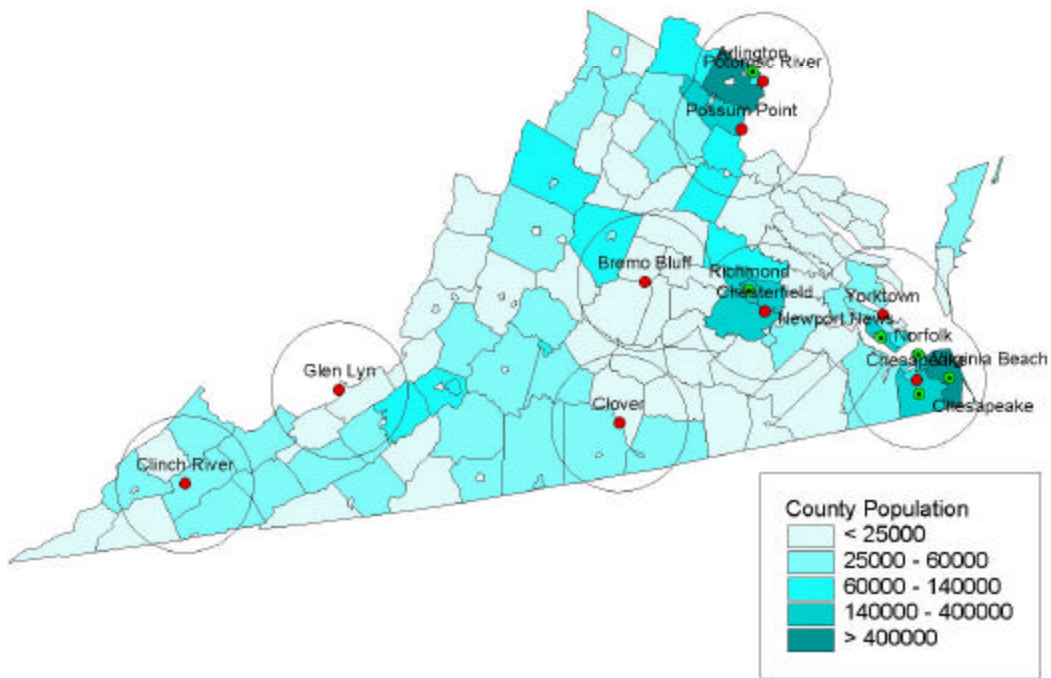


Virginia State Profile of Exposure to Coal-Fired Power Plants



Map Legend

Circles Represent a Thirty Mile Radius around Power Plants

Major Cities are Shown

State Profile

Total Number of Power Plants	9
Total Reported Releases	
Air	39,780,790
Land	1,558
Water	138
Total Lake Acres/River Miles under Mercury Fish Advisory	0 / 183
Total Ozone Non-Attainment Areas	11

Exposure Within 30 Mile Radius

Total Population	5,578,982
Total Number of Children	1,256,936
Total Number of Children in Poverty	217,553
Total Number of Children With Asthma	73,891

Environmental Release Profile

Air Releases are for 2000

Land and Water Releases are for 1998

Virginia

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 Air Releases	NOx	SO2	CO2	PM2.5	PM10	VOCs	Acid Gases	Mercury (lbs)	Total Reported Land releases	Arsenic	Chromium	Nickel	Total Reported Water Releases
Bremo Bluff	Fluvanna	1,812,581	4,655	11,537	1,795,589	115	269	20	511	205	82	0 (0)	7 (0)	- (-)	2
Chesapeake	Chesapeake	4,939,394	10,106	29,309	4,898,185	203	443	52	1,300	191		0 (0)	0 (0)	0 (0)	27
Chesterfield	Chesterfield	9,171,354	16,598	67,519	9,084,139	453	920	96	2,082	388	456	22 (0)	31 (0)	30 (0)	9
Clinch River	Russell	4,794,164	14,863	26,050	4,751,105	298	657	54	1,436	117	127	5 (0.1)	8 (15.1)	8 (6)	0
Clover	Halifax	7,628,811	10,917	1,926	7,615,277	149	404	80	208	187	471	23 (0)	40 (0)	35 (0)	2
Glen Lyn	Giles	2,178,762	5,917	14,646	2,157,487	93	207	22	483	74	154	0 (0)	12 (10)	11 (4)	4
Possum Point	Prince William	2,945,391	5,276	20,570	2,918,368	183	341	60	777	150	150	10 (0)	11 (0)	13 (0)	3
Potomac River	Alexandria	2,700,194	5,694	13,948	2,679,521	93	206	27	798	64	92	0 (0)	0 (0)	- (-)	86
Yorktown	York	3,610,138	7,119	28,708	3,571,960	671	1,250	104	997	92	26	0 (0)	0.8 (0.8)	3 (3)	5
Total		39,780,790	81,145	214,213	39,471,631	2,259	4,696	514	8,591	1,469	1,558	59 (0)	108 (26)	99 (13)	138

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.

Virginia 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
Clinch River	VA	Russell	257,092	62,806	17,385	3,231
Glen Lyn	VA	Giles	189,101	37,542	7,652	2,034
Potomac River	VA	Alexandria	1,647,644	346,929	31,787	21,463
Bremo Bluff	VA	Fluvanna	275,546	55,211	9,973	3,330
Chesterfield	VA	Chesterfield	995,523	222,784	40,490	12,973
Chesapeake	VA	Chesapeake	1,423,982	355,198	77,682	20,233
Possum Point	VA	Prince William	1,795,714	382,757	36,846	23,653
Yorktown	VA	York	1,080,626	266,002	64,124	14,746
Clover	VA	Halifax	137,086	31,380	7,399	1,790