# 1998 Inventory of Toxic Air Emissions

## Michigan by County

**January 2002**

# Michigan - Statewide Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 14.64 | 7,148.51 | 0.00 | 59.80 | 7,222.95 |
| ACENAPHTHYL | 164.23 | 80,995.00 | 0.00 | 678.00 | 81,837.23 |
| ACETALDEHYDE | 11,271.51 | 0.00 | 1,883,479.58 | 680,241.99 | 2,574,993.09 |
| ACROLEIN | 14.90 | 0.00 | 275,083.41 | 182.85 | 275,281.16 |
| ACRYLAMIDE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ACRYLONITRIL | 2,279.88 | 0.00 | 0.00 | 0.00 | 2,279.88 |
| ANTHRACENE | 141.89 | 9,530.80 | 0.00 | 79.78 | 9,752.48 |
| ANTIMONY | 218.45 | 0.00 | 0.00 | 0.00 | 218.45 |
| ARSENIC | 3,490.86 | 0.64 | 14.29 | 0.00 | 3,505.79 |
| ATRAZINE | 0.00 | 1,858,748.76 | 0.00 | 0.00 | 1,858,748.76 |
| BENZ(A)ANTHR | 932.72 | 28,592.41 | 0.00 | 239.36 | 29,764.49 |
| BENZ(GHI)PE | 2.88 | 2,382.69 | 0.00 | 19.96 | 2,405.53 |
| BENZENE | 49,037.39 | 3,610,953.79 | 12,681,043.35 | 595,400.41 | 16,936,434.95 |
| BENZO(A)PYRE | 8,223.61 | 4,765.40 | 0.00 | 39.90 | 13,028.91 |
| BENZO(B)FLUO | 0.18 | 4,765.40 | 0.00 | 39.89 | 4,805.47 |
| BENZO(K)FLUO | 0.00 | 2,382.69 | 0.00 | 19.95 | 2,402.64 |
| BERYLLIUM | 285.51 | 0.03 | 0.00 | 0.00 | 285.54 |
| BIS(2-CLETH) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| BUTADIENE,13 | 0.17 | 0.00 | 1,639,157.93 | 185.14 | 1,639,343.23 |
| CADMIUM | 7,153.14 | 55.06 | 0.00 | 0.46 | 7,208.65 |
| CARBON TETRA | 1.50 | 0.00 | 0.00 | 0.00 | 1.50 |
| CHLORDANE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CHLOROFORM | 3.50 | 9,691.95 | 0.00 | 17.35 | 9,712.80 |
| CHROMIUM | 7,752.17 | 1.79 | 288.87 | 0.01 | 8,042.85 |
| CHROMIUM VI | 34.11 | 0.00 | 0.00 | 0.00 | 34.11 |
| CHRYSENE | 711.46 | 11,916.00 | 0.00 | 99.70 | 12,727.16 |
| COBALT | 320.49 | 0.00 | 0.00 | 0.00 | 320.49 |
| COKE OVEN GS | 343,173.85 | 0.00 | 0.00 | 0.00 | 343,173.85 |
| COPPER | 2,783.22 | 0.00 | 58,784.97 | 0.00 | 61,568.19 |
| DIBENZAHAN | 0.08 | 2,382.69 | 0.00 | 19.95 | 2,402.72 |
| DIBROMOET,12 | 0.21 | 306.49 | 0.00 | 1.04 | 307.75 |
| DIBUTYL PHTH | 14.67 | 232,429.70 | 0.00 | 557.30 | 233,001.67 |
| DICHLORETH12 | 16.93 | 3,200.23 | 0.00 | 10.81 | 3,227.97 |
| DIEYLHEX PHT | 293.76 | 0.00 | 0.00 | 0.00 | 293.76 |
| DIOCTYL PHTH | 74.46 | 0.00 | 0.00 | 0.00 | 74.46 |
| ETHYLBENZENE | 158.54 | 951,538.28 | 5,388,275.29 | 221,932.33 | 6,561,904.43 |
| ETHYLENE OXI | 25,861.25 | 147,762.08 | 0.00 | 264.91 | 173,888.24 |
| FLUORANTHENE | 1,583.24 | 14,296.20 | 0.00 | 119.70 | 15,999.14 |
| FLUORENE | 36.03 | 16,678.93 | 0.00 | 139.62 | 16,854.58 |
| FORMALDEHYDE | 648,809.80 | 12,399.50 | 4,877,195.28 | 2,012,994.73 | 7,551,399.31 |
| GLYCOL ETHRS | 0.00 | 395,944.68 | 0.00 | 708.98 | 396,653.66 |
| HEPTACHLOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HEXCHLORETH | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HEXCL-13-BUT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HEXCLBENZENE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HYDRAZINE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| INDN(123CDPY | 1.37 | 4,765.40 | 0.00 | 39.89 | 4,806.66 |
| LEAD | 62,165.02 | 0.00 | 14,200.74 | 0.00 | 76,365.75 |
| LEAD,ALK | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANGANESE | 91,954.80 | 262.11 | 523.97 | 2.19 | 92,743.07 |
| MERCURY | 16,528.68 | 69.84 | 261.51 | 0.41 | 16,860.43 |
| METHENE(B)4- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| METHOXYCHLOR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| METHYLENE CL | 360,251.20 | 2,839,828.09 | 0.00 | 5,119.35 | 3,205,198.64 |
| NAPHTHALENE | 12,504.21 | 980,440.02 | 804,617.64 | 3,431.31 | 1,800,993.18 |
| NICKEL | 7,864.50 | 3.40 | 359.56 | 0.02 | 8,227.49 |
| PARATHION | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PCBS | 2.86 | 0.00 | 0.00 | 0.00 | 2.86 |
| PCDD | 0.8531 | 0.0000 | 0.0000 | 0.0000 | 0.8531 |
| PCDF | 2.2951 | 0.0000 | 0.0000 | 0.0000 | 2.2951 |
| PCP | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PENTCLNITBEN | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PERC | 185,232.61 | 10,286,237.70 | 0.00 | 6,100.70 | 10,477,571.01 |
| PHENANTHRENE | 314.10 | 582,570.73 | 0.00 | 4,876.88 | 587,761.71 |
| PHENOL | 7,139.42 | 0.00 | 0.00 | 26.53 | 7,165.95 |
| PHOSGENE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PYRENE | 62.52 | 11,913.48 | 0.00 | 99.75 | 12,075.75 |
| STYRENE | 111,863.62 | 0.00 | 2,972,171.21 | 38.18 | 3,084,073.01 |
| TCDD,2378 | 0.0025 | 0.0000 | 0.0000 | 0.0000 | 0.0025 |
| TCDF,2378 | 97.1619 | 0.0000 | 0.0000 | 0.0000 | 97.1619 |
| TCE,111 | 170,549.14 | 13,115,379.71 | 0.00 | 23,671.11 | 13,309,599.96 |
| TOLUENE | 359,485.10 | 22,609,843.36 | 37,019,594.57 | 1,011,951.26 | 61,000,874.29 |
| TOLUENE24DII | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TRICHLORETHY | 1,412,404.96 | 8,829,438.90 | 0.00 | 15,986.66 | 10,257,830.52 |
| TRICLPHN,245 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TRICLPHN,246 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TRIFLURALIN | 0.00 | 35,374.21 | 0.00 | 8.96 | 35,383.17 |
| VINYL CHLOR | 14,542.14 | 0.00 | 0.00 | 0.00 | 14,542.14 |
| XYLENE,M | 38.73 | 96,238.86 | 10,609,339.06 | 611,963.38 | 11,317,580.03 |
| XYLENE,O | 49.94 | 1,397,511.18 | 5,748,407.29 | 301,321.02 | 7,447,289.43 |
| XYLENE,P | 3.59 | 96,238.86 | 0.00 | 174.25 | 96,416.70 |
| XYLENES ISO | 2,096,071.59 | 9,563,473.58 | 20,917,805.74 | 17,330.81 | 32,594,681.71 |

# Michigan - Alcona Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.73 | 63.50 | | | 64.23 |
| ACENAPHTHYL | 9.49 | 720.00 | | | 729.49 |
| ACETALDEHYDE | 647.30 | | 2,717.28 | 3,612.90 | 6,977.48 |
| ACROLEIN | 0.86 | | 386.01 | 0.03 | 386.90 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 8.20 | 84.70 | | 0.00 | 92.90 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.19 | 0.00 | 0.02 | | 0.21 |
| ATRAZINE | | 995.78 | | | 995.78 |
| BENZ(A)ANTHR | 0.39 | 254.10 | | 0.00 | 254.49 |
| BENZ(GHI)PE | 0.00 | 21.17 | | 0.00 | 21.17 |
| BENZENE | 776.76 | 16,188.52 | 15,599.00 | 9,448.90 | 42,013.18 |
| BENZO(A)PYRE | 0.04 | 42.35 | | 0.00 | 42.39 |
| BENZO(B)FLUO | | 42.35 | | 0.00 | 42.35 |
| BENZO(K)FLUO | | 21.17 | | 0.00 | 21.17 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 2,016.36 | 0.02 | 2,016.38 |
| CADMIUM | 0.04 | 0.49 | | | 0.53 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 10.81 | | | 10.81 |
| CHROMIUM | 0.28 | 0.01 | 0.50 | | 0.80 |
| CHROMIUM VI | 0.10 | | | | 0.10 |
| CHRYSENE | 9.28 | 106.00 | | 0.00 | 115.28 |
| COBALT | 0.28 | | | | 0.28 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.41 | | 79.98 | | 80.39 |
| DIBENZAHAN | | 21.17 | | 0.00 | 21.17 |
| DIBROMOET,12 | | 0.00 | | | 0.00 |
| DIBUTYL PHTH | | 343.14 | | | 343.14 |
| DICHLORETH12 | | 0.05 | | | 0.05 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.00 | 953.07 | 6,750.13 | 3,617.57 | 11,320.77 |
| ETHYLENE OXI | | 164.70 | | | 164.70 |
| FLUORANTHENE | 19.42 | 127.05 | | 0.00 | 146.47 |
| FLUORENE | 2.07 | 148.22 | | | 150.29 |
| FORMALDEHYDE | 1,424.05 | 13.83 | 7,184.17 | 10,689.74 | 19,311.79 |
| GLYCOL ETHRS | | 441.58 | | | 441.58 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.07 | 42.35 | | 0.00 | 42.42 |
| LEAD | 0.01 | | 27.90 | | 27.91 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 19.20 | 2.33 | 0.88 | | 22.42 |
| MERCURY | 1.40 | 0.18 | 0.59 | | 2.17 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 3,166.33 | | | 3,166.33 |
| NAPHTHALENE | 496.26 | 2,655.87 | 994.62 | 0.00 | 4,146.75 |
| NICKEL | 1.21 | 0.02 | 0.65 | | 1.88 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0026 | | | | 0.0026 |
| PCDF | 0.0114 | | | | 0.0114 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 3,759.69 | | | 3,759.69 |
| PHENANTHRENE | 12.30 | 5,177.19 | | 0.00 | 5,189.49 |
| PHENOL | 84.15 | | | 0.00 | 84.15 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 3.60 | 105.87 | | 0.00 | 109.47 |
| STYRENE | | | 4,060.95 | 0.01 | 4,060.96 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 14,622.64 | | | 14,622.64 |
| TOLUENE | 0.00 | 22,427.96 | 46,066.55 | 16,090.10 | 84,584.61 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 9,843.02 | | | 9,843.02 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 63.69 | | | 63.69 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 107.29 | 13,082.52 | 10,042.80 | 23,232.61 |
| XYLENE,O | | 2,688.73 | 7,174.12 | 4,913.42 | 14,776.27 |
| XYLENE,P | | 107.29 | | | 107.29 |
| XYLENES ISO | 0.00 | 7,247.42 | 26,069.63 | 0.02 | 33,317.07 |

# Michigan - Alger Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.14 | 59.30 | | | 59.44 |
| ACENAPHTHYL | 1.77 | 672.00 | | | 673.77 |
| ACETALDEHYDE | 120.47 | | 1,708.48 | 7,817.25 | 9,646.21 |
| ACROLEIN | 0.16 | | 243.20 | 0.09 | 243.46 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 1.53 | 79.06 | | 0.00 | 80.59 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 19.90 | 0.00 | 0.01 | | 19.91 |
| ATRAZINE | | 0.00 | | | 0.00 |
| BENZ(A)ANTHR | 0.07 | 237.18 | | 0.00 | 237.25 |
| BENZ(GHI)PE | 0.01 | 19.77 | | 0.00 | 19.78 |
| BENZENE | 144.57 | 16,575.80 | 9,929.64 | 9,208.62 | 35,858.64 |
| BENZO(A)PYRE | 0.01 | 39.53 | | 0.00 | 39.54 |
| BENZO(B)FLUO | | 39.53 | | 0.00 | 39.53 |
| BENZO(K)FLUO | | 19.77 | | 0.00 | 19.77 |
| BERYLLIUM | 0.07 | 0.00 | | | 0.07 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 1,283.52 | 0.08 | 1,283.60 |
| CADMIUM | 1.94 | 0.45 | | | 2.39 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 9.91 | | | 9.91 |
| CHROMIUM | 62.58 | 0.01 | 0.31 | | 62.90 |
| CHROMIUM VI | 0.28 | | | | 0.28 |
| CHRYSENE | 1.73 | 98.80 | | 0.00 | 100.53 |
| COBALT | 0.78 | | | | 0.78 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 1.14 | | 49.79 | | 50.93 |
| DIBENZAHAN | | 19.77 | | 0.00 | 19.77 |
| DIBROMOET,12 | | 0.40 | | | 0.40 |
| DIBUTYL PHTH | | 313.35 | | | 313.35 |
| DICHLORETH12 | | 4.19 | | | 4.19 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 844.31 | 4,290.07 | 3,525.56 | 8,659.94 |
| ETHYLENE OXI | | 151.40 | | | 151.40 |
| FLUORANTHENE | 3.61 | 118.59 | | 0.00 | 122.20 |
| FLUORENE | 0.39 | 138.36 | | | 138.75 |
| FORMALDEHYDE | 525.98 | 12.68 | 4,510.33 | 23,129.45 | 28,178.44 |
| GLYCOL ETHRS | | 404.65 | | | 404.65 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.01 | 39.53 | | 0.00 | 39.54 |
| LEAD | 28.26 | | 17.08 | | 45.34 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 54.01 | 2.17 | 0.54 | | 56.72 |
| MERCURY | 0.35 | 0.10 | 0.36 | | 0.81 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 2,895.43 | | | 2,895.43 |
| NAPHTHALENE | 92.36 | 2,646.29 | 632.86 | 0.00 | 3,371.51 |
| NICKEL | 3.88 | 0.02 | 0.40 | | 4.30 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0005 | | | | 0.0005 |
| PCDF | 0.0021 | | | | 0.0021 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 3,434.24 | | | 3,434.24 |
| PHENANTHRENE | 2.29 | 4,832.63 | | 0.00 | 4,834.92 |
| PHENOL | 15.66 | | | 0.01 | 15.67 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.67 | 98.83 | | 0.00 | 99.50 |
| STYRENE | | | 2,562.33 | 0.02 | 2,562.35 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 13,366.48 | | | 13,366.48 |
| TOLUENE | | 18,667.01 | 29,294.35 | 15,680.86 | 63,642.22 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 8,988.31 | | | 8,988.31 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 21.40 | | | 21.40 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 97.97 | 8,325.97 | 9,787.35 | 18,211.29 |
| XYLENE,O | | 1,910.59 | 4,560.93 | 4,788.44 | 11,259.97 |
| XYLENE,P | | 97.97 | | | 97.97 |
| XYLENES ISO | | 8,605.15 | 16,575.95 | 0.04 | 25,181.14 |

# Michigan - Allegan Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.01 | 133.00 | | | 133.01 |
| ACENAPHTHYL | 0.10 | 1,500.00 | | | 1,500.10 |
| ACETALDEHYDE | 6.78 | | 20,361.36 | 9,340.13 | 29,708.27 |
| ACROLEIN | 0.01 | | 2,907.46 | 1.27 | 2,908.75 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.09 | 176.77 | | 0.00 | 176.86 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 46.82 | 0.01 | 0.17 | | 46.99 |
| ATRAZINE | | 71,531.52 | | | 71,531.52 |
| BENZ(A)ANTHR | 0.00 | 530.30 | | 0.00 | 530.30 |
| BENZ(GHI)PE | 0.00 | 44.19 | | 0.00 | 44.19 |
| BENZENE | 12.31 | 55,704.20 | 120,613.89 | 3,178.88 | 179,509.28 |
| BENZO(A)PYRE | 0.00 | 88.38 | | 0.00 | 88.38 |
| BENZO(B)FLUO | | 88.38 | | 0.00 | 88.38 |
| BENZO(K)FLUO | | 44.19 | | 0.00 | 44.19 |
| BERYLLIUM | 0.05 | 0.00 | | | 0.05 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 15,590.75 | 1.20 | 15,591.95 |
| CADMIUM | 3.92 | 1.02 | | | 4.95 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 99.59 | | | 99.59 |
| CHROMIUM | 147.18 | 0.03 | 3.71 | | 150.91 |
| CHROMIUM VI | 0.02 | | | | 0.02 |
| CHRYSENE | 0.12 | 221.00 | | 0.00 | 221.12 |
| COBALT | 0.04 | | | | 0.04 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.31 | | 609.67 | | 609.98 |
| DIBENZAHAN | | 44.19 | | 0.00 | 44.19 |
| DIBROMOET,12 | | 4.10 | | | 4.10 |
| DIBUTYL PHTH | | 2,443.92 | | | 2,443.92 |
| DICHLORETH12 | | 42.46 | | | 42.46 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 1.59 | 12,026.26 | 52,007.17 | 1,216.72 | 65,251.75 |
| ETHYLENE OXI | | 1,518.31 | | | 1,518.31 |
| FLUORANTHENE | 0.24 | 265.15 | | 0.00 | 265.39 |
| FLUORENE | 0.02 | 309.34 | | | 309.36 |
| FORMALDEHYDE | 1,989.92 | 127.41 | 53,628.59 | 27,636.12 | 83,382.04 |
| GLYCOL ETHRS | | 4,068.24 | | | 4,068.24 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.00 | 88.38 | | 0.00 | 88.38 |
| LEAD | 64.10 | | 201.06 | | 265.16 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 3.28 | 4.86 | 6.55 | | 14.70 |
| MERCURY | 9.68 | 0.66 | 4.15 | | 14.50 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 38,150.19 | 29,009.48 | | | 67,159.67 |
| NAPHTHALENE | 75.99 | 12,242.34 | 7,683.28 | 0.02 | 20,001.63 |
| NICKEL | 0.53 | 0.06 | 4.75 | | 5.34 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0000 | | | | 0.0000 |
| PCDF | 0.0001 | | | | 0.0001 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 111,970.90 | | | 111,970.90 |
| PHENANTHRENE | 0.13 | 10,804.95 | | 0.00 | 10,805.08 |
| PHENOL | 11.35 | | | 0.18 | 11.53 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.04 | 220.96 | | 0.00 | 221.00 |
| STYRENE | | | 30,790.69 | 0.29 | 30,790.98 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 133,838.29 | | | 133,838.29 |
| TOLUENE | 174.61 | 399,266.67 | 355,397.51 | 5,412.35 | 760,251.14 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 7,992.60 | 89,850.75 | | | 97,843.35 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 537.96 | | | 537.96 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 979.35 | 101,108.33 | 3,376.66 | 105,464.34 |
| XYLENE,O | | 34,346.64 | 55,317.35 | 1,652.17 | 91,316.15 |
| XYLENE,P | | 979.35 | | | 979.35 |
| XYLENES ISO | 8.35 | 110,001.91 | 201,059.97 | 1.47 | 311,071.71 |

# Michigan - Alpena Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.17 | 93.00 | | | 93.17 |
| ACENAPHTHYL | 2.15 | 1,050.00 | | | 1,052.15 |
| ACETALDEHYDE | 146.69 | | 5,384.65 | 4,517.83 | 10,049.17 |
| ACROLEIN | 0.20 | | 766.64 | 0.01 | 766.84 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 1.86 | 124.01 | | 0.00 | 125.87 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 75.91 | 0.00 | 0.04 | | 75.96 |
| ATRAZINE | | 3,066.58 | | | 3,066.58 |
| BENZ(A)ANTHR | 0.09 | 372.04 | | 0.00 | 372.13 |
| BENZ(GHI)PE | 0.01 | 31.00 | | 0.00 | 31.01 |
| BENZENE | 399.69 | 33,031.88 | 31,335.45 | 3,625.65 | 68,392.66 |
| BENZO(A)PYRE | 0.01 | 62.01 | | 0.00 | 62.02 |
| BENZO(B)FLUO | 0.00 | 62.01 | | 0.00 | 62.01 |
| BENZO(K)FLUO | | 31.00 | | 0.00 | 31.00 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 4,050.48 | 0.06 | 4,050.54 |
| CADMIUM | 19.81 | 0.71 | | | 20.52 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 30.30 | | | 30.30 |
| CHROMIUM | 252.71 | 0.02 | 0.99 | | 253.72 |
| CHROMIUM VI | 0.34 | | | | 0.34 |
| CHRYSENE | 2.10 | 155.00 | | 0.00 | 157.10 |
| COBALT | 0.95 | | | | 0.95 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 1.39 | | 160.64 | | 162.03 |
| DIBENZAHAN | | 31.00 | | 0.00 | 31.00 |
| DIBROMOET,12 | | 2.29 | | | 2.29 |
| DIBUTYL PHTH | | 970.69 | | | 970.69 |
| DICHLORETH12 | | 23.70 | | | 23.70 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.00 | 3,018.87 | 13,538.44 | 1,388.10 | 17,945.41 |
| ETHYLENE OXI | | 462.13 | | | 462.13 |
| FLUORANTHENE | 4.40 | 186.02 | | 0.00 | 190.42 |
| FLUORENE | 0.47 | 217.02 | | | 217.49 |
| FORMALDEHYDE | 31,889.15 | 38.77 | 14,213.10 | 13,367.23 | 59,508.26 |
| GLYCOL ETHRS | | 1,237.74 | | | 1,237.74 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.02 | 62.01 | | 0.00 | 62.03 |
| LEAD | 2,234.89 | | 54.39 | | 2,289.28 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 589.56 | 3.41 | 1.74 | | 594.72 |
| MERCURY | 14.49 | 0.27 | 1.14 | | 15.90 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 8,924.84 | | | 8,924.84 |
| NAPHTHALENE | 112.72 | 5,826.50 | 1,997.17 | 0.00 | 7,936.39 |
| NICKEL | 122.54 | 0.03 | 1.27 | | 123.84 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0006 | | | | 0.0006 |
| PCDF | 0.0026 | | | | 0.0026 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 34,684.27 | | | 34,684.27 |
| PHENANTHRENE | 2.86 | 7,580.25 | | 0.00 | 7,583.11 |
| PHENOL | 19.07 | | | 0.01 | 19.08 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.82 | 155.02 | | 0.00 | 155.84 |
| STYRENE | | | 8,087.75 | 0.02 | 8,087.77 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | 2.6698 | | | | 2.6698 |
| TCE,111 | 7.05 | 41,256.93 | | | 41,263.98 |
| TOLUENE | 19.54 | 80,436.43 | 92,447.62 | 6,174.15 | 179,077.74 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 27,844.90 | | | 27,844.90 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 102.46 | | | 102.46 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 303.50 | 26,274.84 | 3,853.28 | 30,431.62 |
| XYLENE,O | | 5,812.95 | 14,393.75 | 1,885.22 | 22,091.92 |
| XYLENE,P | | 303.50 | | | 303.50 |
| XYLENES ISO | 5.97 | 35,085.65 | 52,309.99 | 0.35 | 87,401.95 |

# Michigan - Antrim Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 85.40 | | | 85.40 |
| ACENAPHTHYL | | 967.00 | | | 967.00 |
| ACETALDEHYDE | | | 4,873.85 | 2,513.21 | 7,387.07 |
| ACROLEIN | | | 692.31 | 0.37 | 692.69 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 113.82 | | 0.00 | 113.82 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.00 | 0.00 | 0.04 | | 0.04 |
| ATRAZINE | | 1,276.59 | | | 1,276.59 |
| BENZ(A)ANTHR | | 341.47 | | 0.00 | 341.47 |
| BENZ(GHI)PE | | 28.46 | | 0.00 | 28.46 |
| BENZENE | 6.14 | 25,488.05 | 27,966.78 | 6,522.17 | 59,983.14 |
| BENZO(A)PYRE | | 56.91 | | 0.00 | 56.91 |
| BENZO(B)FLUO | | 56.91 | | | 56.91 |
| BENZO(K)FLUO | | 28.46 | | | 28.46 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 3,615.04 | 0.30 | 3,615.34 |
| CADMIUM | 0.00 | 0.65 | | | 0.65 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 20.82 | | | 20.82 |
| CHROMIUM | | 0.01 | 0.91 | | 0.92 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | | 142.00 | | 0.00 | 142.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.00 | | 145.58 | | 145.58 |
| DIBENZAHAN | | 28.46 | | | 28.46 |
| DIBROMOET,12 | | 1.86 | | | 1.86 |
| DIBUTYL PHTH | | 651.83 | | | 651.83 |
| DICHLORETH12 | | 19.13 | | | 19.13 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 2,036.65 | 12,103.65 | 2,496.96 | 16,637.27 |
| ETHYLENE OXI | | 317.15 | | | 317.15 |
| FLUORANTHENE | 0.00 | 170.73 | | 0.00 | 170.73 |
| FLUORENE | | 199.19 | | | 199.19 |
| FORMALDEHYDE | | 26.63 | 12,886.56 | 7,436.20 | 20,349.39 |
| GLYCOL ETHRS | | 850.32 | | | 850.32 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 56.91 | | | 56.91 |
| LEAD | | | 50.35 | | 50.35 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 8.37 | 3.13 | 1.60 | | 13.11 |
| MERCURY | 0.38 | 0.26 | 1.06 | | 1.71 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 6,047.26 | | | 6,047.26 |
| NAPHTHALENE | | 4,767.65 | 1,783.29 | 0.01 | 6,550.94 |
| NICKEL | 0.00 | 0.03 | 1.17 | | 1.21 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 23,302.75 | | | 23,302.75 |
| PHENANTHRENE | | 6,957.40 | | 0.00 | 6,957.40 |
| PHENOL | | | | 0.04 | 0.04 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 142.28 | | 0.00 | 142.28 |
| STYRENE | | | 7,286.75 | 0.06 | 7,286.81 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 7.26 | 27,886.40 | | | 27,893.66 |
| TOLUENE | 20.09 | 45,498.81 | 82,598.57 | 11,105.86 | 139,223.33 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 18,697.17 | | | 18,697.17 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 41.36 | | | 41.36 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 203.79 | 23,455.60 | 6,931.79 | 30,591.18 |
| XYLENE,O | | 3,781.38 | 12,863.78 | 3,391.39 | 20,036.56 |
| XYLENE,P | | 203.79 | | | 203.79 |
| XYLENES ISO | 6.14 | 22,412.56 | 46,743.76 | 0.08 | 69,162.55 |

# Michigan - Arenac Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 52.20 | | | 52.20 |
| ACENAPHTHYL | | 592.00 | | | 592.00 |
| ACETALDEHYDE | | | 4,002.41 | 2,828.80 | 6,831.21 |
| ACROLEIN | | | 568.52 | | 568.52 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 69.59 | | | 69.59 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.03 | | 0.04 |
| ATRAZINE | | 11,494.52 | | | 11,494.52 |
| BENZ(A)ANTHR | | 208.78 | | | 208.78 |
| BENZ(GHI)PE | | 17.40 | | | 17.40 |
| BENZENE | | 18,647.48 | 22,963.23 | 2,612.57 | 44,223.29 |
| BENZO(A)PYRE | | 34.80 | | | 34.80 |
| BENZO(B)FLUO | | 34.80 | | | 34.80 |
| BENZO(K)FLUO | | 17.40 | | | 17.40 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 2,968.27 | | 2,968.27 |
| CADMIUM | | 0.40 | | | 0.40 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 16.21 | | | 16.21 |
| CHROMIUM | | 0.01 | 0.75 | | 0.76 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 87.00 | | | 87.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 120.52 | | 120.52 |
| DIBENZAHAN | | 17.40 | | | 17.40 |
| DIBROMOET,12 | | 1.33 | | | 1.33 |
| DIBUTYL PHTH | | 515.35 | | | 515.35 |
| DICHLORETH12 | | 13.75 | | | 13.75 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 1,451.36 | 9,937.47 | 1,000.24 | 12,389.08 |
| ETHYLENE OXI | | 247.44 | | | 247.44 |
| FLUORANTHENE | | 104.39 | | | 104.39 |
| FLUORENE | | 121.79 | | | 121.79 |
| FORMALDEHYDE | | 20.73 | 10,582.60 | 8,369.76 | 18,973.09 |
| GLYCOL ETHRS | | 662.15 | | | 662.15 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 34.80 | | | 34.80 |
| LEAD | | | 41.21 | | 41.21 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 1.91 | 1.31 | | 3.22 |
| MERCURY | | 0.17 | 0.87 | | 1.04 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 4,752.38 | | | 4,752.38 |
| NAPHTHALENE | | 3,239.11 | 1,464.20 | | 4,703.31 |
| NICKEL | | 0.02 | 0.96 | | 0.98 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 18,417.08 | | | 18,417.08 |
| PHENANTHRENE | | 4,253.95 | | | 4,253.95 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 86.99 | | | 86.99 |
| STYRENE | | | 5,980.14 | | 5,980.14 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 21,951.00 | | | 21,951.00 |
| TOLUENE | | 31,717.21 | 67,817.05 | 4,448.84 | 103,983.11 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 14,782.68 | | | 14,782.68 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 157.51 | | | 157.51 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 161.13 | 19,258.90 | 2,776.79 | 22,196.82 |
| XYLENE,O | | 1,737.16 | 10,561.50 | 1,358.54 | 13,657.20 |
| XYLENE,P | | 161.13 | | | 161.13 |
| XYLENES ISO | | 18,201.03 | 38,378.74 | | 56,579.77 |

# Michigan - Baraga Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 39.40 | | | 39.40 |
| ACENAPHTHYL | | 447.00 | | | 447.00 |
| ACETALDEHYDE | | | 2,129.14 | 6,227.45 | 8,356.59 |
| ACROLEIN | | | 302.49 | | 302.49 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 52.54 | | | 52.54 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.01 | 0.00 | 0.02 | | 0.02 |
| ATRAZINE | | 0.00 | | | 0.00 |
| BENZ(A)ANTHR | | 157.62 | | | 157.62 |
| BENZ(GHI)PE | | 13.13 | | | 13.13 |
| BENZENE | | 11,683.04 | 12,228.15 | 18,992.94 | 42,904.13 |
| BENZO(A)PYRE | | 26.27 | | | 26.27 |
| BENZO(B)FLUO | | 26.27 | | | 26.27 |
| BENZO(K)FLUO | | 13.13 | | | 13.13 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 1,580.63 | | 1,580.63 |
| CADMIUM | 0.02 | 0.30 | | | 0.32 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 8.36 | | | 8.36 |
| CHROMIUM | 0.09 | 0.01 | 0.39 | | 0.49 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 65.70 | | | 65.70 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 61.87 | | 61.87 |
| DIBENZAHAN | | 13.13 | | | 13.13 |
| DIBROMOET,12 | | 0.42 | | | 0.42 |
| DIBUTYL PHTH | | 267.76 | | | 267.76 |
| DICHLORETH12 | | 4.34 | | | 4.34 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 769.20 | 5,290.92 | 7,271.58 | 13,331.71 |
| ETHYLENE OXI | | 127.97 | | | 127.97 |
| FLUORANTHENE | | 78.81 | | | 78.81 |
| FLUORENE | | 91.94 | | | 91.94 |
| FORMALDEHYDE | 0.54 | 10.71 | 5,628.90 | 18,425.54 | 24,065.69 |
| GLYCOL ETHRS | | 341.81 | | | 341.81 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 26.27 | | | 26.27 |
| LEAD | 0.01 | | 21.69 | | 21.70 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 0.02 | 1.44 | 0.68 | | 2.14 |
| MERCURY | 0.00 | 0.07 | 0.46 | | 0.53 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 2,462.96 | | | 2,462.96 |
| NAPHTHALENE | | 1,939.90 | 779.66 | | 2,719.56 |
| NICKEL | 0.03 | 0.01 | 0.50 | | 0.54 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 2,931.89 | | | 2,931.89 |
| PHENANTHRENE | | 3,211.45 | | | 3,211.45 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 65.67 | | | 65.67 |
| STYRENE | | | 3,181.42 | | 3,181.42 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 11,384.12 | | | 11,384.12 |
| TOLUENE | | 18,828.84 | 36,109.27 | 32,342.27 | 87,280.38 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 7,680.76 | | | 7,680.76 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 25.27 | | | 25.27 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 83.72 | 10,255.31 | 20,186.78 | 30,525.81 |
| XYLENE,O | | 1,679.23 | 5,623.31 | 9,876.33 | 17,178.87 |
| XYLENE,P | | 83.72 | | | 83.72 |
| XYLENES ISO | | 8,093.87 | 20,434.59 | | 28,528.46 |

# Michigan - Barry Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.04 | 124.00 | | | 124.04 |
| ACENAPHTHYL | 0.52 | 1,400.00 | | | 1,400.52 |
| ACETALDEHYDE | 35.25 | | 11,798.85 | 4,191.25 | 16,025.35 |
| ACROLEIN | 0.05 | | 1,676.84 | 0.07 | 1,676.96 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.45 | 165.13 | | 0.00 | 165.58 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 1.03 | 0.00 | 0.10 | | 1.14 |
| ATRAZINE | | 27,992.05 | | | 27,992.05 |
| BENZ(A)ANTHR | 0.02 | 495.40 | | 0.00 | 495.42 |
| BENZ(GHI)PE | 0.01 | 41.28 | | 0.00 | 41.29 |
| BENZENE | 42.30 | 42,547.15 | 67,922.59 | 2,620.23 | 113,132.27 |
| BENZO(A)PYRE | 0.00 | 82.57 | | 0.00 | 82.57 |
| BENZO(B)FLUO | | 82.57 | | 0.00 | 82.57 |
| BENZO(K)FLUO | | 41.28 | | 0.00 | 41.28 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 8,779.80 | 0.18 | 8,779.98 |
| CADMIUM | 0.20 | 0.95 | | | 1.15 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 53.84 | | | 53.84 |
| CHROMIUM | 1.53 | 0.02 | 2.22 | | 3.77 |
| CHROMIUM VI | 0.54 | | | | 0.54 |
| CHRYSENE | 0.51 | 206.00 | | 0.00 | 206.51 |
| COBALT | 1.53 | | | | 1.53 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 2.23 | | 361.51 | | 363.74 |
| DIBENZAHAN | | 41.28 | | 0.00 | 41.28 |
| DIBROMOET,12 | | 2.10 | | | 2.10 |
| DIBUTYL PHTH | | 1,163.29 | | | 1,163.29 |
| DICHLORETH12 | | 21.77 | | | 21.77 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 5,122.53 | 29,383.76 | 1,003.15 | 35,509.44 |
| ETHYLENE OXI | | 820.73 | | | 820.73 |
| FLUORANTHENE | 1.06 | 247.70 | | 0.00 | 248.76 |
| FLUORENE | 0.11 | 288.98 | | | 289.09 |
| FORMALDEHYDE | 77.55 | 68.87 | 31,184.34 | 12,401.06 | 43,731.82 |
| GLYCOL ETHRS | | 2,199.19 | | | 2,199.19 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.00 | 82.57 | | 0.00 | 82.57 |
| LEAD | 0.00 | | 121.77 | | 121.77 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 104.57 | 4.54 | 3.90 | | 113.02 |
| MERCURY | 0.08 | 0.37 | 2.55 | | 3.00 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 15,628.43 | | | 15,628.43 |
| NAPHTHALENE | 27.02 | 8,179.57 | 4,330.55 | 0.00 | 12,537.15 |
| NICKEL | 6.58 | 0.05 | 2.85 | | 9.48 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0001 | | | | 0.0001 |
| PCDF | 0.0065 | | | | 0.0065 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 60,194.85 | | | 60,194.85 |
| PHENANTHRENE | 0.67 | 10,093.75 | | 0.00 | 10,094.42 |
| PHENOL | 4.58 | | | 0.04 | 4.62 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.20 | 206.42 | | 0.00 | 206.62 |
| STYRENE | | | 17,656.27 | 0.06 | 17,656.33 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 72,059.40 | | | 72,059.40 |
| TOLUENE | | 123,607.40 | 200,552.71 | 4,462.25 | 328,622.36 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 48,296.38 | | | 48,296.38 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 556.36 | | | 556.36 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 526.42 | 56,963.09 | 2,784.31 | 60,273.82 |
| XYLENE,O | | 8,895.65 | 31,231.65 | 1,362.25 | 41,489.54 |
| XYLENE,P | | 526.42 | | | 526.42 |
| XYLENES ISO | | 49,440.37 | 113,492.00 | 0.77 | 162,933.14 |

# Michigan - Bay Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.73 | 81.00 | | | 81.73 |
| ACENAPHTHYL | 0.01 | 918.00 | | | 918.01 |
| ACETALDEHYDE | | | 25,986.30 | 6,536.19 | 32,522.49 |
| ACROLEIN | | | 3,813.28 | 0.35 | 3,813.63 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | 76.32 | | | | 76.32 |
| ANTHRACENE | 0.04 | 107.97 | | 0.00 | 108.01 |
| ANTIMONY | 180.90 | | | | 180.90 |
| ARSENIC | 60.80 | 0.01 | 0.18 | | 60.98 |
| ATRAZINE | | 38,079.05 | | | 38,079.05 |
| BENZ(A)ANTHR | 0.14 | 323.91 | | 0.00 | 324.05 |
| BENZ(GHI)PE | 0.08 | 26.99 | | 0.00 | 27.07 |
| BENZENE | 169.62 | 47,701.35 | 179,332.86 | 2,370.98 | 229,574.81 |
| BENZO(A)PYRE | 0.00 | 53.98 | | 0.00 | 53.98 |
| BENZO(B)FLUO | | 53.98 | | 0.00 | 53.98 |
| BENZO(K)FLUO | | 26.99 | | 0.00 | 26.99 |
| BERYLLIUM | 3.35 | 0.00 | | | 3.35 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 23,180.64 | 0.46 | 23,181.10 |
| CADMIUM | 74.29 | 0.62 | | | 74.91 |
| CARBON TETRA | 0.03 | 0.00 | | | 0.03 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | 0.09 | 109.40 | | | 109.49 |
| CHROMIUM | 118.96 | 0.02 | 3.96 | | 122.94 |
| CHROMIUM VI | 8.54 | | | | 8.54 |
| CHRYSENE | 0.09 | 135.00 | | 0.00 | 135.09 |
| COBALT | 210.15 | | | | 210.15 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 184.68 | | 696.56 | | 881.24 |
| DIBENZAHAN | 0.06 | 26.99 | | 0.00 | 27.05 |
| DIBROMOET,12 | | 5.72 | | | 5.72 |
| DIBUTYL PHTH | | 3,501.49 | | | 3,501.49 |
| DICHLORETH12 | | 59.28 | | | 59.28 |
| DIEYLHEX PHT | 2.90 | | | | 2.90 |
| DIOCTYL PHTH | 2.90 | | | | 2.90 |
| ETHYLBENZENE | 4.64 | 9,883.81 | 76,094.80 | 907.64 | 86,890.90 |
| ETHYLENE OXI | | 1,668.97 | | | 1,668.97 |
| FLUORANTHENE | 0.18 | 161.95 | | 0.00 | 162.13 |
| FLUORENE | 0.15 | 188.95 | | | 189.10 |
| FORMALDEHYDE | 1,293.80 | 139.96 | 67,050.63 | 19,339.38 | 87,823.77 |
| GLYCOL ETHRS | | 4,469.57 | | | 4,469.57 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.07 | 53.98 | | 0.00 | 54.05 |
| LEAD | 271.91 | | 193.11 | | 465.02 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 169.24 | 2.97 | 7.21 | | 179.42 |
| MERCURY | 278.67 | 0.70 | 3.50 | | 282.86 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 1.22 | 32,207.18 | | | 32,208.40 |
| NAPHTHALENE | 67.40 | 12,001.05 | 11,375.61 | 0.00 | 23,444.07 |
| NICKEL | 2,965.12 | 0.04 | 4.93 | | 2,970.09 |
| PARATHION | | | | | 0.00 |
| PCBS | 0.07 | | | | 0.07 |
| PCDD | 0.0026 | | | | 0.0026 |
| PCDF | 0.0031 | | | | 0.0031 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 1.22 | 125,116.63 | | | 125,117.85 |
| PHENANTHRENE | 0.36 | 6,599.59 | | 0.00 | 6,599.95 |
| PHENOL | 67.16 | | | 0.08 | 67.24 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.15 | 134.96 | | 0.00 | 135.11 |
| STYRENE | | | 41,742.75 | 0.13 | 41,742.87 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | 0.0018 | | | | 0.0018 |
| TCE,111 | 8.31 | 148,867.58 | | | 148,875.89 |
| TOLUENE | 236.60 | 196,373.01 | 523,140.42 | 4,037.70 | 723,787.73 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 1.22 | 100,442.37 | | | 100,443.59 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 575.36 | | | 575.36 |
| VINYL CHLOR | 19.84 | | | | 19.84 |
| XYLENE,M | | 1,094.80 | 150,014.60 | 2,518.86 | 153,628.26 |
| XYLENE,O | 3.76 | 6,843.98 | 81,226.37 | 1,232.41 | 89,306.51 |
| XYLENE,P | | 1,094.80 | | | 1,094.80 |
| XYLENES ISO | 2.92 | 105,932.55 | 295,534.98 | 1.22 | 401,471.66 |

# Michigan - Benzie Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | | | | 0.00 |
| ACENAPHTHYL | | 640.00 | | | 640.00 |
| ACETALDEHYDE | | | 3,269.17 | 2,333.35 | 5,602.51 |
| ACROLEIN | | | 464.39 | 0.15 | 464.54 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 75.30 | | 0.00 | 75.30 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.03 | | 0.03 |
| ATRAZINE | | 486.69 | | | 486.69 |
| BENZ(A)ANTHR | | 225.91 | | 0.00 | 225.91 |
| BENZ(GHI)PE | | 18.83 | | 0.00 | 18.83 |
| BENZENE | | 16,588.83 | 18,762.58 | 3,344.38 | 38,695.79 |
| BENZO(A)PYRE | | 37.65 | | 0.00 | 37.65 |
| BENZO(B)FLUO | | 37.65 | | 0.00 | 37.65 |
| BENZO(K)FLUO | | 18.83 | | 0.00 | 18.83 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 2,425.29 | 0.17 | 2,425.46 |
| CADMIUM | | 0.43 | | | 0.43 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 14.20 | | | 14.20 |
| CHROMIUM | | 0.01 | 0.61 | | 0.62 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 94.10 | | 0.00 | 94.10 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 97.27 | | 97.27 |
| DIBENZAHAN | | 18.83 | | 0.00 | 18.83 |
| DIBROMOET,12 | | 0.68 | | | 0.68 |
| DIBUTYL PHTH | | 442.11 | | | 442.11 |
| DICHLORETH12 | | 7.03 | | | 7.03 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 1,226.64 | 8,119.80 | 1,280.38 | 10,626.82 |
| ETHYLENE OXI | | 216.85 | | | 216.85 |
| FLUORANTHENE | | 112.96 | | 0.00 | 112.96 |
| FLUORENE | | 131.78 | | | 131.78 |
| FORMALDEHYDE | | 18.17 | 8,643.53 | 6,903.95 | 15,565.65 |
| GLYCOL ETHRS | | 580.12 | | | 580.12 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 37.65 | | 0.00 | 37.65 |
| LEAD | | | 33.60 | | 33.60 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 2.07 | 1.07 | | 3.14 |
| MERCURY | | 0.21 | 0.71 | | 0.92 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 4,111.18 | | | 4,111.18 |
| NAPHTHALENE | | 2,947.28 | 1,196.37 | 0.00 | 4,143.65 |
| NICKEL | | 0.02 | 0.78 | | 0.80 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 15,807.41 | | | 15,807.41 |
| PHENANTHRENE | | 4,602.93 | | 0.00 | 4,602.93 |
| PHENOL | | | | 0.03 | 0.03 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 94.13 | | 0.00 | 94.13 |
| STYRENE | | | 4,887.13 | 0.04 | 4,887.18 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 18,946.37 | | | 18,946.37 |
| TOLUENE | | 23,924.06 | 55,412.50 | 5,695.01 | 85,031.57 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 12,681.39 | | | 12,681.39 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 7.96 | | | 7.96 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 138.22 | 15,735.96 | 3,554.23 | 19,428.41 |
| XYLENE,O | | 1,852.97 | 8,629.77 | 1,738.92 | 12,221.66 |
| XYLENE,P | | 138.22 | | | 138.22 |
| XYLENES ISO | | 12,292.30 | 31,358.70 | 0.35 | 43,651.36 |

# Michigan - Berrien Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.00 | 115.00 | | | 115.00 |
| ACENAPHTHYL | 0.00 | 1,310.00 | | | 1,310.00 |
| ACETALDEHYDE | 1.79 | | 40,469.21 | 10,384.83 | 50,855.83 |
| ACROLEIN | | | 5,904.30 | 0.79 | 5,905.10 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.00 | 153.79 | | 0.00 | 153.79 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.54 | 0.01 | 0.30 | | 0.85 |
| ATRAZINE | | 34,360.38 | | | 34,360.38 |
| BENZ(A)ANTHR | 0.34 | 461.36 | | 0.00 | 461.70 |
| BENZ(GHI)PE | | 38.45 | | 0.00 | 38.45 |
| BENZENE | 933.19 | 79,103.34 | 270,817.81 | 3,911.25 | 354,765.58 |
| BENZO(A)PYRE | 0.00 | 76.89 | | 0.00 | 76.89 |
| BENZO(B)FLUO | 0.00 | 76.89 | | 0.00 | 76.89 |
| BENZO(K)FLUO | | 38.45 | | 0.00 | 38.45 |
| BERYLLIUM | 0.03 | 0.00 | | | 0.03 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 35,006.11 | 0.81 | 35,006.92 |
| CADMIUM | 0.91 | 0.88 | | | 1.79 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 159.30 | | | 159.30 |
| CHROMIUM | 2.15 | 0.03 | 6.63 | | 8.81 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | 0.00 | 192.00 | | 0.00 | 192.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 39.77 | | 1,150.64 | | 1,190.41 |
| DIBENZAHAN | | 38.45 | | 0.00 | 38.45 |
| DIBROMOET,12 | | 9.70 | | | 9.70 |
| DIBUTYL PHTH | | 3,735.19 | | | 3,735.19 |
| DICHLORETH12 | | 100.25 | | | 100.25 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.18 | 20,573.16 | 115,385.20 | 1,497.24 | 137,455.77 |
| ETHYLENE OXI | | 2,429.66 | | | 2,429.66 |
| FLUORANTHENE | 0.14 | 230.68 | | 0.00 | 230.82 |
| FLUORENE | 0.00 | 269.13 | | | 269.13 |
| FORMALDEHYDE | 179.60 | 203.79 | 104,884.04 | 30,726.85 | 135,994.28 |
| GLYCOL ETHRS | | 6,507.80 | | | 6,507.80 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 76.89 | | 0.00 | 76.89 |
| LEAD | 1,620.10 | | 330.19 | | 1,950.29 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 2,663.32 | 4.23 | 12.01 | | 2,679.56 |
| MERCURY | 8.61 | 1.12 | 6.15 | | 15.88 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 46,893.73 | | | 46,893.73 |
| NAPHTHALENE | 2.41 | 17,975.54 | 17,198.65 | 0.01 | 35,176.61 |
| NICKEL | 13.22 | 0.05 | 8.30 | | 21.58 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 182,168.48 | | | 182,168.48 |
| PHENANTHRENE | 0.02 | 9,400.22 | | 0.00 | 9,400.24 |
| PHENOL | 1.46 | | | 0.12 | 1.59 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 192.23 | | 0.00 | 192.23 |
| STYRENE | | | 64,665.68 | 0.20 | 64,665.88 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 216,750.96 | | | 216,750.96 |
| TOLUENE | 58.01 | 730,769.89 | 792,134.92 | 6,660.01 | 1,529,622.83 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 3,814.65 | 146,242.93 | | | 150,057.58 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 699.52 | | | 699.52 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 1,594.02 | 226,673.88 | 4,155.56 | 232,423.46 |
| XYLENE,O | | 60,570.17 | 123,084.90 | 2,033.20 | 185,688.27 |
| XYLENE,P | | 1,594.02 | | | 1,594.02 |
| XYLENES ISO | 125.02 | 202,054.08 | 447,619.43 | 1.29 | 649,799.83 |

# Michigan - Branch Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.00 | 72.90 | | | 72.90 |
| ACENAPHTHYL | 0.00 | 826.00 | | | 826.00 |
| ACETALDEHYDE | | | 8,744.49 | 4,572.42 | 13,316.90 |
| ACROLEIN | | | 1,243.50 | 0.21 | 1,243.70 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.00 | 97.20 | | 0.00 | 97.20 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.00 | 0.00 | 0.07 | | 0.08 |
| ATRAZINE | | 76,270.08 | | | 76,270.08 |
| BENZ(A)ANTHR | 0.00 | 291.60 | | 0.00 | 291.60 |
| BENZ(GHI)PE | | 24.30 | | 0.00 | 24.30 |
| BENZENE | 2.89 | 29,785.14 | 50,522.02 | 2,616.33 | 82,926.38 |
| BENZO(A)PYRE | 0.00 | 48.60 | | 0.00 | 48.60 |
| BENZO(B)FLUO | 0.00 | 48.60 | | 0.00 | 48.60 |
| BENZO(K)FLUO | | 24.30 | | 0.00 | 24.30 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 6,530.57 | 0.41 | 6,530.98 |
| CADMIUM | 0.00 | 0.56 | | | 0.56 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 43.27 | | | 43.27 |
| CHROMIUM | | 0.01 | 1.63 | | 1.64 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.00 | 122.00 | | 0.00 | 122.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.00 | | 264.96 | | 264.96 |
| DIBENZAHAN | | 24.30 | | 0.00 | 24.30 |
| DIBROMOET,12 | | 2.31 | | | 2.31 |
| DIBUTYL PHTH | | 1,358.10 | | | 1,358.10 |
| DICHLORETH12 | | 23.86 | | | 23.86 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 6,552.63 | 21,846.46 | 1,001.61 | 29,400.70 |
| ETHYLENE OXI | | 659.81 | | | 659.81 |
| FLUORANTHENE | 0.00 | 145.80 | | 0.00 | 145.80 |
| FLUORENE | 0.00 | 170.10 | | | 170.10 |
| FORMALDEHYDE | 75.33 | 55.36 | 23,101.65 | 13,529.04 | 36,761.38 |
| GLYCOL ETHRS | | 1,767.75 | | | 1,767.75 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 48.60 | | 0.00 | 48.60 |
| LEAD | | | 89.59 | | 89.59 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 0.56 | 2.67 | 2.87 | | 6.10 |
| MERCURY | 0.00 | 0.31 | 1.88 | | 2.19 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 12,588.53 | | | 12,588.53 |
| NAPHTHALENE | 0.05 | 6,022.93 | 3,220.75 | 0.00 | 9,243.73 |
| NICKEL | 0.00 | 0.03 | 2.10 | | 2.13 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 48,549.00 | | | 48,549.00 |
| PHENANTHRENE | 0.01 | 5,941.40 | | 0.00 | 5,941.41 |
| PHENOL | | | | 0.08 | 0.08 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 121.50 | | 0.00 | 121.50 |
| STYRENE | | | 13,100.83 | 0.12 | 13,100.96 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 2,815.42 | 58,064.59 | | | 60,880.01 |
| TOLUENE | 8,628.08 | 268,681.71 | 149,132.60 | 4,455.92 | 430,898.31 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 38,955.88 | | | 38,955.88 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 936.15 | | | 936.15 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 424.61 | 42,367.61 | 2,779.48 | 45,571.70 |
| XYLENE,O | | 25,937.29 | 23,222.46 | 1,359.91 | 50,519.66 |
| XYLENE,P | | 424.61 | | | 424.61 |
| XYLENES ISO | 1,122.47 | 59,409.99 | 84,390.44 | 1.59 | 144,924.49 |

# Michigan - Calhoun Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 108.00 | | | 108.00 |
| ACENAPHTHYL | | 1,220.00 | | | 1,220.00 |
| ACETALDEHYDE | | | 29,871.16 | 8,814.75 | 38,685.91 |
| ACROLEIN | | | 4,388.30 | 1.27 | 4,389.57 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | 181.19 | | | | 181.19 |
| ANTHRACENE | | 143.74 | | 0.00 | 143.74 |
| ANTIMONY | 0.77 | | | | 0.77 |
| ARSENIC | 2.49 | 0.01 | 0.20 | | 2.70 |
| ATRAZINE | | 65,652.46 | | | 65,652.46 |
| BENZ(A)ANTHR | 0.00 | 431.22 | | 0.00 | 431.22 |
| BENZ(GHI)PE | | 35.94 | | 0.00 | 35.94 |
| BENZENE | 456.72 | 70,293.47 | 207,370.19 | 3,607.29 | 281,727.67 |
| BENZO(A)PYRE | 0.00 | 71.87 | | 0.00 | 71.87 |
| BENZO(B)FLUO | | 71.87 | | 0.00 | 71.87 |
| BENZO(K)FLUO | | 35.94 | | 0.00 | 35.94 |
| BERYLLIUM | 0.11 | 0.00 | | | 0.11 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 26,804.76 | 3.26 | 26,808.02 |
| CADMIUM | 137.88 | 0.83 | | | 138.72 |
| CARBON TETRA | 0.07 | 0.00 | | | 0.07 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | 0.22 | 138.44 | | | 138.66 |
| CHROMIUM | 106.11 | 0.03 | 4.59 | | 110.74 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | 0.01 | 180.00 | | 0.00 | 180.01 |
| COBALT | 6.52 | | | | 6.52 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 291.35 | | 809.31 | | 1,100.66 |
| DIBENZAHAN | | 35.94 | | 0.00 | 35.94 |
| DIBROMOET,12 | | 8.93 | | | 8.93 |
| DIBUTYL PHTH | | 4,433.20 | | | 4,433.20 |
| DICHLORETH12 | | 92.35 | | | 92.35 |
| DIEYLHEX PHT | 6.89 | | | | 6.89 |
| DIOCTYL PHTH | 6.89 | | | | 6.89 |
| ETHYLBENZENE | 16.29 | 13,071.97 | 87,986.90 | 1,379.88 | 102,455.04 |
| ETHYLENE OXI | | 2,112.84 | | | 2,112.84 |
| FLUORANTHENE | 0.02 | 215.61 | | 0.00 | 215.63 |
| FLUORENE | | 251.55 | | | 251.55 |
| FORMALDEHYDE | 16,054.66 | 177.12 | 77,007.11 | 26,098.99 | 119,337.88 |
| GLYCOL ETHRS | | 5,655.79 | | | 5,655.79 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 71.87 | | 0.00 | 71.87 |
| LEAD | 4,515.39 | | 222.06 | | 4,737.45 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 1,932.71 | 3.95 | 8.38 | | 1,945.04 |
| MERCURY | 8.64 | 1.03 | 3.97 | | 13.64 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 18,454.90 | 40,768.12 | | | 59,223.02 |
| NAPHTHALENE | 105.07 | 16,074.17 | 13,154.48 | 0.69 | 29,334.41 |
| NICKEL | 58.23 | 0.05 | 5.70 | | 63.99 |
| PARATHION | | | | | 0.00 |
| PCBS | 0.17 | | | | 0.17 |
| PCDD | 0.0062 | | | | 0.0062 |
| PCDF | 0.0072 | | | | 0.0072 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 2.90 | 158,404.98 | | | 158,407.88 |
| PHENANTHRENE | | 8,786.20 | | 0.00 | 8,786.20 |
| PHENOL | 2,424.80 | | | 0.46 | 2,425.25 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 179.68 | | 0.00 | 179.68 |
| STYRENE | | | 48,285.38 | 0.27 | 48,285.65 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | 0.0043 | | | | 0.0043 |
| TCE,111 | 0.43 | 188,448.62 | | | 188,449.05 |
| TOLUENE | 8,757.70 | 296,365.08 | 604,947.70 | 6,137.78 | 916,208.25 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 27,105.08 | 127,167.56 | | | 154,272.64 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 812.00 | | | 812.00 |
| VINYL CHLOR | 47.11 | | | | 47.11 |
| XYLENE,M | | 1,386.10 | 173,470.72 | 3,829.87 | 178,686.68 |
| XYLENE,O | | 12,444.37 | 93,933.47 | 1,874.11 | 108,251.95 |
| XYLENE,P | | 1,386.10 | | | 1,386.10 |
| XYLENES ISO | 2,860.38 | 143,993.08 | 341,732.50 | 1.09 | 488,587.06 |

# Michigan - Charlevoix Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.11 | 90.70 | | | 90.81 |
| ACENAPHTHYL | 0.04 | 1,030.00 | | | 1,030.04 |
| ACETALDEHYDE | | | 4,114.00 | 2,878.34 | 6,992.33 |
| ACROLEIN | | | 585.46 | 1.28 | 586.73 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.04 | 120.90 | | 0.00 | 120.94 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 24.84 | 0.00 | 0.03 | | 24.88 |
| ATRAZINE | | 1,167.20 | | | 1,167.20 |
| BENZ(A)ANTHR | 0.00 | 362.71 | | 0.00 | 362.71 |
| BENZ(GHI)PE | | 30.23 | | 0.00 | 30.23 |
| BENZENE | 2,216.58 | 28,548.99 | 23,873.18 | 2,242.25 | 56,881.00 |
| BENZO(A)PYRE | 0.00 | 60.45 | | 0.00 | 60.45 |
| BENZO(B)FLUO | 0.02 | 60.45 | | 0.00 | 60.47 |
| BENZO(K)FLUO | | 30.23 | | 0.00 | 30.23 |
| BERYLLIUM | 2.93 | 0.00 | | | 2.93 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 3,085.89 | 1.22 | 3,087.11 |
| CADMIUM | 1.61 | 0.70 | | | 2.31 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 23.88 | | | 23.88 |
| CHROMIUM | 57.61 | 0.02 | 0.76 | | 58.39 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | 0.00 | 151.00 | | 0.00 | 151.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 8.91 | | 123.00 | | 131.91 |
| DIBENZAHAN | | 30.23 | | 0.00 | 30.23 |
| DIBROMOET,12 | | 1.35 | | | 1.35 |
| DIBUTYL PHTH | | 738.34 | | | 738.34 |
| DICHLORETH12 | | 13.94 | | | 13.94 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.02 | 2,205.95 | 10,317.45 | 858.12 | 13,381.55 |
| ETHYLENE OXI | | 364.31 | | | 364.31 |
| FLUORANTHENE | 0.01 | 181.36 | | 0.00 | 181.37 |
| FLUORENE | 0.01 | 211.58 | | | 211.59 |
| FORMALDEHYDE | 5,615.83 | 30.54 | 10,862.86 | 8,517.21 | 25,026.44 |
| GLYCOL ETHRS | | 975.49 | | | 975.49 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 60.45 | | 0.00 | 60.45 |
| LEAD | 2,498.86 | | 41.65 | | 2,540.51 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 6,176.00 | 3.32 | 1.33 | | 6,180.65 |
| MERCURY | 4.96 | 0.23 | 0.88 | | 6.06 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 6,884.70 | | | 6,884.70 |
| NAPHTHALENE | 3.62 | 4,923.31 | 1,521.68 | 0.02 | 6,448.63 |
| NICKEL | 41.91 | 0.03 | 0.97 | | 42.91 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 7,362.63 | 26,403.16 | | | 33,765.79 |
| PHENANTHRENE | 1.02 | 7,390.31 | | 0.00 | 7,391.33 |
| PHENOL | 0.07 | | | 0.18 | 0.25 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.01 | 151.13 | | 0.00 | 151.14 |
| STYRENE | | | 6,171.62 | 0.30 | 6,171.91 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 31,704.64 | | | 31,704.64 |
| TOLUENE | 0.21 | 52,252.74 | 70,444.96 | 3,817.47 | 126,515.38 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 21,178.06 | | | 21,178.06 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 45.17 | | | 45.17 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 230.83 | 20,018.48 | 2,381.06 | 22,630.37 |
| XYLENE,O | | 4,071.18 | 10,968.48 | 1,165.08 | 16,204.74 |
| XYLENE,P | | 230.83 | | | 230.83 |
| XYLENES ISO | 0.04 | 23,834.41 | 39,861.29 | 1.59 | 63,697.33 |

# Michigan - Cass Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.06 | 107.00 | | | 107.06 |
| ACENAPHTHYL | 0.02 | 1,210.00 | | | 1,210.02 |
| ACETALDEHYDE | | | 11,543.10 | 3,742.59 | 15,285.69 |
| ACROLEIN | | | 1,644.87 | 0.36 | 1,645.23 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.02 | 142.80 | | 0.00 | 142.82 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.00 | 0.00 | 0.10 | | 0.10 |
| ATRAZINE | | 57,219.36 | | | 57,219.36 |
| BENZ(A)ANTHR | 0.00 | 428.41 | | 0.00 | 428.41 |
| BENZ(GHI)PE | | 35.70 | | 0.00 | 35.70 |
| BENZENE | 47.18 | 34,985.79 | 67,531.18 | 2,260.73 | 104,824.88 |
| BENZO(A)PYRE | 0.00 | 71.40 | | 0.00 | 71.40 |
| BENZO(B)FLUO | 0.01 | 71.40 | | 0.00 | 71.41 |
| BENZO(K)FLUO | | 35.70 | | 0.00 | 35.70 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 8,729.20 | 0.60 | 8,729.79 |
| CADMIUM | 0.00 | 0.82 | | | 0.82 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 49.43 | | | 49.43 |
| CHROMIUM | | 0.02 | 2.12 | | 2.15 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.00 | 179.00 | | 0.00 | 179.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.00 | | 346.56 | | 346.57 |
| DIBENZAHAN | | 35.70 | | 0.00 | 35.70 |
| DIBROMOET,12 | | 1.52 | | | 1.52 |
| DIBUTYL PHTH | | 1,576.59 | | | 1,576.59 |
| DICHLORETH12 | | 15.79 | | | 15.79 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.30 | 4,578.00 | 29,156.95 | 865.42 | 34,600.67 |
| ETHYLENE OXI | | 753.55 | | | 753.55 |
| FLUORANTHENE | 0.02 | 214.20 | | 0.00 | 214.22 |
| FLUORENE | 0.00 | 249.90 | | | 249.90 |
| FORMALDEHYDE | 3,164.37 | 63.23 | 30,449.11 | 11,073.92 | 44,750.63 |
| GLYCOL ETHRS | | 2,019.08 | | | 2,019.08 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 71.40 | | 0.00 | 71.40 |
| LEAD | | | 115.98 | | 115.98 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 10.65 | 3.93 | 3.75 | | 18.33 |
| MERCURY | 0.00 | 0.41 | 2.41 | | 2.82 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 11,078.82 | 14,530.63 | | | 25,609.45 |
| NAPHTHALENE | 3.24 | 6,859.02 | 4,303.30 | 0.00 | 11,165.57 |
| NICKEL | 0.01 | 0.04 | 2.73 | | 2.78 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 56,403.67 | | | 56,403.67 |
| PHENANTHRENE | 0.57 | 8,728.78 | | 0.00 | 8,729.35 |
| PHENOL | | | | 0.11 | 0.11 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 178.50 | | 0.00 | 178.50 |
| STYRENE | | | 17,363.52 | 0.17 | 17,363.69 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 20.19 | 67,148.07 | | | 67,168.26 |
| TOLUENE | 22,561.67 | 102,138.33 | 199,147.65 | 3,850.45 | 327,698.10 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 45,277.97 | | | 45,277.97 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 720.45 | | | 720.45 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 493.52 | 56,619.76 | 2,401.08 | 59,514.36 |
| XYLENE,O | | 7,192.58 | 31,003.07 | 1,174.81 | 39,370.46 |
| XYLENE,P | | 493.52 | | | 493.52 |
| XYLENES ISO | 17.75 | 38,516.58 | 112,678.41 | 2.03 | 151,214.78 |

# Michigan - Cheboygan Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.08 | 99.60 | | | 99.68 |
| ACENAPHTHYL | 0.03 | 1,130.00 | | | 1,130.03 |
| ACETALDEHYDE | | | 4,493.28 | 2,249.60 | 6,742.88 |
| ACROLEIN | | | 639.04 | 0.07 | 639.11 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.03 | 132.76 | | 0.00 | 132.79 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.00 | 0.00 | 0.04 | | 0.05 |
| ATRAZINE | | 394.52 | | | 394.52 |
| BENZ(A)ANTHR | 0.00 | 398.27 | | 0.00 | 398.27 |
| BENZ(GHI)PE | | 33.19 | | 0.00 | 33.19 |
| BENZENE | 68.06 | 34,491.82 | 25,977.73 | 5,415.61 | 65,953.21 |
| BENZO(A)PYRE | 0.00 | 66.38 | | 0.00 | 66.38 |
| BENZO(B)FLUO | 0.01 | 66.38 | | 0.00 | 66.39 |
| BENZO(K)FLUO | | 33.19 | | 0.00 | 33.19 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 3,357.93 | 0.13 | 3,358.06 |
| CADMIUM | 0.01 | 0.76 | | | 0.77 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 23.21 | | | 23.21 |
| CHROMIUM | 0.05 | 0.02 | 0.83 | | 0.91 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.00 | 166.00 | | 0.00 | 166.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.01 | | 132.96 | | 132.97 |
| DIBENZAHAN | | 33.19 | | 0.00 | 33.19 |
| DIBROMOET,12 | | 2.38 | | | 2.38 |
| DIBUTYL PHTH | | 729.27 | | | 729.27 |
| DICHLORETH12 | | 24.62 | | | 24.62 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.01 | 2,128.83 | 11,231.66 | 2,073.38 | 15,433.88 |
| ETHYLENE OXI | | 354.26 | | | 354.26 |
| FLUORANTHENE | 0.01 | 199.14 | | 0.00 | 199.15 |
| FLUORENE | 0.00 | 232.32 | | | 232.32 |
| FORMALDEHYDE | 3,888.80 | 29.71 | 11,869.63 | 6,656.14 | 22,444.28 |
| GLYCOL ETHRS | | 948.53 | | | 948.53 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 66.38 | | 0.00 | 66.38 |
| LEAD | 0.19 | | 45.85 | | 46.04 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 9.24 | 3.65 | 1.46 | | 14.36 |
| MERCURY | 0.00 | 0.36 | 0.96 | | 1.33 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 6,757.73 | | | 6,757.73 |
| NAPHTHALENE | 2.49 | 5,620.58 | 1,656.00 | 0.00 | 7,279.07 |
| NICKEL | 0.02 | 0.04 | 1.07 | | 1.14 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 26,069.16 | | | 26,069.16 |
| PHENANTHRENE | 0.71 | 8,114.76 | | 0.00 | 8,115.47 |
| PHENOL | | | | 0.03 | 0.03 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 165.95 | | 0.00 | 165.95 |
| STYRENE | | | 6,730.92 | 0.04 | 6,730.96 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 7.54 | 31,172.52 | | | 31,180.06 |
| TOLUENE | 28.23 | 51,009.92 | 76,674.98 | 9,222.22 | 136,935.35 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 20,918.38 | | | 20,918.38 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 58.28 | | | 58.28 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 228.00 | 21,784.40 | 5,755.59 | 27,768.00 |
| XYLENE,O | | 3,255.12 | 11,939.26 | 2,815.93 | 18,010.31 |
| XYLENE,P | | 228.00 | | | 228.00 |
| XYLENES ISO | 6.40 | 28,935.83 | 43,388.18 | 0.51 | 72,330.92 |

# Michigan - Chippewa Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.00 | 109.00 | | | 109.00 |
| ACENAPHTHYL | 0.00 | 1,240.00 | | | 1,240.00 |
| ACETALDEHYDE | | | 5,629.58 | 3,567.37 | 9,196.95 |
| ACROLEIN | | | 801.94 | 0.32 | 802.26 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.00 | 145.33 | | 0.00 | 145.33 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 21.14 | 0.00 | 0.05 | | 21.19 |
| ATRAZINE | | 60.30 | | | 60.30 |
| BENZ(A)ANTHR | 0.01 | 435.99 | | 0.00 | 436.00 |
| BENZ(GHI)PE | | 36.33 | | 0.00 | 36.33 |
| BENZENE | 2.78 | 41,170.57 | 32,867.86 | 7,731.57 | 81,772.78 |
| BENZO(A)PYRE | 0.00 | 72.67 | | 0.00 | 72.67 |
| BENZO(B)FLUO | 0.00 | 72.67 | | 0.00 | 72.67 |
| BENZO(K)FLUO | | 36.33 | | 0.00 | 36.33 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 4,248.56 | 0.33 | 4,248.89 |
| CADMIUM | 1.68 | 0.84 | | | 2.52 |
| CARBON TETRA | 0.00 | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | 0.00 | 37.57 | | | 37.57 |
| CHROMIUM | 0.00 | 0.02 | 1.04 | | 1.06 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.02 | 182.00 | | 0.00 | 182.02 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.00 | | 167.14 | | 167.14 |
| DIBENZAHAN | | 36.33 | | 0.00 | 36.33 |
| DIBROMOET,12 | 0.00 | 3.34 | | | 3.34 |
| DIBUTYL PHTH | | 1,182.15 | | | 1,182.15 |
| DICHLORETH12 | 0.00 | 34.44 | | | 34.44 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.00 | 3,423.69 | 14,194.87 | 2,960.00 | 20,578.55 |
| ETHYLENE OXI | | 573.00 | | | 573.00 |
| FLUORANTHENE | 0.06 | 218.00 | | 0.00 | 218.06 |
| FLUORENE | 0.00 | 254.33 | | | 254.33 |
| FORMALDEHYDE | 202.36 | 48.08 | 14,853.74 | 10,555.24 | 25,659.42 |
| GLYCOL ETHRS | | 1,535.00 | | | 1,535.00 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 72.67 | | 0.00 | 72.67 |
| LEAD | 13.98 | | 56.80 | | 70.78 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 0.42 | 4.00 | 1.83 | | 6.25 |
| MERCURY | 0.00 | 0.30 | 1.18 | | 1.48 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 0.00 | 10,947.06 | | | 10,947.06 |
| NAPHTHALENE | 0.11 | 7,248.08 | 2,094.61 | 0.00 | 9,342.80 |
| NICKEL | 0.00 | 0.04 | 1.33 | | 1.38 |
| PARATHION | | | | | 0.00 |
| PCBS | 0.00 | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 0.00 | 42,256.84 | | | 42,256.84 |
| PHENANTHRENE | 0.03 | 8,883.39 | | 0.00 | 8,883.42 |
| PHENOL | | | | 0.05 | 0.05 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 181.66 | | 0.00 | 181.66 |
| STYRENE | | | 8,464.48 | 0.08 | 8,464.57 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 2.20 | 50,506.54 | | | 50,508.74 |
| TOLUENE | 6.10 | 76,497.54 | 96,944.10 | 13,165.67 | 186,613.42 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 0.00 | 33,909.07 | | | 33,909.07 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 181.74 | | | 181.74 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | 0.00 | 369.60 | 27,558.28 | 8,216.90 | 36,144.78 |
| XYLENE,O | 0.00 | 3,925.93 | 15,092.87 | 4,020.14 | 23,038.94 |
| XYLENE,P | 0.00 | 369.60 | | | 369.60 |
| XYLENES ISO | 1.87 | 43,881.18 | 54,852.44 | 0.57 | 98,736.06 |

# Michigan - Clare Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 89.50 | | | 89.50 |
| ACENAPHTHYL | | 1,010.00 | | | 1,010.00 |
| ACETALDEHYDE | | | 5,940.66 | 2,186.04 | 8,126.71 |
| ACROLEIN | | | 844.28 | | 844.28 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 119.39 | | | 119.39 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.05 | | 0.05 |
| ATRAZINE | | 3,095.87 | | | 3,095.87 |
| BENZ(A)ANTHR | | 358.16 | | | 358.16 |
| BENZ(GHI)PE | | 29.85 | | | 29.85 |
| BENZENE | | 31,068.53 | 34,196.71 | 2,129.54 | 67,394.78 |
| BENZO(A)PYRE | | 59.69 | | | 59.69 |
| BENZO(B)FLUO | | 59.69 | | | 59.69 |
| BENZO(K)FLUO | | 29.85 | | | 29.85 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 4,420.33 | | 4,420.33 |
| CADMIUM | | 0.69 | | | 0.69 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 28.77 | | | 28.77 |
| CHROMIUM | | 0.01 | 1.11 | | 1.12 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 149.00 | | | 149.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 179.55 | | 179.55 |
| DIBENZAHAN | | 29.85 | | | 29.85 |
| DIBROMOET,12 | | 2.03 | | | 2.03 |
| DIBUTYL PHTH | | 902.94 | | | 902.94 |
| DICHLORETH12 | | 20.83 | | | 20.83 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 2,592.87 | 14,793.38 | 815.31 | 18,201.56 |
| ETHYLENE OXI | | 438.80 | | | 438.80 |
| FLUORANTHENE | | 179.08 | | | 179.08 |
| FLUORENE | | 208.93 | | | 208.93 |
| FORMALDEHYDE | | 36.81 | 15,701.28 | 6,467.98 | 22,206.07 |
| GLYCOL ETHRS | | 1,175.20 | | | 1,175.20 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 59.69 | | | 59.69 |
| LEAD | 0.00 | | 61.10 | | 61.10 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 3.28 | 1.95 | | 5.23 |
| MERCURY | 4.11 | 0.39 | 1.28 | | 5.78 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 8,369.26 | | | 8,369.26 |
| NAPHTHALENE | | 5,501.10 | 2,180.27 | | 7,681.37 |
| NICKEL | | 0.03 | 1.43 | | 1.46 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 32,277.74 | | | 32,277.74 |
| PHENANTHRENE | | 7,297.54 | | | 7,297.54 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 149.23 | | | 149.23 |
| STYRENE | | | 8,887.87 | | 8,887.87 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 38,603.48 | | | 38,603.48 |
| TOLUENE | | 57,005.41 | 100,969.58 | 3,626.31 | 161,601.30 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 25,899.82 | | | 25,899.82 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 89.25 | | | 89.25 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 282.30 | 28,678.85 | 2,263.40 | 31,224.55 |
| XYLENE,O | | 3,421.53 | 15,723.66 | 1,107.36 | 20,252.56 |
| XYLENE,P | | 282.30 | | | 282.30 |
| XYLENES ISO | | 30,516.15 | 57,138.33 | | 87,654.48 |

# Michigan - Clinton Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 66.30 | | | 66.30 |
| ACENAPHTHYL | | 751.00 | | | 751.00 |
| ACETALDEHYDE | | | 12,538.07 | 7,734.21 | 20,272.28 |
| ACROLEIN | | | 1,790.05 | 3.02 | 1,793.07 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 88.38 | | 0.00 | 88.38 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.00 | 0.00 | 0.10 | | 0.11 |
| ATRAZINE | | 49,331.52 | | | 49,331.52 |
| BENZ(A)ANTHR | | 265.15 | | 0.00 | 265.15 |
| BENZ(GHI)PE | | 22.10 | | 0.00 | 22.10 |
| BENZENE | 28.18 | 27,636.35 | 74,192.15 | 1,992.28 | 103,848.96 |
| BENZO(A)PYRE | | 44.19 | | 0.00 | 44.19 |
| BENZO(B)FLUO | | 44.19 | | 0.00 | 44.19 |
| BENZO(K)FLUO | | 22.10 | | 0.00 | 22.10 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 9,590.20 | 4.80 | 9,595.00 |
| CADMIUM | 0.00 | 0.51 | | | 0.51 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 62.29 | | | 62.29 |
| CHROMIUM | | 0.01 | 2.29 | | 2.30 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | | 110.00 | | 0.00 | 110.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.00 | | 375.40 | | 375.40 |
| DIBENZAHAN | | 22.10 | | 0.00 | 22.10 |
| DIBROMOET,12 | | 2.05 | | | 2.05 |
| DIBUTYL PHTH | | 1,972.90 | | | 1,972.90 |
| DICHLORETH12 | | 21.27 | | | 21.27 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 5,680.06 | 32,000.73 | 761.26 | 38,442.05 |
| ETHYLENE OXI | | 949.67 | | | 949.67 |
| FLUORANTHENE | 0.01 | 132.58 | | 0.00 | 132.59 |
| FLUORENE | | 154.67 | | | 154.67 |
| FORMALDEHYDE | | 79.70 | 33,027.62 | 22,899.69 | 56,007.01 |
| GLYCOL ETHRS | | 2,544.91 | | | 2,544.91 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 44.19 | | 0.00 | 44.19 |
| LEAD | 0.00 | | 124.33 | | 124.33 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 12.81 | 2.43 | 4.05 | | 19.29 |
| MERCURY | 0.00 | 0.25 | 2.57 | | 2.83 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 18,221.96 | | | 18,221.96 |
| NAPHTHALENE | | 6,922.64 | 4,726.62 | 0.57 | 11,649.83 |
| NICKEL | 0.01 | 0.02 | 2.93 | | 2.96 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 70,512.38 | | | 70,512.38 |
| PHENANTHRENE | | 5,402.48 | | 0.00 | 5,402.48 |
| PHENOL | | | | 0.72 | 0.72 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 110.48 | | 0.00 | 110.48 |
| STYRENE | | | 18,977.11 | 0.79 | 18,977.90 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 33.30 | 84,130.53 | | | 84,163.83 |
| TOLUENE | 92.21 | 116,709.47 | 218,660.58 | 3,388.66 | 338,850.93 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 171,889.34 | 56,592.04 | | | 228,481.38 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 1,631.96 | | | 1,631.96 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 616.84 | 62,196.94 | 2,109.49 | 64,923.27 |
| XYLENE,O | | 5,990.61 | 34,036.76 | 1,032.63 | 41,060.00 |
| XYLENE,P | | 616.84 | | | 616.84 |
| XYLENES ISO | 28.18 | 54,058.49 | 123,704.77 | 5.28 | 177,796.72 |

# Michigan - Crawford Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 1.09 | 48.20 | | | 49.29 |
| ACENAPHTHYL | 14.13 | 546.00 | | | 560.13 |
| ACETALDEHYDE | 963.42 | | 3,284.43 | 1,978.76 | 6,226.62 |
| ACROLEIN | 1.28 | | 466.57 | | 467.85 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 12.20 | 64.25 | | | 76.45 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.26 | 0.00 | 0.03 | | 0.29 |
| ATRAZINE | | 0.00 | | | 0.00 |
| BENZ(A)ANTHR | 0.58 | 192.74 | | | 193.32 |
| BENZ(GHI)PE | 0.39 | 16.06 | | | 16.45 |
| BENZENE | 1,191.15 | 16,553.57 | 18,852.76 | 4,480.87 | 41,078.35 |
| BENZO(A)PYRE | 0.06 | 32.12 | | | 32.18 |
| BENZO(B)FLUO | | 32.12 | | | 32.12 |
| BENZO(K)FLUO | | 16.06 | | | 16.06 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 2,436.94 | | 2,436.94 |
| CADMIUM | 0.05 | 0.37 | | | 0.42 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 13.79 | | | 13.79 |
| CHROMIUM | 0.39 | 0.01 | 0.61 | | 1.01 |
| CHROMIUM VI | 0.14 | | | | 0.14 |
| CHRYSENE | 13.81 | 80.30 | | | 94.11 |
| COBALT | 0.39 | | | | 0.39 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.57 | | 97.28 | | 97.85 |
| DIBENZAHAN | | 16.06 | | | 16.06 |
| DIBROMOET,12 | | 1.07 | | | 1.07 |
| DIBUTYL PHTH | | 430.22 | | | 430.22 |
| DICHLORETH12 | 2.70 | 11.09 | | | 13.79 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 1,228.50 | 8,158.57 | 1,715.53 | 11,102.60 |
| ETHYLENE OXI | | 210.57 | | | 210.57 |
| FLUORANTHENE | 28.90 | 96.37 | | | 125.27 |
| FLUORENE | 3.08 | 112.43 | | | 115.51 |
| FORMALDEHYDE | 79,227.33 | 17.64 | 8,683.75 | 5,854.69 | 93,783.41 |
| GLYCOL ETHRS | | 563.28 | | | 563.28 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.11 | 32.12 | | | 32.23 |
| LEAD | 0.00 | | 33.72 | | 33.72 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 26.76 | 1.77 | 1.07 | | 29.60 |
| MERCURY | 2.61 | 0.19 | 0.71 | | 3.51 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 3,997.06 | | | 3,997.06 |
| NAPHTHALENE | 738.62 | 2,846.39 | 1,202.10 | | 4,787.12 |
| NICKEL | 1.68 | 0.02 | 0.78 | | 2.49 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.4065 | | | | 0.4065 |
| PCDF | 0.0137 | | | | 0.0137 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 15,381.30 | | | 15,381.30 |
| PHENANTHRENE | 18.31 | 3,927.07 | | | 3,945.38 |
| PHENOL | 125.24 | | | | 125.24 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 5.36 | 80.31 | | | 85.67 |
| STYRENE | | | 4,909.69 | | 4,909.69 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 18,424.82 | | | 18,424.82 |
| TOLUENE | 800.00 | 26,751.53 | 55,677.62 | 7,630.28 | 90,859.43 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 12,340.19 | | | 12,340.19 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 0.00 | | | 0.00 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 134.50 | 15,811.52 | 4,762.52 | 20,708.54 |
| XYLENE,O | | 1,593.15 | 8,671.00 | 2,330.05 | 12,594.20 |
| XYLENE,P | | 134.50 | | | 134.50 |
| XYLENES ISO | | 15,080.26 | 31,508.69 | | 46,588.95 |

# Michigan - Delta Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 4.13 | 134.00 | | | 138.13 |
| ACENAPHTHYL | 53.15 | 1,520.00 | | | 1,573.15 |
| ACETALDEHYDE | 3,659.80 | | 5,602.75 | 4,024.39 | 13,286.94 |
| ACROLEIN | 4.83 | | 798.70 | 0.04 | 803.57 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 45.90 | 179.30 | | 0.00 | 225.20 |
| ANTIMONY | 0.00 | | | | 0.00 |
| ARSENIC | 40.99 | 0.00 | 0.05 | | 41.04 |
| ATRAZINE | | 358.34 | | | 358.34 |
| BENZ(A)ANTHR | 2.17 | 537.89 | | 0.00 | 540.06 |
| BENZ(GHI)PE | 1.45 | 44.82 | | 0.00 | 46.27 |
| BENZENE | 4,370.48 | 43,539.90 | 32,853.97 | 17,919.37 | 98,683.72 |
| BENZO(A)PYRE | 0.23 | 89.65 | | 0.00 | 89.88 |
| BENZO(B)FLUO | 0.00 | 89.65 | | 0.00 | 89.65 |
| BENZO(K)FLUO | | 44.82 | | 0.00 | 44.82 |
| BERYLLIUM | 0.01 | 0.00 | | | 0.01 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 4,246.76 | 0.20 | 4,246.96 |
| CADMIUM | 6.91 | 1.03 | | | 7.94 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 38.58 | | | 38.58 |
| CHROMIUM | 75.98 | 0.02 | 1.02 | | 77.02 |
| CHROMIUM VI | 16.76 | | | | 16.76 |
| CHRYSENE | 51.94 | 224.00 | | 0.00 | 275.94 |
| COBALT | 47.37 | | | | 47.37 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 69.26 | | 165.61 | | 234.87 |
| DIBENZAHAN | | 44.82 | | 0.00 | 44.82 |
| DIBROMOET,12 | | 2.26 | | | 2.26 |
| DIBUTYL PHTH | 0.00 | 1,228.19 | | | 1,228.19 |
| DICHLORETH12 | | 23.34 | | | 23.34 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.84 | 3,477.12 | 14,182.27 | 6,860.54 | 24,520.78 |
| ETHYLENE OXI | | 588.40 | | | 588.40 |
| FLUORANTHENE | 108.71 | 268.95 | | 0.00 | 377.66 |
| FLUORENE | 11.60 | 313.77 | | | 325.37 |
| FORMALDEHYDE | 9,657.00 | 49.36 | 14,775.11 | 11,907.40 | 36,388.87 |
| GLYCOL ETHRS | | 1,576.27 | | | 1,576.27 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.41 | 89.65 | | 0.00 | 90.06 |
| LEAD | 145.45 | | 55.89 | | 201.35 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 3,245.91 | 4.93 | 1.80 | | 3,252.64 |
| MERCURY | 8.00 | 0.24 | 1.17 | | 9.40 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 11,321.18 | | | 11,321.18 |
| NAPHTHALENE | 2,817.30 | 7,622.79 | 2,093.47 | 0.00 | 12,533.56 |
| NICKEL | 204.38 | 0.05 | 1.31 | | 205.74 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0159 | | | | 0.0159 |
| PCDF | 0.0644 | | | | 0.0644 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 43,891.40 | | | 43,891.40 |
| PHENANTHRENE | 69.08 | 10,959.56 | | 0.00 | 11,028.64 |
| PHENOL | 470.99 | | | 0.04 | 471.03 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 20.17 | 224.12 | | 0.00 | 244.29 |
| STYRENE | | | 8,439.56 | 0.07 | 8,439.63 |
| TCDD,2378 | 0.00 | | | | 0.00 |
| TCDF,2378 | 65.94 | | | | 65.94 |
| TCE,111 | 17.36 | 52,298.16 | | | 52,315.52 |
| TOLUENE | 53.38 | 77,750.64 | 96,875.21 | 30,514.74 | 205,193.97 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 35,230.88 | | | 35,230.88 |
| TRICLPHN,245 | | | | | 0.0000 |
| TRICLPHN,246 | | | | | 0.0000 |
| TRIFLURALIN | | 81.28 | | | 81.28 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 384.01 | 27,544.97 | 19,044.91 | 46,973.89 |
| XYLENE,O | | 5,416.54 | 15,081.13 | 9,317.71 | 29,815.38 |
| XYLENE,P | | 384.01 | | | 384.01 |
| XYLENES ISO | 19.21 | 38,543.29 | 54,811.06 | 1.09 | 93,374.66 |

# Michigan - Dickinson Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 1.59 | 51.10 | | | 52.69 |
| ACENAPHTHYL | 19.66 | 579.00 | | | 598.66 |
| ACETALDEHYDE | 1,367.01 | | 3,028.35 | 2,269.64 | 6,665.00 |
| ACROLEIN | 1.78 | | 432.81 | 0.01 | 434.61 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 16.98 | 68.15 | | 0.00 | 85.13 |
| ANTIMONY | 0.02 | | | | 0.02 |
| ARSENIC | 1.66 | 0.00 | 0.02 | | 1.69 |
| ATRAZINE | | 230.86 | | | 230.86 |
| BENZ(A)ANTHR | 0.80 | 204.45 | | 0.00 | 205.25 |
| BENZ(GHI)PE | 0.54 | 17.04 | | 0.00 | 17.58 |
| BENZENE | 2,353.24 | 18,376.79 | 18,030.23 | 10,466.87 | 49,227.13 |
| BENZO(A)PYRE | 0.09 | 34.07 | | 0.00 | 34.16 |
| BENZO(B)FLUO | 0.01 | 34.07 | | 0.00 | 34.08 |
| BENZO(K)FLUO | | 17.04 | | 0.00 | 17.04 |
| BERYLLIUM | 0.07 | 0.00 | | | 0.07 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 2,330.62 | 0.07 | 2,330.69 |
| CADMIUM | 0.30 | 0.39 | | | 0.69 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 26.90 | | | 26.90 |
| CHROMIUM | 12.62 | 0.01 | 0.54 | | 13.17 |
| CHROMIUM VI | 2.59 | | | | 2.59 |
| CHRYSENE | 19.18 | 85.20 | | 0.00 | 104.38 |
| COBALT | 1.60 | | | | 1.60 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 13.62 | | 86.39 | | 100.01 |
| DIBENZAHAN | | 17.04 | | 0.00 | 17.04 |
| DIBROMOET,12 | | 1.14 | | | 1.14 |
| DIBUTYL PHTH | 0.00 | 858.22 | | | 858.22 |
| DICHLORETH12 | | 11.87 | | | 11.87 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 2,366.68 | 7,768.47 | 4,007.31 | 14,142.46 |
| ETHYLENE OXI | | 410.28 | | | 410.28 |
| FLUORANTHENE | 40.16 | 102.22 | | 0.00 | 142.38 |
| FLUORENE | 4.29 | 119.26 | | | 123.55 |
| FORMALDEHYDE | 19,516.01 | 34.40 | 7,971.17 | 6,715.39 | 34,236.98 |
| GLYCOL ETHRS | | 1,098.73 | | | 1,098.73 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.15 | 34.07 | | 0.00 | 34.22 |
| LEAD | 5,021.44 | | 29.33 | | 5,050.77 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 2,136.13 | 1.87 | 0.95 | | 2,138.95 |
| MERCURY | 3.01 | 0.32 | 0.61 | | 3.94 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 7,903.16 | | | 7,903.16 |
| NAPHTHALENE | 1,028.32 | 3,801.09 | 1,148.30 | 0.00 | 5,977.71 |
| NICKEL | 8.62 | 0.02 | 0.69 | | 9.34 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0248 | | | | 0.0248 |
| PCDF | 0.0570 | | | | 0.0570 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 30,668.27 | | | 30,668.27 |
| PHENANTHRENE | 26.08 | 4,165.61 | | 0.00 | 4,191.69 |
| PHENOL | 174.00 | | | 0.02 | 174.02 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 7.45 | 85.19 | | 0.00 | 92.64 |
| STYRENE | | | 4,582.28 | 0.02 | 4,582.31 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | 20.7325 | | | | 20.7325 |
| TCE,111 | 11.54 | 36,518.36 | | | 36,529.90 |
| TOLUENE | 31.96 | 46,476.41 | 53,100.65 | 17,823.81 | 117,432.83 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 24,618.40 | | | 24,618.40 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 30.81 | | | 30.81 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 268.34 | 15,112.75 | 11,124.50 | 26,505.59 |
| XYLENE,O | | 2,354.15 | 8,263.91 | 5,442.64 | 16,060.70 |
| XYLENE,P | | 268.34 | | | 268.34 |
| XYLENES ISO | 9.77 | 24,175.27 | 30,039.26 | 0.39 | 54,224.68 |

# Michigan - Eaton Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 84.30 | | | 84.30 |
| ACENAPHTHYL | | 956.00 | | | 956.00 |
| ACETALDEHYDE | | | 18,660.17 | 7,511.80 | 26,171.98 |
| ACROLEIN | | | 2,700.44 | 0.09 | 2,700.53 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 112.45 | | 0.00 | 112.45 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 59.20 | 0.00 | 0.14 | | 59.35 |
| ATRAZINE | | 52,747.83 | | | 52,747.83 |
| BENZ(A)ANTHR | 0.00 | 337.35 | | 0.00 | 337.35 |
| BENZ(GHI)PE | | 28.11 | | 0.00 | 28.11 |
| BENZENE | 11.07 | 39,899.12 | 119,419.00 | 2,260.75 | 161,589.94 |
| BENZO(A)PYRE | 0.00 | 56.22 | | 0.00 | 56.22 |
| BENZO(B)FLUO | | 56.22 | | 0.00 | 56.22 |
| BENZO(K)FLUO | | 28.11 | | 0.00 | 28.11 |
| BERYLLIUM | 7.01 | 0.00 | | | 7.01 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 15,436.23 | 0.18 | 15,436.40 |
| CADMIUM | 3.84 | 0.65 | | | 4.50 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 99.47 | | | 99.47 |
| CHROMIUM | 122.04 | 0.01 | 3.18 | | 125.23 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.00 | 141.00 | | 0.00 | 141.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.00 | | 537.78 | | 537.78 |
| DIBENZAHAN | | 28.11 | | 0.00 | 28.11 |
| DIBROMOET,12 | | 3.83 | | | 3.83 |
| DIBUTYL PHTH | | 3,148.32 | | | 3,148.32 |
| DICHLORETH12 | | 39.86 | | | 39.86 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 8,713.52 | 51,093.10 | 865.51 | 60,672.14 |
| ETHYLENE OXI | | 1,516.59 | | | 1,516.59 |
| FLUORANTHENE | 0.00 | 168.67 | | 0.00 | 168.67 |
| FLUORENE | | 196.79 | | | 196.79 |
| FORMALDEHYDE | 3.42 | 127.26 | 48,660.72 | 22,225.79 | 71,017.19 |
| GLYCOL ETHRS | | 4,063.63 | | | 4,063.63 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 56.22 | | 0.00 | 56.22 |
| LEAD | 40.00 | | 164.17 | | 204.17 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 141.50 | 3.09 | 5.70 | | 150.29 |
| MERCURY | 138.62 | 0.53 | 3.20 | | 142.35 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 29,085.41 | | | 29,085.41 |
| NAPHTHALENE | 0.02 | 10,620.57 | 7,591.95 | 0.00 | 18,212.55 |
| NICKEL | 100.40 | 0.04 | 4.02 | | 104.45 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 112,524.24 | | | 112,524.24 |
| PHENANTHRENE | | 6,873.47 | | 0.00 | 6,873.47 |
| PHENOL | | | | 0.03 | 0.03 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 140.56 | | 0.00 | 140.56 |
| STYRENE | | | 29,199.52 | 0.05 | 29,199.57 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 13.08 | 134,278.15 | | | 134,291.23 |
| TOLUENE | 36.23 | 157,159.55 | 350,193.71 | 3,850.03 | 511,239.52 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 90,308.66 | | | 90,308.66 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 1,137.30 | | | 1,137.30 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 984.34 | 100,006.60 | 2,402.28 | 103,393.23 |
| XYLENE,O | | 5,389.00 | 54,446.62 | 1,175.34 | 61,010.96 |
| XYLENE,P | | 984.34 | | | 984.34 |
| XYLENES ISO | 11.07 | 85,506.13 | 197,968.28 | 0.69 | 283,486.17 |

# Michigan - Emmet Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.07 | 106.00 | | | 106.07 |
| ACENAPHTHYL | 0.87 | 1,200.00 | | | 1,200.87 |
| ACETALDEHYDE | 59.28 | | 5,209.17 | 3,451.01 | 8,719.45 |
| ACROLEIN | 0.08 | | 740.84 | 0.85 | 741.77 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.75 | 141.00 | | 0.00 | 141.75 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 1.74 | 0.00 | 0.04 | | 1.78 |
| ATRAZINE | | 863.98 | | | 863.98 |
| BENZ(A)ANTHR | 0.04 | 422.99 | | 0.00 | 423.03 |
| BENZ(GHI)PE | 0.02 | 35.25 | | 0.00 | 35.27 |
| BENZENE | 71.14 | 32,314.61 | 30,114.38 | 1,397.93 | 63,898.05 |
| BENZO(A)PYRE | 0.00 | 70.50 | | 0.00 | 70.50 |
| BENZO(B)FLUO | | 70.50 | | 0.00 | 70.50 |
| BENZO(K)FLUO | | 35.25 | | 0.00 | 35.25 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 3,892.64 | 0.81 | 3,893.45 |
| CADMIUM | 0.34 | 0.81 | | | 1.15 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 28.13 | | | 28.13 |
| CHROMIUM | 2.57 | 0.02 | 0.97 | | 3.56 |
| CHROMIUM VI | 0.91 | | | | 0.91 |
| CHRYSENE | 0.85 | 176.00 | | 0.00 | 176.85 |
| COBALT | 2.57 | | | | 2.57 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 3.75 | | 155.46 | | 159.22 |
| DIBENZAHAN | | 35.25 | | 0.00 | 35.25 |
| DIBROMOET,12 | | 1.29 | | | 1.29 |
| DIBUTYL PHTH | | 880.96 | | | 880.96 |
| DICHLORETH12 | | 13.42 | | | 13.42 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 2,464.84 | 13,019.45 | 534.98 | 16,019.26 |
| ETHYLENE OXI | | 429.09 | | | 429.09 |
| FLUORANTHENE | 1.78 | 211.49 | | 0.00 | 213.27 |
| FLUORENE | 0.19 | 246.74 | | | 246.93 |
| FORMALDEHYDE | 130.42 | 35.98 | 13,760.87 | 10,211.30 | 24,138.56 |
| GLYCOL ETHRS | | 1,149.17 | | | 1,149.17 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.01 | 70.50 | | 0.00 | 70.51 |
| LEAD | 8.79 | | 53.16 | | 61.95 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 175.86 | 3.88 | 1.70 | | 181.44 |
| MERCURY | 0.13 | 0.34 | 1.11 | | 1.58 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 8,172.80 | | | 8,172.80 |
| NAPHTHALENE | 45.45 | 5,639.95 | 1,919.66 | 0.01 | 7,605.07 |
| NICKEL | 11.07 | 0.04 | 1.24 | | 12.35 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0002 | | | | 0.0002 |
| PCDF | 0.0010 | | | | 0.0010 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 31,493.63 | | | 31,493.63 |
| PHENANTHRENE | 1.13 | 8,618.34 | | 0.00 | 8,619.47 |
| PHENOL | 7.71 | | | 0.12 | 7.83 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.33 | 176.24 | | 0.00 | 176.57 |
| STYRENE | | | 7,799.81 | 0.19 | 7,800.00 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | 1.0789 | | | | 1.0789 |
| TCE,111 | | 37,688.24 | | | 37,688.24 |
| TOLUENE | | 52,189.02 | 88,880.81 | 2,379.91 | 143,449.75 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 25,269.22 | | | 25,269.22 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 54.99 | | | 54.99 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 275.43 | 25,253.07 | 1,484.43 | 27,012.93 |
| XYLENE,O | | 3,908.52 | 13,839.64 | 726.35 | 18,474.51 |
| XYLENE,P | | 275.43 | | | 275.43 |
| XYLENES ISO | | 25,662.06 | 50,295.14 | 0.99 | 75,958.19 |

# Michigan - Genesee Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.84 | 105.00 | | | 105.84 |
| ACENAPHTHYL | 10.87 | 1,190.00 | | | 1,200.87 |
| ACETALDEHYDE | 741.40 | | 113,005.34 | 18,688.06 | 132,434.80 |
| ACROLEIN | 0.99 | | 16,729.90 | 1.13 | 16,732.02 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | 343.76 | | | | 343.76 |
| ANTHRACENE | 9.39 | 140.42 | | 0.00 | 149.81 |
| ANTIMONY | 1.17 | | | | 1.17 |
| ARSENIC | 40.78 | 0.02 | 0.76 | | 41.56 |
| ATRAZINE | | 32,970.95 | | | 32,970.95 |
| BENZ(A)ANTHR | 0.44 | 421.25 | | 0.00 | 421.70 |
| BENZ(GHI)PE | 0.30 | 35.10 | | 0.00 | 35.40 |
| BENZENE | 1,139.85 | 139,184.48 | 816,355.17 | 7,772.28 | 964,451.79 |
| BENZO(A)PYRE | 0.05 | 70.21 | | 0.00 | 70.26 |
| BENZO(B)FLUO | | 70.21 | | 0.00 | 70.21 |
| BENZO(K)FLUO | | 35.10 | | 0.00 | 35.10 |
| BERYLLIUM | 0.30 | 0.00 | | | 0.30 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 105,522.27 | 1.30 | 105,523.57 |
| CADMIUM | 8.90 | 0.82 | | | 9.71 |
| CARBON TETRA | 0.23 | 0.00 | | | 0.23 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | 0.70 | 431.39 | | | 432.09 |
| CHROMIUM | 299.89 | 0.04 | 17.09 | | 317.02 |
| CHROMIUM VI | 0.36 | | | | 0.36 |
| CHRYSENE | 10.63 | 176.00 | | 0.00 | 186.63 |
| COBALT | 1.44 | | | | 1.44 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 4.16 | | 3,103.45 | | 3,107.60 |
| DIBENZAHAN | | 35.10 | | 0.00 | 35.10 |
| DIBROMOET,12 | 0.00 | 23.42 | | | 23.43 |
| DIBUTYL PHTH | | 13,775.70 | | | 13,775.70 |
| DICHLORETH12 | 1.26 | 243.02 | | | 244.28 |
| DIEYLHEX PHT | 11.25 | | | | 11.25 |
| DIOCTYL PHTH | 0.89 | | | | 0.89 |
| ETHYLBENZENE | 12.15 | 41,414.17 | 345,442.07 | 2,975.36 | 389,843.75 |
| ETHYLENE OXI | | 6,576.97 | | | 6,576.97 |
| FLUORANTHENE | 22.25 | 210.63 | | 0.00 | 232.88 |
| FLUORENE | 2.37 | 245.73 | | | 248.10 |
| FORMALDEHYDE | 2,092.32 | 551.90 | 289,577.70 | 55,294.54 | 347,516.46 |
| GLYCOL ETHRS | | 17,623.45 | | | 17,623.45 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.08 | 70.21 | | 0.00 | 70.29 |
| LEAD | 256.84 | | 787.57 | | 1,044.42 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 152.10 | 3.86 | 31.56 | | 187.52 |
| MERCURY | 13.13 | 2.23 | 13.11 | | 28.47 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 14,549.68 | 126,821.01 | | | 141,370.69 |
| NAPHTHALENE | 2,552.37 | 41,083.30 | 51,753.30 | 0.02 | 95,388.98 |
| NICKEL | 28.02 | 0.07 | 20.97 | | 49.06 |
| PARATHION | | | | | 0.00 |
| PCBS | 0.60 | | | | 0.60 |
| PCDD | 0.3221 | | | | 0.3221 |
| PCDF | 0.1452 | | | | 0.1452 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 1,465.91 | 571,414.48 | | | 572,880.39 |
| PHENANTHRENE | 106.56 | 8,583.00 | | 0.00 | 8,689.56 |
| PHENOL | 616.33 | | | 0.21 | 616.54 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 4.13 | 175.52 | | 0.00 | 179.65 |
| STYRENE | | | 187,278.00 | 0.34 | 187,278.33 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | 0.0006 | | | | 0.0006 |
| TCE,111 | 1,188.66 | 586,050.62 | | | 587,239.28 |
| TOLUENE | 105.30 | 927,146.10 | 2,377,804.86 | 13,235.25 | 3,318,291.51 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 1,455.93 | 395,160.79 | | | 396,616.72 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 714.51 | | | 714.51 |
| VINYL CHLOR | 54.14 | | | | 54.14 |
| XYLENE,M | | 4,307.17 | 682,692.49 | 8,257.96 | 695,257.62 |
| XYLENE,O | 8.95 | 39,857.98 | 369,109.65 | 4,040.35 | 413,016.93 |
| XYLENE,P | | 4,307.17 | | | 4,307.17 |
| XYLENES ISO | 857.91 | 439,041.59 | 1,342,757.56 | 2.77 | 1,782,659.83 |

# Michigan - Gladwin Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 80.20 | | | 80.20 |
| ACENAPHTHYL | | 909.00 | | | 909.00 |
| ACETALDEHYDE | | | 5,202.50 | 1,935.06 | 7,137.56 |
| ACROLEIN | | | 739.40 | | 739.40 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 106.88 | | | 106.88 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.04 | | 0.05 |
| ATRAZINE | | 4,577.48 | | | 4,577.48 |
| BENZ(A)ANTHR | | 320.65 | | | 320.65 |
| BENZ(GHI)PE | | 26.72 | | | 26.72 |
| BENZENE | | 23,670.96 | 29,954.60 | 2,099.82 | 55,725.38 |
| BENZO(A)PYRE | | 53.44 | | | 53.44 |
| BENZO(B)FLUO | | 53.44 | | | 53.44 |
| BENZO(K)FLUO | | 26.72 | | | 26.72 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 3,871.99 | | 3,871.99 |
| CADMIUM | | 0.61 | | | 0.61 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 24.69 | | | 24.69 |
| CHROMIUM | | 0.01 | 0.97 | | 0.99 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 134.00 | | | 134.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 156.22 | | 156.22 |
| DIBENZAHAN | | 26.72 | | | 26.72 |
| DIBROMOET,12 | | 0.70 | | | 0.70 |
| DIBUTYL PHTH | | 777.85 | | | 777.85 |
| DICHLORETH12 | | 7.27 | | | 7.27 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 2,190.83 | 12,958.12 | 803.93 | 15,952.88 |
| ETHYLENE OXI | | 376.59 | | | 376.59 |
| FLUORANTHENE | | 160.33 | | | 160.33 |
| FLUORENE | | 187.05 | | | 187.05 |
| FORMALDEHYDE | | 31.59 | 13,749.91 | 5,725.39 | 19,506.90 |
| GLYCOL ETHRS | | 1,008.41 | | | 1,008.41 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 53.44 | | | 53.44 |
| LEAD | | | 53.56 | | 53.56 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 2.94 | 1.71 | | 4.65 |
| MERCURY | | 0.27 | 1.12 | | 1.39 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 7,198.54 | | | 7,198.54 |
| NAPHTHALENE | | 4,361.75 | 1,909.80 | | 6,271.55 |
| NICKEL | | 0.03 | 1.25 | | 1.28 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 27,803.75 | | | 27,803.75 |
| PHENANTHRENE | | 6,533.33 | | | 6,533.33 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 133.61 | | | 133.61 |
| STYRENE | | | 7,785.04 | | 7,785.04 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 33,217.67 | | | 33,217.67 |
| TOLUENE | | 46,644.75 | 88,443.89 | 3,575.69 | 138,664.33 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 22,312.04 | | | 22,312.04 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 88.39 | | | 88.39 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 243.20 | 25,121.21 | 2,231.81 | 27,596.22 |
| XYLENE,O | | 3,647.64 | 13,773.08 | 1,091.91 | 18,512.63 |
| XYLENE,P | | 243.20 | | | 243.20 |
| XYLENES ISO | | 20,365.67 | 50,049.97 | | 70,415.64 |

# Michigan - Gogebic Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 59.80 | | 59.80 | 119.60 |
| ACENAPHTHYL | | 678.00 | | 678.00 | 1,356.00 |
| ACETALDEHYDE | | | | | 0.00 |
| ACROLEIN | | | | | 0.00 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 79.78 | | 79.78 | 159.56 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | | 0.00 | 0.01 |
| ATRAZINE | | 0.00 | | 0.00 | 0.00 |
| BENZ(A)ANTHR | | 239.35 | | 239.35 | 478.70 |
| BENZ(GHI)PE | | 19.95 | | 19.95 | 39.90 |
| BENZENE | | 19,534.54 | | 19,534.54 | 39,069.08 |
| BENZO(A)PYRE | | 39.89 | | 39.89 | 79.78 |
| BENZO(B)FLUO | | 39.89 | | 39.89 | 79.78 |
| BENZO(K)FLUO | | 19.95 | | 19.95 | 39.90 |
| BERYLLIUM | | 0.00 | | 0.00 | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | | 0.00 | 0.00 |
| CADMIUM | | 0.46 | | 0.46 | 0.92 |
| CARBON TETRA | | 0.00 | | 0.00 | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 17.35 | | 17.35 | 34.70 |
| CHROMIUM | | 0.01 | | 0.01 | 0.03 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 99.70 | | 99.70 | 199.40 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | | | 0.00 |
| DIBENZAHAN | | 19.95 | | 19.95 | 39.90 |
| DIBROMOET,12 | | 1.04 | | 1.04 | 2.09 |
| DIBUTYL PHTH | | 557.30 | | 557.30 | 1,114.60 |
| DICHLORETH12 | | 10.81 | | 10.81 | 21.62 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 1,514.42 | | 1,514.42 | 3,028.84 |
| ETHYLENE OXI | | 264.91 | | 264.91 | 529.82 |
| FLUORANTHENE | | 119.68 | | 119.68 | 239.36 |
| FLUORENE | | 139.62 | | 139.62 | 279.24 |
| FORMALDEHYDE | | 22.20 | | 22.20 | 44.40 |
| GLYCOL ETHRS | | 708.98 | | 708.98 | 1,417.96 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 39.89 | | 39.89 | 79.78 |
| LEAD | | | | | 0.00 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 2.19 | | 2.19 | 4.38 |
| MERCURY | | 0.41 | | 0.41 | 0.82 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 5,119.35 | | 5,119.35 | 10,238.70 |
| NAPHTHALENE | | 3,421.76 | | 3,421.76 | 6,843.52 |
| NICKEL | | 0.02 | | 0.02 | 0.05 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 6,100.70 | | 6,100.70 | 12,201.40 |
| PHENANTHRENE | | 4,876.81 | | 4,876.81 | 9,753.62 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 99.73 | | 99.73 | 199.46 |
| STYRENE | | | | | 0.00 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 23,671.11 | | 23,671.11 | 47,342.22 |
| TOLUENE | | 31,528.61 | | 31,528.61 | 63,057.23 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 15,986.66 | | 15,986.66 | 31,973.32 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 8.96 | | 8.96 | 17.92 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 174.25 | | 174.25 | 348.50 |
| XYLENE,O | | 1,983.77 | | 1,983.77 | 3,967.54 |
| XYLENE,P | | 174.25 | | 174.25 | 348.50 |
| XYLENES ISO | | 17,178.16 | | 17,178.16 | 34,356.32 |

# Michigan - Grand Traverse Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.01 | 111.00 | | | 111.01 |
| ACENAPHTHYL | 0.00 | 1,260.00 | | | 1,260.00 |
| ACETALDEHYDE | | | 13,485.18 | 5,742.04 | 19,227.22 |
| ACROLEIN | | | 1,917.69 | 1.13 | 1,918.82 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.00 | 148.29 | | 0.00 | 148.29 |
| ANTIMONY | 0.06 | | | | 0.06 |
| ARSENIC | 0.79 | 0.01 | 0.12 | | 0.91 |
| ATRAZINE | | 3,574.81 | | | 3,574.81 |
| BENZ(A)ANTHR | 0.00 | 444.88 | | 0.00 | 444.88 |
| BENZ(GHI)PE | | 37.07 | | 0.00 | 37.07 |
| BENZENE | 23.11 | 56,908.32 | 77,924.74 | 2,093.17 | 136,949.35 |
| BENZO(A)PYRE | 0.00 | 74.15 | | 0.00 | 74.15 |
| BENZO(B)FLUO | 0.00 | 74.15 | | 0.00 | 74.15 |
| BENZO(K)FLUO | | 37.07 | | 0.00 | 37.07 |
| BERYLLIUM | 0.03 | 0.00 | | | 0.03 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 10,072.70 | 5.83 | 10,078.53 |
| CADMIUM | 0.17 | 0.85 | | | 1.02 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 72.24 | | | 72.24 |
| CHROMIUM | 2.36 | 0.03 | 2.53 | | 4.91 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.00 | 185.00 | | 0.00 | 185.00 |
| COBALT | 0.07 | | | | 0.07 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.01 | | 411.63 | | 411.63 |
| DIBENZAHAN | | 37.07 | | 0.00 | 37.07 |
| DIBROMOET,12 | | 6.19 | | | 6.19 |
| DIBUTYL PHTH | 0.00 | 2,279.04 | | | 2,279.04 |
| DICHLORETH12 | | 63.79 | | | 63.79 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 7,144.42 | 33,696.68 | 799.16 | 41,640.25 |
| ETHYLENE OXI | | 1,101.29 | | | 1,101.29 |
| FLUORANTHENE | 0.01 | 222.44 | | 0.00 | 222.45 |
| FLUORENE | 0.00 | 259.52 | | | 259.52 |
| FORMALDEHYDE | 605.74 | 92.43 | 35,625.16 | 17,028.79 | 53,352.12 |
| GLYCOL ETHRS | | 2,951.41 | | | 2,951.41 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 74.15 | | 0.00 | 74.15 |
| LEAD | 46.46 | | 138.48 | | 184.94 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 23.13 | 4.08 | 4.45 | | 31.66 |
| MERCURY | 0.22 | 0.95 | 2.90 | | 4.06 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 21,082.29 | | | 21,082.29 |
| NAPHTHALENE | 0.39 | 10,768.78 | 4,967.72 | 1.51 | 15,738.40 |
| NICKEL | 2.11 | 0.05 | 3.24 | | 5.40 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 81,460.85 | | | 81,460.85 |
| PHENANTHRENE | 0.11 | 9,064.50 | | 0.00 | 9,064.61 |
| PHENOL | 0.00 | | | 0.82 | 0.82 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 185.37 | | 0.00 | 185.37 |
| STYRENE | | | 20,210.54 | 0.27 | 20,210.81 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 23.35 | 97,295.35 | | | 97,318.70 |
| TOLUENE | 64.65 | 185,336.62 | 230,025.88 | 3,555.27 | 418,982.42 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 65,372.70 | | | 65,372.70 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 47.93 | | | 47.93 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 712.54 | 65,347.79 | 2,217.35 | 68,277.68 |
| XYLENE,O | | 9,699.33 | 35,819.24 | 1,085.47 | 46,604.03 |
| XYLENE,P | | 712.54 | | | 712.54 |
| XYLENES ISO | 19.75 | 85,338.76 | 130,165.72 | 1.64 | 215,525.87 |

# Michigan - Gratiot Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 61.40 | | | 61.40 |
| ACENAPHTHYL | | 695.00 | | | 695.00 |
| ACETALDEHYDE | | | 6,510.11 | 6,173.79 | 12,683.90 |
| ACROLEIN | | | 927.20 | 0.12 | 927.32 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 81.81 | | 0.00 | 81.81 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.05 | | 0.06 |
| ATRAZINE | | 66,703.37 | | | 66,703.37 |
| BENZ(A)ANTHR | | 245.42 | | 0.00 | 245.42 |
| BENZ(GHI)PE | | 20.45 | | 0.00 | 20.45 |
| BENZENE | 37.31 | 24,309.63 | 37,967.04 | 3,870.93 | 66,184.92 |
| BENZO(A)PYRE | 3,141.34 | 40.90 | | 0.00 | 3,182.24 |
| BENZO(B)FLUO | | 40.90 | | 0.00 | 40.90 |
| BENZO(K)FLUO | | 20.45 | | 0.00 | 20.45 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 4,907.69 | 0.23 | 4,907.92 |
| CADMIUM | | 0.47 | | | 0.47 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 39.61 | | | 39.61 |
| CHROMIUM | | 0.01 | 1.20 | | 1.21 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 102.00 | | 0.00 | 102.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 195.65 | | 195.65 |
| DIBENZAHAN | | 20.45 | | 0.00 | 20.45 |
| DIBROMOET,12 | | 1.86 | | | 1.86 |
| DIBUTYL PHTH | | 1,262.13 | | | 1,262.13 |
| DICHLORETH12 | | 19.24 | | | 19.24 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 3,527.57 | 16,399.05 | 1,481.97 | 21,408.59 |
| ETHYLENE OXI | | 604.07 | | | 604.07 |
| FLUORANTHENE | | 122.71 | | 0.00 | 122.71 |
| FLUORENE | | 143.16 | | | 143.16 |
| FORMALDEHYDE | | 50.68 | 17,179.33 | 18,266.97 | 35,496.97 |
| GLYCOL ETHRS | | 1,618.32 | | | 1,618.32 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 40.90 | | 0.00 | 40.90 |
| LEAD | 0.00 | | 65.61 | | 65.61 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 2.25 | 2.11 | | 4.36 |
| MERCURY | | 0.25 | 1.37 | | 1.62 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 11,629.68 | | | 11,629.68 |
| NAPHTHALENE | | 5,245.25 | 2,419.65 | 0.00 | 7,664.90 |
| NICKEL | | 0.02 | 1.54 | | 1.56 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | 0.0171 | | | | 0.0171 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 45,103.25 | | | 45,103.25 |
| PHENANTHRENE | | 5,000.49 | | 0.00 | 5,000.49 |
| PHENOL | | | | 0.04 | 0.04 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 102.26 | | 0.00 | 102.26 |
| STYRENE | | | 9,784.07 | 0.07 | 9,784.14 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 53,728.68 | | | 53,728.68 |
| TOLUENE | 1,776.46 | 70,199.64 | 111,992.55 | 6,592.03 | 190,560.67 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 36,204.45 | | | 36,204.45 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 1,504.01 | | | 1,504.01 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 394.62 | 31,834.23 | 4,113.51 | 36,342.36 |
| XYLENE,O | | 3,231.91 | 17,436.02 | 2,012.56 | 22,680.49 |
| XYLENE,P | | 394.62 | | | 394.62 |
| XYLENES ISO | 2,200.00 | 36,840.07 | 63,367.78 | 0.89 | 102,408.74 |

# Michigan - Hillsdale Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 87.90 | | | 87.90 |
| ACENAPHTHYL | | 996.00 | | | 996.00 |
| ACETALDEHYDE | | | 9,618.16 | 4,861.76 | 14,479.92 |
| ACROLEIN | | | 1,367.39 | 0.10 | 1,367.49 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 117.22 | | 0.00 | 117.22 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.07 | 0.00 | 0.08 | | 0.15 |
| ATRAZINE | | 63,027.78 | | | 63,027.78 |
| BENZ(A)ANTHR | 0.00 | 351.66 | | 0.00 | 351.66 |
| BENZ(GHI)PE | | 29.30 | | 0.00 | 29.30 |
| BENZENE | 0.92 | 30,096.11 | 55,481.79 | 2,652.13 | 88,230.95 |
| BENZO(A)PYRE | 0.00 | 58.61 | | 0.00 | 58.61 |
| BENZO(B)FLUO | | 58.61 | | 0.00 | 58.61 |
| BENZO(K)FLUO | | 29.30 | | 0.00 | 29.30 |
| BERYLLIUM | 0.01 | 0.00 | | | 0.01 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 7,171.68 | 0.17 | 7,171.85 |
| CADMIUM | 0.00 | 0.67 | | | 0.68 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 45.95 | | | 45.95 |
| CHROMIUM | 0.14 | 0.01 | 1.80 | | 1.96 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | 0.00 | 147.00 | | 0.00 | 147.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.00 | | 291.80 | | 291.80 |
| DIBENZAHAN | | 29.30 | | 0.00 | 29.30 |
| DIBROMOET,12 | | 1.56 | | | 1.56 |
| DIBUTYL PHTH | | 1,450.41 | | | 1,450.41 |
| DICHLORETH12 | | 16.25 | | | 16.25 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.02 | 5,146.17 | 23,996.10 | 1,015.36 | 30,157.65 |
| ETHYLENE OXI | | 700.56 | | | 700.56 |
| FLUORANTHENE | 0.00 | 175.83 | | 0.00 | 175.83 |
| FLUORENE | | 205.13 | | | 205.13 |
| FORMALDEHYDE | 3.38 | 58.77 | 25,414.59 | 14,384.92 | 39,861.67 |
| GLYCOL ETHRS | | 1,877.00 | | | 1,877.00 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 58.61 | | 0.00 | 58.61 |
| LEAD | 0.00 | | 98.91 | | 98.91 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 0.16 | 3.22 | 3.17 | | 6.56 |
| MERCURY | 16.30 | 0.36 | 2.07 | | 18.72 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 13,413.40 | | | 13,413.40 |
| NAPHTHALENE | 0.11 | 6,338.12 | 3,537.14 | 0.00 | 9,875.37 |
| NICKEL | 0.12 | 0.03 | 2.32 | | 2.47 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 51,842.23 | | | 51,842.23 |
| PHENANTHRENE | | 7,165.02 | | 0.00 | 7,165.02 |
| PHENOL | | | | 0.03 | 0.03 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 146.52 | | 0.00 | 146.52 |
| STYRENE | | | 14,403.63 | 0.05 | 14,403.68 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 61,907.92 | | | 61,907.92 |
| TOLUENE | 0.28 | 156,514.88 | 163,794.77 | 4,516.42 | 324,826.34 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 46,357.08 | 41,604.34 | | | 87,961.42 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 1,067.76 | | | 1,067.76 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 453.48 | 46,528.18 | 2,818.34 | 49,800.00 |
| XYLENE,O | | 13,502.31 | 25,506.48 | 1,378.89 | 40,387.68 |
| XYLENE,P | | 453.48 | | | 453.48 |
| XYLENES ISO | 0.05 | 46,684.14 | 92,688.90 | 0.58 | 139,373.66 |

# Michigan - Houghton Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.00 | 118.00 | | | 118.00 |
| ACENAPHTHYL | 0.00 | 1,340.00 | | | 1,340.00 |
| ACETALDEHYDE | | | 6,511.90 | 5,046.43 | 11,558.33 |
| ACROLEIN | | | 926.84 | 0.02 | 926.86 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.00 | 157.83 | | 0.00 | 157.83 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.05 | | 0.06 |
| ATRAZINE | | 0.00 | | | 0.00 |
| BENZ(A)ANTHR | 0.00 | 473.50 | | 0.00 | 473.50 |
| BENZ(GHI)PE | | 39.46 | | 0.00 | 39.46 |
| BENZENE | 0.99 | 39,104.01 | 37,824.07 | 36,039.13 | 112,968.20 |
| BENZO(A)PYRE | 0.00 | 78.92 | | 0.00 | 78.92 |
| BENZO(B)FLUO | 0.00 | 78.92 | | 0.00 | 78.92 |
| BENZO(K)FLUO | | 39.46 | | 0.00 | 39.46 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 4,889.21 | 0.09 | 4,889.30 |
| CADMIUM | | 0.91 | | | 0.91 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 35.46 | | | 35.46 |
| CHROMIUM | | 0.02 | 1.20 | | 1.23 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | 0.00 | 197.00 | | 0.00 | 197.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 194.25 | | 194.25 |
| DIBENZAHAN | | 39.46 | | 0.00 | 39.46 |
| DIBROMOET,12 | | 2.16 | | | 2.16 |
| DIBUTYL PHTH | | 1,140.48 | | | 1,140.48 |
| DICHLORETH12 | | 22.48 | | | 22.48 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 3,097.79 | 16,345.53 | 13,797.83 | 33,241.14 |
| ETHYLENE OXI | | 541.16 | | | 541.16 |
| FLUORANTHENE | 0.00 | 236.75 | | 0.00 | 236.75 |
| FLUORENE | 0.00 | 276.21 | | | 276.21 |
| FORMALDEHYDE | 164.69 | 45.36 | 17,192.46 | 14,931.28 | 32,333.79 |
| GLYCOL ETHRS | | 1,448.37 | | | 1,448.37 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 78.92 | | 0.00 | 78.92 |
| LEAD | 0.16 | | 66.06 | | 66.22 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 4.34 | 2.12 | | 6.46 |
| MERCURY | | 0.28 | 1.38 | | 1.67 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 10,469.20 | | | 10,469.20 |
| NAPHTHALENE | 0.10 | 6,886.17 | 2,410.87 | 0.00 | 9,297.14 |
| NICKEL | | 0.04 | 1.55 | | 1.59 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 40,747.17 | | | 40,747.17 |
| PHENANTHRENE | 0.03 | 9,647.60 | | 0.00 | 9,647.63 |
| PHENOL | | | | 0.02 | 0.02 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 197.29 | | 0.00 | 197.29 |
| STYRENE | | | 9,774.71 | 0.03 | 9,774.74 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | 0.0000 | | | | 0.0000 |
| TCE,111 | | 48,417.14 | | | 48,417.14 |
| TOLUENE | 96,256.00 | 64,367.36 | 111,606.67 | 61,369.77 | 333,599.80 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 32,715.49 | | | 32,715.49 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 40.84 | | | 40.84 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 356.59 | 31,716.51 | 38,304.08 | 70,377.18 |
| XYLENE,O | | 3,933.21 | 17,377.37 | 18,740.18 | 40,050.76 |
| XYLENE,P | | 356.59 | | | 356.59 |
| XYLENES ISO | | 35,326.62 | 63,152.03 | 0.50 | 98,479.15 |

# Michigan - Huron Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.01 | 56.60 | | | 56.61 |
| ACENAPHTHYL | 0.00 | 641.00 | | | 641.00 |
| ACETALDEHYDE | | | 8,507.19 | 10,080.98 | 18,588.17 |
| ACROLEIN | | | 1,208.86 | | 1,208.86 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.00 | 75.45 | | | 75.45 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 16.71 | 0.00 | 0.07 | | 16.78 |
| ATRAZINE | | 100,666.65 | | | 100,666.65 |
| BENZ(A)ANTHR | 0.00 | 226.34 | | | 226.34 |
| BENZ(GHI)PE | | 18.86 | | | 18.86 |
| BENZENE | 7.68 | 22,160.03 | 48,928.60 | 3,779.11 | 74,875.42 |
| BENZO(A)PYRE | 0.00 | 37.72 | | | 37.72 |
| BENZO(B)FLUO | 0.00 | 37.72 | | | 37.72 |
| BENZO(K)FLUO | | 18.86 | | | 18.86 |
| BERYLLIUM | 0.92 | 0.00 | | | 0.92 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | 0.17 | | 6,324.60 | | 6,324.77 |
| CADMIUM | 1.28 | 0.43 | | | 1.71 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 34.97 | | | 34.97 |
| CHROMIUM | 16.05 | 0.01 | 1.60 | | 17.66 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.01 | 94.30 | | | 94.31 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.45 | | 259.84 | | 260.29 |
| DIBENZAHAN | | 18.86 | | | 18.86 |
| DIBROMOET,12 | | 1.67 | | | 1.67 |
| DIBUTYL PHTH | | 1,115.26 | | | 1,115.26 |
| DICHLORETH12 | | 17.30 | | | 17.30 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.53 | 3,431.06 | 21,168.61 | 1,446.86 | 26,047.06 |
| ETHYLENE OXI | | 534.36 | | | 534.36 |
| FLUORANTHENE | 0.01 | 113.17 | | | 113.18 |
| FLUORENE | 0.00 | 132.03 | | | 132.03 |
| FORMALDEHYDE | 343.14 | 44.75 | 22,486.96 | 29,827.22 | 52,702.07 |
| GLYCOL ETHRS | | 1,428.80 | | | 1,428.80 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 37.72 | | | 37.72 |
| LEAD | 14.03 | | 87.91 | | 101.94 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 121.21 | 2.07 | 2.82 | | 126.10 |
| MERCURY | 27.18 | 0.25 | 1.84 | | 29.27 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 10,273.00 | | | 10,273.00 |
| NAPHTHALENE | 23.59 | 4,717.88 | 3,119.61 | | 7,861.09 |
| NICKEL | 13.04 | 0.02 | 2.06 | | 15.12 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 39,854.06 | | | 39,854.06 |
| PHENANTHRENE | 0.05 | 4,611.76 | | | 4,611.81 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 94.31 | | | 94.31 |
| STYRENE | 613.66 | | 12,724.34 | | 13,338.00 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 5.62 | 47,465.19 | | | 47,470.81 |
| TOLUENE | 19.06 | 84,383.90 | 144,477.01 | 6,435.29 | 235,315.25 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 31,991.58 | | | 31,991.58 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 1,148.64 | | | 1,148.64 |
| VINYL CHLOR | 13,984.61 | | | | 13,984.61 |
| XYLENE,M | | 348.70 | 41,034.25 | 4,016.65 | 45,399.60 |
| XYLENE,O | | 5,521.71 | 22,499.33 | 1,965.14 | 29,986.17 |
| XYLENE,P | | 348.70 | | | 348.70 |
| XYLENES ISO | 7.52 | 34,849.27 | 81,759.75 | | 116,616.54 |

# Michigan - Ingham Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 74.50 | | | 74.50 |
| ACENAPHTHYL | | 844.00 | | | 844.00 |
| ACETALDEHYDE | 0.18 | | 62,916.03 | 15,267.15 | 78,183.36 |
| ACROLEIN | | | 9,340.01 | 0.31 | 9,340.31 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 99.30 | | 0.00 | 99.30 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 76.40 | 0.01 | 0.41 | | 76.82 |
| ATRAZINE | | 46,191.71 | | | 46,191.71 |
| BENZ(A)ANTHR | 357.39 | 297.89 | | 0.00 | 655.28 |
| BENZ(GHI)PE | | 24.82 | | 0.00 | 24.82 |
| BENZENE | 8.58 | 84,589.47 | 460,839.94 | 11,855.14 | 557,293.13 |
| BENZO(A)PYRE | 0.00 | 49.65 | | 0.00 | 49.65 |
| BENZO(B)FLUO | | 49.65 | | 0.00 | 49.65 |
| BENZO(K)FLUO | | 24.82 | | 0.00 | 24.82 |
| BERYLLIUM | 3.82 | 0.00 | | | 3.82 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 59,568.23 | 0.51 | 59,568.74 |
| CADMIUM | 5.68 | 0.58 | | | 6.25 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 284.04 | | | 284.04 |
| CHROMIUM | 204.68 | 0.02 | 9.22 | | 213.92 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 59.50 | 124.00 | | 0.00 | 183.50 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.77 | | 1,684.53 | | 1,685.30 |
| DIBENZAHAN | | 24.82 | | 0.00 | 24.82 |
| DIBROMOET,12 | | 13.20 | | | 13.20 |
| DIBUTYL PHTH | | 7,236.68 | | | 7,236.68 |
| DICHLORETH12 | | 136.84 | | | 136.84 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 26,130.29 | 194,694.44 | 4,538.73 | 225,363.46 |
| ETHYLENE OXI | | 4,329.82 | | | 4,329.82 |
| FLUORANTHENE | 0.02 | 148.94 | | 0.00 | 148.96 |
| FLUORENE | | 173.77 | | | 173.77 |
| FORMALDEHYDE | 714.33 | 363.38 | 160,875.85 | 45,172.29 | 207,125.85 |
| GLYCOL ETHRS | | 11,603.67 | | | 11,603.67 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 49.65 | | 0.00 | 49.65 |
| LEAD | 69.93 | | 418.74 | | 488.67 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 78.65 | 2.73 | 17.10 | | 98.48 |
| MERCURY | 177.42 | 1.58 | 6.80 | | 185.80 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 83,179.62 | | | 83,179.62 |
| NAPHTHALENE | 0.19 | 26,204.13 | 29,202.34 | 0.00 | 55,406.66 |
| NICKEL | 57.23 | 0.05 | 11.28 | | 68.56 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 5,670.00 | 377,687.12 | | | 383,357.12 |
| PHENANTHRENE | | 6,069.50 | | 0.00 | 6,069.50 |
| PHENOL | 0.14 | | | 0.09 | 0.23 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 124.12 | | 0.00 | 124.12 |
| STYRENE | | | 104,660.18 | 0.15 | 104,660.33 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 10.14 | 384,117.44 | | | 384,127.58 |
| TOLUENE | 33.56 | 524,817.69 | 1,340,911.52 | 20,188.26 | 1,885,951.04 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 258,525.67 | | | 258,525.67 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 802.90 | | | 802.90 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 2,817.87 | 385,301.48 | 12,598.82 | 400,718.18 |
| XYLENE,O | | 18,861.17 | 208,092.80 | 6,164.02 | 233,117.98 |
| XYLENE,P | | 2,817.87 | | | 2,817.87 |
| XYLENES ISO | 20.79 | 268,788.39 | 757,131.12 | 1.74 | 1,025,942.05 |

# Michigan - Ionia Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.02 | 84.80 | | | 84.82 |
| ACENAPHTHYL | 0.01 | 961.00 | | | 961.01 |
| ACETALDEHYDE | | | 11,372.87 | 5,333.31 | 16,706.19 |
| ACROLEIN | | | 1,617.77 | 0.39 | 1,618.16 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.01 | 113.10 | | 0.00 | 113.11 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 3.42 | 0.00 | 0.10 | | 3.52 |
| ATRAZINE | | 56,044.41 | | | 56,044.41 |
| BENZ(A)ANTHR | 35.91 | 339.30 | | 0.00 | 375.21 |
| BENZ(GHI)PE | | 28.27 | | 0.00 | 28.27 |
| BENZENE | 5.53 | 35,356.12 | 65,833.47 | 2,736.74 | 103,931.85 |
| BENZO(A)PYRE | 0.00 | 56.55 | | 0.00 | 56.55 |
| BENZO(B)FLUO | 0.00 | 56.55 | | 0.00 | 56.55 |
| BENZO(K)FLUO | | 28.27 | | 0.00 | 28.27 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 8,509.75 | 0.64 | 8,510.40 |
| CADMIUM | 0.27 | 0.65 | | | 0.93 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 60.56 | | | 60.56 |
| CHROMIUM | 9.09 | 0.01 | 2.12 | | 11.22 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | 5.98 | 141.00 | | 0.00 | 146.98 |
| COBALT | 0.00 | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 345.06 | | 345.06 |
| DIBENZAHAN | | 28.27 | | 0.00 | 28.27 |
| DIBROMOET,12 | | 2.91 | | | 2.91 |
| DIBUTYL PHTH | | 1,909.25 | | | 1,909.25 |
| DICHLORETH12 | | 30.13 | | | 30.13 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 5,642.89 | 28,461.48 | 1,047.66 | 35,152.02 |
| ETHYLENE OXI | | 923.27 | | | 923.27 |
| FLUORANTHENE | 0.00 | 169.65 | | 0.00 | 169.65 |
| FLUORENE | 0.00 | 197.92 | | | 197.92 |
| FORMALDEHYDE | 1,021.22 | 77.47 | 30,038.57 | 15,780.53 | 46,917.79 |
| GLYCOL ETHRS | | 2,474.12 | | | 2,474.12 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 56.55 | | 0.00 | 56.55 |
| LEAD | 1,929.14 | | 116.37 | | 2,045.51 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 0.34 | 3.11 | 3.74 | | 7.19 |
| MERCURY | | 0.34 | 2.43 | | 2.77 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 17,666.12 | | | 17,666.12 |
| NAPHTHALENE | 0.63 | 7,754.71 | 4,196.62 | 0.01 | 11,951.97 |
| NICKEL | 0.05 | 0.03 | 2.73 | | 2.82 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 1,634.09 | 67,044.52 | | | 68,678.61 |
| PHENANTHRENE | 0.18 | 6,913.23 | | 0.00 | 6,913.41 |
| PHENOL | | | | 0.12 | 0.12 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 141.37 | | 0.00 | 141.37 |
| STYRENE | | | 17,052.22 | 0.19 | 17,052.41 |
| TCDD,2378 | | | | | 0.00 |
| TCDF,2378 | | | | | 0.00 |
| TCE,111 | | 81,524.00 | | | 81,524.00 |
| TOLUENE | | 124,605.66 | 194,304.55 | 4,661.10 | 323,571.30 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 54,765.66 | | | 54,765.66 |
| TRICLPHN,245 | | | | | 0.0000 |
| TRICLPHN,246 | | | | | 0.0000 |
| TRIFLURALIN | | 1,085.69 | | | 1,085.69 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 596.93 | 55,206.25 | 2,906.87 | 58,710.06 |
| XYLENE,O | | 6,727.96 | 30,255.58 | 1,422.28 | 38,405.82 |
| XYLENE,P | | 596.93 | | | 596.93 |
| XYLENES ISO | | 56,938.13 | 109,949.98 | 2.20 | 166,890.32 |

# Michigan - Iosco Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 83.10 | | | 83.10 |
| ACENAPHTHYL | | 942.00 | | | 942.00 |
| ACETALDEHYDE | | | 6,121.60 | 3,369.90 | 9,491.50 |
| ACROLEIN | | | 870.73 | 0.11 | 870.84 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 110.79 | | 0.00 | 110.79 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.05 | | 0.06 |
| ATRAZINE | | 2,215.52 | | | 2,215.52 |
| BENZ(A)ANTHR | | 332.36 | | 0.00 | 332.36 |
| BENZ(GHI)PE | | 27.70 | | 0.00 | 27.70 |
| BENZENE | | 27,675.92 | 35,420.91 | 3,433.54 | 66,530.37 |
| BENZO(A)PYRE | | 55.39 | | 0.00 | 55.39 |
| BENZO(B)FLUO | | 55.39 | | 0.00 | 55.39 |
| BENZO(K)FLUO | | 27.70 | | 0.00 | 27.70 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 4,578.57 | 0.13 | 4,578.70 |
| CADMIUM | | 0.64 | | | 0.64 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 24.69 | | | 24.69 |
| CHROMIUM | | 0.01 | 1.14 | | 1.15 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 138.00 | | 0.00 | 138.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 184.30 | | 184.30 |
| DIBENZAHAN | | 27.70 | | 0.00 | 27.70 |
| DIBROMOET,12 | | 1.59 | | | 1.59 |
| DIBUTYL PHTH | | 785.52 | | | 785.52 |
| DICHLORETH12 | | 16.43 | | | 16.43 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 2,239.17 | 15,313.62 | 1,314.53 | 18,867.32 |
| ETHYLENE OXI | | 376.67 | | | 376.67 |
| FLUORANTHENE | | 166.18 | | 0.00 | 166.18 |
| FLUORENE | | 193.88 | | | 193.88 |
| FORMALDEHYDE | | 31.59 | 16,169.46 | 9,970.85 | 26,171.90 |
| GLYCOL ETHRS | | 1,008.62 | | | 1,008.62 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 55.39 | | 0.00 | 55.39 |
| LEAD | 0.00 | | 62.54 | | 62.54 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 3.05 | 2.01 | | 5.06 |
| MERCURY | | 0.44 | 1.31 | | 1.75 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 7,241.96 | | | 7,241.96 |
| NAPHTHALENE | | 4,852.06 | 2,257.95 | 0.00 | 7,110.01 |
| NICKEL | | 0.04 | 1.46 | | 1.50 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 28,071.70 | | | 28,071.70 |
| PHENANTHRENE | | 6,771.87 | | 0.00 | 6,771.87 |
| PHENOL | | | | 0.02 | 0.02 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 138.48 | | 0.00 | 138.48 |
| STYRENE | | | 9,175.26 | 0.04 | 9,175.30 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 33,452.51 | | | 33,452.51 |
| TOLUENE | | 50,548.51 | 104,543.95 | 5,846.87 | 160,939.33 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 22,532.41 | | | 22,532.41 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 66.49 | | | 66.49 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 245.60 | 29,703.09 | 3,649.06 | 33,597.75 |
| XYLENE,O | | 3,369.99 | 16,278.75 | 1,785.31 | 21,434.04 |
| XYLENE,P | | 245.60 | | | 245.60 |
| XYLENES ISO | | 25,563.10 | 59,157.93 | 0.31 | 84,721.34 |

# Michigan - Iron Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.04 | 63.40 | | | 63.44 |
| ACENAPHTHYL | 0.44 | 719.00 | | | 719.44 |
| ACETALDEHYDE | 29.55 | | 3,530.74 | 3,256.96 | 6,817.25 |
| ACROLEIN | 0.04 | | 501.53 | | 501.57 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.38 | 84.55 | | | 84.93 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.30 | 0.00 | 0.03 | | 0.33 |
| ATRAZINE | | 0.00 | | | 0.00 |
| BENZ(A)ANTHR | 0.02 | 253.66 | | | 253.68 |
| BENZ(GHI)PE | 0.01 | 21.14 | | | 21.15 |
| BENZENE | 37.03 | 20,510.63 | 20,260.01 | 21,629.59 | 62,437.26 |
| BENZO(A)PYRE | 0.00 | 42.28 | | | 42.28 |
| BENZO(B)FLUO | 0.00 | 42.28 | | | 42.28 |
| BENZO(K)FLUO | | 21.14 | | | 21.14 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 2,618.85 | | 2,618.85 |
| CADMIUM | 0.06 | 0.49 | | | 0.55 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 12.89 | | | 12.89 |
| CHROMIUM | 0.71 | 0.01 | 0.66 | | 1.38 |
| CHROMIUM VI | 0.16 | | | | 0.16 |
| CHRYSENE | 0.42 | 106.00 | | | 106.42 |
| COBALT | 0.45 | | | | 0.45 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 1.44 | | 103.57 | | 105.01 |
| DIBENZAHAN | | 21.14 | | | 21.14 |
| DIBROMOET,12 | | 1.15 | | | 1.15 |
| DIBUTYL PHTH | | 414.74 | | | 414.74 |
| DICHLORETH12 | | 11.86 | | | 11.86 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 1,208.86 | 8,767.91 | 8,281.04 | 18,257.82 |
| ETHYLENE OXI | | 197.28 | | | 197.28 |
| FLUORANTHENE | 0.89 | 126.83 | | | 127.72 |
| FLUORENE | 0.09 | 147.97 | | | 148.06 |
| FORMALDEHYDE | 304.49 | 16.49 | 9,335.34 | 9,636.57 | 19,292.90 |
| GLYCOL ETHRS | | 526.36 | | | 526.36 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.00 | 42.28 | | | 42.28 |
| LEAD | 0.68 | | 36.34 | | 37.02 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 30.62 | 2.33 | 1.15 | | 34.11 |
| MERCURY | 0.06 | 0.21 | 0.77 | | 1.04 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 3,806.18 | | | 3,806.18 |
| NAPHTHALENE | 10.94 | 3,295.76 | 1,291.85 | | 4,598.55 |
| NICKEL | 1.92 | 0.02 | 0.85 | | 2.79 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0001 | | | | 0.0001 |
| PCDF | 0.0054 | | | | 0.0054 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 14,817.72 | | | 14,817.72 |
| PHENANTHRENE | 0.60 | 5,168.35 | | | 5,168.95 |
| PHENOL | 2.40 | | | | 2.40 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.16 | 105.69 | | | 105.85 |
| STYRENE | | | 5,277.36 | | 5,277.36 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 0.29 | 17,603.81 | | | 17,604.10 |
| TOLUENE | 0.80 | 31,069.79 | 59,835.19 | 36,832.09 | 127,737.87 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 11,897.19 | | | 11,897.19 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 30.46 | | | 30.46 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 129.68 | 16,991.85 | 22,989.16 | 40,110.69 |
| XYLENE,O | | 2,440.34 | 9,318.54 | 11,247.38 | 23,006.27 |
| XYLENE,P | | 129.68 | | | 129.68 |
| XYLENES ISO | 0.24 | 15,360.58 | 33,861.63 | | 49,222.45 |

# Michigan - Isabella Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 80.90 | | | 80.90 |
| ACENAPHTHYL | | 917.00 | | | 917.00 |
| ACETALDEHYDE | | | 8,865.36 | 5,332.15 | 14,197.51 |
| ACROLEIN | | | 1,262.85 | 0.15 | 1,263.00 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 107.90 | | 0.00 | 107.90 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.00 | 0.00 | 0.07 | | 0.08 |
| ATRAZINE | | 34,370.72 | | | 34,370.72 |
| BENZ(A)ANTHR | | 323.69 | | 0.00 | 323.69 |
| BENZ(GHI)PE | | 26.97 | | 0.00 | 26.97 |
| BENZENE | 22.69 | 31,193.52 | 51,754.00 | 2,067.34 | 85,037.55 |
| BENZO(A)PYRE | | 53.95 | | 0.00 | 53.95 |
| BENZO(B)FLUO | | 53.95 | | 0.00 | 53.95 |
| BENZO(K)FLUO | | 26.97 | | 0.00 | 26.97 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 6,689.81 | 0.21 | 6,690.02 |
| CADMIUM | 0.00 | 0.62 | | | 0.62 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 57.17 | | | 57.17 |
| CHROMIUM | | 0.01 | 1.64 | | 1.65 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | | 135.00 | | 0.00 | 135.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.00 | | 266.54 | | 266.54 |
| DIBENZAHAN | | 26.97 | | 0.00 | 26.97 |
| DIBROMOET,12 | | 2.14 | | | 2.14 |
| DIBUTYL PHTH | | 1,779.09 | | | 1,779.09 |
| DICHLORETH12 | | 22.19 | | | 22.19 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 4,969.34 | 22,353.10 | 791.45 | 28,113.89 |
| ETHYLENE OXI | | 871.61 | | | 871.61 |
| FLUORANTHENE | 0.01 | 161.84 | | 0.00 | 161.85 |
| FLUORENE | | 188.82 | | | 188.82 |
| FORMALDEHYDE | | 73.15 | 23,391.70 | 15,776.74 | 39,241.59 |
| GLYCOL ETHRS | | 2,335.63 | | | 2,335.63 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 53.95 | | 0.00 | 53.95 |
| LEAD | 2,200.00 | | 89.48 | | 2,289.48 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 0.10 | 2.97 | 2.89 | | 5.96 |
| MERCURY | 0.00 | 0.26 | 1.87 | | 2.13 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 16,723.86 | | | 16,723.86 |
| NAPHTHALENE | | 7,087.78 | 3,298.28 | 0.00 | 10,386.06 |
| NICKEL | 0.00 | 0.03 | 2.10 | | 2.13 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 64,716.01 | | | 64,716.01 |
| PHENANTHRENE | | 6,595.17 | | 0.00 | 6,595.17 |
| PHENOL | | | | 0.04 | 0.04 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 134.87 | | 0.00 | 134.87 |
| STYRENE | | | 13,335.03 | 0.06 | 13,335.09 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 26.81 | 77,214.08 | | | 77,240.89 |
| TOLUENE | 74.24 | 91,718.86 | 152,657.73 | 3,520.56 | 247,971.39 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 51,940.00 | | | 51,940.00 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 643.79 | | | 643.79 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 566.13 | 43,394.07 | 2,196.75 | 46,156.95 |
| XYLENE,O | | 3,883.89 | 23,767.20 | 1,074.78 | 28,725.87 |
| XYLENE,P | | 566.13 | | | 566.13 |
| XYLENES ISO | 22.69 | 49,304.76 | 86,376.15 | 0.59 | 135,704.19 |

# Michigan - Jackson Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 122.00 | | | 122.00 |
| ACENAPHTHYL | | 1,380.00 | | | 1,380.00 |
| ACETALDEHYDE | | | 39,097.37 | 6,239.64 | 45,337.01 |
| ACROLEIN | | | 5,705.48 | 2.02 | 5,707.51 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 162.60 | | 0.00 | 162.60 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.03 | 0.01 | 0.29 | | 0.33 |
| ATRAZINE | | 55,527.57 | | | 55,527.57 |
| BENZ(A)ANTHR | | 487.81 | | 0.00 | 487.81 |
| BENZ(GHI)PE | | 40.65 | | 0.00 | 40.65 |
| BENZENE | 9,541.55 | 60,981.99 | 261,964.14 | 2,857.33 | 335,345.01 |
| BENZO(A)PYRE | | 81.30 | | 0.00 | 81.30 |
| BENZO(B)FLUO | | 81.30 | | 0.00 | 81.30 |
| BENZO(K)FLUO | | 40.65 | | 0.00 | 40.65 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 33,861.68 | 2.01 | 33,863.69 |
| CADMIUM | 0.02 | 0.94 | | | 0.95 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 153.94 | | | 153.94 |
| CHROMIUM | 134.68 | 0.03 | 6.39 | | 141.11 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | | 203.00 | | 0.00 | 203.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 226.43 | | 1,109.43 | | 1,335.86 |
| DIBENZAHAN | | 40.65 | | 0.00 | 40.65 |
| DIBROMOET,12 | | 5.86 | | | 5.86 |
| DIBUTYL PHTH | | 2,985.21 | | | 2,985.21 |
| DICHLORETH12 | | 61.00 | | | 61.00 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 15,250.38 | 111,594.06 | 1,093.33 | 127,937.77 |
| ETHYLENE OXI | | 2,346.56 | | | 2,346.56 |
| FLUORANTHENE | 0.01 | 243.91 | | 0.00 | 243.92 |
| FLUORENE | | 284.56 | | | 284.56 |
| FORMALDEHYDE | | 196.94 | 101,310.71 | 18,464.76 | 119,972.41 |
| GLYCOL ETHRS | | 6,288.88 | | | 6,288.88 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 81.30 | | 0.00 | 81.30 |
| LEAD | 2,080.40 | | 317.94 | | 2,398.34 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 3,137.89 | 4.47 | 11.57 | | 3,153.94 |
| MERCURY | 0.00 | 1.56 | 5.92 | | 7.48 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 2,148.35 | 45,086.20 | | | 47,234.55 |
| NAPHTHALENE | | 16,109.64 | 16,635.59 | 0.10 | 32,745.33 |
| NICKEL | 18.64 | 0.06 | 8.00 | | 26.69 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 85,560.00 | 55,121.03 | | | 140,681.03 |
| PHENANTHRENE | | 9,939.14 | | 0.00 | 9,939.14 |
| PHENOL | 0.00 | | | 0.29 | 0.29 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 203.25 | | 0.00 | 203.25 |
| STYRENE | 77.63 | | 62,486.10 | 0.42 | 62,564.14 |
| TCDD,2378 | 0.0001 | | | | 0.0001 |
| TCDF,2378 | 0.0004 | | | | 0.0004 |
| TCE,111 | 41.13 | 208,208.76 | | | 208,249.89 |
| TOLUENE | 166.99 | 364,848.12 | 766,152.91 | 4,863.42 | 1,136,031.44 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 3,330.25 | 140,139.79 | | | 143,470.04 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 437.78 | | | 437.78 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 1,527.49 | 219,258.12 | 3,034.02 | 223,819.63 |
| XYLENE,O | | 22,868.12 | 119,043.99 | 1,484.61 | 143,396.72 |
| XYLENE,P | | 1,527.49 | | | 1,527.49 |
| XYLENES ISO | 34.80 | 145,558.57 | 432,932.65 | 1.56 | 578,527.58 |

# Michigan - Kalamazoo Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.01 | 98.70 | | | 98.71 |
| ACENAPHTHYL | 0.00 | 1,120.00 | | | 1,120.00 |
| ACETALDEHYDE | | | 56,607.26 | 16,627.38 | 73,234.63 |
| ACROLEIN | | | 8,353.69 | 1.62 | 8,355.31 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | 487.95 | | | | 487.95 |
| ANTHRACENE | 0.00 | 131.60 | | 0.00 | 131.60 |
| ANTIMONY | 6.86 | | | | 6.86 |
| ARSENIC | 148.89 | 0.02 | 0.38 | | 149.28 |
| ATRAZINE | | 43,095.84 | | | 43,095.84 |
| BENZ(A)ANTHR | 103.81 | 394.80 | | 0.00 | 498.61 |
| BENZ(GHI)PE | | 32.90 | | 0.00 | 32.90 |
| BENZENE | 160.61 | 81,595.46 | 402,310.05 | 5,959.01 | 490,025.13 |
| BENZO(A)PYRE | 0.00 | 65.80 | | 0.00 | 65.80 |
| BENZO(B)FLUO | 0.00 | 65.80 | | 0.00 | 65.80 |
| BENZO(K)FLUO | | 32.90 | | 0.00 | 32.90 |
| BERYLLIUM | 3.00 | 0.00 | | | 3.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 52,002.70 | 2.37 | 52,005.07 |
| CADMIUM | 38.11 | 0.77 | | | 38.88 |
| CARBON TETRA | 0.20 | 0.00 | | | 0.20 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | 0.59 | 227.40 | | | 227.99 |
| CHROMIUM | 476.78 | 0.04 | 8.47 | | 485.28 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 17.43 | 165.00 | | 0.00 | 182.43 |
| COBALT | 7.12 | | | | 7.12 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 47.92 | | 1,520.28 | | 1,568.20 |
| DIBENZAHAN | | 32.90 | | 0.00 | 32.90 |
| DIBROMOET,12 | | 10.17 | | | 10.17 |
| DIBUTYL PHTH | 0.04 | 24.40 | | | 24.44 |
| DICHLORETH12 | | 105.47 | | | 105.47 |
| DIEYLHEX PHT | 18.54 | | | | 18.54 |
| DIOCTYL PHTH | 18.54 | | | | 18.54 |
| ETHYLBENZENE | 25.69 | 20,586.31 | 170,331.15 | 2,280.87 | 193,224.02 |
| ETHYLENE OXI | | 3,466.46 | | | 3,466.46 |
| FLUORANTHENE | 0.22 | 197.40 | | 0.00 | 197.62 |
| FLUORENE | 0.00 | 230.30 | | | 230.30 |
| FORMALDEHYDE | 1,454.91 | 290.94 | 145,420.14 | 49,200.21 | 196,366.19 |
| GLYCOL ETHRS | | 9,290.18 | | | 9,290.18 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 65.80 | | 0.00 | 65.80 |
| LEAD | 2,655.84 | | 399.23 | | 3,055.07 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 89.84 | 3.62 | 15.55 | | 109.02 |
| MERCURY | 17.13 | 1.86 | 6.88 | | 25.87 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 4,414.17 | 66,757.72 | | | 71,171.89 |
| NAPHTHALENE | 638.48 | 21,992.78 | 25,506.25 | 0.10 | 48,137.61 |
| NICKEL | 209.74 | 0.06 | 10.45 | | 220.25 |
| PARATHION | | | | | 0.00 |
| PCBS | 0.47 | | | | 0.47 |
| PCDD | 0.0166 | | | | 0.0166 |
| PCDF | 0.0742 | | | | 0.0742 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 7.81 | 298,915.17 | | | 298,922.98 |
| PHENANTHRENE | 0.24 | 8,044.08 | | 0.00 | 8,044.32 |
| PHENOL | 429.56 | | | 0.40 | 429.95 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.06 | 164.50 | | 0.00 | 164.56 |
| STYRENE | | | 92,480.22 | 0.57 | 92,480.79 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | 0.0118 | | | | 0.0118 |
| TCE,111 | 36.92 | 308,414.92 | | | 308,451.84 |
| TOLUENE | 308.95 | 401,268.78 | 1,172,068.76 | 10,148.05 | 1,583,794.55 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 17,912.44 | 207,815.63 | | | 225,728.07 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 613.59 | | | 613.59 |
| VINYL CHLOR | 126.87 | | | | 126.87 |
| XYLENE,M | | 2,265.15 | 336,449.75 | 6,328.04 | 345,042.94 |
| XYLENE,O | | 14,631.92 | 181,935.21 | 3,096.29 | 199,663.42 |
| XYLENE,P | | 2,265.15 | | | 2,265.15 |
| XYLENES ISO | 102.62 | 209,144.53 | 661,963.03 | 5.53 | 871,215.71 |

# Michigan - Kalkaska Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 71.20 | | | 71.20 |
| ACENAPHTHYL | | 807.00 | | | 807.00 |
| ACETALDEHYDE | 18.52 | | 3,617.02 | 2,266.69 | 5,902.23 |
| ACROLEIN | | | 513.79 | | 513.79 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 94.89 | | | 94.89 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.03 | | 0.03 |
| ATRAZINE | | 484.11 | | | 484.11 |
| BENZ(A)ANTHR | 3.52 | 284.66 | | | 288.18 |
| BENZ(GHI)PE | | 23.72 | | | 23.72 |
| BENZENE | | 21,103.84 | 20,756.00 | 4,295.30 | 46,155.14 |
| BENZO(A)PYRE | | 47.44 | | | 47.44 |
| BENZO(B)FLUO | | 47.44 | | | 47.44 |
| BENZO(K)FLUO | | 23.72 | | | 23.72 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 2,682.96 | | 2,682.96 |
| CADMIUM | 8.11 | 0.55 | | | 8.66 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 15.30 | | | 15.30 |
| CHROMIUM | 15.59 | 0.01 | 0.67 | | 16.27 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 119.00 | | | 119.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 81.10 | | 106.86 | | 187.95 |
| DIBENZAHAN | | 23.72 | | | 23.72 |
| DIBROMOET,12 | | 0.71 | | | 0.71 |
| DIBUTYL PHTH | | 486.59 | | | 486.59 |
| DICHLORETH12 | | 7.33 | | | 7.33 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 1,359.13 | 8,982.36 | 1,644.49 | 11,985.98 |
| ETHYLENE OXI | | 233.47 | | | 233.47 |
| FLUORANTHENE | 1.41 | 142.33 | | | 143.74 |
| FLUORENE | | 166.05 | | | 166.05 |
| FORMALDEHYDE | 1,863.40 | 19.56 | 9,563.42 | 6,706.60 | 18,152.99 |
| GLYCOL ETHRS | | 624.68 | | | 624.68 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 47.44 | | | 47.44 |
| LEAD | | | 37.15 | | 37.15 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 93.99 | 2.61 | 1.18 | | 97.78 |
| MERCURY | 23.19 | 0.15 | 0.79 | | 24.13 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 4,485.80 | | | 4,485.80 |
| NAPHTHALENE | 7.07 | 3,489.14 | 1,323.47 | | 4,819.67 |
| NICKEL | 134.77 | 0.03 | 0.86 | | 135.67 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 17,389.16 | | | 17,389.16 |
| PHENANTHRENE | | 5,800.04 | | | 5,800.04 |
| PHENOL | 1,016.39 | | | | 1,016.39 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 118.61 | | | 118.61 |
| STYRENE | | | 5,405.80 | | 5,405.80 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 20,721.45 | | | 20,721.45 |
| TOLUENE | 578.93 | 31,551.03 | 61,299.05 | 7,314.28 | 100,743.29 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 13,957.88 | | | 13,957.88 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 14.86 | | | 14.86 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 152.14 | 17,407.77 | 4,565.29 | 22,125.20 |
| XYLENE,O | | 2,735.07 | 9,546.47 | 2,233.55 | 14,515.10 |
| XYLENE,P | | 152.14 | | | 152.14 |
| XYLENES ISO | 1,289.11 | 13,883.80 | 34,690.03 | | 49,862.94 |

# Michigan - Kent Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.06 | 198.00 | | | 198.06 |
| ACENAPHTHYL | 0.11 | 2,240.00 | | | 2,240.11 |
| ACETALDEHYDE | 6.22 | | 100,305.55 | 38,102.76 | 138,414.53 |
| ACROLEIN | 0.01 | | 14,928.08 | 24.05 | 14,952.14 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.10 | 264.00 | | 0.00 | 264.10 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.77 | 0.03 | 0.74 | | 1.53 |
| ATRAZINE | | 34,282.00 | | | 34,282.00 |
| BENZ(A)ANTHR | 0.00 | 791.99 | | 0.00 | 791.99 |
| BENZ(GHI)PE | 0.00 | 66.00 | | 0.00 | 66.00 |
| BENZENE | 900.90 | 104,709.27 | 744,364.42 | 27,460.71 | 877,435.29 |
| BENZO(A)PYRE | 273.59 | 132.00 | | 0.00 | 405.59 |
| BENZO(B)FLUO | 0.01 | 132.00 | | 0.00 | 132.01 |
| BENZO(K)FLUO | | 66.00 | | 0.00 | 66.00 |
| BERYLLIUM | 0.01 | 0.00 | | | 0.01 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 96,216.73 | 29.84 | 96,246.56 |
| CADMIUM | 6,571.23 | 1.53 | | | 6,572.76 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 536.58 | | | 536.58 |
| CHROMIUM | 1.79 | 0.06 | 15.29 | | 17.14 |
| CHROMIUM VI | 0.07 | | | | 0.07 |
| CHRYSENE | 0.09 | 330.00 | | 0.00 | 330.09 |
| COBALT | 0.18 | | | | 0.18 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 11.56 | | 3,344.36 | | 3,355.92 |
| DIBENZAHAN | | 66.00 | | 0.00 | 66.00 |
| DIBROMOET,12 | 0.16 | 3.27 | | | 3.43 |
| DIBUTYL PHTH | | 3,581.14 | | | 3,581.14 |
| DICHLORETH12 | 1.67 | 37.06 | | | 38.73 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.14 | 85,386.67 | 314,772.58 | 10,503.25 | 410,662.64 |
| ETHYLENE OXI | 24,650.00 | 8,179.39 | | | 32,829.39 |
| FLUORANTHENE | 0.23 | 395.99 | | 0.00 | 396.22 |
| FLUORENE | 0.02 | 461.99 | | | 462.01 |
| FORMALDEHYDE | 3,121.59 | 686.49 | 255,950.82 | 112,834.19 | 372,593.09 |
| GLYCOL ETHRS | | 21,921.04 | | | 21,921.04 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.00 | 132.00 | | 0.00 | 132.00 |
| LEAD | 2,505.14 | | 664.17 | | 3,169.31 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 1,087.02 | 7.26 | 28.60 | | 1,122.88 |
| MERCURY | 6,581.05 | 3.24 | 10.03 | | 6,594.33 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 15,102.70 | 156,710.03 | | | 171,812.73 |
| NAPHTHALENE | 13.00 | 42,831.82 | 47,188.38 | 3.57 | 90,036.76 |
| NICKEL | 0.88 | 0.11 | 18.47 | | 19.45 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0000 | | | | 0.0000 |
| PCDF | 0.0201 | | | | 0.0201 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 3,008.04 | 360,120.43 | | | 363,128.47 |
| PHENANTHRENE | 0.64 | 16,136.75 | | 0.01 | 16,137.40 |
| PHENOL | 0.82 | | | 4.08 | 4.90 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.04 | 329.99 | | 0.00 | 330.03 |
| STYRENE | 762.66 | | 170,487.81 | 4.38 | 171,254.85 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | 0.0000 | | | | 0.0000 |
| TCE,111 | 110.25 | 723,324.64 | | | 723,434.89 |
| TOLUENE | 2,201.35 | 3,493,814.13 | 2,167,716.36 | 46,715.90 | 5,710,447.74 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 205,821.56 | 486,188.69 | | | 692,010.25 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 300.20 | | | 300.20 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 5,299.33 | 622,482.16 | 29,150.71 | 656,932.20 |
| XYLENE,O | | 352,111.06 | 336,537.86 | 14,265.11 | 702,914.03 |
| XYLENE,P | | 5,299.33 | | | 5,299.33 |
| XYLENES ISO | 3,871.22 | 744,896.43 | 1,223,849.59 | 8.78 | 1,972,626.02 |

# Michigan - Keweenaw Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 9.81 | | | 9.81 |
| ACENAPHTHYL | | 111.00 | | | 111.00 |
| ACETALDEHYDE | | | 453.60 | 10,418.01 | 10,871.61 |
| ACROLEIN | | | 64.46 | | 64.46 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 13.08 | | | 13.08 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.00 | | 0.00 |
| ATRAZINE | | 0.00 | | | 0.00 |
| BENZ(A)ANTHR | | 39.24 | | | 39.24 |
| BENZ(GHI)PE | | 3.27 | | | 3.27 |
| BENZENE | | 2,522.43 | 2,607.95 | 3,156.78 | 8,287.16 |
| BENZO(A)PYRE | | 6.54 | | | 6.54 |
| BENZO(B)FLUO | | 6.54 | | | 6.54 |
| BENZO(K)FLUO | | 3.27 | | | 3.27 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 337.11 | | 337.11 |
| CADMIUM | | 0.08 | | | 0.08 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 2.03 | | | 2.03 |
| CHROMIUM | | 0.00 | 0.08 | | 0.08 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 16.40 | | | 16.40 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 13.24 | | 13.24 |
| DIBENZAHAN | | 3.27 | | | 3.27 |
| DIBROMOET,12 | | 0.00 | | | 0.00 |
| DIBUTYL PHTH | | 63.93 | | | 63.93 |
| DICHLORETH12 | | 0.01 | | | 0.01 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 164.43 | 1,127.71 | 1,208.59 | 2,500.73 |
| ETHYLENE OXI | | 30.92 | | | 30.92 |
| FLUORANTHENE | | 19.62 | | | 19.62 |
| FLUORENE | | 22.89 | | | 22.89 |
| FORMALDEHYDE | | 2.59 | 1,199.03 | 30,824.43 | 32,026.05 |
| GLYCOL ETHRS | | 82.91 | | | 82.91 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 6.54 | | | 6.54 |
| LEAD | | | 4.40 | | 4.40 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 0.36 | 0.13 | | 0.49 |
| MERCURY | | 0.02 | 0.10 | | 0.11 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 591.72 | | | 591.72 |
| NAPHTHALENE | | 433.09 | 166.25 | | 599.34 |
| NICKEL | | 0.00 | 0.10 | | 0.10 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 700.88 | | | 700.88 |
| PHENANTHRENE | | 799.55 | | | 799.55 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 16.35 | | | 16.35 |
| STYRENE | | | 675.78 | | 675.78 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 2,730.43 | | | 2,730.43 |
| TOLUENE | | 3,002.73 | 7,697.65 | 5,375.54 | 16,075.92 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 1,833.78 | | | 1,833.78 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 0.00 | | | 0.00 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 19.99 | 2,186.97 | 3,355.20 | 5,562.16 |
| XYLENE,O | | 318.89 | 1,198.57 | 1,641.52 | 3,158.98 |
| XYLENE,P | | 19.99 | | | 19.99 |
| XYLENES ISO | | 1,259.88 | 4,356.13 | | 5,616.01 |

# Michigan - Lake Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 55.70 | | | 55.70 |
| ACENAPHTHYL | | 631.00 | | | 631.00 |
| ACETALDEHYDE | | | 2,298.61 | 2,919.39 | 5,218.00 |
| ACROLEIN | | | 326.54 | | 326.54 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 74.29 | | | 74.29 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.02 | | 0.02 |
| ATRAZINE | | 160.22 | | | 160.22 |
| BENZ(A)ANTHR | | 222.88 | | | 222.88 |
| BENZ(GHI)PE | | 18.57 | | | 18.57 |
| BENZENE | | 15,539.19 | 13,196.13 | 9,044.14 | 37,779.46 |
| BENZO(A)PYRE | | 37.15 | | | 37.15 |
| BENZO(B)FLUO | | 37.15 | | | 37.15 |
| BENZO(K)FLUO | | 18.57 | | | 18.57 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 1,705.76 | | 1,705.76 |
| CADMIUM | | 0.43 | | | 0.43 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 10.07 | | | 10.07 |
| CHROMIUM | | 0.01 | 0.42 | | 0.43 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 92.90 | | | 92.90 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 68.22 | | 68.22 |
| DIBENZAHAN | | 18.57 | | | 18.57 |
| DIBROMOET,12 | | 0.57 | | | 0.57 |
| DIBUTYL PHTH | | 311.38 | | | 311.38 |
| DICHLORETH12 | | 5.85 | | | 5.85 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 882.34 | 5,710.66 | 3,462.61 | 10,055.61 |
| ETHYLENE OXI | | 153.37 | | | 153.37 |
| FLUORANTHENE | | 111.44 | | | 111.44 |
| FLUORENE | | 130.01 | | | 130.01 |
| FORMALDEHYDE | | 12.87 | 6,077.21 | 8,637.78 | 14,727.86 |
| GLYCOL ETHRS | | 411.20 | | | 411.20 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 37.15 | | | 37.15 |
| LEAD | | | 23.43 | | 23.43 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 2.04 | 0.74 | | 2.78 |
| MERCURY | | 0.17 | 0.50 | | 0.67 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 2,902.93 | | | 2,902.93 |
| NAPHTHALENE | | 2,610.44 | 841.42 | | 3,451.86 |
| NICKEL | | 0.02 | 0.54 | | 0.57 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 3,418.75 | | | 3,418.75 |
| PHENANTHRENE | | 4,541.08 | | | 4,541.08 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 92.86 | | | 92.86 |
| STYRENE | | | 3,436.68 | | 3,436.68 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 13,368.85 | | | 13,368.85 |
| TOLUENE | | 18,298.49 | 38,972.11 | 15,400.88 | 72,671.48 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 8,931.25 | | | 8,931.25 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 21.66 | | | 21.66 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 97.35 | 11,067.40 | 9,612.63 | 20,777.38 |
| XYLENE,O | | 1,799.23 | 6,069.37 | 4,702.95 | 12,571.55 |
| XYLENE,P | | 97.35 | | | 97.35 |
| XYLENES ISO | | 9,006.66 | 22,054.79 | | 31,061.45 |

# Michigan - Lapeer Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 95.40 | | | 95.40 |
| ACENAPHTHYL | | 1,080.00 | | | 1,080.00 |
| ACETALDEHYDE | | | 17,402.65 | 5,758.84 | 23,161.50 |
| ACROLEIN | | | 2,473.38 | 0.10 | 2,473.47 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 127.26 | | 0.00 | 127.26 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.15 | | 0.16 |
| ATRAZINE | | 41,228.33 | | | 41,228.33 |
| BENZ(A)ANTHR | | 381.79 | | 0.00 | 381.79 |
| BENZ(GHI)PE | | 31.82 | | 0.00 | 31.82 |
| BENZENE | | 45,393.96 | 100,214.25 | 2,103.24 | 147,711.45 |
| BENZO(A)PYRE | | 63.63 | | 0.00 | 63.63 |
| BENZO(B)FLUO | | 63.63 | | 0.00 | 63.63 |
| BENZO(K)FLUO | | 31.82 | | 0.00 | 31.82 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 12,953.88 | 0.16 | 12,954.04 |
| CADMIUM | | 0.73 | | | 0.73 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 86.09 | | | 86.09 |
| CHROMIUM | | 0.02 | 3.27 | | 3.30 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 159.00 | | 0.00 | 159.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 533.03 | | 533.03 |
| DIBENZAHAN | | 31.82 | | 0.00 | 31.82 |
| DIBROMOET,12 | | 4.04 | | | 4.04 |
| DIBUTYL PHTH | | 2,706.55 | | | 2,706.55 |
| DICHLORETH12 | | 41.81 | | | 41.81 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 8,425.16 | 43,354.07 | 805.21 | 52,584.44 |
| ETHYLENE OXI | | 1,312.28 | | | 1,312.28 |
| FLUORANTHENE | | 190.90 | | 0.00 | 190.90 |
| FLUORENE | | 222.71 | | | 222.71 |
| FORMALDEHYDE | | 110.15 | 45,993.42 | 17,039.18 | 63,142.75 |
| GLYCOL ETHRS | | 3,517.11 | | | 3,517.11 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 63.63 | | 0.00 | 63.63 |
| LEAD | | | 179.55 | | 179.55 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 3.50 | 5.76 | | 9.26 |
| MERCURY | | 0.49 | 3.76 | | 4.25 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 25,071.07 | | | 25,071.07 |
| NAPHTHALENE | | 10,207.94 | 6,389.43 | 0.00 | 16,597.37 |
| NICKEL | | 0.04 | 4.20 | | 4.24 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 96,749.07 | | | 96,749.07 |
| PHENANTHRENE | | 7,779.04 | | 0.00 | 7,779.04 |
| PHENOL | | | | 0.03 | 0.03 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 159.08 | | 0.00 | 159.08 |
| STYRENE | | | 26,054.39 | 0.05 | 26,054.44 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 115,660.99 | | | 115,660.99 |
| TOLUENE | | 207,255.23 | 295,904.24 | 3,581.71 | 506,741.18 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 77,634.94 | | | 77,634.94 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 467.10 | | | 467.10 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 846.20 | 84,044.77 | 2,234.99 | 87,125.96 |
| XYLENE,O | | 12,369.64 | 46,080.96 | 1,093.49 | 59,544.09 |
| XYLENE,P | | 846.20 | | | 846.20 |
| XYLENES ISO | 8,580.00 | 84,066.83 | 167,450.51 | 0.52 | 260,097.86 |

# Michigan - Leelanau Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 74.50 | | | 74.50 |
| ACENAPHTHYL | | 844.00 | | | 844.00 |
| ACETALDEHYDE | | | 4,420.96 | 5,182.60 | 9,603.56 |
| ACROLEIN | | | 627.94 | | 627.94 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 99.30 | | | 99.30 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.04 | | 0.04 |
| ATRAZINE | | 2,684.12 | | | 2,684.12 |
| BENZ(A)ANTHR | | 297.89 | | | 297.89 |
| BENZ(GHI)PE | | 24.82 | | | 24.82 |
| BENZENE | | 20,583.36 | 25,359.41 | 2,283.30 | 48,226.07 |
| BENZO(A)PYRE | | 49.65 | | | 49.65 |
| BENZO(B)FLUO | | 49.65 | | | 49.65 |
| BENZO(K)FLUO | | 24.82 | | | 24.82 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 3,278.01 | | 3,278.01 |
| CADMIUM | | 0.57 | | | 0.57 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 18.66 | | | 18.66 |
| CHROMIUM | | 0.01 | 0.82 | | 0.83 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 124.00 | | | 124.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 131.67 | | 131.67 |
| DIBENZAHAN | | 24.82 | | | 24.82 |
| DIBROMOET,12 | | 0.35 | | | 0.35 |
| DIBUTYL PHTH | | 581.08 | | | 581.08 |
| DICHLORETH12 | | 3.68 | | | 3.68 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 1,547.63 | 10,974.96 | 874.18 | 13,396.77 |
| ETHYLENE OXI | | 284.75 | | | 284.75 |
| FLUORANTHENE | | 148.94 | | | 148.94 |
| FLUORENE | | 173.77 | | | 173.77 |
| FORMALDEHYDE | | 23.87 | 11,689.57 | 15,334.08 | 27,047.52 |
| GLYCOL ETHRS | | 762.19 | | | 762.19 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 49.65 | | | 49.65 |
| LEAD | | | 45.51 | | 45.51 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 2.73 | 1.45 | | 4.18 |
| MERCURY | | 0.25 | 0.96 | | 1.21 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 5,402.60 | | | 5,402.60 |
| NAPHTHALENE | | 3,645.90 | 1,617.01 | | 5,262.91 |
| NICKEL | | 0.03 | 1.06 | | 1.09 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 20,775.90 | | | 20,775.90 |
| PHENANTHRENE | | 6,069.50 | | | 6,069.50 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 124.12 | | | 124.12 |
| STYRENE | | | 6,606.11 | | 6,606.11 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 24,898.97 | | | 24,898.97 |
| TOLUENE | | 28,671.11 | 74,896.18 | 3,888.13 | 107,455.42 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 16,667.46 | | | 16,667.46 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 30.88 | | | 30.88 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 181.67 | 21,268.69 | 2,426.82 | 23,877.18 |
| XYLENE,O | | 2,442.93 | 11,664.10 | 1,187.32 | 15,294.34 |
| XYLENE,P | | 181.67 | | | 181.67 |
| XYLENES ISO | | 13,464.16 | 42,385.01 | | 55,849.17 |

# Michigan - Lenawee Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.06 | 59.40 | | | 59.46 |
| ACENAPHTHYL | 0.78 | 673.00 | | | 673.78 |
| ACETALDEHYDE | 53.40 | | 15,769.11 | 8,131.60 | 23,954.10 |
| ACROLEIN | 0.07 | | 2,245.18 | 0.76 | 2,246.02 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.68 | 79.13 | | 0.00 | 79.81 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.21 | 0.01 | 0.13 | | 0.35 |
| ATRAZINE | | 91,907.07 | | | 91,907.07 |
| BENZ(A)ANTHR | 0.03 | 237.40 | | 0.00 | 237.43 |
| BENZ(GHI)PE | 0.00 | 19.78 | | 0.00 | 19.78 |
| BENZENE | 154.51 | 34,568.11 | 91,790.39 | 6,433.96 | 132,946.97 |
| BENZO(A)PYRE | 0.00 | 39.57 | | 0.00 | 39.57 |
| BENZO(B)FLUO | | 39.57 | | 0.00 | 39.57 |
| BENZO(K)FLUO | | 19.78 | | 0.00 | 19.78 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 11,864.99 | 0.83 | 11,865.82 |
| CADMIUM | 0.05 | 0.46 | | | 0.51 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 96.96 | | | 96.96 |
| CHROMIUM | 0.31 | 0.02 | 2.93 | | 3.26 |
| CHROMIUM VI | 0.11 | | | | 0.11 |
| CHRYSENE | 0.77 | 98.90 | | 0.00 | 99.67 |
| COBALT | 0.31 | | | | 0.31 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.46 | | 477.96 | | 478.42 |
| DIBENZAHAN | | 19.78 | | 0.00 | 19.78 |
| DIBROMOET,12 | | 3.80 | | | 3.80 |
| DIBUTYL PHTH | | 3,072.78 | | | 3,072.78 |
| DICHLORETH12 | | 39.33 | | | 39.33 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.09 | 9,528.39 | 39,659.70 | 2,463.08 | 51,651.25 |
| ETHYLENE OXI | | 1,479.81 | | | 1,479.81 |
| FLUORANTHENE | 1.60 | 118.70 | | 0.00 | 120.30 |
| FLUORENE | 0.17 | 138.48 | | | 138.65 |
| FORMALDEHYDE | 262.38 | 124.05 | 41,622.21 | 24,060.09 | 66,068.73 |
| GLYCOL ETHRS | | 3,961.11 | | | 3,961.11 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.01 | 39.57 | | 0.00 | 39.58 |
| LEAD | 40.03 | | 159.98 | | 200.01 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 69.05 | 2.18 | 5.16 | | 76.38 |
| MERCURY | 0.12 | 0.55 | 3.34 | | 4.01 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 28,373.35 | | | 28,373.35 |
| NAPHTHALENE | 40.94 | 9,679.99 | 5,850.37 | 0.01 | 15,571.31 |
| NICKEL | 1.36 | 0.03 | 3.75 | | 5.14 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0002 | | | | 0.0002 |
| PCDF | 0.0009 | | | | 0.0009 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 109,820.95 | | | 109,820.95 |
| PHENANTHRENE | 1.01 | 4,837.05 | | 0.00 | 4,838.06 |
| PHENOL | 6.94 | | | 0.13 | 7.07 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.30 | 98.92 | | 0.00 | 99.22 |
| STYRENE | 9.00 | | 23,699.26 | 0.21 | 23,708.47 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 10,736.38 | 131,008.48 | | | 141,744.86 |
| TOLUENE | 2,310.93 | 226,227.84 | 270,815.39 | 10,956.04 | 510,310.19 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 9,397.36 | 88,141.83 | | | 97,539.19 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 2,594.27 | | | 2,594.27 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 960.72 | 76,967.12 | 6,836.65 | 84,764.49 |
| XYLENE,O | | 13,143.50 | 42,165.63 | 3,344.92 | 58,654.05 |
| XYLENE,P | | 960.72 | | | 960.72 |
| XYLENES ISO | 709.06 | 92,089.09 | 153,236.08 | 1.58 | 246,035.81 |

# Michigan - Livingston Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 73.10 | | | 73.10 |
| ACENAPHTHYL | | 828.00 | | | 828.00 |
| ACETALDEHYDE | | | 22,653.14 | 11,782.28 | 34,435.41 |
| ACROLEIN | | | 3,165.30 | 1.01 | 3,166.31 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 97.42 | | 0.00 | 97.42 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.00 | 0.01 | 0.21 | | 0.22 |
| ATRAZINE | | 26,153.83 | | | 26,153.83 |
| BENZ(A)ANTHR | | 292.25 | | 0.00 | 292.25 |
| BENZ(GHI)PE | | 24.35 | | 0.00 | 24.35 |
| BENZENE | 25.05 | 53,476.38 | 117,094.68 | 3,283.83 | 173,879.93 |
| BENZO(A)PYRE | | 48.71 | | 0.00 | 48.71 |
| BENZO(B)FLUO | | 48.71 | | 0.00 | 48.71 |
| BENZO(K)FLUO | | 24.35 | | 0.00 | 24.35 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 15,135.83 | 1.68 | 15,137.51 |
| CADMIUM | 0.00 | 0.56 | | | 0.56 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 140.51 | | | 140.51 |
| CHROMIUM | | 0.02 | 3.80 | | 3.82 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | | 122.00 | | 0.00 | 122.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.00 | | 811.97 | | 811.97 |
| DIBENZAHAN | | 24.35 | | 0.00 | 24.35 |
| DIBROMOET,12 | | 6.22 | | | 6.22 |
| DIBUTYL PHTH | | 4,361.66 | | | 4,361.66 |
| DICHLORETH12 | | 64.54 | | | 64.54 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 12,828.83 | 50,590.91 | 1,256.92 | 64,676.66 |
| ETHYLENE OXI | | 2,141.97 | | | 2,141.97 |
| FLUORANTHENE | 0.01 | 146.13 | | 0.00 | 146.14 |
| FLUORENE | | 170.48 | | | 170.48 |
| FORMALDEHYDE | | 179.77 | 60,602.44 | 34,862.31 | 95,644.52 |
| GLYCOL ETHRS | | 5,740.36 | | | 5,740.36 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 48.71 | | 0.00 | 48.71 |
| LEAD | | | 224.31 | | 224.31 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 5.13 | 2.68 | 6.51 | | 14.32 |
| MERCURY | 2.73 | 1.04 | 5.09 | | 8.86 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 40,607.19 | | | 40,607.19 |
| NAPHTHALENE | | 13,939.34 | 7,454.25 | 0.01 | 21,393.61 |
| NICKEL | 0.00 | 0.04 | 4.96 | | 5.01 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 155,956.66 | | | 155,956.66 |
| PHENANTHRENE | | 5,954.65 | | 0.00 | 5,954.65 |
| PHENOL | | | | 0.31 | 0.31 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 121.77 | | 0.00 | 121.77 |
| STYRENE | 8,859.65 | | 29,722.15 | 0.49 | 38,582.29 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 29.61 | 187,077.34 | | | 187,106.95 |
| TOLUENE | 81.98 | 268,271.17 | 344,856.86 | 5,594.01 | 618,804.02 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 16,240.00 | 125,105.45 | | | 141,345.45 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 321.83 | | | 321.83 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 1,363.60 | 98,126.36 | 3,485.31 | 102,975.27 |
| XYLENE,O | | 10,391.00 | 53,600.49 | 1,705.43 | 65,696.93 |
| XYLENE,P | | 1,363.60 | | | 1,363.60 |
| XYLENES ISO | 25.05 | 129,451.57 | 195,379.50 | 5.72 | 324,861.84 |

# Michigan - Luce Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.06 | 32.80 | | | 32.86 |
| ACENAPHTHYL | 0.83 | 372.00 | | | 372.83 |
| ACETALDEHYDE | 56.37 | | 1,541.76 | 3,252.20 | 4,850.33 |
| ACROLEIN | 0.08 | | 219.05 | | 219.13 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.71 | 43.79 | | | 44.50 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.03 | 0.00 | 0.01 | | 0.04 |
| ATRAZINE | | 0.00 | | | 0.00 |
| BENZ(A)ANTHR | 0.03 | 131.38 | | | 131.41 |
| BENZ(GHI)PE | 0.00 | 10.95 | | | 10.95 |
| BENZENE | 67.64 | 9,561.07 | 8,857.30 | 4,607.08 | 23,093.09 |
| BENZO(A)PYRE | 0.00 | 21.90 | | | 21.90 |
| BENZO(B)FLUO | | 21.90 | | | 21.90 |
| BENZO(K)FLUO | | 10.95 | | | 10.95 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 1,144.91 | | 1,144.91 |
| CADMIUM | 0.01 | 0.25 | | | 0.26 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 6.54 | | | 6.54 |
| CHROMIUM | 0.04 | 0.01 | 0.28 | | 0.33 |
| CHROMIUM VI | 0.01 | | | | 0.01 |
| CHRYSENE | 0.81 | 54.70 | | | 55.51 |
| COBALT | 0.04 | | | | 0.04 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.06 | | 44.41 | | 44.47 |
| DIBENZAHAN | | 10.95 | | | 10.95 |
| DIBROMOET,12 | | 0.31 | | | 0.31 |
| DIBUTYL PHTH | | 205.33 | | | 205.33 |
| DICHLORETH12 | | 3.22 | | | 3.22 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 562.07 | 3,832.19 | 1,763.85 | 6,158.11 |
| ETHYLENE OXI | | 100.14 | | | 100.14 |
| FLUORANTHENE | 1.69 | 65.69 | | | 67.38 |
| FLUORENE | 0.18 | 76.64 | | | 76.82 |
| FORMALDEHYDE | 13,084.01 | 8.36 | 4,075.87 | 9,622.48 | 26,790.73 |
| GLYCOL ETHRS | | 267.20 | | | 267.20 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.01 | 21.90 | | | 21.91 |
| LEAD | 0.00 | | 15.62 | | 15.62 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 2.85 | 1.20 | 0.49 | | 4.54 |
| MERCURY | 0.12 | 0.07 | 0.33 | | 0.52 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 1,903.07 | | | 1,903.07 |
| NAPHTHALENE | 43.22 | 1,571.42 | 564.73 | | 2,179.37 |
| NICKEL | 0.18 | 0.01 | 0.36 | | 0.55 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0002 | | | | 0.0002 |
| PCDF | 0.0010 | | | | 0.0010 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 7,340.06 | | | 7,340.06 |
| PHENANTHRENE | 1.07 | 2,676.94 | | | 2,678.01 |
| PHENOL | 7.33 | | | | 7.33 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.31 | 54.74 | | | 55.05 |
| STYRENE | | | 2,303.64 | | 2,303.64 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 8,778.14 | | | 8,778.14 |
| TOLUENE | | 12,087.04 | 26,154.26 | 7,845.20 | 46,086.50 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 5,889.70 | | | 5,889.70 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 11.36 | | | 11.36 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 64.20 | 7,428.23 | 4,896.67 | 12,389.10 |
| XYLENE,O | | 1,065.67 | 4,072.96 | 2,395.68 | 7,534.32 |
| XYLENE,P | | 64.20 | | | 64.20 |
| XYLENES ISO | | 5,944.39 | 14,800.91 | | 20,745.30 |

# Michigan - Mackinac Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 64.20 | | | 64.20 |
| ACENAPHTHYL | | 728.00 | | | 728.00 |
| ACETALDEHYDE | | | 2,220.49 | 4,324.86 | 6,545.35 |
| ACROLEIN | | | 315.84 | 0.48 | 316.32 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 85.64 | | 0.00 | 85.64 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.02 | | 0.02 |
| ATRAZINE | | 0.00 | | | 0.00 |
| BENZ(A)ANTHR | | 256.91 | | 0.00 | 256.91 |
| BENZ(GHI)PE | | 21.41 | | 0.00 | 21.41 |
| BENZENE | | 20,723.14 | 12,844.79 | 2,974.06 | 36,541.99 |
| BENZO(A)PYRE | | 42.82 | | 0.00 | 42.82 |
| BENZO(B)FLUO | | 42.82 | | 0.00 | 42.82 |
| BENZO(K)FLUO | | 21.41 | | 0.00 | 21.41 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 1,660.34 | 0.41 | 1,660.75 |
| CADMIUM | | 0.49 | | | 0.49 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 10.98 | | | 10.98 |
| CHROMIUM | | 0.01 | 0.40 | | 0.42 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 107.00 | | 0.00 | 107.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 64.02 | | 64.02 |
| DIBENZAHAN | | 21.41 | | 0.00 | 21.41 |
| DIBROMOET,12 | | 1.19 | | | 1.19 |
| DIBUTYL PHTH | | 350.79 | | | 350.79 |
| DICHLORETH12 | | 12.24 | | | 12.24 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 1,012.68 | 5,552.43 | 1,138.52 | 7,703.62 |
| ETHYLENE OXI | | 167.77 | | | 167.77 |
| FLUORANTHENE | | 128.46 | | 0.00 | 128.46 |
| FLUORENE | | 149.87 | | | 149.87 |
| FORMALDEHYDE | | 14.04 | 5,865.36 | 12,796.53 | 18,675.93 |
| GLYCOL ETHRS | | 448.55 | | | 448.55 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 42.82 | | 0.00 | 42.82 |
| LEAD | | | 22.43 | | 22.43 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 2.36 | 0.71 | | 3.07 |
| MERCURY | | 0.12 | 0.47 | | 0.60 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 3,228.76 | | | 3,228.76 |
| NAPHTHALENE | | 3,217.12 | 818.76 | 0.01 | 4,035.89 |
| NICKEL | | 0.02 | 0.52 | | 0.54 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 3,841.58 | | | 3,841.58 |
| PHENANTHRENE | | 5,234.62 | | 0.00 | 5,234.62 |
| PHENOL | | | | 0.06 | 0.06 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 107.05 | | 0.00 | 107.05 |
| STYRENE | | | 3,323.97 | 0.09 | 3,324.07 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 14,921.23 | | | 14,921.23 |
| TOLUENE | | 26,131.66 | 37,906.88 | 5,063.93 | 69,102.47 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 10,062.58 | | | 10,062.58 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 46.15 | | | 46.15 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 109.68 | 10,771.04 | 3,160.42 | 14,041.14 |
| XYLENE,O | | 2,072.15 | 5,902.30 | 1,546.27 | 9,520.72 |
| XYLENE,P | | 109.68 | | | 109.68 |
| XYLENES ISO | | 14,071.03 | 21,450.30 | 0.30 | 35,521.64 |

# Michigan - Macomb Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 62.40 | | | 62.40 |
| ACENAPHTHYL | | 707.00 | | | 707.00 |
| ACETALDEHYDE | 0.03 | | 131,701.29 | 39,947.43 | 171,648.76 |
| ACROLEIN | | | 19,422.93 | 1.35 | 19,424.28 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | 304.45 | | | | 304.45 |
| ANTHRACENE | | 83.18 | | 0.00 | 83.18 |
| ANTIMONY | 0.28 | | | | 0.28 |
| ARSENIC | 718.16 | 0.06 | 0.98 | | 719.20 |
| ATRAZINE | | 13,343.09 | | | 13,343.09 |
| BENZ(A)ANTHR | 53.49 | 249.54 | | 0.00 | 303.03 |
| BENZ(GHI)PE | | 20.80 | | 0.00 | 20.80 |
| BENZENE | 1,424.17 | 126,241.11 | 933,631.66 | 17,654.99 | 1,078,951.93 |
| BENZO(A)PYRE | 0.00 | 41.59 | | 0.00 | 41.59 |
| BENZO(B)FLUO | | 41.59 | | 0.00 | 41.59 |
| BENZO(K)FLUO | | 20.80 | | 0.00 | 20.80 |
| BERYLLIUM | 0.12 | 0.00 | | | 0.12 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 120,681.19 | 1.34 | 120,682.52 |
| CADMIUM | 56.39 | 0.50 | | | 56.89 |
| CARBON TETRA | 0.12 | 0.00 | | | 0.12 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | 0.37 | 776.19 | | | 776.56 |
| CHROMIUM | 95.95 | 0.07 | 17.66 | | 113.68 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 8.91 | 104.00 | | 0.00 | 112.91 |
| COBALT | 2.04 | | | | 2.04 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 24.06 | | 4,407.30 | | 4,431.36 |
| DIBENZAHAN | | 20.80 | | 0.00 | 20.80 |
| DIBROMOET,12 | 0.00 | 11.09 | | | 11.09 |
| DIBUTYL PHTH | | 16,158.96 | | | 16,158.96 |
| DICHLORETH12 | 0.04 | 118.75 | | | 118.79 |
| DIEYLHEX PHT | 11.57 | | | | 11.57 |
| DIOCTYL PHTH | 11.57 | | | | 11.57 |
| ETHYLBENZENE | 10.52 | 72,555.27 | 394,049.51 | 6,758.98 | 473,374.28 |
| ETHYLENE OXI | | 11,831.26 | | | 11,831.26 |
| FLUORANTHENE | 0.08 | 124.77 | | 0.00 | 124.85 |
| FLUORENE | | 145.57 | | | 145.57 |
| FORMALDEHYDE | 287.69 | 993.02 | 338,461.81 | 118,195.94 | 457,938.46 |
| GLYCOL ETHRS | | 31,709.63 | | | 31,709.63 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 41.59 | | 0.00 | 41.59 |
| LEAD | 4,072.93 | | 810.11 | | 4,883.04 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 1,164.59 | 2.29 | 32.53 | | 1,199.40 |
| MERCURY | 590.62 | 6.17 | 13.59 | | 610.38 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 5,439.97 | 227,322.62 | | | 232,762.59 |
| NAPHTHALENE | 144.33 | 57,556.04 | 59,127.47 | 0.02 | 116,827.86 |
| NICKEL | 16.23 | 0.09 | 21.54 | | 37.85 |
| PARATHION | | | | | 0.00 |
| PCBS | 0.2923 | | | | 0.2923 |
| PCDD | 0.0104 | | | | 0.0104 |
| PCDF | 1.63 | | | | 1.63 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 30,804.87 | 752,059.32 | | | 782,864.19 |
| PHENANTHRENE | | 5,084.42 | | 0.00 | 5,084.42 |
| PHENOL | 267.97 | | | 0.20 | 268.17 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 103.98 | | 0.00 | 103.98 |
| STYRENE | | | 209,655.85 | 0.33 | 209,656.18 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | 0.0073 | | | | 0.0073 |
| TCE,111 | 21.80 | 1,049,771.93 | | | 1,049,793.73 |
| TOLUENE | 42,588.08 | 1,514,084.46 | 2,713,603.48 | 30,063.29 | 4,300,339.31 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 318,374.84 | 706,559.57 | | | 1,024,934.41 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 455.92 | | | 455.92 |
| VINYL CHLOR | 79.16 | | | | 79.16 |
| XYLENE,M | 0.00 | 7,701.33 | 780,368.30 | 18,762.29 | 806,831.93 |
| XYLENE,O | 0.00 | 76,515.20 | 420,849.21 | 9,179.56 | 506,543.97 |
| XYLENE,P | 0.00 | 7,701.33 | | | 7,701.33 |
| XYLENES ISO | 330.44 | 740,871.60 | 1,532,615.45 | 1.95 | 2,273,819.44 |

# Michigan - Manistee Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.04 | 79.20 | | | 79.24 |
| ACENAPHTHYL | 0.58 | 898.00 | | | 898.58 |
| ACETALDEHYDE | 40.58 | | 4,025.48 | 3,983.84 | 8,049.91 |
| ACROLEIN | 0.05 | | 572.89 | 0.00 | 572.95 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.50 | 105.66 | | 0.00 | 106.16 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 72.74 | 0.00 | 0.03 | | 72.78 |
| ATRAZINE | | 596.09 | | | 596.09 |
| BENZ(A)ANTHR | 0.23 | 316.97 | | 0.00 | 317.20 |
| BENZ(GHI)PE | 0.00 | 26.41 | | 0.00 | 26.41 |
| BENZENE | 47.42 | 27,708.92 | 23,367.01 | 3,423.86 | 54,547.20 |
| BENZO(A)PYRE | 0.00 | 52.83 | | 0.00 | 52.83 |
| BENZO(B)FLUO | | 52.83 | | 0.00 | 52.83 |
| BENZO(K)FLUO | | 26.41 | | 0.00 | 26.41 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 3,020.46 | 0.03 | 3,020.49 |
| CADMIUM | 6.25 | 0.61 | | | 6.86 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 22.92 | | | 22.92 |
| CHROMIUM | 89.94 | 0.01 | 0.74 | | 90.69 |
| CHROMIUM VI | 0.01 | | | | 0.01 |
| CHRYSENE | 0.57 | 132.00 | | 0.00 | 132.57 |
| COBALT | 0.02 | | | | 0.02 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 4.70 | | 119.75 | | 124.45 |
| DIBENZAHAN | | 26.41 | | 0.00 | 26.41 |
| DIBROMOET,12 | | 2.41 | | | 2.41 |
| DIBUTYL PHTH | | 726.87 | | | 726.87 |
| DICHLORETH12 | | 24.91 | | | 24.91 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 2,126.77 | 10,098.15 | 1,310.85 | 13,535.77 |
| ETHYLENE OXI | | 349.77 | | | 349.77 |
| FLUORANTHENE | 1.27 | 158.48 | | 0.00 | 159.75 |
| FLUORENE | 0.13 | 184.90 | | | 185.03 |
| FORMALDEHYDE | 1,176.08 | 29.33 | 10,628.74 | 11,787.26 | 23,621.41 |
| GLYCOL ETHRS | | 936.51 | | | 936.51 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.00 | 52.83 | | 0.00 | 52.83 |
| LEAD | 680.00 | | 40.74 | | 720.74 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 6.60 | 2.91 | 1.30 | | 10.81 |
| MERCURY | 2.55 | 0.34 | 0.85 | | 3.74 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 6,710.36 | | | 6,710.36 |
| NAPHTHALENE | 30.70 | 4,960.28 | 1,489.39 | 0.00 | 6,480.37 |
| NICKEL | 7.85 | 0.03 | 0.95 | | 8.84 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0002 | | | | 0.0002 |
| PCDF | 0.0007 | | | | 0.0007 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 25,978.11 | | | 25,978.11 |
| PHENANTHRENE | 0.75 | 6,458.23 | | 0.00 | 6,458.98 |
| PHENOL | 6.00 | | | 0.01 | 6.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.22 | 132.07 | | 0.00 | 132.29 |
| STYRENE | | | 6,038.86 | 0.01 | 6,038.87 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 30,985.58 | | | 30,985.58 |
| TOLUENE | 33.40 | 45,841.56 | 68,948.87 | 5,830.43 | 120,654.27 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 20,850.22 | | | 20,850.22 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 33.24 | | | 33.24 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 227.26 | 19,593.88 | 3,638.96 | 23,460.10 |
| XYLENE,O | | 2,624.49 | 10,735.43 | 1,780.36 | 15,140.27 |
| XYLENE,P | | 227.26 | | | 227.26 |
| XYLENES ISO | 74.38 | 26,775.44 | 39,014.60 | 0.15 | 65,864.58 |

# Michigan - Marqiette Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.04 | 138.00 | | | 138.04 |
| ACENAPHTHYL | 0.43 | 1,560.00 | | | 1,560.43 |
| ACETALDEHYDE | 29.18 | | 8,987.25 | 4,860.50 | 13,876.93 |
| ACROLEIN | 0.04 | | 1,282.76 | 0.02 | 1,282.82 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.37 | 183.85 | | 0.00 | 184.22 |
| ANTIMONY | 0.03 | | | | 0.03 |
| ARSENIC | 192.84 | 0.01 | 0.07 | | 192.92 |
| ATRAZINE | | 0.00 | | | 0.00 |
| BENZ(A)ANTHR | 33.92 | 551.55 | | 0.00 | 585.47 |
| BENZ(GHI)PE | 0.01 | 45.96 | | 0.00 | 45.97 |
| BENZENE | 40.62 | 48,891.00 | 53,095.80 | 9,333.50 | 111,360.92 |
| BENZO(A)PYRE | 0.00 | 91.93 | | 0.00 | 91.93 |
| BENZO(B)FLUO | 0.00 | 91.93 | | 0.00 | 91.93 |
| BENZO(K)FLUO | | 45.96 | | 0.00 | 45.96 |
| BERYLLIUM | 22.46 | 0.00 | | | 22.46 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 6,863.25 | 0.12 | 6,863.37 |
| CADMIUM | 12.92 | 1.06 | | | 13.98 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 61.08 | | | 61.08 |
| CHROMIUM | 400.85 | 0.03 | 1.63 | | 402.51 |
| CHROMIUM VI | 0.45 | | | | 0.45 |
| CHRYSENE | 6.06 | 230.00 | | 0.00 | 236.06 |
| COBALT | 1.30 | | | | 1.30 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 1.85 | | 266.70 | | 268.55 |
| DIBENZAHAN | | 45.96 | | 0.00 | 45.96 |
| DIBROMOET,12 | | 3.08 | | | 3.08 |
| DIBUTYL PHTH | 0.00 | 1,960.07 | | | 1,960.07 |
| DICHLORETH12 | | 31.92 | | | 31.92 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 5,269.14 | 22,901.24 | 3,573.38 | 31,743.77 |
| ETHYLENE OXI | | 931.69 | | | 931.69 |
| FLUORANTHENE | 0.88 | 275.78 | | 0.00 | 276.66 |
| FLUORENE | 0.09 | 321.74 | | | 321.83 |
| FORMALDEHYDE | 343.11 | 78.15 | 23,678.76 | 14,381.18 | 38,481.20 |
| GLYCOL ETHRS | | 2,495.43 | | | 2,495.43 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.00 | 91.93 | | 0.00 | 91.93 |
| LEAD | 161.61 | | 88.79 | | 250.41 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 530.58 | 5.06 | 2.88 | | 538.52 |
| MERCURY | 567.51 | 0.64 | 1.84 | | 569.98 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 18,010.43 | | | 18,010.43 |
| NAPHTHALENE | 22.64 | 9,524.80 | 3,382.56 | 0.00 | 12,930.00 |
| NICKEL | 327.82 | 0.06 | 2.09 | | 329.97 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0001 | | | | 0.0001 |
| PCDF | 0.0005 | | | | 0.0005 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 6.75 | 70,033.74 | | | 70,040.49 |
| PHENANTHRENE | 0.59 | 11,237.86 | | 0.00 | 11,238.45 |
| PHENOL | 3.79 | | | 0.03 | 3.82 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.16 | 229.81 | | 0.00 | 229.97 |
| STYRENE | | | 13,577.53 | 0.04 | 13,577.57 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 65.20 | 83,270.90 | | | 83,336.10 |
| TOLUENE | 14.49 | 100,205.31 | 156,480.73 | 15,894.00 | 272,594.52 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 56,225.98 | | | 56,225.98 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 25.63 | | | 25.63 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 612.85 | 44,511.01 | 9,919.67 | 55,043.53 |
| XYLENE,O | | 4,727.50 | 24,357.26 | 4,853.19 | 33,937.95 |
| XYLENE,P | | 612.85 | | | 612.85 |
| XYLENES ISO | 4.43 | 56,838.15 | 88,528.62 | 0.68 | 145,371.88 |

# Michigan - Mason Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 80.10 | | | 80.10 |
| ACENAPHTHYL | | 907.00 | | | 907.00 |
| ACETALDEHYDE | | | 4,731.31 | 4,064.53 | 8,795.84 |
| ACROLEIN | | | 673.42 | 0.14 | 673.56 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 106.74 | | 0.00 | 106.74 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.15 | 0.00 | 0.04 | | 0.19 |
| ATRAZINE | | 6,399.34 | | | 6,399.34 |
| BENZ(A)ANTHR | 0.00 | 320.22 | | 0.00 | 320.22 |
| BENZ(GHI)PE | | 26.69 | | 0.00 | 26.69 |
| BENZENE | 519.52 | 28,462.38 | 27,483.74 | 7,487.05 | 63,952.68 |
| BENZO(A)PYRE | | 53.37 | | 0.00 | 53.37 |
| BENZO(B)FLUO | | 53.37 | | 0.00 | 53.37 |
| BENZO(K)FLUO | | 26.69 | | 0.00 | 26.69 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 3,552.60 | 0.23 | 3,552.82 |
| CADMIUM | | 0.61 | | | 0.61 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 27.56 | | | 27.56 |
| CHROMIUM | | 0.01 | 0.87 | | 0.88 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | 0.00 | 133.00 | | 0.00 | 133.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 9.70 | | 141.73 | | 151.43 |
| DIBENZAHAN | | 26.69 | | 0.00 | 26.69 |
| DIBROMOET,12 | | 2.08 | | | 2.08 |
| DIBUTYL PHTH | | 875.10 | | | 875.10 |
| DICHLORETH12 | | 21.49 | | | 21.49 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.02 | 2,666.13 | 11,876.76 | 2,866.43 | 17,409.33 |
| ETHYLENE OXI | | 420.40 | | | 420.40 |
| FLUORANTHENE | 0.00 | 160.11 | | 0.00 | 160.11 |
| FLUORENE | | 186.80 | | | 186.80 |
| FORMALDEHYDE | 0.43 | 35.27 | 12,491.30 | 12,026.16 | 24,553.17 |
| GLYCOL ETHRS | | 1,125.85 | | | 1,125.85 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 53.37 | | 0.00 | 53.37 |
| LEAD | 160.00 | | 47.80 | | 207.80 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 1,997.10 | 2.94 | 1.53 | | 2,001.57 |
| MERCURY | | 0.29 | 1.00 | | 1.30 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 8,074.14 | | | 8,074.14 |
| NAPHTHALENE | 0.08 | 5,142.77 | 1,751.77 | 0.00 | 6,894.63 |
| NICKEL | | 0.03 | 1.12 | | 1.15 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 31,274.58 | | | 31,274.58 |
| PHENANTHRENE | | 6,524.50 | | 0.00 | 6,524.50 |
| PHENOL | 0.02 | | | 0.04 | 0.06 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 133.43 | | 0.00 | 133.43 |
| STYRENE | | | 7,101.63 | 0.07 | 7,101.70 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 37,288.76 | | | 37,288.76 |
| TOLUENE | 0.25 | 66,133.66 | 81,094.55 | 12,749.66 | 159,978.13 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 25,102.09 | | | 25,102.09 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 79.03 | | | 79.03 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 273.61 | 23,045.79 | 7,957.00 | 31,276.40 |
| XYLENE,O | | 4,473.73 | 12,626.52 | 3,892.97 | 20,993.22 |
| XYLENE,P | | 273.61 | | | 273.61 |
| XYLENES ISO | 1,200,000.05 | 30,006.29 | 45,886.88 | 0.77 | 1,275,893.99 |

# Michigan - Mecosta Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.02 | 91.70 | | | 91.72 |
| ACENAPHTHYL | 0.02 | 1,040.00 | | | 1,040.02 |
| ACETALDEHYDE | 1.24 | | 6,874.43 | 3,010.09 | 9,885.76 |
| ACROLEIN | 0.00 | | 978.39 | | 978.39 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.02 | 122.21 | | | 122.23 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.05 | 0.00 | 0.06 | | 0.11 |
| ATRAZINE | | 9,210.95 | | | 9,210.95 |
| BENZ(A)ANTHR | 0.00 | 366.62 | | | 366.62 |
| BENZ(GHI)PE | 0.00 | 30.55 | | | 30.55 |
| BENZENE | 13.49 | 32,520.36 | 39,920.32 | 2,317.01 | 74,771.18 |
| BENZO(A)PYRE | 0.00 | 61.10 | | | 61.10 |
| BENZO(B)FLUO | 0.00 | 61.10 | | | 61.10 |
| BENZO(K)FLUO | | 30.55 | | | 30.55 |
| BERYLLIUM | 0.01 | 0.00 | | | 0.01 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 5,160.17 | | 5,160.17 |
| CADMIUM | 0.03 | 0.70 | | | 0.73 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 38.97 | | | 38.97 |
| CHROMIUM | 0.18 | 0.02 | 1.27 | | 1.48 |
| CHROMIUM VI | 0.02 | | | | 0.02 |
| CHRYSENE | 0.02 | 153.00 | | | 153.02 |
| COBALT | 0.05 | | | | 0.05 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.08 | | 204.98 | | 205.06 |
| DIBENZAHAN | | 30.55 | | | 30.55 |
| DIBROMOET,12 | | 1.72 | | | 1.72 |
| DIBUTYL PHTH | | 1,217.80 | | | 1,217.80 |
| DICHLORETH12 | | 17.77 | | | 17.77 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 3,368.62 | 17,251.49 | 887.08 | 21,507.19 |
| ETHYLENE OXI | | 594.21 | | | 594.21 |
| FLUORANTHENE | 0.04 | 183.31 | | | 183.35 |
| FLUORENE | 0.00 | 213.86 | | | 213.86 |
| FORMALDEHYDE | 750.31 | 49.86 | 18,150.11 | 8,906.15 | 27,856.43 |
| GLYCOL ETHRS | | 1,591.89 | | | 1,591.89 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.00 | 61.10 | | | 61.10 |
| LEAD | 20.20 | | 69.74 | | 89.95 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 4.06 | 3.36 | 2.24 | | 9.66 |
| MERCURY | 6.30 | 0.34 | 1.46 | | 8.09 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 11,307.09 | | | 11,307.09 |
| NAPHTHALENE | 1.42 | 6,075.18 | 2,544.48 | | 8,621.08 |
| NICKEL | 0.27 | 0.03 | 1.63 | | 1.94 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0000 | | | | 0.0000 |
| PCDF | 0.0000 | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 43,537.48 | | | 43,537.48 |
| PHENANTHRENE | 0.16 | 7,469.82 | | | 7,469.98 |
| PHENOL | 0.16 | | | | 0.16 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.01 | 152.76 | | | 152.77 |
| STYRENE | | | 10,316.41 | | 10,316.41 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 9.24 | 52,130.04 | | | 52,139.28 |
| TOLUENE | 25.58 | 68,230.73 | 117,792.04 | 3,945.53 | 189,993.87 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 34,930.90 | | | 34,930.90 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 188.26 | | | 188.26 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 380.74 | 33,474.27 | 2,462.65 | 36,317.66 |
| XYLENE,O | | 3,573.58 | 18,340.40 | 1,204.84 | 23,118.83 |
| XYLENE,P | | 380.74 | | | 380.74 |
| XYLENES ISO | 7.81 | 34,755.50 | 66,652.14 | | 101,415.46 |

# Michigan - Menominee Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.02 | 86.40 | | | 86.42 |
| ACENAPHTHYL | 0.28 | 979.00 | | | 979.28 |
| ACETALDEHYDE | 18.97 | | 4,344.74 | 4,215.86 | 8,579.57 |
| ACROLEIN | 0.03 | | 618.64 | 0.15 | 618.82 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.24 | 115.20 | | 0.00 | 115.44 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 35.80 | 0.00 | 0.04 | | 35.84 |
| ATRAZINE | | 2,849.51 | | | 2,849.51 |
| BENZ(A)ANTHR | 0.01 | 345.59 | | 0.00 | 345.60 |
| BENZ(GHI)PE | 0.01 | 28.80 | | 0.00 | 28.81 |
| BENZENE | 22.76 | 25,784.59 | 25,298.47 | 29,301.58 | 80,407.40 |
| BENZO(A)PYRE | 0.00 | 57.60 | | 0.00 | 57.60 |
| BENZO(B)FLUO | | 57.60 | | 0.00 | 57.60 |
| BENZO(K)FLUO | | 28.80 | | 0.00 | 28.80 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 3,270.12 | 0.16 | 3,270.28 |
| CADMIUM | 2.88 | 0.66 | | | 3.55 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 24.26 | | | 24.26 |
| CHROMIUM | 111.32 | 0.01 | 0.80 | | 112.13 |
| CHROMIUM VI | 0.19 | | | | 0.19 |
| CHRYSENE | 0.27 | 144.00 | | 0.00 | 144.27 |
| COBALT | 0.54 | | | | 0.54 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.80 | | 127.49 | | 128.29 |
| DIBENZAHAN | | 28.80 | | 0.00 | 28.80 |
| DIBROMOET,12 | | 0.86 | | | 0.86 |
| DIBUTYL PHTH | | 776.10 | | | 776.10 |
| DICHLORETH12 | | 8.93 | | | 8.93 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 2,293.81 | 10,929.13 | 11,218.28 | 24,441.21 |
| ETHYLENE OXI | | 370.22 | | | 370.22 |
| FLUORANTHENE | 0.57 | 172.79 | | 0.00 | 173.36 |
| FLUORENE | 0.06 | 201.59 | | | 201.65 |
| FORMALDEHYDE | 323.14 | 31.05 | 11,467.39 | 12,473.86 | 24,295.44 |
| GLYCOL ETHRS | | 991.32 | | | 991.32 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.00 | 57.60 | | 0.00 | 57.60 |
| LEAD | 51.75 | | 43.86 | | 95.61 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 38.70 | 3.17 | 1.41 | | 43.27 |
| MERCURY | 0.04 | 0.13 | 0.92 | | 1.09 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 7,140.50 | | | 7,140.50 |
| NAPHTHALENE | 14.54 | 4,601.69 | 1,612.35 | 0.00 | 6,228.59 |
| NICKEL | 2.34 | 0.03 | 1.03 | | 3.40 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0001 | | | | 0.0001 |
| PCDF | 0.0003 | | | | 0.0003 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 27,732.32 | | | 27,732.32 |
| PHENANTHRENE | 0.36 | 7,041.33 | | 0.00 | 7,041.69 |
| PHENOL | 2.47 | | | 0.02 | 2.49 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.11 | 143.99 | | 0.00 | 144.10 |
| STYRENE | | | 6,525.96 | 0.04 | 6,526.00 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 33,002.42 | | | 33,002.42 |
| TOLUENE | | 56,530.24 | 74,632.24 | 49,896.37 | 181,058.84 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 22,262.86 | | | 22,262.86 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 170.15 | | | 170.15 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 242.66 | 21,212.52 | 31,143.08 | 52,598.26 |
| XYLENE,O | | 4,833.31 | 11,619.75 | 15,236.69 | 31,689.75 |
| XYLENE,P | | 242.66 | | | 242.66 |
| XYLENES ISO | | 21,975.49 | 42,229.20 | 0.27 | 64,204.96 |

# Michigan - Midland Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.25 | 107.00 | | | 107.25 |
| ACENAPHTHYL | 2.33 | 1,210.00 | | | 1,212.33 |
| ACETALDEHYDE | 157.14 | | 10,900.74 | 5,035.28 | 16,093.17 |
| ACROLEIN | 0.21 | | 1,554.13 | 0.27 | 1,554.61 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 2.01 | 142.37 | | 0.00 | 144.38 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.05 | 0.00 | 0.09 | | 0.14 |
| ATRAZINE | | 19,553.78 | | | 19,553.78 |
| BENZ(A)ANTHR | 0.09 | 427.11 | | 0.00 | 427.20 |
| BENZ(GHI)PE | 0.00 | 35.59 | | 0.00 | 35.59 |
| BENZENE | 208.67 | 42,394.88 | 63,970.52 | 3,674.25 | 110,248.31 |
| BENZO(A)PYRE | 0.01 | 71.18 | | 0.00 | 71.19 |
| BENZO(B)FLUO | 0.01 | 71.18 | | 0.00 | 71.19 |
| BENZO(K)FLUO | | 35.59 | | 0.00 | 35.59 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 8,268.94 | 0.44 | 8,269.38 |
| CADMIUM | 0.01 | 0.82 | | | 0.83 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 80.55 | | | 80.55 |
| CHROMIUM | 0.07 | 0.02 | 2.00 | | 2.09 |
| CHROMIUM VI | 0.02 | | | | 0.02 |
| CHRYSENE | 2.25 | 178.00 | | 0.00 | 180.25 |
| COBALT | 0.07 | | | | 0.07 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.10 | | 327.31 | | 327.41 |
| DIBENZAHAN | | 35.59 | | 0.00 | 35.59 |
| DIBROMOET,12 | | 3.07 | | | 3.07 |
| DIBUTYL PHTH | | 968.85 | | | 968.85 |
| DICHLORETH12 | | 31.88 | | | 31.88 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 6,844.07 | 27,612.25 | 1,406.63 | 35,862.95 |
| ETHYLENE OXI | | 1,227.82 | | | 1,227.82 |
| FLUORANTHENE | 4.72 | 213.55 | | 0.00 | 218.27 |
| FLUORENE | 0.51 | 249.14 | | | 249.65 |
| FORMALDEHYDE | 3,963.71 | 103.06 | 28,743.84 | 14,898.56 | 47,709.17 |
| GLYCOL ETHRS | | 3,290.68 | | | 3,290.68 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.02 | 71.18 | | 0.00 | 71.20 |
| LEAD | 0.00 | | 109.04 | | 109.04 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 4.66 | 3.92 | 3.53 | | 12.11 |
| MERCURY | 0.83 | 0.43 | 2.27 | | 3.52 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 23,545.39 | | | 23,545.39 |
| NAPHTHALENE | 122.75 | 9,788.51 | 4,076.15 | 0.00 | 13,987.41 |
| NICKEL | 0.29 | 0.04 | 2.56 | | 2.90 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0006 | | | | 0.0006 |
| PCDF | 0.0028 | | | | 0.0028 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 91,072.95 | | | 91,072.95 |
| PHENANTHRENE | 3.64 | 8,702.27 | | 0.00 | 8,705.91 |
| PHENOL | 20.43 | | | 0.08 | 20.51 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.88 | 177.96 | | 0.00 | 178.84 |
| STYRENE | | | 16,425.48 | 0.13 | 16,425.61 |
| TCDD,2378 | 0.0015 | | | | 0.0015 |
| TCDF,2378 | 2.8669 | | | | 2.8669 |
| TCE,111 | | 108,695.30 | | | 108,695.30 |
| TOLUENE | | 113,480.87 | 188,617.75 | 6,257.28 | 308,355.89 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 73,091.53 | | | 73,091.53 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 439.68 | | | 439.68 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 796.68 | 53,632.71 | 3,903.89 | 58,333.28 |
| XYLENE,O | | 3,898.92 | 29,362.89 | 1,910.04 | 35,171.84 |
| XYLENE,P | | 796.68 | | | 796.68 |
| XYLENES ISO | | 68,706.10 | 106,717.24 | 1.52 | 175,424.86 |

# Michigan - Missaukee Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.75 | 66.70 | | | 67.45 |
| ACENAPHTHYL | 9.73 | 756.00 | | | 765.73 |
| ACETALDEHYDE | 663.52 | | 3,255.55 | 3,584.99 | 7,504.06 |
| ACROLEIN | 0.88 | | 462.45 | 0.14 | 463.47 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 8.40 | 88.89 | | 0.00 | 97.29 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.08 | 0.00 | 0.03 | | 0.11 |
| ATRAZINE | | 3,314.67 | | | 3,314.67 |
| BENZ(A)ANTHR | 0.40 | 266.67 | | 0.00 | 267.07 |
| BENZ(GHI)PE | 0.00 | 22.22 | | 0.00 | 22.22 |
| BENZENE | 806.79 | 18,865.87 | 18,682.58 | 12,911.37 | 51,266.61 |
| BENZO(A)PYRE | 0.04 | 44.44 | | 0.00 | 44.48 |
| BENZO(B)FLUO | | 44.44 | | 0.00 | 44.44 |
| BENZO(K)FLUO | | 22.22 | | 0.00 | 22.22 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 2,414.95 | 0.20 | 2,415.14 |
| CADMIUM | 0.02 | 0.51 | | | 0.53 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 13.52 | | | 13.52 |
| CHROMIUM | 0.12 | 0.01 | 0.60 | | 0.73 |
| CHROMIUM VI | 0.04 | | | | 0.04 |
| CHRYSENE | 9.51 | 111.00 | | 0.00 | 120.51 |
| COBALT | 0.12 | | | | 0.12 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.17 | | 96.80 | | 96.97 |
| DIBENZAHAN | | 22.22 | | 0.00 | 22.22 |
| DIBROMOET,12 | | 1.14 | | | 1.14 |
| DIBUTYL PHTH | | 430.82 | | | 430.82 |
| DICHLORETH12 | 0.81 | 11.77 | | | 12.58 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 1,241.46 | 8,084.86 | 4,943.17 | 14,269.49 |
| ETHYLENE OXI | | 206.02 | | | 206.02 |
| FLUORANTHENE | 19.91 | 133.33 | | 0.00 | 153.24 |
| FLUORENE | 2.12 | 155.56 | | | 157.68 |
| FORMALDEHYDE | 1,459.73 | 17.30 | 8,607.63 | 10,607.29 | 20,691.96 |
| GLYCOL ETHRS | | 552.38 | | | 552.38 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.08 | 44.44 | | 0.00 | 44.52 |
| LEAD | 0.00 | | 33.48 | | 33.48 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 7.87 | 2.44 | 1.06 | | 11.38 |
| MERCURY | 1.44 | 0.10 | 0.71 | | 2.24 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 3,969.66 | | | 3,969.66 |
| NAPHTHALENE | 508.70 | 3,414.51 | 1,191.25 | 0.00 | 5,114.45 |
| NICKEL | 0.50 | 0.02 | 0.78 | | 1.30 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0027 | | | | 0.0027 |
| PCDF | 0.0117 | | | | 0.0117 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 4,719.02 | | | 4,719.02 |
| PHENANTHRENE | 12.61 | 5,433.40 | | 0.00 | 5,446.01 |
| PHENOL | 86.26 | | | 0.03 | 86.29 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 3.69 | 111.11 | | 0.00 | 114.80 |
| STYRENE | | | 4,864.96 | 0.05 | 4,865.02 |
| TCDD,2378 | 0.000 | | | | 0.000 |
| TCDF,2378 | | | | | 0.000 |
| TCE,111 | | 18,339.79 | | | 18,339.79 |
| TOLUENE | | 24,380.05 | 55,174.53 | 21,986.37 | 101,540.95 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 12,358.20 | | | 12,358.20 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 172.97 | | | 172.97 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 134.70 | 15,668.75 | 13,722.43 | 29,525.88 |
| XYLENE,O | | 2,166.25 | 8,592.60 | 6,713.69 | 17,472.54 |
| XYLENE,P | | 134.70 | | | 134.70 |
| XYLENES ISO | | 13,604.17 | 31,224.06 | 0.56 | 44,828.80 |

# Michigan - Monroe Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.07 | 65.40 | | | 65.47 |
| ACENAPHTHYL | 0.03 | 741.00 | | | 741.03 |
| ACETALDEHYDE | | | 21,226.30 | 9,137.37 | 30,363.67 |
| ACROLEIN | | | 2,998.65 | 0.38 | 2,999.03 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.02 | 87.23 | | 0.00 | 87.25 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 1,272.84 | 0.01 | 0.19 | | 1,273.03 |
| ATRAZINE | | 48.24 | | | 48.24 |
| BENZ(A)ANTHR | 0.00 | 261.68 | | 0.00 | 261.68 |
| BENZ(GHI)PE | | 21.81 | | 0.00 | 21.81 |
| BENZENE | 29.30 | 55,593.98 | 117,824.85 | 2,785.44 | 176,233.56 |
| BENZO(A)PYRE | 0.01 | 43.61 | | 0.00 | 43.62 |
| BENZO(B)FLUO | 0.01 | 43.61 | | 0.00 | 43.62 |
| BENZO(K)FLUO | | 21.81 | | 0.00 | 21.81 |
| BERYLLIUM | 152.52 | 0.00 | | | 152.52 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 15,230.16 | 0.77 | 15,230.93 |
| CADMIUM | 84.37 | 0.50 | | | 84.87 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 140.94 | | | 140.94 |
| CHROMIUM | 2,761.49 | 0.02 | 3.37 | | 2,764.87 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | 0.01 | 109.00 | | 0.00 | 109.01 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 181.63 | | 736.08 | | 917.70 |
| DIBENZAHAN | | 21.81 | | 0.00 | 21.81 |
| DIBROMOET,12 | | 7.53 | | | 7.53 |
| DIBUTYL PHTH | | 1,991.39 | | | 1,991.39 |
| DICHLORETH12 | | 77.86 | | | 77.86 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.21 | 13,191.14 | 50,591.66 | 1,066.29 | 64,849.30 |
| ETHYLENE OXI | | 2,147.94 | | | 2,147.94 |
| FLUORANTHENE | 0.03 | 130.84 | | 0.00 | 130.87 |
| FLUORENE | 0.00 | 152.65 | | | 152.65 |
| FORMALDEHYDE | 3,650.76 | 180.30 | 56,340.71 | 27,035.96 | 87,207.73 |
| GLYCOL ETHRS | | 5,757.64 | | | 5,757.64 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 43.61 | | 0.00 | 43.61 |
| LEAD | 2,218.40 | | 192.52 | | 2,410.92 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 5,462.44 | 2.40 | 5.84 | | 5,470.68 |
| MERCURY | 3,853.24 | 0.60 | 4.24 | | 3,858.07 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 41,129.46 | | | 41,129.46 |
| NAPHTHALENE | 4.33 | 13,871.80 | 7,490.07 | 0.01 | 21,366.20 |
| NICKEL | 2,175.37 | 0.03 | 4.36 | | 2,179.76 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.00 |
| PCDF | | | | | 0.00 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 158,926.77 | | | 158,926.77 |
| PHENANTHRENE | 0.63 | 5,331.80 | | 0.00 | 5,332.43 |
| PHENOL | | | | 0.15 | 0.15 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 109.03 | | 0.00 | 109.03 |
| STYRENE | | | 28,969.01 | 0.23 | 28,969.24 |
| TCDD,2378 | | | | | 0.00 |
| TCDF,2378 | | | | | 0.00 |
| TCE,111 | | 189,815.28 | | | 189,815.28 |
| TOLUENE | 2.60 | 282,060.32 | 345,771.29 | 4,744.54 | 632,578.74 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 127,539.69 | | | 127,539.69 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 2.16 | | | 2.16 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 1,390.15 | 98,668.09 | 2,958.03 | 103,016.27 |
| XYLENE,O | | 11,740.98 | 53,708.50 | 1,447.33 | 66,896.82 |
| XYLENE,P | | 1,390.15 | | | 1,390.15 |
| XYLENES ISO | 0.46 | 132,365.37 | 195,744.30 | 3.03 | 328,113.17 |

# Michigan - Montcalm Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 139.00 | | | 139.00 |
| ACENAPHTHYL | | 1,570.00 | | | 1,570.00 |
| ACETALDEHYDE | | | 12,219.61 | 5,111.16 | 17,330.77 |
| ACROLEIN | | | 1,736.83 | 0.17 | 1,736.99 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 184.86 | | 0.00 | 184.86 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.11 | | 0.11 |
| ATRAZINE | | 36,755.08 | | | 36,755.08 |
| BENZ(A)ANTHR | | 554.59 | | 0.00 | 554.59 |
| BENZ(GHI)PE | | 46.22 | | 0.00 | 46.22 |
| BENZENE | | 58,509.09 | 70,392.08 | 956.64 | 129,857.81 |
| BENZO(A)PYRE | | 92.43 | | 0.00 | 92.43 |
| BENZO(B)FLUO | | 92.43 | | 0.00 | 92.43 |
| BENZO(K)FLUO | | 46.22 | | 0.00 | 46.22 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 9,099.01 | 0.33 | 9,099.34 |
| CADMIUM | | 1.06 | | | 1.06 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 59.12 | | | 59.12 |
| CHROMIUM | | 0.02 | 2.29 | | 2.32 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 231.00 | | 0.00 | 231.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 373.15 | | 373.15 |
| DIBENZAHAN | | 46.22 | | 0.00 | 46.22 |
| DIBROMOET,12 | | 4.61 | | | 4.61 |
| DIBUTYL PHTH | | 6.35 | | | 6.35 |
| DICHLORETH12 | | 47.53 | | | 47.53 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 5,326.54 | 30,450.03 | 366.20 | 36,142.77 |
| ETHYLENE OXI | | 902.75 | | | 902.75 |
| FLUORANTHENE | | 277.29 | | 0.00 | 277.29 |
| FLUORENE | | 323.51 | | | 323.51 |
| FORMALDEHYDE | | 75.64 | 32,293.81 | 15,122.98 | 47,492.43 |
| GLYCOL ETHRS | | 2,415.23 | | | 2,415.23 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 92.43 | | 0.00 | 92.43 |
| LEAD | 1,602.57 | | 125.95 | | 1,728.52 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 0.92 | 5.08 | 4.04 | | 10.03 |
| MERCURY | 8.77 | 0.41 | 2.64 | | 11.82 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 5,348.69 | 17,245.52 | | | 22,594.21 |
| NAPHTHALENE | | 10,099.69 | 4,487.92 | 0.00 | 14,587.61 |
| NICKEL | | 0.05 | 2.95 | | 3.00 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.00 |
| PCDF | | | | | 0.00 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 66,619.72 | | | 66,619.72 |
| PHENANTHRENE | | 11,299.70 | | 0.00 | 11,299.70 |
| PHENOL | | | | 0.06 | 0.06 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 231.08 | | 0.00 | 231.08 |
| STYRENE | | | 18,291.72 | 0.10 | 18,291.82 |
| TCDD,2378 | 0.00 | | | | 0.00 |
| TCDF,2378 | 0.00 | | | | 0.00 |
| TCE,111 | | 79,583.03 | | | 79,583.03 |
| TOLUENE | | 119,540.99 | 207,835.78 | 1,629.59 | 329,006.36 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 53,461.78 | | | 53,461.78 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 388.54 | | | 388.54 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 582.72 | 59,033.62 | 1,015.70 | 60,632.03 |
| XYLENE,O | | 5,702.50 | 32,365.54 | 496.98 | 38,565.02 |
| XYLENE,P | | 582.72 | | | 582.72 |
| XYLENES ISO | 160.00 | 65,176.92 | 117,612.65 | 1.31 | 182,950.87 |

# Michigan - Montmorency Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.77 | 53.30 | | | 54.07 |
| ACENAPHTHYL | 10.00 | 604.00 | | | 614.00 |
| ACETALDEHYDE | 681.76 | | 2,392.67 | 2,698.95 | 5,773.38 |
| ACROLEIN | 0.91 | | 339.92 | | 340.83 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 8.64 | 71.04 | | | 79.68 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.38 | 0.00 | 0.02 | | 0.40 |
| ATRAZINE | | 567.66 | | | 567.66 |
| BENZ(A)ANTHR | 0.41 | 213.12 | | | 213.53 |
| BENZ(GHI)PE | 0.01 | 17.76 | | | 17.77 |
| BENZENE | 818.11 | 20,555.12 | 13,738.67 | 5,637.81 | 40,749.71 |
| BENZO(A)PYRE | 0.04 | 35.52 | | | 35.56 |
| BENZO(B)FLUO | | 35.52 | | | 35.52 |
| BENZO(K)FLUO | | 17.76 | | | 17.76 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 1,775.89 | | 1,775.89 |
| CADMIUM | 0.07 | 0.41 | | | 0.48 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 9.89 | | | 9.89 |
| CHROMIUM | 0.56 | 0.01 | 0.44 | | 1.01 |
| CHROMIUM VI | 0.20 | | | | 0.20 |
| CHRYSENE | 9.77 | 88.80 | | | 98.57 |
| COBALT | 0.56 | | | | 0.56 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.82 | | 70.61 | | 71.43 |
| DIBENZAHAN | | 17.76 | | | 17.76 |
| DIBROMOET,12 | | 1.89 | | | 1.89 |
| DIBUTYL PHTH | | 311.93 | | | 311.93 |
| DICHLORETH12 | | 19.50 | | | 19.50 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 1,124.39 | 5,945.27 | 2,158.48 | 9,228.14 |
| ETHYLENE OXI | | 150.64 | | | 150.64 |
| FLUORANTHENE | 20.45 | 106.56 | | | 127.01 |
| FLUORENE | 2.18 | 124.32 | | | 126.50 |
| FORMALDEHYDE | 1,499.88 | 12.65 | 6,325.77 | 7,985.54 | 15,823.84 |
| GLYCOL ETHRS | | 403.87 | | | 403.87 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.08 | 35.52 | | | 35.60 |
| LEAD | 0.00 | | 24.38 | | 24.38 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 38.43 | 1.95 | 0.77 | | 41.15 |
| MERCURY | 1.48 | 0.18 | 0.52 | | 2.17 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 2,885.28 | | | 2,885.28 |
| NAPHTHALENE | 522.68 | 3,120.70 | 876.01 | | 4,519.39 |
| NICKEL | 2.42 | 0.02 | 0.56 | | 3.00 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0027 | | | | 0.0027 |
| PCDF | 0.0120 | | | | 0.0120 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 3,419.38 | | | 3,419.38 |
| PHENANTHRENE | 12.95 | 4,342.30 | | | 4,355.25 |
| PHENOL | 88.63 | | | | 88.63 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 3.80 | 88.80 | | | 92.60 |
| STYRENE | | | 3,577.38 | | 3,577.38 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 13,315.98 | | | 13,315.98 |
| TOLUENE | | 38,145.66 | 40,573.60 | 9,600.38 | 88,319.64 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 8,947.50 | | | 8,947.50 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 24.39 | | | 24.39 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 97.53 | 11,522.37 | 5,992.18 | 17,612.09 |
| XYLENE,O | | 2,776.97 | 6,318.74 | 2,931.66 | 12,027.38 |
| XYLENE,P | | 97.53 | | | 97.53 |
| XYLENES ISO | | 18,544.73 | 22,961.06 | | 41,505.79 |

# Michigan - Muskegon Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.24 | 155.00 | | | 155.24 |
| ACENAPHTHYL | 3.08 | 1,760.00 | | | 1,763.08 |
| ACETALDEHYDE | 210.14 | | 36,165.59 | 8,881.35 | 45,257.08 |
| ACROLEIN | 0.28 | | 5,339.38 | 0.04 | 5,339.70 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 2.66 | 206.83 | | 0.00 | 209.49 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.37 | 0.01 | 0.24 | | 0.62 |
| ATRAZINE | | 12,724.60 | | | 12,724.60 |
| BENZ(A)ANTHR | 0.13 | 620.50 | | 0.00 | 620.63 |
| BENZ(GHI)PE | 0.00 | 51.71 | | 0.00 | 51.71 |
| BENZENE | 902.72 | 78,791.29 | 257,571.49 | 6,845.80 | 344,111.31 |
| BENZO(A)PYRE | 0.01 | 103.42 | | 0.00 | 103.43 |
| BENZO(B)FLUO | | 103.42 | | 0.00 | 103.42 |
| BENZO(K)FLUO | | 51.71 | | 0.00 | 51.71 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 33,293.72 | 1.72 | 33,295.44 |
| CADMIUM | 0.00 | 1.19 | | | 1.20 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 164.39 | | | 164.39 |
| CHROMIUM | 0.01 | 0.04 | 5.33 | | 5.38 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 3.02 | 259.00 | | 0.00 | 262.02 |
| COBALT | 0.01 | | | | 0.01 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 23.45 | | 949.23 | | 972.68 |
| DIBENZAHAN | | 51.71 | | 0.00 | 51.71 |
| DIBROMOET,12 | | 6.79 | | | 6.79 |
| DIBUTYL PHTH | | 4,417.29 | | | 4,417.29 |
| DICHLORETH12 | | 70.44 | | | 70.44 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.53 | 14,985.90 | 108,881.28 | 2,620.32 | 126,488.03 |
| ETHYLENE OXI | | 2,506.72 | | | 2,506.72 |
| FLUORANTHENE | 6.32 | 310.25 | | 0.00 | 316.57 |
| FLUORENE | 0.67 | 361.96 | | | 362.63 |
| FORMALDEHYDE | 484.76 | 210.31 | 92,877.23 | 26,290.33 | 119,862.63 |
| GLYCOL ETHRS | | 6,715.67 | | | 6,715.67 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.02 | 103.42 | | 0.00 | 103.44 |
| LEAD | 3,488.73 | | 248.48 | | 3,737.22 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 3,016.80 | 5.69 | 9.81 | | 3,032.30 |
| MERCURY | 0.51 | 1.44 | 4.21 | | 6.17 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 85,452.84 | 48,124.87 | | | 133,577.71 |
| NAPHTHALENE | 185.29 | 18,254.60 | 16,321.45 | 0.48 | 34,761.81 |
| NICKEL | 0.25 | 0.08 | 6.56 | | 6.89 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0008 | | | | 0.0008 |
| PCDF | 0.0037 | | | | 0.0037 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 9,281.25 | 186,319.56 | | | 195,600.81 |
| PHENANTHRENE | 3.99 | 12,642.59 | | 0.00 | 12,646.58 |
| PHENOL | 27.34 | | | 0.25 | 27.59 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 1.17 | 258.54 | | 0.00 | 259.71 |
| STYRENE | 25.58 | | 58,548.45 | 0.07 | 58,574.10 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | 3.8245 | | | | 3.8245 |
| TCE,111 | 6,750.00 | 222,224.20 | | | 228,974.20 |
| TOLUENE | 3,683.56 | 319,881.45 | 749,542.74 | 11,655.35 | 1,084,763.10 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 132,932.44 | 149,541.90 | | | 282,474.34 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 125.08 | | | 125.08 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 1,629.97 | 215,350.08 | 7,273.52 | 224,253.57 |
| XYLENE,O | | 14,663.09 | 116,301.39 | 3,558.75 | 134,523.23 |
| XYLENE,P | | 1,629.97 | | | 1,629.97 |
| XYLENES ISO | 19,582.81 | 149,883.77 | 423,319.56 | 1.17 | 592,787.32 |

# Michigan - Newaygo Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 153.00 | | | 153.00 |
| ACENAPHTHYL | | 1,740.00 | | | 1,740.00 |
| ACETALDEHYDE | 1.27 | | 9,283.01 | 3,622.63 | 12,906.90 |
| ACROLEIN | | | 1,319.08 | 0.12 | 1,319.21 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 204.59 | | 0.00 | 204.59 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.26 | 0.00 | 0.08 | | 0.34 |
| ATRAZINE | | 11,775.34 | | | 11,775.34 |
| BENZ(A)ANTHR | 0.24 | 613.77 | | 0.00 | 614.01 |
| BENZ(GHI)PE | | 51.15 | | 0.00 | 51.15 |
| BENZENE | | 46,007.67 | 53,387.43 | 6,134.38 | 105,529.48 |
| BENZO(A)PYRE | | 102.30 | | 0.00 | 102.30 |
| BENZO(B)FLUO | | 102.30 | | 0.00 | 102.30 |
| BENZO(K)FLUO | | 51.15 | | 0.00 | 51.15 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 6,900.96 | 0.20 | 6,901.16 |
| CADMIUM | 0.57 | 1.18 | | | 1.76 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 44.64 | | | 44.64 |
| CHROMIUM | 1.88 | 0.03 | 1.74 | | 3.65 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 256.00 | | 0.00 | 256.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 5.54 | | 283.66 | | 289.20 |
| DIBENZAHAN | | 51.15 | | 0.00 | 51.15 |
| DIBROMOET,12 | | 2.02 | | | 2.02 |
| DIBUTYL PHTH | | 1,400.37 | | | 1,400.37 |
| DICHLORETH12 | | 20.97 | | | 20.97 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 3,899.34 | 23,099.17 | 2,348.55 | 29,347.07 |
| ETHYLENE OXI | | 680.75 | | | 680.75 |
| FLUORANTHENE | 0.10 | 306.89 | | 0.00 | 306.99 |
| FLUORENE | | 358.04 | | | 358.04 |
| FORMALDEHYDE | 43.83 | 57.11 | 24,537.84 | 10,718.66 | 35,357.44 |
| GLYCOL ETHRS | | 1,823.89 | | | 1,823.89 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 102.30 | | 0.00 | 102.30 |
| LEAD | 0.36 | | 95.85 | | 96.21 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 6.42 | 5.63 | 3.07 | | 15.12 |
| MERCURY | 0.53 | 0.44 | 2.01 | | 2.98 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 12,983.49 | | | 12,983.49 |
| NAPHTHALENE | 0.48 | 8,471.54 | 3,403.97 | 0.00 | 11,876.00 |
| NICKEL | 9.21 | 0.07 | 2.24 | | 11.52 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 50,060.57 | | | 50,060.57 |
| PHENANTHRENE | | 12,505.65 | | 0.00 | 12,505.65 |
| PHENOL | 1.02 | | | 0.04 | 1.05 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 255.74 | | 0.00 | 255.74 |
| STYRENE | | | 13,889.68 | 0.06 | 13,889.74 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 59,882.39 | | | 59,882.39 |
| TOLUENE | 39.57 | 76,608.73 | 157,650.57 | 10,446.24 | 244,745.11 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 40,168.14 | | | 40,168.14 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 157.02 | | | 157.02 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 437.82 | 44,774.16 | 6,519.38 | 51,731.36 |
| XYLENE,O | | 5,541.57 | 24,551.25 | 3,189.62 | 33,282.44 |
| XYLENE,P | | 437.82 | | | 437.82 |
| XYLENES ISO | 88.12 | 38,532.21 | 89,214.74 | 0.70 | 127,835.75 |

# Michigan - Oakland Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.16 | 113.00 | | | 113.16 |
| ACENAPHTHYL | 1.64 | 1,280.00 | | | 1,281.64 |
| ACETALDEHYDE | 111.21 | | 200,014.21 | 68,561.47 | 268,686.90 |
| ACROLEIN | 0.15 | | 29,374.03 | 9.66 | 29,383.84 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 1.42 | 150.10 | | 0.00 | 151.52 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 26.98 | 0.07 | 1.53 | | 28.57 |
| ATRAZINE | | 9,607.19 | | | 9,607.19 |
| BENZ(A)ANTHR | 95.36 | 450.30 | | 0.00 | 545.66 |
| BENZ(GHI)PE | 0.00 | 37.53 | | 0.00 | 37.53 |
| BENZENE | 242.43 | 201,435.01 | 1,387,308.07 | 28,803.64 | 1,617,789.14 |
| BENZO(A)PYRE | 16.68 | 75.05 | | 0.00 | 91.73 |
| BENZO(B)FLUO | 0.01 | 75.05 | | 0.00 | 75.06 |
| BENZO(K)FLUO | | 37.53 | | 0.00 | 37.53 |
| BERYLLIUM | 0.02 | 0.00 | | | 0.02 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 179,323.50 | 9.03 | 179,332.54 |
| CADMIUM | 3.16 | 0.89 | | | 4.05 |
| CARBON TETRA | 0.14 | 0.00 | | | 0.14 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | 0.14 | 1,159.64 | | | 1,159.78 |
| CHROMIUM | 79.88 | 0.09 | 27.37 | | 107.35 |
| CHROMIUM VI | 0.16 | | | | 0.16 |
| CHRYSENE | 130.63 | 188.00 | | 0.00 | 318.63 |
| COBALT | 0.34 | | | | 0.34 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.68 | | 6,741.62 | | 6,742.30 |
| DIBENZAHAN | | 37.53 | | 0.00 | 37.53 |
| DIBROMOET,12 | 0.01 | 18.61 | | | 18.62 |
| DIBUTYL PHTH | | 16,303.34 | | | 16,303.34 |
| DICHLORETH12 | 2.27 | 198.55 | | | 200.82 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 4.06 | 113,280.10 | 586,355.36 | 11,025.13 | 710,664.65 |
| ETHYLENE OXI | 348.00 | 17,675.86 | | | 18,023.86 |
| FLUORANTHENE | 55.75 | 225.15 | | 0.00 | 280.90 |
| FLUORENE | 0.36 | 262.68 | | | 263.04 |
| FORMALDEHYDE | 2,912.97 | 1,483.60 | 515,698.71 | 202,864.07 | 722,959.34 |
| GLYCOL ETHRS | | 47,374.65 | | | 47,374.65 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.01 | 75.05 | | 0.00 | 75.06 |
| LEAD | 55.01 | | 1,290.56 | | 1,345.57 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 70.89 | 4.13 | 50.07 | | 125.09 |
| MERCURY | 5.75 | 7.60 | 22.58 | | 35.93 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 181.51 | 338,904.24 | | | 339,085.75 |
| NAPHTHALENE | 117.06 | 87,609.58 | 87,886.40 | 0.15 | 175,613.20 |
| NICKEL | 1.92 | 0.13 | 33.61 | | 35.66 |
| PARATHION | | | | | 0.00 |
| PCBS | 0.12 | | | | 0.12 |
| PCDD | 0.0004 | | | | 0.0004 |
| PCDF | 0.0142 | | | | 0.0142 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 0.10 | 1,691,843.74 | | | 1,691,843.84 |
| PHENANTHRENE | 2.46 | 9,174.93 | | 0.00 | 9,177.39 |
| PHENOL | 14.52 | | | 1.33 | 15.85 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.62 | 187.63 | | 0.00 | 188.25 |
| STYRENE | | | 313,959.51 | 2.15 | 313,961.66 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | 0.0000 | | | | 0.0000 |
| TCE,111 | 7,856.27 | 1,564,465.29 | | | 1,572,321.56 |
| TOLUENE | 14,408.20 | 2,584,838.96 | 4,035,415.36 | 49,041.63 | 6,683,704.15 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 248,582.30 | 1,051,911.49 | | | 1,300,493.79 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 78.01 | | | 78.01 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | 11.02 | 11,465.57 | 1,159,749.78 | 30,599.27 | 1,201,825.63 |
| XYLENE,O | 8.41 | 153,436.95 | 625,930.79 | 14,971.67 | 794,347.83 |
| XYLENE,P | 1.02 | 11,465.57 | | | 11,466.59 |
| XYLENES ISO | 93.02 | 1,157,922.26 | 2,279,588.84 | 10.36 | 3,437,614.48 |

# Michigan - Oceana Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 84.40 | | | 84.40 |
| ACENAPHTHYL | | 957.00 | | | 957.00 |
| ACETALDEHYDE | | | 6,019.94 | 4,264.69 | 10,284.63 |
| ACROLEIN | | | 855.08 | | 855.08 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 112.59 | | | 112.59 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 1.21 | 0.00 | 0.05 | | 1.26 |
| ATRAZINE | | 7,212.50 | | | 7,212.50 |
| BENZ(A)ANTHR | | 337.78 | | | 337.78 |
| BENZ(GHI)PE | | 28.15 | | | 28.15 |
| BENZENE | 1,057.40 | 25,042.13 | 34,536.85 | 4,212.45 | 64,848.83 |
| BENZO(A)PYRE | | 56.30 | | | 56.30 |
| BENZO(B)FLUO | | 56.30 | | | 56.30 |
| BENZO(K)FLUO | | 28.15 | | | 28.15 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 4,464.30 | | 4,464.30 |
| CADMIUM | 0.00 | 0.65 | | | 0.65 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 24.46 | | | 24.46 |
| CHROMIUM | | 0.01 | 1.13 | | 1.14 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | | 141.00 | | | 141.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 78.82 | | 181.96 | | 260.78 |
| DIBENZAHAN | | 28.15 | | | 28.15 |
| DIBROMOET,12 | | 1.11 | | | 1.11 |
| DIBUTYL PHTH | | 769.28 | | | 769.28 |
| DICHLORETH12 | | 11.51 | | | 11.51 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 2,109.53 | 14,947.15 | 1,612.77 | 18,669.45 |
| ETHYLENE OXI | | 373.22 | | | 373.22 |
| FLUORANTHENE | 0.00 | 168.89 | | | 168.89 |
| FLUORENE | | 197.04 | | | 197.04 |
| FORMALDEHYDE | | 31.30 | 15,917.16 | 12,618.21 | 28,566.68 |
| GLYCOL ETHRS | | 999.38 | | | 999.38 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 56.30 | | | 56.30 |
| LEAD | 3,680.00 | | 62.23 | | 3,742.23 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 5,803.59 | 3.10 | 1.98 | | 5,808.67 |
| MERCURY | 0.00 | 0.19 | 1.31 | | 1.50 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 7,125.12 | | | 7,125.12 |
| NAPHTHALENE | | 4,652.44 | 2,202.22 | | 6,854.66 |
| NICKEL | 0.00 | 0.03 | 1.45 | | 1.49 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 8,435.12 | | | 8,435.12 |
| PHENANTHRENE | | 6,882.30 | | | 6,882.30 |
| PHENOL | 0.03 | | | | 0.03 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 140.74 | | | 140.74 |
| STYRENE | | | 8,998.62 | | 8,998.62 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 4.51 | 32,871.53 | | | 32,876.04 |
| TOLUENE | 12.50 | 39,433.12 | 102,003.02 | 7,173.20 | 148,621.84 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 22,066.17 | | | 22,066.17 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 77.33 | | | 77.33 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 240.51 | 28,965.88 | 4,477.23 | 33,683.62 |
| XYLENE,O | | 2,795.58 | 15,885.78 | 2,190.47 | 20,871.84 |
| XYLENE,P | | 240.51 | | | 240.51 |
| XYLENES ISO | 3.82 | 20,792.73 | 57,725.13 | | 78,521.69 |

# Michigan - Ogemaw Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.01 | 86.90 | | | 86.91 |
| ACENAPHTHYL | 0.00 | 985.00 | | | 985.00 |
| ACETALDEHYDE | | | 4,368.47 | 2,380.03 | 6,748.50 |
| ACROLEIN | | | 620.92 | | 620.92 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.00 | 115.92 | | | 115.92 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.00 | 0.00 | 0.04 | | 0.04 |
| ATRAZINE | | 5,387.20 | | | 5,387.20 |
| BENZ(A)ANTHR | 0.00 | 347.75 | | | 347.75 |
| BENZ(GHI)PE | | 28.98 | | | 28.98 |
| BENZENE | 9.29 | 29,677.85 | 25,163.85 | 2,295.58 | 57,146.57 |
| BENZO(A)PYRE | 0.00 | 57.96 | | | 57.96 |
| BENZO(B)FLUO | 0.00 | 57.96 | | | 57.96 |
| BENZO(K)FLUO | | 28.98 | | | 28.98 |
| BERYLLIUM | 0.01 | 0.00 | | | 0.01 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 3,252.73 | | 3,252.73 |
| CADMIUM | 0.00 | 0.67 | | | 0.68 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 20.78 | | | 20.78 |
| CHROMIUM | | 0.01 | 0.81 | | 0.83 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.00 | 145.00 | | | 145.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.01 | | 129.44 | | 129.45 |
| DIBENZAHAN | | 28.98 | | | 28.98 |
| DIBROMOET,12 | | 1.95 | | | 1.95 |
| DIBUTYL PHTH | | 658.01 | | | 658.01 |
| DICHLORETH12 | | 20.11 | | | 20.11 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 2,019.15 | 10,884.63 | 878.88 | 13,782.65 |
| ETHYLENE OXI | | 317.13 | | | 317.13 |
| FLUORANTHENE | 0.00 | 173.88 | | | 173.88 |
| FLUORENE | 0.00 | 202.86 | | | 202.86 |
| FORMALDEHYDE | 540.00 | 26.59 | 11,544.99 | 7,041.95 | 19,153.53 |
| GLYCOL ETHRS | | 848.96 | | | 848.96 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 57.96 | | | 57.96 |
| LEAD | 0.00 | | 44.85 | | 44.85 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 44.61 | 3.19 | 1.43 | | 49.23 |
| MERCURY | 0.00 | 0.28 | 0.94 | | 1.22 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 6,078.02 | | | 6,078.02 |
| NAPHTHALENE | 0.34 | 4,883.04 | 1,604.31 | | 6,487.69 |
| NICKEL | 0.03 | 0.03 | 1.05 | | 1.11 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 23,517.83 | | | 23,517.83 |
| PHENANTHRENE | 0.10 | 7,085.50 | | | 7,085.60 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 144.90 | | | 144.90 |
| STYRENE | | | 6,536.15 | | 6,536.15 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 7.43 | 28,061.47 | | | 28,068.90 |
| TOLUENE | 20.57 | 53,535.36 | 74,293.80 | 3,909.05 | 131,758.78 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 18,874.90 | | | 18,874.90 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 119.68 | | | 119.68 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 205.73 | 21,103.17 | 2,439.88 | 23,748.78 |
| XYLENE,O | | 3,952.01 | 11,569.30 | 1,193.70 | 16,715.02 |
| XYLENE,P | | 205.73 | | | 205.73 |
| XYLENES ISO | 6.29 | 25,717.24 | 42,042.31 | | 67,765.83 |

# Michigan - Ontanagon Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 59.00 | | | 59.00 |
| ACENAPHTHYL | | 669.00 | | | 669.00 |
| ACETALDEHYDE | | | 2,370.92 | 4,826.33 | 7,197.25 |
| ACROLEIN | | | 336.83 | | 336.83 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 78.70 | | | 78.70 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 85.00 | 0.00 | 0.02 | | 85.02 |
| ATRAZINE | | 0.00 | | | 0.00 |
| BENZ(A)ANTHR | | 236.10 | | | 236.10 |
| BENZ(GHI)PE | | 19.68 | | | 19.68 |
| BENZENE | | 16,698.16 | 13,614.31 | 6,354.41 | 36,666.87 |
| BENZO(A)PYRE | | 39.35 | | | 39.35 |
| BENZO(B)FLUO | | 39.35 | | | 39.35 |
| BENZO(K)FLUO | | 19.68 | | | 19.68 |
| BERYLLIUM | 9.35 | 0.00 | | | 9.35 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 1,759.81 | | 1,759.81 |
| CADMIUM | 5.67 | 0.45 | | | 6.12 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 8.04 | | | 8.04 |
| CHROMIUM | 182.07 | 0.01 | 0.43 | | 182.52 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 98.40 | | | 98.40 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 70.60 | | 70.60 |
| DIBENZAHAN | | 19.68 | | | 19.68 |
| DIBROMOET,12 | | 0.48 | | | 0.48 |
| DIBUTYL PHTH | | 0.86 | | | 0.86 |
| DICHLORETH12 | | 5.01 | | | 5.01 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 701.54 | 5,891.12 | 2,432.83 | 9,025.49 |
| ETHYLENE OXI | | 122.96 | | | 122.96 |
| FLUORANTHENE | | 118.05 | | | 118.05 |
| FLUORENE | | 137.73 | | | 137.73 |
| FORMALDEHYDE | 35.85 | 10.27 | 6,268.23 | 14,279.96 | 20,594.30 |
| GLYCOL ETHRS | | 328.38 | | | 328.38 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 39.35 | | | 39.35 |
| LEAD | 70.53 | | 24.19 | | 94.72 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 184.45 | 2.16 | 0.76 | | 187.37 |
| MERCURY | 48.89 | 0.14 | 0.51 | | 49.54 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 2,411.57 | | | 2,411.57 |
| NAPHTHALENE | | 2,556.43 | 868.06 | | 3,424.49 |
| NICKEL | 133.78 | 0.02 | 0.56 | | 134.36 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 2,898.66 | | | 2,898.66 |
| PHENANTHRENE | | 4,810.55 | | | 4,810.55 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 98.38 | | | 98.38 |
| STYRENE | | | 3,543.67 | | 3,543.67 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 712.13 | 11,183.60 | | | 11,895.73 |
| TOLUENE | | 16,718.42 | 40,204.62 | 10,820.65 | 67,743.69 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 7,612.58 | | | 7,612.58 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 47.00 | | | 47.00 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 82.98 | 11,417.96 | 6,753.83 | 18,254.77 |
| XYLENE,O | | 1,891.11 | 6,261.19 | 3,304.29 | 11,456.59 |
| XYLENE,P | | 82.98 | | | 82.98 |
| XYLENES ISO | | 7,997.58 | 22,752.24 | | 30,749.82 |

# Michigan - Osceola Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 80.30 | | | 80.30 |
| ACENAPHTHYL | | 910.00 | | | 910.00 |
| ACETALDEHYDE | | | 5,401.19 | 3,161.35 | 8,562.54 |
| ACROLEIN | | | 767.18 | | 767.18 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 107.03 | | | 107.03 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.05 | | 0.05 |
| ATRAZINE | | 2,231.03 | | | 2,231.03 |
| BENZ(A)ANTHR | 0.00 | 321.09 | | | 321.09 |
| BENZ(GHI)PE | | 26.76 | | | 26.76 |
| BENZENE | 0.55 | 25,063.68 | 30,984.91 | 3,196.55 | 59,245.70 |
| BENZO(A)PYRE | | 53.51 | | | 53.51 |
| BENZO(B)FLUO | | 53.51 | | | 53.51 |
| BENZO(K)FLUO | | 26.76 | | | 26.76 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 4,005.17 | | 4,005.17 |
| CADMIUM | | 0.62 | | | 0.62 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 21.82 | | | 21.82 |
| CHROMIUM | | 0.01 | 1.01 | | 1.02 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | 0.00 | 134.00 | | | 134.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 162.57 | | 162.57 |
| DIBENZAHAN | | 26.76 | | | 26.76 |
| DIBROMOET,12 | | 1.14 | | | 1.14 |
| DIBUTYL PHTH | | 696.90 | | | 696.90 |
| DICHLORETH12 | | 11.79 | | | 11.79 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.01 | 1,983.42 | 13,410.27 | 1,223.82 | 16,617.52 |
| ETHYLENE OXI | | 333.06 | | | 333.06 |
| FLUORANTHENE | 0.00 | 160.54 | | | 160.54 |
| FLUORENE | | 187.30 | | | 187.30 |
| FORMALDEHYDE | 147.01 | 27.92 | 14,281.28 | 9,353.68 | 23,809.88 |
| GLYCOL ETHRS | | 891.68 | | | 891.68 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 53.51 | | | 53.51 |
| LEAD | 0.07 | | 55.76 | | 55.83 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 2.94 | 1.78 | | 4.72 |
| MERCURY | 3.09 | 0.18 | 1.17 | | 4.45 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 6,416.14 | | | 6,416.14 |
| NAPHTHALENE | 0.05 | 4,374.71 | 1,975.75 | | 6,350.51 |
| NICKEL | | 0.03 | 1.30 | | 1.33 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 24,903.19 | | | 24,903.19 |
| PHENANTHRENE | | 6,542.17 | | | 6,542.17 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 133.79 | | | 133.79 |
| STYRENE | | | 8,074.48 | | 8,074.48 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 29,649.08 | | | 29,649.08 |
| TOLUENE | 0.15 | 45,413.43 | 91,514.24 | 5,443.27 | 142,371.10 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 19,990.87 | | | 19,990.87 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 196.83 | | | 196.83 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 217.90 | 25,986.99 | 3,397.48 | 29,602.37 |
| XYLENE,O | | 3,458.33 | 14,252.36 | 1,662.21 | 19,372.90 |
| XYLENE,P | | 217.90 | | | 217.90 |
| XYLENES ISO | 0.03 | 20,568.57 | 51,789.41 | | 72,358.01 |

# Michigan - Oscoda Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 63.40 | | | 63.40 |
| ACENAPHTHYL | | 719.00 | | | 719.00 |
| ACETALDEHYDE | | | 2,099.30 | 2,910.41 | 5,009.71 |
| ACROLEIN | | | 298.24 | | 298.24 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 84.55 | | | 84.55 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | | 0.00 | 0.02 | | 0.02 |
| ATRAZINE | | 0.00 | | | 0.00 |
| BENZ(A)ANTHR | | 253.66 | | | 253.66 |
| BENZ(GHI)PE | | 21.14 | | | 21.14 |
| BENZENE | | 17,475.46 | 12,054.33 | 10,260.94 | 39,790.73 |
| BENZO(A)PYRE | | 42.28 | | | 42.28 |
| BENZO(B)FLUO | | 42.28 | | | 42.28 |
| BENZO(K)FLUO | | 21.14 | | | 21.14 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 1,558.17 | | 1,558.17 |
| CADMIUM | | 0.49 | | | 0.49 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 8.74 | | | 8.74 |
| CHROMIUM | | 0.01 | 0.39 | | 0.40 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 106.00 | | | 106.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 60.90 | | 60.90 |
| DIBENZAHAN | | 21.14 | | | 21.14 |
| DIBROMOET,12 | | 0.40 | | | 0.40 |
| DIBUTYL PHTH | | 276.82 | | | 276.82 |
| DICHLORETH12 | | 4.11 | | | 4.11 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 749.27 | 5,215.49 | 3,928.47 | 9,893.23 |
| ETHYLENE OXI | | 133.18 | | | 133.18 |
| FLUORANTHENE | | 126.83 | | | 126.83 |
| FLUORENE | | 147.97 | | | 147.97 |
| FORMALDEHYDE | | 11.18 | 5,550.14 | 8,611.22 | 14,172.53 |
| GLYCOL ETHRS | | 357.07 | | | 357.07 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 42.28 | | | 42.28 |
| LEAD | | | 21.45 | | 21.45 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | | 2.33 | 0.68 | | 3.01 |
| MERCURY | 0.55 | 0.11 | 0.45 | | 1.12 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 2,556.71 | | | 2,556.71 |
| NAPHTHALENE | | 2,697.11 | 768.57 | | 3,465.67 |
| NICKEL | | 0.02 | 0.50 | | 0.52 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 1,474.00 | 3,033.54 | | | 4,507.54 |
| PHENANTHRENE | | 5,168.35 | | | 5,168.35 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 105.69 | | | 105.69 |
| STYRENE | | | 3,135.21 | | 3,135.21 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 11,804.28 | | | 11,804.28 |
| TOLUENE | | 17,737.90 | 35,594.73 | 17,472.91 | 70,805.54 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 7,940.30 | | | 7,940.30 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 22.68 | | | 22.68 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 86.55 | 10,109.45 | 10,905.91 | 21,101.91 |
| XYLENE,O | | 2,029.85 | 5,543.10 | 5,335.69 | 12,908.64 |
| XYLENE,P | | 86.55 | | | 86.55 |
| XYLENES ISO | | 7,841.95 | 20,143.45 | | 27,985.40 |

# Michigan - Otsego Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 58.30 | | | 58.30 |
| ACENAPHTHYL | | 661.00 | | | 661.00 |
| ACETALDEHYDE | | | 4,002.42 | 2,126.74 | 6,129.16 |
| ACROLEIN | | | 569.06 | 0.16 | 569.22 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 77.76 | | 0.00 | 77.76 |
| ANTIMONY | 0.01 | | | | 0.01 |
| ARSENIC | 0.15 | 0.00 | 0.03 | | 0.19 |
| ATRAZINE | | 285.98 | | | 285.98 |
| BENZ(A)ANTHR | | 233.28 | | 0.00 | 233.28 |
| BENZ(GHI)PE | | 19.44 | | 0.00 | 19.44 |
| BENZENE | 29.81 | 23,067.38 | 23,096.76 | 2,227.91 | 48,421.86 |
| BENZO(A)PYRE | | 38.88 | | 0.00 | 38.88 |
| BENZO(B)FLUO | | 38.88 | | 0.00 | 38.88 |
| BENZO(K)FLUO | | 19.44 | | 0.00 | 19.44 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 2,985.53 | 0.27 | 2,985.80 |
| CADMIUM | 0.03 | 0.45 | | | 0.48 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 21.56 | | | 21.56 |
| CHROMIUM | 0.45 | 0.01 | 0.74 | | 1.21 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 97.20 | | 0.00 | 97.20 |
| COBALT | 0.01 | | | | 0.01 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 120.68 | | 120.68 |
| DIBENZAHAN | | 19.44 | | 0.00 | 19.44 |
| DIBROMOET,12 | | 2.04 | | | 2.04 |
| DIBUTYL PHTH | 0.00 | 674.02 | | | 674.02 |
| DICHLORETH12 | 2.30 | 21.07 | | | 23.36 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 2,006.07 | 9,987.86 | 852.92 | 12,846.85 |
| ETHYLENE OXI | | 329.04 | | | 329.04 |
| FLUORANTHENE | | 116.64 | | 0.00 | 116.64 |
| FLUORENE | | 136.08 | | | 136.08 |
| FORMALDEHYDE | 393,268.28 | 27.59 | 10,575.32 | 6,292.75 | 410,163.94 |
| GLYCOL ETHRS | | 880.93 | | | 880.93 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 38.88 | | 0.00 | 38.88 |
| LEAD | 45.00 | | 41.00 | | 86.00 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 0.13 | 2.14 | 1.31 | | 3.57 |
| MERCURY | 7.32 | 0.22 | 0.86 | | 8.41 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 6,257.74 | | | 6,257.74 |
| NAPHTHALENE | 0.00 | 4,085.27 | 1,472.41 | 0.00 | 5,557.69 |
| NICKEL | 0.40 | 0.02 | 0.96 | | 1.38 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 24,096.67 | | | 24,096.67 |
| PHENANTHRENE | 0.00 | 4,753.12 | | 0.00 | 4,753.12 |
| PHENOL | 0.00 | | | 0.05 | 0.05 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 97.20 | | 0.00 | 97.20 |
| STYRENE | | | 5,990.15 | 0.08 | 5,990.23 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 28,851.14 | | | 28,851.14 |
| TOLUENE | | 46,361.28 | 68,179.09 | 3,794.15 | 118,334.52 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 19,333.25 | | | 19,333.25 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 50.07 | | | 50.07 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 210.73 | 19,368.92 | 2,367.16 | 21,946.81 |
| XYLENE,O | | 2,349.17 | 10,616.59 | 1,158.17 | 14,123.93 |
| XYLENE,P | | 210.73 | | | 210.73 |
| XYLENES ISO | | 26,134.50 | 38,581.33 | 0.92 | 64,716.76 |

# Michigan - Ottawa Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.05 | 133.00 | | | 133.05 |
| ACENAPHTHYL | 0.61 | 1,510.00 | | | 1,510.61 |
| ACETALDEHYDE | 41.73 | | 39,454.41 | 21,063.22 | 60,559.36 |
| ACROLEIN | 0.06 | | 5,805.18 | 0.57 | 5,805.80 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.53 | 177.13 | | 0.00 | 177.66 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 125.76 | 0.01 | 0.28 | | 126.05 |
| ATRAZINE | | 36,490.63 | | | 36,490.63 |
| BENZ(A)ANTHR | 0.03 | 531.39 | | 0.00 | 531.42 |
| BENZ(GHI)PE | 0.02 | 44.28 | | 0.00 | 44.30 |
| BENZENE | 5,002.00 | 76,578.43 | 276,149.35 | 12,665.31 | 370,395.09 |
| BENZO(A)PYRE | 0.00 | 88.56 | | 0.00 | 88.56 |
| BENZO(B)FLUO | | 88.56 | | 0.00 | 88.56 |
| BENZO(K)FLUO | | 44.28 | | 0.00 | 44.28 |
| BERYLLIUM | 14.83 | 0.00 | | | 14.83 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 35,695.22 | 0.90 | 35,696.12 |
| CADMIUM | 8.46 | 1.02 | | | 9.48 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 217.96 | | | 217.96 |
| CHROMIUM | 259.01 | 0.03 | 6.34 | | 265.38 |
| CHROMIUM VI | 0.60 | | | | 0.60 |
| CHRYSENE | 0.63 | 221.00 | | 0.00 | 221.63 |
| COBALT | 1.68 | | | | 1.68 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 4.51 | | 1,148.74 | | 1,153.25 |
| DIBENZAHAN | | 44.28 | | 0.00 | 44.28 |
| DIBROMOET,12 | | 7.17 | | | 7.17 |
| DIBUTYL PHTH | | 2,607.92 | | | 2,607.92 |
| DICHLORETH12 | | 74.57 | | | 74.57 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 2.87 | 19,509.85 | 117,304.61 | 4,848.83 | 141,666.16 |
| ETHYLENE OXI | | 3,322.54 | | | 3,322.54 |
| FLUORANTHENE | 1.33 | 265.69 | | 0.00 | 267.02 |
| FLUORENE | 0.13 | 309.98 | | | 310.11 |
| FORMALDEHYDE | 16,528.98 | 278.85 | 101,589.03 | 62,321.78 | 180,718.64 |
| GLYCOL ETHRS | | 8,904.32 | | | 8,904.32 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.00 | 88.56 | | 0.00 | 88.56 |
| LEAD | 93.24 | | 301.85 | | 395.08 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 796.67 | 4.87 | 11.62 | | 813.15 |
| MERCURY | 1,281.83 | 0.98 | 5.28 | | 1,288.09 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 1,756.71 | 63,295.78 | | | 65,052.49 |
| NAPHTHALENE | 133.45 | 21,142.50 | 17,525.50 | 0.01 | 38,801.46 |
| NICKEL | 218.94 | 0.06 | 7.84 | | 226.85 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0002 | | | | 0.0002 |
| PCDF | 0.0007 | | | | 0.0007 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 243,834.44 | | | 243,834.44 |
| PHENANTHRENE | 0.79 | 10,827.04 | | 0.00 | 10,827.83 |
| PHENOL | 15.83 | | | 0.16 | 15.99 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.23 | 221.41 | | 0.00 | 221.64 |
| STYRENE | | | 64,899.96 | 0.26 | 64,900.22 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | 0.0000 | | | | 0.0000 |
| TCE,111 | 7,035.37 | 291,858.22 | | | 298,893.59 |
| TOLUENE | 5,485.03 | 373,223.53 | 806,360.17 | 21,568.23 | 1,206,636.97 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 195,638.98 | | | 195,638.98 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 177.62 | | | 177.62 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 2,132.40 | 231,059.18 | 13,458.85 | 246,650.43 |
| XYLENE,O | | 15,331.97 | 125,259.13 | 6,584.84 | 147,175.94 |
| XYLENE,P | | 2,132.40 | | | 2,132.40 |
| XYLENES ISO | 30,746.07 | 186,971.10 | 455,478.67 | 2.93 | 673,198.77 |

# Michigan - Presque Isle Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.01 | 72.30 | | | 72.31 |
| ACENAPHTHYL | 0.00 | 819.00 | | | 819.00 |
| ACETALDEHYDE | | | 2,776.65 | 5,292.02 | 8,068.67 |
| ACROLEIN | | | 395.01 | | 395.01 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.00 | 96.41 | | | 96.41 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.00 | 0.00 | 0.02 | | 0.02 |
| ATRAZINE | | 2,093.20 | | | 2,093.20 |
| BENZ(A)ANTHR | 0.00 | 289.22 | | | 289.22 |
| BENZ(GHI)PE | | 24.10 | | | 24.10 |
| BENZENE | 2.73 | 20,440.94 | 16,079.72 | 6,514.59 | 43,037.98 |
| BENZO(A)PYRE | 0.00 | 48.20 | | | 48.20 |
| BENZO(B)FLUO | 0.00 | 48.20 | | | 48.20 |
| BENZO(K)FLUO | | 24.10 | | | 24.10 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 2,078.49 | | 2,078.49 |
| CADMIUM | 0.02 | 0.55 | | | 0.57 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 14.22 | | | 14.22 |
| CHROMIUM | | 0.01 | 0.51 | | 0.52 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.00 | 121.00 | | | 121.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.01 | | 81.68 | | 81.68 |
| DIBENZAHAN | | 24.10 | | | 24.10 |
| DIBROMOET,12 | | 0.52 | | | 0.52 |
| DIBUTYL PHTH | | 454.80 | | | 454.80 |
| DICHLORETH12 | | 5.35 | | | 5.35 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 1,205.67 | 6,950.27 | 2,494.16 | 10,650.09 |
| ETHYLENE OXI | | 217.17 | | | 217.17 |
| FLUORANTHENE | 0.00 | 144.61 | | | 144.61 |
| FLUORENE | 0.00 | 168.71 | | | 168.71 |
| FORMALDEHYDE | 405.00 | 18.20 | 7,333.44 | 15,657.83 | 23,414.48 |
| GLYCOL ETHRS | | 580.97 | | | 580.97 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 48.20 | | | 48.20 |
| LEAD | 0.01 | | 28.20 | | 28.21 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 0.22 | 2.65 | 0.90 | | 3.77 |
| MERCURY | 0.00 | 0.18 | 0.59 | | 0.77 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 4,184.46 | | | 4,184.46 |
| NAPHTHALENE | 0.25 | 3,373.53 | 1,024.95 | | 4,398.74 |
| NICKEL | 0.00 | 0.03 | 0.66 | | 0.69 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 4,980.17 | | | 4,980.17 |
| PHENANTHRENE | 0.07 | 5,892.81 | | | 5,892.88 |
| PHENOL | | | | | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 120.51 | | | 120.51 |
| STYRENE | | | 4,159.62 | | 4,159.62 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 0.57 | 19,339.81 | | | 19,340.38 |
| TOLUENE | 1.57 | 25,285.70 | 47,451.65 | 11,093.42 | 83,832.33 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 13,045.96 | | | 13,045.96 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 78.06 | | | 78.06 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 142.20 | 13,483.59 | 6,924.08 | 20,549.87 |
| XYLENE,O | | 2,346.54 | 7,388.43 | 3,387.59 | 13,122.56 |
| XYLENE,P | | 142.20 | | | 142.20 |
| XYLENES ISO | 0.48 | 11,994.07 | 26,851.08 | | 38,845.63 |

# Michigan - Roscommon Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.01 | 66.50 | | | 66.51 |
| ACENAPHTHYL | 0.00 | 754.00 | | | 754.00 |
| ACETALDEHYDE | | | 4,467.46 | 2,958.98 | 7,426.44 |
| ACROLEIN | | | 635.11 | 0.13 | 635.23 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.00 | 88.67 | | 0.00 | 88.67 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.00 | 0.00 | 0.04 | | 0.04 |
| ATRAZINE | | 0.00 | | | 0.00 |
| BENZ(A)ANTHR | 0.00 | 266.02 | | 0.00 | 266.02 |
| BENZ(GHI)PE | | 22.17 | | 0.00 | 22.17 |
| BENZENE | 10.25 | 22,849.80 | 25,764.49 | 3,439.98 | 52,064.52 |
| BENZO(A)PYRE | 0.00 | 44.34 | | 0.00 | 44.34 |
| BENZO(B)FLUO | 0.00 | 44.34 | | 0.00 | 44.34 |
| BENZO(K)FLUO | | 22.17 | | 0.00 | 22.17 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 3,330.37 | 0.13 | 3,330.50 |
| CADMIUM | 0.00 | 0.51 | | | 0.51 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 23.00 | | | 23.00 |
| CHROMIUM | | 0.01 | 0.83 | | 0.84 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.00 | 111.00 | | 0.00 | 111.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.00 | | 132.36 | | 132.36 |
| DIBENZAHAN | | 22.17 | | 0.00 | 22.17 |
| DIBROMOET,12 | | 1.41 | | | 1.41 |
| DIBUTYL PHTH | | 722.22 | | | 722.22 |
| DICHLORETH12 | | 14.63 | | | 14.63 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 2,053.91 | 11,142.38 | 1,316.99 | 14,513.27 |
| ETHYLENE OXI | | 350.44 | | | 350.44 |
| FLUORANTHENE | 0.00 | 133.01 | | 0.00 | 133.01 |
| FLUORENE | 0.00 | 155.18 | | | 155.18 |
| FORMALDEHYDE | 533.79 | 29.42 | 11,804.92 | 8,755.03 | 21,123.16 |
| GLYCOL ETHRS | | 939.59 | | | 939.59 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 44.34 | | 0.00 | 44.34 |
| LEAD | 40.00 | | 45.73 | | 85.73 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 0.33 | 2.44 | 1.46 | | 4.23 |
| MERCURY | 0.00 | 0.38 | 0.96 | | 1.34 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 6,693.00 | | | 6,693.00 |
| NAPHTHALENE | 0.34 | 4,150.20 | 1,642.52 | 0.00 | 5,793.06 |
| NICKEL | 0.00 | 0.02 | 1.07 | | 1.09 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 25,817.17 | | | 25,817.17 |
| PHENANTHRENE | 0.10 | 5,420.15 | | 0.00 | 5,420.25 |
| PHENOL | | | | 0.02 | 0.02 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 110.84 | | 0.00 | 110.84 |
| STYRENE | | | 6,685.04 | 0.03 | 6,685.08 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 8.61 | 30,873.17 | | | 30,881.78 |
| TOLUENE | 23.84 | 43,747.31 | 76,057.87 | 5,857.75 | 125,686.79 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 20,716.04 | | | 20,716.04 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 8.39 | | | 8.39 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 225.80 | 21,606.32 | 3,655.94 | 25,488.06 |
| XYLENE,O | | 2,593.38 | 11,843.61 | 1,788.68 | 16,225.67 |
| XYLENE,P | | 225.80 | | | 225.80 |
| XYLENES ISO | 7.29 | 23,166.17 | 43,040.06 | 0.23 | 66,213.74 |

# Michigan - Saginaw Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.00 | 103.00 | | | 103.00 |
| ACENAPHTHYL | 0.00 | 1,170.00 | | | 1,170.00 |
| ACETALDEHYDE | | | 47,513.34 | 11,908.18 | 59,421.52 |
| ACROLEIN | | | 6,979.73 | 4.99 | 6,984.71 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.00 | 137.96 | | 0.00 | 137.96 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 53.44 | 0.01 | 0.33 | | 53.77 |
| ATRAZINE | | 69,001.59 | | | 69,001.59 |
| BENZ(A)ANTHR | 0.00 | 413.88 | | 0.00 | 413.88 |
| BENZ(GHI)PE | | 34.49 | | 0.00 | 34.49 |
| BENZENE | 3,990.58 | 77,592.82 | 329,767.32 | 4,458.24 | 415,808.96 |
| BENZO(A)PYRE | 0.00 | 68.98 | | 0.00 | 68.98 |
| BENZO(B)FLUO | 0.00 | 68.98 | | 0.00 | 68.98 |
| BENZO(K)FLUO | | 34.49 | | 0.00 | 34.49 |
| BERYLLIUM | 0.01 | 0.00 | | | 0.01 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 42,625.87 | 4.66 | 42,630.52 |
| CADMIUM | 4.08 | 0.79 | | | 4.88 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 208.82 | | | 208.82 |
| CHROMIUM | 149.51 | 0.03 | 7.33 | | 156.87 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.00 | 172.00 | | 0.00 | 172.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 183.86 | | 1,295.81 | | 1,479.67 |
| DIBENZAHAN | | 34.49 | | 0.00 | 34.49 |
| DIBROMOET,12 | | 10.62 | | | 10.62 |
| DIBUTYL PHTH | | 6,697.57 | | | 6,697.57 |
| DICHLORETH12 | | 110.18 | | | 110.18 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.14 | 20,252.04 | 139,929.94 | 1,705.47 | 161,887.59 |
| ETHYLENE OXI | | 3,184.22 | | | 3,184.22 |
| FLUORANTHENE | 0.01 | 206.94 | | 0.00 | 206.95 |
| FLUORENE | 0.00 | 241.43 | | | 241.43 |
| FORMALDEHYDE | 492.67 | 267.15 | 122,492.49 | 35,238.89 | 158,491.19 |
| GLYCOL ETHRS | | 8,530.87 | | | 8,530.87 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 68.98 | | 0.00 | 68.98 |
| LEAD | 2,325.98 | | 354.18 | | 2,680.16 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 24,160.18 | 3.79 | 13.38 | | 24,177.35 |
| MERCURY | 0.31 | 0.87 | 6.33 | | 7.52 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 1,147.41 | 61,552.98 | | | 62,700.39 |
| NAPHTHALENE | 6.57 | 21,202.12 | 20,919.19 | 0.16 | 42,128.04 |
| NICKEL | 0.05 | 0.05 | 9.10 | | 9.20 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 239,307.86 | | | 239,307.86 |
| PHENANTHRENE | 0.02 | 8,432.81 | | 0.00 | 8,432.83 |
| PHENOL | 0.12 | | | 0.66 | 0.78 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 172.45 | | 0.00 | 172.45 |
| STYRENE | 48.89 | | 76,823.02 | 1.02 | 76,872.92 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 16.85 | 284,574.78 | | | 284,591.63 |
| TOLUENE | 47.55 | 467,816.18 | 962,058.02 | 7,586.75 | 1,437,508.49 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 192,124.02 | | | 192,124.02 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 2,784.69 | | | 2,784.69 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 2,094.12 | 275,862.34 | 4,731.70 | 282,688.16 |
| XYLENE,O | | 23,219.32 | 149,386.46 | 2,315.50 | 174,921.27 |
| XYLENE,P | | 2,094.12 | | | 2,094.12 |
| XYLENES ISO | 49,875.01 | 210,199.66 | 543,463.81 | 3.71 | 803,542.20 |

# Michigan - St. Clair Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.08 | 123.00 | | | 123.08 |
| ACENAPHTHYL | 0.00 | 1,390.00 | | | 1,390.00 |
| ACETALDEHYDE | | | 30,494.17 | 10,928.59 | 41,422.75 |
| ACROLEIN | | | 4,387.87 | 0.39 | 4,388.25 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.00 | 163.98 | | 0.00 | 163.98 |
| ANTIMONY | 20.31 | | | | 20.31 |
| ARSENIC | 138.88 | 0.01 | 0.25 | | 139.14 |
| ATRAZINE | | 88,058.34 | | | 88,058.34 |
| BENZ(A)ANTHR | 0.02 | 491.93 | | 0.00 | 491.95 |
| BENZ(GHI)PE | 0.01 | 40.99 | | 0.00 | 41.00 |
| BENZENE | 202.96 | 76,428.67 | 189,083.24 | 3,413.23 | 269,128.10 |
| BENZO(A)PYRE | 0.00 | 81.99 | | 0.00 | 81.99 |
| BENZO(B)FLUO | | 81.99 | | 0.00 | 81.99 |
| BENZO(K)FLUO | | 40.99 | | 0.00 | 40.99 |
| BERYLLIUM | 20.59 | 0.00 | | | 20.59 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 24,440.98 | 0.54 | 24,441.52 |
| CADMIUM | 19.91 | 0.94 | | | 20.86 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 156.15 | | | 156.15 |
| CHROMIUM | 491.47 | 0.03 | 4.40 | | 495.90 |
| CHROMIUM VI | 0.96 | | | | 0.96 |
| CHRYSENE | 0.01 | 205.00 | | 0.00 | 205.01 |
| COBALT | 23.29 | | | | 23.29 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 6.85 | | 1,011.02 | | 1,017.88 |
| DIBENZAHAN | 0.01 | 40.99 | | 0.00 | 41.00 |
| DIBROMOET,12 | | 8.86 | | | 8.86 |
| DIBUTYL PHTH | | 4,925.33 | | | 4,925.33 |
| DICHLORETH12 | | 91.74 | | | 91.74 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 28.17 | 14,146.27 | 80,463.92 | 1,306.66 | 95,945.03 |
| ETHYLENE OXI | | 2,381.27 | | | 2,381.27 |
| FLUORANTHENE | 0.03 | 245.97 | | 0.00 | 246.00 |
| FLUORENE | 0.02 | 286.96 | | | 286.98 |
| FORMALDEHYDE | 2,597.77 | 199.77 | 79,853.51 | 32,335.52 | 114,986.57 |
| GLYCOL ETHRS | | 6,379.34 | | | 6,379.34 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.01 | 81.99 | | 0.00 | 82.00 |
| LEAD | 332.12 | | 233.48 | | 565.60 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 416.04 | 4.51 | 7.79 | | 428.34 |
| MERCURY | 2,595.40 | 1.21 | 4.76 | | 2,601.37 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 44.10 | 45,564.44 | | | 45,608.54 |
| NAPHTHALENE | 5.58 | 17,639.63 | 11,995.23 | 0.01 | 29,640.45 |
| NICKEL | 620.26 | 0.06 | 5.57 | | 625.90 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 20,250.00 | 176,049.30 | | | 196,299.30 |
| PHENANTHRENE | 0.04 | 10,023.07 | | 0.00 | 10,023.11 |
| PHENOL | | | | 0.10 | 0.10 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.02 | 204.97 | | 0.00 | 204.99 |
| STYRENE | 100,063.21 | | 44,319.83 | 0.15 | 144,383.19 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 0.91 | 210,278.00 | | | 210,278.91 |
| TOLUENE | 480.49 | 294,634.05 | 552,031.84 | 5,812.68 | 852,959.06 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 251.28 | 141,279.90 | | | 141,531.18 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 1,848.89 | | | 1,848.89 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 1,539.91 | 158,178.33 | 3,626.34 | 163,344.58 |
| XYLENE,O | 0.42 | 10,266.52 | 85,666.52 | 1,774.25 | 97,707.71 |
| XYLENE,P | | 1,539.91 | | | 1,539.91 |
| XYLENES ISO | 83.73 | 152,733.90 | 312,160.08 | 1.57 | 464,979.28 |

# Michigan - St. Joseph Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 102.00 | | | 102.00 |
| ACENAPHTHYL | | 1,150.00 | | | 1,150.00 |
| ACETALDEHYDE | | | 11,445.94 | 5,670.22 | 17,116.17 |
| ACROLEIN | | | 1,628.40 | 0.37 | 1,628.77 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 135.36 | | 0.00 | 135.36 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 1.34 | 0.01 | 0.10 | | 1.44 |
| ATRAZINE | | 0.00 | | | 0.00 |
| BENZ(A)ANTHR | 0.00 | 406.08 | | 0.00 | 406.08 |
| BENZ(GHI)PE | | 33.84 | | 0.00 | 33.84 |
| BENZENE | 211.04 | 38,605.24 | 66,314.48 | 3,527.90 | 108,658.66 |
| BENZO(A)PYRE | | 67.68 | | 0.00 | 67.68 |
| BENZO(B)FLUO | | 67.68 | | 0.00 | 67.68 |
| BENZO(K)FLUO | | 33.84 | | 0.00 | 33.84 |
| BERYLLIUM | | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 8,571.93 | 0.48 | 8,572.41 |
| CADMIUM | 0.11 | 0.78 | | | 0.89 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 60.58 | | | 60.58 |
| CHROMIUM | | 0.03 | 2.13 | | 2.16 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | 0.05 | 169.00 | | 0.00 | 169.05 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 1.09 | | 346.92 | | 348.01 |
| DIBENZAHAN | | 33.84 | | 0.00 | 33.84 |
| DIBROMOET,12 | 0.00 | 2.65 | | | 2.65 |
| DIBUTYL PHTH | | 1,287.53 | | | 1,287.53 |
| DICHLORETH12 | 0.01 | 27.55 | | | 27.56 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 3.49 | 9,596.37 | 28,666.37 | 1,350.58 | 39,616.81 |
| ETHYLENE OXI | | 924.07 | | | 924.07 |
| FLUORANTHENE | 0.08 | 203.04 | | 0.00 | 203.12 |
| FLUORENE | | 236.88 | | | 236.88 |
| FORMALDEHYDE | 127.01 | 77.50 | 30,228.39 | 16,777.22 | 47,210.12 |
| GLYCOL ETHRS | | 2,474.99 | | | 2,474.99 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 67.68 | | 0.00 | 67.68 |
| LEAD | 220.82 | | 116.88 | | 337.70 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 140.05 | 3.72 | 3.76 | | 147.53 |
| MERCURY | 0.00 | 0.58 | 2.44 | | 3.02 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 17,779.95 | | | 17,779.95 |
| NAPHTHALENE | 148.41 | 8,161.89 | 4,227.17 | 0.01 | 12,537.47 |
| NICKEL | | 0.05 | 2.74 | | 2.79 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 68,941.64 | | | 68,941.64 |
| PHENANTHRENE | | 8,273.78 | | 0.00 | 8,273.78 |
| PHENOL | 0.01 | | | 0.08 | 0.09 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 169.20 | | 0.00 | 169.20 |
| STYRENE | | | 17,166.65 | 0.13 | 17,166.79 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | 0.0000 | | | | 0.0000 |
| TCE,111 | | 82,137.89 | | | 82,137.89 |
| TOLUENE | 129,804.51 | 401,819.41 | 195,710.96 | 6,007.79 | 733,342.67 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 55,338.81 | | | 55,338.81 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 0.02 | | | 0.02 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 603.18 | 55,608.81 | 3,748.45 | 59,960.45 |
| XYLENE,O | | 40,183.70 | 30,474.06 | 1,833.99 | 72,491.75 |
| XYLENE,P | | 603.18 | | | 603.18 |
| XYLENES ISO | 18.50 | 82,897.43 | 110,744.83 | 1.27 | 193,662.03 |

# Michigan - Sanilac Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.16 | 72.70 | | | 72.86 |
| ACENAPHTHYL | 0.06 | 824.00 | | | 824.06 |
| ACETALDEHYDE | | | 10,710.62 | 8,844.77 | 19,555.39 |
| ACROLEIN | | | 1,521.22 | 0.00 | 1,521.22 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.06 | 96.91 | | 0.00 | 96.97 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 10.49 | 0.00 | 0.09 | | 10.59 |
| ATRAZINE | | 41,869.21 | | | 41,869.21 |
| BENZ(A)ANTHR | 0.00 | 290.74 | | 0.00 | 290.74 |
| BENZ(GHI)PE | | 24.23 | | 0.00 | 24.23 |
| BENZENE | 57.13 | 27,217.51 | 61,421.47 | 3,427.09 | 92,123.21 |
| BENZO(A)PYRE | 0.00 | 48.46 | | 0.00 | 48.46 |
| BENZO(B)FLUO | 0.03 | 48.46 | | | 48.49 |
| BENZO(K)FLUO | | 24.23 | | | 24.23 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 7,939.46 | 0.00 | 7,939.46 |
| CADMIUM | 0.83 | 0.56 | | | 1.40 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 42.35 | | | 42.35 |
| CHROMIUM | | 0.01 | 2.02 | | 2.03 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.00 | 121.00 | | 0.00 | 121.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.00 | | 326.65 | | 326.65 |
| DIBENZAHAN | | 24.23 | | | 24.23 |
| DIBROMOET,12 | | 1.85 | | | 1.85 |
| DIBUTYL PHTH | | 1,342.19 | | | 1,342.19 |
| DICHLORETH12 | | 19.24 | | | 19.24 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 3,623.69 | 26,584.15 | 1,312.09 | 31,519.92 |
| ETHYLENE OXI | | 646.76 | | | 646.76 |
| FLUORANTHENE | 0.02 | 145.37 | | 0.00 | 145.39 |
| FLUORENE | 0.01 | 169.60 | | | 169.61 |
| FORMALDEHYDE | 8,362.71 | 54.18 | 28,321.13 | 26,169.59 | 62,907.60 |
| GLYCOL ETHRS | | 1,730.18 | | | 1,730.18 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 48.46 | | | 48.46 |
| LEAD | 8.04 | | 111.19 | | 119.23 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 2.48 | 2.67 | 3.56 | | 8.71 |
| MERCURY | 0.00 | 0.31 | 2.33 | | 2.64 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 12,393.34 | | | 12,393.34 |
| NAPHTHALENE | 5.24 | 5,766.38 | 3,916.57 | 0.00 | 9,688.19 |
| NICKEL | 0.00 | 0.03 | 2.60 | | 2.63 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 47,969.56 | | | 47,969.56 |
| PHENANTHRENE | 1.51 | 5,923.73 | | 0.00 | 5,925.24 |
| PHENOL | | | | 0.00 | 0.00 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.01 | 121.14 | | 0.00 | 121.15 |
| STYRENE | 0.20 | | 16,009.07 | 0.00 | 16,009.27 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 12.92 | 57,223.96 | | | 57,236.88 |
| TOLUENE | 1,135.78 | 65,145.64 | 181,412.86 | 5,835.85 | 253,530.13 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 38,500.17 | | | 38,500.17 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 2,243.71 | | | 2,243.71 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 419.64 | 51,514.32 | 3,642.51 | 55,576.47 |
| XYLENE,O | | 2,563.37 | 28,253.25 | 1,782.09 | 32,598.71 |
| XYLENE,P | | 419.64 | | | 419.64 |
| XYLENES ISO | 10.93 | 37,602.22 | 102,664.87 | 0.00 | 140,278.02 |

# Michigan - Schoolcraft Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 45.00 | | | 45.00 |
| ACENAPHTHYL | | 510.00 | | | 510.00 |
| ACETALDEHYDE | | | 1,361.71 | 3,539.92 | 4,901.63 |
| ACROLEIN | | | 194.06 | 0.65 | 194.71 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 59.98 | | 0.00 | 59.98 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 20.91 | 0.00 | 0.01 | | 20.92 |
| ATRAZINE | | 27,133.24 | | | 27,133.24 |
| BENZ(A)ANTHR | | 179.95 | | 0.00 | 179.95 |
| BENZ(GHI)PE | | 15.00 | | 0.00 | 15.00 |
| BENZENE | | 19,165.64 | 7,967.72 | 15,433.30 | 42,566.66 |
| BENZO(A)PYRE | | 29.99 | | 0.00 | 29.99 |
| BENZO(B)FLUO | | 29.99 | | 0.00 | 29.99 |
| BENZO(K)FLUO | | 15.00 | | 0.00 | 15.00 |
| BERYLLIUM | 0.04 | 0.00 | | | 0.04 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 1,029.92 | 1.02 | 1,030.94 |
| CADMIUM | 1.82 | 0.34 | | | 2.16 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 8.64 | | | 8.64 |
| CHROMIUM | 66.01 | 0.01 | 0.24 | | 66.26 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 75.00 | | 0.00 | 75.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 37.71 | | 37.71 |
| DIBENZAHAN | | 15.00 | | 0.00 | 15.00 |
| DIBROMOET,12 | | 2.08 | | | 2.08 |
| DIBUTYL PHTH | | 272.68 | | | 272.68 |
| DICHLORETH12 | | 21.43 | | | 21.43 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 916.60 | 3,438.81 | 5,908.55 | 10,263.96 |
| ETHYLENE OXI | | 132.14 | | | 132.14 |
| FLUORANTHENE | | 89.97 | | 0.00 | 89.97 |
| FLUORENE | | 104.97 | | | 104.97 |
| FORMALDEHYDE | 233.59 | 11.05 | 3,591.93 | 10,474.61 | 14,311.18 |
| GLYCOL ETHRS | | 352.99 | | | 352.99 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 29.99 | | 0.00 | 29.99 |
| LEAD | 28.11 | | 13.50 | | 41.61 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 0.20 | 1.65 | 0.43 | | 2.28 |
| MERCURY | 0.04 | 0.11 | 0.29 | | 0.43 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 2,522.01 | | | 2,522.01 |
| NAPHTHALENE | | 2,872.06 | 507.66 | 0.01 | 3,379.73 |
| NICKEL | 0.26 | 0.02 | 0.31 | | 0.60 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 9,746.23 | | | 9,746.23 |
| PHENANTHRENE | | 3,666.44 | | 0.00 | 3,666.44 |
| PHENOL | | | | 0.18 | 0.18 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 74.98 | | 0.00 | 74.98 |
| STYRENE | | | 2,043.55 | 0.29 | 2,043.84 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 11,639.59 | | | 11,639.59 |
| TOLUENE | | 28,646.92 | 23,490.01 | 26,281.84 | 78,418.77 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 7,821.46 | | | 7,821.46 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 1,235.60 | | | 1,235.60 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 85.25 | 6,679.89 | 16,400.51 | 23,165.65 |
| XYLENE,O | | 1,457.61 | 3,656.53 | 8,024.05 | 13,138.19 |
| XYLENE,P | | 85.25 | | | 85.25 |
| XYLENES ISO | | 18,097.83 | 13,290.71 | 3.29 | 31,391.84 |

# Michigan - Shiawassee Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 79.80 | | | 79.80 |
| ACENAPHTHYL | | 904.00 | | | 904.00 |
| ACETALDEHYDE | | | 12,830.41 | 5,193.76 | 18,024.17 |
| ACROLEIN | | | 1,826.01 | 0.24 | 1,826.25 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 106.38 | | 0.00 | 106.38 |
| ANTIMONY | 0.05 | | | | 0.05 |
| ARSENIC | 0.14 | 0.00 | 0.11 | | 0.25 |
| ATRAZINE | | 92,745.22 | | | 92,745.22 |
| BENZ(A)ANTHR | | 319.14 | | 0.00 | 319.14 |
| BENZ(GHI)PE | | 26.59 | | 0.00 | 26.59 |
| BENZENE | 312.00 | 36,778.38 | 74,493.97 | 2,884.09 | 114,468.43 |
| BENZO(A)PYRE | | 53.19 | | 0.00 | 53.19 |
| BENZO(B)FLUO | | 53.19 | | 0.00 | 53.19 |
| BENZO(K)FLUO | | 26.59 | | 0.00 | 26.59 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 9,629.22 | 0.40 | 9,629.62 |
| CADMIUM | 0.07 | 0.61 | | | 0.68 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 71.67 | | | 71.67 |
| CHROMIUM | 0.23 | 0.01 | 2.38 | | 2.62 |
| CHROMIUM VI | | | | | 0.00 |
| CHRYSENE | | 133.00 | | 0.00 | 133.00 |
| COBALT | 0.01 | | | | 0.01 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | | | 389.07 | | 389.07 |
| DIBENZAHAN | | 26.59 | | 0.00 | 26.59 |
| DIBROMOET,12 | | 3.48 | | | 3.48 |
| DIBUTYL PHTH | 14.63 | 2,284.11 | | | 2,298.74 |
| DICHLORETH12 | | 36.08 | | | 36.08 |
| DIEYLHEX PHT | 208.93 | | | | 208.93 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 4.60 | 7,285.13 | 32,194.89 | 1,104.12 | 40,588.74 |
| ETHYLENE OXI | | 1,092.65 | | | 1,092.65 |
| FLUORANTHENE | | 159.57 | | 0.00 | 159.57 |
| FLUORENE | | 186.16 | | | 186.16 |
| FORMALDEHYDE | | 91.71 | 33,876.04 | 15,367.43 | 49,335.18 |
| GLYCOL ETHRS | | 2,928.26 | | | 2,928.26 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 53.19 | | 0.00 | 53.19 |
| LEAD | 0.67 | | 130.58 | | 131.24 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 1.29 | 2.93 | 4.20 | | 8.42 |
| MERCURY | 0.24 | 0.39 | 2.73 | | 3.35 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 625.86 | 21,045.27 | | | 21,671.13 |
| NAPHTHALENE | 6.79 | 8,572.76 | 4,748.28 | 0.00 | 13,327.83 |
| NICKEL | 0.32 | 0.03 | 3.06 | | 3.42 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 0.29 | 81,624.33 | | | 81,624.62 |
| PHENANTHRENE | | 6,502.41 | | 0.00 | 6,502.41 |
| PHENOL | 8.98 | | | 0.07 | 9.06 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 132.97 | | 0.00 | 132.97 |
| STYRENE | 2.09 | | 19,260.47 | 0.12 | 19,262.68 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 0.49 | 97,230.01 | | | 97,230.50 |
| TOLUENE | 16.71 | 187,551.06 | 219,819.88 | 4,911.69 | 412,299.35 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 53,284.00 | 65,520.25 | | | 118,804.25 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 974.50 | | | 974.50 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 714.16 | 62,466.00 | 3,064.20 | 66,244.35 |
| XYLENE,O | 6.06 | 12,244.55 | 34,226.93 | 1,499.21 | 47,976.75 |
| XYLENE,P | | 714.16 | | | 714.16 |
| XYLENES ISO | 1,147.00 | 73,436.52 | 124,384.40 | 1.36 | 198,969.28 |

# Michigan - Tuscola Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.00 | 97.50 | | | 97.50 |
| ACENAPHTHYL | 0.00 | 1,110.00 | | | 1,110.00 |
| ACETALDEHYDE | | | 13,243.45 | 7,084.70 | 20,328.15 |
| ACROLEIN | | | 1,882.00 | 0.10 | 1,882.10 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 0.00 | 130.01 | | 0.00 | 130.01 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 10.35 | 0.00 | 0.11 | | 10.47 |
| ATRAZINE | | 73,372.33 | | | 73,372.33 |
| BENZ(A)ANTHR | 0.00 | 390.03 | | 0.00 | 390.03 |
| BENZ(GHI)PE | | 32.50 | | 0.00 | 32.50 |
| BENZENE | 520.99 | 35,668.96 | 76,203.90 | 3,647.48 | 116,041.33 |
| BENZO(A)PYRE | 0.00 | 65.01 | | 0.00 | 65.01 |
| BENZO(B)FLUO | 0.00 | 65.01 | | 0.00 | 65.01 |
| BENZO(K)FLUO | | 32.50 | | 0.00 | 32.50 |
| BERYLLIUM | 0.00 | 0.00 | | | 0.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 9,850.26 | 0.16 | 9,850.42 |
| CADMIUM | 0.82 | 0.75 | | | 1.57 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 57.54 | | | 57.54 |
| CHROMIUM | | 0.02 | 2.49 | | 2.51 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.00 | 163.00 | | 0.00 | 163.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 5.83 | | 405.78 | | 411.61 |
| DIBENZAHAN | | 32.50 | | 0.00 | 32.50 |
| DIBROMOET,12 | | 2.25 | | | 2.25 |
| DIBUTYL PHTH | | 6.18 | | | 6.18 |
| DICHLORETH12 | | 23.29 | | | 23.29 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.21 | 5,038.76 | 32,968.73 | 1,396.43 | 39,404.13 |
| ETHYLENE OXI | | 877.68 | | | 877.68 |
| FLUORANTHENE | 0.01 | 195.02 | | 0.00 | 195.03 |
| FLUORENE | 0.00 | 227.52 | | | 227.52 |
| FORMALDEHYDE | 132.94 | 73.61 | 35,004.32 | 20,962.09 | 56,172.97 |
| GLYCOL ETHRS | | 2,350.60 | | | 2,350.60 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 65.01 | | 0.00 | 65.01 |
| LEAD | 748.07 | | 136.79 | | 884.85 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 427.64 | 3.58 | 4.39 | | 435.61 |
| MERCURY | 0.00 | 0.31 | 2.86 | | 3.18 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 16,852.78 | | | 16,852.78 |
| NAPHTHALENE | 9.48 | 7,674.74 | 4,858.65 | 0.00 | 12,542.86 |
| NICKEL | 0.00 | 0.04 | 3.20 | | 3.25 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 65,266.48 | | | 65,266.48 |
| PHENANTHRENE | 0.01 | 7,946.90 | | 0.00 | 7,946.91 |
| PHENOL | 0.02 | | | 0.03 | 0.05 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 162.51 | | 0.00 | 162.51 |
| STYRENE | 888.59 | | 19,817.38 | 0.05 | 20,706.03 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 19.83 | 77,827.07 | | | 77,846.90 |
| TOLUENE | 56.21 | 91,627.43 | 225,015.59 | 6,211.35 | 322,910.58 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | | 52,384.55 | | | 52,384.55 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 1,051.35 | | | 1,051.35 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 570.98 | 63,908.86 | 3,876.27 | 68,356.12 |
| XYLENE,O | | 4,637.55 | 35,041.68 | 1,896.48 | 41,575.72 |
| XYLENE,P | | 570.98 | | | 570.98 |
| XYLENES ISO | 17.88 | 50,409.82 | 127,336.04 | 0.56 | 177,764.30 |

# Michigan - Van Buren Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 129.00 | | | 129.00 |
| ACENAPHTHYL | | 1,460.00 | | | 1,460.00 |
| ACETALDEHYDE | | | 16,626.28 | 4,713.30 | 21,339.58 |
| ACROLEIN | | | 2,362.75 | 0.18 | 2,362.93 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | | 171.49 | | 0.00 | 171.49 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.10 | 0.01 | 0.14 | | 0.25 |
| ATRAZINE | | 32,952.86 | | | 32,952.86 |
| BENZ(A)ANTHR | 0.00 | 514.48 | | 0.00 | 514.48 |
| BENZ(GHI)PE | | 42.87 | | 0.00 | 42.87 |
| BENZENE | 27.02 | 50,938.61 | 95,673.96 | 2,574.25 | 149,213.85 |
| BENZO(A)PYRE | 0.00 | 85.75 | | 0.00 | 85.75 |
| BENZO(B)FLUO | | 85.75 | | 0.00 | 85.75 |
| BENZO(K)FLUO | | 42.87 | | 0.00 | 42.87 |
| BERYLLIUM | 0.06 | 0.00 | | | 0.06 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 12,367.00 | 0.30 | 12,367.30 |
| CADMIUM | 0.25 | 0.99 | | | 1.25 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 74.66 | | | 74.66 |
| CHROMIUM | 1.32 | 0.03 | 3.12 | | 4.47 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | 0.00 | 214.00 | | 0.00 | 214.00 |
| COBALT | | | | | 0.00 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 0.16 | | 507.76 | | 507.92 |
| DIBENZAHAN | | 42.87 | | 0.00 | 42.87 |
| DIBROMOET,12 | | 3.58 | | | 3.58 |
| DIBUTYL PHTH | | 2,378.79 | | | 2,378.79 |
| DICHLORETH12 | | 37.05 | | | 37.05 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | 0.12 | 6,586.04 | 41,391.98 | 985.51 | 48,963.65 |
| ETHYLENE OXI | | 1,138.55 | | | 1,138.55 |
| FLUORANTHENE | 0.01 | 257.24 | | 0.00 | 257.25 |
| FLUORENE | | 300.11 | | | 300.11 |
| FORMALDEHYDE | 10.41 | 95.51 | 43,945.36 | 13,945.77 | 57,997.04 |
| GLYCOL ETHRS | | 3,050.03 | | | 3,050.03 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 85.75 | | 0.00 | 85.75 |
| LEAD | 0.20 | | 171.60 | | 171.80 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 10.32 | 4.72 | 5.50 | | 20.54 |
| MERCURY | 0.07 | 0.66 | 3.60 | | 4.32 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 21,918.72 | | | 21,918.72 |
| NAPHTHALENE | 0.56 | 10,306.49 | 6,100.02 | 0.00 | 16,407.07 |
| NICKEL | 0.42 | 0.06 | 4.01 | | 4.49 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | | | | | 0.0000 |
| PCDF | | | | | 0.0000 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 85,007.83 | | | 85,007.83 |
| PHENANTHRENE | | 10,482.48 | | 0.00 | 10,482.48 |
| PHENOL | | | | 0.06 | 0.06 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | | 214.37 | | 0.00 | 214.37 |
| STYRENE | | | 24,879.92 | 0.09 | 24,880.01 |
| TCDD,2378 | | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | 26.01 | 101,263.94 | | | 101,289.95 |
| TOLUENE | 543.04 | 133,923.42 | 282,505.93 | 4,383.96 | 421,356.35 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 24,643.85 | 68,235.96 | | | 92,879.81 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 596.66 | | | 596.66 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 743.76 | 80,237.48 | 2,735.18 | 83,716.42 |
| XYLENE,O | | 6,144.30 | 43,994.62 | 1,338.22 | 51,477.14 |
| XYLENE,P | | 743.76 | | | 743.76 |
| XYLENES ISO | 22.27 | 68,540.29 | 159,869.66 | 1.03 | 228,433.26 |

# Michigan - Washtenaw Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | | 58.50 | | | 58.50 |
| ACENAPHTHYL | | 663.00 | | | 663.00 |
| ACETALDEHYDE | 10.96 | | 55,738.73 | 23,424.69 | 79,174.37 |
| ACROLEIN | | | 8,119.03 | 16.17 | 8,135.21 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | 474.46 | | | | 474.46 |
| ANTHRACENE | | 78.05 | | 0.00 | 78.05 |
| ANTIMONY | 2.03 | | | | 2.03 |
| ARSENIC | 6.61 | 0.02 | 0.47 | | 7.09 |
| ATRAZINE | | 45,349.26 | | | 45,349.26 |
| BENZ(A)ANTHR | 2.08 | 234.15 | | 0.00 | 236.23 |
| BENZ(GHI)PE | | 19.51 | | 0.00 | 19.51 |
| BENZENE | 170.09 | 73,573.65 | 370,064.07 | 8,029.11 | 451,836.91 |
| BENZO(A)PYRE | | 39.02 | | 0.00 | 39.02 |
| BENZO(B)FLUO | | 39.02 | | 0.00 | 39.02 |
| BENZO(K)FLUO | | 19.51 | | 0.00 | 19.51 |
| BERYLLIUM | 0.33 | 0.00 | | | 0.33 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 47,834.61 | 13.84 | 47,848.45 |
| CADMIUM | 30.31 | 0.46 | | | 30.77 |
| CARBON TETRA | 0.19 | 0.00 | | | 0.19 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | 0.57 | 296.59 | | | 297.16 |
| CHROMIUM | 31.93 | 0.03 | 8.34 | | 40.30 |
| CHROMIUM VI | 0.00 | | | | 0.00 |
| CHRYSENE | | 97.60 | | 0.00 | 97.60 |
| COBALT | 1.22 | | | | 1.22 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 101.89 | | 1,998.07 | | 2,099.96 |
| DIBENZAHAN | | 19.51 | | 0.00 | 19.51 |
| DIBROMOET,12 | 0.00 | 9.34 | | | 9.34 |
| DIBUTYL PHTH | 0.00 | 9,098.00 | | | 9,098.00 |
| DICHLORETH12 | 0.06 | 97.48 | | | 97.54 |
| DIEYLHEX PHT | 18.03 | | | | 18.03 |
| DIOCTYL PHTH | 18.03 | | | | 18.03 |
| ETHYLBENZENE | 15.18 | 27,243.38 | 157,068.89 | 3,069.84 | 187,397.29 |
| ETHYLENE OXI | 863.25 | 4,521.70 | | | 5,384.95 |
| FLUORANTHENE | 0.84 | 117.07 | | 0.00 | 117.91 |
| FLUORENE | | 136.59 | | | 136.59 |
| FORMALDEHYDE | 245.54 | 379.45 | 144,619.12 | 69,318.00 | 214,562.11 |
| GLYCOL ETHRS | | 12,116.86 | | | 12,116.86 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | | 39.02 | | 0.00 | 39.02 |
| LEAD | 236.35 | | 410.59 | | 646.94 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 69.72 | 2.15 | 15.09 | | 86.96 |
| MERCURY | 4.76 | 1.82 | 7.63 | | 14.21 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 3,648.56 | 86,540.15 | | | 90,188.71 |
| NAPHTHALENE | 174.99 | 25,085.98 | 23,469.12 | 0.23 | 48,730.32 |
| NICKEL | 91.63 | 0.04 | 10.36 | | 102.03 |
| PARATHION | | | | | 0.00 |
| PCBS | 0.46 | | | | 0.46 |
| PCDD | 0.0161 | | | | 0.0161 |
| PCDF | 0.0721 | | | | 0.0721 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 7.59 | 339,591.43 | | | 339,599.02 |
| PHENANTHRENE | 0.00 | 4,770.79 | | 0.01 | 4,770.80 |
| PHENOL | 426.33 | | | 1.94 | 428.27 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.00 | 97.56 | | 0.00 | 97.56 |
| STYRENE | | | 85,890.88 | 3.17 | 85,894.05 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | 0.0115 | | | | 0.0115 |
| TCE,111 | 57,019.94 | 399,375.51 | | | 456,395.45 |
| TOLUENE | 11,238.81 | 556,937.97 | 1,079,247.36 | 13,656.45 | 1,661,080.59 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 57,516.53 | 268,322.39 | | | 325,838.92 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 650.17 | | | 650.17 |
| VINYL CHLOR | 123.36 | | | | 123.36 |
| XYLENE,M | | 2,924.64 | 309,530.32 | 8,514.48 | 320,969.44 |
| XYLENE,O | | 22,473.12 | 167,506.59 | 4,167.23 | 194,146.94 |
| XYLENE,P | | 2,924.64 | | | 2,924.64 |
| XYLENES ISO | 816.06 | 283,115.90 | 609,899.62 | 9.76 | 893,841.34 |

# Michigan - Wayne Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 0.27 | 65.20 | | | 65.47 |
| ACENAPHTHYL | 0.02 | 739.00 | | | 739.02 |
| ACETALDEHYDE | | | 388,481.92 | 65,220.83 | 453,702.75 |
| ACROLEIN | | | 57,426.43 | 102.14 | 57,528.57 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | 411.75 | | | | 411.75 |
| ANTHRACENE | 0.03 | 86.94 | | 0.00 | 86.97 |
| ANTIMONY | 5.95 | | | | 5.95 |
| ARSENIC | 69.07 | 0.14 | 2.87 | | 72.08 |
| ATRAZINE | | 3,689.38 | | | 3,689.38 |
| BENZ(A)ANTHR | 239.66 | 260.82 | | 0.00 | 500.48 |
| BENZ(GHI)PE | 0.00 | 21.73 | | 0.00 | 21.73 |
| BENZENE | 4,179.68 | 234,651.72 | 2,787,223.94 | 30,610.28 | 3,056,665.62 |
| BENZO(A)PYRE | 4,791.37 | 43.47 | | 0.00 | 4,834.84 |
| BENZO(B)FLUO | 0.01 | 43.47 | | 0.00 | 43.48 |
| BENZO(K)FLUO | | 21.73 | | 0.00 | 21.73 |
| BERYLLIUM | 3.44 | 0.01 | | | 3.45 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 360,276.32 | 85.92 | 360,362.24 |
| CADMIUM | 26.33 | 0.55 | | | 26.88 |
| CARBON TETRA | 0.52 | 0.00 | | | 0.52 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | 0.83 | 2,109.27 | | | 2,110.10 |
| CHROMIUM | 902.22 | 0.15 | 51.61 | | 953.98 |
| CHROMIUM VI | 0.28 | | | | 0.28 |
| CHRYSENE | 324.54 | 109.00 | | 0.00 | 433.54 |
| COBALT | 6.69 | | | | 6.69 |
| COKE OVEN GS | 343,173.85 | | | | 343,173.85 |
| COPPER | 1,134.18 | | 12,999.88 | | 14,134.06 |
| DIBENZAHAN | 0.02 | 21.73 | | 0.00 | 21.75 |
| DIBROMOET,12 | 0.04 | 17.30 | | | 17.34 |
| DIBUTYL PHTH | | 61,821.07 | | | 61,821.07 |
| DICHLORETH12 | 5.79 | 190.71 | | | 196.50 |
| DIEYLHEX PHT | 15.65 | | | | 15.65 |
| DIOCTYL PHTH | 15.65 | | | | 15.65 |
| ETHYLBENZENE | 25.93 | 191,799.40 | 1,175,513.54 | 11,692.89 | 1,379,031.75 |
| ETHYLENE OXI | | 32,145.54 | | | 32,145.54 |
| FLUORANTHENE | 1,191.99 | 130.41 | | 0.01 | 1,322.41 |
| FLUORENE | 0.05 | 152.14 | | | 152.19 |
| FORMALDEHYDE | 3,168.41 | 2,698.51 | 996,542.47 | 193,041.28 | 1,195,450.67 |
| GLYCOL ETHRS | | 86,169.87 | | | 86,169.87 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.02 | 43.47 | | 0.00 | 43.49 |
| LEAD | 12,664.12 | | 2,328.22 | | 14,992.34 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 21,095.42 | 2.39 | 95.43 | | 21,193.24 |
| MERCURY | 201.20 | 15.20 | 38.01 | | 254.41 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | 152,705.54 | 621,481.61 | | | 774,187.15 |
| NAPHTHALENE | 320.42 | 146,895.60 | 176,488.62 | 1.75 | 323,706.39 |
| NICKEL | 243.23 | 0.20 | 62.68 | | 306.11 |
| PARATHION | | | | | 0.00 |
| PCBS | 0.69 | | | | 0.69 |
| PCDD | 0.0140 | | | | 0.0140 |
| PCDF | 0.0924 | | | | 0.0924 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | 18,695.16 | 1,734,846.80 | | | 1,753,541.96 |
| PHENANTHRENE | 0.46 | 5,314.13 | | 0.04 | 5,314.63 |
| PHENOL | 502.58 | | | 11.84 | 514.42 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 0.05 | 108.67 | | 0.01 | 108.73 |
| STYRENE | 512.47 | | 623,394.35 | 19.11 | 623,925.94 |
| TCDD,2378 | 0.0007 | | | | 0.0007 |
| TCDF,2378 | 0.0132 | | | | 0.0132 |
| TCE,111 | 75,828.21 | 2,873,052.81 | | | 2,948,881.02 |
| TOLUENE | 4,338.49 | 3,686,349.18 | 8,097,770.20 | 52,012.80 | 11,840,470.66 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 52,742.21 | 1,939,289.89 | | | 1,992,032.10 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 152.99 | | | 152.99 |
| VINYL CHLOR | 107.06 | | | | 107.06 |
| XYLENE,M | 27.71 | 21,137.92 | 2,329,494.09 | 32,422.56 | 2,383,082.28 |
| XYLENE,O | 22.34 | 167,995.16 | 1,255,791.75 | 15,872.04 | 1,439,681.29 |
| XYLENE,P | 2.57 | 21,137.92 | | | 21,140.49 |
| XYLENES ISO | 771,008.37 | 1,875,754.55 | 4,573,072.90 | 46.13 | 7,219,881.95 |

# Michigan - Wexford Emissions (lb/yr)

| | Point Sources | Area Sources | Mobile Sources | Nonroad Sources | Total |
|---|---|---|---|---|---|
| ACENAPHTHEN | 1.62 | 88.20 | | | 89.82 |
| ACENAPHTHYL | 20.41 | 999.00 | | | 1,019.41 |
| ACETALDEHYDE | 1,390.36 | | 4,555.69 | 2,635.83 | 8,581.88 |
| ACROLEIN | 1.85 | | 648.71 | 0.14 | 650.71 |
| ACRYLAMIDE | | | | | 0.00 |
| ACRYLONITRIL | | | | | 0.00 |
| ANTHRACENE | 17.63 | 117.58 | | 0.00 | 135.21 |
| ANTIMONY | | | | | 0.00 |
| ARSENIC | 0.80 | 0.00 | 0.04 | | 0.84 |
| ATRAZINE | | 1,589.28 | | | 1,589.28 |
| BENZ(A)ANTHR | 0.83 | 352.74 | | 0.00 | 353.57 |
| BENZ(GHI)PE | 0.01 | 29.40 | | 0.00 | 29.41 |
| BENZENE | 2,739.89 | 34,701.26 | 26,534.81 | 4,580.27 | 68,556.23 |
| BENZO(A)PYRE | 0.00 | 58.79 | | 0.00 | 58.79 |
| BENZO(B)FLUO | 0.01 | 58.79 | | 0.00 | 58.80 |
| BENZO(K)FLUO | | 29.40 | | 0.00 | 29.40 |
| BERYLLIUM | 40.00 | 0.00 | | | 40.00 |
| BIS(2-CLETH) | | | | | 0.00 |
| BUTADIENE,13 | | | 3,429.94 | 0.23 | 3,430.17 |
| CADMIUM | 0.10 | 0.68 | | | 0.78 |
| CARBON TETRA | | 0.00 | | | 0.00 |
| CHLORDANE | | | | | 0.00 |
| CHLOROFORM | | 28.89 | | | 28.89 |
| CHROMIUM | 0.74 | 0.01 | 0.84 | | 1.59 |
| CHROMIUM VI | 0.26 | | | | 0.26 |
| CHRYSENE | 19.93 | 147.00 | | 0.00 | 166.93 |
| COBALT | 0.74 | | | | 0.74 |
| COKE OVEN GS | | | | | 0.00 |
| COPPER | 20.65 | | 133.29 | | 153.94 |
| DIBENZAHAN | | 29.40 | | 0.00 | 29.40 |
| DIBROMOET,12 | | 3.23 | | | 3.23 |
| DIBUTYL PHTH | | 908.37 | | | 908.37 |
| DICHLORETH12 | | 33.29 | | | 33.29 |
| DIEYLHEX PHT | | | | | 0.00 |
| DIOCTYL PHTH | | | | | 0.00 |
| ETHYLBENZENE | | 2,958.00 | 11,462.94 | 1,753.55 | 16,174.49 |
| ETHYLENE OXI | | 440.68 | | | 440.68 |
| FLUORANTHENE | 41.71 | 176.37 | | 0.00 | 218.08 |
| FLUORENE | 4.45 | 205.77 | | | 210.22 |
| FORMALDEHYDE | 5,131.69 | 36.96 | 12,023.74 | 7,798.98 | 24,991.37 |
| GLYCOL ETHRS | | 1,180.22 | | | 1,180.22 |
| HEPTACHLOR | | | | | 0.00 |
| HEXCHLORETH | | | | | 0.00 |
| HEXCL-13-BUT | | | | | 0.00 |
| HEXCLBENZENE | | | | | 0.00 |
| HYDRAZINE | | | | | 0.00 |
| INDN(123CDPY | 0.16 | 58.79 | | 0.00 | 58.95 |
| LEAD | 898.07 | | 45.93 | | 944.00 |
| LEAD,ALK | | | | | 0.00 |
| MANGANESE | 4,079.16 | 3.23 | 1.47 | | 4,083.86 |
| MERCURY | 3.01 | 0.32 | 0.96 | | 4.29 |
| METHENE(B)4- | | | | | 0.00 |
| METHOXYCHLOR | | | | | 0.00 |
| METHYLENE CL | | 8,413.80 | | | 8,413.80 |
| NAPHTHALENE | 1,067.24 | 5,985.67 | 1,691.14 | 0.00 | 8,744.06 |
| NICKEL | 3.19 | 0.03 | 1.07 | | 4.30 |
| PARATHION | | | | | 0.00 |
| PCBS | | | | | 0.00 |
| PCDD | 0.0056 | | | | 0.0056 |
| PCDF | 0.0246 | | | | 0.0246 |
| PCP | | | | | 0.00 |
| PENTCLNITBEN | | | | | 0.00 |
| PERC | | 49,335.03 | | | 49,335.03 |
| PHENANTHRENE | 26.79 | 7,187.11 | | 0.00 | 7,213.90 |
| PHENOL | 180.78 | | | 0.04 | 180.82 |
| PHOSGENE | | | | | 0.00 |
| PYRENE | 7.74 | 146.98 | | 0.00 | 154.72 |
| STYRENE | | | 6,843.99 | 0.07 | 6,844.06 |
| TCDD,2378 | 0.0000 | | | | 0.0000 |
| TCDF,2378 | | | | | 0.0000 |
| TCE,111 | | 38,816.35 | | | 38,816.35 |
| TOLUENE | | 81,158.74 | 78,278.37 | 7,799.85 | 167,236.96 |
| TOLUENE24DII | | | | | 0.00 |
| TRICHLORETHY | 12,760.00 | 26,055.85 | | | 38,815.85 |
| TRICLPHN,245 | | | | | 0.00 |
| TRICLPHN,246 | | | | | 0.00 |
| TRIFLURALIN | | 39.61 | | | 39.61 |
| VINYL CHLOR | | | | | 0.00 |
| XYLENE,M | | 284.00 | 22,249.11 | 4,867.49 | 27,400.60 |
| XYLENE,O | | 5,273.20 | 12,187.40 | 2,381.44 | 19,842.04 |
| XYLENE,P | | 284.00 | | | 284.00 |
| XYLENES ISO | | 37,647.76 | 44,292.15 | 0.80 | 81,940.71 |

# Michigan Pollutant Codes

| Code | Pollutant | CAS Number |
|---|---|---|
| ACENAPHTHEN | Acenaphthene | 83-32-9 |
| ACENAPHTHYL | Acenaphthylene | 208-96-8 |
| ACETALDEHYDE | Acetaldehyde | 75-07-0 |
| ACROLEIN | Acrolein | 107-02-8 |
| ACRYLAMIDE | Acrylamide | 79-06-1 |
| ACRYLONITRIL | Acrylonitrile | 107-13-1 |
| ANTHRACENE | Anthracene | 120-12-7 |
| ANTIMONY | Antimony | 7440-36-0 |
| ARSENIC | Arsenic | 7440-38-2 |
| ATRAZINE | Atrazine | 1912-24-9 |
| BENZ(A)ANTHR | Benz(a)anthracene | 56-55-3 |
| BENZ(GHI)PE | Benzo(g,h,i)perylene | 191-24-2 |
| BENZENE | Benzene | 71-43-2 |
| BENZO(A)PYRE | Benzo(a)pyrene | 50-32-8 |
| BENZO(B)FLUO | Benzo(b)fluoranthene | 205-99-2 |
| BENZO(K)FLUO | Benzo(k)fluoranthene | 207-08-9 |
| BERYLLIUM | Beryllium | 7440-41-7 |
| BUTADIENE,13 | 1,3-Butadiene | 106-99-0 |
| CADMIUM | Cadmium | 7440-43-9 |
| CARBON TETRA | Carbon Tetrachloride | 56-23-5 |
| CHLORDANE | Chlordane | 57-74-9 |
| CHLOROFORM | Chloroform | 67-66-3 |
| CHROMIUM | Chromium | 7440-47-3 |
| CHROMIUM VI | Chromium VI | 18540-29-9 |
| CHRYSENE | Chrysene | 218-01-9 |
| COBALT | Cobalt | 7440-48-4 |
| COKE OVEN GS | Coke Oven gas | |
| COPPER | Copper | 7440-50-8 |
| DIBENZAHAN | Dibenzo(a,h)anthracene | 53-70-3 |
| DIBROMOET,12 | 1,2-Dibromoethane | 106-93-4 |
| DIBUTYL PHTH | Dibutyl Phthalate | 84-74-2 |
| DICHLORETH12 | 1,2-Dichloroethane | 107-06-2 |
| DIEYLHEX PHT | Diethylhexyl Phthalate | 117-81-7 |
| DIOCTYL PHTH | Di-n-octyl Phthalate | 117-84-0 |
| ETHYLBENZENE | Ethylbenzene | 100-41-4 |
| ETHYLENE OXI | Ethylene Oxide | 75-21-8 |
| FLUORANTHENE | Fluoranthene | 206-44-0 |
| FLUORENE | Fluorene | 86-73-7 |
| FORMALDEHYDE | Formaldehyde | 50-00-0 |
| GLYCOL ETHRS | Glycol Ethers | 52286-19-8 |
| HEPTACHLOR | Heptachlor | 76-44-8 |
| HEXCHLORETH | Hexachloroethane | 67-72-1 |
| HEXCL-13-BUT | Hexachlorobutadiene | 87-68-3 |
| HEXCLBENZENE | Hexachlorobenzene | 118-74-1 |
| INDN(123CDPY | Indeno(1,2,3-c,d)pyrene | 193-39-5 |
| LEAD | Lead | 7439-92-1 |
| MANGANESE | Manganese | 7439-96-5 |
| MERCURY | Mercury | 7439-97-6 |
| METHENE(B)4- | Methylene(b)4-phenylisocyanate | 101-68-8 |
| METHYLENE CL | Methylene Chloride | 75-09-2 |
| NAPHTHALENE | Naphthalene | 91-20-3 |
| NICKEL | Nickel | 7440-02-0 |
| PARATHION | Parathion | 56-38-2 |
| PCBS | PCBs | 1336-36-3 |
| PCDD | Polychlorinated dibenzodioxins | |
| PCDF | Polychlorinated dibenzofurans | |
| PCP | Pentachlorophenol | 87-86-5 |
| PERC | Perchloroethylene | 127-18-4 |
| PHENANTHRENE | Phenanthrene | 85-01-8 |
| PHENOL | Phenol | 108-95-2 |
| PHOSGENE | Phosgene | 75-44-5 |
| PYRENE | Pyrene | 129-00-0 |
| STYRENE | Styrene | 100-42-5 |
| TCDD,2378 | 2,3,7,8-Tetrachlorodibenzodioxin | 1746-01-6 |
| TCDF,2378 | 2,3,7,8-Tetrachlorodibenzofuran | 51207-31-9 |
| TCE,111 | 1,1,1-Trichloroethane | 71-55-6 |
| TOLUENE | Toluene | 108-88-3 |
| TOLUENE24DII | 2,4-Toluene diisocyanate | 584-84-9 |
| TRICHLORETHY | Trichloroethylene | 79-01-6 |
| TRICLPHN,245 | 2,4,5-Trichlorophenol | 95-95-4 |
| TRICLPHN,246 | 2,4,6-Trichlorophenol | 88-06-2 |
| TRIFULURALIN | Trifluralin | 1582-09-8 |
| VINYL CHLOR | Vinyl Chloride | 75-01-4 |
| XYLENE,M | m-Xylene | 108-38-3 |
| XYLENE,O | o-Xylene | 95-47-6 |
| XYLENE,P | p-Xylene | 106-42-3 |
| XYLENE,ISO | Xylenes Isomers | 1330-20-7 |