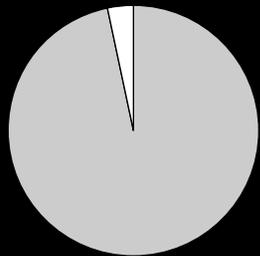
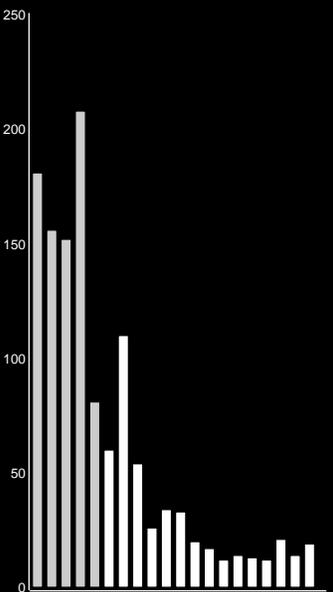


Indiana



Production tonnage 1978-1997

U.S. Total
Indiana Coal Production



Number of new permits 1978-1997

Interim Program
Permanent Program

Indiana has mined the highest percent of its coal reserves

Coal mining in Indiana is limited to the southwestern portion of the state, with coal currently being recovered in 19 counties. The coal-producing area of the state covers approximately 6,500 square miles.

Although most of the coal in Indiana is recovered by surface mining methods, a small percent is recovered through underground mining. To date, 40 percent of Indiana's known coal reserves have been removed. Indiana has about 33 billion tons of identified coal reserves remaining, of which approximately 17 billions are recoverable using current technology. Of this recoverable coal, about 15 billion tons are recoverable by underground mining and 2 billion tons are recoverable by surface mining methods.

The State of Indiana has regulated the environmental impacts of coal mining since 1941. Indiana was the second state in the nation to pass legislation requiring mined land reclamation. Its regulatory program under the Surface Mining Law was approved July 29, 1982, and its Abandoned Mine Land Program was approved July 29, 1982. Indiana assumed responsibility for the emergency program in November 1994.

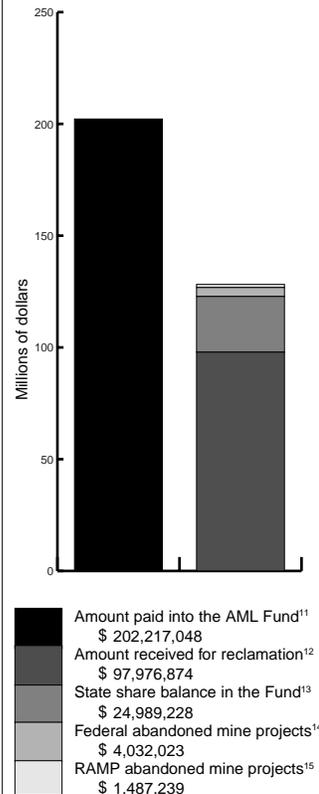
Until Indiana assumed the emergency program, the Office of Surface Mining completed all Abandoned Mine Land emergency projects. Since 1977, 130 emergency projects have been completed in Indiana. Most of these projects eliminated subsidence hazards.

The Indiana Abandoned Mine Lands Program has completed \$42 million of high priority projects. This reclamation has eliminated dangerous highwalls, refuse piles and embankments, and vertical mine openings. In addition, the state has reclaimed \$36 million of environmental (Priority 3) problems.

Indiana has approximately \$9 million of remaining priority 1 and 2 Abandoned Mine Land hazards and over \$18 million of remaining environmental problems.

coal production¹⁰

	1978		1997		1978-1997 Rank
	Amount	Percent U.S. Total	Amount	Percent U.S. Total	
Tons Produced					
Surface	13,950,415	5.7%	29,069,299	5.0%	6
Underground	306,023	0.2%	2,978,168	0.7%	13
Lignite	0	0%	0	0%	0
Total	14,256,439	3.4%	32,047,467	2.9%	10
Number of Producing Mines					
Surface (bituminous coal)	95	2.8%	77	3.2%	7
Underground	4	0.1%	10	0.5%	11
Lignite (surface)	0	0%	0	0%	0
Total	99	1.6%	87	2.1%	8
Mine Production					
Average	144,004	202.6%	368,361	139.9%	
>1,000,000 tons	5	10.2%	10	4.8%	
300,000-1,000,000 tons	7	3.4%	23	6.8%	
<300,000 tons	87	1.5%	54	1.5%	



Active mining and reclamation¹⁶

	1978	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	Total
Number of New Permits																					
Surface Mining	181	156	152	208	81	57	94	48	25	30	30	18	17	11	12	7	10	17	13	15	1,182
Underground Mining	0	0	0	0	0	1	5	1	1	1	1	0	0	1	0	1	1	2	1	3	19
Other	0	0	0	0	0	2	11	5	0	3	2	2	0	0	2	5	1	2	0	1	36
Acres Permitted																					
Surface Mining	21,316	39,708	49,825	67,872	6,092	44,615	51,662	18,549	9,492	14,355	15,479	7,296	8,271	6,658	4,524	2,327	8,615	17,135	7,009	9,540	410,340
Underground Mining	0	0	0	0	0	6	642	19	175	310	527	0	0	507	0	624	321	482	49	1,031	4,693
Other	0	0	0	0	0	180	5,743	1,484	0	2,836	201	100	0	0	39	205	35	244	0	89	11,156
Acres of Bond Release																					
Interim Prog. (final)	0	0	0	0	1,030	7,987	5,265	4,611	1,292	1,551	913	2,138	1,057	570	0	0	0	0	0	0	26,405
Phase 1	0	0	0	0	0	0	0	617	3,444	5,096	4,789	5,151	2,966	3,246	4,241	3,718	2,929	4,790	4,548	7,734	53,269
Phase 2	0	0	0	0	0	0	0	0	0	3,666	3,370	5,769	2,549	1,999	2,561	2,395	3,176	2,997	3,777	4,814	37,073
Phase 3	0	0	0	0	0	0	0	0	0	0	0	0	0	23	459	341	1,160	2,591	1,635	3,517	3,725
Inspections																					
Complete	20	707	1,057	1,468	2,810	2,882	2,040	2,412	2,315	2,272	2,189	1,938	1,892	1,821	1,504	1,528	1,543	1,485	1,130	1,278	34,291
Partial	20	428	1,268	932	3,715	4,908	3,204	5,068	4,255	3,584	3,583	3,380	3,805	3,782	3,621	2,362	3,004	3,404	2,610	2,880	59,813
Oversight	0	0	0	0	0	286	258	334	NA	280	245	277	241	231	197	174	142	81	100	187	3,033
Citations Issued																					
NOV's	115	169	539	344	526	672	664	457	292	279	199	248	196	195	182	268	358	130	70	123	6,026
CO's	5	45	95	122	180	117	94	88	53	25	59	34	27	27	14	10	60	5	4	9	1,073

Abandoned coal mine reclamation 1977-1997¹⁷

	Reclaimed Problems			Remaining Problems	
	OSM Emergency	State Emergency	Non-Emergency	Number	Estimated Cost
Priority 1 & 2 (Protection of Public Health, Safety, and General Welfare) and Emergency Projects					
Clogged Streams (miles)	0	0	14.1	0	\$ 0
Clogged Stream Lands (acres)	0	0	121.0	0	0
Highwalls (feet)	380.0	0	103,304.2	2,150.0	1,105,123
Impoundments (count)	1.0	0	6.0	0	0
Piles & Embankments (acres)	0	0	679.8	378.1	4,724,900
Slides (acres)	1.4	1.0	0	0	0
Gases (count)	0	1.0	2.0	0	0
Equipment & Facilities (count)	0	0	94.0	5.0	100,000
Water Bodies (count)	0	0	3.0	2.0	376,600
Industrial Waste (acres)	0	0	22.9	0	0
Portals (count)	0	0	63.0	7.0	28,000
Polluted Water: Agriculture & Industrial (count)	0	0	6.0	0	0
Polluted Water: Human Consumption (count)	0	0	6.0	0	0
Subsidence (acres)	13.4	22.3	445.8	44.2	3,360,632
Surface Burning (acres)	0.4	0	5.0	0	0
Underground Mine Fires (acres)	0	0	0	0	0
Vertical Openings (count)	14	3.0	451.0	35.0	167,000
Total					\$ 9,862,255
Priority 3 (Environmental Restoration)					
Bench (acres)	0	0	0	0	\$ 0
Industrial Waste (acres)	0	0	68.1	9.2	68,890
Equipment & Facilities (count)	0	0	174.0	41.0	199,377
Gob (acres)	0	0	1,315.4	467.8	3,526,378
Highwall (feet)	0	0	5,375.0	7,555.0	365,505
Haul Road (acres)	0	0	163.0	72.0	235,572
Mine Opening (count)	0	0	25.0	21.0	62,250
Pit (acres)	0	0	54.5	199.0	281,333
Spoil Area (acres)	0	0	1,548.8	1,798.0	6,448,299
Slurry (acres)	0	0	714.0	795.0	6,571,000
Slump (acres)	0	0	2.0	5.0	5,000
Water (gallons/minute)	0	0	119.3	393.0	549,204
Total					\$ 18,312,808