

**Table 1: 1997 Water Withdrawals for Major Water Uses in Michigan, by County\***

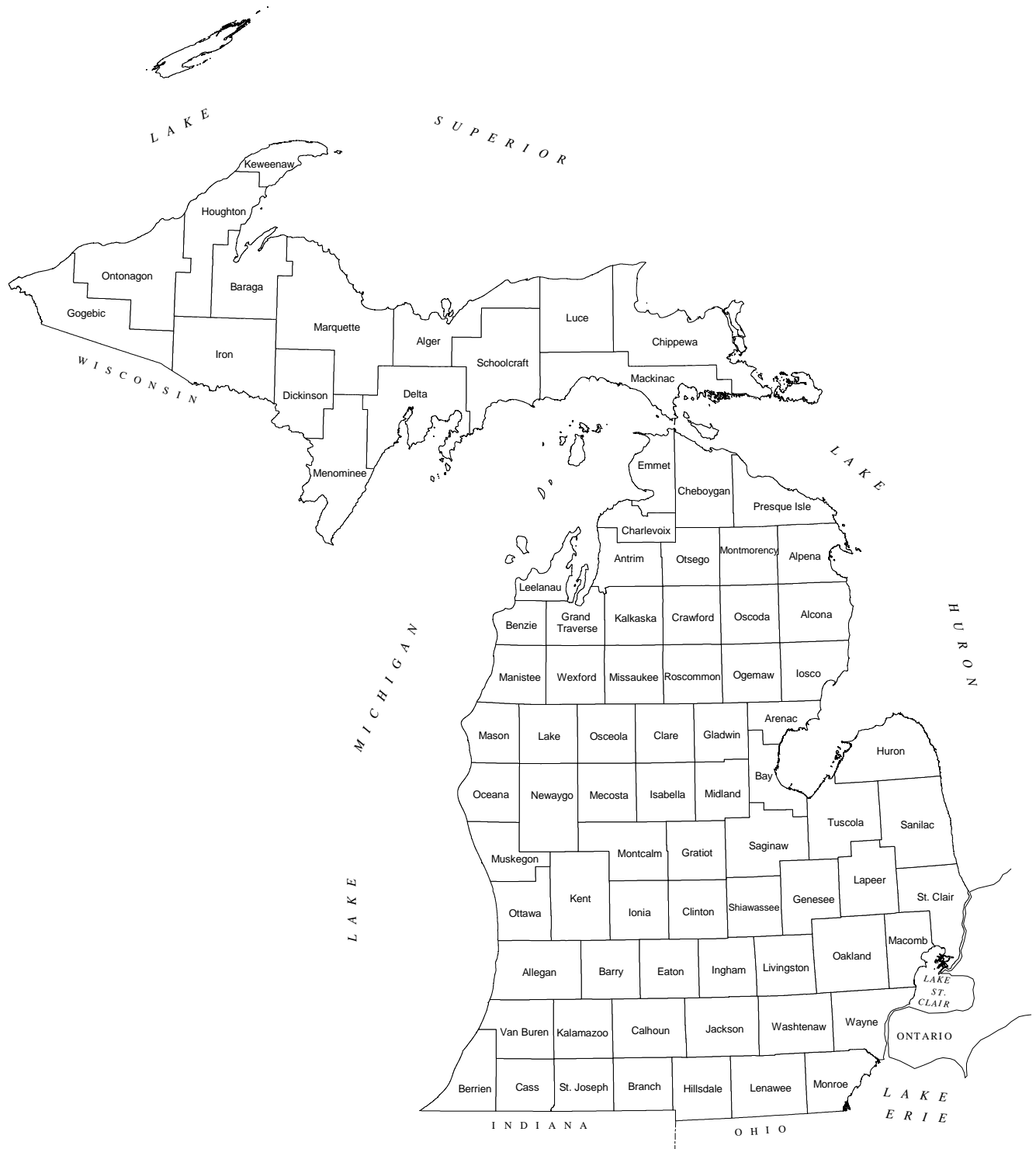
County	Number of Facilities	Water Withdrawn (MGD)			Total
		Great Lakes	Surface Water	Ground Water	
Alcona	11	0.00	0.04	0.64	0.68
Alger	8	5.54	0.00	0.71	6.25
Allegan	156	0.00	6.38	12.75	19.13
Alpena	14	116.86	5.78	1.08	123.72
Antrim	33	0.00	0.33	3.51	3.84
Arenac	21	36.47	0.15	0.68	37.30
Baraga	7	1.36	0.05	0.02	1.43
Barry	39	0.00	0.51	2.14	2.65
Bay	69	583.24	3.45	0.24	586.93
Benzie	22	0.00	0.01	1.40	1.41
Berrien	177	1,654.52	4.71	9.47	1,668.70
Branch	116	0.00	7.00	12.12	19.12
Calhoun	84	0.00	3.94	25.33	29.27
Cass	84	0.00	1.79	9.95	11.74
Charlevoix	29	49.21	0.20	11.45	60.86
Cheboygan	15	0.00	0.14	1.37	1.51
Chippewa	11	2.73	0.07	1.18	3.98
Clare	9	0.00	0.12	1.34	1.46
Clinton	43	0.00	0.39	3.48	3.87
Crawford	12	0.00	0.04	1.56	1.60
Delta	23	71.41	1.11	0.44	72.96
Dickinson	17	0.00	19.44	3.15	22.59
Eaton	31	0.00	1.58	3.64	5.22
Emmet	40	0.05	0.00	4.48	4.53
Genesee	88	0.00	1.51	7.14	8.65
Gladwin	10	0.00	0.00	0.57	0.57
Gogebic	12	0.00	0.00	2.15	2.15
Grand Traverse	75	4.78	0.34	3.63	8.75
Gratiot	32	0.00	1.88	3.28	5.16
Hillsdale	38	0.00	1.09	4.38	5.47
Houghton	23	0.00	0.00	3.48	3.48
Huron	45	26.86	0.19	1.94	28.99
Ingham	52	0.00	90.80	33.33	124.13

County	Number of Facilities	Water Withdrawn (MGD)			Total
		Great Lakes	Surface Water	Ground Water	
Ionia	39	0.00	0.52	6.28	6.80
Iosco	18	1.21	0.31	0.48	2.00
Iron	23	0.00	0.45	2.37	2.82
Isabella	30	0.00	0.37	3.72	4.09
Jackson	78	0.00	0.93	13.73	14.66
Kalamazoo	120	0.00	17.82	70.08	87.90
Kalkaska	8	0.00	0.34	2.84	3.18
Kent	149	49.38	3.44	14.98	67.80
Keweenaw	4	0.01	0.00	0.04	0.05
Lake	4	0.00	0.00	0.21	0.21
Lapeer	36	0.00	0.95	0.73	1.68
Leelanau	56	0.04	0.06	2.13	2.23
Lenawee	62	0.00	4.00	3.61	7.61
Livingston	77	0.00	0.16	7.13	7.29
Luce	8	0.00	0.00	0.73	0.73
Mackinac	9	1.41	0.02	0.12	1.55
Macomb	63	4.40	2.27	1.81	8.48
Manistee	44	33.99	0.51	4.11	38.61
Marquette	35	256.15	15.53	2.98	274.66
Mason	37	13.71	0.47	1.90	16.08
Mecosta	30	0.00	1.86	3.31	5.17
Menominee	9	0.97	3.67	0.24	4.88
Midland	12	0.00	5.08	0.50	5.58
Missaukee	21	0.00	0.15	2.15	2.30
Monroe	45	1,795.65	4.99	9.76	1,810.40
Montcalm	102	0.00	4.91	28.79	33.70
Montmorency	6	0.00	0.18	0.32	0.50
Muskegon	80	261.19	5.69	8.38	275.26
Newaygo	40	0.00	0.75	3.52	4.27
Oakland	191	0.00	1.96	25.64	27.60
Oceana	39	0.00	0.78	2.83	3.61
Ogemaw	12	0.00	0.11	0.59	0.70
Ontonagon	9	15.27	0.00	0.10	15.37
Osceola	22	0.00	0.19	3.69	3.88
Oscoda	9	0.00	0.31	0.09	0.40

County	Number of Facilities	Water Withdrawn (MGD)			Total
		Great Lakes	Surface Water	Ground Water	
Otsego	24	0.00	0.05	2.19	2.24
Ottawa	187	756.75	40.46	7.41	804.62
Presque Isle	26	4.63	1.42	3.02	9.07
Roscommon	22	0.00	0.05	0.61	0.66
Saginaw	51	11.17	1.63	1.47	14.27
Saint Clair	103	1,704.67	0.32	0.63	1,705.62
Saint Joseph	234	0.00	17.24	43.62	60.86
Sanilac	41	0.20	0.40	4.28	4.88
Schoolcraft	6	5.03	6.01	0.03	11.07
Shiawassee	37	0.00	0.54	4.76	5.30
Tuscola	45	2.81	0.03	4.32	7.16
Van Buren	138	110.63	3.95	9.48	124.06
Washtenaw	82	0.00	20.06	9.09	29.15
Wayne	133	1,828.44	5.00	0.68	1,834.12
Wexford	22	0.00	1.07	5.14	6.21
<b>Total</b>	<b>4,124</b>	<b>9,410.74</b>	<b>330.05</b>	<b>498.65</b>	<b>10,239.44</b>

\* 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: 1997 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	1.39	1.39
04020101	10	2.25	0.00	0.71	2.96
04020102	8	13.02	0.00	0.16	13.18
04020103	27	0.01	0.00	3.51	3.52
04020104	2	0.00	0.03	0.03	0.06
04020105	23	257.53	0.09	1.51	259.13
04020201	11	5.54	0.03	0.69	6.26
04020202	7	0.00	0.03	0.59	0.62
04020203	2	0.00	0.00	0.11	0.11
04030106	19	0.00	0.00	2.28	2.28
04030107	5	0.00	0.45	0.27	0.72
04030108	23	0.00	23.08	3.28	26.36
04030109	4	0.97	0.03	0.11	1.11
04030110	15	0.00	16.01	1.38	17.39
04030111	17	71.41	0.50	0.39	72.30
04030112	2	0.00	0.00	0.03	0.03
04040001	20	1,644.11	1.66	0.31	1,646.08
04050001	780	8.35	37.28	100.55	146.18
04050002	179	869.42	3.30	6.44	879.16
04050003	289	0.00	23.77	95.02	118.79
04050004	153	0.00	92.90	51.38	144.28
04050005	65	0.00	0.91	5.67	6.58
04050006	312	49.56	45.80	43.74	139.10
04050007	65	0.00	1.13	4.55	5.68
04060101	132	23.10	1.45	8.43	32.98
04060102	170	251.61	9.32	24.69	285.62
04060103	55	33.99	1.75	7.98	43.72
04060104	69	0.04	0.20	3.46	3.70
04060105	190	54.03	0.68	25.24	79.95
04060106	8	0.00	6.04	0.10	6.14
04060107	3	5.03	0.00	0.07	5.10
04070001	10	2.73	0.10	1.06	3.89
04070002	5	1.40	0.00	0.03	1.43

Hydrologic Basin Code	Number of Facilities	Water Withdrawn ((MGD))			
		Great Lakes	Surface Water	Ground Water	Total
04070003	29	6.43	1.13	2.29	9.85
04070004	27	0.00	0.13	1.90	2.03
04070005	4	0.00	0.05	0.47	0.52
04070006	25	115.06	6.31	1.86	123.23
04070007	46	0.00	0.77	3.48	4.25
04080101	40	37.68	0.27	1.09	39.04
04080102	18	0.21	0.64	0.39	1.24
04080103	80	3.34	1.72	3.82	8.88
04080104	77	180.01	0.07	0.58	180.66
04080201	34	0.00	5.11	2.21	7.32
04080202	54	0.00	2.25	7.44	9.69
04080203	102	0.00	0.95	9.51	10.46
04080204	104	0.00	1.92	6.40	8.32
04080205	40	0.27	0.38	4.03	4.68
04080206	53	593.96	2.24	0.50	596.70
04090001	74	1,549.38	1.19	3.66	1,554.23
04090002	16	4.47	0.22	0.35	5.04
04090003	140	8.12	2.84	17.31	28.27
04090004	159	1,821.87	4.61	2.34	1,828.82
04090005	177	0.14	21.18	16.25	37.57
04100001	34	1,787.08	1.99	2.43	1,791.50
04100002	90	8.62	7.48	14.30	30.40
04100003	7	0.00	0.03	0.10	0.13
04100006	11	0.00	0.03	0.78	0.81
Total	4,124	9,410.74	330.05	498.65	10,239.44

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# Index Map of Michigan Hydrologic Basins

