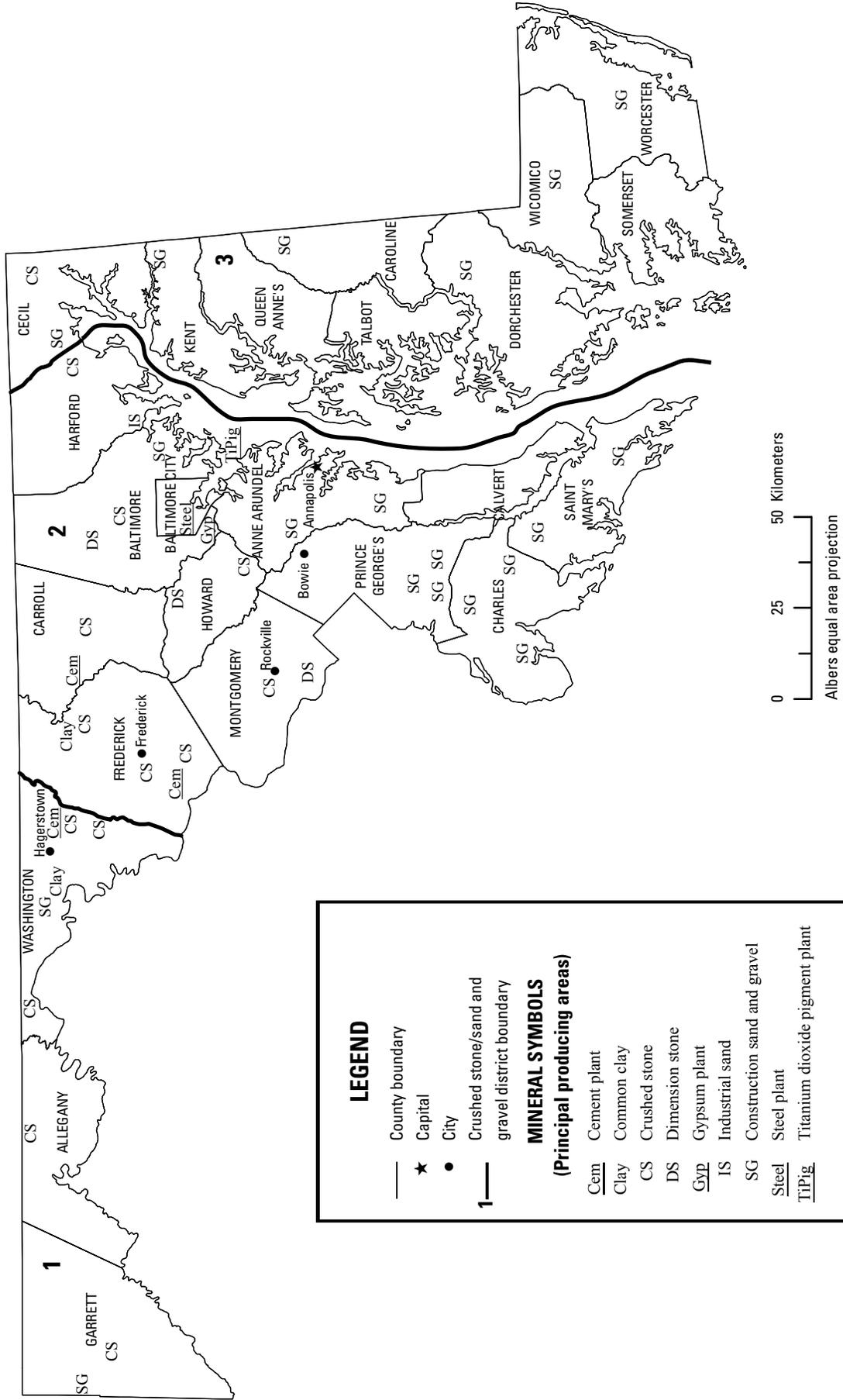




2008 Minerals Yearbook

MARYLAND

MARYLAND



Source: Maryland Department of the Environment/U.S. Geological Survey (2008).

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, Minerals, Oil, and Gas Division, for collecting information on all nonfuel minerals.

In 2008, Maryland's nonfuel raw mineral production¹ was valued at \$353 million, based upon annual U.S. Geological Survey (USGS) data. This was a decrease of \$319 million, or almost 48%, from the State's total of \$672 million in 2007, which followed a \$10 million, or 1.5%, increase from \$662 million in 2006. The State, which from 2005-07 had ranked 33d, ranked 36th among the 50 States in total nonfuel raw mineral production value. Because data for portland and masonry cement, common clays, and industrial sand and gravel are withheld (company proprietary data), the actual total value for the State is higher than that reported in table 1.

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 2008 USGS mineral production data published in this chapter are those available as of July 2010. All USGS Mineral Industry Surveys and USGS Minerals Yearbook chapters—mineral commodity, State, and country—can be retrieved over the Internet at URL <http://minerals.usgs.gov/minerals>.

Crushed stone, construction sand and gravel, and dimension stone, based upon value, were Maryland's leading nonfuel raw mineral commodities, the first two of which accounted for approximately 99% of the State's publishable total nonfuel mineral production value. In 2008, the production value of construction sand and gravel increased by \$3 million dollars, though production was down just over 3%, or 400,000 metric tons, from that of 2007. The quantity of crushed stone produced was down by more than 6 million metric tons and the production value was down by about \$57 million. These decreases, in addition to the withholding of certain mineral commodities, accounted for the significant decrease between the State's total mineral production value from 2007 to 2008 (table 1).

All nonfuel mineral commodities mined in Maryland were industrial minerals. All metal production, especially that of raw steel, consisted of the processing and refining of materials received from other domestic and foreign sources. One company produced titanium dioxide pigment at a plant between the cities of Baltimore and Annapolis.

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

(Thousand metric tons and thousand dollars)

Mineral	2006		2007		2008	
	Quantity	Value	Quantity	Value	Quantity	Value
Cement:						
Masonry	W	W	W	W	W	W
Portland	2,650	237,000 ^e	3,000	265,000 ^e	W	W
Clays, common	286	851	173	W	W	W
Gemstones, natural	NA	1	NA	1	NA	1
Sand and gravel:						
Construction	11,900	96,700	12,400 ^r	123,000 ^r	12,000	126,000
Industrial	--	--	--	--	W	W
Stone:						
Crushed	33,100	327,000 ^r	31,100 ^r	282,000 ^r	24,800	225,000
Dimension	5 ^r	873 ^r	17 ^r	2,680 ^r	8	1,740
Total	XX	662,000 ^r	XX	672,000 ^r	XX	353,000

^eEstimated. ^rRevised. NA Not available. W Withheld to avoid disclosing company proprietary data; excluded from "Total." XX Not applicable. -- Zero.

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, BY TYPE¹

Type	2007			2008		
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Number of quarries	Quantity (thousand metric tons)	Value (thousands)
Limestone ²	20	19,700 ^r	\$157,000 ^r	16	15,500	\$131,000
Granite	4	6,610 ^r	66,900 ^r	3	4,400	40,600
Traprock	3 ^r	4,040 ^r	46,500 ^r	3	4,100	45,300
Sandstone & Quartzite	2	152	1,710	4	153	1,810
Miscellaneous stone	3 ^r	569 ^r	9,790 ^r	3	676	6,510
Total	XX	31,100 ^r	282,000 ^r	XX	24,800	225,000

^rRevised. XX Not applicable.

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

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

TABLE 3
MARYLAND: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2008, BY USE¹

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch):		
Riprap and jetty stone	W	W
Other coarse aggregate	849	9,730
Coarse aggregate, graded:		
Concrete aggregate, coarse	W	W
Bituminous aggregate, coarse	W	W
Bituminous surface-treatment aggregate	W	W
Railroad ballast	W	W
Other graded coarse aggregate	3,620	38,600
Fine aggregate (-¾ inch):		
Stone sand, concrete	W	W
Stone sand, bituminous mix or seal	W	W
Screening, undesignated	W	W
Other fine aggregate	1,150	8,100
Coarse and fine aggregates:		
Graded road base or subbase	W	W
Crusher run or fill or waste	W	W
Other coarse and fine aggregates	3,220	27,400
Other construction materials	154	1,600
Agricultural, limestone	W	W
Chemical and metallurgical:		
Cement manufacture	W	W
Sulfur oxide removal	W	W
Special:		
Asphalt fillers or extenders	W	W
Other fillers or extenders	W	W
Unspecified: ²		
Reported	2,670	36,000
Estimated	4,200	38,000
Total	24,800	225,000

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.

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

TABLE 4
MARYLAND: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2008, 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	926	10,200	W	W
Coarse aggregate, graded ³	W	W	7,340	59,200	W	W
Fine aggregate (-¾ inch) ⁴	W	W	1,460	12,500	W	W
Coarse and fine aggregate ⁵	W	W	2,700	25,100	W	W
Other construction materials	3	36	151	1,570	--	--
Agricultural ⁶	--	--	W	W	--	--
Chemical and metallurgical ⁷	W	W	W	W	--	--
Special ⁸	--	--	W	W	W	W
Unspecified: ⁹						
Reported	1,410	16,400	1,170	18,800	93	868
Estimated	536	5,000	3,500	32,000	110	1,000
Total	3,310	29,400	17,600	162,000	3,960	34,000

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 other coarse aggregate.

³Includes concrete aggregate (coarse), bituminous aggregate (coarse), bituminous surface-treatment aggregate, railroad ballast, and other graded coarse aggregate.

⁴Includes screening (undesignated), stone sand (bituminous mix or seal), stone sand (concrete), and other fine aggregate.

⁵Includes crusher run or fill or waste, graded road base or subbase, and other coarse and fine aggregates.

⁶Includes limestone.

⁷Includes cement manufacture and sulfur oxide removal.

⁸Includes asphalt fillers or extenders and other fillers or extenders.

⁹Reported and estimated production without a breakdown by end use.

TABLE 5
MARYLAND: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2008,
BY MAJOR USE CATEGORY^{1,2}

Use	Quantity	Value (thousands)	Unit value
	(thousand metric tons)		
Concrete aggregate and concrete products	6,010	\$69,700	\$11.61
Plaster and gunite sands	30	330	11.00
Asphaltic concrete aggregates and road base materials	62	459	7.40
Road and other stabilization (cement)	24	312	13.00
Road and other stabilization (lime)	40	612	15.30
Fill ³	1,060	3,960	3.74
Unspecified: ⁴			
Reported	120	1,650	13.75
Estimated	4,700	49,000	10.42
Total or average	12,000	126,000	10.46

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

²Includes production from District of Columbia sales yard.

³Includes golf course and snow and ice control.

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

TABLE 6
 MARYLAND¹: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2008, BY USE AND DISTRICT^{2,3}

(Thousand metric tons and thousand dollars)

Use	Districts 1 and 2		District 3		Unspecified districts	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregate and concrete products ⁴	4,730	57,900	1,280	11,600	29	555
Asphaltic concrete aggregates and road base materials ⁵	W	W	W	W	--	--
Fill ⁶	830	3,750	353	1,590	--	--
Unspecified: ⁷						
Reported	105	1,350	16	304	--	--
Estimated	910	9,500	3,800	39,500	--	--
Total	6,570	72,500	5,440	52,900	29	555

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

¹Includes production from District of Columbia sales yard.

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

³Specified districts are combined to avoid disclosing company proprietary data.

⁴Includes plaster and gunite sands.

⁵Includes road and other stabilization (cement and lime)

⁶Includes golf course and snow and ice control.

⁷Reported and estimated production without a breakdown by end use.