

V. PROGRAM STATISTICS

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I-1. Office of Surface Mining Appropriations, by Activity, Fiscal Years 1978-79, with 1980 Budget Submittal.

<u>Appropriation/Activity</u>	(in millions)		
	FY 1978 <u>Actual (1)</u>	FY 1979 <u>Actual</u>	FY 1980 Pres. <u>Budget</u>
<u>Regulation and Technology (2)</u>			
<u>State regulatory program grants</u>	\$ 11.1	\$ 18.9	\$ 22.7
Interim regulatory program	(6.1)	(13.4)	(3)
Permanent program development	(5.0)	(4.0)	(3)
Permanent program operations	-	(1.5)	(3)
<u>Federal regulatory programs</u>	14.1	24.2	37.8
Program standards and evaluation	(2.8)	(4.0) (4)	(16.7)
Federal inspection and enforcement	(5.5)	(13.4)	(14.1)
Technical services (5)	(5.8)	(6.8)	(7.0)
<u>Mineral institutes</u>	5.7	5.8	5.8
Grants	(5.4)	(5.4)	(5.4)
Program administration	(.3)	(.4)	(.4)
<u>Small operator assistance payments (6)</u>	--	5.0	15.0
Total	\$ 30.9	\$ 53.9	\$ 81.3
<u>Abandoned Mine Reclamation Fund</u>			
<u>State reclamation grants</u>	-	10.0	50.0
<u>Federal reclamation programs</u>	26.6	41.5	53.9
Fund management (7)	(4.8)	(8.7)	(11.6)
Interior reclamation projects	(15.8)	(21.9)	(30.9)
Technical support	(1.0)	(.8)	(1.3)
Rural lands program (8)	(5.0)	(10.1)	(10.1)
<u>Small operator assistance payments</u>	10.0	10.0	10.0
Total	36.6	61.5	113.9
Total, OSM	\$ 67.5	\$115.4	\$195.2

Notes

- (1) Reflects initial appropriations adjusted for a reprogramming to increase State regulatory grants by \$2.5 million as approved by the Congress.
- (2) The appropriation title was "Enforcement and research" in FY 1978.
- (3) The FY 1978 budget request for State grants is one amount because startup dates for State permanent programs cannot be forecast.
- (4) Contained in a pending FY 1979 supplemental appropriation request for \$2.2 million for mine plan review and related environmental analysis under the Federal Coal Leasing Program.
- (5) Includes the "Research" subactivity which appeared only as a separate line item in the FY 1978 budget.
- (6) Appropriations in excess of the first \$10 million chargeable to the Abandoned Mine Reclamation Fund.
- (7) Includes the "Fee collection" and "Assistance to States" subactivities which appeared as separate items in the FY 1978 budget only.
- (8) Administered by the Soil Conservation Service of the U.S. Department of Agriculture.

I-2. Office of Surface Mining, Fiscal Year 1978 Appropriations, Obligations, and Unobligated Balances

(in millions)			
<u>Appropriation/Activity</u>	<u>Appropriation</u>	<u>Obligations</u>	<u>Unobligated Balance*</u>
<u>Regulation and Technology</u>			
<u>State regulatory program grants</u>	\$ 11.1	\$ 9.6	\$ 1.5
Interim regulatory program	(6.1)	(6.1)	-
Permanent program development	(5.0)	(3.5)	(1.5)
<u>Federal regulatory programs</u>	14.1	9.1	5.0
Program standards and evaluation	(2.8)	(1.5)	(1.3)
Federal inspection and enforcement	(5.5)	(4.2)	(1.3)
Technical services	(5.8)	(3.4)	(2.4)
<u>Mineral institutes</u>	5.7	5.4	-
Grants	(5.4)	(5.4)	-
Program administration	(.3)	-	(.3)
Total	<u>\$ 30.9</u>	<u>\$ 24.1</u>	<u>\$ 6.8</u>
<u>Abandoned Mine Reclamation Fund</u>			
<u>Federal reclamation programs</u>	26.6	5.0	21.6
Fund management	(4.8)	(.6)	(4.2)
Interior reclamation projects	(15.8)	(3.4)	(12.4)
Technical support	(1.0)	(.6)	(.4)
Rural lands program	(5.0)	(.4)	(4.6)
<u>Small operator assistance payments</u>	10.0	-	10.0
Total	<u>36.6</u>	<u>5.0</u>	<u>31.6</u>
Total, OSM	<u>\$ 67.5</u>	<u>\$ 29.1</u>	<u>\$ 38.4</u>

\*Unobligated balances in the Abandoned Mine Reclamation Fund appropriation remain available until they are obligated; the FY 1978 balances are expected to be fully obligated in FY 1979. Unutilized funds in the Regulation and Technology appropriation lapsed at the end of fiscal year 1978.

I-3. Office of Surface Mining, Staffing at End of 1978. (1)

Permanent Positions

<u>Location</u>	<u>Authorized Persons</u>	<u>On Duty</u>	<u>Selected/ Not Yet Reported</u>	<u>Total Selected</u>	<u>Vacancies</u>
Washington, D.C. (2)	247 (1)	161	8	169	78
Region I	231	102	35	137	94
Region II	213	85	4	89	124
Region III	116	69	11	80	36
Region IV	90	45	8	53	37
Region V	<u>90</u>	<u>45</u>	<u>2</u>	<u>47</u>	<u>43</u>
Total Permanent	987	507	68	575	449
Permanent Employment Ceiling (FY 1979) (3)	899	507	68	575	449
<u>Temporary Positions</u>	<u>108</u>	<u>42</u>	<u>-</u>	<u>42</u>	<u>66</u>
Total (Ceilings)	1,007	549	68	617	390

(1) Data as of January 4, 1979.

(2) Excludes 13 positions allocated to the U.S. Bureau of Mines for accounting support to OSM.

(3) The difference between authorized positions and the employment ceiling is the expected number of vacancies at the end of the fiscal year due to employee turnover, recruiting time, etc.

II-1. Abandoned Mine Reclamation Fund, Status on September 30, 1978

<u>States or Tribe</u>	<u>Total Revenues (1)</u>	<u>Allocations to States or Tribes (2)</u>
Alabama	\$ 2,643,499.01	\$ 1,321,749.51
Alaska	196,454.10	98,222.55
Arkansas	75,859.80	37,929.90
Colorado	2,483,731.26	1,241,865.63
Georgia	10,061.16	5,030.58
Illinois	6,656,436.13	3,328,218.07
Indiana	4,798,096.12	2,399,048.06
Iowa	87,160.67	43,580.34
Kansas	363,865.85	181,932.93
Kentucky	20,385,019.62	10,192,509.81
Maryland	500,230.20	250,115.10
Missouri	1,051,748.96	525,874.48
Montana	5,374,401.91	2,687,200.96
New Mexico	1,084,868.93	542,434.47
North Dakota	915,060.64	457,530.32
Ohio	7,500,967.18	3,750,483.59
Oklahoma	1,266,432.93	633,216.47
Pennsylvania	12,323,124.60	6,161,562.30
Tennessee	1,636,494.30	818,247.15
Texas	1,157,651.23	578,825.62
Utah	768,151.39	384,075.70
Virginia	4,505,809.24	2,252,904.62
Washington	1,329,457.68	664,728.84
West Virginia	9,710,503.59	4,855,251.80
Wyoming	13,846,429.52	6,923,214.76
Crow Tribe	1,177,263.15	588,631.58
Hopi Tribe	243,705.71	121,852.86
Navajo Tribe	3,336,585.74	1,668,292.87
TOTAL	\$105,429,061.62	\$ 52,714,530.87

(1) Includes fees and interest.

(2) Under section 402(g)(2), Congress must appropriate funds and State Reclamation Plans must be approved by OSM before allocations can be made available to States as grants-in-aid. Appropriation of \$10 million for FY 1979 was made in the expectation that some State plans would be approved in the fiscal year.

II-2. Abandoned Mine Reclamation Fund, Projects in 1978, by Category

EMERGENCIES (Section 410)

Declared Emergency

Landslide, Jefferson Borough, PA	\$ 59,040
Gas blowout, Eldorado, IL	34,557

Investigation of Emergency

Subsidence, Des Moines, IO	14,785
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HIGH PRIORITY (Section 403)

Work Initiated

Subsidence, Frostburg State College, Frostburg, MD	\$1,142,650
Watershed reclamation, St. Charles, VA	941,366
Acid mine drainage, Big Creek, Coalmont, TN	126,152
Subsidence, Curtis School, Youngstown, OH	280,120
Shaft location, Youngstown, OH	200,000
Subsidence, O'Fallon, IL	100,000
Landslide, Bridgeport, OH	10,000
Subsidence, Scranton School, Scranton, ND	5,750

Public Announcement by OSM

Percy mine fire, Fayette County, PA	399,200
Peach Creek refuse pile, Logan, WV	2,000,000
Reclamation, Cranks Creek, Harlan County, KY	1,000,000
Open shafts, Marvel, AL	20,000

Tentatively Approved by OSM

Subsidence, Fairmont, WV	19,600
Darby Hollow refuse pile, Boone County, WV	150,000
Holden I refuse pile, Logan County, WV	1,000,000
Landslide, Georges Creek, Allegheny County, MD	1,250,000
Acid mine drainage, Clearfield County, PA	500,000
Plummer mine fire, Fayette County, PA	566,000
Acid mine drainage, Johnson's Hollow, Fayette County, PA	165,000
Cross Creek mine seal, Washington County, PA	12,000
Coalport subsidence, Clearfield County, PA	34,000
Munson Creek acid mine drainage, Clearfield County, PA	24,000
Perry mine seal, Jefferson County, PA	54,000
Dickson City mine pits, Luzerne County, PA	354,000

Tentatively Approved by OSM (continued)

Auchincloss shaft sealing, Luzerne County, PA	\$ 56,000
Peach Orchard colliery seal, Luzerne County, PA	47,000
Wadesville shaft seal, Luzerne County, PA	82,000
Otto shaft seal, Schuylkill County, PA	79,000
Exeter colliery seal, Luzerne County, PA	20,000
Ewen colliery seal, Luzerne County, PA	17,000
Delaware colliery seal, Luzerne County, PA	19,000
Nottingham colliery seal, Luzerne County, PA	11,000
Eddy Creek colliery seal, Lackawanna County, PA	17,000
Nauvoo Pits, Walker County, AL	297,000
Cypress Creek reclamation, Muhlenberg County, KY	1,000,000
Church landslide, Harlan County, KY	40,000
Wallins Creek reclamation, Harlan County, KY	210,000
McHenry Creek reclamation, Ohio County, KY	Undetermined
Beaver Dam reclamation, Ohio County, KY	Undetermined
Belleville subsidence abatement, St. Claire County, IL	120,000
Highwall hazard elimination, Coal County, OK	40,000
Keota Park hazard abatement, Haskell County, OK	18,000

III-1. Initial Regulatory Program Support Grants-in-Aid to States,  
Fiscal Year 1978.

<u>State</u>	<u>State Outlay</u>	<u>OSM Grant</u>
Alabama	\$ 265,451	\$ 230,012
Arkansas	21,620	65,055
Colorado	77,784	42,281
Illinois	308,279	398,435
Iowa	53,902	44,599
Kansas	8,429	48,379
Kentucky	3,089,422	2,133,018
Maryland	185,063	158,640
Missouri	64,879	46,412
Montana	244,075	58,111
New Mexico	34,947	67,742
North Dakota	137,883	248,375
Ohio	784,040	370,541
Oklahoma	49,050	121,182
Pennsylvania	3,120,870	232,920
Tennessee	437,000	26,240
Texas	319,684	196,089
Utah	63,798	62,000
Virginia	476,975	626,155
West Virginia	2,888,412	882,541
Wyoming	<u>198,198</u>	<u>38,201</u>
TOTAL	\$10,229,761	\$6,096,928

III-2. Coal Mining and Reclamation Inspection Activity, May 29 -  
December 31, 1978, by Office of Surface Mining Region and State.

Number of Inspections Resulting in:

<u>Region/State</u>	<u>Number of Inspections</u>	<u>Notices of Violation</u>	<u>Cessation Orders</u>
<u>Region I</u>			
Maryland	78	7	0
Pennsylvania	434	29	3
Virginia	333	88	34
West Virginia	357	43	7
TOTAL	1,202	167	44
<u>Region II</u>			
Alabama	139	40	26
Georgia	17	2	1
Kentucky	560	148	53
Tennessee	218	63	33
TOTAL	934	253	113
<u>Region III</u>			
Illinois	112	35	9
Indiana	140	83	5
Ohio	106	79	12
TOTAL	358	197	26
<u>Region IV</u>			
Arkansas	24	8	5
Iowa	29	5	0
Kansas	34	1	0
Missouri	37	9	1
Oklahoma	75	11	2
Texas	12	0	1
TOTAL	211	34	9
<u>Region V</u>			
Arizona	2	0	0
Colorado	16	4	0
Montana	12	0	0
New Mexico	3	0	0
North Dakota	12	1	0
Oregon	1	0	0
Utah	12	2	0
Washington	3	0	0
Wyoming	11	0	0
TOTAL	72	7	0
GRAND TOTAL	2,777	658	193

III-3. Permanent Regulatory Program Development Grants-in-Aid to States,  
Fiscal Year 1978.

<u>State</u>	<u>Grant</u>
Colorado	\$ 71,007
Iowa	20,000
Kentucky	1,565,622
Missouri	125,744
North Dakota	462,624
Oklahoma	205,462
Virginia	285,989
Wyoming	<u>288,625</u>
TOTAL	\$3,025,073

IV-1. Institutions of Higher Education Qualified and Designated as  
Mining and Mineral Resources Research Institutes, Fiscal Years  
1978 - 1979.

<u>Designated FY 1978</u>	<u>Designated FY 1979</u>
University of Alaska	University of Alabama
University of Arizona	Michigan Technological University
University of California, Berkeley	<u>Qualified FY 1978-1979</u>
Colorado School of Mines	Clemson University
University of Idaho	Columbia University
Southern Illinois University at Carbondale	University of Florida, Gainesville
University of Kentucky	Georgia Institute of Technology
Massachusetts Institute of Technology	Iowa State University of Science and Technology
University of Minnesota	University of Kansas
University of Mississippi	Louisiana State University
University of Missouri, Rolla	North Carolina State University, Raleigh
Montana College of Mineral Science and Technology	University of North Dakota
New Mexico Institute of Mining and Technology	University of Nevada, Reno
Ohio State University	Rutgers The State University of New Jersey
University of Oklahoma	South Dakota School of Mines and Technology
Pennsylvania State University	Virginia Polytechnic Institute and State University
University of Texas, Austin	University of Washington
University of Utah	University of Wisconsin, Madison
West Virginia University	
University of Wyoming	

IV-2. Highlights of Fourth Quarter 1978 Reports of Mining and Mineral Resources and Research Institutes

University of Alabama: The University's current mineral-related research and education programs and proposed new research projects were reviewed, projects identified for funding, and consideration given to positions, equipment, and supplies.

University of Alaska: The bulk of the initial allotment funds is to be used for research projects and the rest for support services and equipment.

University of Arizona: Most expenditures planned for capital equipment, the remainder for operations, salaries, and travel.

University of California, Berkeley: Fifteen new courses established; arrangements made to acquire a computer-interactive graphics system; research initiated on rock mechanics, rock breaking, wear of mining equipment, solution mining, automatic control of grinding circuits, agglomeration of fine mineral particles, recovery of minerals, and mineral resource assessment; and plans formulated to hire personnel.

Colorado School of Mines: Organizational activities, the hiring of a full-time assistant to the director, and allocation of limited funds for purchase of office equipment have been accomplished.

University of Idaho: The program of the institute is being defined, and a few operational items were purchased.

Southern Illinois University at Carbondale: A secretary has been hired, assistant director and post-doctoral positions established, and eight projects funded for research on coal fines, mine effluents, underground mining operations, reclamation of abandoned mines, geostatistics, reclamation costs, mined prime farmland, and pinset roof bolter.

University of Kentucky: Activity has been initiated in mining engineering reclamation training programs, coal geology, and social, political and economic aspects of surface mining and reclamation. In addition, 6 graduate fellowships and 12 undergraduate scholarships have been awarded.

Massachusetts Institute of Technology:

Michigan Technological University: A council established to administer the Institute; Institute program is in the planning stage; no funds expended.

University of Minnesota: Initial activities in process metallurgy and mining technology include allocation of funds for professional personnel and development of plans for a computer graphics facility.

University of Mississippi: Eight research areas to be funded and the need for a full-time administrator have been identified.

University of Missouri, Rolla: Research projects in progress on remote sensing for mined land reclamation assessment and control, blasting research, ultrasonic determination of the failure state of mine pillars, numerical reservoir simulation, and minimizing losses of metal values to flotation mine tailings. Additional equipment requested.

Montana College of Mineral Science and Technology: Several positions established, plans made to provide new journal subscriptions for the library and to fund faculty travel, and money committed for acquisition of six additional computer terminals.

New Mexico Institute of Mining and Technology: Assignments have been made, priorities established, and allocations made to the mineral-oriented departments, resulting in plans for new personnel and equipment.

Ohio State University: An acting director of the Institute has been appointed as well as an advisory committee.

University of Oklahoma: Planning is continuing with a focus on coal, tar sands, and construction materials in metropolitan areas.

Pennsylvania State University: Established priorities being implemented to hire additional permanent faculty, to support research of young or new faculty members, and to support exploratory research.

University of Texas at Austin: Principal efforts to date have been effecting a cooperative agreement between the University of Texas and Texas A & M University and recruitment of an Institute director.

University of Utah: Nine research projects approved for funding, two technicians hired, and a secretary authorized. Funds allocated for partial support of one visiting and one regular faculty member.

West Virginia University: Thirty-eight proposals received and 18 funded in the areas of impact (3), pollution (6), reclamation (7), and extraction (2). They involve 18 students as graduate assistants.

University of Wyoming: Two research grants approved, two items of equipment authorized, a secretary hired, and two additional positions planned. The grants are for a national survey and inventory of selected strategic recyclable non-ferrous metallic wastes and for elemental analysis.