

**I-1 Office of Surface Mining Appropriations, by Activity, Fiscal Years  
1978-79-80, with 1981 Budget Estimates (in millions of dollars)**

<i>Activity</i>	<i>FY 1978 Actual</i>	<i>FY 1979 Actual</i>	<i>FY 1980 Actual</i>	<i>FY 1981 Estimates</i>
<b>REGULATION AND TECHNOLOGY</b>				
<i>State Regulatory Program Grants:</i>				
Initial Regulatory Program	6.1	13.4	n/a	n/a
Permanent Program Development	5.0	4.0	n/a	n/a
Permanent Program Operations	—	1.5	n/a	n/a
Subtotal—State Regulatory Program Grants	\$11.1	\$ 18.9	\$ 21.7	\$ 36.2
<i>Federal Regulatory Programs:</i>				
State and Federal Programs	2.8	4.0	14.4	26.6
Federal Inspection and Enforcement	5.5	13.4	16.6	20.2
Technical Services	5.8	6.8	7.0	7.7
Subtotal—Federal Regulatory Programs	\$14.1	\$ 24.2	\$ 38.0	\$ 54.5
<i>Mineral Institutes:</i>				
Grants	5.4	5.4	9.7	9.2
Program Administration	0.3	0.4	0.3	.4
Subtotal—Mineral Institutes	\$ 5.7	\$ 5.8	\$ 10.0	\$ 9.6
<i>Small Operator Assistance Payments:</i>				
Subtotal—Small Operator Assistance Payments	—	\$ 5.0	\$ 15.0	—
<b>TOTAL—REGULATION AND TECHNOLOGY</b>	<b>\$30.9</b>	<b>\$ 53.9</b>	<b>\$ 84.7</b>	<b>\$100.3</b>
<b>ABANDONED MINE RECLAMATION FUND</b>				
<i>State Reclamation Grants:</i>				
Subtotal—State Reclamation Grants	—	10.0	25.0	45.0
	\$ —	\$ 10.0	\$ 25.0	\$ 45.0
<i>Federal Reclamation Programs:</i>				
Fund management	4.8	8.7	9.1	5.4
Interior Reclamation Projects	15.8	21.9	39.5	15.2
Technical Support	1.0	0.8	1.2	1.7
Rural Lands Program	5.0	10.1	10.1	10.2
Subtotal—Federal Reclamation Programs	\$26.6	\$ 41.5	\$ 59.9	\$ 32.5
<i>Small Operator Assistance Payments:</i>				
Subtotal—Small Operator Assistance Payments	10.0	10.0	10.0	10.0
	\$10.0	\$ 10.0	\$ 10.0	\$ 10.0
<b>TOTAL—ABANDONED MINE RECLAMATION FUND</b>	<b>\$36.6</b>	<b>\$ 61.5</b>	<b>\$ 94.9</b>	<b>\$ 87.5</b>
<b>GRAND TOTAL—OFFICE OF SURFACE MINING</b>	<b>\$67.5</b>	<b>\$115.4</b>	<b>\$179.6</b>	<b>\$187.8</b>

**I-2 Office of Surface Mining Fiscal Year 1979 Appropriations, Obligations, and Unobligated Balances (in millions of dollars)**

<i>Activity</i>	<i>Appropriations Available<sup>1</sup></i>	<i>Obligations</i>	<i>Unobligated Balance</i>
<b>REGULATION AND TECHNOLOGY:</b>			
<i>State Regulatory Program Grants:</i>			
Initial Regulatory Program	14.9	14.4	.5
Permanent Program Development	<u>4.0</u>	<u>3.0</u>	<u>1.0</u>
Subtotal—State Regulatory Program Grants	\$ 18.9	\$17.4	\$ 1.5
<i>Federal Regulatory Programs:</i>			
Regulatory Program Standards and Evaluation	4.0	3.9	.1
Federal Inspection and Enforcement	13.4	12.5	.9
Technical Services	<u>6.8</u>	<u>6.6</u>	<u>.2</u>
Subtotal—Federal Regulatory Programs	\$ 24.2	\$23.0	\$ 1.2
<i>Mineral Institutes:</i>			
Grants	5.4	5.4	—
Program Administration	<u>0.4</u>	<u>0.2</u>	<u>0.2</u>
Subtotal—Mineral Institutes	\$ 5.8	\$ 5.6	\$ 0.2
<i>Small Operator Assistance Payments:</i>			
	<u>5.0</u>	<u>5.0</u>	<u>—</u>
Subtotal—Small Operator Assistance Payments	<u>\$ 5.0</u>	<u>\$ 5.0</u>	<u>—</u>
<b>TOTAL—REGULATION AND TECHNOLOGY</b>	<b>\$ 53.9</b>	<b>\$51.0</b>	<b>\$ 2.9</b>
<b>ABANDONED MINE RECLAMATION FUND:</b>			
<i>State Reclamation Grants:</i>			
Subtotal—State Reclamation Grants	<u>10.0</u>	<u>2.8</u>	<u>7.2</u>
	\$ 10.0	\$ 2.8	\$ 7.2
<i>Federal Reclamation Programs:</i>			
Fund Management	9.4	3.8	5.6
Interior Reclamation Projects	37.2	14.1	23.1
Technical Support	1.8	.9	.9
Rural Lands Program	<u>14.7</u>	<u>10.4</u>	<u>4.3</u>
Subtotal—Federal Reclamation Programs	\$ 63.1	\$29.2	\$33.9
<i>Small Operator Assistance Payments:</i>			
	<u>20.0</u>	<u>7.6</u>	<u>12.4</u>
Subtotal—Small Operator Assistance Payments	20.0	7.6	12.4
<b>TOTAL—ABANDONED MINE RECLAMATION FUND</b>	<u><u>\$ 93.1</u></u>	<u><u>\$39.6</u></u>	<u><u>\$53.5</u></u>
<b>GRAND TOTAL—OFFICE OF SURFACE MINING</b>	<b>\$147.0</b>	<b>\$90.6</b>	<b>\$56.4</b>

<sup>1</sup>includes available balances of prior year Abandoned Mine Reclamation Fund appropriations.

### I-3 Office of Surface Mining Staffing at End of Fiscal Year 1979<sup>a</sup>

<i>Permanent Positions by Location</i>	<i>Author- ized Persons</i>	<i>On Duty</i>	<i>Selected;</i>		<i>Vacancies</i>
			<i>Not Yet Reported</i>	<i>Total Selected</i>	
Washington, D.C. <sup>b</sup>	271	249	5	254	17
Region I	229	198	11	209	20
Region II	211	199	2	201	10
Region III	117	111	1	112	5
Region IV	92	85	1	86	6
Region V	102	75	5	80	22
TOTAL, Permanent Positions	1,022	917	25	942	80
<i>Ceilings for Permanent and Temporary Positions</i>					
Permanent Employment Ceiling, FY 1979 <sup>c</sup>	935	917	25	942	(22)
Temporary Positions	108	28	1	29	79
TOTAL, Ceilings	1,043	945	26	971	57

<sup>a</sup> Data as of September 30, 1979.

<sup>b</sup> Excludes 13 positions allocated to the U.S. Bureau of Mines for accounting support to OSM.

<sup>c</sup> The difference between authorized positions and employment ceiling is the expected number of vacancies at the end of the fiscal year, due to employees turnover, recruiting time, etc. The figures include six worker-trainee positions and one end-of-year position transferred from Trust Territories.

**II-1 Abandoned Mine Lands Reclamation Fund Status as of September 30, 1979**

States	Fiscal 1979		Cumulative Totals to Date		
	Total Revenues <sup>1</sup>	Allocations to States or Tribes <sup>2</sup>	Revenues <sup>1</sup>	Allocations <sup>2</sup>	Funds Transferred to States
Alabama	\$ 5,761,848.54	\$ 2,880,924.27	\$ 8,405,347.55	\$ 4,202,673.78	\$ 176,300.00
Alaska	255,589.43	127,794.72	452,034.53	226,017.27	
Arizona	—0—	—0—	—0—	—0—	
Arkansas	127,827.33	63,913.67	203,687.13	101,843.57	60,000.00
Colorado	4,464,179.35	2,232,089.68	6,947,910.61	3,473,955.31	505,313.00
Georgia	7,787.10	3,893.55	17,848.26	8,924.13	
Illinois	14,795,666.99	7,397,833.50	21,452,103.12	10,726,051.57	130,000.00
Indiana	9,426,032.04	4,713,016.02	14,224,128.16	7,112,064.08	
Iowa	144,779.75	72,389.88	231,940.42	115,970.22	25,000.00
Kansas	304,517.18	152,258.59	668,383.03	334,191.52	
Kentucky	31,177,345.41	15,588,672.71	51,562,365.03	25,781,182.52	569,617.00
Maryland	793,270.28	396,635.14	1,293,500.48	646,750.24	
Missouri	2,377,721.03	1,188,860.52	3,429,469.99	1,714,735.00	84,085.88
Montana	10,827,453.47	5,413,726.74	16,201,855.38	8,100,927.70	116,268.00
New Mexico	5,787,763.49	2,893,881.75	6,872,632.42	3,436,316.22	227,905.00
North Dakota	1,260,367.83	630,183.92	2,175,428.47	1,087,714.24	
Ohio	11,911,196.19	5,955,598.10	19,412,163.37	9,706,081.69	313,500.00
Oklahoma	1,805,947.65	902,973.83	3,072,380.58	1,536,190.30	74,650.94
Pennsylvania	22,949,563.02	11,474,781.51	35,272,687.62	17,636,343.81	
Tennessee	2,048,049.15	1,024,024.58	3,684,543.45	1,842,271.73	128,707.00
Texas	2,295,433.50	1,147,716.75	3,453,084.73	1,726,542.37	81,980.00
Utah	1,571,423.85	785,711.93	2,339,575.24	1,169,787.63	
Virginia	5,933,957.06	2,966,978.53	10,439,766.30	5,219,883.15	203,081.81
Washington	1,603,547.40	801,773.70	2,933,005.08	1,466,502.54	
West Virginia	19,578,398.31	9,789,199.16	29,288,901.90	14,644,450.96	413,479.00
Wyoming	21,516,123.11	10,758,061.56	35,362,552.63	17,681,276.32	
Crow Tribe	1,633,389.90	816,694.90	2,810,652.95	1,405,326.48	156,545.00
Hopi Tribe	391,676.94	195,838.47	635,382.65	317,691.33	
Navajo Tribe	4,809,880.74	2,404,940.37	8,146,466.48	4,073,233.24	
<b>TOTAL</b>	<b>\$185,560,735.94</b>	<b>\$92,780,368.05</b>	<b>\$290,989,797.56</b>	<b>\$145,494,898.92</b>	<b>\$3,266,432.63</b>

<sup>1</sup> Includes fees and interest

<sup>2</sup> 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, by Category, as of September 30, 1979

### Summary by Category and by Region (Dollars)

<i>CATEGORY</i>	<i>Region I</i>	<i>Region II</i>	<i>Region III</i>	<i>Region IV</i>	<i>Region V</i>	<i>Total All Regions</i>
Declared Emergency-completed in FY 79	\$ 138,500	\$ 172,353	\$ 82,703	\$ —	\$ 50,500	\$ 444,056
Declared Emergency-under construction in FY 1979	\$ 406,000	\$ —	\$ 65,500	\$ —	\$ 30,500	\$ 502,000
High Priority—completed in FY 1979	\$ 169,600	\$ —	\$ 103,380	\$ —	\$ 24,000	\$ 296,980
Projects under construction in FY 1979	\$ 4,408,366	\$ 513,053	\$1,041,500	\$ —	\$ 42,450	\$ 6,005,369
Projects with cooperative agreements or contracts signed and construction not started	\$ 3,962,000	\$ 2,034,434	\$ 738,000	\$ 20,000	\$ 26,250	\$ 6,780,684
Projects with scope of work developed but no cooperative agreement or contract issued	\$ 2,439,800	\$ 7,975,024	\$ 379,000	\$2,603,000	\$230,000	\$13,626,824
Projects with eligibility determined but scope of work not developed	\$ —	\$ —	\$ 100,000	\$ 455,000	\$ —	\$ 555,000
Projects identified with no other action taken	<u>\$ 6,738,000</u>	<u>\$12,050,000</u>	<u>\$ 25,000</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$18,813,000</u>
	\$18,262,266	\$22,744,864	\$2,535,083	\$3,078,000	\$403,700	\$47,023,913

**II-3 Abandoned Mine Reclamation Fund, Projects in FY 1979, by Category**

Summary of All Federal Reclamation Projects

	<i>Projects</i>	<i>Funds</i>
Emergency Projects		
Completed in FY 79	23	\$ 444,056
Under Construction in FY 79	6	502,000
High Priority Projects		
Completed in FY 79	16	296,980
Under Construction in FY 79	19	6,005,369
With Approved Cooperative Agreements	41	6,780,684
With Scope of Work Developed	41	13,626,824
With Eligibility Determined	8	555,000
Identified	<u>41</u>	<u>18,813,000</u>
Total All Projects	195	\$47,023,913

## Declared Emergency—Completed in FY 1979

## REGION I

Monongahela Flooding	Allegheny Co., PA	\$ 6,500
Brisbin Subsidence	Clearfield Co., PA	60,000
Taylor Shaft	Lackawanna Co., PA	6,000
Askew Subsidence (Plymouth)	Luzerne Co., PA	5,000
Lee Street Subsidence (Plymouth)	Luzerne Co., PA	5,000
Montaro Subsidence	Scranton, PA	12,000
Pina Subsidence	Providence Co., RI	3,000
Pecks Run Subsidence	Upshur Co., WV	35,000
Verge Subsidence	Marion Co., WV	2,000
Weirton Subsidence	Hancock Co., WV	4,000

## REGION II

Bakers Branch Slide	Johnson Co., KY	\$ 41,115
Boons Camp Slide	Johnson Co., KY	14,800
Colly Creek Slide	Letcher Co., KY	40,000
Millstone Slide	Letcher Co., KY	17,647
Dorton Slide	Pike Co., KY	58,791

## REGION III

Million Subsidence	LaSalle Co., IL	\$ 1,200
Gas Blowout	Saline Co., IL	43,963
O'Fallon Gob Pile Fire	St. Clair Co., IL	3,500
Litton Subsidence (Energy)	Williamson Co., IL	9,290
Johnson Subsidence	Perry Co., OH	24,750

## REGION V

Lafayette Air Shaft	Boulder Co., CO	23,000
Klondike Mine Air Shaft	El Paso Co., CO	7,500
Monarch Mine Fire	Sheridan Co., WY	20,000

TOTAL—All Regions

\$444,056

## Declared Emergency—Under Construction in FY 1979

## REGION I

West Mifflin Water Imp. (Phase I)	Allegheny Co., PA	\$ 6,000
Pierce Street Subsidence	Scranton, PA	200,000
Vandergrift Subsidence	Westmoreland Co., PA	200,000

## REGION III

Fowler Subsidence (Energy)	Williamson Co., IL	\$ 1,500
Snyder Youngblood Subsidence	Williamson Co., IL	64,000

## REGION V

Portal Park Subsidence	El Paso Co., CO	\$ 30,500
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TOTAL—All Regions

\$502,000

## HIGH PRIORITY (Section 403)

### Projects Completed in FY 1979

#### REGION I

Belle Vernon Subsidence	Fayette Co., PA	\$ 6,000
Archbald Flooding	Lackawanna Co., PA	69,000
Nutter Fort School Landslide	Harrison Co., WV	75,000
*Fairmont Mine Subsidence	Marion Co., WV	19,600

#### REGION III

Saint David Shaft	Fulton Co., IL	13,275
Seneca Shaft	LaSalle Co., IL	6,820
Seneca A Shaft	LaSalle Co., IL	4,975
Streator Subsidence	LaSalle Co., IL	4,283
Berlin Shaft	Sangamon Co., IL	12,425
*Primovic Mudslide	Belmont Co., OH	8,500
Pomeroy Mudslide	Meigs Co., OH	33,161
Dennison Subsidence	Tuscarawas Co., OH	19,941

#### REGION V

Davidson Ditch Subsidence	Boulder Co., CO	\$ 3,250
*Scranton Subsidence (Phase I)	Bowman Co., ND	5,750
Engel Subsidence	King Co., WA	5,000
Bevan Subsidence	Pierce Co., WA	10,000

TOTAL—All Regions \$296,980

\*Identified in '78 Annual Report \$ 33,850  
Identified in FY 1979 263,130

**Projects Under Construction in FY 1979**

**REGION I**

*Frostburg College Subsidence	Allegany Co., MD	\$1,007,000
Jefferson Borough Landslide	Allegheny Co., PA	20,000
*St. Charles Flood Control	Lee Co., VA	1,381,366
*Peach Creek Burning Refuse	Logan Co., WV	2,000,000

**REGION II**

*Cranks Creek Sedimentation	Harlan Co., KY	498,053
Big Creek Biological Monitoring	Grundy Co., TN	15,000

**REGION III**

Maple Grove Shaft	Vigo Co., IN	\$ 75,000
Miami #10 Shaft	Vigo Co., IN	45,000
Illinois Mine Entry Inventory	IL	12,000
Sessor Open Shaft	Franklin Co., IL	99,000
Chicago & Springfield Shafts	Sangamon Co., IL	22,000
Wasson #1 Mine Gas	Saline Co., IL	49,000
*O'Fallon Mine Subsidence	St. Clair Co., IL	100,000
*Tri-County Subsidence Survey	OH	200,000
Cumberland Landslide	Guernsey Co., OH	10,000
La Grange Landslide	Lawrence Co., OH	30,000
Syracuse Coal & Salt Shaft	Meigs Co., OH	26,500
*Youngstown Curtis School Subsidence	Trumbull Co., OH	373,000

**REGION V**

Old Klondike Hoist Shaft	El Paso Co., CO	\$ 42,450
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TOTAL—All Regions \$6,005,369

*1978	\$5,559,419
1979	445,950

**Projects With Cooperative Agreements or Contract Signed and Construction Not Started**

**REGION I**

Barton Mine Drainage	Allegany Co., MD	\$ 96,500
*Clearfield Mine Drainage	Clearfield Co., PA	180,000
*Munson Mine Drainage	Clearfield Co., PA	24,000
*Johnson Hollow Mine Flooding	Fayette Co., PA	120,000
*Percy Mine Fire	Fayette Co., PA	2,149,000
*Plummer-Puritan Mine Fire	Fayette Co., PA	135,000
*Perry Mine Seal	Jefferson Co., PA	27,000
*Eddy Creek Mine Shaft	Lackawanna Co., PA	27,000
*Storrs Strip Mine Pit	Lackawanna Co., PA	391,000
*Ewen Mine Shaft	Luzerne Co., PA	25,000
*Otto Mine Shaft	Schuylkill Co., PA	59,000
*Wadesville Mine Shaft	Schuylkill Co., PA	56,000
*Cross Creek Mine Seal	Washington Co., PA	16,000
Oakwood Gob Pile	Buchanan Co., VA	656,500

**REGION II**

Marvel Mine Shafts	Bibb Co., AL	20,000
*Nauvoo I Highwall	Walker Co., AL	285,000
*Nauvoo II Highwall	Walker Co., AL	140,000
Radiant City Water Impoundment	Walker Co., AL	60,000
Townley-West Mud Slide	Walker Co., AL	47,950
*Wallins Creek Sedimentation Study	Harlan Co., KY	9,500
Buffalo Creek Slide	Johnson Co., KY	13,589
*Cypress Creek Flooding (Phase I & II)	Muhlenberg Co., KY	54,233
*Cypress Creek Flooding (Phase III)	Muhlenberg Co., KY	676,875
McHenry Sedimentation	Ohio Co., KY	75,969
Shelby Creek Slide	Pike Co., KY	22,607
Smith Fork Slide	Pike Co., KY	458,759
Newcomb Flooding (Phase I)	Campbell Co., TN	43,800
Big Creek Water Supply (Phase I)	Grundy Co., TN	126,152

**REGION III**

Carlinsville Open Shaft	Macoupin Co., IL	\$ 51,000
Carrier Mills Shaft	Saline Co., IL	25,000
O'Gara Mine Gas	Saline Co., IL	80,000
New Black Diamond #4 Shaft	Williamson Co., IL	97,000
Bench Street Mudslide	Belmont Co., OH	330,000
Tippecanoe Shaft	Mahoning Co., OH	90,000
Pomeroy Mudslide (Phases II & III)	Meigs Co., OH	65,000

**REGION IV**

*Midway Abandoned Highwall	Coal Co., OK	\$ 20,000
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**REGION V**

Black Diamond Shaft	McKinley Co., NM	\$ 8,500
Chiaromonte Subsidence	McKinley Co., NM	4,000
Juliana Subsidence	McKinley Co., NM	3,000
Kauzlarich Open Pits	McKinley Co., NM	7,500
Southwestern Atherton Shaft	McKinley Co., NM	3,500

TOTAL—All Regions \$6,780,684

\*1978 \$4,394,608

1979 \$2,386,076

**Projects With Scope of Work Developed With No Cooperative Agreement or Contract Issued**

**REGION I**

Mechanicsville Mine Drainage	Clarion Co., PA	\$ 30,000
Scranton Sewerline Subsidence	Lackawanna Co., PA	80,000
*Auchincloss Colliery Shaft	Luzerne Co., PA	56,000
Delaware Colliery Shaft	Luzerne Co., PA	19,000
*Exeter Red Ash Shaft	Luzerne Co., PA	30,000
*Nottingham Colliery Shaft	Luzerne Co., PA	11,000
*Peach Orchard Colliery Shaft	Luzerne Co., PA	47,000
Sharon Street Subsidence	Mercer Co., PA	40,000
Grundy Landslide	Buchanan Co., VA	36,300
Bowser Hollow Fire	Wise Co., VA	165,500
*Darby Hollow Refuse Fire	Boone Co., WV	150,000
*Holden #1 Gob Pile	Logan Co., WV	1,000,000
Masontown Mine Drainage	Preston Co., WV	775,000

**REGION II**

Smith Mine Shaft	Bibb Co., AL	\$ 31,670
Lake Lahusage	De Kalb Co., AL	130,000
Riceton Mine Subsidence	Walker Co., AL	6,200
Straight Creek Sedimentation	Bell Co., KY	51,414
Mason Street Subsidence	Boyd Co., KY	18,450
Drift Mine Fire	Floyd Co., KY	9,900
Baker Branch Slide	Johnson Co., KY	748,000
Osborne Slide	Johnson Co., KY	500,000
Big Fork Creek Slide	Knott Co., KY	229,690
Hurricane Branch Slide	Pike Co., KY	50,000
Lick Creek Flooding	Anderson Co., TN	97,500
Big Creek Water Pollution (Phase II)	Grundy Co., TN	6,000,000
Smith Cove Road	Van Buren Co., TN	102,200

**REGION III**

Little John #5 Open Shaft	Knox Co., IL	\$ 80,000
Kickapoo Mine Identification	Vermillion Co., IL	99,000
Koval Open Shaft	Guernsey Co., OH	40,000
Fulk Shaft	Mahoning Co., OH	50,000
Lynn Shaft	Mahoning Co., OH	50,000
Osborn Air Shaft	Mahoning Co., OH	20,000
Polcyn Shaft	Tuscarawas Co., OH	40,000

**REGION IV**

Acee Company Shaft	Sebastian Co., AR	\$ 15,000
Carter Open Shaft	Johnson Co., AR	15,000
Allen Open Shaft	Lucas Co., IA	10,000
Jones Open Shaft	Wapello Co., IA	30,000
Cedar Creek Mine Drainage	Callaway Co., MO	2,478,000
Nuewswander Slide	Henry Co., MO	30,000
*Keota Park Water Impoundment	Haskell Co., OK	25,000

**REGION V**

Scranton Mine Subsidence (Phase II)	Bowman Co., ND	\$ 230,000
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TOTAL—All Regions \$13,626,824

\*1978 \$ 1,319,000  
1979 \$12,307,824

## Projects With Eligibility Determined but Scope of Work Not Developed

### REGION III

M.E. Coal Inclined Shaft	Jackson Co., IL	\$ 25,000
Shipman Mine Open Shaft	Macoupin Co., IL	25,000
Superior #1 Open Shaft	Macoupin Co., IL	50,000

### REGION IV

Jordano Highwall	Bates Co., MO	\$ 75,000
Woods-Wilson Highwall	Clark Co., MO	50,000
Phillips-Rasmussen Highwall	Randolph Co., MO	190,000
Lumsden Highwall	Hopkins Co., TX	60,000
Wallace Spoil Slides	Hopkins Co., TX	80,000

TOTAL—All Regions

\$ 555,000

\*1978

NONE

1979

\$ 555,000

## Projects Identified With No Other Action Taken

### REGION I

Western City Park Slide	Allegany Co., MD	\$ 40,000
Amish Road Highwall	Garrett Co., MD	100,000
McCulloch Mine Drainage	Garrett Co., MD	50,000
Tablerock Strip Mine Highwall	Garrett Co., MD	100,000
W. Mifflin Mine Water Impoundment (Phase II)	Allegheny Co., PA	60,000
Cordek Sluiceway Subsidence	Cambria Co., PA	3,000
Gileot Mine Drainage	Jefferson Co., PA	115,000
Waddel Shaft	Luzerne Co., PA	20,000
Rebrook Mine Drainage Impoundment	Harrison Co., WV	400,000
Shinnston Underground Water Impoundment	Harrison Co., WV	200,000
Stonewood Anmoore Landslide	Harrison Co., WV	1,650,000
Carswell Refuse Pile	McDowell Co., WV	2,000,000
Warwood Mine Drainage Impoundment	Ohio Co., WV	2,000,000

**Projects Identified With No Other Action Taken (Cont'd)**

**REGION II**

Trafford Water Impoundment	Jefferson Co., AL	\$ 100,000
Brilliant Strip Mine Highwall	Marion Co., AL	200,000
Williams Branch Slides (Phase I)	Belle Co., KY	500,000
North Fork of Kentucky River	Floyd Co., KY	100,000
Spradlin Branch Slide	Floyd Co., KY	500,000
White City Flooding	Hopkins Co., KY	500,000
Stinking Creek Sedimentation	Knox Co., KY	500,000
Yellow Creek Sedimentation	Knox Co., KY	500,000
Clifford Sedimentation	Lawrence Co., KY	500,000
Lick Branch Sedimentation	Lawrence Co., KY	500,000
Mill Creek Slides	Lawrence Co., KY	500,000
Hurricane Branch of Kentucky River	Leslie Co., KY	50,000
Fleming-Neon Sedimentation	Letcher Co., KY	500,000
Emily Creek Sedimentation	Martin Co., KY	500,000
Little Laurel Creek Sedimentation	Martin Co., KY	500,000
Peter Cave Branch Sedimentation	Martin Co., KY	500,000
Rockhouse Fork Sedimentation	Martin Co., KY	500,000
Strafford Fork Sedimentation	Martin Co., KY	500,000
Trace Fork Sedimentation	Martin Co., KY	500,000
Barrenshee Sedimentation	Pike Co., KY	1,000,000
Big Creek Sedimentation	Pike Co., KY	500,000
Elkins Fork Sedimentation	Pike Co., KY	500,000
New Alma Sedimentation	Pike Co., KY	500,000
Peter Creek Sedimentation	Pike Co., KY	500,000
Taylor Fork Slide	Pike Co., KY	500,000
Hickory Creek Sedimentation	Campbell Co., TN	500,000
Tackett Creek Slide	Campbell Co., TN	100,000

**REGION III**

Glenns Run Slide	Belmont Co., OH	\$ 25,000
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**TOTAL—All Regions** \$18,813,000

\*1978

1979

NONE  
\$18,813,000

### III-1 Initial Regulatory Program Support Grants and Permanent Regulatory Program Development Grants to States, Fiscal Years 1978 and 1979

State	State Funding (for State's Base Regula- tory Program <sup>a)</sup> )	Initial Regulatory Program Support Grants		Permanent Regulatory Program Development Grants	
		OSM Grant FY 1978	OSM Grant FY 1979	OSM Grant FY 1978	OSM Grant FY 1979
Alabama	\$ 267,952	\$ 230,012	\$ 486,936	\$ —	\$ —
Alaska <sup>b</sup>	N.A.	—	—	—	—
Arizona <sup>c</sup>	N.A.	—	—	—	—
Arkansas	24,720	65,055	152,496	—	73,465
Colorado	77,784	42,281	254,069	71,007	264,395
Georgia <sup>d</sup>	—	—	—	—	—
Illinois	265,012	398,435	1,000,000	—	—
Indiana <sup>e</sup>	?	—	—	—	—
Iowa	53,902	44,599	83,310	20,000	8,600
Kansas	8,429	48,379	95,343	—	41,632
Kentucky	3,089,442	2,133,018	5,708,043	1,565,622	863,929
Louisiana <sup>c</sup>	N.A.	—	—	—	102,811
Maryland	185,063	158,640	122,412	—	395,560
Mississippi <sup>c</sup>	N.A.	—	—	—	116,244
Missouri	64,879	46,412	164,218	125,744	—
Montana	244,075	58,111	87,644	—	150,966
New Mexico	39,947	67,742	139,744	—	149,954
North Dakota	128,836	248,375	199,409	462,624	589,200
Ohio	762,056	370,541	1,500,000	—	—
Oklahoma	49,050	121,182	468,249	205,462	—
Pennsylvania	3,120,870	232,920	1,052,602	—	—
Tennessee	656,447	26,240	534,162	—	—
Texas	245,487	196,089	208,951	—	185,634
Utah	63,798	62,000	146,556	—	141,380
Virginia	748,254	626,155	786,490	285,989	71,497
Washington <sup>d</sup>	?	—	—	—	—
West Virginia	2,888,412	882,541	1,222,152	—	—
Wyoming	179,438	38,201	482,721	288,625	—
TOTAL OSM GRANTS TO STATES:		\$6,096,928	\$14,895,507	\$3,025,073	\$3,155,267

<sup>a</sup> These figures reflect State funding of surface coal mining regulatory program before initial regulatory program performance standards took effect.

<sup>b</sup> The Act requires a special study in Alaska to determine which provisions of the Act need modification before being applied in Alaska.

<sup>c</sup> No current coal production.

<sup>d</sup> State has indicated it does not want responsibility for surface coal mining regulation under permanent regulatory program.

<sup>e</sup> Grants have not been applied for due to on-going litigation by State.

SMALL OPERATOR ASSISTANCE PROGRAM  
GRANTS TO STATES—FY 1979

<i>State</i>	<i>Administration Grant</i>	<i>Operational Grant</i>
<b>Alabama</b>	\$125,000	\$873,000
<b>Illinois</b>	\$ 22,500	\$290,000
<b>Kansas</b>		\$ 48,000
<b>Kentucky</b>	\$231,654	\$8,146,000
<b>Maryland</b>	\$ 26,523	\$145,000
<b>Ohio</b>	\$ 97,065	\$699,000
<b>Oklahoma</b>		\$208,600
<b>Virginia</b>	\$ 62,275	\$925,000
<b>West Virginia</b>	\$111,947	\$582,000
TOTAL:	\$676,964	\$11,916,600

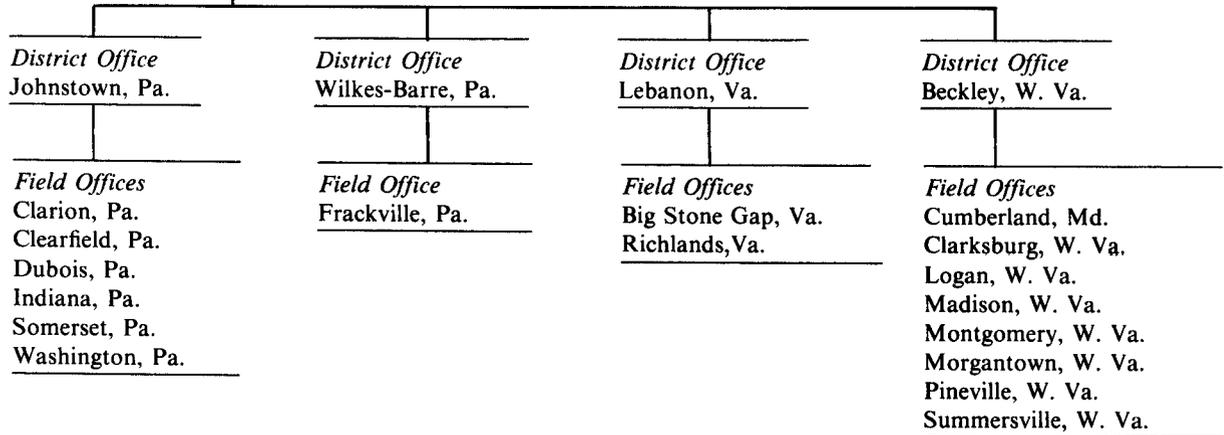
## INSPECTION ACTIVITY SUMMARY FY 1979

<i>Region/State</i>	<i>Number of Inspections</i>	<i>Notices of Violation</i>	<i>Cessation Orders</i>	<i>Citizen Complaints</i>
<b>REGION I</b>				
Maryland	199	23	0	0
Pennsylvania	2178	406	41	162
Virginia	618	145	15	7
West Virginia	<u>3053</u>	<u>537</u>	<u>61</u>	<u>44</u>
Total	6048	1111	117	213
<b>REGION II</b>				
Alabama	734	176	56	30
Georgia	14	2	0	1
Kentucky	3473	823	186	203
Tennessee	<u>1064</u>	<u>284</u>	<u>159</u>	<u>49</u>
Total	5285	1285	401	283
<b>REGION III</b>				
Illinois	452	88	8	2
Indiana	576	135	20	24
Ohio	<u>751</u>	<u>272</u>	<u>25</u>	<u>19</u>
Total	1779	495	53	45
<b>REGION IV</b>				
Arkansas	73	10	6	0
Iowa	30	6	0	0
Kansas	74	10	0	5
Louisiana	3	0	0	0
Missouri	106	16	8	2
Oklahoma	283	45	12	2
Texas	<u>25</u>	<u>2</u>	<u>1</u>	<u>0</u>
Total	594	89	27	9
<b>REGION V</b>				
Arizona	0	0	0	0
Colorado	91	38	4	0
Montana	15	5	0	0
New Mexico	11	2	0	0
North Dakota	16	5	0	2
Oregon	1	0	0	0
Utah	46	8	0	2
Washington	4	0	0	0
Wyoming	<u>42</u>	<u>17</u>	<u>0</u>	<u>0</u>
Total	226	75	4	4
<b>GRAND TOTAL</b>	<b>13,932</b>	<b>3,055</b>	<b>602</b>	<b>554</b>

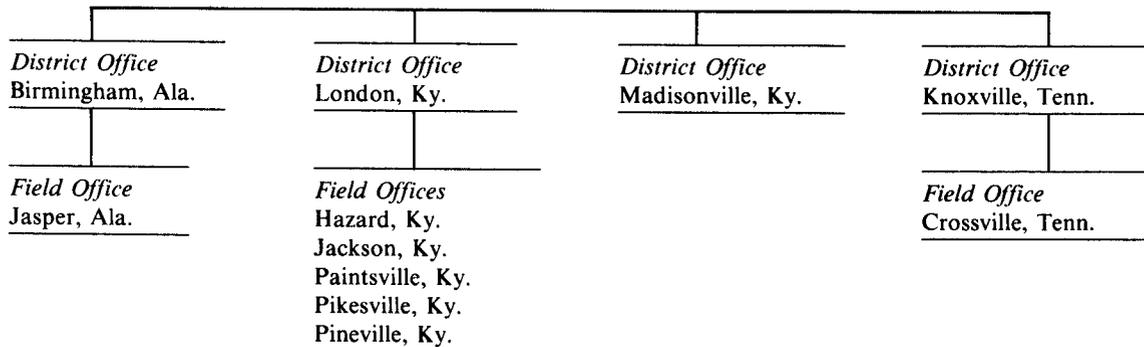
**Office of Surface Mining Field Organization: Locations of Regional, District, and Field Offices as of September 30, 1979**

**WASHINGTON HEADQUARTERS—Washington, D.C.**

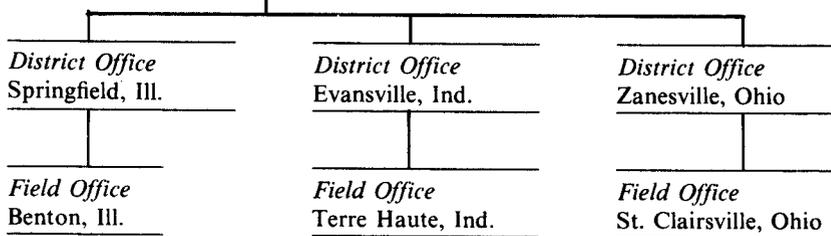
**REGION I—Charleston, W. Va.**



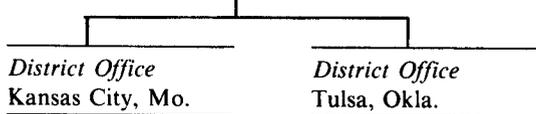
**REGION II—Knoxville, Tenn.**



**REGION III—Indianapolis, Ind.**



**REGION IV—Kansas City, Mo.**



**REGION V—Denver, Colo.**

**IV-1 Fiscal Year 1979 Research Grants to State Mining and Mineral Resources and Research Institutes**

<i>State</i>	<i>Mineral Institute</i>	<i>No. of Research Projects</i>	<i>OSM Grant</i>
Alabama	University of Alabama <sup>a</sup>	3	\$ 192,102
Alaska	University of Alaska, Fairbanks	1	59,637
Arizona	University of Arizona, Tucson	1	77,597
California	University of California, Berkeley	3	138,932
Colorado	Colorado School of Mines, Golden	3	124,626
Idaho	University of Idaho, Moscow	1	68,922
Illinois	Southern Illinois University, Carbondale	5	273,181
Kentucky	University of Kentucky, Lexington	4	195,013
Massachusetts	Massachusetts Institute of Technology, Cambridge	1	52,700
Michigan	Michigan Technological University <sup>a</sup> , Houghton	0 <sup>b</sup>	—0—
Minnesota	University of Minnesota, Minneapolis	1	100,573
Mississippi	University of Mississippi	1	54,857
Missouri	University of Missouri, Rolla	1	57,064
Montana	Montana College of Mineral Science and Technology	4	253,698
New Mexico	New Mexico Institute of Mining & Technology, Socorro	3	178,046
Ohio	Ohio State University, Columbus	5	261,983
Oklahoma	University of Oklahoma, Norman	2	55,037
Pennsylvania	Pennsylvania State University, State College	5	235,568
Texas	University of Texas, Austin	1	49,761
Utah	University of Utah, Salt Lake City	4	208,813
West Virginia	West Virginia University, Morgantown	1	80,080
Wyoming	University of Wyoming, Laramie	1	19,536
TOTALS		51	\$2,727,726

<sup>a</sup> Designated a Mining and Mineral Resources and Research Institute in FY 1979; all others were designated in FY 1978.

<sup>b</sup> Project was withdrawn by Mineral Institute.

**Office of Surface Mining (OSM) Funded Scholarships and Fellowships for  
Academic Years 1978-79 and 1979-80 Combined**

DEGREE FIELDS	ACADEMIC LEVELS					
	Undergraduate		Graduate		Post-Doctoral	
	No of Recipients	Total Amount	No. of Recipients	Total Amount	No. of Recipients	Total Amount
Mining Engineering	68	54,374	30	164,120	3	43,000
Extractive Metallurgy	34	25,000	20	113,675	4	69,000
Ceramic (Process) Eng.	14	8,500	4	23,200	1	15,000
Mineral Processing	15	9,750	12	54,180	3	35,938
Petroleum Eng.	60	52,150	5	24,800		
Mineral Economics	1	1,000	15	60,500	1	9,000
Fuel Science	5	4,500	7	33,700	1	9,000
Geological Engineering	34	33,900	15	59,780	1	13,000
Geological Disciplines	19	17,600	18	81,927	1	24,000
Environmental Engineering	10	10,800				
Reclamation	4	8,000	7	53,314		
Environmental Disciplines	8	8,400	5	24,600		
Chemical Disciplines	3	3,000	4	16,800		
Mineral Sciences	15	11,000				
Mineral Law Research			2	6,500		
Agricultural Disciplines	7	No funds	6	2,500		
TOTAL:	297	24,797	150	719,596	15	217,938

GRAND TOTAL: 462 Scholarships in the amount of \$1,185,508

**Topical Areas Funded For FY 1979 Research Grants**

Topical Areas	No. of Pre-proposals Submitted	Proposed First Year Cost	Approximately 15% of the Total Submitted	First Year Cost
Exploration	66	\$ 3,247,824	13	\$ 683,486
Extraction	49	3,123,214	7	473,178
Processing	43	1,960,565	6	315,528
Mine Development	6	276,048	1	31,522
Mine Processing	4	189,779	1	35,648
Mining and Mineral Technology	32	1,672,463	5	328,876
Supply and Demand	13	799,714	1	58,000
Conservation and Best Use	20	1,001,319	3	131,834
Economic Legal and Social Aspects	38	2,397,677	3	137,877
Reclamation	70	3,462,683	6	307,027
Minerals Research	31	1,531,023	5	224,750
Totals	372	\$19,662,309	51	\$2,727,726

## Highlights of the 1979 Fiscal Year for the Mining and Mineral Resources and Research Institutes

**University of Alabama:** The Director of the Mineral Institute joined with representatives of Kentucky, Missouri, Oklahoma, Mississippi and Texas, and OSM to discuss joint research interests in the various states. The Mineral Institute co-sponsored the Second Annual Mining Institute held April 11-13, 1979, and a two-day conference—Erosion Control and Revegetation for Surface Mining Operations—held on September 25-26, 1979.

**University of Alaska:** A conference on "Alaskan Placer Mining" with the emphasis on gold recovery systems was held April 3-4, 1979. The conference was an outstanding success with approximately 350 people in attendance. Ten research projects concerning mining problems unique to Alaska are under way.

**University of Arizona:** The Mine Reclamation Center was established as an integral unit of the Mineral Institute. The specific activity of the Mine Reclamation Center is to provide a focal point for interdisciplinary expertise on the University of Arizona campus that addresses the problems of mine reclamation in the Southwest. The Institute also participates in SEAMALERT which is a quarterly literature reporting service on mined-land reclamation literature and SEAMINFO which is a cumulative bibliographic data base of references to mined-land reclamation literature.

**University of California-Berkeley:** Effort has continued in planning and initiating mining and mineral engineering programs. Training and research programs are being directed towards three broad areas of mineral resources: (1) Exploration, (2) Mining and Extraction, and (3) Processing of mineral raw materials. A mini-computer system is being acquired. Subcommittees have been established to coordinate and advise the Director on the Institute's training and research activities.

**Colorado School of Mines:** One of the primary efforts of the Institute have been directed towards procedural assistance to the small mine operator in Colorado. Other studies are concentrating on seam-waves in coal and addressing other problems on coal policy issues and phasing of coal development.

**University of Idaho:** The Institute established a Research Review Board for seed-grant projects using grant allotment funds. A Landsman Program is being offered to provide training for prospective natural resource land surface managers (mineral lease managers). A geological engineer was added to the staff of the Institute.

**Southern Illinois University, Carbondale:** The operations of the Institute are designed to contribute to the education and training of students within Illinois and to draw upon the research capability of Illinois to contribute to a nationwide research program. The Institute is making progress towards the Statewide identification of research priorities for mining and mineral resources.

**University of Kentucky:** The Institute has accomplished major objectives in developing and disseminating information relative to reclamation. The Institute is co-sponsoring a symposium on Surface Mining Hydrology, Sedimentology, and Reclamation on December 4-7, 1979. Planned improvements to the equipment in the rock mechanics laboratory have been completed.

**Massachusetts Institute of Technology:** The Institute supports through the Library at M.I.T. a monthly publication, "Mining and Mineral Resources Newsletter", which contains information about the Minerals Resources collection at the Library. Funds are used to encourage and support the development of seminars on special topics. The research of several undergraduate students is supported as a result of a competition that was completed in the early part of the academic term.

**Michigan Technological University:** The Institute is using the funds to accomplish research in the areas of mine development and ventilation, coal processing, and iron ore beneficiation and analysis. Also student trips to iron and copper milling facilities were completed and a visiting speaker program on "Metallogeny" was a tremendous success.

**University of Minnesota:** A computer graphics system has been purchased to extend the training and research facilities of the Mining Technology Division. A new division of Process Technology has been established and includes a Plasma Technology Group working on novel metallurgy processes.

**University of Mississippi:** The Institute actively participates with the Directors of the Alabama, Kentucky, Texas, Missouri and Oklahoma Institutes in regular meetings on problems concerning the southern region of the United States. At the present time, work is progressing on a multi-stage research proposal to evaluate the energy, chemical, and economic potential of the southern lignites and to evaluate the environmental impact.

**University of Missouri-Rolla:** The Institute allocated all of its 301 funds to support five research projects which were selected by the Institute's steering committee. To assist the Institute's steering committee, a survey was completed of the industries in Missouri to prioritize ongoing research needs and to solicit recommendations for other research, experiments or demonstration projects judged to be a high priority need of industry.

**Montana College of Mineral Science and Technology:** The Institute developed a Small Mines Program jointly funded by the Montana Bureau of Mines and Geology. The program seeks to identify the problems of "small" mine operators, and organize specific research and training projects to solve their problems. The Institute sponsored conferences and workshops on Early High Strength Mine Backfills, Mine Ventilation Design and Placer Mining which were quite successful.

**New Mexico Institute of Mining and Technology:** The activities were directed towards purchasing urgently needed equipment to improve the quality of certain mineral oriented activities or to create new activities. The Geological and Petroleum Engineering Department hired a professor for teaching and research earlier than anticipated with the Mineral Institute funds.

**Ohio State University:** An Initiation Grants Program was sponsored to provide small grants to stimulate and encourage research in the mining and mineral resources area. The competition for these grants was Statewide and three proposals were funded. In the fields of minerals and mining, seminars were presented in July. A visiting professor, recently hired, will be with the Institute for a one to two-year period.

**University of Oklahoma:** The Oklahoma Mining and Mineral Resources Research Institute has helped focus teaching and research activities of several departments on mineral science and mineral engineering. Emphasis of the research programs has been on coal, petroleum, tar sands, and construction materials in metropolitan areas, with additional studies being conducted in other mineral research areas. Major equipment purchases include a plasmaemission spectrometer for research on coal and petroleum.

**Pennsylvania State University:** Research and instructional programs in Mining Engineering are being expanded and strengthened. A new program of research oriented training for advanced undergraduate students has been provided. An addition was made to the faculty of the Mineral Processing Section.

**University of Texas at Austin:** The first year of the Institute was one of consolidation and organization. Priority areas for research and training were selected. These research areas are: Shallow lignite resources, Deep-basin lignite resources, Resource economics and Texas non-fuel minerals. Laboratory exercises were developed for the Economic Geology courses.

**University of Utah:** The Institute is in new space provided by the University of Utah. The Department of Metallurgy and Metallurgical Engineering has employed Dr. Megura Nagamori, an international expert in high temperature thermodynamics, who will be with the Institute 20 percent of his time. A dedicated computer for the mining ventilation laboratory will soon be operational and interface with the main campus computer system.

**West Virginia University:** The goal chosen by the Institute was to provide a comprehensive research and training program on the surface effects of mining in West Virginia and in the Appalachian Region. To focus on this goal, research projects were selected in the areas of extraction, reclamation, pollution and its control, and impact assessment.

**University of Wyoming:** Students receiving undergraduate scholarships are studying at five community colleges located across the State of Wyoming and at the University of Wyoming. A visiting professor from West Germany conducted courses and seminars on process control for graduate and undergraduate students. The allotment grant monies are being used as seed money for several research areas at the Institute.