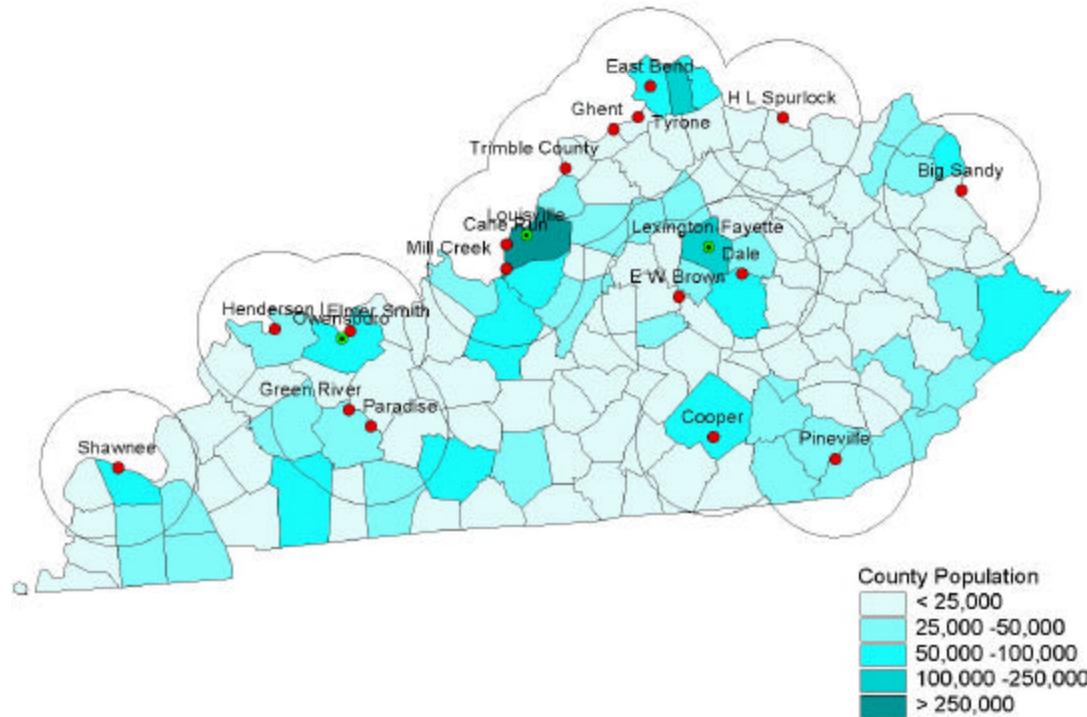


Kentucky State Profile of Exposure to Coal-Fired Power Plants



Map Legend

Circles Represent a Thirty Mile Radius around Power Plants

Major Cities are Shown

State Profile

Total Number of Power Plants	22
Total Reported Releases	
Air	104,420,412
Land	7,008
Water	395
Total Lake Acres/River Miles under Mercury Fish Advisory	0 / 0
Total Ozone Non-Attainment Areas	3

Exposure Within 30 Mile Radius

Total Population	3,331,201
Total Number of Children	811,993
Total Number of Children in Poverty	206,657
Total Number of Children With Asthma	44,158

Environmental Release Profile

Air Releases are for 2000

Land and Water Releases are for 1998

Kentucky

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
		Air Releases	NOx	SO2	CO2	PM2.5	PM10	VOCs	Acid Gases	Mercury (lbs)	Arsenic	Chromium	Nickel		
Big Sandy	Lawrence	6,931,611	18,044	51,810	6,857,955	365	797	82	2,923	411	604	24 (0)	48 (10)	44 (4)	5
Cane Run	Jefferson	3,877,168	7,713	17,439	3,850,852	202	445	46	673	63	311	12 (0)	24 (0)	21 (0)	12
Cooper	Pulaski	1,903,098	3,909	18,102	1,880,038	93	202	21	826	113	142	0 (0)	12 (0)	12 (0)	0
D B Wilson	Ohio	4,133,685	8,717	10,109	4,114,438	147	320	27	74	48	133	0 (0)	0 (0)	23 (0)	0
Dale	Clark	1,035,757	1,811	6,287	1,026,926	59	127	13	592	40	73	0 (0)	0 (0)	- (-)	4
E W Brown	Mercer	5,162,683	9,850	50,380	5,099,558	274	595	69	2,231	210	357	14 (0)	27 (0)	23 (0)	13
East Bend	Boone	4,693,664	8,671	14,850	4,669,205	245	514	52	372	222	287	17 (0)	27 (0)	40 (0)	2
Elmer Smith	Daviess	3,448,483	12,678	6,855	3,428,142	182	402	55	351	121	176	0.1 (7)	0.1 (13.1)	0 (11)	12
Ghent	Carroll	13,857,999	23,870	59,186	13,769,211	666	1,473	152	4,107	380	1,194	46 (0)	85 (0)	80 (0)	52
Green River	Muhlenberg	1,446,308	3,997	23,360	1,418,113	74	146	16	675	60	76	0 (0)	0 (0)	- (-)	0
H L Spurlock	Mason	6,510,641	12,962	38,652	6,456,631	388	722	61	1,614	272	401	17 (0)	32 (0)	30 (0)	0
Henderson I	Henderson	44,561	113	698	43,615	9	15	1	119		370	0.6 (0)	13 (0)	84 (0)	3
HMP&L Station 2	Henderson	2,644,268	6,058	5,902	2,631,933	74	165	18	192	46	370	0.6 (0)	13 (0)	84 (0)	3
K C Coleman	Hancock	3,740,263	7,749	45,197	3,685,792	181	381	24	1,120	169	102	7 (0)	0 (0)	0 (0)	1
Mill Creek	Jefferson	11,126,575	20,456	34,503	11,068,921	603	1,330	134	1,231	344	745	34 (0)	52 (0)	46 (0)	33
Paradise	Muhlenberg	14,807,717	61,701	145,040	14,595,361	228	422	335	4,859	750	338	24 (0)	20 (0)	21 (0)	40
Pineville	Bell	232,138	718	1,449	229,853	37	46	3	69	3		0 (0)	0 (0)	- (-)	0
R A Reid	Henderson	364,341	1,426	7,439	355,358	101	116	3	0	10		0 (0)	0 (0)	0 (0)	0
R D Green	Webster	3,557,449	7,323	3,382	3,546,370	163	348	26	0	56		0 (0)	0 (0)	0 (0)	0
Shawnee	Mccracken	10,700,062	19,675	34,088	10,634,931	4,932	10,924	118	325	264	1,028	0 (0)	13 (0.1)	12 (0)	215
Trimble County	Trimble	3,769,851	7,187	7,583	3,754,089	219	483	44	465	157	301	15 (0)	20 (0)	18 (0)	0
Tyrone	Woodford	432,091	1,364	2,607	427,951	12	26	4	140	8		0 (0)	0 (0)	- (-)	0
Total		104,420,412	245,992	584,918	103,545,243	9,254	19,997	1,303	22,958	3,746	7,008	209 (7)	384 (23)	537 (15)	395

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.

Kentucky 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
Big Sandy	KY	Lawrence	181,945	46,796	16,334	2,396
E W Brown	KY	Mercer	604,539	132,574	29,830	7,497
Ghent	KY	Carroll	233,618	55,488	9,974	3,450
Green River	KY	Muhlenberg	255,936	65,895	16,228	3,445
Pineville	KY	Bell	210,208	56,851	25,629	3,023
Tyrone	KY	Woodford	401,666	100,672	17,977	5,801
Cane Run	KY	Jefferson	898,576	219,062	47,541	11,661
Mill Creek	KY	Jefferson	935,228	229,869	50,408	12,178
Elmer Smith	KY	Daviess	208,600	53,796	12,523	2,829
Paradise	KY	Muhlenberg	191,943	48,270	12,489	2,560
Shawnee	KY	Mccracken	149,276	34,114	7,629	1,811
K C Coleman	KY	Hancock	161,980	42,278	9,727	2,276
HMP&L Station 2	KY	Henderson	241,259	62,744	14,295	3,247
R A Reid	KY	Henderson	240,416	62,526	14,239	3,236
Cooper	KY	Pulaski	239,996	57,966	23,160	3,255
Dale	KY	Clark	586,494	130,796	32,827	7,365
East Bend	KY	Boone	367,694	92,992	16,164	5,337
H L Spurlock	KY	Mason	103,374	25,596	7,321	1,399
Trimble County	KY	Trimble	498,723	118,236	26,236	6,355
R D Green	KY	Webster	240,416	62,526	14,239	3,236
D B Wilson	KY	Ohio	247,833	63,768	15,723	3,343