

COAL SUPPLY AND DEMAND IN INDIANA

**Compiled by A. Drobniak, M. Mastalerz, and K. Shaffer
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Map available at: <http://www.purdue.edu/dp/energy/pdf/CoalMap1.pdf>

Tables included in this document.

Table 1 – Lithostratigraphy of the Pennsylvanian System in Indiana (modified from Mastalerz and Harper, 1998, and the Tri-State Committee on Correlation of the Pennsylvanian System in the Illinois Basin 2001). The table shows major coal beds.

ILLINOIS				INDIANA				W. KENTUCKY										
		Coal Member or Bed	✦			Coal Member	✦			Coal Member or Bed	✦							
Raccoon Creek Group	Caseyville Fm.	Gentry		Raccoon Creek Group	Mansfield Fm.	Shady Lane		Raccoon Creek Group	Caseyville	Battery Rock		Morrowan						
						St. Meinrad				French Lick				Nolin				
	Reynoldsburg		Blue Creek		Pinnick	Foster	Amos		Bell	No.3	(Ice House)							
	Willis		Mariah Hill		Upper Block	Elm Lick	Lead Creek/Dunbar		No.4				(Mining City)					
No group name	Carbondale Fm.	Colchester	No.2	Carbondale Group	Linton Fm.	Seelyville	III	No group name		Carbondale Fm.	Davis	No.6		Desmoinesian				
		Dekoven				Colchester	IIIa		Colchester		No.7							
		Survant			Survant	IV	Survant		No.8									
		Houchin Creek			Houchin Creek		Houchin Creek											
No group name	Carbondale Fm.	Springfield	No.5	Carbondale Group	Petersburg Fm.	Springfield	V	No group name	Carbondale Fm.	Springfield	No.9	Desmoinesian						
		Herrin	No.6			Dugger Fm.	Vb			Herrin	No.11							
					Danville	VII	Baker			No.13								
		Danville	No.7		Hymera	VI	Paradise			No.12								
McLeansboro Group	Shelburn Fm.	Danville	No.7	McLeansboro Group	Shelburn Fm.	Pirtle		McLeansboro Group	Shelburn Fm.	Baker		Missourian						
														Patoka Fm.	Parker		Patoka Fm.	
															Raben Branch			
														Bond Fm.		Fairbanks		Bond Fm.
Mattoon Fm.		Cohn																

✦ Informal name

Table 2 – Summary of Available and Restricted Coal Resources for Main Economic Coal Beds in Indiana (in billion short tons).

Coal bed	Original	Mined -out	Remaining	Restricted	Total available (Remaining - Restricted)	Available as % of original	Available for surface mining	Available for underground mining
Danville	6.55	0.36	6.19	5.33	0.83	13.89	0.35	0.52
Hymera	5.53	0.55	4.98	4.10	0.87	17.47	0.15	0.81
Springfield	13.31	1.31	12.00	4.65	7.35	61.25	0.82	6.94
Houchin Creek	5.92	0.0022	5.92	5.56	0.36	6.08	0.18	0.17
Survant	8.47	0.31	8.17	6.86	1.31	16.03	0.22	1.10
Colchester	5.14	0.001	5.14	4.95	0.19	3.70	0.11	0.10
Seelyville	14.61	0.33	14.28	7.68	6.60	46.22	0.30	6.30
	59.53	2.8632	56.68	39.13	17.54	30.95	2.13	15.94

Table 3 – Active Surface Mines in Indiana as of February 2006.

ID	Company Surface Mine Name	County	Year opened	2004 Production (1,000 short tons)
B. B. Mining, Inc.				
1	Pride* ¹	Knox	1996	256
Black Beauty Coal Company				
2	Discovery #1, Somerville South Pit	Gibson	1993	1,830
3	Farmersburg #1, South Pit	Sullivan, Vigo	1996	4,268
4	Francisco	Gibson	1996	2,133
5	Miller Creek, Jenlin Pit* ²	Clay	2005	
6	Miller Creek, Sugar Ridge* ⁶	Clay	2001	865
7	Miller Creek, Knox Pit			
8	Somerville #1, Somerville Central	Gibson	1996	5,371
9	Somerville East* ²	Pike	1996	
10	Viking, Corning Pit	Daviess	1985	1,460
Coal Field Development Company				
11	Hymera Mine* ²	Sullivan	2005	
Kindill Mining, Inc.				
12	Kindill #2, White Church Pit* ³	Pike	1974	1,203
13	Kindill #3, Penndiana Pit* ³	Sullivan	1967	929
Solar Sources, Inc.				
14	Cannelburg	Daviess	1978	2,198
15	Cannelburg, Midway II Pit* ⁴	Daviess	1978	
16	Lewis	Clay, Vigo	2001	417
Triad Mining, Inc.				
17	Augusta	Pike	2002	676
18	Augusta South* ²	Pike	2002	
19	Flint Hill	Spencer	2000	311
20	Freelandville	Knox	1996	408
21	Freelandville, East Pit	Knox	1996	462
22	Lyons	Greene	2003	218
23	Patoka River	Gibson, Pike	1996	799
Vigo Coal Company, Inc.				
24	Cypress Creek	Warrick	1998	1,202
25	Rangeline* ⁵	Warrick	2001	98

*1 Idled.

*2 No production reported for 2004

*3 Closed and sold in 2004. Will reopen under new ownership

*4 Currently inactive, but expected to resume production in mid to late 2006

*5 Idled slurry operation

*6 in reclamation

Table 4 – Active Underground Mines in Indiana as of February 2006.

ID	Company Underground Mine Name	County	Year opened	2004 Production (1,000 short tons)
Black Beauty Coal Company				
26	Air Quality ^{*7}	Knox	1993	1,715
27	Francisco Underground	Gibson	2003	961
Five Star Mining, Inc.				
28	Prosperity	Pike	2000	2,345
Gibson County Coal, LLC				
29	Gibson County	Gibson	2000	2,978
Solar Sources, Inc.				
30	Monroe City ^{*1}	Knox	1994	884
Sunrise Coal, LLC				
31	Howesville ^{*2}	Greene	2005	
Triad Mining, Inc.				
32	Freelandville Underground ^{*8}	Knox	2001	444
White River Coal, Inc.				
33	Hazleton	Gibson	2002	713

*7 includes 3 underground mines

*8 Production includes some surface production

Table 5 – Coal Both Produced and Used in Indiana (2004, Thousand Short Tons).

Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
Indiana	16,788	-	12,336	404	29,543
Railroad	8,814	-	273	-	9,088
River	927	-	-	-	927
Tidewater Piers Tramway, Conveyor, and Slurry	-	-	-	-	15
Pipeline	732	-	2,974	-	3,705
Truck	6,315	-	9,089	404	15,808

Table 6 – Coal Imported to Indiana from Other States (2004, Thousand Short tons).

Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
Total	23,695	6,944	539	25	31,201
Railroad	21,317	6,189	221	15	27,742
River	1,510	754	36	-	2,300
Tidewater Piers Tramway, Conveyor, and Slurry	-	-	-	-	
Pipeline	-	-	-	-	
Truck	866	-	282	11	1,159

Table 7 – Coal imported into Indiana (in thousand short tons) (2004 data).

State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
Alabama	-	614	-	-	614
Railroad	-	614	-	-	614
Colorado	51	-	-	-	51
Railroad	51	-	-	-	51
Illinois	4,301	-	180	-	4,481
Railroad	3,168	-	-	-	3,168
River	352	-	-	-	352
Truck	781	-	180	-	960
Kentucky Total	367	105	202	1	674
Railroad	91	105	129	-	325
River	276	-	11	-	287
Truck	-	-	62	1	63
Eastern Kentucky	98	105	179	1	383
Railroad	66	105	129	-	300
River	32	-	2	-	34
Truck	-	-	49	1	49
Western Kentucky	268	-	23	-	291
Railroad	25	-	-	-	25
River	243	-	10	-	253
Truck	-	-	14	-	14
Montana	1,711	-	-	-	1,711
Railroad	1,711	-	-	-	1,711
Ohio	201	-	*	-	201
Railroad	67	-	-	-	67
River	48	-	-	-	48
Truck	86	-	*	-	86
Pennsylvania Total	1,740	-	*	11	1,751
Railroad	985	-	-	1	986
River	755	-	-	-	755
Truck	-	-	*	10	10
Anthracite	*	-	*	11	11
Railroad	*	-	-	1	1
Truck	-	-	*	10	10
Bituminous	1,740	-	-	-	1,740
Railroad	985	-	-	-	985
River	755	-	-	-	755
Virginia	326	1,341	94	-	1,761
Railroad	326	1,341	91	-	1,758
River	-	-	2	-	2
West Virginia Total	146	4,884	63	13	5,105
Railroad	67	4,129	-	13	4,209
River	79	754	22	-	855
Truck	-	-	41	-	41
Northern	68	-	-	-	68
River	68	-	-	-	68
Southern	78	4,884	63	13	5,038
Railroad	67	4,129	-	13	4,209
River	11	754	22	-	788
Truck	-	-	41	-	41
Wyoming	14,852	-	-	-	14,852
Railroad	14,852	-	-	-	14,852
Total	23,695	6,944	539	25	31,201
Railroad	21,317	6,189	221	15	27,742
River	1,510	754	36	-	2,300
Tidewater Piers	-	-	-	-	-
Tramway, Conveyor, and Slurry Pipeline	-	-	-	-	-
Truck	866	-	282	11	1,159

Table 8 – Coal Exported from Indiana (in thousand short tons) (2004 data).

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
Alabama	239	-	-	-	239
River	238	-	-	-	238
Truck	1	-	-	-	1
Florida	61	-	-	-	61
River	61	-	-	-	61
Illinois	369	-	47	14	430
Railroad	7	-	-	-	7
River	102	-	46	-	148
Truck	260	-	1	14	275
Iowa	-	-	45	-	45
River	-	-	45	-	45
Kentucky	1,797	-	1,137	34	2,968
Railroad	550	-	-	-	550
River	953	-	-	-	953
Truck	294	-	1,137	34	1,465
Michigan	12	-	-	-	12
Great Lakes	12	-	-	-	12
Minnesota	81	-	-	-	81
Railroad	81	-	-	-	81
Mississippi	5	-	-	-	5
River	5	-	-	-	5
Missouri	-	-	135	-	135
River	-	-	133	-	133
Truck	-	-	2	-	2
New York	88	-	-	-	88
Railroad	88	-	-	-	88
Ohio	122	-	-	-	122
Truck	122	-	-	-	122
Pennsylvania	-	-	33	-	33
River	-	-	33	-	33
Tennessee	-	-	-	28	28
River	-	-	-	28	28
Wisconsin	315	-	142	-	457
Railroad	262	-	142	-	404
River	53	-	-	-	53
Unknown State	-	-	-	-	383
Unknown	-	-	-	-	383
Total	3,089	-	1,539	76	5,087
Great Lakes	12	-	-	-	12
Railroad	988	-	142	-	1,130
River	1,412	-	-	28	1,697
Tidewater Piers	-	-	-	-	-
Tramway, Conveyor, and Slurry Pipeline	-	-	-	-	-
Truck	677	-	1,140	48	1,865
Unknown	-	-	-	-	383

Table 9 – Investor Owned, Cooperative, and Municipal Coal Burning Electric Power Plants.

ID	Company Plant Name	County	Generation Capacity (MW) ^{*2}	Coal burned in 2004 (1,000 tons) ^{*3}	Origin of coal received in 2004 (1,000 tons) ^{*4}			
					Indiana	Other Illinois Basin ^{*5}	Eastern	Western
1	Crawfordsville Electric Light & Power Co. Crawfordsville	Montgomery	25	24				
2	Hoosier Energy R E C Inc. Frank E. Ratts	Pike	234	714	725			
3	Merom ^{*6}	Sullivan	1,080	2,899	2,746			
4	Indiana Michigan Power Co. Rockport	Spencer	2,600	9,207	454		217	7,172
5	Tanners Creek	Dearborn	1,101	2,581	30	189	1,741	529
6	Indiana-Kentucky Electric Corp. Clifty Creek	Jefferson	1,304	4,488		117	1,037	3,411
7	Indianapolis Power & Light Co. Petersburg ^{*6}	Pike	1,873	5,213	4,919			
8	Eagle Valley (formerly Pritchard)	Morgan	302	746	719			
9	Harding Street (formerly Elmer W. Stout)	Marion	698	1,877	1,882	6		
10	City of Jasper Jasper 2	Dubois	15	37				
11	City of Logansport Logansport	Cass	43	101				
12	Northern Indiana Public Service Co. Bailey ^{*6}	Porter	616	1,424	203	1,071	76	
13	Michigan City	La Porte	540	1,539			190	1,364
14	R. M. Schahfer ^{*6}	Jasper	1,944	5,026		1,307	716	2,953
15	City of Peru Peru	Miami	35	17				
16	PSI Energy Inc. Cayuga	Vermillion	1,062	3,185	1,831	1,026		
17	Edwardsport	Knox	110	282	272			
18	Gibson ^{*6}	Gibson	3,340	9,583	7,161	1,529		
19	R. Gallagher ^{*7}	Floyd	600	1,511	1,029	129	171	
20	Wabash River	Vigo	1,165	2,247	2,123	67		
21	City of Richmond Whitewater Valley ^{*6}	Wayne	94	258	36		207	
22	Southern Indiana Gas & Electric Co. A. B. Brown ^{*6}	Posey	531	1,263	1,222			
23	F. B. Culley ^{*6}	Warrick	415	1,296	1,247			
24	Southern Indiana Gas & Electric Co. and Alcoa Generating Corp. Warrick	Warrick	742	2,637	527			
25	State Line Energy LLC State Line Energy	Lake	613	1,624				

*¹ Sources: U.S. DOE; U.S. Federal Energy Regulatory Commission (FERC). Existing generating plants as of January 1, 2005.

*² MW totals include coal-burning units, but not units burning other fuels so may not match plant totals published elsewhere. Nameplate capacity.

*³ Data from US-DOE, 2004 most recent data available.

*⁴ Due to stockpiling or reduction in stocks, tons of coal received are not identical to tons burned in 2004. Data available only for plants with generating capacity greater than 50 MW. Data unavailable for State Line Energy. The plant utilizes western coal and all electricity is used in the Chicago, Ill., area.

*⁵ Excludes Indiana.

*⁶ Plants with scrubbers.

*⁷ R. Gallagher, also received 63 tons of Kentucky coal from unspecified counties. Could be Interior or Eastern coal.

Table 10 – Major Coal Burning Industrial and Institutional Plants.

ID	NAME	County	City	Tons of Coal/2004
26	A.E. Staley Sagamore Operation	Tippecanoe	Lafayette	67,644
27	Ball State University	Delaware	Muncie	29,086
28	Bunge North America (East), L.L.C.	Adams	Decatur	36,211
29	C.C. Perry K Steam Plant	Marion	Indianapolis	134,875
30	Child Craft Industries, Inc.	Washington	Salem	10
31	Colonial Brick Corp.	Vermillion	Cayuga	4,892
32	Daimlerchrysler Corp Transmission Plant	Howard	Kokomo	25,698
33	Eli Lilly & Company - Clinton Labs	Vermillion	Clinton	62,653
34	Eli Lilly & Company -Tippecanoe Labs	Tippecanoe	Lafayette	38,350
35	F-Jasper 11th Ave	Dubois	Jasper	183
36	Frito-Lay, Inc.	Clinton	Frankfort	18,186
37	GE Plastics Mt. Vernon Inc.	Posey	Mount Vernon	229,495
38	Griffin Industries, Inc. - Newberry	Greene	Newberry	9,865
39	Holy Cross Services Corp.	St. Joseph	Notre Dame	2,849
40	Indiana University	Monroe	Bloomington	71,475
41	International Paper Co.	Vigo	Terre Haute	77,473
42	Jasper Chair Co.	Dubois	Jasper	118
43	Jasper Wood Prod.	Dubois	Jasper	42
44	Jofco Plt 1 & 2	Dubois	Jasper	199
45	Keller Manufacturing Co., Inc.	Harrison	Corydon	550
46	Kimball International	Dubois	Jasper	118
47	Lehigh Cement Company	Lawrence	Mitchell	130,364
48	Muscatatuck State Hospital & Training	Jennings	Butlerville	1,972
49	New Energy Corp.	St. Joseph	South Bend	115,789
50	Pernod Ricard USA	Dearborn	Lawrenceburg	56,075
51	Pfizer Inc	Vigo	Terre Haute	21,108
52	Purdue University - Wade Utility Plant	Tippecanoe	West Lafayette	180,184
53	Saint Josephs College	Jasper	Rensselaer	2,612
54	Tate & Lyle, Lafayette South	Tippecanoe	Lafayette	84,923
55	University Of Notre Dame Du Lac	St. Joseph	Notre Dame	76,344

Source: Indiana Department of Environmental Management (2004)