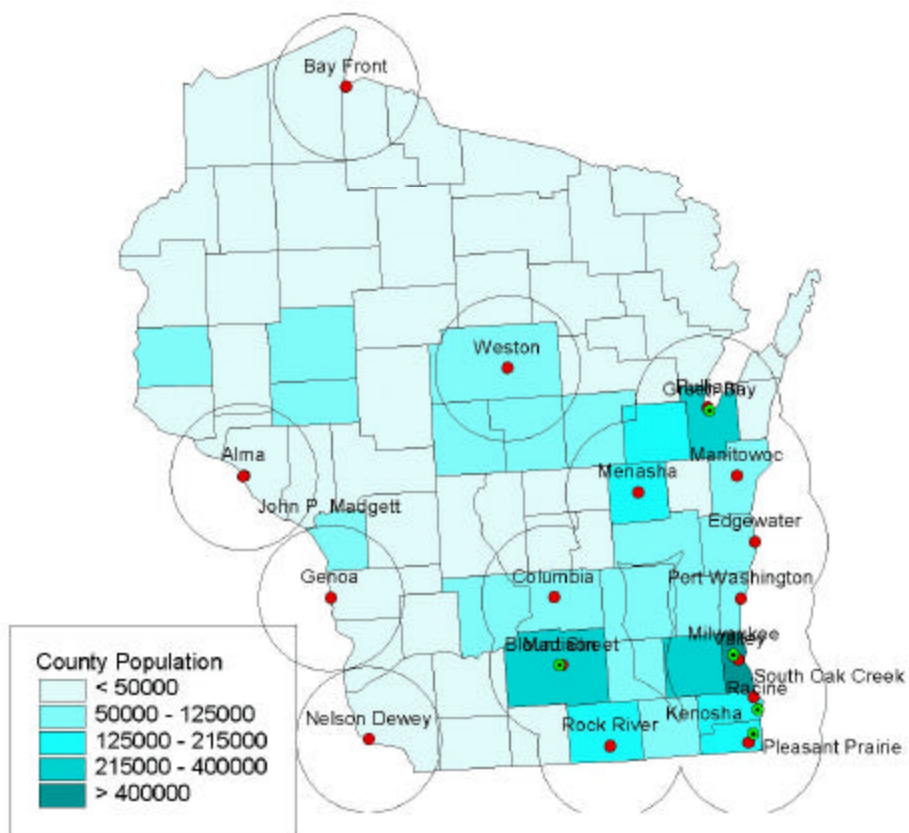


# Wisconsin State Profile of Exposure to Coal-Fired Power Plants



## Map Legend

Circles Represent a Thirty Mile Radius around Power Plants

Major Cities are Shown

## State Profile

Total Number of Power Plants	16
Total Reported Releases	
Air	51,081,291
Land	2,203
Water	12

Total Lake Acres/River Miles under Mercury Fish Advisory	116,920 / 861
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Total Ozone Non-Attainment Areas	8
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## Exposure Within 30 Mile Radius

Total Population	4,411,592
Total Number of Children	1,095,253
Total Number of Children in Poverty	160,310
Total Number of Children With Asthma	60,829

# Environmental Release Profile

Air Releases are for 2000

Land and Water Releases are for 1998

## Wisconsin

Air Releases (tons except where noted)

Land Waste in Tons (on site (off site))

Plant Name	County	Total Reported Air Releases	NOx	SO2	CO2	PM2.5	PM10	VOCs	Acid Gases	Mercury (lbs)	Total Reported Land releases	Arsenic	Chromium	Nickel	Total Reported Water Releases
Alma	Buffalo	914,683	3,419	3,445	906,876	31	46	11	886	23	231	0 (0)	0 (0)	- (-)	0
Bay Front	Ashland	460,010	1,286	786	457,887	11	19	5	27	3	130	0 (0)	0 (0)	- (-)	0
Blount Street	Dane	667,581	1,545	6,924	658,258	311	691	16	148	12	66	0 (0)	0 (0)	- (-)	0
Columbia	Columbia	8,527,103	14,846	28,325	8,483,181	386	566	128	56	372	69	0.2 (0)	0.5 (0)	1 (0)	0
Edgewater	Sheboygan	5,418,165	15,881	17,706	5,384,129	198	292	111	46	150	519	0 (1)	0 (3)	0 (2)	1
Genoa	Vernon	2,016,700	3,595	8,165	2,003,565	65	94	26	1,255	64	11	0 (0)	0 (0)	- (-)	0
John P. Madgett	Buffalo	2,560,666	4,983	5,376	2,549,241	79	114	37	915	123	231	0 (0)	0 (0)	- (-)	0
Manitowoc	Manitowoc	378,671	661	2,869	374,876	45	76	4	185		178	0 (0)	0 (17.7)	- (-)	0
Nelson Dewey	Grant	1,494,649	5,417	14,271	1,474,864	7	11	35	52	113	191	0 (0)	0 (0)	7 (0)	0
Pleasant Prairie	Kenosha	10,109,163	20,510	34,259	10,053,494	379	552	144	204	528		0 (0)	0 (0)	0 (0)	3
Port Washington	Ozaukee	1,899,563	2,857	16,672	1,878,872	57	125	27	1,009	54	6	0 (0)	0 (0)	- (-)	2
Pulliam	Brown	3,028,482	7,984	6,314	3,013,952	95	140	44	48	63	208	0 (0)	0 (0)	- (-)	0
Rock River	Rock	76,682	217	25	76,424	1	1	3	12	6	24	0 (0)	0 (0)	- (-)	2
South Oak Creek	Milwaukee	7,546,219	12,039	24,887	7,506,484	271	597	86	2,127	240	196	3 (0)	9 (0)	5 (0)	3
Valley	Milwaukee	1,753,812	4,083	14,232	1,734,515	22	60	18	904	42	18	0 (0)	0 (6)	0 (2)	1
Weston	Marathon	4,229,141	6,487	11,698	4,210,618	144	209	61	68	160	125	0 (0)	0 (0)	- (-)	0
<b>Total</b>		<b>51,081,291</b>	<b>105,810</b>	<b>195,954</b>	<b>50,767,236</b>	<b>2,104</b>	<b>3,592</b>	<b>757</b>	<b>7,942</b>	<b>1,952</b>	<b>2,203</b>	<b>4 (1)</b>	<b>10 (26)</b>	<b>12 (4)</b>	<b>12</b>

Notes and Sources: All releases are given in tons per year except for mercury which is given in pounds per year. Total air releases is the sum of NOx, SO2, CO2, PM10, VOCs, acid gases, and mercury (PM2.5 is included in PM10). The specific land waste metals were chosen due to their potential to contaminate groundwater. Metals listed include metals and their compounds. The Total Reported Land Releases column does not reflect all solid waste generated from coal-fired power plants. Water releases include total releases from the Toxics Release Inventory (TRI). SO2, NOx, and CO2 emissions come from the EPA's Continuous Emissions Monitoring System data for 2000. Mercury is calculated by applying the mercury emission rates developed in "Mercury Falling" (Environmental Working Group, Clean Air Network, and NRDC, 1999) to the heat input reported in the EPA CEMS data for 2000. PM2.5, PM10, VOCs, and acid gas emission rates were calculated based on the Clean Air Network's data for 1998 emissions. The emission rates were applied to the heat input for 2000. All other data came from the Clean Air Network 1998 data. All calculations were done by MSB Energy Associates for the Clean Air Task Force.

## Wisconsin Exposure Profile for Children Within 30 Miles of a Coal-Fired Power Plant

Data Sources: U.S. Census Population Estimates for 1997; "Estimated Prevalence and Incidence of Lung Disease by Lung Association Territory," American Lung Association, 2001 (data is for 1998).

### Exposure from Plants in State

Plant	State	County	Exposed Population	Children Under 18	Children in Pediatric Poverty	Asthma
Bay Front	WI	Ashland	33,332	8,456	1,683	462
Blount Street	WI	Dane	602,651	133,200	13,807	7,884
Port Washington	WI	Ozaukee	1,345,711	348,199	71,064	18,476
South Oak Creek Valley	WI	Milwaukee	1,592,649	411,436	87,496	21,941
Edgewater	WI	Sheboygan	286,987	72,461	5,472	4,020
Nelson Dewey	WI	Grant	66,651	17,966	2,359	941
Rock River	WI	Rock	346,533	80,848	9,647	4,653
Pulliam	WI	Brown	507,710	127,687	12,525	7,305
Weston	WI	Marathon	282,030	72,879	9,074	4,009
Manitowoc	WI	Manitowoc	538,734	135,741	12,820	7,635
Alma	WI	Buffalo	72,065	18,149	2,545	1,001
Genoa	WI	Vernon	157,796	38,620	5,999	2,130
John P. Madgett	WI	Buffalo	72,065	18,149	2,545	1,001
Pleasant Prairie	WI	Kenosha	594,984	150,575	26,913	8,311
Columbia	WI	Columbia	507,663	111,460	11,838	6,639