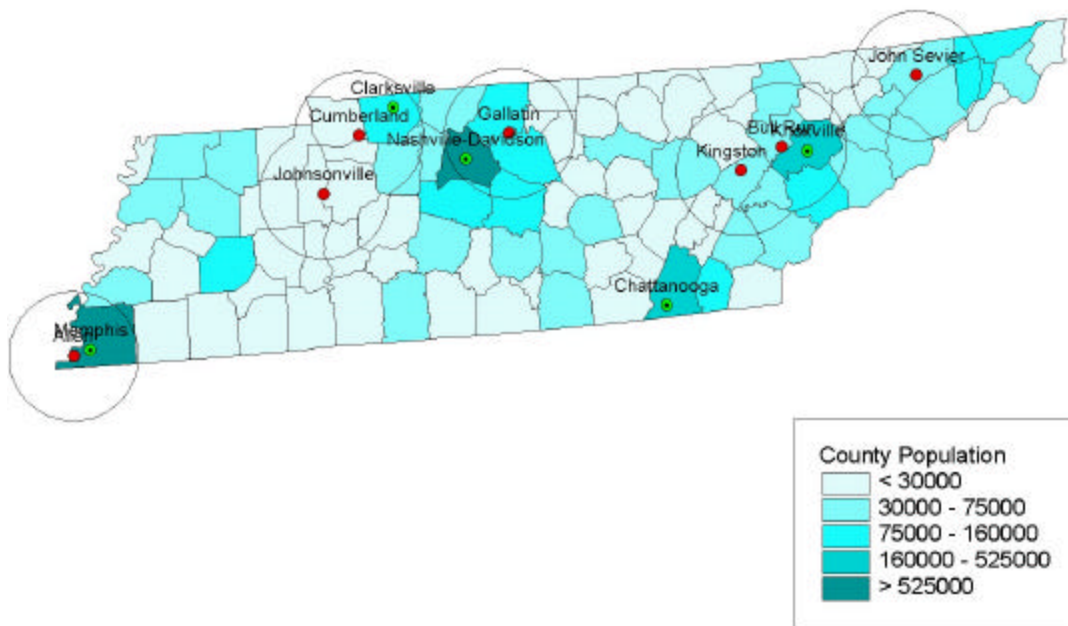


# Tennessee State Profile of Exposure to Coal-Fired Power Plants



## Map Legend

Circles Represent a Thirty Mile Radius around Power Plants

Major Cities are Shown

## State Profile

Total Number of Power Plants	7
Total Reported Releases	
Air	65,294,367
Land	4,552
Water	161
Total Lake Acres/River Miles under Mercury Fish Advisory	0 / 6 XX
Total Ozone Non-Attainment Areas	0

## Exposure Within 30 Mile Radius

Total Population	3,788,561
Total Number of Children	860,535
Total Number of Children in Poverty	214,101
Total Number of Children With Asthma	49,941

# Environmental Release Profile

Air Releases are for 2000

Land and Water Releases are for 1998

## Tennessee

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
Allen	Shelby	5,150,729	18,707	18,862	5,112,502	84	123	338	197	131	412	0 (0)	0 (0.1)	0 (0)	11
Bull Run	Anderson	5,018,159	15,596	36,669	4,963,295	310	625	60	1,913	302	371	5 (9)	16 (14)	15 (14)	13
Cumberland	Stewart	21,445,947	52,099	19,856	21,370,346	895	2,075	256	1,315	599	1,516	43 (0)	78 (34.1)	69 (35)	19
Gallatin	Sumner	7,481,960	10,625	78,310	7,390,037	421	927	199	1,862	459	624	13 (0)	27 (2)	29 (0.5)	17
John Sevier	Hawkins	5,545,282	10,762	55,900	5,468,726	3,469	7,674	79	2,141	199	191	6 (0)	16 (0)	15 (0)	16
Johnsonville	Humphreys	9,788,583	22,648	118,426	9,630,957	9,549	13,343	118	3,092	623	662	25 (0)	48 (0.6)	44 (0.1)	58
Kingston	Roane	10,863,707	25,494	96,950	10,723,952	6,019	13,334	124	3,852	519	776	30 (0)	62 (1)	58 (0.1)	27
<b>Total</b>		<b>65,294,367</b>	<b>155,931</b>	<b>424,973</b>	<b>64,659,815</b>	<b>20,746</b>	<b>38,100</b>	<b>1,176</b>	<b>14,373</b>	<b>2,832</b>	<b>4,552</b>	<b>122 (9)</b>	<b>246 (52)</b>	<b>229 (49)</b>	<b>161</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.

## Tennessee 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
Allen	TN	Shelby	900,301	233,552	72,187	12,990
Bull Run	TN	Anderson	767,379	160,944	38,167	9,412
Cumberland	TN	Stewart	256,119	56,330	11,849	3,697
Gallatin	TN	Sumner	966,768	211,459	41,565	12,805
John Sevier	TN	Hawkins	372,114	79,375	20,159	4,447
Johnsonville	TN	Humphreys	164,762	36,238	8,178	2,093
Kingston	TN	Roane	518,352	109,859	26,389	6,377