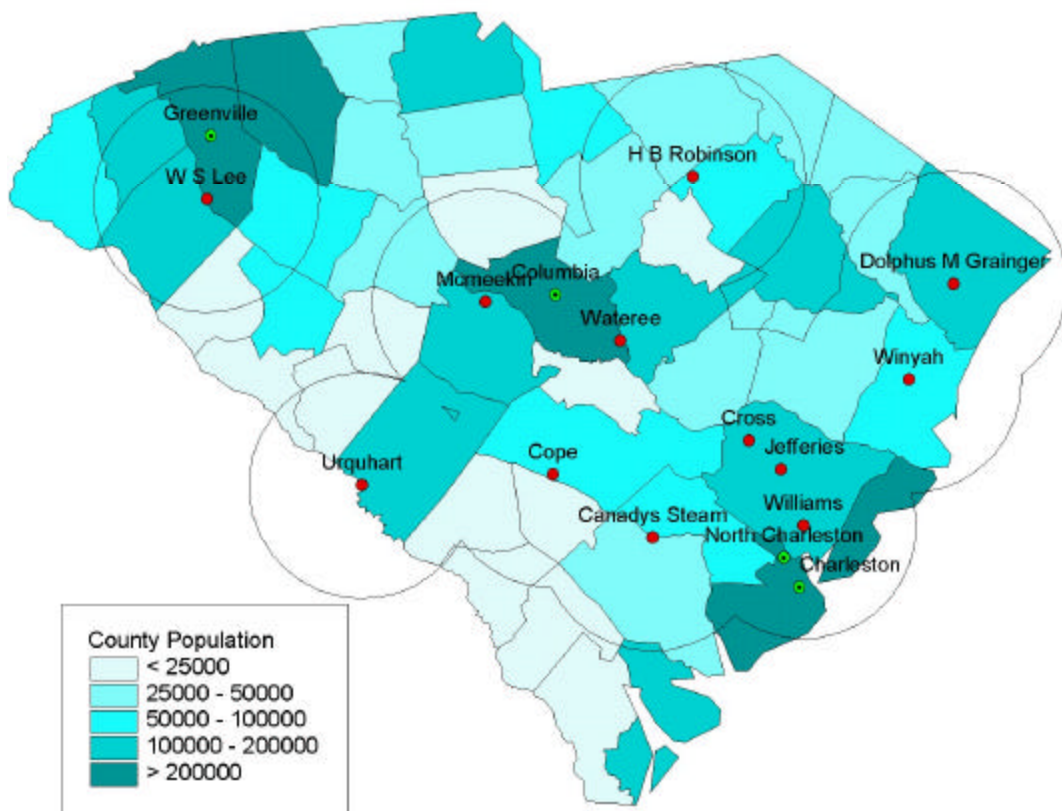


South Carolina State Profile of Exposure to Coal-Fired Power Plants



Map Legend

Circles Represent a Thirty Mile Radius around Power Plants

Major Cities are Shown

State Profile

Total Number of Power Plants	12
Total Reported Releases	
Air	41,015,630
Land	1,215
Water	1
Total Lake Acres/River Miles under Mercury Fish Advisory	574 / 1,550
Total Ozone Non-Attainment Areas	0

Exposure Within 30 Mile Radius

Total Population	3,555,747
Total Number of Children	879,240
Total Number of Children in Poverty	225,941
Total Number of Children With Asthma	48,567

Environmental Release Profile

Air Releases are for 2000

Land and Water Releases are for 1998

South Carolina

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
Canadys Steam	Colleton	2,387,515	4,565	18,667	2,362,177	574	1,344	27	735	94	87	0 (0)	0 (0)	- (-)	0
Cope	Orangeburg	3,049,208	3,887	2,012	3,043,113	52	140	30	27	66	179	0 (0)	16 (0)	15 (0)	0
Cross	Berkeley	8,785,349	15,216	12,453	8,756,646	303	669	94	271	268	362	17 (0)	30 (0)	27 (0)	0
Dolphus M Grainger	Horry	968,093	3,186	8,544	956,023	31	69	9	261	48	20	0 (0)	0 (0)	- (-)	0
H B Robinson	Darlington	1,037,515	3,713	7,894	1,025,274	62	135	11	487	50	55	0 (0)	0 (0)	- (-)	0
Jefferies	Berkeley	2,284,822	4,799	19,334	2,259,941	59	127	27	594	106		0 (0)	0 (0)	0 (0)	0
Mcmeekin	Lexington	1,927,360	3,602	14,156	1,908,812	30	82	19	689	65	47	0 (0)	0 (0)	- (-)	0
Urquhart	Aiken	1,525,439	3,197	13,990	1,506,943	352	803	17	489	67	22	0 (0)	0 (0)	- (-)	0
W S Lee	Anderson	1,554,045	3,323	10,271	1,539,976	64	138	16	321	81	42	0 (0)	0 (0)	- (-)	1
Wateree	Richland	4,252,041	9,269	31,184	4,206,893	1,241	2,887	49	1,759	189	265	12 (0)	21 (0.3)	19 (0)	0
Williams	Berkeley	4,735,460	11,050	24,205	4,697,727	721	1,487	48	943	88	10	0 (0)	0 (0)	- (-)	0
Winyah	Georgetown	8,508,784	21,896	37,542	8,447,635	294	649	86	975	230	104	5 (0)	9 (0.2)	8 (0)	0
Total		41,015,630	87,703	200,252	40,711,160	3,784	8,529	434	7,552	1,351	1,193	34 (0)	76 (1)	68 (0)	1

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.

South Carolina 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
Cross	SC	Berkeley	338,900	101,012	27,070	5,334
H B Robinson	SC	Darlington	315,212	83,719	25,656	4,489
W S Lee	SC	Anderson	809,391	182,015	34,508	10,203
Canadys Steam	SC	Colleton	284,196	81,470	23,147	4,302
Mcmeekin	SC	Lexington	616,366	144,991	32,572	8,117
Urquhart	SC	Aiken	185,381	46,704	11,681	2,549
Wateree	SC	Richland	621,989	155,103	43,127	8,435
Williams	SC	Berkeley	509,019	144,790	38,976	7,827
Dolphus M Grainger	SC	Horry	269,099	63,611	21,067	3,616
Jefferies	SC	Berkeley	444,516	129,094	35,093	6,901
Winyah	SC	Georgetown	242,712	60,609	19,714	3,385
Cope	SC	Orangeburg	205,344	55,987	18,676	2,928