Amos Plant: Toxics Release Inventory for 2013

Plant: Amos, St. Albans, West Virginia
Contact: Jon Webster Telephone (304) 759-3159
2013 Coal Burn 11,942,942,000 pounds

Amos Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	615	77	16,025	87,230	103,947
Barium	1,015	2,100	183,605	726,235	912,955
Beryllium	32	0	2,775	11,000	13,807
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	1,098	3	42,005	380,232	423,339
Cobalt	497	2	16,805	56,000	73,304
Copper	939	152	46,105	222,000	269,196
Lead	569	6	14,595	72,242	87,412
Manganese	1,300	1,600	101,005	204,000	307,905
Mercury	537	1	150	779	1,467
Nickel	1,540	190	38,605	215,000	255,335
Selenium	4,025	621	5,685	25,046	35,377
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	1,115	0	78,005	270,000	349,120
Zinc	2,645	295	48,005	170,000	220,945
Hydrochloric Acid Aerosol	76,000	(b)	(b)	(b)	76,000
Hydrogen Fluoride	17,900	(b)	(b)	(b)	17,900
Sulfuric Acid Aerosol	490,000	(b)	(b)	(b)	490,000
Ammonia	5,220	680	N/A	N/A	5,900
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.2	0	0	0	0
PACs	5.5	0	0	0	6
Dioxins (grams)	1.8	0	0	0	2
Dioxins (ounces)	0.064	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	605,053	5,727	593,370	2,439,764	3,643,914

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Big Sandy Plant: Toxics Release Inventory for 2013

Plant: Big Sandy, Louisa, Kentucky
Contact: Greg Sargent Telephone (606) 686-1463
2013 Coal Burn 2,328,406,000 pounds

Big Sandy Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	538	172	18,165	75	18,950
Barium	1,575	4,897	135,005	1,500	142,977
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	706	13	29,805	18,075	48,599
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	313	644	42,105	3,900	46,962
Lead	448	17	15,400	77	15,942
Manganese	836	170	39,105	1,800	41,911
Mercury	140	3.7	91	3	238
Nickel	731	303	26,305	7,100	34,439
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	783	0	58,705	0	59,488
Zinc	1,115	450	37,105	0	38,670
Hydrochloric Acid Aerosol	2,090,000	(b)	(b)	(b)	2,090,000
Hydrogen Fluoride	141,000	(b)	(b)	(b)	141,000
Sulfuric Acid Aerosol	224,000	(b)	(b)	(b)	224,000
Ammonia	833	250	N/A	N/A	1,083
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	1.0	0	0	0	1
Dioxins (grams)	0.3	0	0	0	0
Dioxins (ounces)	0.011	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	2,463,019	6,919	401,791	32,531	2,904,260

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Cardinal Plant: Toxics Release Inventory for 2013

Plant: Cardinal, Brilliant, Ohio
Contact: Bernie Lombard Telephone (740) 598-6514
2013 Coal Burn 9,001,700,000 pounds

Cardinal Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	161	3,000	73,565	170	76,896
Barium	181	1	576,305	3,400	579,887
Beryllium	11	0	9,172	0	9,183
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	552	600	122,105	55,171	178,428
Cobalt	87	200	48,245	0	48,532
Copper	290	3,917	151,005	12,000	167,212
Lead	155	0	62,837	184	63,176
Manganese	617	2	201,005	5,500	207,124
Mercury	327	0.0	760	7	1,094
Nickel	622	563	101,405	22,000	124,590
Selenium	3,005	2,000	20,565	34	25,604
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	381	0	233,005	0	233,386
Zinc	1,125	8	157,505	0	158,638
Hydrochloric Acid Aerosol	71,000	(b)	(b)	(b)	71,000
Hydrogen Fluoride	19,200	(b)	(b)	(b)	(a)
Sulfuric Acid Aerosol	664,000	(b)	(b)	(b)	664,000
Ammonia	4,000	1,880	N/A	N/A	5,880
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.2	0	0	0	0
PACs	4.2	0	0	0	4
Dioxins (grams)	1.3	0	0	0	1
Dioxins (ounces)	0.046	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	765,718	12,172	1,757,479	98,466	2,633,836

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Clinch River Plant: Toxics Release Inventory for 2013

Plant: Clinch River, Cleveland, Virginia
Contact: Karen Gilmer Telephone (276) 889-7314
2013 Coal Burn 849,162,000 pounds

Clinch River Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	195	172	52,605	733	53,705
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	(a)	(a)	(a)	(a)	(a)
Lead	60	0	5,749	44	5,853
Manganese	(a)	(a)	(a)	(a)	(a)
Mercury	24	0	53	2	79
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	138	0	21,605	0	21,743
Zinc	(a)	(a)	(a)	(a)	(a)
Hydrochloric Acid Aerosol	792,000	(b)	(b)	(b)	792,000
Hydrogen Fluoride	57,200	(b)	(b)	(b)	57,200
Sulfuric Acid Aerosol	45,200	(b)	(b)	(b)	45,200
Ammonia	355	1,414	N/A	N/A	1,769
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.4	0	0	0	0
Dioxins (grams)	0.1	0	0	0	0
Dioxins (ounces)	0.004	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	895,172	1,586	80,012	779	977,549

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Conesville Plant: Toxics Release Inventory for 2013

Plant: Conesville, Conesville, Ohio
Contact: Rex Green Telephone (740) 829-4065
2013 Coal Burn **5,759,256,000 pounds**

Conesville Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	424	509	48,011	35	48,979
Barium	1,895	33	330,575	653	333,156
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	763	13	69,115	84,037	153,928
Cobalt	379	67	28,054	0	28,500
Copper	364	5,907	93,125	19,000	118,396
Lead	384	3	38,057	83	38,527
Manganese	814	1,100	101,195	8,400	111,509
Mercury	454	4	642	2	1,102
Nickel	742	798	60,125	34,000	95,665
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	531	0	138,215	0	138,746
Zinc	1,325	707	93,086	0	95,118
Hydrochloric Acid Aerosol	38,000	(b)	(b)	(b)	38,000
Hydrogen Fluoride	15,200	(b)	(b)	(b)	15,200
Sulfuric Acid Aerosol	445,000	(b)	(b)	(b)	445,000
Ammonia	996	100	N/A	N/A	1,096
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	2.5	0	0	0	3
Dioxins (grams)	0.8	0	0	0	1
Dioxins (ounces)	0.028	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	507,274	9,241	1,000,201	146,210	1,662,925

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Flint Creek Plant: Toxics Release Inventory for 2013

Plant: Flint Creek, Gentry, Arkansas
Contact: Scott Carney Telephone (479) 736-3526
2013 Coal Burn 3,756,890,000 pounds

Flint Creek Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	2,405	6,000	450,005	301	458,711
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	166	2,100	19,505	4,000	25,771
Lead	115	4	5,009	18	5,146
Manganese	409	160	44,005	1,800	46,374
Mercury	184	0	30	0.6	215
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	221	0	26,705	0	26,926
Zinc	610	190	17,705	0	18,505
Hydrochloric Acid Aerosol	16,000	(b)	(b)	(b)	16,000
Hydrogen Fluoride	57,400	(b)	(b)	(b)	57,400
Sulfuric Acid Aerosol	(a)	(b)	(b)	(b)	(a)
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	1.2	0	0	0	1
Dioxins (grams)	0.4	0	0	0	0
Dioxins (ounces)	0.014	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	77,511	8,454	562,964	6,120	655,049

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Gavin Plant: Toxics Release Inventory for 2013

Plant: Gavin, Chesire, Ohio
Contact: Doug Workman Telephone (740) 925-3135
2013 Coal Burn 13,023,368,000 pounds

Gavin Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	889	59	109,605	150	110,703
Barium	1,705	3,119	829,005	3,110	836,939
Beryllium	46	18	13,305	0	13,369
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	1,340	196	176,005	55,150	232,691
Cobalt	565	144	71,005	0	71,714
Copper	1,090	1,410	229,005	12,000	243,505
Lead	801	29	89,973	163	90,967
Manganese	1,610	0	269,005	5,500	276,115
Mercury	189	0	1,495	6	1,691
Nickel	1,450	738	152,005	22,000	176,193
Selenium	4,365	12	32,845	31	37,253
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	36	46	27,705	0	27,787
Vanadium	1,335	0	345,005	0	346,340
Zinc	3,135	722	226,005	0	229,862
Hydrochloric Acid Aerosol	218,000	(b)	(b)	(b)	218,000
Hydrogen Fluoride	53,500	(b)	(b)	(b)	53,500
Sulfuric Acid Aerosol	829,000	(b)	(b)	(b)	829,000
Ammonia	5,120	0	N/A	N/A	5,120
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.2	0	0	0	0
PACs	5.4	0	0	0	5
Dioxins (grams)	1.7	0	0	0	2
Dioxins (ounces)	0.060	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	1,124,182	6,492	2,571,968	98,111	3,800,752

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Glen Lyn Plant: Toxics Release Inventory for 2013

Plant: Glen Lyn, Glen Lyn, Virginia
Contact: Henry Parker Telephone (540) 726-1139
2013 Coal Burn 165,808,000 pounds

Glen Lyn Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	(a)	(a)	(a)	(a)	(a)
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	(a)	(a)	(a)	(a)	(a)
Lead	14	0	48	1,107	1,169
Manganese	(a)	(a)	(a)	(a)	(a)
Mercury	9	0	0	6	15
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	(a)	(a)	(a)	(a)	(a)
Zinc	(a)	(a)	(a)	(a)	(a)
Hydrochloric Acid Aerosol	134,000	(b)	(b)	(b)	134,000
Hydrogen Fluoride	(a)	(b)	(b)	(b)	(a)
Sulfuric Acid Aerosol	(a)	(b)	(b)	(b)	(a)
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.1	0	0	0	0
Dioxins (grams)	(a)	0	0	0	(a)
Dioxins (ounces)	(a)	0	0	0	(a)
Dioxins (ounces TEQ) (c)	0	0	0	0	(a)
Totals	134,023	0	48	1,113	135,184

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Kammer/Mitchell Plant: Toxics Release Inventory for 2013

Plant: Kammer/Mitchell, Moundsville, West Virginia
Contact: Jeff Palmer Telephone (304) 843-6051
2013 Coal Burn **5,819,396,000** **pounds**

Kammer/Mitchell Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	93	2	48,005	163	48,263
Barium	97	2,730	350,005	3,100	355,932
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	425	26	72,005	120,166	192,622
Cobalt	300	66	29,005	0	29,371
Copper	177	2,000	99,005	25,000	126,182
Lead	337	16	39,250	213	39,816
Manganese	463	1,800	94,005	12,000	108,268
Mercury	211	0	426	7	644
Nickel	675	1,110	63,005	46,000	110,790
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	255	0	140,005	0	140,260
Zinc	677	740	94,005	0	95,422
Hydrochloric Acid Aerosol	826,000	(b)	(b)	(b)	826,000
Hydrogen Fluoride	75,300	(b)	(b)	(b)	75,300
Sulfuric Acid Aerosol	321,000	(b)	(b)	(b)	321,000
Ammonia	2,270	3,300	N/A	N/A	5,570
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	2.6	0	0	0	3
Dioxins (grams)	0.8	0	0	0	1
Dioxins (ounces)	0.028	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	1,228,283	11,790	1,028,721	206,649	2,475,443

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Kanawha River Plant: Toxics Release Inventory for 2013

Plant: Kanawha River, Glasgow, West Virginia
Contact: Brian Doak Telephone (304) 353-3513
2013 Coal Burn 861,050,000 pounds

Kanawha River Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	35	760	5	52,400	53,200
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	(a)	(a)	(a)	(a)	(a)
Lead	22	19	0	14,400	14,441
Manganese	(a)	(a)	(a)	(a)	(a)
Mercury	47	0	0	34	81
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	45	0	5	0	50
Zinc	(a)	(a)	(a)	(a)	(a)
Hydrochloric Acid Aerosol	776,000	(b)	(b)	(b)	776,000
Hydrogen Fluoride	52,900	(b)	(b)	(b)	52,900
Sulfuric Acid Aerosol	58,400	(b)	(b)	(b)	58,400
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.4	0	0	0	0
Dioxins (grams)	0.1	0	0	0	0
Dioxins (ounces)	0.004	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	887,449	779	10	66,834	955,073

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Mountaineer Plant: Toxics Release Inventory for 2013

Plant: Mountaineer, New Haven, West Virginia
Contact: Randy Brown Telephone (304) 882-4042
2013 Coal Burn **4,458,290,000** **pounds**

Mountaineer Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	62	14	24,925	150	25,151
Barium	58	410	194,005	3,002	197,475
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	368	0	40,905	99,150	140,423
Cobalt	39	0	16,005	0	16,044
Copper	120	16	56,305	22,000	78,441
Lead	58	0	20,827	154	21,039
Manganese	147	0	103,505	9,900	113,552
Mercury	20	0	329	6	355
Nickel	318	36	36,305	39,000	75,659
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	185	0	79,805	0	79,990
Zinc	474	78	58,391	0	58,943
Hydrochloric Acid Aerosol	12,000	(b)	(b)	(b)	12,000
Hydrogen Fluoride	11,200	(b)	(b)	(b)	11,200
Sulfuric Acid Aerosol	249,000	(b)	(b)	(b)	249,000
Ammonia	2,100	0	N/A	N/A	2,100
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	2	0	0	0	2
Dioxins (grams)	0.7	0	0	0	1
Dioxins (ounces)	0.025	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	276,151	554	631,307	173,362	1,081,375

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Muskingum River Plant: Toxics Release Inventory for 2013

Plant: Muskingum River, Waterford, Ohio
Contact: Jim Ludwig Telephone (740) 984-3468
2013 Coal Burn 1,895,584,000 pounds

Muskingum River Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	175	340	15,005	46	15,566
Barium	378	1,300	98,005	910	100,593
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	204	250	21,005	5,646	27,105
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	150	3,500	26,005	1,200	30,855
Lead	152	0	12,201	47	12,400
Manganese	252	48	26,005	560	26,865
Mercury	136	0	62	2	200
Nickel	275	490	17,005	2,200	19,970
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	294	0	41,005	0	41,299
Zinc	548	140	28,005	0	28,693
Hydrochloric Acid Aerosol	1,530,000	(b)	(b)	(b)	1,530,000
Hydrogen Fluoride	118,000	(b)	(b)	(b)	118,000
Sulfuric Acid Aerosol	278,000	(b)	(b)	(b)	278,000
Ammonia	769	150	N/A	N/A	919
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.8	0	0	0	1
Dioxins (grams)	0.3	0	0	0	0
Dioxins (ounces)	0.011	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	1,929,334	6,218	284,303	10,611	2,230,466

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Northeastern Plant: Toxics Release Inventory for 2013

Plant: Northeastern, Oolagah, Oklahoma
Contact: Sammie Miller Telephone (918) 581-0063
2013 Coal Burn 7,849,570,000 pounds

Northeastern Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	2,475	1,800	400,005	2,014	406,294
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	508	44	8,405	53,093	62,050
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	264	100	14,205	12,000	26,569
Lead	143	38	3,116	115	3,412
Manganese	844	880	40,005	5,300	47,029
Mercury	425	0	7	4	436
Nickel	588	38	10,605	21,000	32,231
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	258	0	21,605	0	21,863
Zinc	955	120	12,305	0	13,380
Hydrochloric Acid Aerosol	40,000	(b)	(b)	(b)	40,000
Hydrogen Fluoride	118,000	(b)	(b)	(b)	118,000
Sulfuric Acid Aerosol	12,600	(b)	(b)	(b)	12,600
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	2.5	0	0	0	3
Dioxins (grams)	0.8	0	0	0	1
Dioxins (ounces)	0.028	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	177,063	3,020	510,258	93,526	783,867

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Oklaunion Plant: Toxics Release Inventory for 2013

Plant: Oklaunion, Vernon, Texas
Contact: Patrick Hunter Telephone (940) 886-2735
2013 Coal Burn 4,800,042,000 pounds

Oklaunion Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	630	0	240,005	563	241,198
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	114	0	6,305	3,200	9,619
Lead	56	0	1,535	31	1,622
Manganese	484	0	29,005	1,500	30,989
Mercury	214	0	17	1	232
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	115	0	14,005	0	14,120
Zinc	431	0	7,305	0	7,736
Hydrochloric Acid Aerosol	39,950	(b)	(b)	(b)	39,950
Hydrogen Fluoride	21,200	(b)	(b)	(b)	21,200
Sulfuric Acid Aerosol	(a)	(b)	(b)	(b)	(a)
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	1.5	0	0	0	2
Dioxins (grams)	0.5	0	0	0	1
Dioxins (ounces)	0.018	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	63,196	0	298,177	5,295	366,668

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Picway Plant: Toxics Release Inventory for 2013

Plant: Picway, Lockbourne, Ohio
Contact: Rex Green Telephone (740) 829-4065
2013 Coal Burn 65,808,000 pounds

Picway Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	(a)	(a)	(a)	(a)	(a)
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	(a)	(a)	(a)	(a)	(a)
Lead	8	0	425	0	433
Manganese	(a)	(a)	(a)	(a)	(a)
Mercury	12	0	2	0	14
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	(a)	(a)	(a)	(a)	(a)
Zinc	(a)	(a)	(a)	(a)	(a)
Hydrochloric Acid Aerosol	(a)	(b)	(b)	(b)	(a)
Hydrogen Fluoride	(a)	(b)	(b)	(b)	(a)
Sulfuric Acid Aerosol	(a)	(b)	(b)	(b)	(a)
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	(a)	0	0	0	(a)
PACs	0.0	0	0	0	0.00
Dioxins (grams)	(a)	0	0	0	(a)
Dioxins (ounces)	(a)	0	0	0	(a)
Dioxins (ounces TEQ) (c)	0	0	0	0	(a)
Totals	20	0	427	0	447

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.
(d) Picway did not report any releases for 2012. All releases were below reporting thresholds.

Pirkey Plant: Toxics Release Inventory for 2013

Plant: Pirkey, Hallsville, Texas

Contact: Samantha McDonald Telephone (903) 927-5853

2013 Coal Burn 8,098,424,000 pounds

Pirkey Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	47	1	21,005	0	21,053
Barium	484	20	1,030,005	0	1,030,509
Beryllium	11	0	23,805	0	23,816
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	452	0	75,005	28,001	103,458
Cobalt	38	0	28,305	0	28,343
Copper	154	0	74,005	6,200	80,359
Lead	101	1	53,659	14	53,775
Manganese	610	0	542,005	2,800	545,415
Mercury	708	0	904	0.2	1,612
Nickel	575	1	58,005	11,000	69,581
Selenium	3,195	2	23,205	0	26,402
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	17	0	45,005	0	45,022
Vanadium	76	0	167,005	0	167,081
Zinc	333	1	67,505	0	67,839
Hydrochloric Acid Aerosol	16,000	(b)	(b)	(b)	16,000
Hydrogen Fluoride	78,300	(b)	(b)	(b)	78,300
Sulfuric Acid Aerosol	37,600	(b)	(b)	(b)	37,600
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	N/A	N/A	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	2.0	0	0	0	2.0
Dioxins (grams)	0.6	0	0	0	1
Dioxins (ounces)	0.021	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	138,703	26	2,209,423	48,016	2,396,167

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Rockport Plant: Toxics Release Inventory for 2013

Plant: Rockport, Rockport, Indiana
Contact: John LaGrange Telephone (812) 649-2050
2013 Coal Burn 17,678,690,000 pounds

Rockport Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	113	0	28,895	0	29,008
Arsenic	415	158	44,268	186	45,027
Barium	5,765	9,930	2,324,005	3,629	2,343,329
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	1,040	95	94,905	160,186	256,226
Cobalt	223	25	38,335	0	38,583
Copper	731	631	147,735	35,000	184,097
Lead	517	23	49,586	191	50,317
Manganese	1,800	1,770	260,205	16,000	279,775
Mercury	203	0	721	7	932
Nickel	1,430	160	95,405	64,000	160,995
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	39	0	25,205	0	25,244
Vanadium	969	0	217,905	0	218,874
Zinc	2,735	140	139,685	0	142,560
Hydrochloric Acid Aerosol	1,890,000	(b)	(b)	(b)	1,890,000
Hydrogen Fluoride	324,000	(b)	(b)	(b)	324,000
Sulfuric Acid Aerosol	138,000	(b)	(b)	(b)	138,000
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.2	0	0	0	0
PACs	5.9	0	0	0	5.9
Dioxins (grams)	1.8	0	0	0	2
Dioxins (ounces)	0.064	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	2,367,986	12,932	3,466,855	279,200	6,126,973

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Sporn Plant: Toxics Release Inventory for 2013

Plant: Sporn, New Haven, West Virginia

Contact: David Thompson Telephone (304) 882-1683

2013 Coal Burn **1,003,632,000** **pounds**

Sporn Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	51	22	8,435	19	8,527
Barium	78	640	62,005	392	63,115
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	316	0	13,105	6,919	20,340
Cobalt	268	0	5,295	0	5,563
Copper	64	4,000	16,405	1,500	21,969
Lead	53	0	6,890	1,502	8,445
Manganese	331	350	16,705	690	18,076
Mercury	56	0	36	1	93
Nickel	354	460	11,305	2,800	14,919
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	92	0	26,305	0	26,397
Zinc	212	100	16,605	0	16,917
Hydrochloric Acid Aerosol	901,000	(b)	(b)	(b)	901,000
Hydrogen Fluoride	61,500	(b)	(b)	(b)	61,500
Sulfuric Acid Aerosol	64,500	(b)	(b)	(b)	64,500
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.4	0	0	0	0.4
Dioxins (grams)	0.1	0	0	0	0
Dioxins (ounces)	0.004	0	0	0	0.004
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	1,028,875	5,572	183,091	13,823	1,231,362

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.

(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.

(c) Toxic equivalent; see AEP.Com for further explanation.

Tanners Creek: Toxics Release Inventory for 2013

Plant: Tanners Creek, Lawrenceburg, Indiana
Contact: Sharon McFarland Telephone (812) 532-3124
2013 Coal Burn 2,161,026,000 pounds

Tanners Creek Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	151	8,400	870,005	1,404	879,960
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	65	3,700	84,005	2,800	90,570
Lead	44	44	37,978	92	38,158
Manganese	313	0	113,005	1,300	114,618
Mercury	46	0	448	3	497
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	84	0	124,005	0	124,089
Zinc	242	53	95,005	0	95,300
Hydrochloric Acid Aerosol	653,000	(b)	(b)	(b)	653,000
Hydrogen Fluoride	68,200	(b)	(b)	(b)	68,200
Sulfuric Acid Aerosol	42,500	(b)	(b)	(b)	42,500
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.0	0	0	0	0
PACs	0.8	0	0	0	0.8
Dioxins (grams)	0.3	0	0	0	0
Dioxins (ounces)	0.011	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	764,646	12,197	1,324,451	5,599	2,106,893

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

John W Turk Plant: Toxics Release Inventory for 2013

Plant: John W Turk, Fulton, Arkansas
Contact: James Simms Telephone (903) 831-1514
2013 Coal Burn 3,877,454,000 pounds

Turk Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	(a)	(a)	(a)	(a)	(a)
Arsenic	(a)	(a)	(a)	(a)	(a)
Barium	58	970	630,005	40	631,073
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	(a)	(a)	(a)	(a)	(a)
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	41	12	25,005	0	25,058
Lead	24	1	7,357	8	7,389
Manganese	196	2,300	60,005	0	62,501
Mercury	23	0	210	0	233
Nickel	(a)	(a)	(a)	(a)	(a)
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	19	0	36,005	0	36,024
Zinc	150	18	26,005	0	26,173
Hydrochloric Acid Aerosol	1,330	(b)	(b)	(b)	1,330
Hydrogen Fluoride	671	(b)	(b)	(b)	671
Sulfuric Acid Aerosol	1,340	(b)	(b)	(b)	1,340
Ammonia	13,000	750	N/A	N/A	13,750
Chlorine	(a)	(a)	(a)	(a)	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	1.3	0	0	0	1.3
Dioxins (grams)	0.4	0	0	0	0
Dioxins (ounces)	0.014	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	16,853	4,051	784,592	48	805,544

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.

Welsh: Toxics Release Inventory for 2013

Plant: Welsh, Pittsburg, Texas
Contact: Michael Brice Telephone (903) 855-5444
2013 Coal Burn 11,105,902,000 pounds

Welsh Plant Estimated Releases for 2013 (Pounds)

Chemical	Air	Water	On-site Land	Off-site Transfer	Total
Antimony	70	98	2,205	0	2,373
Arsenic	104	98	595	55	852
Barium	3,505	13,000	390,005	1,090	407,600
Beryllium	(a)	(a)	(a)	(a)	(a)
Cadmium	(a)	(a)	(a)	(a)	(a)
Chromium	757	170	8,805	6,455	16,187
Cobalt	(a)	(a)	(a)	(a)	(a)
Copper	368	6,200	8,705	1,400	16,673
Lead	190	98	1,822	(a)	(a)
Manganese	1,139	540	44,005	640	46,324
Mercury	429	0	0	3	432
Nickel	958	790	11,005	2,600	15,353
Selenium	(a)	(a)	(a)	(a)	(a)
Silver	(a)	(a)	(a)	(a)	(a)
Thallium	(a)	(a)	(a)	(a)	(a)
Vanadium	443	0	22,005	0	22,448
Zinc	1,395	280	9,505	0	11,180
Hydrochloric Acid Aerosol	50,000	(b)	(b)	(b)	50,000
Hydrogen Fluoride	124,000	(b)	(b)	(b)	124,000
Sulfuric Acid Aerosol	16,400	(b)	(b)	(b)	16,400
Ammonia	(a)	(a)	N/A	N/A	(a)
Chlorine	(a)	(a)	N/A	N/A	(a)
Benzo(g,h,i)perylene	0.1	0	0	0	0
PACs	3.6	0	0	0	3.6
Dioxins (grams)	1.1	0	0	0	1
Dioxins (ounces)	0.039	0	0	0	0
Dioxins (ounces TEQ) (c)	0	0	0	0	0
Totals	199,762	21,274	498,657	12,242	731,935

(a) The management and release of this substance falls below reporting levels set by the U.S. EPA.
(b) U.S. EPA only requires reporting of airborne forms of hydrochloric and sulfuric acid.
(c) Toxic equivalent; see AEP.Com for further explanation.