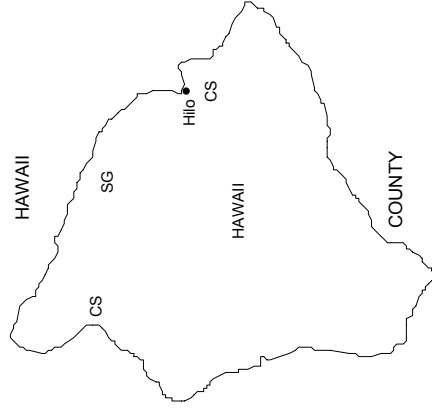
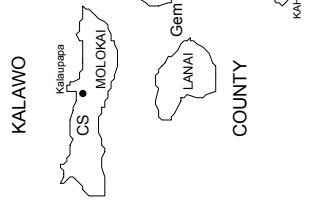
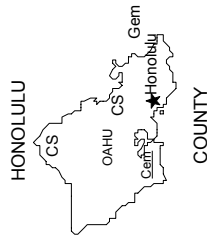
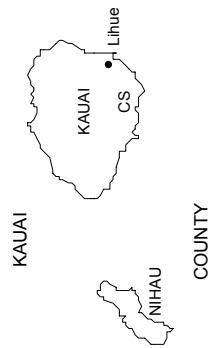


# HAWAII



## LEGEND

- ★ Capital
- City

## MINERAL SYMBOLS (Major producing areas)

- Gem Gemstones
- CS Crushed stone
- D-L Dimension limestone
- SG Construction sand and gravel



# THE MINERAL INDUSTRY OF HAWAII

In 2001, the estimated value<sup>1</sup> of nonfuel mineral production for Hawaii was \$70 million, based upon preliminary U.S. Geological Survey (USGS) data. This was about a 24%

<sup>1</sup>The terms “nonfuel mineral production” and related “values” encompass variations in meaning, depending upon 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 2001 USGS mineral production data published in this chapter are preliminary estimates as of August 2002 and are expected to change. For some mineral commodities, such as construction sand and gravel, crushed stone, and portland cement, estimates are updated periodically. To obtain the most current information, please contact the appropriate USGS mineral commodity specialist. Specialist contact information may be retrieved over the Internet at URL <http://minerals.usgs.gov/minerals/contacts/comdir.html>; alternatively, specialists' names and telephone numbers may be obtained by calling USGS information at (703) 648-4000 or by calling the USGS Earth Science Information Center at 1-888-ASK-USGS (275-8747). All Mineral Industry Surveys—mineral commodity, State, and country—also may be retrieved over the Internet at URL <http://minerals.usgs.gov/minerals>.

decrease from that of 2000<sup>2</sup> and followed a 6.5% increase from 1999 to 2000. Mining in Hawaii consisted mostly of the quarrying of stone to produce crushed stone and the extraction of sand and gravel from open pits, both for use by the construction industry. All of the State's portland cement, albeit from imported clinker, was produced at one grinding plant on the island of Oahu, Honolulu County.

The decrease in value in 2001 is mostly attributable to decreases in the values of portland cement and crushed stone (descending magnitude of change). A relatively small increase occurred in construction sand and gravel, while gemstones had a small decrease. In 2000, all nonfuel mineral commodities showed small to moderate increases in value (table 1).

<sup>2</sup>Values, percentage calculations, and rankings for 2000 may differ from the Minerals Yearbook, Area Reports: Domestic 2000, Volume II, owing to the revision of preliminary 2000 to final 2000 data. Data for 2001 are preliminary and are expected to change; related rankings may also change.

TABLE 1  
NONFUEL RAW MINERAL PRODUCTION IN HAWAII 1/ 2/

(Thousand metric tons and thousand dollars)

Mineral	1999		2000		2001 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Cement:						
Masonry	3	298 e/	3	645 e/	3 e/	600 e/
Portland	254	24,700 e/	286 e/	26,800 e/	110 e/	10,200 e/
Gemstones	NA	55	NA	(3/)	NA	77
Sand and gravel, construction	508	5,840	607	6,420	650	6,970
Stone, crushed	5,870	55,500	5,770	58,100	5,000	51,900
Total	XX	86,400	XX	92,000	XX	69,700

e/ Estimated. p/ Preliminary. NA Not available. XX Not applicable.

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

2/ Data are rounded to no more than three significant digits; may not add to totals shown.

3/ Value excluded to avoid disclosing company proprietary data.

TABLE 2  
HAWAII: CRUSHED STONE SOLD OR USED, BY KIND 1/

Kind	1999				2000			
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value
Limestone	6	277	\$2,580	\$9.30	5	W	W	\$8.66
Traprock	20	5,160 r/	49,400 r/	9.57 r/	16	5,010	\$51,300	10.24
Volcanic cinder and scoria	1	W	W	W	--	--	--	--
Miscellaneous stone	3 r/	W	W	W	2	W	W	9.17
Total or average	XX	5,870	55,500	9.45	XX	5,770	58,100	10.08

r/ Revised. W Withheld to avoid disclosing company proprietary data; included in “Total.” XX Not applicable. -- Zero.

1/ Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.

TABLE 3  
HAWAII: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2000, BY USE 1/ 2/

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
<b>Construction:</b>			
<b>Coarse aggregate (+1 1/2 inch):</b>			
Filter stone	50	\$705	\$14.10
Other coarse aggregate	3	11	3.67
Total or average	53	716	13.51
<b>Coarse aggregate, graded:</b>			
Concrete aggregate, coarse	1,000	14,200	14.20
Bituminous aggregate, coarse	W	W	8.91
Other graded coarse aggregate	89	614	6.90
Total or average	1,090	14,900	13.61
<b>Fine aggregate (-3/8 inch):</b>			
Stone sand, concrete	304	4,340	14.28
Screening, undesignated	32	225	7.03
Other fine aggregate	121	1,210	9.98
Total or average	457	5,770	12.63
<b>Coarse and fine aggregates:</b>			
Graded road base or subbase	512	5,040	9.84
Crusher run or fill or waste	W	W	6.12
Other coarse and fine aggregates	374	2,330	6.24
Total or average	886	7,370	8.32
Other construction materials	38	455	11.97
Agricultural limestone	(3/)	(3/)	12.00
Other miscellaneous uses and specified uses not listed	(3/)	(3/)	21.25
Unspecified, estimated 4/	3,200	29,000	8.91
Total or average	5,770	58,100	10.08

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

1/ Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.

2/ Includes limestone, miscellaneous stone, and traprock.

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

4/ Estimated production without a breakdown by end use.

TABLE 4  
HAWAII: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2000, BY MAJOR USE CATEGORY 1/

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	226	W	W
Plaster and gunite sands	1	W	W
Concrete products (blocks, bricks, pipe, decorative, etc.)	77	W	W
Asphaltic concrete aggregates and other bituminous mixtures	45	W	W
Road base and coverings	W	W	\$12.13
Fill	116	\$946	8.16
Other miscellaneous uses 2/	11	188	17.09
Filtration	3	W	W
Unspecified, estimated 3/	W	W	10.78
Total or average	607	6,420	10.57

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

1/ Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.

2/ Includes plaster and gunite sands.

3/ Reported and estimated production without a breakdown by end use.