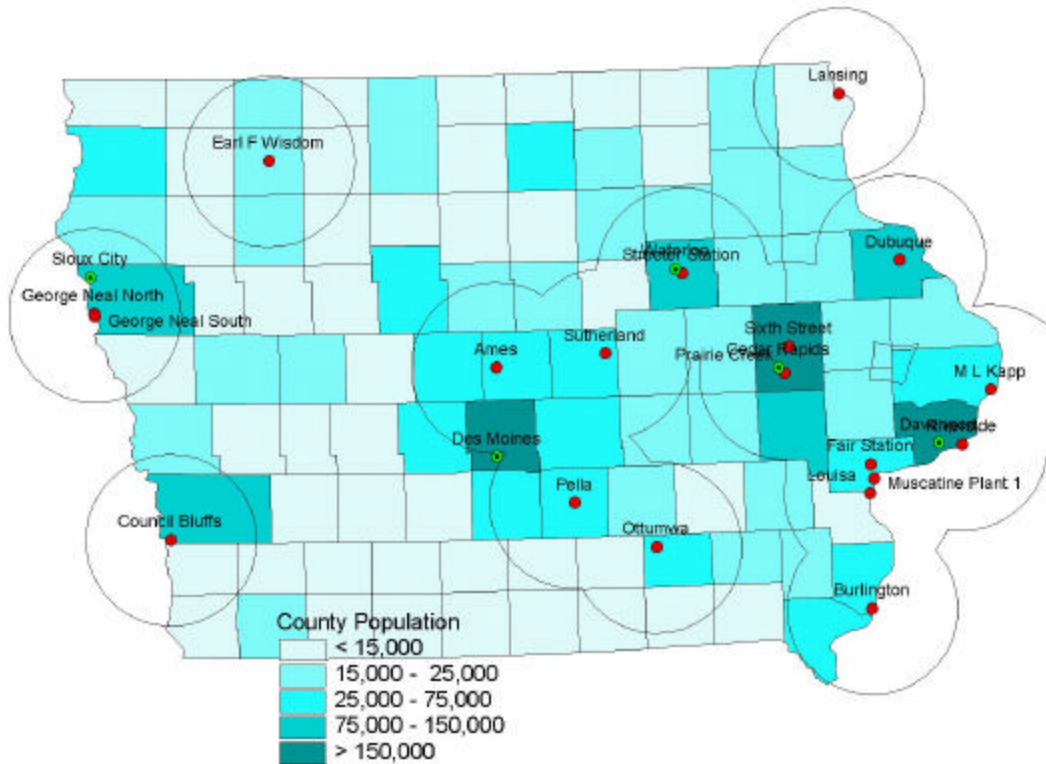


# Iowa State Profile of Exposure to Coal-Fired Power Plants



## Map Legend

Circles Represent a Thirty Mile Radius around Power Plants

Major Cities are Shown

## State Profile

Total Number of Power Plants	19
Total Reported Releases	
Air	40,512,642
Land	70
Water	4
Total Lake Acres/River Miles under Mercury Fish Advisory	0 / 0
Total Ozone Non-Attainment Areas	0
<b>Exposure Within 30 Mile Radius</b>	
Total Population	2,277,722
Total Number of Children	567,140
Total Number of Children in Poverty	81,009
Total Number of Children With Asthma	30,470

# Environmental Release Profile

Air Releases are for 2000

Land and Water Releases are for 1998

## Iowa

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
Ames	Story	520,996	1,045	973	518,761	16	24	7	187	23	17	0 (0)	0 (0)	- (-)	0
Burlington	Des Moines	1,649,142	1,453	6,374	1,641,173	76	110	27	5	61	23	0 (0)	0 (0)	- (-)	0
Council Bluffs	Pottawattamie	6,270,353	13,715	20,837	6,235,037	234	340	100	323	266	782	17 (0)	14 (0)	20 (0)	1
Dubuque	Dubuque	497,169	1,921	3,634	491,444	21	44	6	119	23	4	0 (0)	0 (0)	- (-)	0
Earl F Wisdom	Clay	82,825	269	1,192	81,312	3	8	2	43	5	7	0 (0)	0 (0)	- (-)	0
Fair Station	Muscatine	285,590	551	6,216	278,661	18	40	5	117	14		0 (0)	0 (0)	- (-)	0
George Neal North	Woodbury	6,352,624	16,066	20,689	6,315,540	0	0	0	329	364	589	14 (0)	10 (0)	15 (0)	1
George Neal South	Woodbury	4,717,195	7,727	14,973	4,693,835	140	203	69	388	229	589	14 (0)	10 (0)	15 (0)	1
Lansing	Allamakee	1,985,070	4,363	6,944	1,973,139	77	115	33	476	110	23	0 (0)	0 (0)	- (-)	0
Louisa	Louisa	4,790,301	6,648	14,779	4,768,513	198	288	73	0	293		0 (0)	0 (0)	0 (0)	0
M L Kapp	Clinton	1,459,492	1,326	4,922	1,452,989	71	158	18	78	73	153	0 (0)	0 (0)	- (-)	4
Muscatine Plant 1	Muscatine	1,817,625	4,122	3,157	1,810,091	91	138	31	86	107	63	0 (0)	0 (0)	- (-)	0
Ottumwa	Wapello	5,719,015	9,341	18,415	5,690,687	264	384	97	91	240	57	0 (0.4)	0 (0.9)	0 (0.6)	0
Pella	Marion	173,989	339	538	173,099	9	12	1	0			0 (0)	0 (0)	0 (0)	0
Prairie Creek	Linn	1,406,451	2,262	4,066	1,399,949	83	116	37	21	57	32	0 (0)	0 (0)	- (-)	0
Riverside	Scott	827,531	1,335	2,507	823,509	33	50	14	115	50	73	0 (0)	0 (0)	- (-)	0
Sixth Street	Linn	621,483	1,764	1,829	617,677	25	36	12	165		15	0 (0)	0 (0)	- (-)	0
Streeter Station	Black Hawk	64,754	270	524	62,346	2	6	1	1,606	4		0 (0)	0 (0)	- (-)	0
Sutherland	Marshall	1,271,038	4,117	4,673	1,262,161	21	30	23	34	32	79	0 (0)	0 (0)	0 (26)	0
<b>Total</b>		<b>40,512,642</b>	<b>78,634</b>	<b>137,242</b>	<b>40,289,923</b>	<b>1,382</b>	<b>2,102</b>	<b>556</b>	<b>4,185</b>	<b>1,951</b>	<b>2,506</b>	<b>45 (0)</b>	<b>34 (1)</b>	<b>50 (27)</b>	<b>7</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.

## Iowa 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
Dubuque	IA	Dubuque	144,891	38,854	5,049	2,022
Lansing	IA	Allamakee	43,799	11,475	1,480	590
Sutherland	IA	Marshall	156,015	38,257	4,519	2,007
Council Bluffs	IA	Pottawattamie	124,709	32,808	5,237	1,764
George Neal North	IA	Woodbury	121,264	32,313	5,221	1,757
Burlington	IA	Des Moines	113,332	28,932	4,615	1,498
Ames	IA	Story	459,311	104,766	13,699	5,912
Streeter Station	IA	Black Hawk	245,463	63,555	9,919	3,294
Muscatine Plant 1	IA	Muscatine	276,415	69,719	11,076	3,785
Fair Station	IA	Muscatine	335,116	81,506	12,536	4,444
Ottumwa	IA	Wapello	154,094	38,398	6,675	2,027
Louisa	IA	Louisa	205,507	52,229	8,156	2,835
George Neal South	IA	Woodbury	121,264	32,313	5,221	1,757