29 8N 16E " " "
Sheldon Contr. Port Huron " " "

ST. JOSEPH

62nd - \$367,875: Sand and Gravel, Marl, Peat.
Aggregate Processors, Inc. NE 7 8S 11W Sand and gravel
Cole Brothers (for county) " " "
Kerr's Peat Moss Three Rivers Peat (reed-sedge)
Paas Brothers Three Rivers Sand and gravel
Pickett & Schreur, Inc. Flowerfield pit Peat
Three Rivers Sand and gravel
Sturgis

SANILAC

67th - \$259,000: Sand and Gravel, Lime, Peat.
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
Michigan Peat, Inc. NE NE 21 14N 14E "
Michigan Sugar Co. Crosswell Lime (for sugar mfg.)
Mid-Michigan Materials, Inc. SE SE 31 9N 16E Sand and gravel
Molesworth Contracting Bad Axe " " "

SANILAC (con't.)

Sanilac Co. Road Comm.	SW SW 31 12N 13E	Sand and gravel
	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

45th - \$1,029,357: Stone, Sand and Gravel.

Fox Valley Constr. Co.	Gulliver	Sand and gravel
Schoolcraft Co. Road Comm	SE SW 7 41N 17W	" " "

SHIAWASSEE

53rd - \$614,934: Sand and Gravel, Shale, Petroleum, Peat.

Aetna Portland Cement Co.	NW NW 1 11N 3E	Clay
Al-Par Peat Co.	Ovid	Peat (reed-sedge)
Fred Fitzgerald Gravel Co.	NW SW 22 8N 2E	Sand and gravel
Fuoss Gravel Co.	SE NW 9 6N 3E	" " "
Gillette Sand and Gravel	Shaftsbury	" " "
Grand River Gravel Co.	SW SW 30 6N 3E	" " "
Mich. Vitriified Tile Co.	SE 22 7N 3E	Shale (for tile mfg.)
Polhamus Gravel Co.	SW SE 16 7N 1E	Sand and gravel
Shenk Gravel Co.	NE NE 2 6N 4E	" " "
Shiawassee Co. Road Comm.		" " "
Spartan Aggregates Inc.	Fill pit	" " "
Ronald Weaver Gravel Co.	SE SE 20 7N 2E	" " "

TUSCOLA

29th - \$2,685,363: Sand and gravel (7th), Petroleum, Lime, Peat.

Andersen Sand & Gravel	NW SW 19 11N 9E NE NE 20 11N 9E	Sand and gravel
Bernthal Sand & Gravel	SW SE 31 12N 9E	" " "
Comstock Constr. Co.	NW NW 10 11N 9E	" " "
Great Lakes Foundary Sand Co.	SW SW 28 12N 8E	Sand, industrial
Holloway Sand & Gravel		Sand and gravel
C. R. Hunt Constr. Co.	Cass City	" " "
Mich. State Hwy Dept.		" " "
Michigan Sugar Co.	Caro	Lime (for sugar mfg.)
Peterhans Bros. S. & G.	SW NE 35 13N 9E	Sand and gravel
Powell Sand & Gravel	23 13N 7E	" " "
Rushland Peat Co.	NE 30 12N 8E	Peat (moss)
Saginaw Co. Road Comm.	NW NE 24 14N 11E	Sand and gravel
Sargent Sand Co.	5 10N 9E SE 13 11N 8E	Industrial sand
	NW 1 11N 8E	
Tuckey Block Co.	33 14N 10E SE SW 4 13N 11E	Sand and gravel
	33 14N 10E	
Tuscola Co. Road Comm.	NW NW 28	
	NW SE 22 11N 7E SW SW 19	
	NE NW 29 NE NE 2 11N 9E	
	E $\frac{1}{2}$ SW $\frac{1}{4}$ 5 11N 10E SW NE 3	
	SE SE 34 SW NW 13 12N 8E	
	N $\frac{1}{2}$ NE 7 N $\frac{1}{2}$ SW 18 12N 10E	
	SE SE 10 13N 9E NW NW 16 13N 10E	

TUSCOLA (con't.)

Tuscola Co. Road Comm. (con't.)	SW 4	NE NW 12
	SE SW 4 13N 11E W $\frac{1}{2}$ SW 22	
	33 14N 10E NE SW 34	
	NE NW 24 14N 11E SE SW 27 10N 8E	

VAN BUREN

63rd - \$349,474: Sand and Gravel.

J. V. Burkett	Paw Paw	
Klett Constr. Co.	SE NW 24 3S 14W	Sand and gravel
Standard Sand Co.	NE 5 2S 17W	Sand, industrial
Van Buren Co. Road Comm		Sand and gravel
John G. Yerington	NW SE 31 4S 16W SE SE 12 3S 15W	" " "
	Beardsley Pit	

WASHTENAW

25th - \$3,649,227: Sand and Gravel, Natural Gas Liquids (2nd), Petroleum, Natural Gas.

William Brink		
Central Michigan Sand & Gravel Co.		
O. E. Gooding & Co.	NE SE 19 3S 6E NE NE 15 3S 6E	Sand and gravel
	SW NE 19 2S 7E	
Killins Gravel Co.	SE SE 25 2S 3E	" " "
	SW SW 25 2S 5E (HMS)	
Kruse Gravel Pit	SW SW 32 2S 7E	" " "
Short Hills Gravel Co.		
Thompson-McCully Sand & Gravel	NE SE 26 3S 7E	" " "
Thumm's Sand & Gravel	NW NW 25 3S 7E	" " "
Washtenaw Co. Road Comm.	SW NE 14 1S 7E NW 23 3S 4E	" " "
	SE NE 21 2S 5E NW SW 3 2S 5E	
	NE SE 2 4S 3E NE NW 19 2S 7E	
	SE NW 22 1S 3E	
Washtenaw Sand & Gravel	Ann Arbor	" " "
Whittaker & Gooding	SW NW 10 2S 5E (HMS)	" " "

WAYNE

3rd - \$54,870,027: Cement (3rd), Lime (1st), Salt (1st), Sand and Gravel (2nd), Ca & Ca-Mg Chloride, Clay, Sulfur, Stone, Petroleum, Natural Gas.

A.B.C. Sand Co.	Nankin	Sand, fill
Allied Chemical Corp.	Trenton	Lime
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
S. G. Hayes Land Devel. Co.	Northville	" " "
Holloway Sand & Gravel Co.	NW NW 18 1S 8E	" " "
International Salt Co., Inc.	SW 32 2S 11E	Rock Salt
Lightweight Aggregate Corp.	NE 27 1S 9E	Clay, light weight aggregate
Manning & Locklin Gravel Co.	NW SW 2 1S 8E	Sand and gravel
Marathon Oil Co.	Detroit	Sulfur
Mich. Foundation Quarry Co.	NE NW 7 4S 11E	Limestone, crushed
Michigan Silica Co.	SW NE 15 5S 10E	Silica Sand
Moore Bros. Sand & Gravel	E $\frac{1}{2}$ SE 9 3S 9E	Sand and gravel

WAYNE (con't.)

Al Morgan Sand Co.	Romulus	Sand
Ottawa Silica Co.	Rockwood	
Peerless Cement Corp.	Detroit (2 plants)	Cement
Pennsalt Chemicals Corp.	Wyandotte	Salt (brine for chlorine mfg.)
Thomson Sand & Gravel	NW NE 8 1S 8E	Sand and gravel
Wayne Sand & Gravel Co.	NW SE 12 3S 8E	" " "
Wyandotte Chemical Corp.	Wyandotte	Salt, cement, lime
Marblehead Lime Co.	River Rouge	Lime (limekiln only)

WEXFORD

73rd - \$136,112: Sand and Gravel, Natural Gas.

Leo Dunbar	SW NE 15 21N 9W	Sand and gravel
Mich. State Hwy. Dept.	(contractor)	" " "
Wexford Co. Road Comm.	(contractor)	" " "
Wexford Gravel Co.	NW NE 10 21N 9W	" " "

UNDISTRIBUTED

\$3,032,000: Peat*, Sand and Gravel.

U.S. Department of Agriculture	Various Counties	Sand and gravel
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* Peat producers are listed in county breakdown. Individual or county production and value data not available.

SELECTED MINERALS AND GEOLOGY

GEOLOGIC UNIT MINED:NAMES OF OPERATIONS:Iron

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

Copper

Upper Keweenaw:		
Nonesuch Shale.....	White Pine Mine	
Middle Keweenaw:		
Houghton Conglomerate.....	Allouz #3	
Calumet Conglomerate.....	Centennial #3 & #6	
Osceola Amygdaloid.....	Osceola #13	
Kingston Conglomerate.....	Kingston Mine	

Gypsum

Upper Mississippian:		
Michigan Formation.....	Bestwall Gypsum Co., 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 Co. @ St. Louis & Manistee, & Wilkinson Chemical Co.	

Salt

Middle Devonian:		
Detroit River.....	Dow Chemical Co. @ Midland	
Salina	Diamond Crystal Salt Co., Hooker Chemical Corp., International Salt Co., Hardy Salt Co., Morton Salt Co., Pennsalt Chemical Corp., & Wyandotte Chemical Corp.	

Limestone

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

SELECTED MINERALS AND GEOLOGY (cont'd)

<u>GEOLOGIC UNIT MINED:</u>	<u>NAMES OF OPERATIONS:</u>
<u>Limestone (cont'd.)</u>	
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 Lms.....	Dundee Cement Co., Michigan Limestone Operation @ Calcite, & Presque Isle Corp. (Rogers City Lms.)
Detroit River.....	Michigan Foundation Quarry Co., Inc.
Middle Silurian:	
Hendricks Dol. (Fiborn Lms.).....	Inland Lime & Stone Co.
Middle Ordovician:	
Trenton.....	Bichler Gravel Co.
<u>Dolomite</u>	
Late Silurian:	
Bass Islands.....	France Stone Co. & Mich. Stone Co.
Middle Silurian	
Engadine.....	Bethlehem Mines Corp., Roen Salvage Co., Michigan Limestone Operation @ Cedarville, and Inland Lime & Stone Co.
Middle Ordovician:	
Black River.....	Limestone Mountain Co.

Selected Geological Survey Publications

Annual Directory	
No. 3, Michigan Mineral Producers 1968.	free
Annual Statistical Summary (Minerals)*	
No. 5, Mineral Industry of Michigan, 1965	\$.15
No. 7, Mineral Industry of Michigan, 196615
No. 9, Mineral Industry of Michigan, 196715
No. 11, Mineral Industry of Michigan, 1968.25
Annual Statistical Summary (Oil & Gas)*	
No. 8, Michigan's Oil and Gas Fields, 1967.	\$1.00
No. 10, Michigan's Oil and Gas Fields, 1968	1.00
Geologic Maps	
Publication 39 (Part 1), Centennial Geologic Map of the Southern Peninsula of Michigan, 1936, color, 1:500,000, 54 x 34 inches	\$1.00
(Part 2, the Upper Peninsula portion of this map is out-of-print)	
Publication 49 (Part 1), Map of the Surface Formations of the Southern Peninsula of Michigan, 1955, color, 1:500,000, 41 x 42½ inches.	1.00
Publication 49 (Part 2), Map of the Surface Formations of the Northern Peninsula of Michigan, 1957, color, 1:500,000, 51 x 33½ inches.	1.00
Small Scale Map 1	
Morainic Systems of Michigan, 1967, black and white, 8½ x 11 inches	free
Small Scale Map 2	
Bedrock of Michigan, 1968, color, 1:500,000, 11 x 15 inches	free
Geologic Chart	
Chart 1, Stratigraphic Succession in Michigan (Cambrian to Pleistocene)	
Small Size, 11 x 17 inches.	free
Large Size, 24 x 36 inches.25
Popular Items	
Bulletin 1, Our Rock Riches; a selected collection of reprinted articles on Michigan's mineral resources by various authors, 1965, 109 pages	\$.50
Bulletin 2, Rocks and Minerals of Michigan, 5th edition, (1965), 103 pages50
Bulletin 4, The Glacial Lakes Around Michigan, (1967), 23 pages50
Bulletin 5, Meteorites of Michigan, (1968), 42 pages.40
Circular 5, Sources of Geologic Information in Michigan, (1967) 24 pages.	free
Pamphlet 3, Guide to Michigan Fossils, (1962), 16 pages	free
Map Price List	
7011, Oil and gas maps, base maps, and miscellaneous maps (blue line reproductions) revised 11-69, mimeographed.	free

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*Superior Sand and Gravel Co.
Portable plant operating in
glacial outwash near Hancock
in Houghton County.*