

Mining and Mineral Development in the National Parks

March 1994¹

| NPS Region | Number of Active Operations | | Number of Abandoned Sites | | | Administrative Mineral Materials Sites | | Number of Park Units Affected |
|-------------------|-----------------------------|-------------|---------------------------|---------------|-------------------|--|---------------------|-------------------------------|
| | Mining ² | Oil and Gas | Mine Sites | Mine Openings | Oil and Gas Wells | Abandoned and Unidentified Status | Active and Inactive | |
| Alaska | 9 | 0 | 459 | 461 | 12 | 73 | 32 | 14 |
| Mid-Atlantic | 6 | 12 | 202 | 1157 | 13 | 15 | 4 | 11 |
| Midwest | 6 | 95 | 87 | 162 | 57 | 60 | 3 | 18 |
| National Capital | 0 | 0 | 9 | 24 | 0 | 0 | 0 | 3 |
| North Atlantic | 0 | 0 | 15 | 15 | 0 | 12 | 0 | 3 |
| Pacific Northwest | 7 | 0 | 53 | 91 | 3 | 34 | 14 | 9 |
| Rocky Mountain | 1 | 0 | 312 | 746 | 54 | 164 | 15 | 27 |
| Southeast | 1 | 257 | 164 | 178 | 211 | 293 | 0 | 14 |
| Southwest | 4 | 206 | 65 | 150 | 331 | 32 | 10 | 20 |
| Western | 7 | 0 | 763 | 7675 | 46 | 143 | 87 | 27 |
| Total | 41 | 570 | 2,129 | 10,659 | 727 | 826 | 165 | 146 |

¹ Mining claim data has been omitted as the NPS is awaiting BLM statistics on claim status. Changes in the rental and filing fees implemented July 15, 1993 are expected to reduce significantly the number of unpatented claims in park units.

² Includes operations on mining claims and nonfederal operations other than oil and gas.

Summary of Active Mineral Operations Inside NPS Units

March 1994

| Region | Park | State | Operations on Mining Claims ¹ | Nonfederal Oil and Gas Operations ² | Nonfederal Mineral Operations other than Oil and Gas ³ | Total Active Operations |
|--------------------------|--------------------------------|-------|--|--|---|-------------------------|
| Alaska Region | Bering Land Bridge NP | AK | 1 GOLD | 0 | 0 | 1 |
| | Cape Krusenstern NM | AK | 0 | 0 | 4 SAND & GRAVEL(3)/SHIPPING PORT/HAUL ROAD | 4 |
| | Kenai Fjords NP | AK | 1 GOLD | 0 | 0 | 1 |
| | Lake Clark NP&P | AK | 0 | 0 | 1 GOLD | 1 |
| | Wrangell-St. Elias NP&P | AK | 2 GOLD | 0 | 0 | 2 |
| Mid-Atlantic Region | Allegheny Portage Railroad NHS | PA | 0 | 0 | 1 COAL ⁴ | 1 |
| | Gauley River NRA | WV | 0 | 11 | 0 | 11 |
| | New River Gorge NR | WV | 0 | 1 | 1 COAL | 2 |
| | Upper Delaware NS&RR | PA | 0 | 0 | 4 SAND & GRAVEL | 4 |
| Midwest Region | Cuyahoga Valley NRA | OH | 0 | 95 | 1 HAYDITE | 96 |
| | Hopewell Culture NHP | OH | 0 | 0 | 1 SAND & GRAVEL | 1 |
| | Saint Croix NSR | WI | 0 | 0 | 4 SAND & GRAVEL | 4 |
| Pacific Northwest Region | Lake Chelan NRA | WA | 0 | 0 | 3 SAND & GRAVEL | 3 |
| | Ross Lake NRA | WA | 0 | 0 | 4 SAND & GRAVEL/TOP-SOIL | 4 |
| Rocky Mountain Region | Curecanti NRA | CO | 0 | 0 | 1 DECOMPOSED GRANITE | 1 |

| Region | Park | State | Operations on Mining Claims ¹ | Nonfederal Oil and Gas Operations ² | Nonfederal Mineral Operations other than Oil and Gas ³ | Total Active Operations |
|------------------|----------------------------|-------|--|--|---|-------------------------|
| Southeast Region | Big Cypress NP | FA | 0 | 33 | 0 | 33 |
| | Big South Fork NR&RA | TN | 0 | 223 | 0 | 223 |
| | Chattahoochee River NRA | GA | 0 | 0 | 1 SAND & GRAVEL | 1 |
| | Obed Wild and Scenic River | TN | 0 | 1 | 0 | 1 |
| Southwest Region | Alibates Flint Quarries NM | TX | 0 | 1 | 0 | 1 |
| | Aztec Ruins NM | NM | 0 | 3 | 0 | 3 |
| | Big Thicket NP | TX | 0 | 19 | 1 SAND & GRAVEL | 20 |
| | El Malpais NM | NM | 0 | 0 | 1 CINDER | 1 |
| | Hot Springs NP | AR | 0 | 0 | 1 NOVACULITE | 1 |
| | Jean Lafitte NHP&P | LA | 0 | 1 | 0 | 1 |
| | Lake Meredith NRA | TX | 0 | 172 | 0 | 172 |
| | Padre Island NS | TX | 0 | 8 | 0 | 8 |
| | Poverty Point NM | LA | 0 | 2 | 0 | 2 |
| | Salinas Pueblo Mission NM | NM | 0 | 0 | 1 STONE | 1 |
| Western Region | Death Valley NM | CA | 2 GOLD/BORAX | 0 | 0 | 2 |
| | Point Reyes NS | CA | 0 | 0 | 5 SAND & GRAVEL | 5 |
| TOTAL | | | 6 | 570 | 35 | 611 |

1. Operations subject to 36 CFR 9A regulations.

2. Includes active and temporarily shut-in wells. Operations are subject to 36 CFR 9B regulations. Exceptions include grandfathered operations or where access across federal surface is not required.

3. Currently not subject to NPS mineral regulations. Includes active and temporarily suspended operations.

4. Operation is permitted but has not started operating.

Active Oil and Gas Operations in NPS Units

March 1994

| Park | State | Grandfathered Existing Operations | Post '79 - No Access Required | Regulated Operations | Regulable Operations ¹ | Park Total Active Operations | Park Total Active Operators |
|----------------------------|-------|-----------------------------------|-------------------------------|----------------------|-----------------------------------|------------------------------|-----------------------------|
| Gauley River NRA | WV | 11 | 0 | 0 | 0 | 11 | 3 |
| New River Gorge NR | WV | 1 | 0 | 0 | 0 | 1 | 1 |
| Cuyahoga Valley NRA | OH | 16 | 48 | 4 | 27 | 95 | 19 |
| Big Cypress NP | FL | 12 | 0 | 21 | 0 | 33 | 2 |
| Big South Fork NR&RA | TN | 223 | 0 | 0 | 0 | 223 | 35 |
| Obed Wild and Scenic River | TN | 1 | 0 | 0 | 0 | 1 | 1 |
| Alibates Flint Quarries NM | TX | 1 | 0 | 0 | 0 | 1 | 1 |
| Aztec Ruins NM | NM | 3 | 0 | 0 | 0 | 3 | 2 |
| Big Thicket NP | TX | 3 | 0 | 6 | 10 | 19 | 10 |
| Jean Lafitte NHP&P | LA | 1 | 0 | 0 | 0 | 1 | 1 |
| Lake Meredith NRA | TX | 70 | 0 | 82 | 20 | 172 | 21 |
| Padre Island NS | TX | 0 | 0 | 6 | 2 | 8 | 5 |
| Poverty Point NM | LA | 2 | 0 | 0 | 0 | 2 | 1 |
| Total | | 344 | 48 | 119 | 59 | 570 | 102 |

¹ May be regulable due to change in status of operator.

Abandoned Mineral Land Inventory¹

January 1994

| Region | State | Park | No. of Mine Sites | No. of Openings | No. of Oil and Gas Wells |
|---------------------|-------|---|-------------------|-----------------|--------------------------|
| Alaska Region | AK | Bering Land Bridge National Preserve | 1 | 1 | 0 |
| | AK | Cape Krusenstern National Monument | 1 | 1 | 0 |
| | AK | Denali National Park and Preserve | 25 | 25 | 0 |
| | AK | Gates of the Arctic National Park and Preserve | 7 | 7 | 0 |
| | AK | Glacier Bay National Park and Preserve | 2 | 2 | 0 |
| | AK | Kenai Fjords National Park | 16 | 18 | 0 |
| | AK | Klondike Gold Rush National Historical Park | 1 | 1 | 0 |
| | AK | Kobuk Valley National Park | 2 | 2 | 0 |
| | AK | Noatak National Preserve | 1 | 1 | 0 |
| | AK | Wrangell-St. Elias National Park and Preserve | 404 | 404 | 12 |
| | AK | Yukon-Charley Rivers National Preserve | 6 | 6 | 0 |
| Mid-Atlantic Region | PA | Allegheny Portage Railroad National Historic Site | 4 | 17 | 0 |
| | VA | Colonial National Historical Park | 1 | 1 | 0 |
| | PA | Delaware Water Gap National Recreation Area | 29 | 35 | 0 |
| | PA | Fort Necessity National Battlefield | 0 | 0 | 0 |
| | PA | Friendship Hill National Historic Site | 3 | 16 | 3 |
| | VA | Fredericksburg National Cemetery | 2 | 2 | 0 |
| | WV | Gauley River National Recreation Area | 5 | 5 | 5 |
| | WV | New River Gorge National River | 116 | 1034 | 5 |
| | VA | Shenandoah National Park | 3 | 9 | 0 |
| | PA | Steamtown National Historic Site | 1 | 0 | 0 |
| | NY | Upper Delaware Scenic and Recreation River | 30 | 30 | 0 |
| | PA | Valley Forge National Historical Park | 8 | 8 | 0 |
| Midwest Region | WI | Apostle Islands National Lakeshore | 4 | 9 | 0 |
| | OH | Cuyahoga Valley National Recreation Area | 23 | 31 | 57 |
| | MO | George Washington Birthplace National Monument | 1 | 6 | 0 |
| | IN | Indiana Dunes National Lakeshore | 3 | 6 | 0 |
| | MI | Isle Royale National Park | 14 | 35 | 0 |
| | IN | Lincoln Boyhood National Memorial | 1 | 1 | 0 |
| | WI | Lower Saint Croix National Scenic Riverway | 6 | 10 | 0 |
| | OH | Mound City Group National Monument | 1 | 1 | 0 |

¹ This inventory is ongoing. The data was last updated in January 1994.

| Region | State | Park | No. of Mine Sites | No. of Openings | No. of Oil and Gas Wells |
|--------------------------|-------|--|-------------------|-----------------|--------------------------|
| | MO | Ozark National Scenic Riverways | 1 | 1 | 0 |
| | MI | Pictured Rocks National Lakeshore | 2 | 2 | 0 |
| | WI | Saint Croix National Scenic Riverway | 6 | 15 | 0 |
| | NE | Scotts Bluff National Monument | 1 | 1 | 0 |
| | MI | Sleeping Bear Dunes National Lakeshore | 9 | 19 | 0 |
| | MN | Voyageurs National Park | 13 | 22 | 0 |
| | MO | Wilson's Creek National Battlefield | 2 | 3 | 0 |
| North Atlantic Region | ME | Acadia National Park | 13 | 13 | 0 |
| | MA | Cape Cod National Seashore | 1 | 1 | 0 |
| | NY | Saratoga National Historical Park | 1 | 1 | 0 |
| National Capital Region | MD | Chesapeake & Ohio Canal National Historic Park | 3 | 8 | 0 |
| | DC | National Capital Parks | 4 | 4 | 0 |
| | VA | Prince William Forest Park | 2 | 12 | 0 |
| Pacific Northwest Region | ID | City of Rocks National Reserve | 3 | 3 | 0 |
| | WA | Coulee Dam National Recreation Area | 7 | 7 | 0 |
| | ID | Craters of the Moon National Monument | 1 | 3 | 0 |
| | WA | Lake Chelan National Recreation Area | 7 | 7 | 0 |
| | WA | Mount Rainier National Park | 12 | 21 | 0 |
| | WA | North Cascades National Park | 23 | 47 | 0 |
| | WA | Olympic National Park | 4 | 4 | 3 |
| | WA | Ross Lake National Recreation Area | 10 | 13 | 0 |
| Rocky Mountain Region | UT | Arches National Park | 1 | 1 | 0 |
| | WY | Bighorn Canyon National Recreation Area | 15 | 300 | 0 |
| | CO | Black Canyon of the Gunnison National Monument | 1 | 1 | 0 |
| | UT | Bryce Canyon National Park | 1 | 1 | 0 |
| | UT | Canyonlands National Park | 18 | 57 | 14 |
| | UT | Capitol Reef National Park | 22 | 57 | 1 |
| | CO | Colorado National Monument | 5 | 9 | 0 |
| | CO | Curecanti National Recreation Area | 4 | 8 | 0 |
| | CO/UT | Dinosaur National Monument | 1 | 9 | 0 |
| | WY | Fossil Butte National Monument | 0 | 0 | 1 |
| | WY | Fort Laramie National Historic Site | 1 | 1 | 0 |
| | MT | Glacier National Park | 17 | 17 | 10 |
| | UT | Glen Canyon National Recreation Area | 11 | 30 | 26 |
| | MT | Grant-Kohrs Ranch National Historic Site | 1 | 1 | 0 |

| Region | State | Park | No. of Mine Sites | No. of Openings | No. of Oil and Gas Wells |
|------------------|----------|--|-------------------|-----------------|--------------------------|
| | CO | Great Sand Dunes National Monument | 2 | 7 | 0 |
| | WY | Grand Teton National Park | 38 | 41 | 0 |
| | WY | John D. Rockefeller, Jr. Memorial Parkway | 1 | 1 | 0 |
| | CO | Mesa Verde National Park | 0 | 0 | 1 |
| | CO | Rocky Mountain National Park | 5 | 28 | 0 |
| | ND | Theodore Roosevelt National Park | 1 | 1 | 0 |
| | UT | Timpanogos Cave National Monument | 4 | 4 | 0 |
| | WY | Yellowstone National Park | 160 | 160 | 0 |
| | UT | Zion National Park | 3 | 12 | 1 |
| Southeast Region | GA | Andersonville National Historic Site | 1 | 1 | 0 |
| | FL | Big Cypress National Preserve | 0 | 0 | 48 |
| | KY/TN | Big South Fork National River & Recreation Area | 125 | 125 | 146 |
| | VA | Blue Ridge Parkway | 1 | 1 | 0 |
| | GA | Chickamauga & Chattanooga National Memorial Park | 1 | 4 | 0 |
| | KY/VA/TN | Cumberland Gap National Historical Park | 1 | 2 | 0 |
| | FL | Everglades National Park | 17 | 17 | 5 |
| | TN/NC | Great Smoky Mountains National Park | 2 | 11 | 0 |
| | AL | Horseshoe Bend National Military Park | 2 | 2 | 0 |
| | SC | Kings Mountain National Military Park | 1 | 1 | 0 |
| | KY | Mammoth Cave National Park | 7 | 7 | 10 |
| | MS/AL/TN | Natchez Trace Parkway | 3 | 3 | 1 |
| | TN | Obed Wild & Scenic River | 3 | 4 | 1 |
| Southwest Region | TX | Amistad Recreation Area | 1 | 1 | 0 |
| | NM | Aztec Ruins National Monument | 0 | 0 | 1 |
| | TX | Big Bend National Park | 17 | 38 | 0 |
| | TX | Big Thicket National Preserve | 0 | 0 | 116 |
| | AR | Buffalo National River | 23 | 69 | 0 |
| | NM | Chaco Culture National Historic Park | 2 | 2 | 18 |
| | OK | Chickasaw National Recreation Area | 1 | 1 | 11 |
| | NM | El Malpais National Monument | 5 | 7 | 0 |
| | TX | Guadalupe Mountains National Park | 1 | 17 | 0 |
| | AR | Hot Springs National Park | 8 | 8 | 0 |
| | LA | Jean Lafitte National Historical Park | 0 | 0 | 45 |
| | TX | Lake Meredith National Recreation Area | 6 | 6 | 65 |
| | TX | Padre Island National Seashore | 0 | 0 | 65 |

| Region | State | Park | No. of Mine Sites | No. of Openings | No. of Oil and Gas Wells |
|----------------|-------|---|-------------------|-----------------|--------------------------|
| Western Region | LA | Poverty Point National Monument | 0 | 0 | 10 |
| | AZ | Wupatki National Monument | 1 | 1 | 0 |
| | AZ | Chiricahua National Monument | 3 | 14 | 0 |
| | CA | Channel Islands National Park | 0 | 0 | 16 |
| | AZ | Coronado National Memorial | 5 | 35 | 0 |
| | CA | Death Valley National Monument | 257 | 4600 | 0 |
| | AZ | Fort Bowie National Historic Site | 5 | 16 | 0 |
| | CA | Golden Gate National Recreation Area | 6 | 9 | 0 |
| | NV | Great Basin National Park | 6 | 85 | 0 |
| | AZ | Grand Canyon National Park | 16 | 37 | 0 |
| | CA | Joshua Tree National Monument | 165 | 2000 | 0 |
| | CA | Kings Canyon National Park | 4 | 4 | 0 |
| | CA | Lava Beds National Monument | 2 | 2 | 0 |
| | NV/AZ | Lake Mead National Recreation Area | 43 | 300 | 0 |
| | CA | Lassen Volcanic National Park | 3 | 3 | 1 ² |
| | AZ | Organ Pipe Cactus National Monument | 12 | 160 | 0 |
| | AZ | Petrified Forest National Park | 0 | 0 | 1 |
| | CA | Pinnacles National Monument | 1 | 6 | 0 |
| | CA | Point Reyes National Seashore | 21 | 15 | 0 |
| | CA | Redwood National Park | 18 | 18 | 0 |
| | AZ | Saguaro National Monument | 137 | 282 | 0 |
| | CA | Santa Monica Mountains National Recreation Area | 0 | 0 | 28 |
| | CA | Sequoia National Park | 12 | 12 | 0 |
| | AZ | Tuzigoot National Monument | 1 | 1 | 0 |
| | CA | Whiskeytown Unit/Whiskeytown-Shasta-Trinity NRA | 36 | 42 | 0 |
| | CA | Yosemite National Park | 10 | 34 | 0 |
| Total | | | 2,124 | 10,655 | 727 |

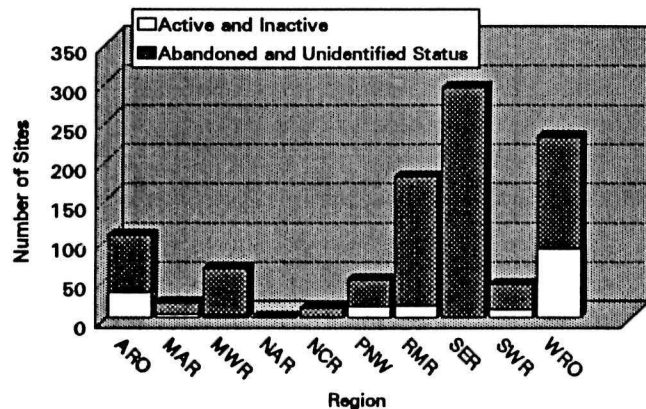
² Geothermal well

Summary of Administrative Mineral Material Sites

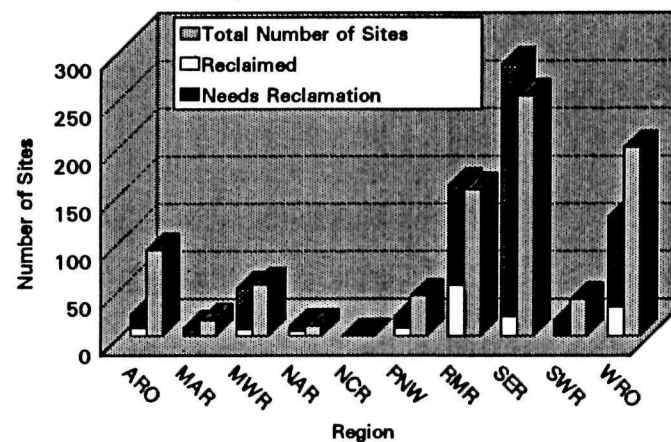
March 1994

| Region/State | Operation Status | | | | Reclamation Status | |
|--------------------------|------------------|---------------------|----------|---------------------|--------------------|-------------------|
| | Abandoned | Inactive and Active | Proposed | Unidentified Status | Reclaimed | Needs Reclamation |
| Alaska Region | 51 | 32 | 0 | 22 | 8 | 15 |
| Mid-Atlantic Region | 11 | 4 | 0 | 4 | 2 | 7 |
| Midwest Region | 27 | 3 | 0 | 33 | 7 | 43 |
| North Atlantic Region | 6 | 0 | 0 | 6 | 5 | 5 |
| Pacific Northwest Region | 33 | 14 | 1 | 1 | 8 | 13 |
| Rocky Mountain Region | 144 | 15 | 0 | 20 | 53 | 105 |
| Southeast Region | 240 | 0 | 0 | 53 | 20 | 265 |
| Southwest Region | 29 | 10 | 3 | 3 | 3 | 14 |
| Western Region | 107 | 87 | 0 | 36 | 30 | 95 |
| TOTALS | 648 | 165 | 4 | 178 | 136 | 562 |

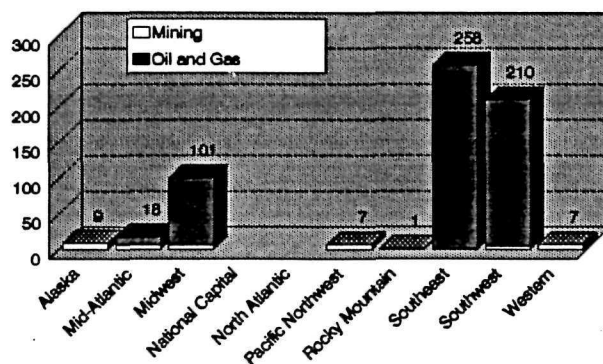
Status of Mineral Material Sites by Region



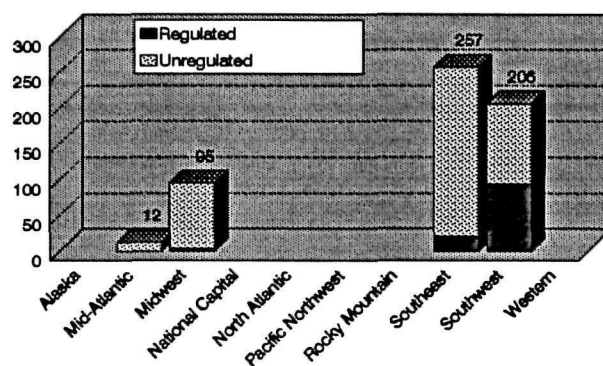
Reclamation Status by Region



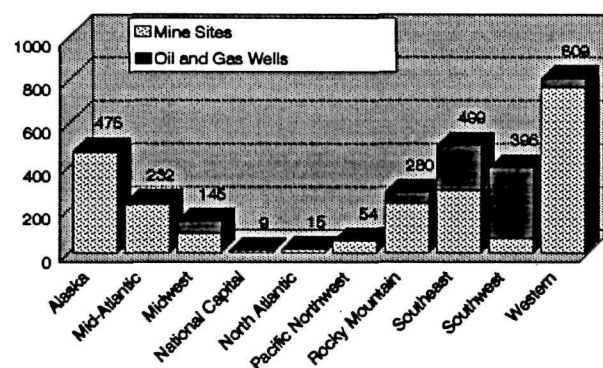
Active Operations by Region



Active Oil and Gas Operations by Region



Abandoned Mineral Lands by Region



Summary of Administrative Mineral Material Sites

March 1994

| Region/State | Operation Status | | | | | |
|--------------------------|------------------|-------------------|----------|---------------------|------------|-------------------|
| | Abandoned | Inactive & Active | Proposed | Unidentified Status | Reclaimed | Needs Reclamation |
| Alaska Region | 51 | 32 | 0 | 22 | 8 | 15 |
| Mid-Atlantic Region | 11 | 4 | 0 | 4 | 2 | 7 |
| Midwest Region | 27 | 3 | 0 | 33 | 7 | 43 |
| North Atlantic Region | 6 | 0 | 0 | 6 | 5 | 5 |
| Pacific Northwest Region | 33 | 14 | 1 | 1 | 8 | 13 |
| Rocky Mountain Region | 144 | 15 | 0 | 20 | 53 | 105 |
| Southeast Region | 240 | 0 | 0 | 53 | 20 | 265 |
| Southwest Region | 29 | 10 | 3 | 3 | 3 | 14 |
| Western Region | 107 | 87 | 0 | 36 | 30 | 95 |
| TOTALS | 648 | 165 | 4 | 178 | 136 | 562 |