

Table 1: 2003 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County	Self-Supplied Industries		Water Withdrawn (MGD)			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	5.14	0.00	0.36	5.50
Allegan	14	4,291	0.00	0.65	3.67	4.31
Alpena	3	1,080	2.44	6.79	0.00	9.23
Antrim	2	260	0.00	0.00	0.09	0.09
Arenac	1	52	0.00	0.00	0.24	0.24
Baraga	1	190	0.54	0.00	0.00	0.54
Barry	5	956	0.00	0.03	0.09	0.12
Bay	4	1,841	0.00	0.88	0.00	0.88
Benzie	4	305	0.00	0.01	0.28	0.29
Berrien	16	2,155	0.00	0.83	1.35	2.18
Branch	5	906	0.00	0.00	0.42	0.42
Calhoun	10	4,480	0.00	2.73	6.23	8.96
Cass	4	847	0.00	0.00	1.46	1.46
Charlevoix	5	1,095	4.94	0.00	9.38	14.31
Cheboygan	1	70	0.00	0.26	0.09	0.35
Chippewa	1	30	0.81	0.00	0.00	0.81
Clinton	3	99	0.00	0.00	0.82	0.82
Crawford	4	302	0.00	0.07	0.16	0.23
Delta	5	1,380	36.84	0.33	0.11	37.27
Dickinson	1	20	0.00	17.56	0.33	17.89
Eaton	1	35	0.00	0.00	0.00	0.00
Emmet	2	370	0.00	0.00	0.03	0.03
Genesee	8	8,682	0.00	0.00	0.13	0.13
Gladwin	1	7	0.00	0.00	0.00	0.00
Gogebic	2	150	0.00	0.00	0.08	0.08
Grand Traverse	6	1,405	0.00	0.00	0.39	0.39
Gratiot	2	700	0.00	0.00	0.21	0.21
Hillsdale	3	623	0.00	0.00	0.00	0.00
Huron	3	260	0.00	0.00	0.03	0.03
Ingham	4	9,182	0.00	0.00	0.38	0.38
Ionia	3	938	0.00	0.12	0.05	0.17

County	Self-Supplied Industries		Water Withdrawn (MGD)			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	13	1,079	0.00	0.14	0.44	0.58
Kalamazoo	10	10,010	0.00	5.78	31.05	36.82
Kalkaska	1	50	0.00	0.00	0.00	0.00
Kent	24	8,445	0.00	0.91	0.81	1.71
Lapeer	2	255	0.00	0.00	0.02	0.02
Leelanau	6	191	0.00	0.00	0.50	0.50
Lenawee	7	1,102	0.00	0.01	0.45	0.46
Livingston	11	1,945	0.00	0.00	0.17	0.17
Luce	2	111	0.00	0.00	0.04	0.04
Mackinac	1	125	6.29	0.00	0.02	6.31
Macomb	4	404	0.00	0.00	0.05	0.05
Manistee	4	908	13.33	18.25	0.65	32.22
Marquette	2	1,820	0.00	17.82	0.21	18.03
Mason	6	1,419	22.68	0.00	0.38	23.06
Mecosta	2	170	0.00	0.00	0.57	0.57
Menominee	2	625	0.00	3.38	0.02	3.40
Midland	2	4,175	0.00	5.63	0.05	5.68
Monroe	6	640	0.00	1.86	7.73	9.59
Montcalm	1	500	0.00	0.00	0.13	0.13
Muskegon	20	3,857	21.43	4.35	3.31	29.09
Newaygo	1	6	0.00	0.00	0.00	0.00
Oakland	25	7,363	0.00	0.09	0.96	1.05
Oceana	4	785	0.00	0.00	0.92	0.92
Ontonagon	2	1,430	6.16	0.00	0.00	6.16
Osceola	5	591	0.00	0.00	0.34	0.34
Otsego	4	657	0.00	0.00	0.32	0.32
Ottawa	13	2,946	0.59	8.56	0.97	10.12
Presque Isle	2	270	12.87	0.00	0.00	12.88
Roscommon	1	190	0.00	0.00	0.00	0.00
Saginaw	3	1,526	0.00	1.94	0.00	1.95
Saint Clair	5	2,713	13.57	0.00	0.31	13.88
Saint Joseph	14	2,731	0.00	0.31	4.84	5.15

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	0.20
Schoolcraft	2	220	5.04	5.93	0.00	10.98
Shiawassee	1	60	0.00	0.00	0.11	0.11
Tuscola	3	89	0.00	0.00	0.00	0.00
Van Buren	9	1,501	0.00	0.60	0.99	1.59
Washtenaw	13	5,436	0.00	0.56	1.95	2.50
Wayne	17	16,319	267.12	12.22	0.01	279.35
Wexford	4	1,243	0.00	0.00	3.79	3.79
Total	387	128,656	419.78	118.75	88.58	627.11

* 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: 2003 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	6.16	0.00	0.00	6.16
04020105	1	190	0.54	0.00	0.00	0.54
04020201	2	688	5.14	0.00	0.36	5.50
04020202	2	111	0.00	0.00	0.04	0.04
04030108	2	395	0.00	20.94	0.33	21.27
04030109	1	250	0.00	0.00	0.02	0.02
04030110	2	1,820	0.00	17.82	0.21	18.03
04030111	4	1,350	36.84	0.33	0.11	37.27
04040001	1	43	0.00	0.25	0.00	0.25
04050001	51	8,779	0.00	1.49	9.14	10.63
04050002	8	3,660	0.59	7.44	0.69	8.72
04050003	29	16,409	0.00	9.13	40.83	49.96
04050004	18	10,266	0.00	0.14	0.82	0.96
04050005	2	94	0.00	0.00	0.82	0.82
04050006	32	5,985	0.01	1.91	1.57	3.49
04050007	11	6,314	0.00	0.28	0.18	0.46
04060101	16	2,568	22.68	0.00	1.71	24.38
04060102	22	5,169	21.43	4.35	4.45	30.23
04060103	5	933	13.33	18.25	3.26	34.83
04060104	10	835	0.00	0.01	0.86	0.87
04060105	16	2,841	4.94	0.00	9.81	14.74
04060106	1	155	0.00	5.93	0.00	5.93
04060107	1	65	5.04	0.00	0.00	5.04
04070001	2	60	0.81	0.00	0.00	0.81
04070002	1	125	6.29	0.00	0.02	6.31
04070003	3	520	15.31	0.00	0.01	15.31
04070004	3	162	0.00	0.26	0.09	0.36
04070006	2	830	0.00	6.79	0.00	6.79
04070007	7	1,057	0.00	0.07	0.48	0.55
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	0.24	0.24
04080103	3	260	0.00	0.00	0.03	0.03
04080104	1	400	0.00	0.00	0.04	0.04
04080201	3	4,182	0.00	5.63	0.05	5.68
04080202	3	890	0.00	0.00	0.38	0.38
04080203	7	1,475	0.00	0.00	0.20	0.20
04080204	9	8,447	0.00	0.00	0.14	0.14
04080205	4	104	0.00	0.08	0.00	0.08
04080206	7	3,367	0.00	2.82	0.00	2.83
04090001	7	3,343	13.57	0.00	0.39	13.96
04090003	11	1,732	0.00	0.00	0.67	0.67
04090004	25	16,730	267.12	2.02	0.09	269.23
04090005	30	12,180	0.00	10.84	2.29	13.13
04100001	4	65	0.00	0.37	7.67	8.04
04100002	10	1,698	0.00	1.50	0.51	2.01
04100003	1	292	0.00	0.00	0.00	0.00
Total	387	128,656	419.78	118.75	88.58	627.11

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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

