

Table 1: 2000 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County	Number of Facilities	Water Withdrawn (MGD)			Total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	0.05	0.56	0.61
Alger	9	5.38	0.00	0.95	6.33
Allegan	159	0.00	4.54	12.52	17.06
Alpena	14	120.43	6.56	0.96	127.95
Antrim	33	0.00	0.11	3.15	3.26
Arenac	21	36.47	0.10	0.58	37.15
Baraga	7	1.60	0.05	0.02	1.67
Barry	39	0.00	0.36	2.15	2.51
Bay	69	673.54	2.86	0.27	676.67
Benzie	24	0.00	0.01	1.50	1.51
Berrien	178	1,119.61	5.14	8.86	1,133.61
Branch	120	0.00	4.93	10.07	15.00
Calhoun	85	0.00	4.74	23.21	27.95
Cass	84	0.00	1.56	9.27	10.83
Charlevoix	32	32.17	0.24	11.55	43.96
Cheboygan	16	0.00	0.31	1.87	2.18
Chippewa	11	2.94	0.00	1.08	4.02
Clare	10	0.00	0.64	1.25	1.89
Clinton	44	0.00	0.23	3.86	4.09
Crawford	13	0.00	0.08	1.66	1.74
Delta	24	61.72	0.66	0.65	63.03
Dickinson	17	0.00	18.01	3.29	21.30
Eaton	32	0.00	1.47	3.79	5.26
Emmet	41	0.00	0.00	4.51	4.51
Genesee	93	0.00	1.29	8.17	9.46
Gladwin	11	0.00	0.02	0.51	0.53
Gogebic	12	0.00	0.00	2.42	2.42
Grand Traverse	72	4.85	0.22	3.33	8.40
Gratiot	34	0.00	1.12	2.80	3.92
Hillsdale	40	0.00	1.13	4.91	6.04
Houghton	22	0.00	0.03	4.25	4.28
Huron	45	77.47	0.09	2.06	79.62
Ingham	55	0.00	209.78	35.71	245.49

County	Number of Facilities	Water Withdrawn (MGD)			
		Great Lakes	Surface Water	Ground Water	Total
Ionia	41	0.00	0.37	5.86	6.23
Iosco	21	1.29	0.19	0.62	2.10
Iron	23	0.00	0.30	2.34	2.64
Isabella	32	0.00	0.29	3.92	4.21
Jackson	82	0.00	0.90	14.59	15.49
Kalamazoo	124	0.02	17.36	63.19	80.57
Kalkaska	10	0.00	0.25	2.36	2.61
Kent	157	44.09	2.72	13.39	60.20
Keweenaw	5	0.02	0.00	0.05	0.07
Lake	5	0.00	0.03	0.31	0.34
Lapeer	38	0.00	0.74	0.74	1.48
Leelanau	59	0.00	0.10	1.80	1.90
Lenawee	62	0.00	3.54	3.91	7.45
Livingston	80	0.00	0.37	7.29	7.66
Luce	8	0.00	0.00	0.82	0.82
Mackinac	9	9.41	0.01	0.14	9.56
Macomb	66	4.01	1.73	2.11	7.85
Manistee	44	19.88	18.65	3.32	41.85
Marquette	35	271.85	17.43	3.12	292.40
Mason	38	19.99	0.33	1.15	21.47
Mecosta	31	0.00	1.74	2.69	4.43
Menominee	11	1.06	2.61	0.24	3.91
Midland	13	0.00	5.74	0.31	6.05
Missaukee	21	0.00	0.09	1.62	1.71
Monroe	47	1,708.89	4.44	16.79	1,730.12
Montcalm	103	0.00	3.81	22.12	25.93
Montmorency	6	0.00	0.19	0.25	0.44
Muskegon	80	303.61	6.01	7.87	317.49
Newaygo	39	0.00	0.46	3.37	3.83
Oakland	205	0.00	1.69	27.85	29.54
Oceana	39	0.00	0.56	2.91	3.47
Ogemaw	13	0.00	0.11	0.55	0.66
Ontonagon	9	19.23	0.00	0.11	19.34
Osceola	23	0.00	0.14	3.39	3.53
Oscoda	9	0.00	0.24	0.34	0.58

County	Number of Facilities	Water Withdrawn (MGD)			Total
		Great Lakes	Surface Water	Ground Water	
Otsego	25	0.00	0.05	2.22	2.27
Ottawa	189	675.94	43.44	6.81	726.19
Presque Isle	26	4.22	1.22	2.42	7.86
Roscommon	24	0.00	0.01	0.62	0.63
Saginaw	56	11.91	1.97	1.02	14.90
Saint Clair	103	1,711.64	0.16	0.69	1,712.49
Saint Joseph	235	0.00	14.11	37.14	51.25
Sanilac	43	0.18	0.41	4.08	4.67
Schoolcraft	6	5.04	5.97	0.03	11.04
Shiawassee	36	0.00	0.49	3.64	4.13
Tuscola	46	2.09	0.07	3.62	5.78
Van Buren	142	133.91	1.94	7.81	143.66
Washtenaw	85	0.00	17.47	9.41	26.88
Wayne	139	1,723.99	2.59	0.65	1,727.23
Wexford	23	0.00	0.12	6.68	6.80
Total	4,243	8,808.45	449.49	480.02	9,737.96

* 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: 2000 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	1.50	1.50
04020101	10	12.18	0.00	0.86	13.04
04020102	7	7.05	0.00	0.16	7.21
04020103	28	0.02	0.03	4.32	4.37
04020104	2	0.00	0.02	0.03	0.05
04020105	23	273.45	0.01	1.70	275.16
04020201	12	5.38	0.02	0.94	6.34
04020202	7	0.00	0.02	0.71	0.73
04020203	2	0.00	0.00	0.11	0.11
04030106	19	0.00	0.00	2.28	2.28
04030107	5	0.00	0.30	0.21	0.51
04030108	23	0.00	20.59	3.41	24.00
04030109	7	1.06	0.03	0.11	1.20
04030110	15	0.00	17.69	1.29	18.98
04030111	17	61.72	0.35	0.61	62.68
04030112	2	0.00	0.00	0.09	0.09
04040001	20	1,109.98	1.52	0.28	1,111.78
04050001	788	7.66	29.66	86.05	123.37
04050002	184	811.48	2.11	4.62	818.21
04050003	299	0.02	23.62	89.87	113.51
04050004	161	0.00	211.91	53.37	265.28
04050005	66	0.00	0.61	5.20	5.81
04050006	317	44.60	47.47	37.49	129.56
04050007	67	0.00	0.98	4.62	5.60
04060101	133	28.69	0.96	7.76	37.41
04060102	172	294.75	9.17	21.64	325.56
04060103	58	19.88	18.91	7.94	46.73
04060104	74	0.00	0.19	3.31	3.50
04060105	194	37.02	0.43	24.77	62.22
04060106	8	0.00	5.99	0.09	6.08
04060107	3	5.04	0.00	0.09	5.13
04070001	10	2.94	0.02	0.97	3.93
04070002	5	9.40	0.00	0.03	9.43

Hydrologic Basin Code	Number of Facilities	Water Withdrawn ((MGD))			
		Great Lakes	Surface Water	Ground Water	Total
04070003	29	6.75	1.01	2.02	9.78
04070004	29	0.00	0.26	2.25	2.51
04070005	4	0.00	0.04	0.29	0.33
04070006	25	117.89	7.03	1.62	126.54
04070007	47	0.00	0.55	3.95	4.50
04080101	44	37.75	0.28	0.98	39.01
04080102	19	0.15	0.33	0.33	0.81
04080103	80	2.50	1.23	3.29	7.02
04080104	76	233.30	0.05	0.43	233.78
04080201	38	0.00	6.35	1.93	8.28
04080202	57	0.00	1.47	6.85	8.32
04080203	105	0.00	0.89	10.98	11.87
04080204	112	0.00	1.57	6.39	7.96
04080205	44	0.15	0.45	3.91	4.51
04080206	55	685.15	2.87	0.25	688.27
04090001	75	1,553.76	0.89	3.70	1,558.35
04090002	17	5.88	0.20	0.31	6.39
04090003	147	6.96	2.49	17.98	27.43
04090004	166	1,716.90	2.72	2.22	1,721.84
04090005	187	0.09	17.87	18.55	36.51
04100001	37	1,700.19	2.18	8.07	1,710.44
04100002	91	8.71	6.01	16.47	31.19
04100003	7	0.00	0.02	0.10	0.12
04100006	11	0.00	0.12	0.72	0.84
Total	4,243	8,808.45	449.49	480.02	9,737.96

* 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

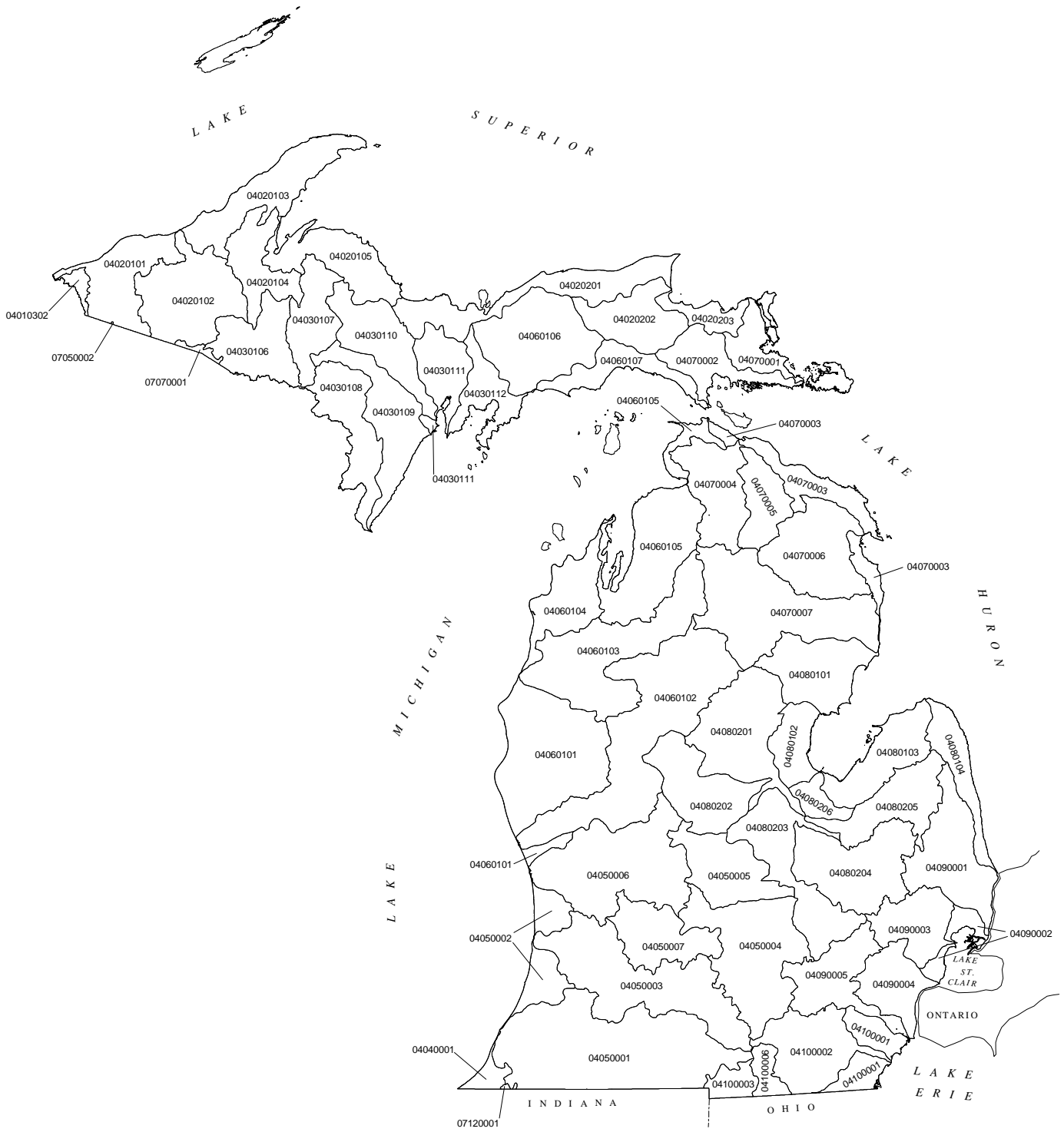


Table 1: 2001 Water Withdrawals for Major Water Uses in Michigan, by County*

County	Number of Facilities	Water Withdrawn (MGD)			Total
		Great Lakes	Surface Water	Ground Water	
Alcona	11	0.00	0.06	0.65	0.71
Alger	9	5.50	0.00	0.91	6.41
Allegan	160	0.00	5.44	9.76	15.20
Alpena	14	119.45	0.10	1.00	120.55
Antrim	33	0.00	0.13	3.83	3.96
Arenac	22	38.19	0.14	0.66	38.99
Baraga	7	3.24	0.02	0.06	3.32
Barry	41	0.00	0.47	2.40	2.87
Bay	69	633.84	4.52	0.37	638.73
Benzie	25	0.00	0.02	1.74	1.76
Berrien	174	2,055.28	3.88	9.63	2,068.79
Branch	120	0.00	5.69	11.20	16.89
Calhoun	86	0.00	5.18	25.09	30.27
Cass	85	0.00	1.61	9.22	10.83
Charlevoix	32	40.77	0.21	14.21	55.19
Cheboygan	14	0.00	0.38	2.16	2.54
Chippewa	11	2.79	0.00	1.09	3.88
Clare	9	0.00	0.14	1.38	1.52
Clinton	42	0.00	0.55	3.18	3.73
Crawford	13	0.00	0.08	1.63	1.71
Delta	25	22.58	0.88	0.68	24.14
Dickinson	17	0.00	17.98	3.40	21.38
Eaton	32	0.00	1.54	4.01	5.55
Emmet	46	0.00	0.00	4.82	4.82
Genesee	90	0.00	1.80	8.77	10.57
Gladwin	11	0.00	0.00	0.52	0.52
Gogebic	12	0.00	0.00	2.22	2.22
Grand Traverse	74	5.34	0.27	4.61	10.22
Gratiot	34	0.00	1.28	3.26	4.54
Hillsdale	40	0.00	1.47	5.18	6.65
Houghton	21	0.00	0.03	3.67	3.70
Huron	48	54.21	0.28	2.14	56.63
Ingham	55	0.00	206.34	38.65	244.99

County	Number of Facilities	Water Withdrawn (MGD)			
		Great Lakes	Surface Water	Ground Water	Total
Ionia	42	0.00	0.50	6.45	6.95
Iosco	21	1.24	0.35	0.65	2.24
Iron	23	0.00	0.43	2.41	2.84
Isabella	31	0.00	0.33	3.98	4.31
Jackson	82	0.00	1.04	14.97	16.01
Kalamazoo	121	0.00	8.94	64.83	73.77
Kalkaska	10	0.00	0.38	3.10	3.48
Kent	158	50.81	2.62	11.86	65.29
Keweenaw	6	0.01	0.00	0.06	0.07
Lake	6	0.00	0.00	0.30	0.30
Lapeer	40	0.00	1.26	0.92	2.18
Leelanau	62	0.01	0.17	2.87	3.05
Lenawee	64	0.00	4.18	4.05	8.23
Livingston	86	0.00	0.41	8.42	8.83
Luce	8	0.00	0.03	0.80	0.83
Mackinac	10	8.34	0.02	0.15	8.51
Macomb	65	4.20	2.51	2.01	8.72
Manistee	45	18.65	19.08	4.20	41.93
Marquette	33	269.81	14.62	2.87	287.30
Mason	39	18.19	0.56	1.94	20.69
Mecosta	32	0.00	0.54	4.99	5.53
Menominee	11	1.15	2.87	0.24	4.26
Midland	15	0.07	4.04	0.32	4.43
Missaukee	21	0.00	0.18	2.25	2.43
Monroe	45	1,723.26	5.00	15.82	1,744.08
Montcalm	103	0.00	4.99	29.70	34.69
Montmorency	6	0.00	0.21	0.28	0.49
Muskegon	80	309.09	5.99	8.55	323.63
Newaygo	39	0.00	0.72	2.79	3.51
Oakland	201	0.00	1.87	28.87	30.74
Oceana	40	0.00	0.72	3.09	3.81
Ogemaw	13	0.00	0.12	0.62	0.74
Ontonagon	9	14.45	0.00	0.10	14.55
Osceola	23	0.00	0.21	3.91	4.12
Oscoda	9	0.00	0.16	0.35	0.51

County	Number of Facilities	Water Withdrawn (MGD)			
		Great Lakes	Surface Water	Ground Water	Total
Otsego	29	0.00	0.08	2.44	2.52
Ottawa	187	726.33	41.07	7.71	775.11
Presque Isle	26	5.10	1.45	3.07	9.62
Roscommon	24	0.00	0.10	0.66	0.76
Saginaw	54	11.93	2.73	1.98	16.64
Saint Clair	104	1,648.03	0.25	1.21	1,649.49
Saint Joseph	235	0.00	14.37	36.15	50.52
Sanilac	42	0.18	0.45	4.54	5.17
Schoolcraft	6	5.46	6.16	0.02	11.64
Shiawassee	36	0.00	0.63	3.48	4.11
Tuscola	46	3.31	0.18	4.41	7.90
Van Buren	143	68.62	1.11	8.73	78.46
Washtenaw	87	0.00	16.92	11.02	27.94
Wayne	138	1,805.88	12.69	1.09	1,819.66
Wexford	22	0.00	0.12	6.03	6.15
Total	4,260	9,675.31	443.85	513.36	10,632.52

* 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

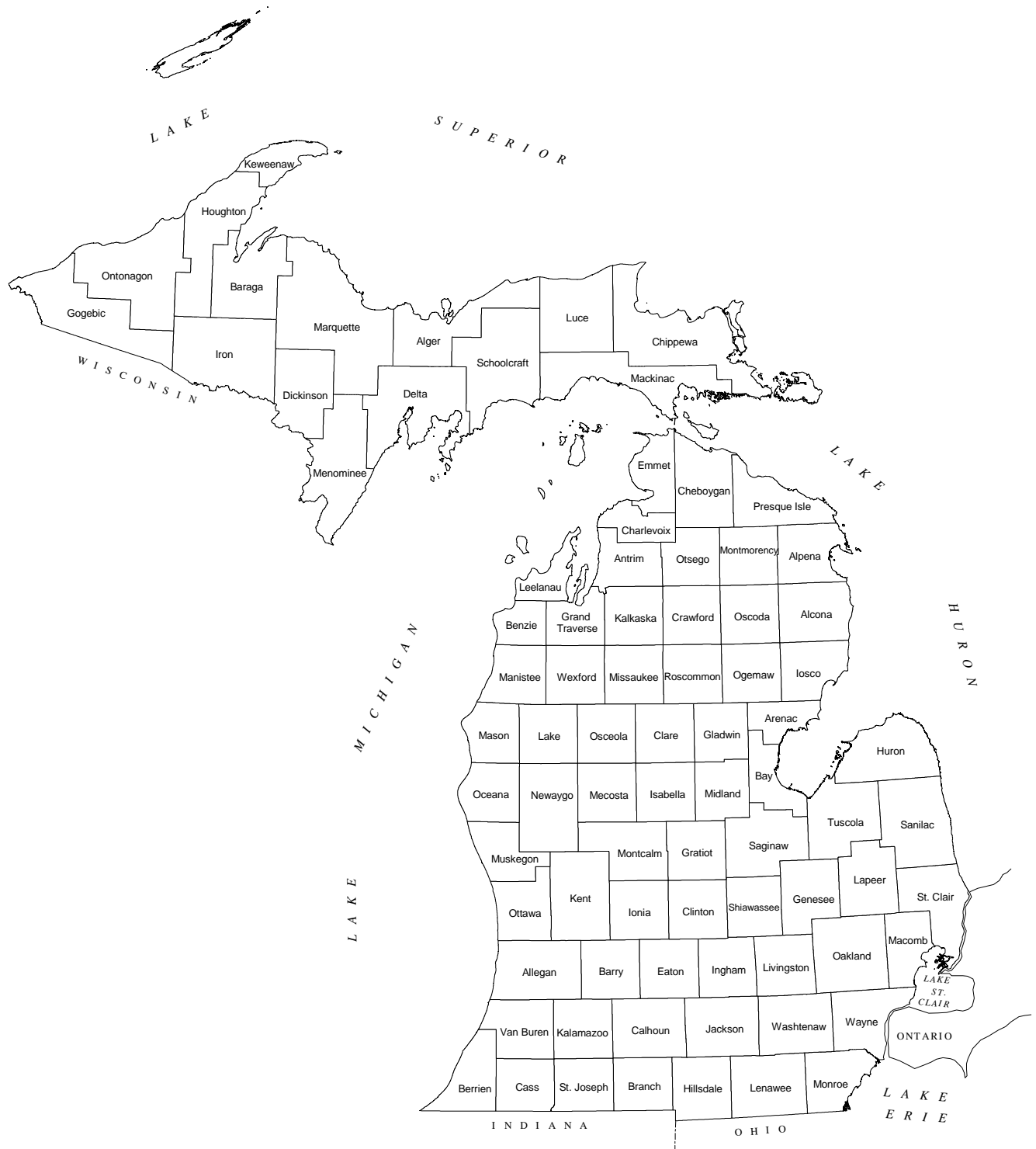


Table 2: 2001 Water Withdrawals for Major Water Uses in Michigan, by Hydrologic Basin*

Hydrologic Basin Code	Number of Facilities	Water Withdrawn ((MGD))			Total
		Great Lakes	Surface Water	Ground Water	
04010302	3	0.00	0.00	1.41	1.41
04020101	10	6.45	0.00	0.76	7.21
04020102	7	8.00	0.00	0.14	8.14
04020103	28	0.01	0.03	3.74	3.78
04020104	2	0.00	0.03	0.02	0.05
04020105	23	273.04	0.04	1.62	274.70
04020201	11	5.50	0.03	0.87	6.40
04020202	7	0.00	0.03	0.70	0.73
04020203	2	0.00	0.00	0.09	0.09
04030106	19	0.00	0.00	2.33	2.33
04030107	5	0.00	0.43	0.25	0.68
04030108	23	0.00	20.84	3.54	24.38
04030109	7	1.15	0.04	0.09	1.28
04030110	14	0.00	15.03	1.15	16.18
04030111	18	22.58	0.37	0.65	23.60
04030112	2	0.00	0.00	0.06	0.06
04040001	19	2,045.36	1.19	0.29	2,046.84
04050001	786	7.96	28.91	89.88	126.75
04050002	185	796.79	3.12	6.20	806.11
04050003	296	0.00	16.74	88.78	105.52
04050004	160	0.00	208.38	56.04	264.42
04050005	67	0.00	1.06	6.04	7.10
04050006	315	51.14	45.53	41.50	138.17
04050007	70	0.00	1.21	5.06	6.27
04060101	137	28.22	1.37	9.34	38.93
04060102	171	298.81	8.46	26.09	333.36
04060103	57	18.65	19.37	8.85	46.87
04060104	80	0.00	0.29	4.68	4.97
04060105	199	46.13	0.48	29.56	76.17
04060106	8	0.00	6.19	0.08	6.27
04060107	3	5.46	0.00	0.09	5.55
04070001	10	2.79	0.03	0.99	3.81
04070002	5	8.33	0.00	0.03	8.36

Hydrologic Basin Code	Number of Facilities	Water Withdrawn ((MGD))			
		Great Lakes	Surface Water	Ground Water	Total
04070003	30	8.02	1.18	2.39	11.59
04070004	32	0.00	0.33	2.47	2.80
04070005	4	0.00	0.05	0.67	0.72
04070006	24	116.52	0.65	2.00	119.17
04070007	49	0.00	0.66	3.79	4.45
04080101	45	39.44	0.36	1.32	41.12
04080102	19	0.23	0.72	0.37	1.32
04080103	81	4.29	2.26	3.83	10.38
04080104	78	210.23	0.10	0.66	210.99
04080201	39	0.07	4.07	2.04	6.18
04080202	56	0.00	1.68	7.35	9.03
04080203	109	0.00	1.18	11.41	12.59
04080204	109	0.00	2.53	7.77	10.30
04080205	44	0.47	0.59	4.52	5.58
04080206	55	645.20	3.62	0.64	649.46
04090001	75	1,489.28	1.35	4.58	1,495.21
04090002	17	6.33	0.19	0.12	6.64
04090003	145	6.87	3.33	21.13	31.33
04090004	165	1,798.07	3.19	2.10	1,803.36
04090005	188	0.64	26.76	18.44	45.84
04100001	37	1,714.69	2.53	7.73	1,724.95
04100002	91	8.59	7.15	16.16	31.90
04100003	7	0.00	0.03	0.10	0.13
04100006	12	0.00	0.14	0.85	0.99
Total	4,260	9,675.31	443.85	513.36	10,632.52

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Index Map of Michigan Hydrologic Basins

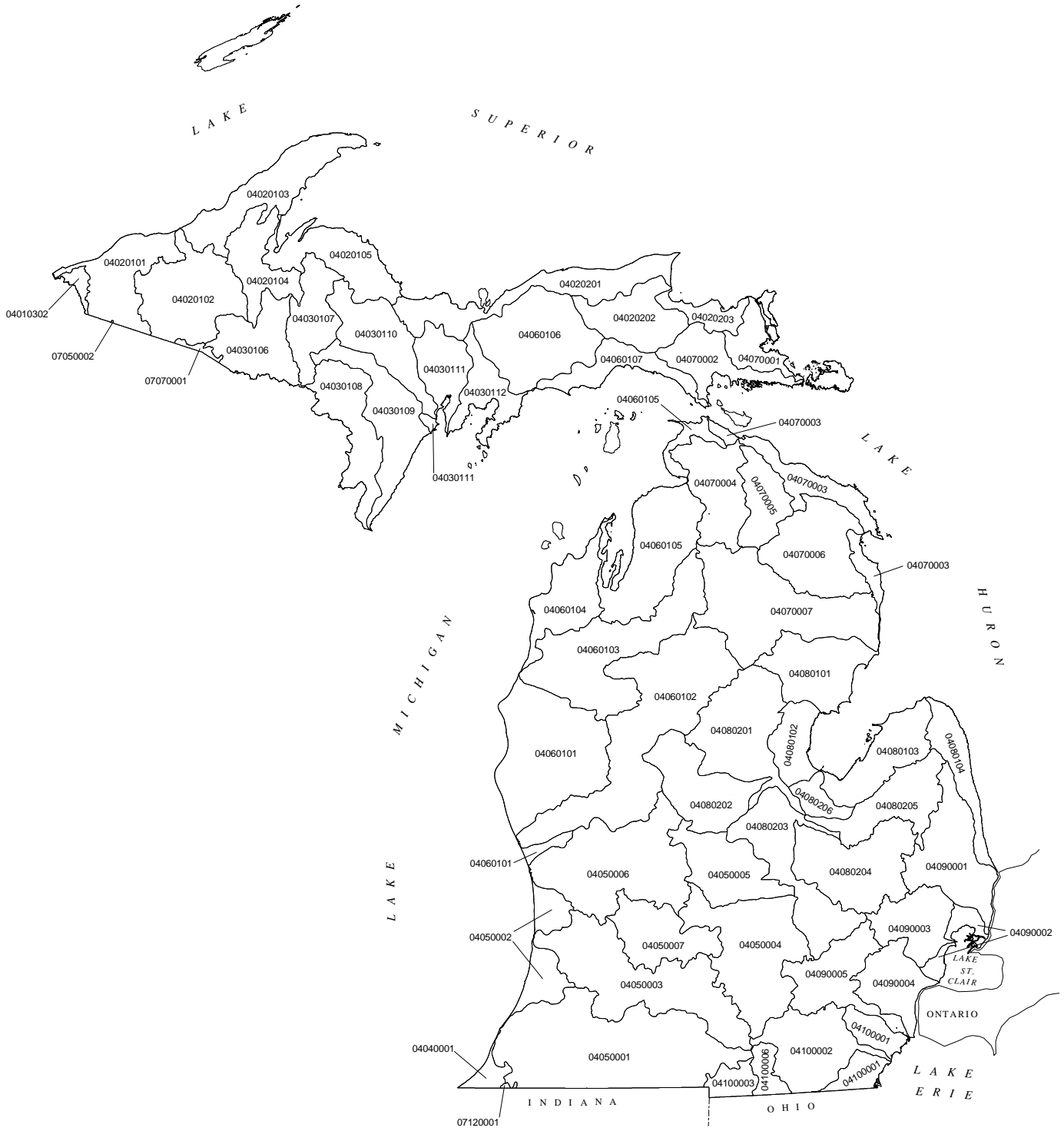


Table 1: 2002 Water Withdrawals for Major Water Uses in Michigan, by County*

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)			Total
		Great Lakes	Surface Water	Ground Water	
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

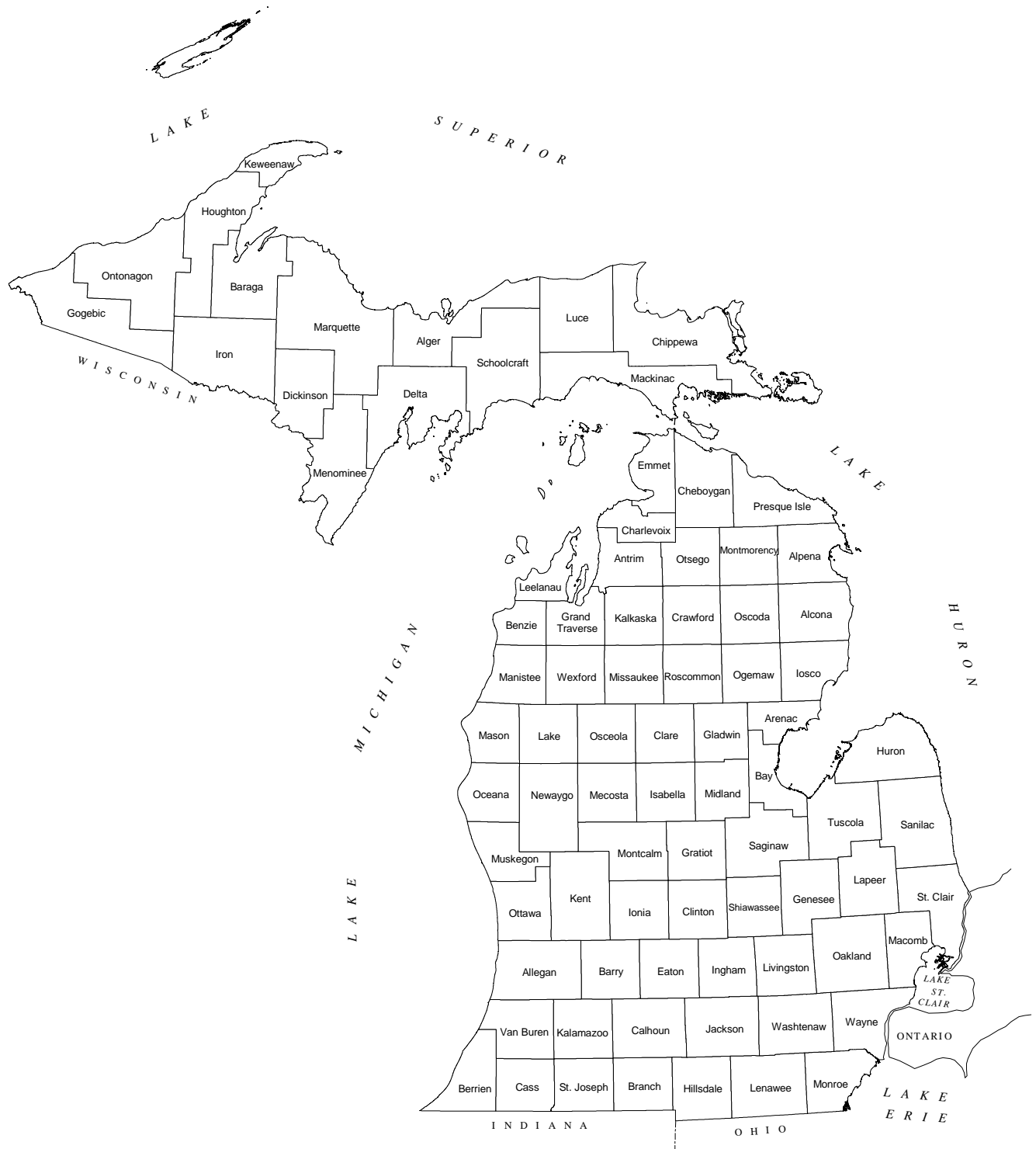


Table 2: 2002 Water Withdrawals for Major Water Uses in Michigan, by Hydrologic Basin*

Hydrologic Basin Code	Number of Facilities	Water Withdrawn ((MGD))			
		Great Lakes	Surface Water	Ground Water	Total
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.

Index Map of Michigan Hydrologic Basins

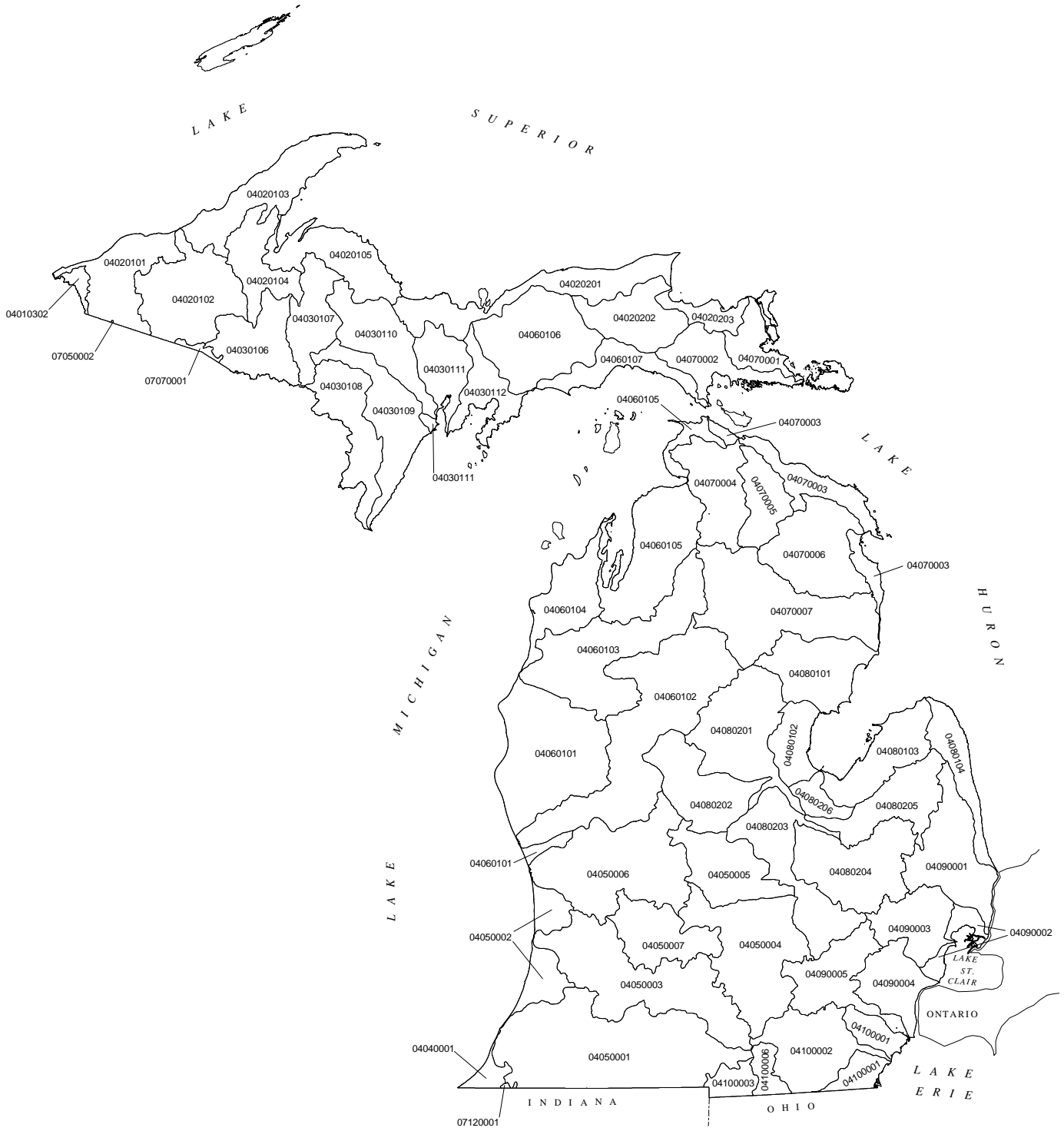


Table 1: 2003 Water Withdrawals for Major Water Uses in Michigan, by County*

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)			
		Great Lakes	Surface Water	Ground Water	Total
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

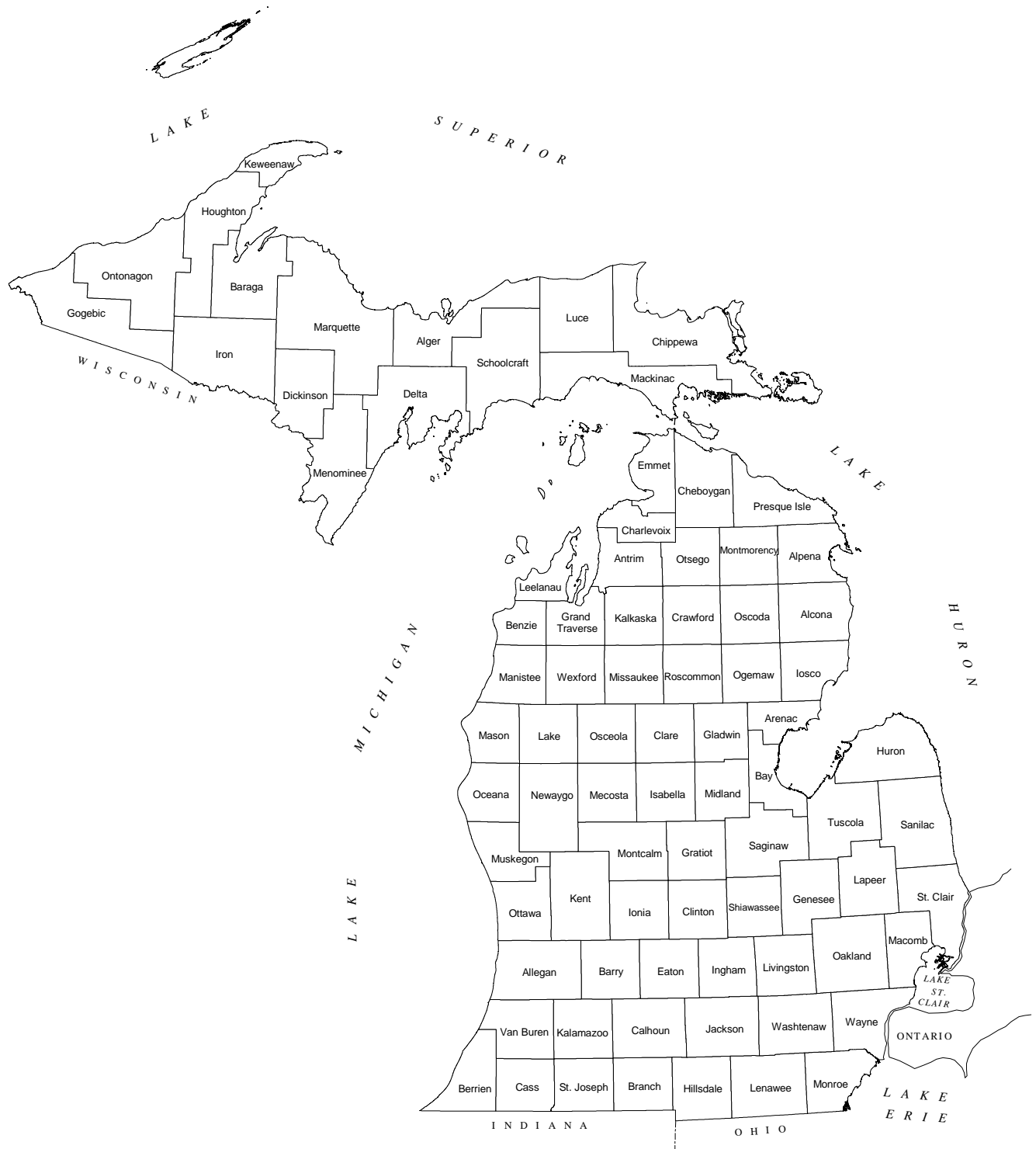


Table 2: 2003 Water Withdrawals for Major Water Uses in Michigan, by Hydrologic Basin*

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

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Index Map of Michigan Hydrologic Basins

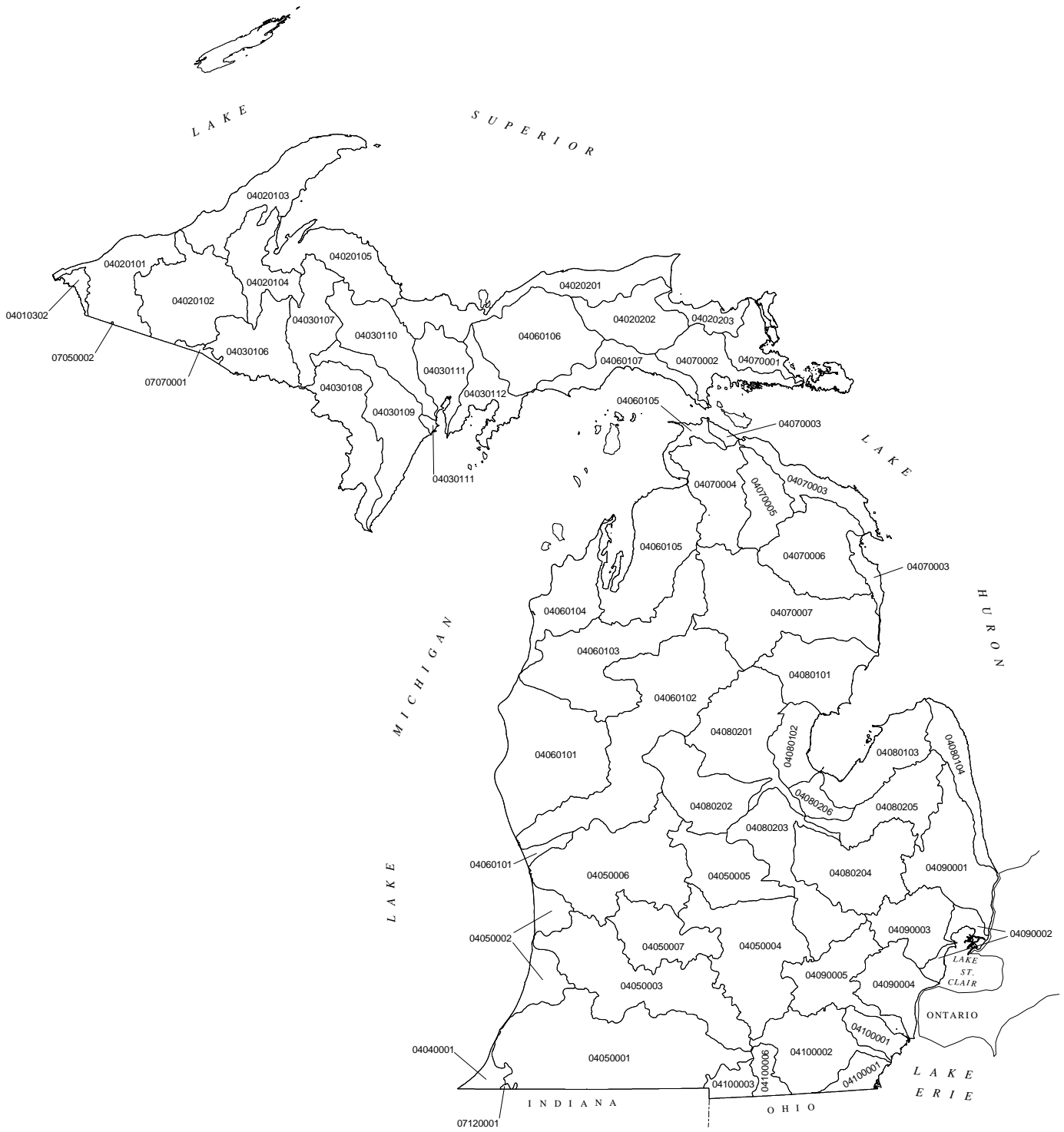


Table 1: 2004 Water Withdrawals for Major Water Uses in Michigan, by County*

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

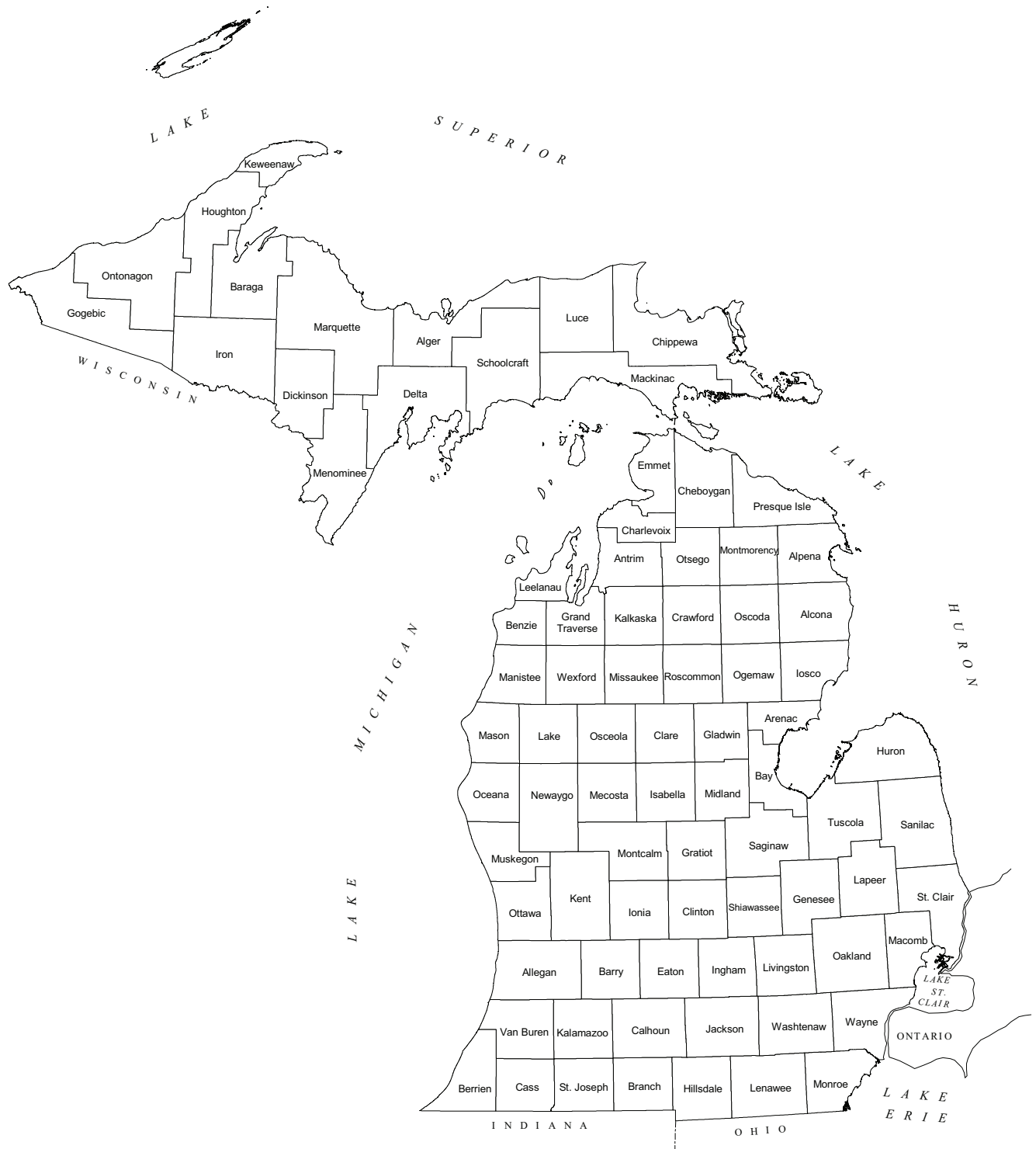


Table 2: 2004 Water Withdrawals for Major Water Uses in Michigan, by Hydrologic Basin*

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

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Index Map of Michigan Hydrologic Basins

