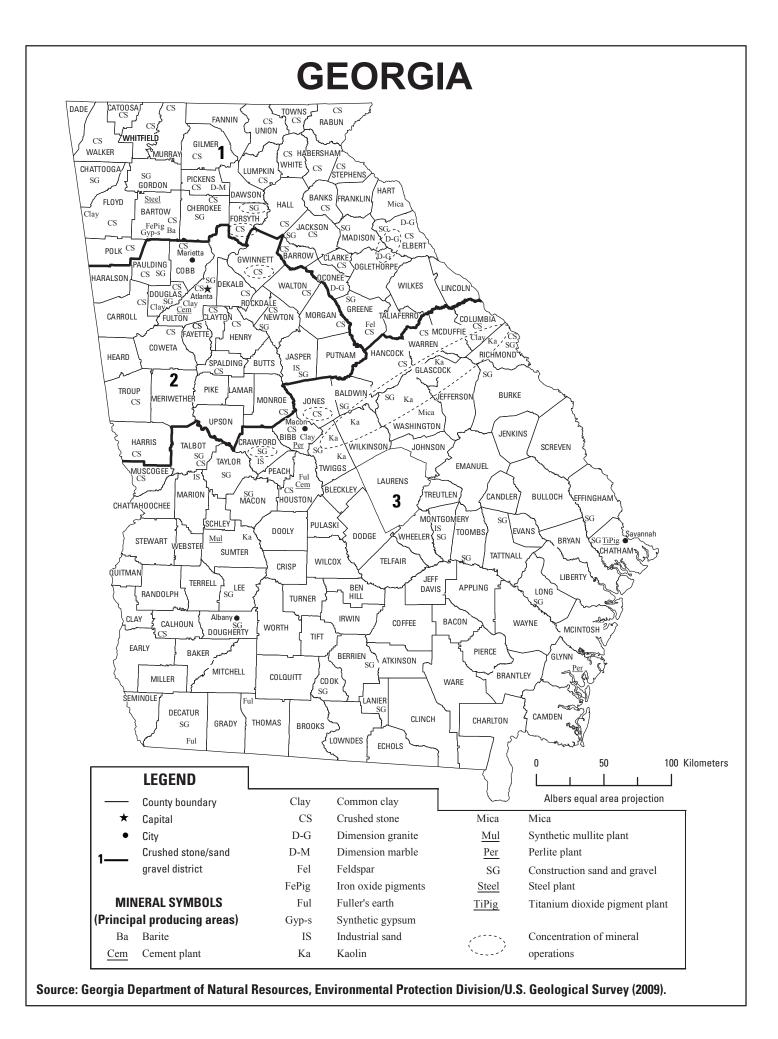


2009 Minerals Yearbook

GEORGIA



THE MINERAL INDUSTRY OF GEORGIA

In 2009, Georgia's nonfuel raw mineral production¹ was valued at \$1.4 billion, based upon annual U.S. Geological Survey data (USGS). This was a \$378 million, or a 21%, decrease from the State's total of about \$1.8 billion in 2008, which then had decreased by \$274 million, or 13% from that of 2007. The State remained 14th in rank among the 50 States in total nonfuel raw mineral production value and accounted for 2.4% of the U.S. total. Yet, per capita, the State ranked 22d in the Nation in its mineral industry's nonfuel mineral production; with a population of about 9.8 million, the value of production was about \$144 per capita.

Georgia continued to be the leading clay-producing State in the United States in 2009, accounting for 23% of the Nation's total clay (all kinds) production. Kaolin clay, by value, remained Georgia's leading nonfuel mineral commodity, followed by crushed stone. The combined value of these two leading mineral commodities accounted for 86% of the State's total nonfuel mineral production value. Georgia's decrease in total nonfuel mineral production value was the result of decreases

All 2009 USGS mineral production data published in this chapter are those available as of September 2011. 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 the majority of the State's mineral commodity values, the largest decrease being that of kaolin clay, down by \$179 million followed by crushed stone, down by \$148 million. Moderate decreases in production value took place for cement (masonry and portland, withheld—company proprietary data) and construction sand and gravel, down by \$9.2 million. Decreases in the production value took place for common clays, down by \$2.1 million; industrial sand and gravel, down by \$1.4 million; and dimension stone, down by \$1.2 million. Decreases in the production value also took place for crude mica and fuller's earth clay. Smaller, yet significant, decrease in the production value also took place for iron oxide pigments. A moderate increase in the production value of lime coincided with a moderate increase in lime production. A smaller, yet significant, increase in the production value also took place for feldspar, despite a decrease in the quantity produced. The production value of barite and natural gemstone remained the same as that of 2008.

In 2009, Georgia continued to lead the Nation in the quantities of kaolin and iron oxide pigments produced (descending order of value). It remained second of two barite-producing States, third in crude mica, fourth in dimension stone, fifth in common clays, and sixth in crushed stone. The State rose to seventh from eighth in masonry cement and decreased to sixth from fifth in feldspar. Additionally, Georgia was a significant producer of industrial sand and gravel, accounting for 3.2% of the total U.S. production of the commodity.

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

(Thousand metric tons and thousand dollars)

	200	2007			200	9
Mineral	Quantity	Value	Quantity	Value	Quantity	Value
Barite	W	W	7	1,350	7	1,350
Clays:	_					
Common	1,350	8,110	952	6,020	631	3,870
Fuller's earth	758	67,700	646 r, 3	51,800 r, 3	W	W
Kaolin	6,570	924,000	6,290	872,000	4,970	693,000
Gemstones, natural	NA	9	NA	74	NA	74
Sand and gravel:	_					
Construction	10,200	63,800	7,360 ^r	40,300 ^r	5,260	31,100
Industrial	1,040	18,100	841	20,700	775	19,300
Stone:	_					
Crushed	80,100	815,000	61,900	666,000	45,100	518,000
Dimension	162	18,900	169	18,200	153	16,900
Combined values of cement, clays [fuller's earth (2008)],	_					
feldspar, iron oxide pigments (crude), lime,						
mica (crude), and values indicated by symbol W	XX	148,000	XX	114,000	XX	128,000
Total	XX	2,060,000	XX	1,790,000 ^r	XX	1,410,000

^rRevised. NA Not available. W Withheld to avoid disclosing company proprietary data. Withheld values included in "Combined values" data. XX Not applicable.

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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.

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

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

³Excludes attapulgite; included in "Combined values."

 $\label{eq:table 2} \textbf{TABLE 2}$ GEORGIA: CRUSHED STONE SOLD OR USED, BY \textbf{TYPE}^1

(Thousand metric tons and thousand dollars)

		2008				
	Number	Quantity		Number	Quantity	
	of	(thousand	Value	of	(thousand	Value
Type	quarries	metric tons)	(thousands)	quarries	metric tons)	(thousands)
Limestone	17 ^r	6,980 ^r	\$77,800 °	14	5,100	59,700
Marble	3	1,160	32,200	3	1,050	31,800
Granite	62 ^r	53,200 ^r	549,000	63	38,100	417,000
Sandstone & quartzite	r	r	r			
Slate	r	r	r			
Miscellaneous stone	3	583	6,620	3	855	9,060
Total	XX	61,900	666,000	XX	45,100	518,000

^rRevised. XX Not applicable. -- Zero.

 ${\it TABLE~3} \\ {\it GEORGIA: CRUSHED~STONE~SOLD~OR~USED~BY~PRODUCERS} \\ {\it IN~2009, BY~USE}^1 \\ {\it TABLE~3} \\ {\it T$

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:	-	
Coarse aggregate (+1½ inch):		
Riprap and jetty stone	85	709
Filter stone	W	W
Other coarse aggregate	812	10,400
Coarse aggregate, graded:		
Concrete aggregate, coarse	894	5,140
Bituminous aggregate, coarse	W	W
Railroad ballast	W	W
Other graded coarse aggregate	8,040	103,000
Fine aggregate (-3/8 inch):		
Stone sand, concrete	W	W
Stone sand, bituminous mix or seal	W	W
Screening, undesignated	934	8,650
Other fine aggregate	7,160	86,200
Coarse and fine aggregates:		
Graded road base or subbase	W	W
Unpaved road surfacing	W	W
Terrazzo and exposed aggregate	W	W
Crusher run or fill or waste	W	W
Other coarse and fine aggregates	9,970	101,000
Agricultural, limestone	W	W
Chemical and metallurgical, lime manufacture	W	W
Special:		
Mine dusting or acid water treatment	W	W
Asphalt fillers or extenders	W	W
Other fillers or extenders	848	27,400
Unspecified: ²		
Reported	8,320	94,500
Estimated	3,950	45,600
Total	45,100	518,000

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.

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.

${\it TABLE~4}$ GEORGIA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2009, BY USE $\,$ AND DISTRICT 1

(Thousand metric tons and thousand dollars)

	Distric	District 1		District 2		District 3	
Use	Quantity	Value	Quantity	Value	Quantity	Value	
Construction:							
Coarse aggregate (+1½ inch) ²	439	4,360	W	W	W	W	
Coarse aggregate, graded ³	W	W	W	W	W	W	
Fine aggregate (-3/8 inch) ⁴	W	W	W	W	W	W	
Coarse and fine aggregates ⁵	W	W	W	W	W	W	
Agricultural ⁶	W	W					
Chemical and metallurgical ⁷					W	W	
Special ⁸	W	W			W	W	
Unspecified: ⁹							
Reported	3,110	34,600	3,700	42,200	1,510	17,700	
Estimated	1,160	19,100			2,790	26,500	
Total	11,300	152,000	15,300	173,000	18,400	192,000	

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

TABLE 5 GEORGIA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2009, BY MAJOR USE CATEGORY $^{\rm I}$

	Quantity			
	(thousand	Value	Unit	
Use	metric tons)	(thousands)	value	
Concrete aggregate (including concrete sand)	2,676	\$15,524	\$5.80	
Plaster and gunite sands	219	1,183	5.40	
Concrete products (blocks, bricks, pipe, decorative, etc.)	W	W	5.93	
Road base and coverings	W	W	4.22	
Fill	27	94	3.48	
Other miscellaneous uses ²	77	407	5.29	
Unspecified: ³				
Reported	1,377	8,459	6.14	
Estimated	885	5,394	6.09	
Total or average	5,261	31,061	5.90	

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

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

²Includes filter stone, riprap and jetty stone, and other coarse aggregate.

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

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

⁵Includes crusher run or fill or waste, graded road base or subbase, terrazzo and exposed aggregate, unpaved road surfacing, and other coarse and fine aggregates.

⁶Includes limestone.

⁷Includes lime manufacture.

⁸Includes asphalt fillers or extenders, mine dusting or acid water treatment, and other fillers or extenders.

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

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

²Includes filtration.

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

TABLE 6 GEORGIA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2009, BY USE AND DISTRICT $^{\rm l}$

(Thousand metric tons and thousand dollars)

	Distric	et 1	District 2		District 3		Unspecified district	
Use	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregates and concrete products ²	W	W	(3)	(3)	W	W		
Road base and coverings	W	W						
Fill	W	W			W	W		
Other miscellaneous uses ⁴	113	686			2,850	16,200		
Unspecified: ⁵								
Reported	810	4,690			525	3,470	42	299
Estimated	144	889	(3)	(3)	494	2,980		
Total	1,070	6,260	283	1,860	3,870	22,600	42	299

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

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

²Includes plaster and gunite sands.

³Withheld to avoid disclosing company proprietary data; included in "Total."

⁴Includes filtration.

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