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2008 Minerals Yearbook

GEORGIA

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

July 2012

GEORGIA

LEGEND

- County boundary
- ★ Capital
- ● City
- 1— Crushed stone/sand gravel district

MINERAL SYMBOLS (Principal producing areas)

Ba	Barite
Cem	Cement plant
Clay	Common clay
CS	Crushed stone
D-G	Dimension granite
D-M	Dimension marble
Fel	Feldspar
FePig	Iron oxide pigments
Ful	Fuller's earth
Gyp	Gypsum plant
IS	Industrial sand
Ka	Kaolin
Mica	Mica
Mul	Synthetic mullite plant
Per	Perlite plant
SG	Construction sand and gravel
Steel	Steel plant
TiPig	Titanium dioxide pigment plant
⬭	Concentration of mineral operations

Source: Georgia Department of Natural Resources, Environmental Protection Division/U.S. Geological Survey (2008).

The Mineral Industry of Georgia

In 2008, Georgia's nonfuel raw mineral production[1] was valued at $1.80 billion, based upon annual U.S. Geological Survey data (USGS). This was a $268 million, or a 13% decrease from the State's total of $2.06 billion in 2007, which then had decreased by $5.7 million, or 0.3% from that of 2006. Georgia ranked 14th (10th in 2007) among the 50 States in total nonfuel raw mineral production value and accounted for 2.53% of the U.S. total value. Per capita, the State ranked 20th in the Nation in its mineral industry's nonfuel mineral production; with a population of about 9.7 million, the value of production was about $185 per capita.

Georgia continued to be the leading clay-producing State in the United States in 2008, accounting for 24% of the Nation's total clay (all kinds) production. Kaolin clay continued to be Georgia's leading nonfuel mineral commodity in 2008 and accounted for 48% of the State's raw nonfuel mineral value. Crushed stone was second, accounting for more than 37% of the State's nonfuel mineral value, followed by construction sand and gravel, fuller's earth clays, masonry cement, and portland cement.

[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 2008 USGS mineral production data published in this chapter are those available as of June 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.

In 2008, increases in production value took place in the mineral commodities of crude mica, feldspar, and industrial sand and gravel. Industrial sand and gravel production value increased by 15%, or nearly $3 million, whereas its production increased by 19%. The decrease in the total nonfuel raw mineral value was owing to decreases in the production value of crushed stone, kaolin clay, and construction sand and gravel, down by $149 million, $53 million, $24 million, respectively. Crushed stone production was down 23% and its value decreased by 18%; the value of kaolin clay declined 6% and its production decreased by 4%; and the value of construction sand and gravel decreased by 37% with a 28% decrease in production (table 1). A moderate decrease in the production value of cement (masonry and portland) coincided with a small decrease in the commodity production. Smaller, yet significant, decreases in the production value also took place in the mineral commodities of common clays, dimension stone, fuller's earth clay, and iron oxide pigments.

In 2008, Georgia continued to lead the Nation in the quantities of kaolin, fuller's earth clay, and iron oxide pigments produced (descending order of value). It remained second of two barite-producing States, third in crude mica, fifth in feldspar, and eighth in masonry cement. The State rose to fourth from fifth in dimension stone, despite a decrease to fifth from fourth in common clays, and to sixth from fifth in crushed stone. Additionally, Georgia was a significant producer of industrial sand and gravel, accounting for 2.8% of the total U.S. production of the commodity, as well as construction sand and gravel and portland cement.

TABLE 1
NONFUEL RAW MINERAL PRODUCTION IN GEORGIA[1, 2]

(Thousand metric tons and thousand dollars)

Mineral	2006		2007		2008	
	Quantity	Value	Quantity	Value	Quantity	Value
Barite	W	W	W	W	7	1,350
Clays:						
Common	1,510	9,150	1,350	8,110	952	6,020
Fuller's earth	747	64,300	758 r	67,700	682 [3]	58,000 [3]
Kaolin	6,920	945,000	6,570	924,000	6,290	872,000
Gemstones, natural	NA	9	NA	9	NA	74
Sand and gravel:						
Construction	10,700	69,000	10,200	63,800	7,350	40,200
Industrial	973	17,400	1,040	18,100	841	20,700
Stone:						
Crushed	89,000	802,000	80,100 r	815,000 r	61,900	666,000
Dimension	140 r	22,800 r	162 r	18,900 r	169	18,200
Combined values of cement, clays [fuller's earth (2008)], feldspar, iron oxide pigments (crude), lime, mica (crude)	XX	140,000	XX	148,000	XX	114,000
Total	XX	2,070,000	XX	2,060,000	XX	1,800,000

rRevised. NA Not available. W Withheld to avoid disclosing company proprietary data. Withheld values included in "Combined values" data. 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]Excludes attapulgite; included in "Combined values."

TABLE 2
GEORGIA: CRUSHED STONE SOLD OR USED, BY TYPE[1]

(Thousand metric tons and thousand dollars)

	2007			2008		
Type	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Number of quarries	Quantity (thousand metric tons)	Value (thousands)
Limestone	19 r	9,850 r	$106,000 r	18	7,020	$78,200
Marble	4	1,700 r	33,600 r	3	1,160	32,200
Granite	60 r	67,700 r	666,000 r	61	53,100	549,000
Sandstone & quartzite	3	771	7,750	2	499	5,710
Slate	1	131	1,340	1	84	903
Total	XX	80,100 r	815,000 r	XX	61,900	666,000

rRevised. XX Not applicable.
[1]Data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 3
GEORGIA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2008, BY USE[1]

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch):		
Riprap and jetty stone	W	W
Filter stone	W	W
Other coarse aggregate	1,030	13,100
Coarse aggregate, graded:		
Concrete aggregate, coarse	W	W
Railroad ballast	W	W
Other graded coarse aggregate	12,700	153,000
Fine aggregate (-⅜ inch):		
Stone sand, concrete	W	W
Stone sand, bituminous mix or seal	W	W
Screening, undesignated	W	W
Other fine aggregate	7,920	89,900
Coarse and fine aggregates:		
Graded road base or subbase	836	5,650
Terrazzo and exposed aggregate	W	W
Crusher run or fill or waste	W	W
Roofing granules	W	W
Other coarse and fine aggregates	19,100	170,000
Other construction materials	72	2,660
Agricultural, limestone	W	W
Chemical and metallurgical:		
Cement manufacture	W	W
Lime manufacture	W	W
Special:		
Asphalt fillers or extenders	W	W
Other fillers or extenders	1,250	33,700
Other miscellaneous uses and specified uses not listed	30	1,360
Unspecified:[2]		
Reported	12,800	139,000
Estimated	1,300	14,000
Total	61,900	666,000

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.

TABLE 4
GEORGIA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2008, BY USE AND DISTRICT[1]

(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]	547	5,310	W	W	W	W
Coarse aggregate, graded[3]	W	W	W	W	W	W
Fine aggregate (-⅜ inch)[4]	W	W	W	W	W	W
Coarse and fine aggregates[5]	5,580	49,700	W	W	4,670	43,400
Other construction materials	22	1,960	--	--	50	701
Agricultural[6]	W	W	--	--	--	--
Chemical and metallurgical[7]	--	--	--	--	W	W
Special[8]	1,250	33,700	--	--	W	W
Other miscellaneous uses	30	1,360	--	--	--	--
Unspecified:[9]						
Reported	3,680	39,900	2,720	29,100	6,370	70,400
Estimated	1,200	13,000	--	--	141	1,500
Total	17,200	199,000	24,500	257,000	20,200	210,000

W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.
[1]Data are rounded to no more than three significant digits; may not add to totals shown.
[2]Includes filter stone, riprap and jetty stone, and other coarse aggregate.
[3]Includes concrete aggregate (coarse), railroad ballast, and other graded coarse aggregate.
[4]Includes stone sand (concrete), stone sand (bituminous mix or seal), screening (undesignated), and other fine aggregate.
[5]Includes crusher run or fill or waste, graded road base or subbase, terrazzo and exposed aggregate, and other coarse and fine aggregates.
[6]Includes agricultural limestone.
[7]Includes cement and lime manufacture.
[8]Includes asphalt fillers or extenders and other fillers or extenders.
[9]Reported and estimated production without a breakdown by end use.

TABLE 5
GEORGIA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2008, BY MAJOR USE CATEGORY[1]

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	5,090	$25,600	$5.03
Plaster and gunite sands	403	3,950	9.80
Concrete products (blocks, bricks, pipe, decorative, etc.)	54	269	4.98
Road base and coverings	W	W	4.81
Fill	43	147	3.42
Other miscellaneous uses[2]	27	134	4.96
Unspecified:[3]			
Reported	652	4,190	6.43
Estimated	1,080	5,980	5.51
Total or average	7,350	40,200	5.48

W Withheld to avoid disclosing company proprietary data; included in "Other miscellaneous uses."
[1]Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.
[2]Includes golf course.
[3]Reported and estimated production without a breakdown by end use.

TABLE 6
GEORGIA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2008, BY USE AND DISTRICT[1, 2]

(Thousand metric tons and thousand dollars)

Use	Districts 1 and 2		District 3		Unspecified district	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregates and concrete products[3]	W	W	W	W	--	--
Road base and coverings	W	W	--	--	--	--
Fill	4	16	39	131	--	--
Other miscellaneous uses[4]	1,580	7,200	4,000	21,700	--	--
Unspecified:[5]						
Reported	--	--	533	3,340	119	852
Estimated	456	2,510	628	3,460	--	--
Total	2,040	10,700	5,200	28,700	119	852

W Withheld to avoid disclosing company proprietary data; included in "Other miscellaneous uses." -- Zero.

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

[2]Specified districts are combined to avoid disclosing company proprietary data.

[3]Includes plaster and gunite sands.

[4]Includes golf course.

[5]Reported and estimated production without a breakdown by end use.