

Table 1: 2003 Water Withdrawals for Major Water Uses in Michigan, by County*

County	Number of Facilities	Water Withdrawn (MGD)			Total
		Great Lakes	Surface Water	Ground Water	
Alcona	13	0.00	0.14	0.70	0.84
Alger	10	5.14	0.01	0.97	6.12
Allegan	152	0.00	8.48	8.90	17.38
Alpena	11	114.71	6.90	0.80	122.41
Antrim	33	0.00	0.37	3.15	3.52
Arenac	22	35.04	0.03	0.37	35.44
Baraga	6	1.86	0.01	0.30	2.17
Barry	45	0.00	1.03	2.58	3.61
Bay	55	602.28	2.70	0.22	605.20
Benzie	29	0.00	0.03	1.68	1.71
Berrien	171	1,934.91	5.78	11.62	1,952.31
Branch	110	0.00	8.56	14.74	23.30
Calhoun	79	0.00	4.68	25.31	29.99
Cass	93	0.00	3.03	14.97	18.00
Charlevoix	29	39.17	0.10	11.15	50.42
Cheboygan	14	0.00	0.38	1.61	1.99
Chippewa	15	3.05	0.17	1.14	4.36
Clare	10	0.00	0.16	1.38	1.54
Clinton	40	0.00	1.09	3.88	4.97
Crawford	12	0.00	0.16	1.32	1.48
Delta	23	61.68	0.64	0.48	62.80
Dickinson	12	0.00	17.70	3.15	20.85
Eaton	34	0.00	1.96	3.98	5.94
Emmet	47	0.00	0.04	4.73	4.77
Genesee	90	0.00	1.08	8.68	9.76
Gladwin	11	0.00	0.01	0.60	0.61
Gogebic	12	0.00	0.00	2.22	2.22
Grand Traverse	75	4.93	0.69	2.85	8.47
Gratiot	46	0.00	2.12	4.25	6.37
Hillsdale	44	0.00	1.09	4.50	5.59
Houghton	22	0.00	0.06	3.66	3.72
Huron	41	69.18	0.20	1.82	71.20
Ingham	51	0.00	241.14	37.77	278.91

County	Number of Facilities	Water Withdrawn (MGD)			Total
		Great Lakes	Surface Water	Ground Water	
Ionia	46	0.00	0.61	6.70	7.31
Iosco	20	1.33	0.23	0.38	1.94
Iron	22	0.00	0.31	2.92	3.23
Isabella	31	0.00	0.99	5.34	6.33
Jackson	75	0.00	1.47	14.51	15.98
Kalamazoo	119	0.00	9.35	70.24	79.59
Kalkaska	11	0.00	0.23	1.54	1.77
Kent	145	49.33	2.86	13.48	65.67
Keweenaw	6	0.01	0.00	0.06	0.07
Lake	5	0.00	0.00	0.33	0.33
Lapeer	38	0.00	1.04	1.51	2.55
Leelanau	50	0.02	0.17	1.89	2.08
Lenawee	62	0.00	4.59	4.41	9.00
Livingston	85	0.00	0.65	9.54	10.19
Luce	8	0.00	0.22	0.74	0.96
Mackinac	10	7.01	0.04	0.80	7.85
Macomb	61	3.00	2.74	2.87	8.61
Manistee	36	16.12	18.43	3.34	37.89
Marquette	34	251.50	18.03	3.03	272.56
Mason	38	24.81	0.27	1.32	26.40
Mecosta	30	0.00	1.04	4.99	6.03
Menominee	10	1.20	3.47	0.24	4.91
Midland	19	0.08	11.84	0.74	12.66
Missaukee	21	0.00	0.21	2.41	2.62
Monroe	49	1,762.40	4.77	9.37	1,776.54
Montcalm	97	0.00	5.44	31.65	37.09
Montmorency	5	0.00	0.20	0.13	0.33
Muskegon	75	275.19	5.01	8.66	288.86
Newaygo	41	0.00	2.15	4.60	6.75
Oakland	187	0.00	2.30	29.45	31.75
Oceana	36	0.00	1.13	3.24	4.37
Ogemaw	12	0.00	0.12	0.53	0.65
Ontonagon	10	6.16	0.05	0.49	6.70
Osceola	22	0.00	0.28	4.15	4.43
Oscoda	9	0.00	0.32	0.42	0.74

County	Number of Facilities	Water Withdrawn (MGD)			Total
		Great Lakes	Surface Water	Ground Water	
Otsego	30	0.00	0.33	2.33	2.66
Ottawa	154	731.73	103.44	8.56	843.73
Presque Isle	17	12.87	0.41	1.32	14.60
Roscommon	21	0.00	0.02	0.62	0.64
Saginaw	51	12.54	3.24	2.18	17.96
Saint Clair	108	1,619.61	0.37	1.22	1,621.20
Saint Joseph	193	0.00	18.33	42.96	61.29
Sanilac	37	0.19	0.21	2.53	2.93
Schoolcraft	6	5.04	6.42	0.03	11.49
Shiawassee	39	0.00	0.38	4.31	4.69
Tuscola	48	2.30	0.07	3.99	6.36
Van Buren	146	121.01	2.70	14.74	138.45
Washtenaw	83	0.00	13.92	10.56	24.48
Wayne	136	1,687.80	13.32	0.85	1,701.97
Wexford	18	0.00	0.03	7.04	7.07
Total	4,069	9,463.20	574.29	534.74	10,572.23

* This report is provided by the Michigan Department of Environmental Quality and was generated using data collected for the water use reporting program for thermoelectric power generation, public water supply, self-supplied industrial, and irrigation.

Index Map of Michigan Counties

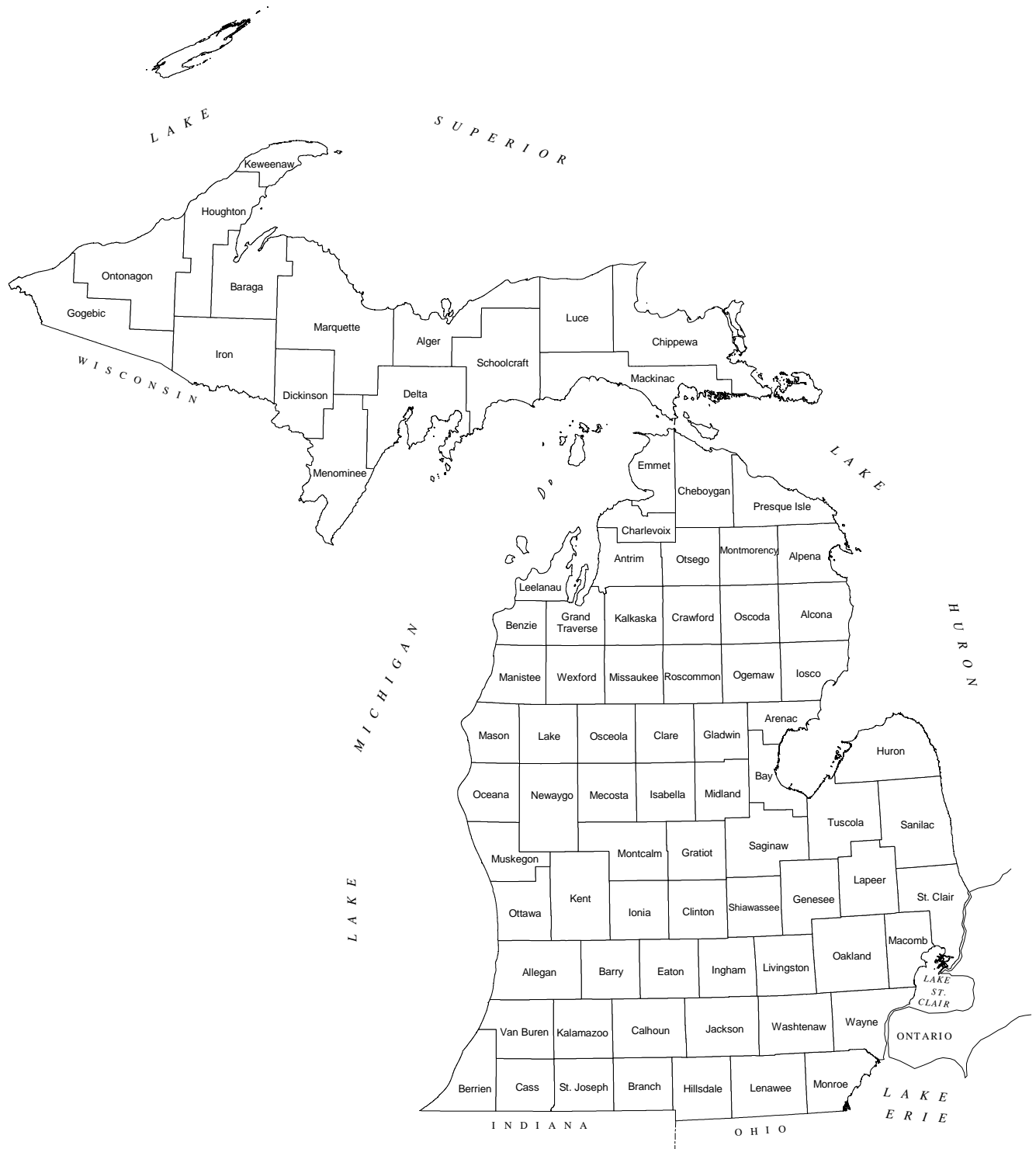


Table 2: 2003 Water Withdrawals for Major Water Uses in Michigan, by Hydrologic Basin*

Hydrologic Basin Code	Number of Facilities	Water Withdrawn ((MGD))			
		Great Lakes	Surface Water	Ground Water	Total
04010302	3	0.00	0.00	1.31	1.31
04020101	9	0.00	0.00	0.86	0.86
04020102	8	6.16	0.00	0.52	6.68
04020103	29	0.01	0.05	3.74	3.80
04020104	1	0.00	0.00	0.00	0.00
04020105	23	253.37	0.03	1.95	255.35
04020201	12	5.14	0.01	0.99	6.14
04020202	7	0.00	0.12	0.76	0.88
04020203	3	0.00	0.08	0.10	0.18
04030106	19	0.00	0.00	2.73	2.73
04030107	4	0.00	0.48	0.28	0.76
04030108	18	0.00	21.13	3.33	24.46
04030109	6	1.20	0.00	0.10	1.30
04030110	14	0.00	18.22	1.18	19.40
04030111	16	61.68	0.45	0.38	62.51
04030112	2	0.00	0.00	0.05	0.05
04040001	20	1,924.81	0.43	0.36	1,925.60
04050001	739	8.05	41.81	118.25	168.11
04050002	183	854.31	61.87	7.78	923.96
04050003	257	0.00	17.74	87.86	105.60
04050004	153	0.00	244.05	55.23	299.28
04050005	61	0.00	1.26	5.91	7.17
04050006	308	50.14	51.70	46.13	147.97
04050007	73	0.00	1.35	5.00	6.35
04060101	128	35.40	1.62	8.60	45.62
04060102	160	263.96	8.26	29.28	301.50
04060103	46	16.12	18.63	7.83	42.58
04060104	77	0.00	0.28	3.56	3.84
04060105	192	44.11	0.84	22.98	67.93
04060106	8	0.00	6.43	0.09	6.52
04060107	4	5.04	0.02	0.12	5.18
04070001	11	2.97	0.04	1.05	4.06
04070002	6	7.08	0.00	0.72	7.80

Hydrologic Basin Code	Number of Facilities	Water Withdrawn ((MGD))			
		Great Lakes	Surface Water	Ground Water	Total
04070003	21	15.31	0.33	1.06	16.70
04070004	28	0.00	0.48	1.72	2.20
04070005	5	0.00	0.04	0.33	0.37
04070006	19	112.27	7.35	1.24	120.86
04070007	53	0.08	0.76	4.56	5.40
04080101	43	36.28	0.26	0.82	37.36
04080102	21	0.27	0.77	0.42	1.46
04080103	67	2.07	1.26	2.43	5.76
04080104	73	235.71	0.02	0.46	236.19
04080201	40	0.08	11.81	2.00	13.89
04080202	65	0.00	2.81	9.43	12.24
04080203	107	0.00	2.70	14.31	17.01
04080204	104	0.00	1.63	6.22	7.85
04080205	43	0.98	0.30	3.74	5.02
04080206	52	614.68	2.91	0.30	617.89
04090001	72	1,450.67	1.16	4.13	1,455.96
04090002	20	5.10	0.26	1.35	6.71
04090003	137	7.52	4.00	22.18	33.70
04090004	166	1,680.05	3.42	2.14	1,685.61
04090005	180	0.16	24.98	19.08	44.22
04100001	40	1,753.56	2.10	9.00	1,764.66
04100002	88	8.86	7.29	7.58	23.73
04100003	9	0.00	0.12	0.20	0.32
04100006	16	0.00	0.63	1.01	1.64
Total	4,069	9,463.20	574.29	534.74	10,572.23

* This report is provided by the Michigan Department of Environmental Quality and was generated using data collected for the water use reporting program for thermoelectric power generation, public water supply, self-supplied industrial, and irrigation.

Index Map of Michigan Hydrologic Basins

