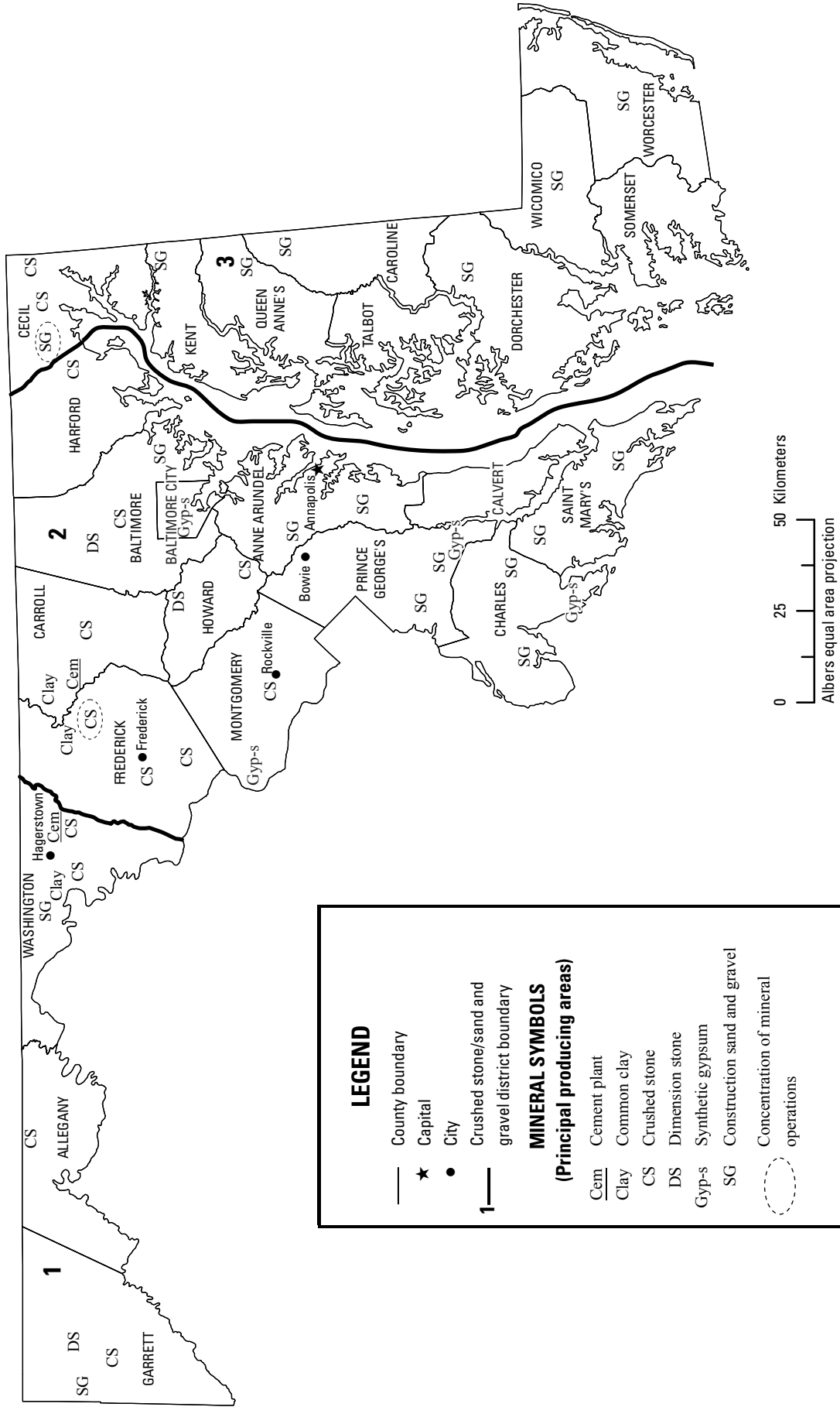




2012–2013 Minerals Yearbook

MARYLAND

MARYLAND



THE MINERAL INDUSTRY OF MARYLAND

This chapter has been prepared under a Memorandum of Understanding between the U.S. Geological Survey and the Maryland Department of the Environment for collecting information on all nonfuel minerals.

In 2013, the value of the nonfuel mineral production¹ in the State of Maryland was \$262 million,² 0.4% of the total U.S. nonfuel mineral production, ranking it 35th in the Nation. In 2012, the corresponding value was \$280 million,² 0.4% of the U.S. total nonfuel mineral production, ranking it 40th among the 50 States. In 2013, on a per capita basis, nonfuel mineral production in Maryland had a value of \$44 compared with the national average of \$238. In 2012, the per capita value was \$48 compared with the national average of \$241.

The value of nonfuel mineral production in Maryland for the years 2006 through 2013 was as follows (in millions of dollars): \$662 (2006), \$672 (2007), \$642 (2008), \$505 (2009), \$302² (2010), \$294² (2011), \$280² (2012), and \$262² (2013).

In 2013, there were 472 employees in nonfuel mineral mines in Maryland and 444 in mills and preparation plants. In 2012, the corresponding numbers were 479 in nonfuel mineral mines

¹The 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>.

²Partial total; excludes values that must be withheld to avoid disclosing company proprietary data.

and 411 in mills and preparation plants (U.S. Mine Safety and Health Administration, 2013, p. 10; 2014, p. 10). In 2013, the average annual wage in Maryland for all mining was \$60,181 compared with \$51,928 for all industries. In 2012, the corresponding figures were \$60,713 and \$51,916, respectively (National Mining Association, unpub. data, February 4, 2016).

In 2013 and 2012, Maryland produced common clay, construction sand and gravel, crushed stone, dimension stone, masonry and portland cements, and natural gemstones (table 1).

In 2013, there were 44 active crushed stone operations with 30 quarries and 29 processing plants in Maryland. In 2012, the corresponding numbers were 45 operations, 30 quarries, and 29 processing plants. In 2013, there were 36 active construction sand and gravel operations in the State, of which 2 were dredging operations. In 2012, there were 38 sand and gravel operations, including 3 dredging operations.

References Cited

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

TABLE 1
NONFUEL MINERAL PRODUCTION IN MARYLAND^{1,2}

(Thousand metric tons and thousand dollars)

Mineral	2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value
Gemstones, natural	NA	1	NA	1	NA	1
Sand and gravel, construction	6,980	83,100	7,730	90,700	6,650	77,000
Stone:						
Crushed	21,000 ^r	209,000	20,300	188,000	19,700	184,000
Dimension	6	1,230	4	1,120	2	687
Combined values of cement and clays (common)	XX	W	XX	W	XX	W
Total	XX	294,000 ^r	XX	280,000	XX	262,000

^rRevised. NA Not available. W Withheld to avoid disclosing company proprietary data; excluded from "Total." 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.

TABLE 2
MARYLAND: CRUSHED STONE SOLD OR USED IN THE UNITED STATES, BY TYPE¹

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 ²	15	12,900	\$110,000	\$8.55	15	12,300	\$107,000	\$8.69
Marble	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Granite	3	2,910	26,500	9.10	3	2,790	27,000	9.67
Traprock	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Sandstone and quartzite ⁴	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Miscellaneous stone	12	4,560	51,700	11.33	12	4,590	50,300	10.98
Total or average	XX	20,300	188,000	9.25	XX	19,700	184,000	9.36

XX Not applicable.

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

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

³Withheld to avoid disclosing company proprietary data; included with "Miscellaneous stone."

⁴Includes sandstone-quartzite reported with no distinction between the two kinds of stone.

TABLE 3
MARYLAND: CRUSHED STONE SOLD OR USED BY PRODUCERS, BY USE¹

Use	2012			2013		
	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value
Construction:						
Coarse aggregate (+1½ inch):						
Riprap and jetty stone	52	\$740	\$14.23	64	\$820	\$12.77
Unspecified coarse aggregate	518	6,860	13.24	W	W	W
Coarse aggregate, graded:						
Concrete aggregate, coarse	W	W	W	--	--	--
Bituminous aggregate, coarse	W	W	W	W	W	W
Railroad ballast	138	1,740	12.61	134	1,680	12.59
Unspecified graded coarse aggregate	3,930	45,900	11.68	3,970	47,800	12.03
Fine aggregate (-¾ inch):						
Stone sand, concrete	W	W	W	W	W	W
Screening, undesignated	138	808	5.86	W	W	W
Unspecified fine aggregate	1,010	8,450	8.39	857	7,240	8.44
Coarse and fine aggregates:						
Graded road base or subbase	W	W	W	456	4,070	8.93
Unpaved road surface	W	W	W	--	--	--
Terrazzo and exposed aggregate	--	--	--	W	W	W
Crusher run or fill or waste	83	792	9.55	56	596	10.58
Unspecified coarse and fine aggregates	2,950	27,500	9.32	2,670	25,700	9.60
Unspecified and other construction materials	26	406	15.60	8	130	16.54
Chemical and metallurgical:						
Cement manufacture	W	W	W	W	W	W
Sulfur oxide removal	W	W	W	W	W	W
Special:						
Whiting or whiting substitute	W	W	W	W	W	W
Other miscellaneous uses and specified uses not listed						
Unspecified: ²						
Reported	1,400	15,100	10.83	1,630	18,600	11.44
Estimated	6,160	57,900	9.39	5,670	52,000	9.18
Total or average	20,300	188,000	9.25	19,700	184,000	9.36

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

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

²Reported and estimated production without a breakdown by end use.

TABLE 4
MARYLAND: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2012, BY USE AND DISTRICT¹

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1½ inch) ²	W	W	471	5,970	W	W
Coarse aggregate, graded ³	149	1,480	3,410	38,600	W	W
Fine aggregate (-¾ inch) ⁴	W	W	974	7,820	W	W
Coarse and fine aggregates ⁵	255	2,440	1,420	13,100	1,820	16,500
Other construction materials	26	406	--	--	--	--
Chemical and metallurgical ⁶	W	W	2,560	11,300	--	--
Special ⁷	--	--	W	W	--	--
Unspecified: ⁸						
Reported	826	9,950	484	4,390	87	791
Estimated	369	4,580	5,350	48,800	445	4,460
Total	2,410	23,700	14,800	132,000	3,160	32,500

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

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes riprap and jetty stone and unspecified coarse aggregate.

³Includes concrete aggregate (coarse), bituminous aggregate (coarse), railroad ballast, and unspecified graded coarse aggregate.

⁴Includes stone sand (concrete), screening (undesignated), and unspecified fine aggregate.

⁵Includes graded road base or subbase, unpaved road surface, crusher run, roofing granules, and unspecified coarse and fine aggregates.

⁶Includes cement manufacture and sulfur oxide removal.

⁷Includes whitening or whitening substance.

⁸Reported and estimated production without a breakdown by end use.

TABLE 5
MARYLAND: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2013, BY USE AND DISTRICT¹

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1½ inch) ²	W	W	W	W	W	W
Coarse aggregate, graded ³	W	W	W	W	W	W
Fine aggregate (-¾ inch) ⁴	W	W	W	W	W	W
Coarse and fine aggregates ⁵	W	W	W	W	1,430	13,300
Other construction materials	8	130	--	--	--	--
Chemical and metallurgical ⁶	W	W	W	W	--	--
Special ⁷	--	--	W	W	--	--
Unspecified: ⁸						
Reported	942	11,600	575	5,870	113	1,160
Estimated	421	3,890	4,780	43,800	468	4,290
Total	2,400	22,400	14,300	131,000	2,940	30,900

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

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes riprap and jetty stone and unspecified coarse aggregate.

³Includes concrete aggregate (coarse), bituminous aggregate (coarse), railroad ballast, and unspecified graded coarse aggregate.

⁴Includes stone sand (concrete), screening (undesignated), and unspecified fine aggregate.

⁵Includes graded road base or subbase, unpaved road surface, crusher run, roofing granules, and unspecified coarse and fine aggregates.

⁶Includes cement manufacture and sulfur oxide removal.

⁷Includes whitening or whitening substance.

⁸Reported and estimated production without a breakdown by end use.

TABLE 6
MARYLAND: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2012,
BY MAJOR USE CATEGORY¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate and concrete products ²	4,520	\$52,300	\$11.57
Asphaltic concrete aggregates and other bituminous mixtures	47	498	10.60
Road base and coverings	66	649	9.83
Fill	434	1,490	3.43
Other miscellaneous uses ³	247	4,650	18.83
Unspecified: ⁴			
Reported	1,840	24,400	13.26
Estimated	576	6,810	11.82
Total or average	7,730	90,700	11.73

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

²Includes plaster and gunité sands.

³Includes filtration and golf course.

⁴Reported and estimated production without a breakdown by end use.

TABLE 7
MARYLAND: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2013,
BY MAJOR USE CATEGORY¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	2,500	\$31,400	\$12.57
Asphaltic concrete aggregates and other bituminous mixtures ²	26	98	3.77
Fill	274	2,200	8.03
Other miscellaneous uses ³	43	476	11.07
Unspecified: ⁴			
Reported	450	5,970	13.27
Estimated	3,360	36,900	11.00
Total or average	6,650	77,000	11.59

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

²Includes road base coverings.

³Includes filtration, golf course, and snow and ice control.

⁴Reported and estimated production without a breakdown by end use.

TABLE 8
MARYLAND: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2012,
BY USE AND DISTRICT¹

(Thousand metric tons and thousand dollars)

Use	Districts 1 and 2		District 3	
	Quantity	Value	Quantity	Value
Concrete aggregate and concrete products ²	W	W	W	W
Asphaltic concrete aggregates and road base materials	W	W	W	W
Other miscellaneous uses ³	194	1,530	487	4,610
Unspecified: ⁴				
Reported	1,290	17,100	547	7,270
Estimated	576	6,810	--	--
Total	4,260	53,600	3,470	37,100

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

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes plaster and gunite sands.

³Includes fill, filtration, and golf course.

⁴Reported and estimated production without a breakdown by end use.

TABLE 9
MARYLAND: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2013,
BY USE AND DISTRICT¹

(Thousand metric tons and thousand dollars)

Use	Districts 1 and 2		District 3	
	Quantity	Value	Quantity	Value
Concrete aggregate and concrete products	W	W	W	W
Asphaltic concrete aggregates and road base materials	W	W	W	W
Other miscellaneous uses ²	250	2,070	63	577
Unspecified: ³				
Reported	448	5,920	3	50
Estimated	894	10,500	2,460	26,400
Total	3,520	45,000	3,130	32,000

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

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes fill, filtration, golf course, and snow and ice control.

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