



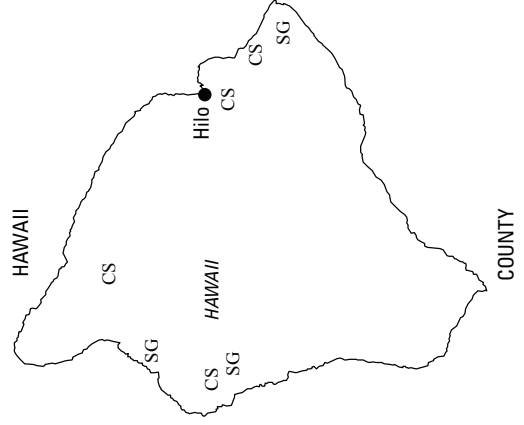
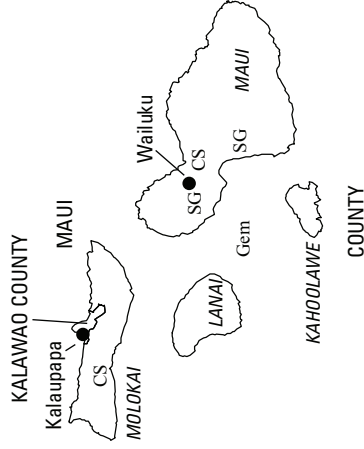
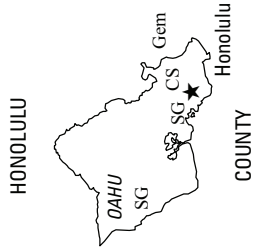
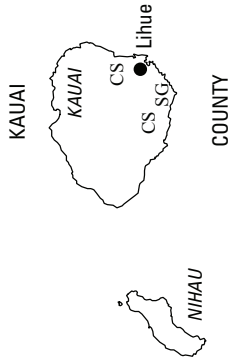
# 2012–2013 Minerals Yearbook

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**HAWAII [ADVANCE RELEASE]**

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# HAWAII

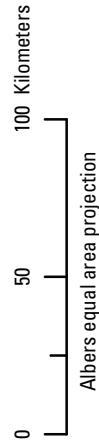


**LEGEND**

- ★ Capital
- City

**MINERAL SYMBOLS  
(Principal producing areas)**

- CS Crushed stone
- Gem Gemstones
- SG Construction sand and gravel



# THE MINERAL INDUSTRY OF HAWAII

In 2013, the value of the nonfuel mineral production<sup>1</sup> in the State of Hawaii decreased to \$103 million, 0.14% of the total U.S. nonfuel mineral production, ranking it 47th in the Nation. In 2012, the corresponding value was \$108 million, again 0.14% of the U.S. total nonfuel mineral production, ranking it 48th among the 50 States. In 2013, on a per capita basis, nonfuel mineral production in Hawaii had a value of \$73 compared with the national average of \$238. In 2012, the per capita value was \$78 compared with the national average of \$241.

The value of nonfuel mineral production in Hawaii for the years 2006 through 2013 was as follows (in millions of dollars): \$154 (2006), \$165 (2007), \$164 (2008), \$116 (2009), \$108 (2010), \$99.9 (2011), \$108 (2012), and \$103 (2013).

In 2013, there were 273 employees in nonfuel mineral mines in Hawaii and 26 in mills and preparation plants. In 2012, the corresponding numbers were 313 in nonfuel mineral mines and 23 in mills and preparation plants (U.S. Mine Safety and Health

Administration, 2013, p. 9; 2014, p. 9). In 2013, the average annual wage in Hawaii for all mining was \$87,434 compared with \$41,492 for all industries. In 2012, the corresponding figures were \$82,350 and \$40,879, respectively (National Mining Association, unpub. data, February 4, 2016).

In 2013 and 2012, Hawaii produced construction sand and gravel, crushed stone, and natural gemstones (table 1). In 2013, there were 21 stone quarries, 20 processing plants, and 15 sand-and-gravel-processing plants. In 2012, there were 24 stone quarries, 23 processing plants, and 20 sand-and-gravel-processing plants. Gems native to Hawaii include peridot crystals embedded in olivine and obsidian (which often includes bubbles). In 2012 and 2013, there was one gemstone operation in Hawaii that produced coral.

## References Cited

- U.S. Mine Safety and Health Administration, [2013], Mine injury and worktime, quarterly, January–December 2012, Final, closeout edition, 33 p. (Accessed February 4, 2016, at [http://arlweb.msha.gov/Stats/Part50/WQ/MasterFiles/MIWQ%20Master\\_20125.pdf](http://arlweb.msha.gov/Stats/Part50/WQ/MasterFiles/MIWQ%20Master_20125.pdf).)
- U.S. Mine Safety and Health Administration, [2014], Mine injury and worktime, quarterly, January–December 2013, Final, closeout edition, 34 p. (Accessed February 4, 2016, at [http://arlweb.msha.gov/Stats/Part50/WQ/MasterFiles/MIWQ%20Master\\_20135.pdf](http://arlweb.msha.gov/Stats/Part50/WQ/MasterFiles/MIWQ%20Master_20135.pdf).)

<sup>1</sup>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 February 2016. 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<sup>1,2</sup>

(Thousand metric tons and thousand dollars)

Mineral	2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value
Gemstones, natural	NA	151	NA	151	NA	139
Sand and gravel, construction	962	15,100	786	15,000	679	12,800
Stone, crushed	4,420 <sup>r</sup>	84,700 <sup>r</sup>	4,990	93,100	5,180	89,600
Total	XX	99,900 <sup>r</sup>	XX	108,000	XX	103,000

<sup>r</sup>Revised. NA Not available. XX Not applicable.

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

<sup>2</sup>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<sup>1</sup>

Type	2012				2013			
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value
Limestone <sup>2</sup>	--	--	--	--	--	--	--	--
Traprock	16	4,440	\$85,100	\$19.17	15	\$4,800	\$83,800	\$17.44
Volcanic cinder and scoria	3	212	1,410	6.67	2	28	522	18.64
Miscellaneous stone	5	338	6,600	19.51	4	350	5,310	15.17
Total or average	XX	4,990	93,100	18.66	XX	5,180	89,600	17.29

XX Not applicable. -- Zero.

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

<sup>2</sup>Includes limestone-dolomite reported with no distinction between the two kinds of stone.

TABLE 3  
HAWAII: CRUSHED STONE SOLD OR USED BY PRODUCERS BY USE<sup>1</sup>

Use	2012			2013		
	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value
Construction:						
Coarse aggregate (+1½ inch):						
Macadam	W	W	W	--	--	--
Riprap and jetty stone	1	\$14	\$13.66	W	W	W
Filter stone	W	W	W	12	\$180	\$15.06
Unspecified coarse aggregate	W	W	W	236	3,400	14.42
Coarse aggregate, graded:						
Concrete aggregate, coarse	W	W	W	32	536	16.88
Unspecified graded coarse aggregate	W	W	W	117	1,940	16.58
Fine aggregate (-¾ inch):						
Stone sand, concrete	W	W	W	W	W	W
Stone sand, bituminous mix or seal	--	--	--	23	750	33.07
Screening, undesignated	W	W	W	--	--	--
Unspecified fine aggregate	W	W	W	140	2,210	15.78
Coarse and fine aggregates:						
Graded road base or subbase	W	W	W	W	W	W
Terrazzo and exposed aggregate	W	W	W	--	--	--
Crusher run or fill or waste	63	696	11.04	70	357	5.09
Unspecified coarse and fine aggregates	W	W	W	W	W	W
Unspecified and other construction materials	--	--	--	1	16	17.28
Unspecified: <sup>2</sup>						
Reported	1,550	29,700	19.15	1,810	28,000	15.47
Estimated	3,140	57,800	18.38	2,590	49,500	19.14
Total or average	4,990	93,100	18.66	5,180	89,600	17.29

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

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

<sup>2</sup>Reported and estimated production without a breakdown by end use.

TABLE 4  
HAWAII: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2012,  
BY MAJOR USE CATEGORY<sup>1</sup>

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	--	--	--
Other miscellaneous uses	37	\$1,040	\$28.11
Unspecified: <sup>2</sup>			
Reported	--	--	--
Estimated	257	4,810	18.72
Total or average	786	15,000	19.08

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

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

<sup>2</sup>Estimated production without a breakdown by end use.

TABLE 5  
HAWAII: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2013,  
BY MAJOR USE CATEGORY<sup>1</sup>

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	14	\$173	\$12.36
Other miscellaneous uses	183	5,420	29.60
Unspecified: <sup>2</sup>			
Reported	--	--	--
Estimated	145	2,510	17.28
Total or average	679	12,800	18.85

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

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

<sup>2</sup>Estimated production without a breakdown by end use.