

**Table 1: 2004 Water Withdrawals for Self-Supplied Industrial Facilities in Michigan, by County\***

County	Self-Supplied Industries		Water Withdrawn (MGD)			
	Number of Facilities	Number of Employees	Great Lakes	Surface Water	Ground Water	Total
Alger	2	688	5.67	0.00	0.35	6.03
Allegan	13	3,991	0.00	0.85	3.14	3.99
Alpena	3	1,080	2.59	4.04	0.00	6.64
Antrim	2	260	0.00	0.00	0.09	0.09
Arenac	1	52	0.00	0.00	0.19	0.19
Baraga	1	190	0.60	0.00	0.00	0.60
Barry	5	956	0.00	0.23	0.08	0.31
Bay	4	1,841	0.00	0.86	0.00	0.86
Benzie	4	305	0.00	0.01	0.33	0.33
Berrien	14	2,143	0.00	0.00	2.09	2.10
Branch	5	906	0.00	0.00	0.98	0.98
Calhoun	10	4,480	0.00	3.41	5.67	9.08
Cass	4	847	0.00	0.00	1.52	1.52
Charlevoix	5	1,095	5.04	0.00	10.93	15.96
Cheboygan	1	70	0.00	0.25	0.07	0.32
Chippewa	1	30	0.96	0.00	0.00	0.96
Clinton	2	97	0.00	0.00	0.82	0.82
Crawford	4	302	0.00	0.07	0.15	0.22
Delta	5	1,380	37.67	0.40	0.16	38.23
Dickinson	1	20	0.00	19.07	0.43	19.50
Eaton	2	35	0.00	0.00	0.01	0.01
Emmet	2	370	0.00	0.00	0.03	0.03
Genesee	8	8,682	0.00	0.00	0.12	0.12
Gladwin	1	7	0.00	0.00	0.00	0.00
Gogebic	2	150	0.00	0.00	0.08	0.08
Grand Traverse	5	1,355	0.00	0.00	0.33	0.33
Gratiot	2	700	0.00	0.00	0.44	0.44
Hillsdale	3	623	0.00	0.00	0.77	0.77
Huron	2	210	0.00	0.00	0.00	0.00
Ingham	4	9,182	0.00	0.00	0.34	0.34
Ionia	3	938	0.00	0.13	0.05	0.18

County	Self-Supplied Industries		Water Withdrawn (MGD)			
	Number of Facilities	Number of Employees	Great Lakes	Surface Water	Ground Water	Total
Iosco	2	185	0.00	0.09	0.00	0.09
Isabella	1	120	0.00	0.00	0.00	0.00
Jackson	14	991	0.00	0.02	0.45	0.46
Kalamazoo	10	10,010	0.00	5.25	26.79	32.04
Kalkaska	1	50	0.00	0.00	0.00	0.00
Kent	23	8,445	0.00	0.98	0.78	1.77
Lapeer	2	255	0.00	0.00	0.01	0.01
Leelanau	6	191	0.00	0.00	0.40	0.40
Lenawee	7	1,105	0.00	0.02	0.25	0.27
Livingston	11	1,945	0.00	0.00	0.99	0.99
Luce	2	111	0.00	0.00	0.04	0.04
Mackinac	1	125	7.01	0.00	0.02	7.03
Macomb	3	254	0.00	0.00	0.03	0.03
Manistee	4	908	13.38	18.78	0.65	32.80
Marquette	2	1,820	0.00	18.92	0.16	19.08
Mason	6	1,419	23.35	0.00	0.39	23.74
Mecosta	2	170	0.00	0.00	0.53	0.53
Menominee	2	625	0.00	2.69	0.03	2.72
Midland	2	4,175	0.00	6.00	0.14	6.14
Monroe	6	640	0.00	1.36	8.63	9.99
Montcalm	1	500	0.00	0.00	0.13	0.13
Muskegon	19	3,837	22.64	4.19	3.55	30.38
Newaygo	1	6	0.00	0.00	0.00	0.00
Oakland	25	6,463	0.00	0.05	0.96	1.01
Oceana	4	785	0.00	0.00	1.05	1.05
Ontonagon	2	1,430	6.46	0.00	0.00	6.46
Osceola	5	591	0.00	0.00	0.35	0.35
Otsego	4	657	0.00	0.00	0.41	0.41
Ottawa	13	2,931	0.02	7.32	0.71	8.06
Presque Isle	2	270	8.98	0.00	0.01	8.99
Roscommon	1	190	0.00	0.00	0.00	0.00
Saginaw	3	1,526	0.00	1.80	0.00	1.80
Saint Clair	5	2,713	12.62	0.00	0.00	12.63
Saint Joseph	14	2,731	0.00	0.28	5.56	5.84

County	Self-Supplied Industries		Water Withdrawn (MGD)			
	Number of Facilities	Number of Employees	Great Lakes	Surface Water	Ground Water	Total
Sanilac	4	1,045	0.00	0.08	0.12	0.19
Schoolcraft	2	220	5.16	5.70	0.00	10.86
Shiawassee	1	60	0.00	0.00	0.12	0.12
Tuscola	3	89	0.00	0.00	0.00	0.00
Van Buren	9	1,116	0.00	0.00	1.02	1.02
Washtenaw	14	8,936	0.00	0.61	1.82	2.43
Wayne	16	16,134	274.45	9.60	0.12	284.17
Wexford	4	1,243	0.00	0.00	3.69	3.69
Total	380	130,002	426.61	113.04	89.12	628.76

\* This report is provided by the Michigan Department of Environmental Quality and was generated using data collected for the water use reporting program.

# Index Map of Michigan Counties



**Table 2: 2004 Water Withdrawals for Self-Supplied Industrial Facilities in Michigan, by Hydrologic Basin\***

Hydrologic Basin Code	Self-Supplied Industries		Water Withdrawn (MGD)			
	Number of Facilities	Number of Employees	Great Lakes	Surface Water	Ground Water	Total
04010302	1	85	0.00	0.00	0.08	0.08
04020101	2	1,215	0.00	0.00	0.00	0.00
04020102	1	280	6.46	0.00	0.00	6.46
04020105	1	190	0.60	0.00	0.00	0.60
04020201	2	688	5.67	0.00	0.35	6.03
04020202	2	111	0.00	0.00	0.04	0.04
04030108	2	395	0.00	21.77	0.43	22.19
04030109	1	250	0.00	0.00	0.03	0.03
04030110	2	1,820	0.00	18.92	0.16	19.08
04030111	4	1,350	37.67	0.40	0.11	38.18
04040001	1	43	0.00	0.00	0.00	0.00
04050001	49	8,382	0.00	0.29	11.20	11.48
04050002	8	3,645	0.01	6.66	0.17	6.84
04050003	28	16,109	0.00	9.32	35.55	44.87
04050004	20	10,178	0.00	0.02	0.79	0.81
04050005	1	92	0.00	0.00	0.82	0.82
04050006	31	5,985	0.01	1.72	1.78	3.52
04050007	11	6,314	0.00	0.47	0.17	0.64
04060101	16	2,568	23.35	0.00	1.86	25.21
04060102	21	5,149	22.64	4.19	4.64	31.47
04060103	5	933	13.38	18.78	3.25	35.41
04060104	10	835	0.00	0.01	0.76	0.76
04060105	15	2,791	5.04	0.00	11.35	16.38
04060106	1	155	0.00	5.70	0.00	5.70
04060107	1	65	5.16	0.00	0.00	5.16
04070001	2	60	0.96	0.00	0.05	1.01
04070002	1	125	7.01	0.00	0.02	7.03
04070003	3	520	11.58	0.00	0.01	11.58
04070004	3	162	0.00	0.25	0.07	0.32
04070006	2	830	0.00	4.04	0.00	4.04
04070007	7	1,057	0.00	0.07	0.55	0.62
04080101	2	185	0.00	0.09	0.00	0.09

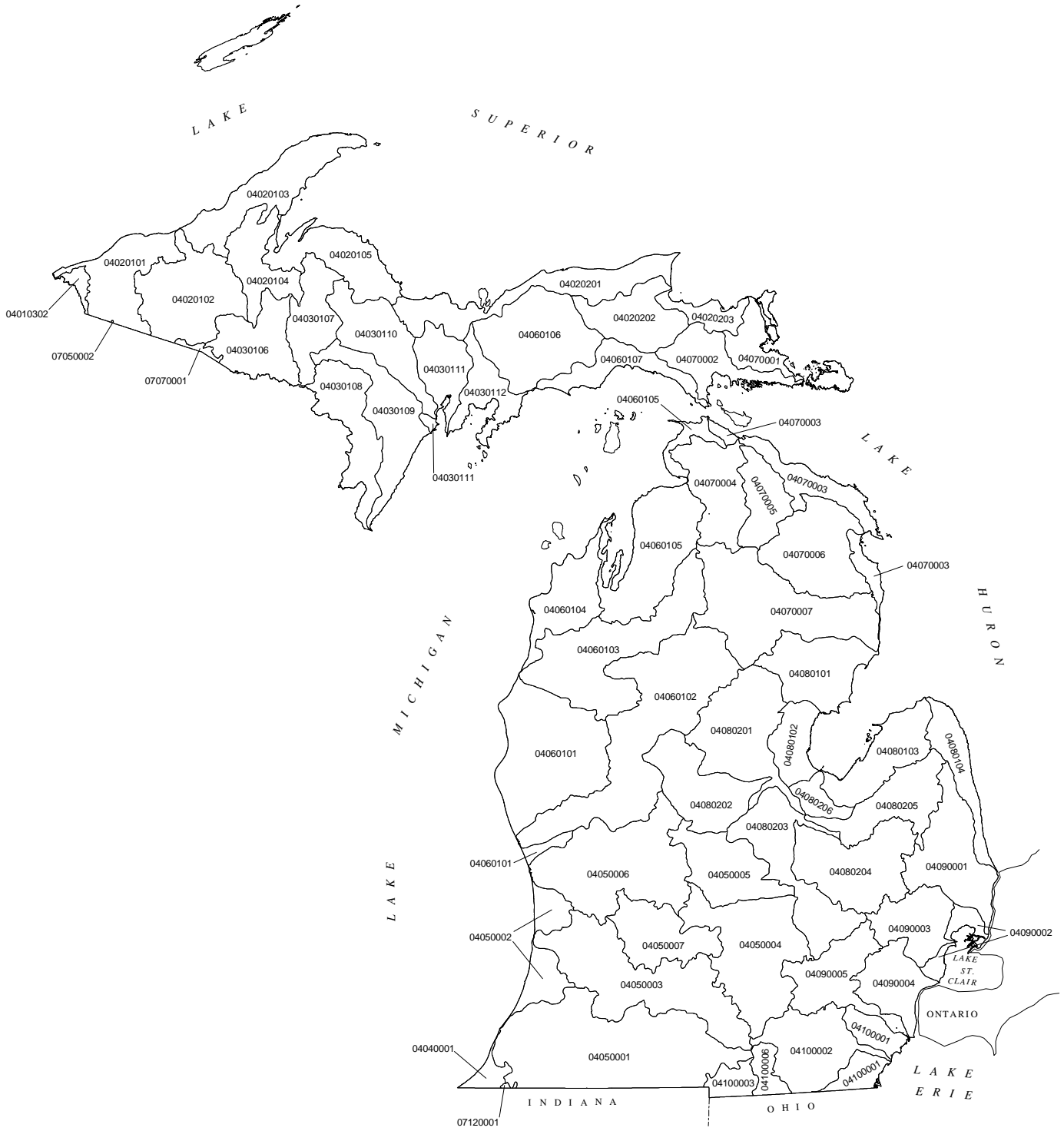
Hydrologic Basin Code	Self-Supplied Industries		Water Withdrawn (MGD)			
	Number of Facilities	Number of Employees	Great Lakes	Surface Water	Ground Water	Total
04080102	1	52	0.00	0.00	0.19	0.19
04080103	2	210	0.00	0.00	0.00	0.00
04080104	1	400	0.00	0.00	0.04	0.04
04080201	3	4,182	0.00	6.00	0.14	6.14
04080202	3	890	0.00	0.00	0.57	0.57
04080203	7	1,475	0.00	0.00	0.21	0.21
04080204	9	8,447	0.00	0.00	0.13	0.13
04080205	4	104	0.00	0.08	0.00	0.08
04080206	7	3,367	0.00	2.65	0.00	2.66
04090001	7	3,343	12.62	0.00	0.08	12.71
04090003	9	682	0.00	0.00	0.66	0.66
04090004	24	16,545	274.45	1.46	0.20	276.11
04090005	32	15,680	0.00	8.80	2.98	11.77
04100001	4	65	0.00	0.00	8.59	8.59
04100002	10	1,701	0.00	1.37	1.07	2.44
04100003	1	292	0.00	0.00	0.00	0.00
Total	380	130,002	426.61	113.04	89.12	628.76

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Hydrologic Basins in Michigan: U.S. Geological Survey

04010302	Bad-Montreal	04050007	Thornapple	04080104	Birch-Willow
04020101	Black-Presque Isle	04060101	Pere Marquette-White	04080201	Tittabawassee
04020102	Ontonagon	04060102	Muskegon	04080202	Pine
04020105	Dead-Kelsey	04060103	Manistee	04080203	Shiawassee
04020201	Betsy-Chocolay	04060104	Betsie-Platte	04080204	Flint
04020202	Tahquamenon	04060105	Boardman-Charlevoix	04080205	Cass
04030108	Menominee	04060106	Manistique	04080206	Saginaw
04030109	Cedar-Ford	04060107	Brevoort-Millecoquin	04090001	St. Clair
04030110	Escanaba	04070001	St. Marys	04090003	Clinton
04030111	Tacoosh-Whitefish	04070002	Carp-Pine	04090004	Detroit
04040001	Little Calumet-Galien	04070003	Lone Lake-Ocqueoc	04090005	Huron
04050001	St. Joseph	04070004	Cheboygan	04100001	Ottawa-Stony
04050002	Black-Macatawa	04070006	Thunder Bay	04100002	Raisin
04050003	Kalamazoo	04070007	Au Sable	04100003	Laird-St. Joseph
04050004	Upper Grand	04080101	Au Gres-Rifle		
04050005	Maple	04080102	Kawkawlin-Pine		
04050006	Lower Grand	04080103	Pigeon-Wiscoggin		

# Index Map of Michigan Hydrologic Basins



**Table 3: 2004 Water Withdrawals for Self-Supplied Industrial Facilities in Michigan, by Standard Industrial Code\***

Standard Industrial Code**	Self-Supplied Industries		Water Withdrawn (MGD)			
	Number of Facilities	Number of Employees	Great Lakes	Surface Water	Ground Water	Total
	2	2	0.00	0.00	0.03	0.03
1000	2	1,820	0.00	18.92	0.16	19.08
1400	31	1,287	26.60	15.18	13.88	55.67
2000	54	10,951	0.01	2.45	13.09	15.55
2400	12	1,899	0.00	4.04	0.80	4.84
2500	5	3,583	0.00	0.00	3.93	3.93
2600	22	8,016	92.42	30.89	4.26	127.57
2700	3	690	0.00	0.00	0.35	0.35
2800	26	21,588	47.25	28.68	28.33	104.26
2900	5	978	0.00	0.00	0.50	0.50
3000	28	5,118	0.00	0.01	1.11	1.12
3100	2	298	0.00	0.35	0.00	0.35
3200	43	1,638	2.86	3.63	11.50	17.99
3300	23	11,819	248.95	2.80	2.51	254.26
3400	36	7,971	1.07	0.00	2.58	3.65
3500	25	8,265	0.00	0.00	1.54	1.54
3600	8	3,725	0.00	0.61	0.98	1.59
3700	24	22,742	0.00	0.14	0.96	1.10
3800	5	2,340	0.00	0.00	1.61	1.61
3900	8	890	0.00	0.00	0.17	0.17
4000	1	30	0.00	0.00	0.05	0.05
4200	1	11	0.00	0.00	0.00	0.00
5000	2	4	0.00	0.00	0.00	0.00
5100	2	5	0.00	0.01	0.02	0.02
7000	2	47	0.00	0.02	0.00	0.02
7300	3	6,570	7.46	5.25	0.45	13.15
8700	5	7,715	0.00	0.05	0.30	0.35
Total	380	130,002	426.61	113.04	89.12	628.76

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\*\*Standard Industrial Code Categories

1000	Metal Mining	3500	Machinery (Except Electrical)
1400	Mining and Quarrying	3600	Electrical and Electronic Machinery and Supplies
2000	Food and Kindred Products	3700	Transportation Equipment
2400	Lumber and Wood Products (Except furniture)	3800	Measuring, Analyzing, and Controlling Instruments
2500	Furniture and Fixtures	3900	Miscellaneous Manufacturing Industries
2600	Paper and Allied Products	4000	Railroad Transportation
2700	Printing, Publishing, and Allied Industries	4200	Motor Freight Transportation
2800	Chemicals and Allied Products	5000	Wholesale Trade - Durable Goods
2900	Petroleum Refining and Related Industries	5100	Wholesale Water Industries
3000	Rubber and Miscellaneous Plastic Products	7000	Hotels and Lodging
3100	Leather and Leather Products	7300	Business Services
3200	Stone, Clay, and Concrete Products	8700	Engineering, Research, and Management Services
3300	Primary Metal Industries		
3400	Fabricated Metal Products (Except Machinery)		