

California

Smallest number of permits since 1977

California's coal resources are estimated to be 100 million tons, of which 50 percent is lignite, 40 percent subbituminous, and 10 percent bituminous. The occurrence of coal in California is rather limited and is restricted generally to the foothill regions of the western slopes of the Sierra Nevada Mountains. Significant quantities of coal have been mined in five areas: Ione in Amador County, Alberhill in Riverside County, Stone Canyon in Monterey County, Corral Hollow in Alameda County, and Mount Diablo in Contra Costa County.

Most of the coal was mined in the early 1900's and was used locally for fuel. Recent mining operations are located in Amador County near the city of Ione. These mines supply fuel to a mine-mouth co-generation power plant. The fuel coal is processed prior to burning to extract montan wax. In a 1992 agreement, the Office of Surface Mining determined this coal to be below the quality of lignite and its mining and reclamation exempt from regulation under the Surface Mining Law.

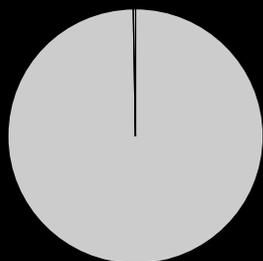
Because California does not have primacy, any future coal mining in the state would be regulated by the Office of Surface Mining's Western Regional Coordinating Center in Denver. This office also completes all emergency and high priority abandoned mine land reclamation in California.

Since 1977, three emergency projects costing \$192,000 have been completed. In addition, five high priority projects costing over \$900,000 have been completed. The largest of these projects eliminated the hazards associated with vertical mine openings and portals in the Mount Diablo area near San Francisco. This abandoned mine site was the scene of four fatalities when people entered the mine and were asphyxiated by "black damp" (carbon dioxide) which had displaced the oxygen in the mine.

Only two priority 2 vertical openings estimated to cost \$10,000 remain on the inventory of abandoned mine hazards in need of reclamation.

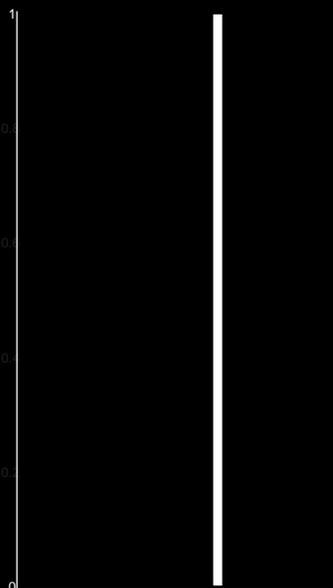
coal production¹⁰

| | 1978 | | 1997 | | 1978-1997 Rank |
|----------------------------------|--------|--------------------|--------|--------------------|----------------|
| | Amount | Percent U.S. Total | Amount | Percent U.S. Total | |
| Tons Produced | | | | | |
| Surface | 0 | 0% | 0 | 0% | 0 |
| Underground | 0 | 0% | 0 | 0% | 0 |
| Lignite | 0 | 0% | 0 | 0% | 5 |
| Total | 0 | 0% | 0 | 0% | 31 |
| Number of Producing Mines | | | | | |
| Surface (bituminous coal) | 0 | 0% | 0 | 0% | 0 |
| Underground | 0 | 0% | 0 | 0% | 0 |
| Lignite (surface) | 0 | 0% | 0 | 0% | 7 |
| Total | 0 | 0% | 0 | 0% | 30 |
| Mine Production | | | | | |
| Average | 0 | 0% | 0 | 0% | |
| >1,000,000 tons | 0 | 0% | 0 | 0% | |
| 300,000-1,000,000 tons | 0 | 0% | 0 | 0% | |
| <300,000 tons | 0 | 0% | 0 | 0% | |



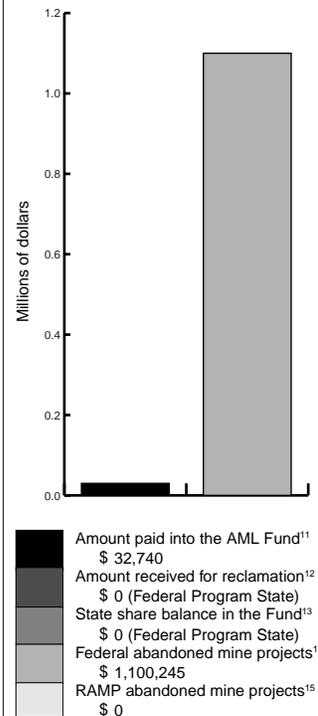
Production tonnage 1978-1997

■ U.S. Total
■ California coal production



Number of new permits 1978-1997

■ Interim Program
■ Permanent Program



■ Amount paid into the AML Fund¹¹
\$ 32,740
■ Amount received for reclamation¹²
\$ 0 (Federal Program State)
■ State share balance in the Fund¹³
\$ 0 (Federal Program State)
■ Federal abandoned mine projects¹⁴
\$ 1,100,245
■ RAMP abandoned mine projects¹⁵
\$ 0

Active mining and reclamation¹⁶

| | 1978 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | Total |
|--------------------------------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| Number of New Permits | | | | | | | | | | | | | | | | | | | | | |
| Surface Mining | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Underground Mining | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Acreage Permitted | | | | | | | | | | | | | | | | | | | | | |
| Surface Mining | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| Underground Mining | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Acreage of Bond Release | | | | | | | | | | | | | | | | | | | | | |
| Interim Prog. (final) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Phase 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Phase 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Phase 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Inspections | | | | | | | | | | | | | | | | | | | | | |
| Complete | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 11 | 12 | 16 | 15 | 15 | 0 | 0 | 0 | 0 | 72 |
| Partial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 14 | 26 | 27 | 32 | 30 | 30 | 0 | 0 | 0 | 0 | 160 |
| Oversight | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Citations Issued | | | | | | | | | | | | | | | | | | | | | |
| NOV's | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 12 |
| CO's | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |

Abandoned coal mine reclamation 1977-1997¹⁷

| | Reclaimed Problems | | | Remaining Problems | |
|---|--------------------|-----------------|---------------|--------------------|------------------|
| | OSM Emergency | State Emergency | Non-Emergency | Number | Estimated Cost |
| Priority 1 & 2 (Protection of Public Health, Safety, and General Welfare) and Emergency Projects | | | | | |
| Clogged Streams (miles) | 0 | 0 | 0 | 0 | \$ 0 |
| Clogged Stream Lands (acres) | 0 | 0 | 0 | 0 | 0 |
| Highwalls (feet) | 0 | 0 | 0 | 0 | 0 |
| Impoundments (count) | 0 | 0 | 0 | 0 | 0 |
| Piles & Embankments (acres) | 0 | 0 | 0 | 0 | 0 |
| Slides (acres) | 3.0 | 0 | 0 | 0 | 0 |
| Gases (count) | 0 | 0 | 0 | 0 | 0 |
| Equipment & Facilities (count) | 0 | 0 | 0 | 0 | 0 |
| Water Bodies (count) | 0 | 0 | 0 | 0 | 0 |
| Industrial Waste (acres) | 0 | 0 | 0 | 0 | 0 |
| Portals (count) | 2.0 | 0 | 28.0 | 0 | 0 |
| Polluted Water: Agriculture & Industrial (count) | 0 | 0 | 0 | 0 | 0 |
| Polluted Water: Human Consumption (count) | 0 | 0 | 0 | 0 | 0 |
| Subsidence (acres) | 1.5 | 0 | 0 | 0 | 0 |
| Surface Burning (acres) | 0 | 0 | 0 | 0 | 0 |
| Underground Mine Fires (acres) | 0 | 0 | 0 | 0 | 0 |
| Vertical Openings (count) | 2.0 | 0 | 38.0 | 2.0 | 10,000 |
| Total | | | | | \$ 10,000 |
| Priority 3 (Environmental Restoration) | | | | | |
| Bench (acres) | 0 | 0 | 0 | 0 | \$ 0 |
| Industrial Waste (acres) | 0 | 0 | 0 | 0 | 0 |
| Equipment & Facilities (count) | 0 | 0 | 0 | 0 | 0 |
| Gob (acres) | 0 | 0 | 0 | 0 | 0 |
| Highwall (feet) | 0 | 0 | 0 | 0 | 0 |
| Haul Road (acres) | 0 | 0 | 0 | 0 | 0 |
| Mine Opening (count) | 0 | 0 | 0 | 3.0 | 2,000 |
| Pit (acres) | 0 | 0 | 0 | 0 | 0 |
| Spoil Area (acres) | 0 | 0 | 0 | 1.0 | 5,500 |
| Slurry (acres) | 0 | 0 | 0 | 0 | 0 |
| Slump (acres) | 0 | 0 | 0 | 0 | 0 |
| Water (gallons/minute) | 0 | 0 | 0 | 0 | 0 |
| Total | | | | | \$ 7,500 |