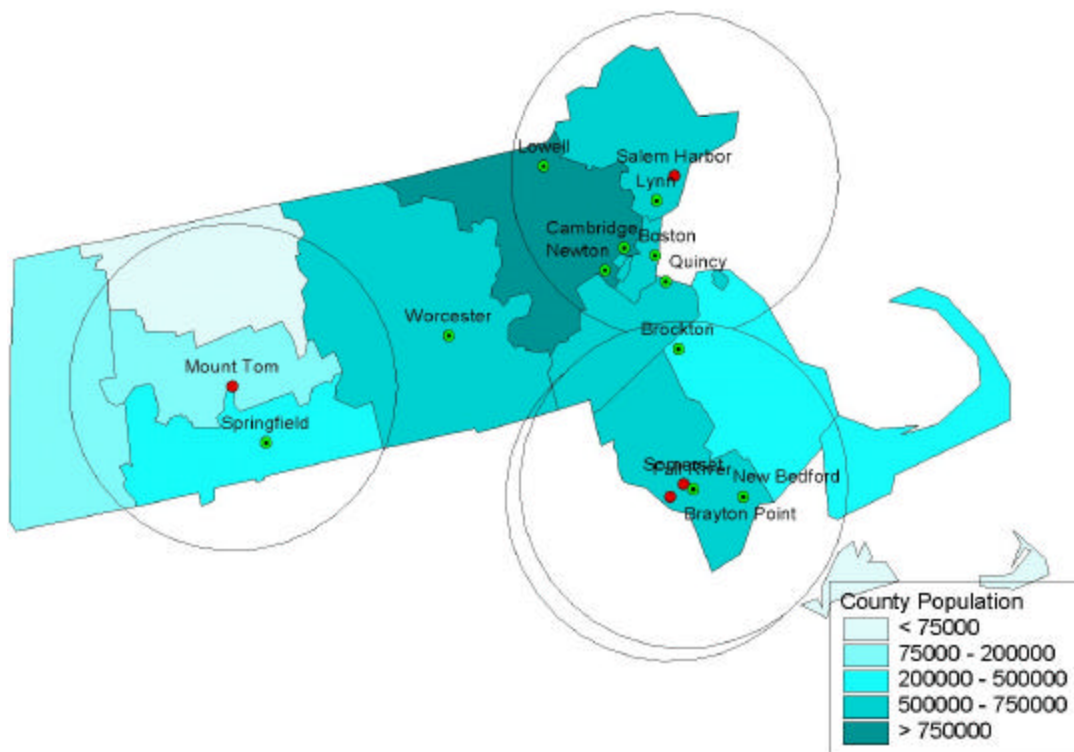


# Massachusetts State Profile of Exposure to Coal-Fired Power Plants



## Map Legend

Circles Represent a Thirty Mile Radius around Power Plants

Major Cities are Shown

## State Profile

Total Number of Power Plants	4
Total Reported Releases	
Air	13,806,340
Land	1,014
Water	2
Total Lake Acres/River Miles under Mercury Fish Advisory	151,173 / 8,229
Total Ozone Non-Attainment Areas	14

## Exposure Within 30 Mile Radius

Total Population	2,116,911
Total Number of Children	499,994
Total Number of Children in Poverty	80,414
Total Number of Children With Asthma	28,266

# Environmental Release Profile

Air Releases are for 2000

Land and Water Releases are for 1998

## Massachusetts

Air Releases (tons except where noted)

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

Plant Name	County	Air Releases (tons except where noted)									Land Waste in Tons (on site (off site))				Total Reported Water Releases
		Total Reported Air Releases	NOx	SO2	CO2	PM2.5	PM10	VOCs	Acid Gases	Mercury (lbs)	Total Reported Land releases	Arsenic	Chromium	Nickel	
Brayton Point	Bristol	7,985,042	13,636	44,586	7,925,715	223	462	79	564	132	55	0 (2)	0 (3)	3 (4)	0
Mount Tom	Hampden	1,296,243	2,296	7,373	1,286,132	43	95	14	332	48	15	0 (0)	0 (0)		0
Salem Harbor	Essex	3,579,520	5,320	20,514	3,553,198	153	216	67	206	36	123	0 (0)	0 (1)	0 (25)	0
Somerset	Bristol	945,534	1,437	5,023	938,689	25	53	11	321	15	25	0 (0)	0 (0)		0
<b>Total</b>		<b>13,806,340</b>	<b>22,689</b>	<b>77,496</b>	<b>13,703,734</b>	<b>444</b>	<b>826</b>	<b>171</b>	<b>1,423</b>	<b>232</b>	<b>218</b>	<b>0 (2)</b>	<b>0 (4)</b>	<b>3 (29)</b>	<b>0</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.

## Massachusetts 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
Mount Tom	MA	Hampden	755,125	181,700	35,538	9,993
Somerset	MA	Bristol	1,168,928	273,967	37,292	15,695
Brayton Point	MA	Bristol	1,038,856	244,316	34,120	13,964
Salem Harbor	MA	Essex	3,198,371	675,630	109,097	38,989