

Appendix



United States Department of the Interior

Bruce Babbitt, *Secretary of the Interior*

Robert Armstrong, *Assistant Secretary for Land and Minerals Management*

Office of Surface Mining

Anne H. Shields, *Acting Director*

(COVER PHOTO) *Reclaimed mine land near Colstrip, Montana*

Because livestock grazing is the predominant land use in southeastern Montana, most land is reclaimed to rangeland. At this site, mining and reclamation occurred in the foreground as mining continues in the background. Reclamation of this native grassland included planting seed of many species of grasses, forbs, and shrubs. This was followed by planting containerized shrubs at a rate of 100-150 per acre. In some areas native trees have also planted.

**Office of Surface Mining
Annual Report
Fiscal Year
1993
Appendix**



**United States Department of the Interior
Office of Surface Mining Reclamation and Enforcement
Washington, D.C. 20240
January 1994**

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INTRODUCTION

The OSM Annual Report was compiled for the President and the Congress as required by Section 706 of the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The report describes the operations of the Interior Department's Office of Surface Mining Reclamation and Enforcement (OSM) for the period October 1, 1992, through September 30, 1993 -- Fiscal Year 1993¹. Included in this report are activities carried out under Title IV, Abandoned Mine Reclamation; Title V, Control of the Environmental Impacts of Surface Coal Mining; Title VI, Designation of Lands Unsuitable for Non-coal Mining; and Title VII, Administrative and Miscellaneous Provisions.

Each year OSM receives a number of requests for statistical information that describes SMCRA implementation (including mining, regulation, and reclamation) and the location of OSM and regulatory authority offices. Much of this information has been contained in the annual reports to Congress; however, those reports were printed in small quantities and received only limited distribution. To fill requests for this information from the public, pages in the annual report were copied and/or additional information was compiled. To eliminate this repetitive work and machine copying, OSM's 1993 annual report to Congress includes an Appendix that contains: 1. a state-by-state statistical summary of the past year's mining and reclamation activities, and 2. a list of the Office of Surface Mining and state regulatory authority/abandoned mine land program office locations. Although the annual report is still printed in limited quantities and distributed mainly to Congress and to those directly involved with implementing SMCRA, the appendix to the annual report is more widely available to the general public.

For information about OSM activities, news releases, and publications, or for additional copies of this report, contact:

Public Affairs
Office of Surface Mining
1951 Constitution Ave., NW
Washington, D.C. 20240
(202) 208-2553

1. Throughout this document, "1993" always refers to FY 1993, unless otherwise noted.

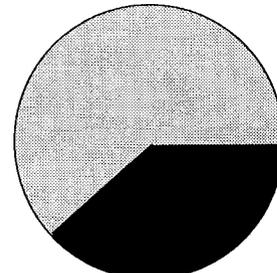
**TABLE A-1
COAL PRODUCTION¹**

State	1978-1993		199 Surface
	Total Production	U.S. Percent	
Alabama	405,485,576	2.9%	9,216,530
Alaska	18,857,454	.1%	1,671,223
Arkansas	2,565,543	.01%	76,984
California	305,065	.002%	0
Colorado	275,887,698	1.9%	8,717,987
Georgia	570,448	.004%	0
Illinois	941,332,089	6.7%	9,606,630
Indiana	492,034,576	3.5%	26,639,576
Iowa	7,461,738	.05%	159,914
Kansas	16,388,960	.1%	367,509
Kentucky	2,363,282,986	16.9%	63,873,239
Louisiana	22,989,022	.1%	3,136,224
Maryland	55,948,979	.4%	890,077
Missouri	70,448,573	.5%	1,045,587
Montana	492,237,152	3.5%	33,780,317
New Mexico	152,306,266	1.0%	13,817,022
North Dakota	374,450,555	2.6%	31,847,306
Ohio	561,105,713	4.0%	17,156,931
Oklahoma	55,295,526	.3%	1,566,661
Pennsylvania	1,192,898,760	8.5%	21,286,686
Tennessee	114,295,596	.8%	1,178,510
Texas	678,560,214	4.8%	54,382,248
Utah	254,137,605	1.8%	29,658
Virginia	632,477,678	4.5%	9,109,663
Washington	75,247,640	.5%	4,691,800
West Virginia	2,089,031,251	15.0%	44,355,567
Wyoming	2,168,888,561	15.5%	197,898,701
Crow Tribe	45,305,398	.3%	3,050,626
Hopi Tribe	38,533,106	.2%	3,193,795
Navajo Tribe	319,753,228	2.2%	21,568,675
Total	13,918,082,956	100.0%	584,315,646

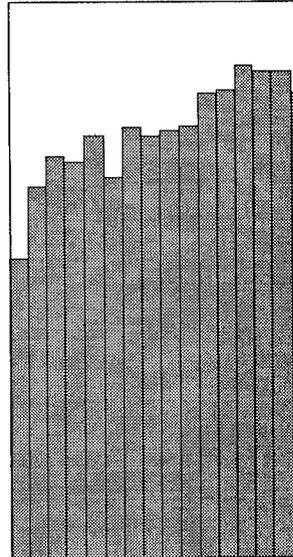


Coal Resources

Production <i>Underground</i>	1993 Production	
	<i>Total</i>	<i>U.S. Percent</i>
15,826,285	25,042,815	2.6%
0	1,671,223	.1%
0	76,984	.008%
0	0	0.0%
11,721,151	20,439,138	2.1%
0	0	0.0%
38,828,281	48,434,911	5.0%
1,321,314	27,960,890	2.9%
0	159,914	.01%
0	367,509	.03%
91,721,595	155,594,834	16.3%
0	3,136,224	.3%
2,370,837	3,260,914	.3%
0	1,045,587	.1%
11,553	33,791,870	3.5%
731,524	14,548,546	1.5%
0	31,847,306	3.3%
10,622,930	27,779,861	2.9%
73,821	1,640,482	.1%
39,842,324	61,129,010	6.4%
1,884,686	3,063,196	.3%
0	54,382,248	5.7%
21,734,784	21,764,442	2.2%
31,107,536	40,217,199	4.2%
0	4,691,800	.4%
99,513,299	143,868,796	15.0%
2,301,098	200,199,799	20.9%
0	3,050,626	.3%
0	3,193,795	.3%
0	21,568,675	2.2%
369,612,948	953,928,594	100.0%



1993 U.S. Production
 Surface Mining
 Underground Mining



U.S. Coal Production 1979-1993

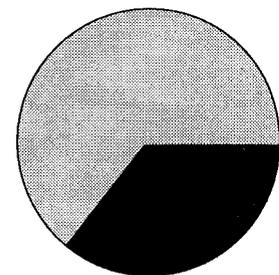
**TABLE A-2
NUMBER OF MINES²
1993**

State	Surface Mining	Underground Mining
Alabama	54	12
Alaska	1	0
Arkansas	6	0
California	0	0
Colorado	7	12
Georgia	0	0
Illinois	18	25
Indiana	53	3
Iowa	2	0
Kansas	2	0
Kentucky	234	338
Louisiana	2	0
Maryland	26	2
Missouri	4	0
Montana	7	1
New Mexico	5	1
North Dakota	6	0
Ohio	128	8
Oklahoma	15	1
Pennsylvania	500	96
Tennessee	11	17
Texas	15	0
Utah	1	19
Virginia	45	164
Washington	2	0
West Virginia	182	281
Wyoming	26	3
Crow Tribe	1	0
Hopi Tribe	2	0
Navajo Tribe	4	0
Total	1,359	983

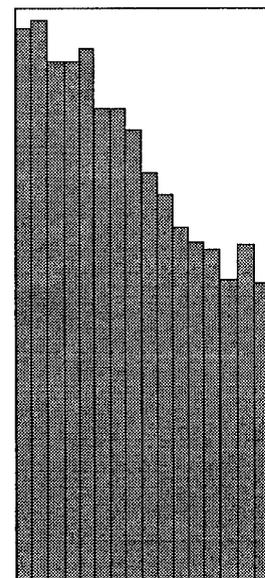
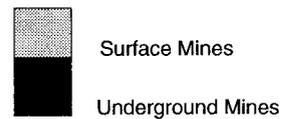


States with 1993 Coal Product

Total	U.S. Percent
66	2.8%
1	.04%
6	.2%
0	0.0%
19	.8%
0	0.0%
43	1.8%
56	2.3%
2	.08%
2	.08%
572	24.4%
2	.08%
28	1.1%
4	.1%
8	.3%
6	.2%
6	.2%
136	5.8%
16	.6%
596	25.4%
28	1.1%
15	.6%
20	.8%
209	8.9%
2	.08%
463	19.7%
29	1.2%
1	.04%
2	.08%
4	.1%
2,342	100.0%



1993 Number of Mines



Number of Mines 1978-1993

**TABLE A-3
PERMITS ISSUED AND BONDS RELEASED³
1993**

State	Number of Permits Approved						Acreage Permitted					
	New Permits			Renewals			New Permits			Renewals		
	Surface	Underground	Other	Surface	Underground	Other	Surface	Underground	Other	Surface	Underground	Other
Alabama	19	0	0	39	0	0	4,204	0	0	13,889	0	0
Alaska	1	0	0	0	0	0	131	0	0	0	0	0
Arkansas	0	1	0	1	0	0	0	71	0	40	0	0
California	0	0	0	0	0	0	0	0	0	0	0	0
Colorado	0	0	0	7	8	0	0	0	0	13,670	276	0
Georgia	0	0	0	0	0	0	0	0	0	0	0	0
Illinois	9	1	0	8	13	0	3,092	124	0	3,235	1,555	0
Indiana	7	1	5	9	0	0	2,326	623	204	15,986	0	0
Iowa	1	0	0	6	0	0	250	0	0	1,756	0	0
Kansas	1	0	0	0	0	0	1,528	0	0	0	0	0
Kentucky	63	64	14	23	46	7	14,698	39,597	1,049	10,280	43,062	1,792
Kentucky*	0	2	0	1	0	0	0	831	0	1,597	0	0
Louisiana	0	0	0	0	0	0	0	0	0	0	0	0
Maryland	1	1	0	2	0	2	72	5	0	185	0	8
Missouri	1	0	0	10	0	0	465	0	0	1,903	0	0
Montana	0	1	0	5	0	0	0	0	0	22,105	0	0
New Mexico	0	0	1	0	1	0	0	0	33	0	34	0
North Dakota	0	0	0	3	0	0	7,885	0	0	0	0	0
Ohio	76	5	1	25	1	14	6,361	1,622	5	8,077	541	390
Oklahoma	7	0	0	0	0	0	2,662	0	0	0	0	0
Pennsylvania	89	12	9	215	48	49	2,469	20	517	2,489	3	223
Tennessee	1	2	5	3	11	10	670	14	772	356	184	412
Texas	2	0	0	4	0	0	2,980	0	0	47,522	0	0
Utah	0	0	1	0	1	0	0	0	33	0	34	0
Virginia	14	14	9	26	23	7	3,230	147	157	5,427	167	375
Washington	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	56	55	30	123	243	239	12,062	996	2,240	31,843	8,649	11,046
Wyoming	0	0	0	6	1	0	0	0	0	575	0	0
Crow Tribe	0	0	0	1	0	0	0	0	0	3,257	0	0
Hopi Tribe	0	0	0	0	0	0	0	0	0	0	0	0
Navajo Tribe	0	0	0	0	0	0	0	0	0	0	0	0
Total	348	159	75	517	396	328	62,085	44,050	5,010	184,192	54,505	14,246

* Federal lands in Kentucky



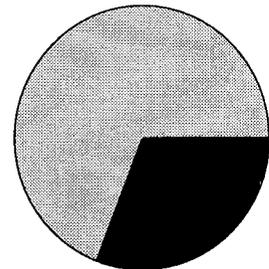
State Regulatory Programs

Bond Release

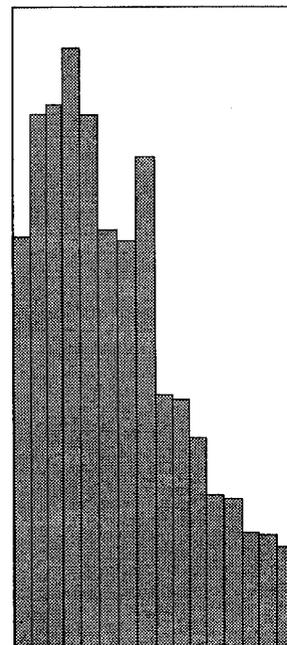
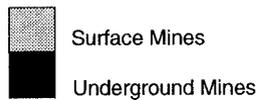
Number of Release Applications Approved

Acreage Released

Phase 1	Phase 2	Phase 3	Phase 1	Phase 2	Phase 3
41	27	30	3,330	2,005	1,984
0	0	0	0	0	0
2	1	8	41	42	186
0	0	1	0	0	39
1	0	0	105	0	0
0	0	0	0	0	0
18	7	6	982	175	140
40	38	19	3,718	2,395	1,160
0	0	0	0	0	0
0	2	2	0	142	387
542	483	319	1,437,872	1,363,679	966,771
1	3	0	16	303	0
1	0	0	711	0	0
3	11	11	57	351	171
7	3	2	1,111	377	30
0	0	0	0	0	0
0	1	1	0	4	4
4	1	3	397	95	109
197	297	181	6,532	11,551	6,502
10	19	17	1,495	3,285	2,397
405	320	346	14,796	14,894	16,681
10	17	22	685	1,016	591
0	1	2	0	181	400
0	1	1	0	4	4
13	79	46	Not Available	Not Available	1,454
0	0	0	0	0	0
151	95	178	8,428	3,409	5,740
0	1	3	0	656	165
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
1,446	1,407	1,198	1,480,276	1,404,564	1,004,915



1993 New Permits



Permits Issued 1978-1993

**TABLE A-4
STATE AND FEDERAL ENFORCEMENT ACTIONS⁴
1993**

State	INSPECTIONS		OSM
	Complete	State Partial	
Alabama	3,989	776	192
Alaska	17	32	8
Arkansas	138	274	23
California	0	0	15
Colorado	244	450	32
Illinois	447	989	82
Indiana	1,528	2,362	174
Iowa	112	224	26
Kansas	88	176	18
Kentucky	16,308	18,443	1,610
Louisiana	8	16	3
Maryland	535	947	88
Missouri	272	643	77
Montana	99	122	12
New Mexico	64	143	7
North Dakota	193	779	15
Ohio	3,131	4,755	300
Oklahoma	526	885	123
Pennsylvania	12,039	19,846	692
Tennessee	0	0	5,276
Texas	92	367	18
Utah	130	240	18
Virginia	3,994	4,205	469
Washington	0	0	38
West Virginia	9,926	16,735	693
Wyoming	195	311	25
Crow Tribe	0	0	12
Hopi Tribe****	0	0	90
Navajo Tribe****	-	-	-
Total	54,075	73,720	10,136

* Notices of Violation

** Failure To Abate Cessation Orders

*** Imminent Harm Cessation Orders

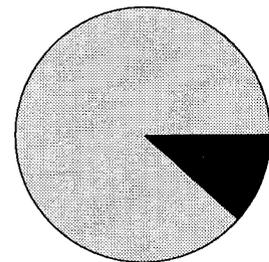
**** Information for Indian tribes in Arizona and New Mexico are combined when collected by the Albuquerque Field Office.



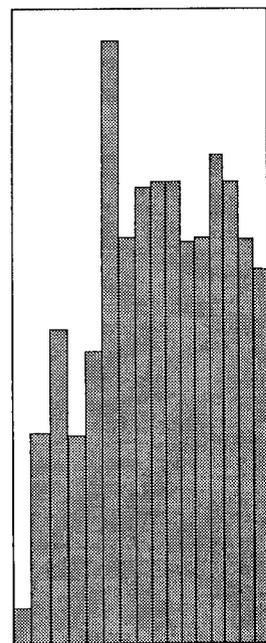
Federal Regulatory Programs

CITATIONS ISSUED

<i>NOV's*</i>	State <i>FTACO's**</i>	<i>IHCO's***</i>	<i>NOV's</i>	OSM <i>FTACO's</i>	<i>IHCO's</i>
330	43	12	0	0	0
5	0	0	0	0	0
5	0	0	0	0	0
0	0	0	0	0	0
129	4	1	2	1	0
58	1	0	0	0	0
268	9	1	1	2	0
38	1	0	0	0	0
8	7	0	1	0	0
1,509	263	12	50	5	4
2	0	1	0	0	0
78	21	0	1	1	0
48	1	0	0	0	0
12	1	1	0	0	0
14	0	0	0	0	0
4	0	0	0	0	0
458	67	12	0	0	1
90	21	3	3	1	2
1,999	138	0	8	7	0
0	0	0	207	20	4
39	0	0	1	0	0
73	4	1	1	0	0
335	37	16	5	1	0
0	0	0	0	0	0
2,851	383	41	28	7	0
19	0	0	1	0	1
0	0	0	0	0	0
0	0	0	15	0	0
-	-	-	-	-	-
8,372	1,001	101	324	45	12



1993 Citations Issued
 Notice of Violations
 Cessation Orders



Citations Issued 1978-1993

**TABLE A-5
ABANDONED MINE LAND RECLAMATION
(PRIORITY 1 & 2 ACCOMPLISHMENTS) 1978-1993⁵**

State	Clogged streams (Miles)	Clogged stream lands (Acres)	Dangerous highwalls (Lin. feet)	Dangerous impoundments (Count)	Dangerous piles & embankments (Acres)	Dangerous slides (Acres)	Gases: hazardous / explosive (Count)	Underground mine fires (Acres)	Hazardous equipment facilities (Count)
Alabama	2	0	75,165	1	29	8	0	0	44
Alaska	0	0	60	3	4	0	0	0	5
Arkansas	0	0	26,756	0	144	0	0	0	1
California	0	0	0	0	0	0	0	0	0
Colorado	0	0	50,342	0	7	0	0	59	1
Georgia	0	0	1,000	2	3	0	0	0	0
Illinois	13	545	9,764	6	89	0	15	0	163
Indiana	14	106	78,210	5	476	0	2	0	8
Iowa	1	217	36,175	1	485	0	0	0	6
Kansas	0	0	21,716	1	0	1	0	0	0
Kentucky	33	7,176	12,824	71	214	1,361	0	83	123
Louisiana	0	0	0	0	0	0	0	0	0
Maryland	3	41	26,680	0	99	17	0	0	15
Michigan	0	0	950	0	0	0	0	0	5
Missouri	8	1,129	37,917	4	157	0	0	0	11
Montana	3	2	200	2	83	1	0	60	18
New Mexico	0	0	0	0	2	0	0	0	10
North Dakota	0	0	17,496	4	168	0	0	0	14
Ohio	9	3853	14,828	4	55	261	0	0	31
Oklahoma	0	0	82,111	0	0	1	0	0	0
Pennsylvania	10	96	224,806	13	339	0	0	650	18
Tennessee	0	147	16,755	0	200	23	0	0	2
Texas	0	0	1,600	0	1,016	0	0	0	0
Utah	11	0	2,925	1	97	0	19	17	13
Virginia	46	558	5,683	7	201	130	0	0	13
Washington	0	0	0	0	2	0	0	0	0
West Virginia	25	147	111,871	120	2,031	248	1	18	19
Wyoming	0	0	9,011	1	503	0	0	0	1
Crow Tribe	0	0	650	0	33	22	0	0	0
Hopi Tribe	0	0	12,002	0	0	0	0	0	0
Navajo Tribe	0	0	0	1	1	7	0	0	0
CERT*	1	0	5,070	0	354	0	0	0	0
Total	179	14,178	882,567	247	6,792	2,080	37	887	1,86

*The Council of Energy Resources Tribes include: Blackfeet, Cheyenne River Sioux, Mandan, Hidatsa, and Arikara; Assiniboine and Sioux; Northern Cheyenne; Jicarilla Apache; Laguna Pueblo

Hazardous water bodies (Count)	Industrial/residential waste (Acres)	Portals (Count)	Polluted water: agri/ind (Count)	Polluted water: human use (count)	Subsidence (Acres)	Surface burning (Acres)	Vertical opening (Count)
23	20	737	0	9	10	49	243
0	3	6	0	0	0	0	3
2	11	3	0	0	0	2	54
0	0	0	0	0	0	0	1
0	1	437	1	0	42	12	220
0	0	67	0	1	1	0	6
0	12	81	0	0	6	10	231
3	21	41	6	6	16	2	246
24	1	0	12	0	1	0	8
0	2	0	1	0	22	3	5
16	48	1,056	5	2,149	51	184	57
0	0	0	0	0	0	0	0
9	15	17	3	1	9	0	1
2	0	0	0	0	1	8	12
4	69	3	20	13	0	16	21
0	74	696	18	12	529	40	416
0	0	97	1	0	26	32	44
14	2	13	3	0	844	1	61
4	34	103	0	163	40	72	107
51	0	60	0	0	13	0	41
39	12	188	2	2	1,676	61	247
9	11	139	0	4	5	1	10
0	0	2	0	0	0	0	19
0	2	465	2	0	2	34	23
1	0	409	0	0	2	25	44
0	0	26	0	0	1	0	35
1	12	1,095	7	5	145	246	45
0	1	192	0	0	277	9	221
0	0	4	1	0	16	0	4
0	0	9	0	0	0	0	2
0	0	140	0	0	5	3	7
30	5	72	0	0	35	0	18
232	356	6,158	82	2,365	3,775	810	2,452

Chippewa and Cree; San Carlos Apache; Southern Ute; Uintah and Ouray; Ute Mountain Ute; White Mountain Apache; and the Arapaho and Shoshone.

**TABLE A-6
RURAL ABANDONED MINE PROGRAM (RAMP) RECLAMATION
(PRIORITY 1 & 2 ACCOMPLISHMENTS) 1978-1993⁶**

State	Clogged streams (Miles)	Clogged stream lands (Acres)	Dangerous highwalls (Lin. feet)	Dangerous impoundments (Count)	Dangerous piles & embankments (Acres)	Dangerous slides (Acres)	Gases: hazardous / explosive (Count)	Underground mine fires (Acres)	Hazardous equipment facilities (Count)
Alabama	0	0	58,300	4	741	31	0	0	
Alaska	0	0	0	0	0	0	0	0	
Arkansas	0	0	28,920	2	1,326	100	0	0	
California	0	0	0	0	0	0	0	0	
Colorado	0	0	0	0	0	0	0	0	
Georgia	0	0	0	0	0	0	0	0	
Illinois	0	0	10,900	1	79	6	0	0	2
Indiana	0	0	874	0	46	0	0	0	
Iowa	0	74	18,200	0	38	0	0	0	
Kansas	1	0	1,400	0	1	0	0	0	
Kentucky	0	0	6,850	8	1,433	0	0	0	
Louisiana	0	0	0	0	0	0	0	0	
Maryland	0	0	24,250	1	3	0	0	0	
Missouri	0	84	0	0	62	0	0	0	
Montana	0	0	0	0	0	0	0	0	
New Mexico	0	0	0	0	0	0	0	0	
North Dakota	0	0	400	0	0	0	0	0	
Ohio	1	1,036	24,420	2	232	25	0	0	2
Oklahoma	0	0	21,564	0	144	45	0	0	
Pennsylvania	2	0	86,224	22	777	23	1	0	6
Tennessee	0	0	15,887	1	272	2	0	0	
Texas	0	0	0	0	0	0	0	0	
Utah	0	0	0	0	0	0	0	0	
Virginia	1	0	0	0	17	10	0	0	
Washington	0	0	0	0	0	0	0	0	
West Virginia	1	0	10,530	2	710	0	0	0	1
Wyoming	0	0	1,600	0	0	0	0	1	
Crow Tribe	0	0	0	0	0	0	0	0	
Hopi Tribe	0	0	0	0	0	0	0	0	
Navajo Tribe	0	0	0	0	0	0	0	0	
CERT*	0	1	0	0	21	0	0	0	
Total	6	1,195	310,319	43	5,902	242	1	1	13

*The Council of Energy Resources Tribes include: Blackfeet, Cheyenne River Sioux, Mandan, Hidatsa, and Arikara; Assiniboine and Sioux; Northern Cheyenne; Jicarilla Apache; Laguna Pueblo

Hazardous water bodies (Count)	Industrial/residential waste (Acres)	Portals (Count)	Polluted water: agri/ind (Count)	Polluted water: human use (count)	Subsidence (Acres)	Surface burning (Acres)	Vertical opening (Count)
15	1	2	1	1	0	2	0
0	0	0	0	0	0	0	0
9	132	6	0	0	23	0	6
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
2	18	5	1	1	24	0	14
0	4	37	0	0	18	0	85
5	0	0	18	0	0	10	1
0	0	0	0	0	0	0	0
0	0	44	0	0	14	0	1
0	0	0	0	0	0	0	0
6	4	13	0	0	3	0	0
0	0	0	0	1	0	0	1
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	118	0	0
29	1	12	0	1	1	1	27
5	0	0	0	0	0	0	0
10	7	192	3	0	8	8	20
18	0	50	0	0	0	0	4
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	14	0	0	0	0	0
0	0	0	0	0	0	0	0
3	0	150	0	0	12	18	3
0	0	25	0	0	1	1	321
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	3	0	0	3	0	2
102	167	553	23	4	225	40	485

Chippewa and Cree; San Carlos Apache; Southern Ute; Uintah and Ouray; Ute Mountain Ute; White Mountain Apache; and the Arapaho and Shoshone.

**TABLE A-7
ABANDONED MINE LAND RECLAMATION
(PRIORITY 3 ACCOMPLISHMENTS) 1978-1993⁷**

State	Bench (Acres)	Industrial/ residential waste (Acres)	Equipment facilities (Count)	Gob piles (Acres)	Highwalls (Lin. feet)	Haul roads (Acres)
Alabama	1	6	7	84	13,625	0
Alaska	0	0	0	7	0	0
Arkansas	0	0	0	0	0	0
California	0	0	0	0	0	0
Colorado	1	5	7	62	2,028	0
Georgia	0	0	0	3	0	0
Illinois	1	12	79	1,827	510	41
Indiana	0	40	70	723	1,000	132
Iowa	0	0	0	1	0	5
Kansas	0	0	1	87	3,000	0
Kentucky	603	0	51	195	2,000	1
Louisiana	0	0	0	0	0	0
Maryland	0	0	1	21	3,650	1
Michigan	0	0	1	21	0	1
Missouri	0	3	4	68	8,624	1
Montana	6	64	77	233	1,670	3
New Mexico	1	0	6	27	0	0
North Dakota	0	0	0	0	0	0
Ohio	0	0	3	63	9,220	0
Oklahoma	0	0	0	0	0	0
Pennsylvania	0	0	5	21	5,400	0
Tennessee	76	0	2	48	130	8
Texas	0	0	0	8	0	0
Utah	4	7	58	229	550	3
Virginia	1	3	36	20	0	4
Washington	0	0	0	0	0	0
West Virginia	0	0	0	23	1,000	0
Wyoming	0	11	3	30	1,300	1
Crow Tribe	2	0	0	9	250	4
Hopi Tribe	0	0	0	19	551	15
Navajo Tribe	0	1	2	100	0	0
CERT*	0	0	2	4	1,500	0
Total	696	152	415	3,933	56,008	220

*The Council of Energy Resources Tribes include: Blackfeet, Cheyenne River Sioux, Mandan, Hidatsa, and Arikara; Assiniboine and Sioux; Northern Cheyenne; Jicarilla Apache; Laguna Pueblo

Mine openings	Pits	Spoil area	Slurry	Slump	Water problems
(Count)	(Acres)	(Acres)	(Acres)	(Acres)	(Gal/min)
10	1	4,552	30	1	30
0	0	0	9	25	0
0	0	0	0	0	0
0	0	0	0	0	0
18	76	847	0	0	1
0	0	0	0	0	0
73	148	1,811	816	0	236
11	6	1,139	197	2	26
1	24	445	0	0	0
0	17	255	0	222	0
68	3	955	58	10	0
0	0	0	0	0	0
0	0	212	0	1	70
0	1	10	0	11	0
0	453	452	57	1	86
55	34	846	0	21	273
0	2	1	2	0	0
0	0	0	0	0	0
19	17	391	0	0	0
0	0	0	0	0	0
3	31	610	1	1	487
0	47	293	0	3	194
0	0	152	0	0	0
0	6	49	1	16	20
20	0	0	0	0	10
0	0	0	0	0	0
1	0	1	0	0	2
4	10	385	0	0	400,002
0	3	4	0	0	0
0	10	10	0	0	0
12	15	141	0	0	0
1	7	80	0	0	0
296	911	13,641	1,171	314	401,437

Chippewa and Cree; San Carlos Apache; Southern Ute; Uintah and Ouray; Ute Mountain Ute; White Mountain Apache; and the Arapaho and Shoshone.

**TABLE A-8
RURAL ABANDONED MINE PROGRAM (RAMP) RECLAMATION
(PRIORITY 3 ACCOMPLISHMENTS) 1978-1993⁸**

State	Bench (Acres)	Industrial/ residential waste (Acres)	Equipment facilities (Count)	Gob piles (Acres)	Highwalls (Lin. feet)	Haul roads (Acres)
Alabama	0	0	0	0	0	0
Alaska	0	0	0	0	0	0
Arkansas	0	0	0	0	0	0
California	0	0	0	0	0	0
Colorado	0	0	0	0	0	0
Georgia	0	0	0	0	0	0
Illinois	0	0	0	4	0	0
Indiana	0	1	4	1	1	0
Iowa	0	0	0	0	0	0
Kansas	0	0	0	0	0	0
Kentucky	0	0	0	0	300	0
Louisiana	0	0	0	0	0	0
Maryland	0	0	0	0	0	0
Missouri	0	0	0	0	0	0
Montana	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0
North Dakota	0	0	0	0	0	0
Ohio	0	0	0	0	0	0
Oklahoma	0	0	0	0	0	0
Pennsylvania	0	0	0	0	0	0
Tennessee	0	0	0	0	0	0
Texas	0	0	0	0	0	0
Utah	0	0	0	0	0	0
Virginia	0	0	0	0	0	0
Washington	0	0	0	0	0	0
West Virginia	0	0	0	0	0	0
Wyoming	0	0	0	2	0	0
Crow Tribe	0	0	0	0	0	0
Hopi Tribe	0	0	0	0	0	0
Navajo Tribe	0	0	0	0	0	0
CERT*	0	0	0	0	0	0
Total	0	1	4	7	301	0

*The Council of Energy Resources Tribes include: Blackfeet, Cheyenne River Sioux, Mandan, Hidatsa, and Arikara; Assiniboine and Sioux; Northern Cheyenne; Jicarilla Apache; Laguna Pueblo;

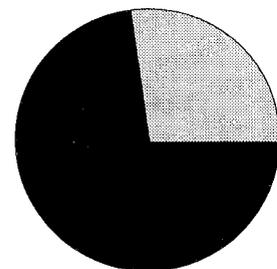
Mine openings (Count)	Pits (Acres)	Spoil area (Acres)	Slurry (Acres)	Slump (Acres)	Water problems (Gal/min)
0	1	95	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
4	0	16	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	1	9	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	193	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	46	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
4	2	359	0	0	0

Chippewa and Cree; San Carlos Apache; Southern Ute; Uintah and Ouray; Ute Mountain Ute; White Mountain Apache; and the Arapaho and Shoshone.

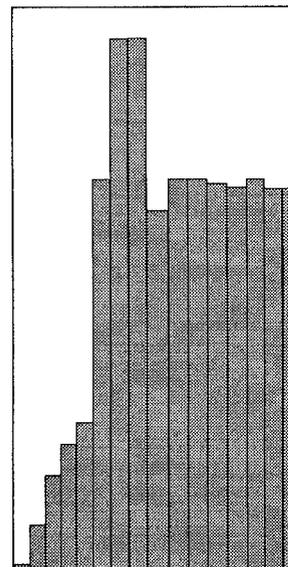
**TABLE A-9
PROGRAM FUNDING⁹
1993**

State	Regulatory Grants	OSM Projects and Emergencies	SOAP
Alabama	\$991,937	\$0	\$0
Alaska	194,321	0	0
Arkansas	164,803	0	0
California	0	0	0
Colorado	1,270,802	6,768	0
Georgia	0	135,673	0
Illinois	2,429,472	0	0
Indiana	1,611,393	299,610	0
Iowa	155,644	5,088	0
Kansas	103,337	0	0
Kentucky	13,043,352	5,477,754	500,000
Louisiana	201,347	0	0
Maryland	479,589	520,659	50,000
Michigan	0	129,984	0
Mississippi	75,565	0	0
Missouri	427,979	59,278	0
Montana	850,037	0	0
New Mexico	735,625	0	0
North Dakota	517,329	8,320	0
Ohio	2,964,699	345,431	264,000
Oklahoma	930,782	9,315	10,000
Pennsylvania	10,087,400	3,002,847	1,400,000
South Dakota	0	47,000	0
Tennessee	0	803,127	0
Texas	1,140,988	0	0
Utah	1,468,025	0	0
Virginia	2,947,672	0	10,000
Washington	0	642,008	0
West Virginia	6,919,241	0	140,000
Wyoming	1,871,672	1,617	0
Crow Tribe	0	0	0
Hopi Tribe	0	0	0
Navajo Tribe	0	0	0
Total	\$51,583,011	\$11,494,479	\$2,374,000

AML Grants	Civil Penalty Funded Projects	Total	AML Fees Collected
\$4,133,901	\$0	\$5,125,838	\$5,513,618
2,532,876	0	2,727,197	541,881
1,942,272	0	2,107,075	24,100
0	0	0	3,245
2,035,000	0	3,312,570	4,709,060
0	0	135,673	0
9,019,395	0	11,448,867	10,417,805
7,173,000	0	9,084,003	9,517,464
2,045,225	0	2,205,957	79,493
4,389,718	0	4,493,055	119,294
14,728,663	333,725	34,083,494	36,176,437
82,454	0	283,801	320,065
2,480,325	0	3,530,573	632,975
0	0	129,984	0
0	0	75,565	0
2,902,892	0	3,390,149	582,568
5,593,759	0	6,443,796	12,034,553
1,870,788	0	2,606,413	4,755,005
1,991,038	0	2,516,687	3,210,644
10,693,976	0	14,268,106	7,594,194
2,080,378	0	3,030,475	580,866
48,752,573	0	63,242,820	14,022,652
0	0	47,000	0
0	0	803,127	759,989
3,374,562	0	4,515,550	5,579,823
2,094,528	0	3,562,553	3,188,808
6,414,210	0	9,371,882	8,173,723
0	0	642,008	1,623,218
29,658,322	0	36,717,563	31,830,678
18,174,995	0	20,048,284	66,617,485
2,006,000	0	2,006,000	1,066,973
143,388	0	143,388	825,979
6,256,699	0	6,256,699	7,671,378
\$192,570,939	\$333,725	\$258,356,152	\$238,153,436



1993 Grant Appropriations



Grant Appropriations 1978-1993

OFFICE OF SURFACE MINING DIRECTORY

OSM Headquarters

Anne H. Shields, Acting Director
1951 Constitution Ave., NW
Washington, DC 20240
(202) 208-4006

Albuquerque Field Office

(California, Colorado, New Mexico, Utah, Navajo and Hopi)
Robert Hagen, Director
505 Marquette Ave., NW, Suite 1200
Albuquerque, NM 87102
(505) 766-1486

AVS Field Investigation Branch

Bernadine Thompson, Chief
1300 New Circle Road, NE, Suite 100
Lexington, KY 40505-4215
(606) 233-2792

Ashland Area Office

Jack Holbrook, Manager
Federal Bldg., Rm. 120
1405 Greenup Avenue, Box 5
Ashland, KY 41101
(606) 324-2828

Beckley Area Office

Jackie Nelson, Manager
323 Harper Park Dr.
Beckley, WV 25801
(304) 255-5265

Big Stone Gap Field Office

(Virginia)
Robert Penn, Director
P.O. Drawer 1216
Big Stone Gap, VA 24219
(703) 523-4303

Birmingham Field Office

(Alabama, Georgia, and Mississippi)
Jesse Jackson, Jr., Director
135 Gemini Circle, Suite 215
Homewood, AL 35209
(205) 290-7282

Casper Field Office

(Alaska, Idaho, Montana, North Dakota, South Dakota, Oregon, and Washington)
Guy Padgett, Director
100 East B St., Rm. 2128
Casper, WY 82601-1918
(307) 261-5776

Charleston Field Office

(West Virginia)
Jim Blankenship, Director
603 Morris Street
Charleston, WV 25301
(304) 347-7158

Columbus Field Office

(Ohio, Michigan)
Richard Seibel, Director
4480 Refugee Road
Columbus, OH 43232
(614) 866-0578

Eastern Support Center

Carl Close, Assistant OSM Director
Ten Parkway Center
Pittsburgh, PA 15220
(412) 937-2828

Harrisburg Field Office

(Massachusetts, Maryland, Pennsylvania, and Rhode Island)
Robert Biggi, Director
Harrisburg Transportation Center
3rd Floor, Suite 3C
4th and Market Streets
Harrisburg, PA 17101
(717) 782-4036

Indianapolis Field Office

(Indiana)
Roger Calhoun, Director
575 North Penn St., Rm. 301
Indianapolis, IN 46204
(317) 226-6700

Johnstown Area Office

Joe Geissinger, Manager
Penn Traffic Bldg., Rm. 360
319 Washington St.
Johnstown, PA 15901
(814) 533-4223

Kansas City Field Office

(Iowa, Kansas, and Missouri)
Jerry Ennis, Director
934 Wyandotte St., Rm. 500
Kansas City, MO 64105
(816) 374-6405

Knoxville Field Office

(Georgia, North Carolina, and Tennessee)
George Miller, Director
530 Gay St., Suite 500
Knoxville, TN 37902
(615) 545-4103

Lexington Field Office

(Kentucky)
Bill Kovacic, Director
2675 Regency Road
Lexington, KY 40503
(606) 233-2896

Logan Area Office

Sam Turner, Manager
603 Morris Street
Charleston, WV 25301
(304) 347-5562

London Area Office

Patrick Angel, Manager
P.O. Box 1048
London, KY 40741
(606) 878-6440

Madisonville Area Office

Michael Vaughn, Manager
100 YMCA Drive
Madisonville, KY 42431
(502) 825-4500

Morgantown Area Office

Charles Sheets, Manager
Room 229, Federal Bldg.
75 High Street
P.O. Box 886
Morgantown, WV 26507-0886
(304) 291-4004

Norris Area Office

Herbie Johnson, Manager
P.O. Box 179
Norris, TN 37828
(615) 632-1730

Olympia Area Office

Glenn Waugh, Manager
711 South Capitol Way, Suite 703
Olympia, WA 78501
(206) 753-9538

Prestonsburg Area Office

Peter Hackney, Manager
P.O. Box 306
West Prestonsburg, KY 41668
(606) 886-1391

Springfield Field Office

(Illinois)
James Fulton, Director
511 West Capitol Ave., Suite 202
Springfield, IL 62704
(217) 492-4495

Tulsa Field Office

(Arkansas, Louisiana, Oklahoma, and Texas)
James Moncrief, Director
5100 E. Skelly Dr., Suite 550
Tulsa, OK 74135-6548
(918) 581-6430

Western Support Center

Raymond L. Lowrie, Assistant OSM Director
1020 15th Street, 2nd Floor
Denver, CO 80202
(303) 844-2459

Wilkes-Barre Area Office

Patricia Acker, Manager
20 N. Penn Ave., Room 3323
Wilkes-Barre, PA 18701
(717) 826-6333

STATE REGULATORY AUTHORITY DIRECTORY

ALABAMA

Randall C. Johnson, Director
Alabama Surface Mining Commission
P.O. Box 2390
Jasper, Alabama 35502-2390
(205) 221-4130

ALASKA

Samuel M. Dunaway, Jr.
Surface Mining Manager
Division of Mining
Department of Natural Resources
P.O. Box 107016
Anchorage, Alaska 99510-7016
(907) 762-2168

ARKANSAS

Randall Mathis, Director
Department of Pollution Control and Ecology
P.O. Box 8913
8001 National Drive
Little Rock, Arkansas 72219-8913
(501) 562-4632

COLORADO

Michael B. Long, Director
Division of Minerals and Geology
Department of Natural Resources
1313 Sherman Street, Room 215
Denver, Colorado 80203
(303) 866-3567

ILLINOIS

Ronald E. Morse, Director
Department of Mines and Minerals
300 W. Jefferson Street, Suite 300
P.O. Box 10137
Springfield, Illinois 62791-0137
(217) 782-6791

INDIANA

Patrick R. Ralston, Director
Department of Natural Resources
402 W. Washington Street, Room W264
Indianapolis, Indiana 46204
(317) 232-4020

IOWA

James B. Gulliford, Director
Department of Agriculture & Land Stewardship
Division of Soil Conservation
Wallace State Office Building
Des Moines, Iowa 50319
(515) 281-6146

KANSAS

Larry Knoche, Director
Bureau of Remediation
Department of Health & Environment
Forbes Field, Bldg. 740
Topeka, Kansas 66620
(913) 296-0077

KENTUCKY

Phillip J. Shepherd, Secretary
Natural Resources and Environmental Protection
Cabinet
5th Floor, Capital Plaza
Frankfort, Kentucky 40601
(502) 564-3350

LOUISIANA

Tony Duplechin
Department of Natural Resources
Office of Conservation
Injection and Mining Division
P.O. Box 94725
Baton Rouge, Louisiana 70804-9275
(504) 342-5515

MARYLAND

Anthony Abar, Director
Bureau of Mines
160 S. Water St.
Frostburg, Maryland 21532
(301) 689-8150

MISSISSIPPI

James I. Palmer, Jr., Executive Director
Department of Environmental Quality
2380 Highway 80 West
P.O. Box 20307
Jackson, Mississippi 39289-3107
(601) 961-5099

MISSOURI

Charles Stieffermann, Staff Director
Land Reclamation Program
Department of Natural Resources
Jefferson State Office Building
P.O. Box 176
Jefferson City, Missouri 65102
(314) 751-4041

MONTANA

Gary Amestoy, Administrator
Reclamation Division
Department of State Lands
Capitol Station
1625 Eleventh Avenue
Helena, Montana 59620
(406) 444-2074

NEW MEXICO

John Lingo, Acting Director
Mining and Minerals Division
Energy, Minerals and Natural Resources Department
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-5974

NORTH DAKOTA

Edward J. Englerth, Director
Reclamation Division
North Dakota Public Service Commission
Capitol Building
Bismarck, North Dakota 58505
(701) 224-4086

OHIO

Glen G. Kizer, Chief
Division of Reclamation
Department of Natural Resources
1855 Fountain Square, Bldg. H
Columbus, Ohio 43224
(614) 265-6675

OKLAHOMA

James Hamm, Acting Director
AML Program
Oklahoma Conservation Commission
4040 N. Lincoln Blvd., Suite 107
Oklahoma City, Oklahoma 73105
(405) 521-3859

PENNSYLVANIA

Terry Fabian, Deputy Secretary
for Mineral Resources Management
P.O. Box 2357
Harrisburg, Pennsylvania 17105-2357
(717) 783-9186

TEXAS

Melvin B. Hodgkiss, Director
Surface Mining and Reclamation Division
Railroad Commission of Texas
P.O. Drawer 12967 Capitol Station
Austin, Texas 78711-2967
(512) 463-6900

UTAH

James W. Carter, Director
Utah Division of Oil, Gas, and Mining
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, Utah 84180-1230
(801) 538-5340

VIRGINIA

O. Gene Dishner, Director
Department of Mines, Minerals and Energy
2201 West Broad Street
Richmond, Virginia 23220
(804) 367-0330

WEST VIRGINIA

David C. Callaghan, Commissioner
Department of Environmental Protection
10 McJunkin Road
Nitro, West Virginia 25143
(304) 558-0800

WYOMING

Dennis Hemmer, Director
Department of Environmental Quality
Herschler Bldg - 4th Floor West
122 West 25th Street
Cheyenne, Wyoming 82002
(307) 777-7938

CROW TRIBE

Clara Nomee, Chairperson
Crow Abandoned Mine Lands Program
P. O. Box 460
Crow Agency, Montana 59022
(406) 638-2601

HOPI TRIBE

Arnold Taylor, Sr., Manager
Hopi Abandoned Mine Land Program
P. O. Box 123
Kykotsmovi, Arizona 86039
(602) 734-2441

NAVAJO NATION

Ken Bahe, Reclamation Specialist
Minerals Department
Division of Natural Resources
P.O. Box 308
Window Rock, Arizona 86515
(602) 871-7196

STATE ABANDONED MINE LAND RECLAMATION PROGRAM DIRECTORY

ALABAMA

Thomas J. Ventress, Administrator
State Programs Division
Alabama Department of Industrial Relations
649 Monroe Street
Montgomery, Alabama 36131-5200
(205) 242-8265

ALASKA

Samuel M. Dunaway, Jr.
Surface Mining Manager
Division of Mining
Department of Natural Resources
P.O. Box 107016
Anchorage, Alaska 99510-7016
(907) 762-2168

ARKANSAS

Floyd G. Durham, Chief
Department of Pollution Control and Ecology
P.O. Box 8913
8001 National Drive
Little Rock, Arkansas 72219-8913
(501) 562-4632

COLORADO

David L. Bucknam, Program Administrator
Department of Natural Resources
Division of Mined Land Reclamation
1313 Sherman Street, Room 215
Denver, Colorado 80203
(303) 866-3567

ILLINOIS

Tim Hickmann, Executive Director
Abandoned Mine Lands Reclamation Council
928 South Spring Street
Springfield, Illinois 62704
(217) 782-0588

INDIANA

John Allen, Assistant Director-Restoration
Department of Natural Resources
Division of Reclamation
P. O. Box 147
Jasonville, Indiana 47438
(812) 665-2207

IOWA

Kenneth Tow, Chief
Mines and Minerals Bureau
Division of Soil Conservation
Wallace State Office Building
East 9th and Grand Street
Des Moines, Iowa 50319
(515) 281-6147

KANSAS

Murray J. Balk, Mining Section Chief
Surface Mining Section
Department of Health & Environment
4th Floor - Shirk Hall
Pittsburg State University
P.O. Box 1418
Pittsburg, Kansas 66762
(316) 231-8615

KENTUCKY

Paul Rothman, Director
Division of Abandoned Lands
Department for Surface Mining Reclamation
and Enforcement
618 Teton Trail
Frankfort, Kentucky 40601
(502) 564-2141

LOUISIANA

Tony Duplechin
Department of Natural Resources
Office of Conservation
Injection and Mining Division
P.O. Box 94725
Baton Rouge, Louisiana 70804-9275
(504) 342-5515

MARYLAND

John Eilers, Chief, AML Section
Maryland Bureau of Mines
69 Hill Street
Frostburg, Maryland 21532
(301) 689-4136

MISSISSIPPI

James I. Palmer, Jr., Executive Director
Department of Environmental Quality
2380 Highway 80 West
P.O. Box 20307
Jackson, Mississippi 39289-3107
(601) 961-5099

MISSOURI

Daniel R. Schuette, Section Chief
AML Section Land Reclamation Program
Department of Natural Resources
Division of Environmental Quality
205 Jefferson Street
P.O. Box 176
Jefferson City, Missouri 65102
(314) 751-4041

MONTANA

Vic Anderson, Chief
Abandoned Mine Reclamation Bureau
Department of State Lands
Capitol Section
1625 Eleventh Avenue
Helena, Montana 59620
(406) 444-2074

NEW MEXICO

Bob Evetts, AML Program Manager
Mining and Minerals Division
Energy, Minerals and Natural Resources Department
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-5970

NORTH DAKOTA

Lou Ogaard, Director
AML Division
North Dakota Public Service Commission
State Capitol
Bismarck, North Dakota 58505
(701) 224-4086

OHIO

Robert Baker, AML Manager
Division of Reclamation
Department of Natural Resources
1855 Fountain Square, Bldg H-2
Columbus, Ohio 43224
(614) 265-1092

OKLAHOMA

Michael L. Kastl, Program Director
AML Program
Oklahoma Conservation Commission
2800 N. Lincoln Blvd., Suite 160
Oklahoma City, Oklahoma 73105
(405) 521-2384

PENNSYLVANIA

Richard Bielicki, Director
Bureau of Abandoned Mine Reclamation
Department of Environmental Resources
P.O. Box 1467
Harrisburg, Pennsylvania 17105-1467
(717) 783-2267

TEXAS

Melvin B. Hodgkiss, Director
Surface Mining and Reclamation Division
Railroad Commission of Texas
P.O. Drawer 12967 Capitol Station
Austin, Texas 78711-2967
(512) 463-6900

UTAH

Mary Ann Wright, Administrator
Abandoned Mine Reclamation Program
Utah Division of Oil, Gas and Mining
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, Utah 84180-1230
(801) 538-5340

VIRGINIA

Roger L. Williams, AML Manager
Department of Mines, Minerals and Energy
Division of Mined Land Reclamation
P.O. Drawer U
622 Powell Avenue
Big Stone Gap, Virginia 24219
(703) 523-8208

WEST VIRGINIA

James E. (Pete) Pitsenbarger, Chief
Abandoned Mined Lands and Reclamation Program
Division of Environmental Protection
1615 Washington Street, East
Charleston, West Virginia 25311
(304) 759-0521

WYOMING

Gary Beach, Administrator
AML Program
Department of Environmental Quality
Herschler Building
122 West 25th Street
Cheyenne, Wyoming 82002
(307) 777-6145

CROW TRIBE

John Small, Program Director
Crow Abandoned Mine Lands Program
P. O. Box 460
Crow Agency, Montana 59022
(406) 638-2894

HOPI TRIBE

Ehmett R. Nevakuku, Program Manager
Hopi Abandoned Mine Land Program
P. O. Box 123
Kykotsmovi, Arizona 86039
(602) 734-2441

NAVAJO NATION

Madeline Roanhorse, Acting Director
Abandoned Mine Land Reclamation Department
Navajo Nation
P.O. Box 1875
Window Rock, Arizona 86515
(602) 871-6584

FOOTNOTES, INFORMATION SOURCES, and PHOTO CREDIT

- 1. COAL PRODUCTION:** Under Section 402 of Public Law 95-87 (SMCRA), coal operators are required to pay a fee when coal is sold, used, or transferred. These fees are deposited in the U.S. Treasury as the Abandoned Mine Land Fund. Information about the type of coal (bituminous, lignite, or underground) and tonnage are tabulated on Form OSM-1 and submitted with the fee, which is paid quarterly to the Office of Surface Mining. The coal production data presented in this report was compiled from information stored in the Office of Surface Mining Fee Collection System computer data base. Collection of the fee began with the last quarter of 1977; therefore, 1978 data includes the last quarter of 1977 and the first three quarters of 1978. Information for each successive year follows the same tabulation pattern. Surface production includes both bituminous and lignite coal; underground includes tonnage reported as underground mined. In Montana and New Mexico, coal production on Indian land is listed under the Crow, Hopi, and Navajo Tribes.
- 2. NUMBER OF MINES:** The number of mines was compiled from Office of Surface Mining Fee Collection System data described in footnote 1 above. Annual totals were calculated by adding together the number of operations with the same Mine Safety and Health Administration numbers reported each quarter and dividing by four to give an annual number in each state.
- 3. ACREAGE OF PERMITS ISSUED AND BONDS RELEASED:** Acreage permitted data was compiled from annual oversight reports developed by Office of Surface Mining field offices. The acreage listed was permitted during the year shown and is not the total acreage under permit during that year. The acreage of reclamation bonds released was also compiled from the annual oversight reports. It should be noted that the sum of final Interim Regulatory Program bonds and Phase III (or final release) bonds equals the acreage where reclamation is complete (and has been released by the regulatory authority). The sum of all bond releases will result in duplication of acreage since the same land can be released under Phase I, II, and III. Note: state and federal permits are reported in this table.
- 4. STATE AND FEDERAL ENFORCEMENT ACTIONS:** Enforcement action data was compiled from annual oversight reports and field office records. The data presented are all actions taken by both the state regulatory authority and the Office of Surface Mining. Because the Hopi and Navajo jurisdictions overlap in Arizona and New Mexico, enforcement actions data for the tribes have been combined in annual oversight reports prepared by the Albuquerque Field Office; therefore, they are combined for this report and listed under Hopi Tribe.
- 5. ABANDONED MINE LAND RECLAMATION (PRIORITY 1 & 2 ACCOMPLISHMENTS):** Beginning in March 1993, the single source of Abandoned Mine Land accomplishments was the Abandoned Mine Land Inventory System (AMLIS) which represents OSM's official source for quantification of the number of problems and reclamation accomplishments. Statistics used in this table show Priority 1 and 2 projects. Priority 1 and 2 are specified in Section 403(1) and (2) of SMCRA and are as follows: Priority 1 - protection of public health, safety, and general welfare, and property from extreme danger of adverse effects of coal mining practices, and Priority 2 - protection of public health, safety, and general welfare from adverse effects of coal mining practices.
- 6. RURAL ABANDONED MINE PROGRAM (RAMP) RECLAMATION (PRIORITY 1 & 2 ACCOMPLISHMENTS):** The Rural Abandoned Mine Land Program, SMCRA Section 406, is administered by the Secretary of Agriculture. Data used to compile this table was collected under the same criteria as described in footnote 5 above.
- 7. ABANDONED MINE LAND RECLAMATION (PRIORITY 3 ACCOMPLISHMENTS):** Priority 3 accomplishments are those described in SMCRA Section 403(3), the restoration of land and water resources and the environment previously degraded by adverse effects of coal mining practices including measures for the conservation and development of soil, water (excluding channelization), woodland, fish and wildlife, recreation resources, and agricultural productivity. Data used to compile this table were collected using the same criteria as described in footnote 5 above.
- 8. RURAL ABANDONED MINE PROGRAM (RAMP) RECLAMATION (PRIORITY 3 ACCOMPLISHMENTS):** See footnotes 5, 6, and 7.
- 9. PROGRAM FUNDING:** Source of information, OSM Division of Financial Management, Denver, Colorado.

PHOTOGRAPHIC CREDIT: Front cover: Chuck Meyers, Office of Surface Mining.