The Mineral Industry of Hawaii

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Mineral output in Hawaii was about the same as in 1971. Total value was 5% below the 1969 record. The boom in construction had leveled off and was slow to resume the spectacular rise of the 1960's.

Hawaii was severely affected by the West Coast dock strike since the State is dependent on imports for almost every item essential to modern living.

Environmental controls were planned which could limit future growth. Air and water pollution, land and water use and many other environmental factors were studied.

Plans were made to investigate potential geothermal resources.

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Table 1.—Mineral production in Hawaii [1]

Mineral	1971		1972	
	Quantity	Value (thousands)	Quantity	Value (thousands)
Cement:				
Portland ... thousand short tons	375	$10,196	402	$10,732
Masonry ... do	11	431	13	384
Gem stones	NA	54	NA	57
Lime ... thousand short tons	8	228	7	266
Pumice ... do	289	779	379	762
Sand and gravel ... do	836	1,967	609	1,893
Stone [2] ... do	6,056	14,357	5,005	13,494
Value of items that cannot be disclosed:				
Clays, salt, and stone (dimension)	XX	r 95	XX	486
Total	XX	28,107	XX	28,074
Total 1967 constant dollars	XX	23,899	XX	p 23,355

p Preliminary. r Revised. NA Not available. XX Not applicable.
[1] Production as measured by mine shipments, sales, or marketable production (including consumption by producers).
[2] Excludes dimension miscellaneous stone; included with value of items that cannot be disclosed.

Table 2.—Value of mineral production in Hawaii, by county

(Thousands)

County	1971	1972	Minerals produced in 1972 in order of value
Hawaii	$2,155	$2,032	Stone, pumice.
Honolulu	22,976	22,721	Stone, cement, lime, clay, salt.
Kauai	766	741	Stone, sand and gravel, pumice.
Maui	2,210	2,579	Sand and gravel, stone, pumice, lime, gem stones.
Total	28,107	[1] 28,074	

[1] Data does not add to total shown because of independent rounding.

Table 3.—Indicators of Hawaii business activity

		1971	1972 p	Change, percent
Total nonagricultural employment	thousands	301.5	309.5	+2.6
Manufacturing employment	do	24.8	25.2	+1.6
Contract construction	do	23.4	23.1	−1.3
Other nonagricultural employment [1]	do	252.9	261.6	+3.4
Personal income:				
Total	millions	$3,694	$3,991	+8.0
Per capita		$4,738	$4,995	+5.4
Construction activity:				
Number of private and public residential units authorized		12,241	16,083	+31.4
Value of authorized nonresidential construction	millions	$103.4	$101.5	−1.8
Mineral production value	do	$28.1	$28.1	--

p Preliminary.
[1] Includes transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; services; and government.

Sources: Survey of Current Business, Construction Review, Employment and Earnings and Annual Report on the Labor Force, and U.S. Bureau of Mines.

REVIEW BY MINERAL COMMODITIES

NONMETALS

Cement.—Kaiser Cement & Gypsum Corp. operated a cement plant near Nanakuli, and Hawaiian Cement Corp. operated a plant at Barbers Point, both on Oahu, in Honolulu County. Shipments of portland cement increased 7% to 402,100 tons, 2% above the 1970 record. Shipments of masonry cement were a record 12,780 tons, 16% above the 1971 record. The portland cement was consumed for ready-mix concrete (78%), concrete products (13%), building materials (5%), and other uses (4%).

Raw materials used in portland cement included 229,900 tons of limestone and 73,440 tons of basalt which were mined on Oahu; 40,210 tons of silica sand from Australia and New Zealand; and 17,780 tons of gypsum from Mexico.

The two plants consumed 301,000 barrels of fuel oil and purchased 50 million kilowatt-hours of electric energy.

Kaiser completed a new kiln which added 282,000 tons to plant capacity. Hawaiian Cement completed a new kiln which added 291,000 tons to plant capacity.

Clays.—Pacific Clay Corp. mined common clay at Waimanalo, Oahu, in Honolulu County, or use in making face brick.

Gem Stones.—Value of coral collected was estimated at $57,000. The value of retail sales of coral jewelry was estimated at more than $3 million. Coral is present in waters around Hawaii in gold, pink, bamboo, and black colors.

Lime.—GasprO Ltd. and Hawaiian Commercial & Sugar Co., Ltd. produced lime in Honolulu and Maui Counties for sugar refining, steel furnaces, mason's lime, sewage treatment, and water purification. Output decreased 22% to 6,608 tons and was 32% below the 1966 record.

Pumice and Volcanic Cinder.—Seventeen operators produced pumice and volcanic cinder at 17 mines for concrete, roads, landscaping, and fill. Output increased 31% to 379,100 tons and was 8% above the 1970 record. Leading counties were Hawaii and Maui. Leading producers were Volcanite, Ltd., Hilo Coast Processing Co., and Laupahoehoe Sugar Co. Among the States, Hawaii ranked fourth in production of pumice.

Salt.—Tanaka Hawaiian Salt recovered a small quantity of solar salt near Honolulu.

Sand and Gravel.—Eleven operators mines sand and gravel at 11 mines in Maui and Kauai Counties for concrete and roads, fill, and other uses. Output declined 27% to 609,100 tons. Leading producers were HC&D, Ltd., Maui Concrete & Aggregates, Inc., and Louis K. Rego Trucking.

Stone.—Ten operators crushed traprock at 14 quarries for concrete and roads, cement, fill, and other uses. Output declined 21% to 3,596,000 tons, 24% below 1970. Leading counties were Honolulu and Hawaii. Leading producers were Lone Star Industries, HC&D, Ltd., and Pacific Concrete & Rock Co., Ltd.

Eight operators crushed limestone at eight quarries for cement, concrete and roads, fill, lime, landscaping, and other uses. Output increased 4% to 1,229,000 tons and was 2% above 1970. The leading

county was Honolulu. Leading producers were Pacific Concrete & Rock Co., Ltd., Hawaiian Cement Corp., and Kaiser Cement & Gypsum Corp.

Four operators crushed miscellaneous stone at five quarries for concrete and roads and for other uses. Output declined 47% and was 53% below 1970. Leading counties were Honolulu and Hawaii. Leading producers were the Federal Government and Yamada Sons, Inc.

Joe's Moss Rock, Inc., R&R Moss Rock, and James Kuwana quarried a small quantity of dimension miscellaneous stone for construction use.

Total crushed stone production was 5,005,000 tons valued at $13,494,000, a decrease of 17%, and 21% below 1970.

Vermiculite.—Vermiculite of Hawaii, Inc. exfoliated vermiculite imported from Montana at a plant on Oahu.

MINERAL FUELS

Hawaiian Independent Refinery, Inc. dedicated its new 30,000-barrel-per-day refinery at Campbell Industrial Park, Oahu. Products include aviation gasoline, marine and diesel fuel, and low-sulfur residual fuel oil.

Conoco-Dillingham Oil Co. announced plans to construct a 50,000-barrel-per-day refinery on Oahu. This would increase the total capacity for Hawaii to 115,000 barrels per day. The Standard Oil Co. of California refinery capacity is 35,000 barrels per day.

Table 4.—Principal producers

Commodity and company	Address	Type of activity	Island
Cement:			
Hawaiian Cement Corp	1600 Kapiolani Blvd. Suite 1200 Honolulu, Hawaii 96814	Dry process portland cement plant.	Oahu.
Kaiser Cement & Gypsum Corp.	Permanente Rd. Permanente, Calif. 95014	Wet process portland cement plant.	Do.
Clays: Pacific Clay Corp	547 Halekauwila St. Honolulu, Hawaii 96813	Open pit mine	Do.
Lime:			
GasprO, Ltd	P.O. Box 2454 Honolulu, Hawaii 96804	Rotary kiln and continuous hydrator.	Do.
Hawaiian Commercial & Sugar Co. Ltd.	Puunene, Hawaii 96784	do	Maui.
Pumice and volcanic cinder:			
Fong Construction Co., Ltd	237 Dairy Rd. Kahului, Hawaii 96732	Open pit mine	Do.
HC&D, Ltd	P.O. Box 190 Honolulu, Hawaii 96810	do	Molokai.
James Kuwana	P.O. Box 406 Pahoa, Hawaii 96778	do	Hawaii.
Hilo Coast Processing Co	Pepeekeo, Hawaii 96783	do	Do.
Laupahoehoe Sugar Co	Papaaloa, Hawaii 96780	do	Do.
Volcanite, Ltd	8282 Fort St. Honolulu, Hawaii 96813	do	Do.
Salt: Tanaka Hawaiian Salt	968 D Akepo Lane Honolulu, Hawaii 96817	Solar evaporation	Oahu.
Sand and gravel:			
Concrete Industries, Inc	P.O. Box 86 Puunene, Hawaii 96784	Open pit mine	Maui.
HC&D, Ltd	P.O. Box 190 Honolulu, Hawaii 96810	do	Molokai.
Kekaha Sugar Co., Ltd	Kekaha, Hawaii 96752	do	Kauai.
Maui Concrete & Aggregates, Inc.	8 Central Ave. Wailuku, Hawaii 96793	do	Maui.
Louis K. Rego Trucking	Lihue, Hawaii 96766	do	Kauai.
Stone:			
Concrete Industries, Inc	P.O. Box 86 Puunene, Hawaii 96784	Open quarry	Maui.
James W. Glover, Ltd	P.O. Box 275 Hilo, Hawaii 96720	do	Hawaii.
Grove Farm Co., Inc	Puhi Rural Station Puhi, Hawaii 96766	do	Kauai.
Hawaiian Bitumuls & Paving Co., Ltd.	P.O. Box 2240 Honolulu, Hawaii 96804	do	Oahu.
Hawaiian Cement Corp	1600 Kapiolani Blvd. Suite 1200 Honolulu, Hawaii 96814	do	Do.
HC&D, Ltd	P.O. Box 190 Honolulu, Hawaii 96810	do	Do.
Kaiser Cement & Gypsum Corp.	Permanente Rd. Permanente, Calif. 95014	do	Do.
Lone Star Industries, Pacific Region.	400 Alabama St. San Francisco, Calif. 94110	do	Do.
Pacific Concrete & Rock Co., Ltd.	2344 Pahounui Dr. Honolulu, Hawaii 96819	do	Molokai, Oahu.
Vermiculite (exfoliated): Vermiculite of Hawaii, Inc.	842-A Mapunapuna St. Honolulu, Hawaii 96819	Exfoliating plant	Oahu.