

Table 1: 1999 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County	Self-Supplied Industries		Water Withdrawn (MGD)			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	5.65	0.00	0.24	5.88
Allegan	16	4,866	0.00	0.63	7.61	8.24
Alpena	4	1,310	7.63	6.05	0.07	13.75
Antrim	2	260	0.00	0.00	0.08	0.08
Arenac	1	52	0.00	0.00	0.25	0.25
Baraga	1	190	0.61	0.00	0.00	0.61
Barry	4	956	0.00	0.00	0.22	0.22
Bay	4	1,841	0.00	1.92	0.00	1.92
Benzie	2	250	0.00	0.00	0.33	0.33
Berrien	17	2,540	0.00	4.10	1.17	5.27
Branch	5	906	0.00	0.15	1.07	1.22
Calhoun	11	5,235	0.00	2.06	5.48	7.54
Cass	4	847	0.00	0.00	1.21	1.21
Charlevoix	5	1,110	4.92	0.00	9.66	14.58
Cheboygan	1	70	0.00	0.24	0.09	0.33
Chippewa	1	30	0.82	0.00	0.00	0.82
Clinton	3	99	0.00	0.00	0.60	0.60
Crawford	4	302	0.00	0.07	0.15	0.22
Delta	3	1,346	40.01	0.24	0.11	40.35
Dickinson	1	20	0.00	17.39	0.42	17.82
Eaton	1	35	0.00	0.00	0.00	0.00
Emmet	3	430	0.07	0.00	0.03	0.10
Genesee	9	11,482	0.00	0.00	0.21	0.21
Gladwin	2	7	0.00	0.00	0.00	0.00
Gogebic	2	150	0.00	0.00	0.05	0.05
Grand Traverse	6	1,405	0.00	0.00	0.86	0.86
Gratiot	3	706	0.00	0.00	0.24	0.24
Hillsdale	3	623	0.00	0.00	1.22	1.22
Huron	3	260	0.00	0.00	0.05	0.05
Ingham	4	9,182	0.00	0.00	0.24	0.24
Ionia	3	938	0.00	0.15	0.05	0.20

County	Self-Supplied Industries		Water Withdrawn (MGD)			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	1,229	0.00	0.01	0.90	0.90
Kalamazoo	14	11,560	0.00	23.36	34.16	57.52
Kalkaska	1	50	0.00	0.00	0.00	0.00
Kent	25	8,518	0.00	1.23	4.66	5.89
Lapeer	2	255	0.00	0.00	0.03	0.03
Leelanau	4	191	0.00	0.00	0.53	0.53
Lenawee	7	1,102	0.00	0.01	0.22	0.23
Livingston	12	2,105	0.00	0.00	0.20	0.20
Luce	2	111	0.00	0.00	0.02	0.02
Mackinac	1	125	6.57	0.00	0.00	6.57
Macomb	8	899	0.00	0.16	0.54	0.69
Manistee	5	918	36.36	0.00	0.65	37.01
Marquette	2	1,820	0.00	15.23	0.18	15.41
Mason	7	1,674	21.41	0.00	0.43	21.84
Mecosta	1	170	0.00	0.00	0.15	0.15
Menominee	3	925	0.00	2.96	0.02	2.98
Midland	2	4,175	0.00	5.95	0.00	5.95
Missaukee	2	186	0.00	0.00	0.00	0.00
Monroe	10	727	0.00	1.48	11.19	12.67
Montcalm	1	500	0.00	0.00	0.18	0.18
Muskegon	23	4,784	20.76	5.80	4.45	31.01
Newaygo	3	619	0.00	0.00	0.02	0.02
Oakland	29	11,518	0.00	0.00	2.14	2.14
Oceana	4	785	0.00	0.00	0.83	0.83
Ontonagon	2	1,430	16.27	0.00	0.00	16.27
Osceola	5	591	0.00	0.00	0.31	0.31
Oscoda	1	48	0.00	0.00	0.01	0.01
Otsego	4	657	0.00	0.00	0.13	0.13
Ottawa	14	3,224	8.81	1.95	0.44	11.20
Presque Isle	2	270	1.19	0.00	0.01	1.20
Roscommon	1	190	0.00	0.00	0.00	0.00
Saginaw	3	1,555	0.00	1.10	0.00	1.11

County	Self-Supplied Industries		Water Withdrawn (MGD)			
	Number of Facilities	Number of Employees	Great Lakes	Surface Water	Ground Water	Total
Saint Clair	4	2,713	13.29	0.00	0.00	13.29
Saint Joseph	14	2,731	0.00	0.13	6.27	6.40
Sanilac	5	1,225	0.00	0.00	0.22	0.22
Schoolcraft	2	220	5.20	5.77	0.00	10.96
Shiawassee	1	60	0.00	0.00	0.10	0.10
Tuscola	2	89	0.00	0.00	0.00	0.00
Van Buren	10	1,501	0.00	2.88	0.84	3.72
Washtenaw	15	5,719	0.00	2.92	0.58	3.50
Wayne	21	17,387	266.52	2.54	0.11	269.17
Wexford	4	1,243	0.00	0.00	3.27	3.27
Total	425	144,240	456.09	106.56	105.49	668.14

* 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

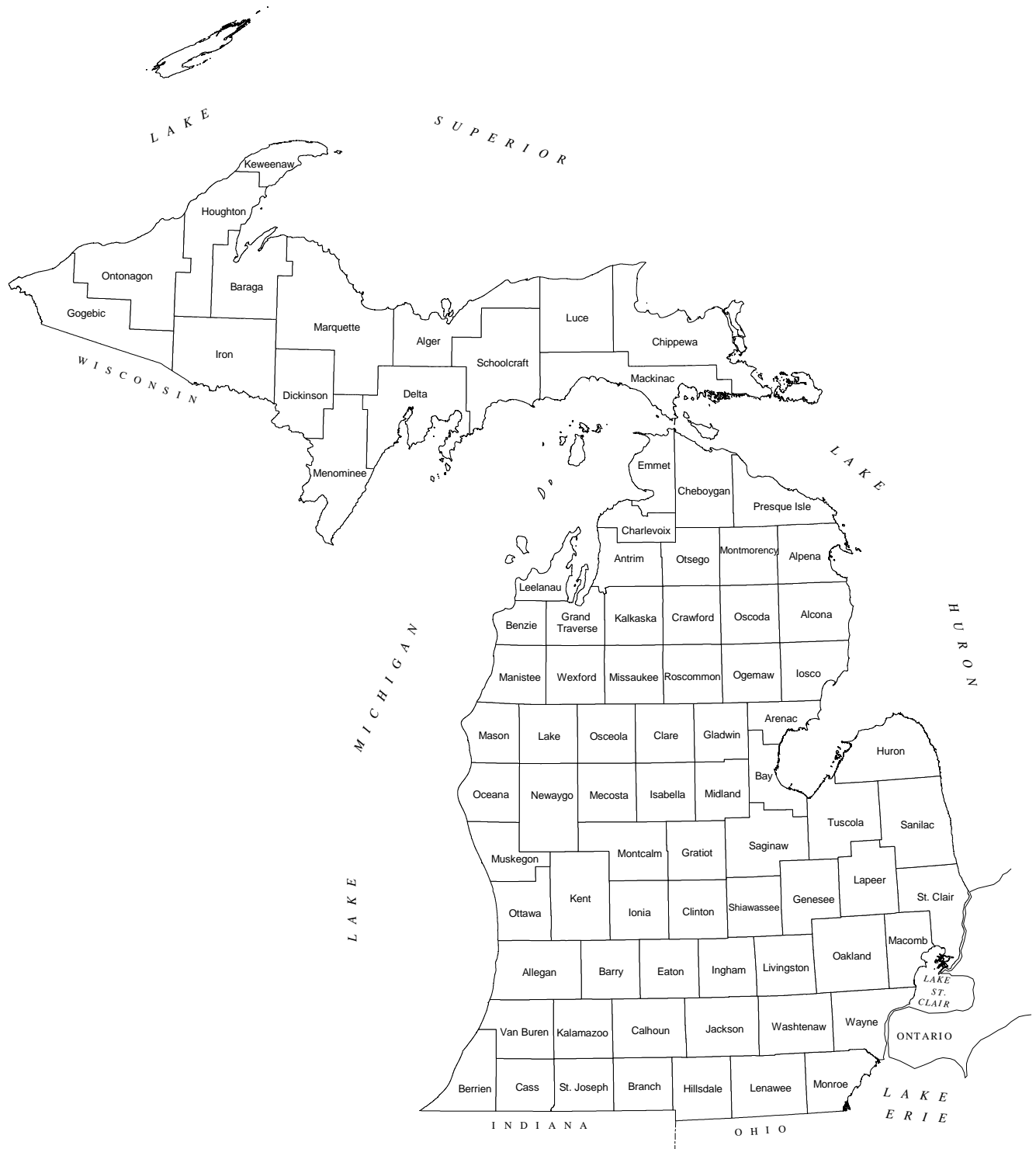


Table 2: 1999 Water Withdrawals for Self-Supplied Industrial Facilities in Michigan, by Hydrologic Basin*

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	0.05	0.05
04020101	2	1,215	9.48	0.00	0.00	9.48
04020102	1	280	6.79	0.00	0.00	6.79
04020105	1	190	0.61	0.00	0.00	0.61
04020201	2	688	5.65	0.00	0.24	5.88
04020202	2	111	0.00	0.00	0.02	0.02
04030108	2	395	0.00	20.36	0.42	20.78
04030109	2	550	0.00	0.00	0.02	0.02
04030110	2	1,820	0.00	15.23	0.18	15.41
04030111	3	1,346	40.01	0.24	0.11	40.35
04040001	1	43	0.00	2.33	0.00	2.33
04050001	53	9,164	0.00	5.99	11.59	17.58
04050002	8	3,758	8.80	0.26	0.24	9.31
04050003	36	19,289	0.00	25.00	46.30	71.30
04050004	19	10,416	0.00	0.01	1.14	1.15
04050005	2	94	0.00	0.00	0.59	0.59
04050006	34	6,238	0.01	2.77	5.11	7.89
04050007	10	6,314	0.00	0.29	0.32	0.61
04060101	17	2,823	21.55	0.00	1.92	23.46
04060102	28	6,895	20.63	5.80	5.28	31.70
04060103	6	943	36.36	0.00	2.76	39.12
04060104	6	780	0.00	0.00	1.04	1.04
04060105	17	2,916	4.99	0.00	10.45	15.45
04060106	1	155	0.00	5.77	0.00	5.77
04060107	1	65	5.20	0.00	0.00	5.20
04070001	1	30	0.82	0.00	0.00	0.82
04070002	1	125	6.57	0.00	0.00	6.57
04070003	3	520	3.80	0.00	0.01	3.81
04070004	3	162	0.00	0.24	0.09	0.33
04070006	3	1,060	5.02	6.05	0.07	11.14
04070007	8	1,105	0.00	0.07	0.28	0.35
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	0.25	0.25
04080103	3	260	0.00	0.00	0.05	0.05
04080104	1	400	0.00	0.00	0.05	0.05
04080201	4	4,182	0.00	5.95	0.00	5.95
04080202	3	890	0.00	0.00	0.38	0.38
04080203	10	1,576	0.00	0.00	0.23	0.23
04080204	10	11,247	0.00	0.00	0.21	0.21
04080205	4	284	0.00	0.00	0.07	0.07
04080206	6	3,346	0.00	3.02	0.00	3.02
04090001	6	3,343	13.29	0.00	0.10	13.39
04090002	1	400	0.00	0.00	0.24	0.24
04090003	16	2,182	0.00	0.16	1.42	1.58
04090004	29	17,798	266.52	1.63	0.23	268.38
04090005	34	16,378	0.00	3.83	1.58	5.40
04100001	5	67	0.00	0.07	1.73	1.80
04100002	13	1,783	0.00	1.43	10.72	12.15
04100003	1	292	0.00	0.00	0.00	0.00
Total	425	144,240	456.09	106.56	105.49	668.14

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

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-Charlevoi	04080205	Cass
04030108	Menominee	04060106	Manistique	04080206	Saginaw
04030109	Cedar-Ford	04060107	Brevoort-Millecoquin	04090001	Saint Clair
04030110	Escanaba	04070001	Saint Marys	04090002	Lake Saint Clair
04030111	Tacoosh-Whitefish	04070002	Carp-Pine	04090003	Clinton
04040001	Little Calumet-Galien	04070003	Lone Lake-Ocqueoc	04090004	Detroit
04050001	Saint Joseph	04070004	Cheboygan	04090005	Huron
04050002	Black-Macatawa	04070006	Thunder Bay	04100001	Ottawa-Stony
04050003	Kalamazoo	04070007	Au Sable	04100002	Raisin
04050004	Upper Grand	04080101	Au Gres-Rifle	04100003	Laird-Saint Joseph
04050005	Maple	04080102	Kawkawlin-Pine		
04050006	Lower Grand	04080103	Pigeon-Wiscoggin		

Index Map of Michigan Hydrologic Basins

