

Table 1: 2001 Water Withdrawals for Self-Supplied Industrial Facilities in Michigan, by County*

| County | Self-Supplied Industries | | Water Withdrawn (MGD) | | | |
|----------------|--------------------------|---------------------|-----------------------|---------------|--------------|-------|
| | Number of Facilities | Number of Employees | Great Lakes | Surface Water | Ground Water | Total |
| Alger | 2 | 688 | 5.50 | 0.00 | 0.24 | 5.73 |
| Allegan | 14 | 4,291 | 0.00 | 0.63 | 3.90 | 4.53 |
| Alpena | 3 | 1,080 | 7.16 | 0.00 | 0.00 | 7.16 |
| Antrim | 2 | 260 | 0.00 | 0.00 | 0.09 | 0.09 |
| Arenac | 1 | 52 | 0.00 | 0.00 | 0.24 | 0.24 |
| Baraga | 1 | 190 | 0.50 | 0.00 | 0.00 | 0.50 |
| Barry | 5 | 956 | 0.00 | 0.00 | 0.19 | 0.19 |
| Bay | 4 | 1,841 | 0.00 | 1.58 | 0.00 | 1.58 |
| Benzie | 4 | 305 | 0.00 | 0.01 | 0.28 | 0.29 |
| Berrien | 17 | 2,455 | 0.00 | 1.15 | 1.64 | 2.79 |
| Branch | 5 | 906 | 0.00 | 0.14 | 1.06 | 1.20 |
| Calhoun | 12 | 5,250 | 0.00 | 3.19 | 5.95 | 9.14 |
| Cass | 4 | 847 | 0.00 | 0.00 | 1.37 | 1.37 |
| Charlevoix | 5 | 1,095 | 5.25 | 0.00 | 12.37 | 17.62 |
| Cheboygan | 1 | 70 | 0.00 | 0.28 | 0.09 | 0.36 |
| Chippewa | 1 | 30 | 0.79 | 0.00 | 0.00 | 0.79 |
| Clinton | 3 | 99 | 0.00 | 0.00 | 0.76 | 0.76 |
| Crawford | 4 | 302 | 0.00 | 0.07 | 0.16 | 0.23 |
| Delta | 4 | 1,350 | 0.04 | 0.24 | 0.12 | 0.40 |
| Dickinson | 1 | 20 | 0.00 | 17.65 | 0.38 | 18.04 |
| Eaton | 1 | 35 | 0.00 | 0.00 | 0.00 | 0.00 |
| Emmet | 2 | 370 | 0.00 | 0.00 | 0.03 | 0.03 |
| Genesee | 9 | 11,482 | 0.00 | 0.00 | 0.15 | 0.15 |
| Gladwin | 2 | 7 | 0.00 | 0.00 | 0.01 | 0.01 |
| Gogebic | 2 | 150 | 0.00 | 0.00 | 0.08 | 0.08 |
| Grand Traverse | 6 | 1,405 | 0.00 | 0.00 | 0.57 | 0.57 |
| Gratiot | 3 | 706 | 0.00 | 0.00 | 0.24 | 0.24 |
| Hillsdale | 3 | 623 | 0.00 | 0.00 | 0.91 | 0.91 |
| Huron | 3 | 260 | 0.00 | 0.00 | 0.05 | 0.05 |
| Ingham | 4 | 9,182 | 0.00 | 0.00 | 0.39 | 0.39 |
| Ionia | 3 | 938 | 0.00 | 0.12 | 0.04 | 0.17 |

| County | Self-Supplied Industries | | Water Withdrawn (MGD) | | | |
|--------------|--------------------------|---------------------|-----------------------|---------------|--------------|-------|
| | Number of Facilities | Number of Employees | Great Lakes | Surface Water | Ground Water | Total |
| Iosco | 2 | 185 | 0.00 | 0.08 | 0.00 | 0.09 |
| Isabella | 1 | 120 | 0.00 | 0.00 | 0.00 | 0.00 |
| Jackson | 15 | 1,229 | 0.00 | 0.05 | 0.82 | 0.87 |
| Kalamazoo | 13 | 10,910 | 0.00 | 6.96 | 31.58 | 38.55 |
| Kalkaska | 1 | 50 | 0.00 | 0.00 | 0.00 | 0.00 |
| Kent | 24 | 8,445 | 0.00 | 0.99 | 0.90 | 1.89 |
| Lapeer | 2 | 255 | 0.00 | 0.00 | 0.03 | 0.03 |
| Leelanau | 6 | 191 | 0.00 | 0.00 | 0.75 | 0.75 |
| Lenawee | 7 | 1,102 | 0.00 | 0.01 | 0.24 | 0.25 |
| Livingston | 10 | 1,945 | 0.00 | 0.00 | 0.17 | 0.17 |
| Luce | 2 | 111 | 0.00 | 0.00 | 0.02 | 0.02 |
| Mackinac | 1 | 125 | 6.96 | 0.00 | 0.00 | 6.96 |
| Macomb | 6 | 434 | 0.00 | 0.16 | 0.19 | 0.35 |
| Manistee | 5 | 918 | 16.19 | 18.43 | 0.63 | 35.25 |
| Marquette | 2 | 1,820 | 0.00 | 14.40 | 0.19 | 14.59 |
| Mason | 7 | 1,674 | 15.91 | 0.00 | 0.29 | 16.20 |
| Mecosta | 1 | 170 | 0.00 | 0.00 | 0.18 | 0.18 |
| Menominee | 3 | 925 | 0.00 | 2.82 | 0.02 | 2.84 |
| Midland | 2 | 4,175 | 0.00 | 3.89 | 0.05 | 3.94 |
| Missaukee | 2 | 186 | 0.00 | 0.00 | 0.00 | 0.00 |
| Monroe | 7 | 640 | 0.00 | 1.67 | 14.33 | 16.00 |
| Montcalm | 1 | 500 | 0.00 | 0.00 | 0.18 | 0.18 |
| Muskegon | 21 | 4,482 | 18.63 | 5.68 | 3.24 | 27.54 |
| Newaygo | 2 | 606 | 0.00 | 0.00 | 0.00 | 0.00 |
| Oakland | 27 | 11,158 | 0.00 | 0.05 | 2.53 | 2.58 |
| Oceana | 4 | 785 | 0.00 | 0.00 | 0.91 | 0.91 |
| Ontonagon | 2 | 1,430 | 14.08 | 0.00 | 0.00 | 14.08 |
| Osceola | 5 | 591 | 0.00 | 0.00 | 0.32 | 0.32 |
| Otsego | 4 | 657 | 0.00 | 0.00 | 0.10 | 0.10 |
| Ottawa | 13 | 3,114 | 9.37 | 1.98 | 0.42 | 11.77 |
| Presque Isle | 2 | 270 | 5.10 | 0.00 | 0.00 | 5.10 |
| Roscommon | 1 | 190 | 0.00 | 0.00 | 0.00 | 0.00 |
| Saginaw | 3 | 1,526 | 0.00 | 1.50 | 0.00 | 1.50 |
| Saint Clair | 4 | 2,713 | 12.22 | 0.00 | 0.00 | 12.22 |

| County | Self-Supplied Industries | | Water Withdrawn (MGD) | | | |
|--------------|--------------------------|---------------------|-----------------------|---------------|--------------|--------|
| | Number of Facilities | Number of Employees | Great Lakes | Surface Water | Ground Water | Total |
| Saint Joseph | 14 | 2,731 | 0.00 | 0.25 | 4.76 | 5.01 |
| Sanilac | 5 | 1,225 | 0.00 | 0.00 | 0.19 | 0.19 |
| Schoolcraft | 2 | 220 | 5.46 | 5.60 | 0.00 | 11.06 |
| Shiawassee | 1 | 60 | 0.00 | 0.00 | 0.10 | 0.10 |
| Tuscola | 2 | 89 | 0.00 | 0.00 | 0.00 | 0.00 |
| Van Buren | 10 | 1,501 | 0.00 | 0.00 | 0.91 | 0.91 |
| Washtenaw | 14 | 5,534 | 0.00 | 1.06 | 1.24 | 2.30 |
| Wayne | 19 | 16,539 | 308.08 | 11.59 | 0.10 | 319.76 |
| Wexford | 4 | 1,243 | 0.00 | 0.00 | 2.81 | 2.81 |
| Total | 410 | 140,019 | 431.23 | 102.21 | 99.51 | 632.95 |

* This report is provided by the Michigan Department of Environmental Quality and was generated using data collected for the water use reporting program.

Index Map of Michigan Counties



Table 2: 2001 Water Withdrawals for Self-Supplied Industrial Facilities in Michigan, by Hydrologic Basin*

| Hydrologic Basin Code | Self-Supplied Industries | | Water Withdrawn (MGD) | | | |
|-----------------------|--------------------------|---------------------|-----------------------|---------------|--------------|-------|
| | Number of Facilities | Number of Employees | Great Lakes | Surface Water | Ground Water | Total |
| 04010302 | 1 | 85 | 0.00 | 0.00 | 0.08 | 0.08 |
| 04020101 | 2 | 1,215 | 6.36 | 0.00 | 0.00 | 6.36 |
| 04020102 | 1 | 280 | 7.72 | 0.00 | 0.00 | 7.72 |
| 04020105 | 1 | 190 | 0.50 | 0.00 | 0.00 | 0.50 |
| 04020201 | 2 | 688 | 5.50 | 0.00 | 0.24 | 5.73 |
| 04020202 | 2 | 111 | 0.00 | 0.00 | 0.02 | 0.02 |
| 04030108 | 2 | 395 | 0.00 | 20.48 | 0.38 | 20.86 |
| 04030109 | 2 | 550 | 0.00 | 0.00 | 0.02 | 0.02 |
| 04030110 | 2 | 1,820 | 0.00 | 14.40 | 0.19 | 14.59 |
| 04030111 | 4 | 1,350 | 0.04 | 0.24 | 0.12 | 0.40 |
| 04040001 | 1 | 43 | 0.00 | 1.15 | 0.00 | 1.15 |
| 04050001 | 53 | 9,079 | 0.00 | 0.75 | 9.97 | 10.71 |
| 04050002 | 8 | 3,648 | 9.36 | 0.26 | 0.28 | 9.90 |
| 04050003 | 33 | 18,079 | 0.00 | 10.42 | 41.23 | 51.65 |
| 04050004 | 20 | 10,416 | 0.00 | 0.05 | 1.21 | 1.26 |
| 04050005 | 2 | 94 | 0.00 | 0.00 | 0.75 | 0.75 |
| 04050006 | 33 | 6,165 | 0.01 | 2.56 | 1.37 | 3.94 |
| 04050007 | 11 | 6,314 | 0.00 | 0.27 | 0.29 | 0.56 |
| 04060101 | 17 | 2,823 | 15.91 | 0.00 | 1.87 | 17.78 |
| 04060102 | 25 | 6,580 | 18.63 | 5.68 | 4.17 | 28.47 |
| 04060103 | 6 | 943 | 16.19 | 18.43 | 2.09 | 36.72 |
| 04060104 | 10 | 835 | 0.00 | 0.01 | 1.26 | 1.27 |
| 04060105 | 16 | 2,841 | 5.25 | 0.00 | 12.84 | 18.08 |
| 04060106 | 1 | 155 | 0.00 | 5.60 | 0.00 | 5.60 |
| 04060107 | 1 | 65 | 5.46 | 0.00 | 0.00 | 5.46 |
| 04070001 | 1 | 30 | 0.79 | 0.00 | 0.00 | 0.79 |
| 04070002 | 1 | 125 | 6.96 | 0.00 | 0.00 | 6.96 |
| 04070003 | 3 | 520 | 8.02 | 0.00 | 0.01 | 8.03 |
| 04070004 | 3 | 162 | 0.00 | 0.28 | 0.09 | 0.37 |
| 04070006 | 2 | 830 | 4.23 | 0.00 | 0.00 | 4.23 |
| 04070007 | 7 | 1,057 | 0.00 | 0.07 | 0.25 | 0.32 |
| 04080101 | 2 | 185 | 0.00 | 0.08 | 0.00 | 0.09 |

| Hydrologic Basin Code | Self-Supplied Industries | | Water Withdrawn (MGD) | | | |
|-----------------------|--------------------------|---------------------|-----------------------|---------------|--------------|--------|
| | Number of Facilities | Number of Employees | Great Lakes | Surface Water | Ground Water | Total |
| 04080102 | 1 | 52 | 0.00 | 0.00 | 0.24 | 0.24 |
| 04080103 | 3 | 260 | 0.00 | 0.00 | 0.05 | 0.05 |
| 04080104 | 1 | 400 | 0.00 | 0.00 | 0.05 | 0.05 |
| 04080201 | 4 | 4,182 | 0.00 | 3.89 | 0.06 | 3.95 |
| 04080202 | 3 | 890 | 0.00 | 0.00 | 0.42 | 0.42 |
| 04080203 | 8 | 1,481 | 0.00 | 0.00 | 0.17 | 0.17 |
| 04080204 | 10 | 11,247 | 0.00 | 0.00 | 0.18 | 0.18 |
| 04080205 | 4 | 284 | 0.00 | 0.00 | 0.07 | 0.07 |
| 04080206 | 7 | 3,367 | 0.00 | 3.08 | 0.00 | 3.08 |
| 04090001 | 6 | 3,343 | 12.22 | 0.00 | 0.07 | 12.29 |
| 04090003 | 14 | 1,857 | 0.00 | 0.16 | 1.54 | 1.70 |
| 04090004 | 27 | 16,950 | 307.61 | 1.86 | 0.19 | 309.66 |
| 04090005 | 31 | 15,978 | 0.47 | 10.83 | 2.42 | 13.72 |
| 04100001 | 4 | 65 | 0.00 | 0.37 | 6.52 | 6.89 |
| 04100002 | 11 | 1,698 | 0.00 | 1.30 | 8.80 | 10.10 |
| 04100003 | 1 | 292 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 410 | 140,019 | 431.23 | 102.21 | 99.51 | 632.95 |

* This report is provided by the Michigan Department of Environmental Quality and was generated using data collected for the water use reporting program.

Hydrologic Basins in Michigan: U.S. Geological Survey

| | | | | | |
|----------|-----------------------|----------|----------------------|----------|--------------------|
| 04010302 | Bad-Montreal | 04050007 | Thornapple | 04080104 | Birch-Willow |
| 04020101 | Black-Presque Isle | 04060101 | Pere Marquette-White | 04080201 | Tittabawassee |
| 04020102 | Ontonagon | 04060102 | Muskegon | 04080202 | Pine |
| 04020105 | Dead-Kelsey | 04060103 | Manistee | 04080203 | Shiawassee |
| 04020201 | Betsy-Chocolay | 04060104 | Betsie-Platte | 04080204 | Flint |
| 04020202 | Tahquamenon | 04060105 | Boardman-Charlevoix | 04080205 | Cass |
| 04030108 | Menominee | 04060106 | Manistique | 04080206 | Saginaw |
| 04030109 | Cedar-Ford | 04060107 | Brevoort-Millecoquin | 04090001 | Saint Clair |
| 04030110 | Esanaba | 04070001 | Saint Marys | 04090003 | Clinton |
| 04030111 | Tacoosh-Whitefish | 04070002 | Carp-Pine | 04090004 | Detroit |
| 04040001 | Little Calumet-Galien | 04070003 | Lone Lake-Ocqueoc | 04090005 | Huron |
| 04050001 | Saint Joseph | 04070004 | Cheboygan | 04100001 | Ottawa-Stony |
| 04050002 | Black-Macatawa | 04070006 | Thunder Bay | 04100002 | Raisin |
| 04050003 | Kalamazoo | 04070007 | Au Sable | 04100003 | Laird-Saint Joseph |
| 04050004 | Upper Grand | 04080101 | Au Gres-Rifle | | |
| 04050005 | Maple | 04080102 | Kawkawlin-Pine | | |
| 04050006 | Lower Grand | 04080103 | Pigeon-Wiscoggin | | |

Index Map of Michigan Hydrologic Basins

