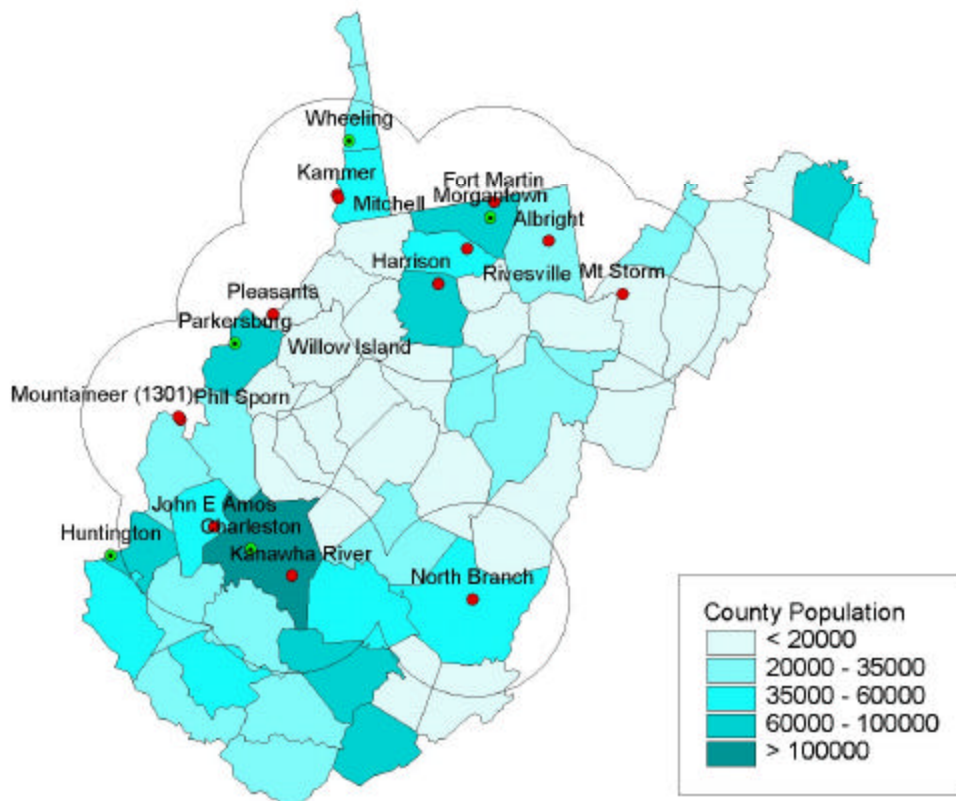


## West Virginia State Profile of Exposure to Coal-Fired Power Plants



### Map Legend

Circles Represent a Thirty Mile Radius around Power Plants

Major Cities are Shown

### State Profile

Total Number of Power Plants	14
Total Reported Releases	
Air	92,265,497
Land	6,550
Water	42
Total Lake Acres/River Miles under Mercury Fish Advisory	0 / 0
Total Ozone Non-Attainment Areas	0

### Exposure Within 30 Mile Radius

Total Population	1,667,879
Total Number of Children	398,632
Total Number of Children in Poverty	111,497
Total Number of Children With Asthma	19,642

# Environmental Release Profile

Air Releases are for 2000

Land and Water Releases are for 1998

## West Virginia

Air Releases (tons except where noted)

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

Plant Name	County	Total Reported Air Releases									Total Reported Land releases				Total Reported Water Releases
		NOx	SO2	CO2	PM2.5	PM10	VOCs	Acid Gases	Mercury (lbs)	Arsenic	Chromium	Nickel			
Albright	Preston	1,916,499	4,666	22,775	1,888,366	93	204	21	467	136	28	0 (0)	0 (0)	- (-)	0
Fort Martin	Monongalia	7,678,074	26,330	90,055	7,558,665	387	854	87	2,083	340	179	2 (0)	7 (0)	8 (0)	1
Harrison	Harrison	14,749,395	33,584	6,330	14,707,658	706	1,556	151	116	411	1,016	55 (0)	65 (0)	47 (0)	1
John E Amos	Putnam	15,434,590	43,970	91,106	15,289,449	836	1,843	177	8,044	721	1,243	18 (32)	31 (120.1)	28 (79)	4
Kammer	Marshall	4,156,939	15,362	42,912	4,096,585	50	111	89	1,880	255	180	12 (0)	14 (6)	9 (3)	22
Kanawha River	Kanawha	2,530,950	7,508	14,785	2,506,972	137	303	28	1,354	113	138	0 (0)	0 (16.5)	0 (13)	0
Mitchell	Marshall	8,822,119	24,735	53,975	8,736,142	525	1,157	107	6,003	350	724	32 (0.1)	55 (10.6)	50 (4)	7
Mountaineer	Mason	7,297,645	17,798	38,350	7,236,602	400	882	88	3,926	306	601	25 (0)	46 (11)	42 (4)	2
Mt Storm	Grant	12,869,814	38,633	113,072	12,713,398	851	1,876	139	2,697	1,257	887	42 (0)	60 (0)	55 (0)	2
Phil Sporn	Mason	6,629,289	19,869	54,166	6,551,700	410	902	80	2,571	544	530	23 (0)	42 (0.4)	39 (0.2)	1
Pleasants	Pleasants	7,643,437	13,224	41,062	7,587,778	390	860	91	423	189	512	48 (0)	27 (0)	23 (0)	1
Rivesville	Marion	713,172	2,686	5,871	704,353	35	76	8	178	35		0 (0)	0 (0)	- (-)	0
Willow Island	Pleasants	1,823,574	9,409	18,343	1,794,882	25	56	32	852	89	512	48 (0)	27 (0)	23 (0)	1
<b>Total</b>		<b>92,265,497</b>	<b>257,774</b>	<b>592,802</b>	<b>91,372,550</b>	<b>4,843</b>	<b>10,681</b>	<b>1,098</b>	<b>30,593</b>	<b>4,746</b>	<b>6,550</b>	<b>304 (32)</b>	<b>373 (165)</b>	<b>323 (102)</b>	<b>42</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.

## West 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
John E Amos	WV	Putnam	420,915	100,606	27,100	4,921
Kanawha River	WV	Kanawha	415,868	102,012	29,749	4,966
Phil Sporn	WV	Mason	163,248	39,764	10,140	2,008
Albright	WV	Preston	209,502	46,541	12,286	2,294
Fort Martin	WV	Monongalia	212,326	47,358	12,567	2,328
Harrison	WV	Harrison	339,928	78,273	22,542	3,862
Rivesville	WV	Marion	290,411	66,221	18,163	3,268
Willow Island	WV	Pleasants	156,556	38,857	10,241	1,886
Kammer	WV	Marshall	137,467	33,148	7,991	1,544
Mitchell	WV	Marshall	137,467	33,148	7,991	1,544
Mt Storm	WV	Grant	113,800	27,506	6,952	1,383
Pleasants	WV	Pleasants	156,556	38,857	10,241	1,886
Mountaineer (1301)	WV	Mason	158,708	38,663	9,790	1,942
North Branch	WV	Grant	120,343	29,606	9,839	1,459