

THE MINERAL INDUSTRY OF HAWAII

This chapter has been prepared under a Memorandum of Understanding between the U.S. Bureau of Mines, U.S. Department of the Interior, and the Department of Land and Natural Resources of the State of Hawaii for collecting information on all nonfuel minerals.

Hawaii remained 43d among the 50 States in total nonfuel mineral production value¹ in 1995, according to the U.S. Geological Survey (USGS). The estimated value for 1995 was \$106 million, an 8% decrease from that of 1994. This followed a 16.5% decrease in 1994. The State accounted for about 0.5% the total U.S. nonfuel mineral production value.

Mining in Hawaii consisted mostly of the quarrying of stone to produce crushed stone and the excavation of sand and gravel from open pits, both for use by the Islands' construction industry. Most of the State's portland cement was produced at one manufacturing plant on the island of Oahu, Honolulu County. Hawaii's overall decrease in the value of mineral production in 1995, as well as in 1994, is mostly attributable to portland cement. While both crushed

stone and construction sand and gravel values have increased during the past 2 years, portland cement production and value has declined since reaching the State's all-time high in 1992. In 1992, 520,000 metric tons of portland cement were produced at a value of almost \$54 million.

¹The terms "nonfuel mineral production" and related "values" encompass variations in meaning, depending on the minerals or mineral products. Production may be measured by mine shipments, mineral commodity sales, or marketable production (including consumption by producers) as is applicable to the individual mineral commodity.

All 1995 USGS mineral production data published in this chapter are estimated as of Dec. 1995. Estimates for construction sand and gravel, crushed stone, and portland cement, are periodically updated. To obtain the most current information, please contact the appropriate USGS mineral commodity specialist. Call MINES FaxBack at (703) 648-4999 from a fax machine with a touch-tone handset and request Document No. 1000 for a telephone listing of all mineral commodity specialists or call USGS information at (703) 648-4000 for the specialist's name and number.

TABLE 1
NONFUEL RAW MINERAL PRODUCTION IN HAWAII^{1 2}

Mineral	1993		1994		1995 ^p		
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	
Cement:							
Masonry	metric tons	7,260	\$880	6,000	\$395	4,440	\$316
Portland	do.	451,000	48,300	404,000	28,300	215,000	15,100
Sand and gravel (construction)	thousand metric tons	W	W	521	4,740	600	5,700
Stone (crushed)	do.	³ 8,460	³ 81,400	8,170	82,300	8,500	85,000
Combined value of other industrial minerals		XX	8,140	XX	(⁴)	XX	(⁴)
Total		XX	139,000	XX	⁵ 116,000	XX	⁵ 106,000

^qEstimated. ^pPreliminary. W Withheld to avoid disclosing company proprietary data; value included with "Combined value" data. XX Not applicable.

¹Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

²Data are rounded to three significant digits; may not add to totals shown.

³Excludes certain stones; data excluded to avoid disclosing company proprietary data.

⁴Value excluded to avoid disclosing company proprietary data.

⁵Partial total, excludes values that must be concealed to avoid disclosing company proprietary data.

TABLE 2
HAWAII: CRUSHED STONE¹ SOLD OR USED BY PRODUCERS IN 1994, BY USE²

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Coarse aggregate (+1 1/2 inch):			
Macadam	33	\$400	\$12.10
Riprap and jetty stone	59	660	11.20
Filter stone	36	300	8.33
Coarse aggregate, graded:			
Concrete aggregate, coarse	1,290	14,600	11.30
Bituminous aggregate, coarse	104	821	7.89
Bituminous surface-treatment aggregate	W	W	8.63
Other graded coarse aggregate	W	W	11.60
Fine aggregate (-3/8 inch):			
Stone sand, concrete	1,070	13,000	12.10
Stone sand, bituminous mix or seal	555	5,250	9.46
Screening, undesignated	W	W	8.38
Other fine aggregate	W	W	13.20
Coarse and fine aggregates:			
Graded road base or subbase	574	5,700	9.93
Crusher run or fill or waste	821	6,210	7.57
Other coarse and fine aggregates	W	W	8.64
Other construction materials ³	1,370	11,800	8.65
Agricultural:			
Agricultural limestone	(4)	(4)	17.20
Other agricultural uses	(4)	(4)	8.63
Chemical and metallurgical: Cement manufacture			
	278	2,170	7.82
Unspecified:⁵			
Actual	(4)	(4)	11.00
Estimated	1,930	20,900	10.80
Total	8,170	82,300	10.10

W Withheld to avoid disclosing company proprietary data; included with "Other construction materials."

¹Includes limestone, miscellaneous stone, traprock, and volcanic cinder and scoria.

²Data are rounded to three significant digits; may not add to totals shown.

³Includes roofing granules.

⁴Withheld to avoid disclosing company proprietary data; included in "Total."

⁵Includes production reported without a breakdown by end use and estimates for nonrespondents.

TABLE 3
HAWAII: CRUSHED STONE SOLD OR USED, BY KIND¹

Kind	1993				1994			
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value
Limestone	6	1,420	\$14,400	\$10.20	6	1,000	\$10,500	\$10.50
Traprock	14	6,850	65,200	9.53	14	6,150	61,100	9.94
Volcanic cinder and scoria	6	192	1,750	9.13	7	143	1,080	7.52
Miscellaneous stone	(²)	(²)	(²)	(²)	10	876	9,650	11.00
Total	XX	8,460	81,400	9.63	XX	8,170	82,300	10.10

XX Not applicable.

¹Data are rounded to three significant digits; may not add to totals shown.

²Excludes miscellaneous stone from State total to avoid disclosing company proprietary data.

TABLE 4
HAWAII: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 1994, BY MAJOR USE CATEGORY¹

Use	Quantity (thousand metric tons)	Value (thousands)	Value per ton
Concrete aggregate and concrete products	(²)	(²)	\$11.80
Asphaltic concrete aggregates and roadbase materials	262	\$2,230	8.50
Fill	(²)	(²)	3.60
Unspecified: ³ Estimated	1	1	1.00
Total or average	521	4,740	9.10

¹Data are rounded to three significant digits; may not add to totals shown.

²Withheld to avoid disclosing company proprietary data; included in "Total."

³Includes production reported without a breakdown by end use and estimates for nonrespondents.



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