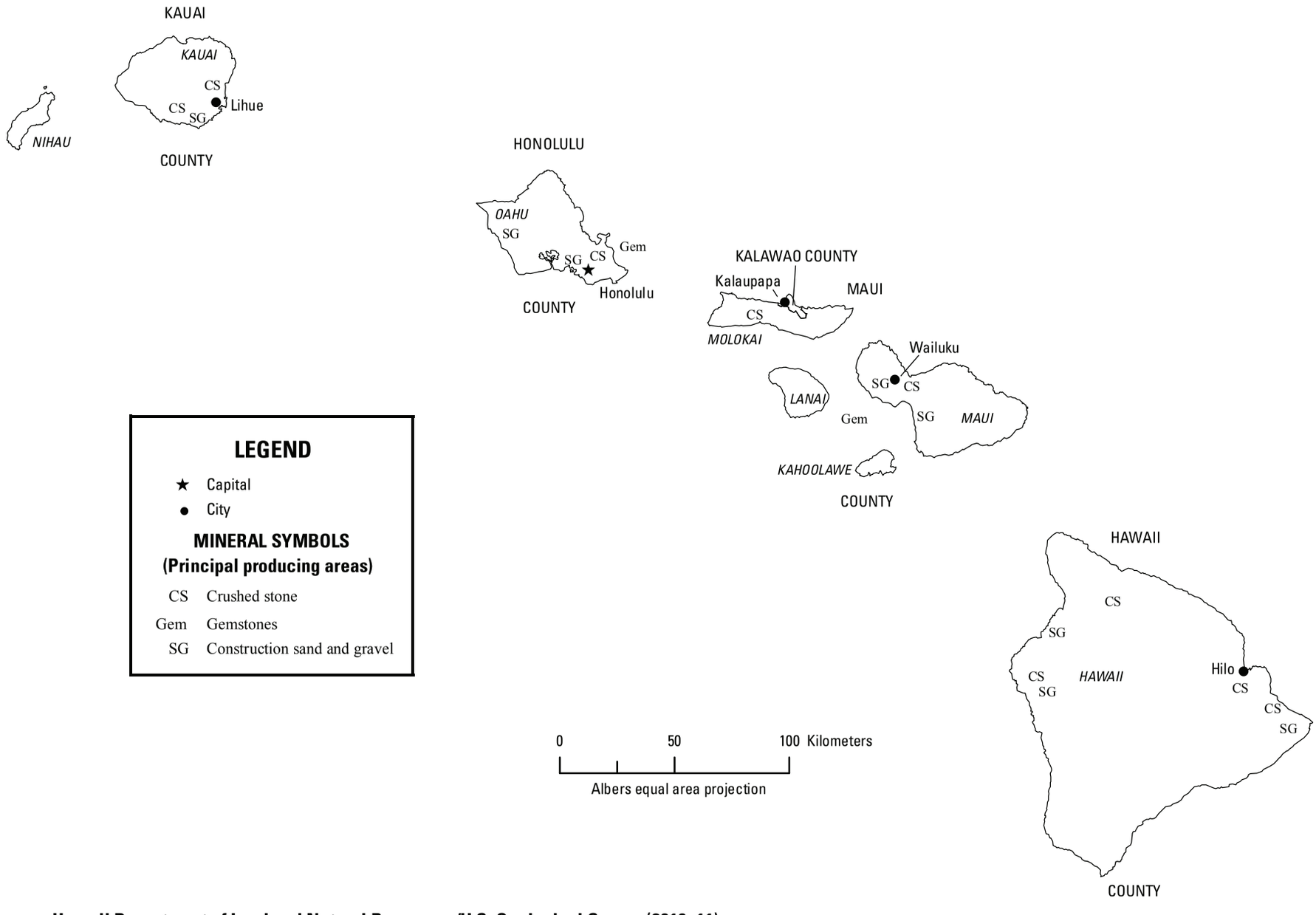
2010–2011 Minerals Yearbook

HAWAII [ADVANCE RELEASE]

U.S. Department of the Interior
U.S. Geological Survey

April 2015

HAWAII



Source: Hawaii Department of Land and Natural Resources/U.S. Geological Survey (2010–11).

The Mineral Industry of Hawaii

In 2011, Hawaii's nonfuel mineral production[1] was valued at $101 million, based upon annual U.S. Geological Survey (USGS) data. This was a $6.4 million (5.9%) decrease from the State's total nonfuel mineral production value of $108 million in 2010, which followed an $8.2 million (7.1%) decrease from $116 million in 2009. The State also dropped from 46th in rank among the 50 States in total nonfuel mineral production value in 2009 and 2010 to 47th in 2011 and accounted for less than one-quarter of 1% of the total U.S. value in each year. On a per capita basis, Hawaii ranked 42d in the Nation in nonfuel mineral production in 2011 with a value of $74, well below the national average of $240.

Mining in Hawaii mostly entailed quarrying of crushed stone and construction sand and gravel, produced for use by the construction industry, and they have been the leading nonfuel mineral products in Hawaii since production of portland cement ceased in 2001. Gemstones, mostly black coral and precious coral, were also produced in significant quantities. As it has for decades, crushed stone remained Hawaii's leading nonfuel mineral commodity, accounting for approximately 85% of the total nonfuel mineral production value in 2011 and 2010. Construction sand and gravel constituted roughly 15% of the total value, and gemstones made up less than one-quarter of 1%.

The quantity of crushed stone produced in Hawaii has decreased every year since 2006. In 2011, crushed stone totaled nearly 4.5 million metric tons (Mt) compared to 9 Mt in 2006, a decline of 50%, and the production value decreased to $86 million from $138 million, a drop of 38%. Construction sand and gravel produced in the State also decreased every year from 2008 to 2011, falling from 1.6 Mt to 962,000 metric tons, a drop of 41%. During the same period, the production value of construction sand and gravel declined by 49%, from $29.8 million to $15.1 million. These were the results of the recession and reduction in construction. Among all States, Hawaii ranked 13th and 14th in gemstone production (measured by value) in 2011 and 2010, respectively; production in the State has remained steady since 2007.

[1]The terms "nonfuel mineral production" and related "values" encompass variations in meaning, depending upon the 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 USGS mineral production data published in this chapter are those available as of May 2013. Data in this report are rounded to three significant digits and percentages are calculated from unrounded data. All USGS Mineral Industry Surveys and USGS Minerals Yearbook chapters—mineral commodity, State, and country—can be retrieved over the Internet at http://minerals.usgs.gov/minerals.

TABLE 1
NONFUEL MINERAL PRODUCTION IN HAWAII[1, 2]

(Thousand metric tons and thousand dollars)

Mineral	2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value
Gemstones, natural	NA	151	NA	151	NA	151
Sand and gravel, construction	1,180 r	15,000 r	1,020	15,500	962	15,100
Stone, crushed	5,800 r	101,000	4,740	91,900	4,490	86,000
Total	XX	116,000	XX	108,000	XX	101,000

[r]Revised. 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.

TABLE 2

HAWAII: CRUSHED STONE SOLD OR USED IN THE UNITED STATES, BY TYPE[1]

Type	2009				2010				2011			
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value
Limestone[2]	--	--	--	--	2	66	$1,130	$17.08	2	23	$442	$19.33
Traprock	19	5,050 r	$87,600 r	$17.35	16	4,180	81,000	19.39	16	3,860	77,700	20.14
Volcanic cinder and scoria	3	121	1,540	12.74	2	103	1,760	17.08	3	365	2,990	8.19
Miscellaneous stone	8	623	11,500	18.46	5	397	8,080	20.36	6	240	4,880	20.35
Total or average	XX	5,800 r	101,000	17.41	XX	4,740	91,900	19.39	XX	4,490	86,000	19.18

[r]Revised. XX Not applicable. --Zero

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

[2]Includes limestone-dolomite reported with no distinction between the two kinds of stone.

TABLE 3
HAWAII: CRUSHED STONE SOLD OR USED BY PRODUCERS
IN 2010, BY USE[1]

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch):		
Riprap and jetty stone	1	$10
Filter stone	W	W
Other coarse aggregate	W	W
Coarse aggregate, graded:		
Concrete aggregate, coarse	W	W
Bituminous aggregate, coarse	W	W
Other graded coarse aggregate	W	W
Fine aggregate (-⅜ inch):		
Stone sand, concrete	W	W
Stone sand, bituminous mix or seal	W	W
Screening, undesignated	W	W
Other fine aggregate	W	W
Coarse and fine aggregates:		
Graded road base or subbase	256	4,150
Crusher run or fill or waste	W	W
Other coarse and fine aggregates	1,010	18,900
Unspecified:[2]		
Reported	1,070	22,000
Estimated	1,730	29,600
Total	4,740	91,900

W Withheld to avoid disclosing company proprietary data; included in "Total."
[1]Data are rounded to no more than three significant digits, may not add to totals shown.
[2]Reported and estimated production without a breakdown by end use.

TABLE 4
HAWAII: CRUSHED STONE SOLD OR USED BY PRODUCERS
IN 2011, BY USE[1]

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch):		
Filter stone	(3)	7
Unspecified coarse aggregate	W	W
Coarse aggregate, graded:		
Unspecified graded coarse aggregate	W	W
Fine aggregate (-⅜ inch):		
Stone sand, concrete	1	32
Unspecified fine aggregate	79	2,040
Coarse and fine aggregates:		
Graded road base or subbase	10	114
Crusher run or fill or waste	W	W
Unspecified coarse and fine aggregates	W	W
Unspecified:[2]		
Reported	1,390	30,900
Estimated	2,580	49,200
Total	4,490	86,000

W Withheld to avoid disclosing company proprietary data; included in "Total."
[1]Data are rounded to no more than three significant digits; may not add to totals shown.
[2]Reported and estimated production without a breakdown by end use.
[3]Less than ½ unit.

TABLE 5
HAWAII: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2010,
BY MAJOR USE CATEGORY[1]

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	W	W	W
Asphaltic concrete aggregates and road base materials	W	W	W
Fill	W	W	W
Other miscellaneous uses[2]	W	W	W
Unspecified:[3]			
Reported	W	W	W
Estimated	464	$6,760	$18.74
Total or average	1,020	15,500	15.23

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 railroad ballast and golf course.
[3]Estimated production without a breakdown by end use.

TABLE 6
HAWAII: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2011,
BY MAJOR USE CATEGORY[1]

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	W	W	W
Asphaltic concrete aggregates and road base materials	W	W	W
Fill	314	3,780	$12.04
Other miscellaneous uses[2]	169	1,860	11.01
Unspecified:[3]			
Reported	55	732	13.31
Estimated	303	4,940	16.30
Total or average	962	15,100	15.70

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.
[2]Includes railroad ballast.
[3]Estimated production without a breakdown by end use.