

Table 1: 2004 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County	Number of Facilities	Water Withdrawn (MGD)			Total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	0.13	0.66	0.79
Alger	10	5.67	0.01	0.92	6.60
Allegan	151	0.00	8.01	10.24	18.25
Alpena	11	115.16	4.16	0.72	120.04
Antrim	33	0.00	0.35	3.23	3.58
Arenac	22	83.52	0.03	0.34	83.89
Baraga	6	1.20	0.01	0.00	1.21
Barry	45	0.00	1.04	2.63	3.67
Bay	55	553.96	2.44	0.20	556.60
Benzie	29	0.00	0.03	1.59	1.62
Berrien	168	2,211.38	4.61	11.67	2,227.66
Branch	110	0.00	9.76	16.81	26.57
Calhoun	79	0.00	5.06	23.89	28.95
Cass	93	0.00	3.03	15.02	18.05
Charlevoix	29	8.15	0.13	12.55	20.83
Cheboygan	14	0.00	0.34	1.45	1.79
Chippewa	15	3.10	0.10	1.12	4.32
Clare	10	0.00	0.17	1.32	1.49
Clinton	39	0.00	1.01	3.79	4.80
Crawford	12	0.00	0.08	1.44	1.52
Delta	23	61.35	0.61	0.35	62.31
Dickinson	12	0.00	19.20	3.18	22.38
Eaton	35	0.00	1.47	3.74	5.21
Emmet	47	0.00	0.04	4.69	4.73
Genesee	90	0.00	0.94	6.55	7.49
Gladwin	11	0.00	0.01	0.57	0.58
Gogebic	12	0.00	0.00	1.89	1.89
Grand Traverse	73	4.91	0.23	3.13	8.27
Gratiot	46	0.00	1.93	4.19	6.12
Hillsdale	45	0.00	1.28	5.22	6.50
Houghton	21	0.00	0.04	3.52	3.56
Huron	40	70.24	0.16	1.61	72.01
Ingham	51	0.00	232.99	40.86	273.85

County	Number of Facilities	Water Withdrawn (MGD)			
		Great Lakes	Surface Water	Ground Water	Total
Ionia	46	0.00	0.54	6.57	7.11
Iosco	20	1.29	0.27	0.49	2.05
Iron	22	0.00	0.26	2.27	2.53
Isabella	31	0.00	0.93	5.10	6.03
Jackson	76	0.00	1.30	13.76	15.06
Kalamazoo	120	0.00	9.04	65.08	74.12
Kalkaska	11	0.00	0.20	1.51	1.71
Kent	142	54.06	2.76	12.77	69.59
Keweenaw	5	0.02	0.00	0.04	0.06
Lake	5	0.00	0.00	0.32	0.32
Lapeer	38	0.00	0.75	0.70	1.45
Leelanau	50	0.02	0.17	1.70	1.89
Lenawee	62	0.00	4.75	4.23	8.98
Livingston	84	0.00	0.61	7.26	7.87
Luce	8	0.00	0.22	0.69	0.91
Mackinac	10	8.22	0.04	0.13	8.39
Macomb	57	4.27	2.34	1.56	8.17
Manistee	37	16.30	19.02	3.31	38.63
Marquette	33	273.19	19.22	2.88	295.29
Mason	38	25.36	0.35	1.39	27.10
Mecosta	30	0.00	0.90	4.79	5.69
Menominee	10	1.19	2.78	0.23	4.20
Midland	19	0.08	11.52	0.72	12.32
Missaukee	21	0.00	0.25	2.61	2.86
Monroe	50	1,768.06	4.50	10.46	1,783.02
Montcalm	97	0.00	4.90	28.86	33.76
Montmorency	5	0.00	0.15	0.13	0.28
Muskegon	76	262.12	4.77	9.05	275.94
Newaygo	41	0.00	1.82	4.37	6.19
Oakland	181	0.00	2.09	27.14	29.23
Oceana	36	0.00	0.98	3.18	4.16
Ogemaw	12	0.00	0.14	0.51	0.65
Ontonagon	10	6.79	0.04	0.14	6.97
Osceola	22	0.00	0.29	4.07	4.36
Oscoda	9	0.00	0.29	0.40	0.69

County	Number of Facilities	Water Withdrawn (MGD)			Total
		Great Lakes	Surface Water	Ground Water	
Otsego	30	0.00	0.13	2.48	2.61
Ottawa	153	692.90	92.84	7.99	793.73
Presque Isle	16	8.98	0.39	1.31	10.68
Roscommon	21	0.00	0.02	0.63	0.65
Saginaw	51	12.40	3.02	1.97	17.39
Saint Clair	107	1,651.17	0.28	0.81	1,652.26
Saint Joseph	193	0.00	22.68	52.24	74.92
Sanilac	37	0.17	0.19	2.34	2.70
Schoolcraft	6	5.16	6.20	0.03	11.39
Shiawassee	39	0.00	0.27	4.20	4.47
Tuscola	48	1.98	0.07	3.82	5.87
Van Buren	147	117.10	1.83	13.63	132.56
Washtenaw	83	0.00	14.41	10.65	25.06
Wayne	136	1,685.54	165.91	0.96	1,852.41
Wexford	17	0.00	0.03	6.80	6.83
Total	4,048	9,715.01	705.86	527.37	10,948.24

* 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: 2004 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	1.14	1.14
04020101	9	0.00	0.00	0.70	0.70
04020102	8	6.79	0.00	0.16	6.95
04020103	27	0.02	0.03	3.58	3.63
04020104	1	0.00	0.00	0.00	0.00
04020105	22	274.39	0.05	1.56	276.00
04020201	12	5.67	0.00	0.93	6.60
04020202	7	0.00	0.12	0.69	0.81
04020203	3	0.00	0.07	0.08	0.15
04030106	19	0.00	0.00	2.11	2.11
04030107	4	0.00	0.48	0.27	0.75
04030108	18	0.00	21.92	3.34	25.26
04030109	6	1.19	0.00	0.10	1.29
04030110	14	0.00	19.33	1.13	20.46
04030111	16	61.36	0.46	0.22	62.04
04030112	2	0.00	0.00	0.04	0.04
04040001	20	2,202.06	0.28	0.39	2,202.73
04050001	737	7.44	45.74	128.75	181.93
04050002	184	811.79	52.54	7.06	871.39
04050003	257	0.00	17.10	82.10	99.20
04050004	155	0.00	235.20	57.31	292.51
04050005	60	0.00	1.09	5.70	6.79
04050006	305	54.44	49.57	42.47	146.48
04050007	73	0.00	1.50	5.06	6.56
04060101	128	34.28	1.52	8.41	44.21
04060102	159	252.60	7.89	29.79	290.28
04060103	46	16.30	19.20	7.73	43.23
04060104	78	0.00	0.28	3.46	3.74
04060105	190	13.07	0.43	24.64	38.14
04060106	8	0.00	6.21	0.09	6.30
04060107	4	5.16	0.01	0.11	5.28
04070001	11	3.07	0.03	1.09	4.19
04070002	6	8.23	0.00	0.09	8.32

Hydrologic Basin Code	Number of Facilities	Water Withdrawn ((MGD))			
		Great Lakes	Surface Water	Ground Water	Total
04070003	21	11.58	0.29	0.99	12.86
04070004	28	0.00	0.27	1.67	1.94
04070005	5	0.00	0.02	0.35	0.37
04070006	18	112.57	4.50	1.17	118.24
04070007	53	0.09	0.68	4.62	5.39
04080101	43	84.73	0.27	0.82	85.82
04080102	21	0.25	0.69	0.36	1.30
04080103	66	1.89	1.06	2.13	5.08
04080104	72	227.72	0.01	0.47	228.20
04080201	40	0.08	11.54	1.93	13.55
04080202	65	0.00	2.64	9.22	11.86
04080203	107	0.00	2.33	11.83	14.16
04080204	104	0.00	1.40	4.60	6.00
04080205	43	0.80	0.28	3.58	4.66
04080206	52	566.25	2.77	0.26	569.28
04090001	72	1,491.33	0.85	2.90	1,495.08
04090002	20	6.15	0.18	0.24	6.57
04090003	127	7.93	3.61	20.02	31.56
04090004	166	1,677.54	158.09	2.28	1,837.91
04090005	179	0.17	23.24	17.98	41.39
04100001	41	1,758.80	1.84	10.19	1,770.83
04100002	88	9.27	7.31	8.12	24.70
04100003	9	0.00	0.17	0.23	0.40
04100006	16	0.00	0.77	1.11	1.88
Total	4,048	9,715.01	705.86	527.37	10,948.24

* 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

