

Tennessee

The most mines and coal production in a non-primacy state

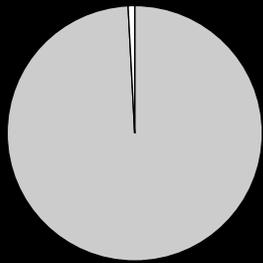
Tennessee's coal resources lie in 22 coal seams in 22 counties in the eastern portion of the state. Twelve seams are being mined at this time. Mining in the northern counties is primarily in steep slope areas of the Cumberland Mountains. The relatively flat terrain associated with the Cumberland Plateau makes area mining the most common production method in Tennessee's southern counties.

The state of Tennessee gained primacy August 10, 1982, when its regulatory program was conditionally approved, subject to the correction of certain deficiencies. On May 16, 1984, the Tennessee General Assembly repealed most of the Tennessee Coal Surface Mining Law of 1980, effective October 1, 1984. With this action, withdrawal of the state regulatory program was formalized, and on October 1, 1984, the Office of Surface Mining's Knoxville Field Office became the regulatory authority. Tennessee is not eligible to receive funds for an abandoned mine reclamation program because it no longer has an approved regulatory program. Accordingly, the Tennessee Abandoned Mine Lands Program does not receive federal Abandoned Mine Land grants. Since 1984, Abandoned Mine Land projects have been completed under cooperative agreements between the Office of Surface Mining and the state; emergency projects are completed by the Office of Surface Mining.

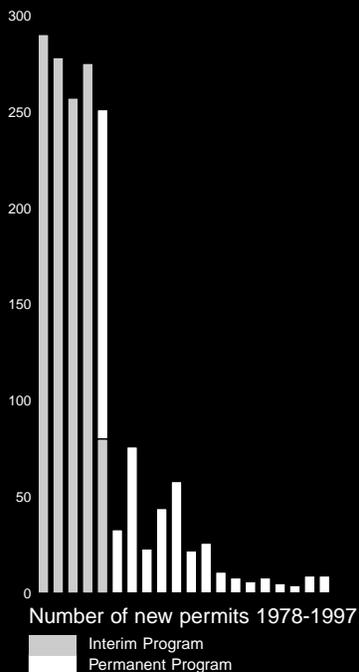
Since 1977, twelve emergencies have been abated in Tennessee by the Office of Surface Mining at a cost of \$3.7 million, with over 90 percent of the expenditures for eight landslide projects. During the same period, 51 high-priority projects were completed at a cost of \$19.6 million. The current inventory of unreclaimed high-priority hazards in Tennessee totals \$16.6 million. Since 1984, Tennessee has received approximately \$3.2 million through cooperative agreements to eliminate abandoned mine land hazards. Although subsidence problems are common in other Appalachian states, in Tennessee there were no subsidence problems, either emergency or high priority during the 20-year period, and no subsidence prone areas are identified in the inventory as unreclaimed.

coal production¹⁰

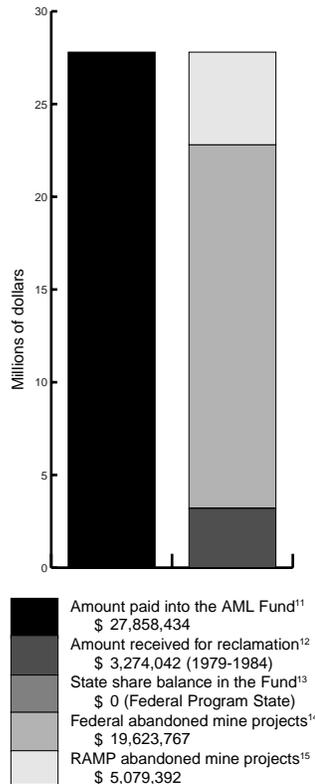
	1978		1997		1978-1997 Rank
	Amount	Percent U.S. Total	Amount	Percent U.S. Total	
Tons Produced					
Surface	3,946,396	1.6%	1,881,755	0.3%	19
Underground	3,108,387	2.0%	1,641,368	0.3%	10
Lignite	0	0%	0	0%	0
Total	7,054,784	1.6%	3,523,124	0.3%	17
Number of Producing Mines					
Surface (bituminous coal)	143	4.3%	28	1.1%	8
Underground	87	3.4%	23	1.9%	5
Lignite (surface)	1	0.5%	0	0%	6
Total	231	3.9%	61	1.4%	7
Mine Production					
Average	30,540	42.9%	57,756	21.9%	
>1,000,000 tons	0	0%	0	0%	
300,000-1,000,000 tons	1	0.4%	2	0.5%	
<300,000 tons	230	0.4%	59	1.6%	



Production tonnage 1978-1997
 U.S. Total
 Tennessee coal production



Number of new permits 1978-1997
 Interim Program
 Permanent Program



Amount paid into the AML Fund¹¹
 \$ 27,858,434
 Amount received for reclamation¹²
 \$ 3,274,042 (1979-1984)
 State share balance in the Fund¹³
 \$ 0 (Federal Program State)
 Federal abandoned mine projects¹⁴
 \$ 19,623,767
 RAMP abandoned mine projects¹⁵
 \$ 5,079,392

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	168	137	130	241	160	22	35	8	15	15	6	7	5	4	5	4	3	4	7	7	969
Underground Mining	4	14	12	28	71	9	30	6	16	14	14	3	3	1	3	1	0	1	2	3	230
Other	0	0	1	6	20	2	11	5	24	12	11	3	1	2	0	1	1	0	1	0	148
Acres Permitted																					
Surface Mining	5,995	5,435	4,076	3,988	6,982	1,121	1,909	1,021	1,009	2,669	1,064	606	523	350	834	1,221	379	1,623	1,422	5,021	47,248
Underground Mining	32	132	65	265	697	93	235	98	596	137	119	26	23	4	35	9	0	25	26	58	2,675
Other	0	0	35	113	468	51	307	33	249	332	215	224	50	115	0	107	32	0	118	0	2,447
Acres of Bond Release																					
Interim Prog. (final)	0	0	0	0	160	498	111	1,019	2,472	1,470	2,823	1,114	827	1,107	880	273	280	64	149	22	13,269
Phase 1	0	0	0	0	0	0	0	297	687	661	788	634	835	1,640	1,045	685	775	1,675	935	1,301	11,958
Phase 2	0	0	0	0	0	0	0	79	218	694	476	463	695	991	1,016	1,200	967	564	731	8,094	
Phase 3	0	0	0	0	0	113	7	7	0	0	87	45	793	272	389	591	1,448	1,141	423	5,118	10,434
Inspections																					
Complete	117	504	864	761	299	1,380	1,753	3,820	4,026	3,798	3,948	3,347	1,937	2,167	2,099	2,115	2,012	1,444	954	1,239	38,584
Partial	108	548	521	952	96	874	4,488	6,825	7,392	6,547	4,338	3,563	3,963	3,838	4,062	3,571	3,419	1,633	1,055	1,331	59,124
Oversight	0	0	0	0	NA	491	250	0	0	0	0	0	0	0	0	0	0	0	0	0	741
Citations Issued																					
NOV's	63	226	521	285	133	549	1,132	924	1,257	591	501	316	392	359	357	207	306	139	70	44	8,372
CO's	45	186	251	125	61	96	418	372	407	251	183	85	80	72	64	24	56	22	9	8	2,815

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	0	8.3	\$ 472,840
Clogged Stream Lands (acres)	0	0	147.0	0	0
Highwalls (feet)	500.0	0	45,215.0	36,360.0	4,352,700
Impoundments (count)	1.0	0	1.0	1.0	1,000
Piles & Embankments (acres)	0	0	866.1	774.5	3,270,801
Slides (acres)	13.5	0	61.8	93.0	4,310,000
Gases (count)	0	0	0	0	0
Equipment & Facilities (count)	0	0	35.0	46.0	555,000
Water Bodies (count)	0	0	30.0	52.0	1,136,000
Industrial Waste (acres)	0	0	11.0	8.0	31,000
Portals (count)	0	0	332.0	471.0	1,560,033
Polluted Water: Agriculture & Industrial (count)	0	0	1.0	10.0	560,000
Polluted Water: Human Consumption (count)	0	0	6.0	2.0	237,000
Subsidence (acres)	0.1	0	6.0	0	0
Surface Burning (acres)	1.7	0	27.5	1.0	80,000
Underground Mine Fires (acres)	0	0	0	0	0
Vertical Openings (count)	1.0	0	17.0	17.0	72,400
Total					\$ 16,638,774
Priority 3 (Environmental Restoration)					
Bench (acres)	0	0	76.0	1,746.0	\$ 3,056,840
Industrial Waste (acres)	0	0	0	2.0	5,000
Equipment & Facilities (count)	0	0	15.0	20.0	158,500
Gob (acres)	0	0	67.0	115.0	281,103
Highwall (feet)	0	0	130.0	42,651.0	3,349,000
Haul Road (acres)	0	0	8.0	466.0	758,375
Mine Opening (count)	0	0	0	48.0	137,001
Pit (acres)	0	0	47.5	982.7	2,254,305
Spoil Area (acres)	0	0	417.7	4,060.0	7,692,729
Slurry (acres)	0	0	0	1.0	1,500
Slump (acres)	0	0	3.0	0	0
Water (gallons/minute)	0	0	363.0	1,761.0	1,703,865
Total					\$ 19,398,218