

Table 1: 2002 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County	Number of Facilities	Water Withdrawn (MGD)			Total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	0.06	0.78	0.84
Alger	10	5.08	0.01	0.79	5.88
Allegan	152	0.00	9.04	10.09	19.13
Alpena	11	119.06	0.11	0.83	120.00
Antrim	34	0.00	0.47	3.24	3.71
Arenac	22	38.16	0.01	0.29	38.46
Baraga	6	2.17	0.01	0.00	2.18
Barry	45	0.00	1.13	2.90	4.03
Bay	55	637.65	3.48	0.20	641.33
Benzie	29	0.00	0.03	1.83	1.86
Berrien	172	2,095.75	6.53	12.38	2,114.66
Branch	110	0.00	12.13	20.85	32.98
Calhoun	80	0.00	5.90	26.89	32.79
Cass	93	0.00	3.14	15.59	18.73
Charlevoix	30	49.47	0.10	4.02	53.59
Cheboygan	14	0.00	0.50	1.59	2.09
Chippewa	15	2.87	0.06	1.18	4.11
Clare	10	0.00	0.18	1.49	1.67
Clinton	40	0.00	1.27	4.16	5.43
Crawford	12	0.00	0.08	1.31	1.39
Delta	22	59.54	0.45	0.68	60.67
Dickinson	12	0.00	18.33	2.93	21.26
Eaton	34	0.00	2.63	4.10	6.73
Emmet	47	0.00	0.06	4.34	4.40
Genesee	91	0.00	1.29	9.31	10.60
Gladwin	11	0.00	0.01	0.60	0.61
Gogebic	12	0.00	0.00	1.82	1.82
Grand Traverse	77	7.33	0.28	3.50	11.11
Gratiot	47	0.00	2.06	4.23	6.29
Hillsdale	44	0.00	1.70	4.80	6.50
Houghton	22	0.00	0.06	3.48	3.54
Huron	41	73.29	0.18	1.88	75.35
Ingham	51	0.00	201.82	39.62	241.44

County	Number of Facilities	Water Withdrawn (MGD)			
		Great Lakes	Surface Water	Ground Water	Total
Ionia	46	0.00	0.72	7.12	7.84
Iosco	20	1.34	0.24	0.48	2.06
Iron	22	0.00	0.28	2.58	2.86
Isabella	31	0.00	0.97	5.39	6.36
Jackson	75	0.00	1.97	15.71	17.68
Kalamazoo	119	0.00	9.53	72.70	82.23
Kalkaska	11	0.00	0.26	1.64	1.90
Kent	146	47.18	3.03	13.07	63.28
Keweenaw	6	0.01	0.00	0.06	0.07
Lake	6	0.00	0.03	0.30	0.33
Lapeer	38	0.00	1.20	0.90	2.10
Leelanau	50	0.00	0.17	1.94	2.11
Lenawee	62	0.00	5.48	4.38	9.86
Livingston	87	0.00	0.74	10.19	10.93
Luce	8	0.00	0.16	0.79	0.95
Mackinac	10	21.79	0.04	0.13	21.96
Macomb	62	4.41	3.24	1.65	9.30
Manistee	37	20.20	16.93	3.68	40.81
Marquette	34	254.86	14.18	2.65	271.69
Mason	39	23.00	0.39	1.39	24.78
Mecosta	30	0.00	1.00	5.12	6.12
Menominee	11	1.21	2.96	0.23	4.40
Midland	19	0.07	11.48	0.62	12.17
Missaukee	22	0.00	0.33	3.18	3.51
Monroe	50	1,713.38	5.54	17.49	1,736.41
Montcalm	97	0.00	5.29	30.98	36.27
Montmorency	5	0.00	0.19	0.15	0.34
Muskegon	76	314.04	5.06	9.34	328.44
Newaygo	41	0.00	2.18	4.41	6.59
Oakland	191	0.00	2.80	34.33	37.13
Oceana	36	0.00	1.38	3.77	5.15
Ogemaw	12	0.00	0.12	0.57	0.69
Ontonagon	11	8.58	0.04	0.13	8.75
Osceola	23	0.00	0.39	4.31	4.70
Oscoda	9	0.00	0.28	0.35	0.63

County	Number of Facilities	Water Withdrawn (MGD)			Total
		Great Lakes	Surface Water	Ground Water	
Otsego	30	0.00	0.14	2.51	2.65
Ottawa	154	771.95	44.55	9.87	826.37
Presque Isle	17	8.21	0.43	1.32	9.96
Roscommon	21	0.00	0.00	0.59	0.59
Saginaw	51	12.22	2.79	2.01	17.02
Saint Clair	107	1,718.82	0.43	0.99	1,720.24
Saint Joseph	193	0.00	21.93	50.50	72.43
Sanilac	37	0.21	0.20	2.58	2.99
Schoolcraft	6	5.37	6.29	0.03	11.69
Shiawassee	39	0.00	0.32	4.47	4.79
Tuscola	47	2.29	0.08	3.72	6.09
Van Buren	146	135.60	2.94	13.92	152.46
Washtenaw	83	0.00	15.95	11.18	27.13
Wayne	137	1,768.02	13.39	0.99	1,782.40
Wexford	18	0.00	0.20	7.72	7.92
Total	4,092	9,923.13	481.35	565.83	10,970.31

* 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

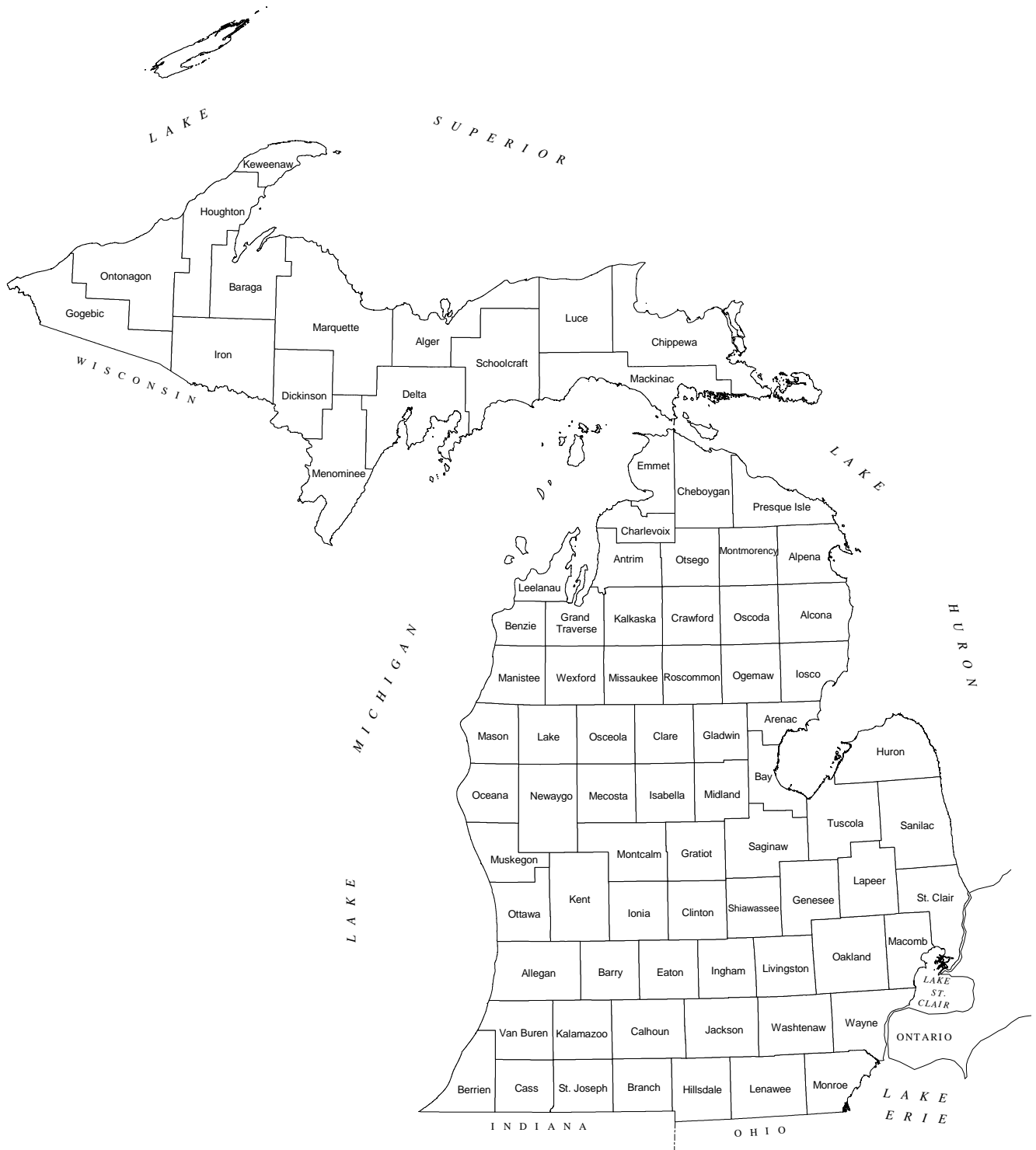


Table 2: 2002 Water Withdrawals for Major Water Uses in Michigan, by Hydrologic Basin*

Hydrologic Basin Code	Number of Facilities	Water Withdrawn ((MGD))			Total
		Great Lakes	Surface Water	Ground Water	
04010302	3	0.00	0.00	1.29	1.29
04020101	10	0.13	0.00	0.48	0.61
04020102	8	8.45	0.00	0.16	8.61
04020103	29	0.01	0.05	3.56	3.62
04020104	1	0.00	0.00	0.00	0.00
04020105	23	257.03	0.05	1.46	258.54
04020201	12	5.08	0.01	0.80	5.89
04020202	7	0.00	0.06	0.79	0.85
04020203	3	0.00	0.02	0.17	0.19
04030106	19	0.00	0.00	2.38	2.38
04030107	4	0.00	0.46	0.22	0.68
04030108	18	0.00	21.23	3.09	24.32
04030109	7	1.21	0.00	0.09	1.30
04030110	14	0.00	14.30	1.04	15.34
04030111	16	59.54	0.30	0.59	60.43
04030112	2	0.00	0.00	0.06	0.06
04040001	20	2,085.17	0.66	0.40	2,086.23
04050001	740	8.58	50.79	134.06	193.43
04050002	182	909.45	4.25	8.78	922.48
04050003	258	0.00	19.03	91.45	110.48
04050004	153	0.00	205.54	58.12	263.66
04050005	61	0.00	1.28	6.08	7.36
04050006	309	47.68	50.86	46.94	145.48
04050007	74	0.00	1.84	5.41	7.25
04060101	129	32.98	1.98	9.29	44.25
04060102	163	303.31	8.48	29.74	341.53
04060103	48	20.20	17.27	9.13	46.60
04060104	77	0.00	0.31	3.89	4.20
04060105	196	56.80	0.50	16.06	73.36
04060106	8	0.00	6.30	0.10	6.40
04060107	4	5.37	0.02	0.12	5.51
04070001	10	2.81	0.01	1.00	3.82
04070002	6	21.84	0.00	0.03	21.87

Hydrologic Basin Code	Number of Facilities	Water Withdrawn ((MGD))			
		Great Lakes	Surface Water	Ground Water	Total
04070003	21	10.69	0.33	1.06	12.08
04070004	28	0.00	0.40	1.93	2.33
04070005	5	0.00	0.02	0.32	0.34
04070006	19	116.58	0.48	1.39	118.45
04070007	53	0.09	0.63	4.48	5.20
04080101	43	39.41	0.23	0.87	40.51
04080102	21	0.27	0.76	0.40	1.43
04080103	67	2.21	1.27	2.46	5.94
04080104	73	235.85	0.04	0.50	236.39
04080201	40	0.07	11.39	1.97	13.43
04080202	65	0.00	2.81	9.55	12.36
04080203	109	0.00	2.89	14.74	17.63
04080204	105	0.00	1.87	6.74	8.61
04080205	42	0.97	0.30	3.50	4.77
04080206	52	649.71	3.36	0.28	653.35
04090001	71	1,553.59	1.33	3.22	1,558.14
04090002	20	6.77	0.28	0.24	7.29
04090003	140	7.00	4.60	26.43	38.03
04090004	167	1,760.66	3.45	2.53	1,766.64
04090005	183	0.23	27.22	19.94	47.39
04100001	40	1,704.85	3.14	8.90	1,716.89
04100002	89	8.54	7.76	16.12	32.42
04100003	9	0.00	0.22	0.30	0.52
04100006	16	0.00	0.97	1.18	2.15
Total	4,092	9,923.13	481.35	565.83	10,970.31

* 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.

