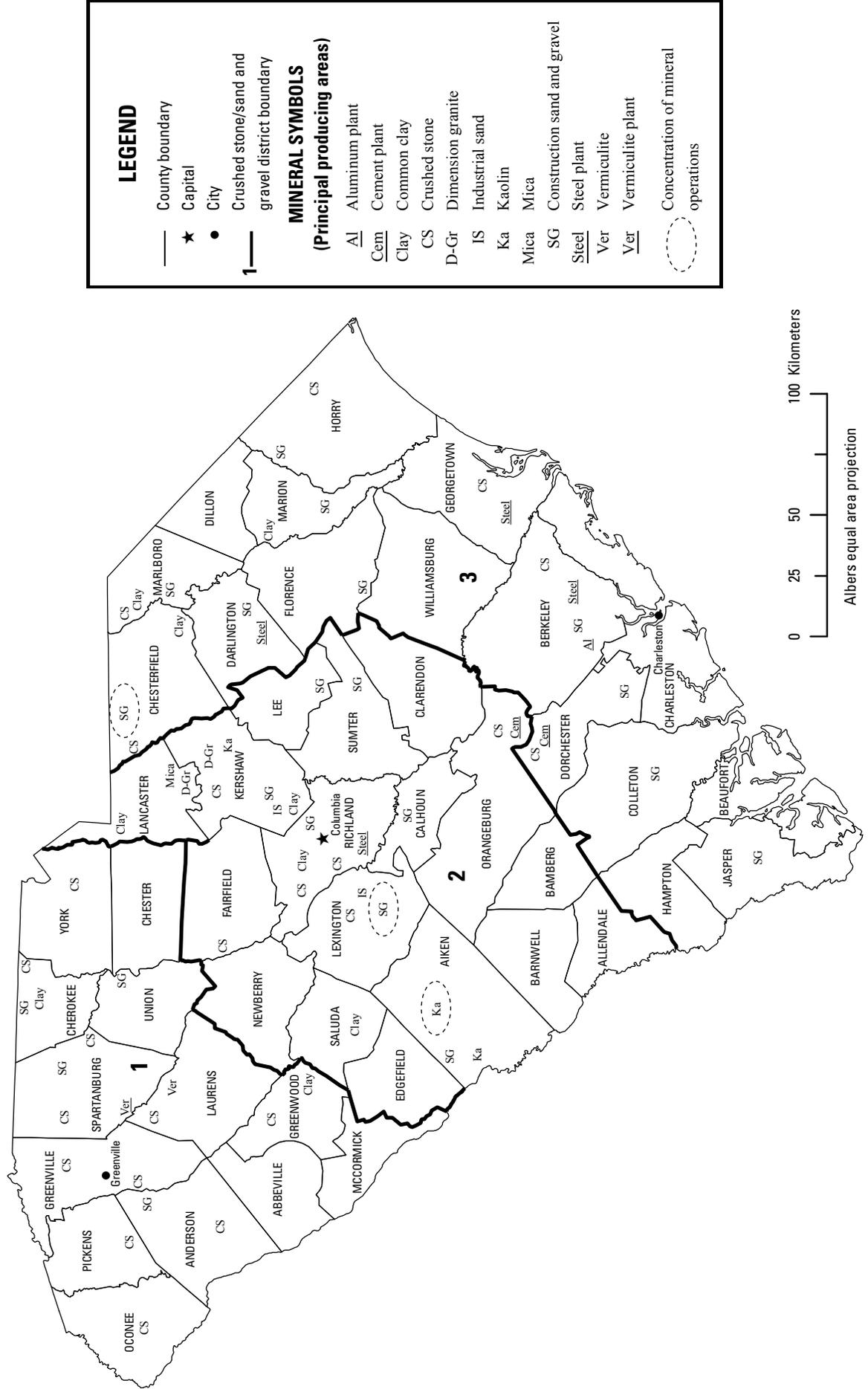




2008 Minerals Yearbook

SOUTH CAROLINA [ADVANCE RELEASE]

SOUTH CAROLINA



Source: South Carolina Geological Survey/U.S. Geological Survey (2008).

THE MINERAL INDUSTRY OF SOUTH CAROLINA

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

In 2008, South Carolina's nonfuel raw mineral production¹ was valued at \$639 million, based upon annual U.S. Geological Survey (USGS) data. This was a \$167 million, or a 20.7%, decrease from the State's total nonfuel mineral value of \$806 million in 2007, which was up by \$77 million, or 10.6%, from \$729 million in 2006. South Carolina declined to 33d from 26th in rank among the 50 States in total nonfuel mineral production value from 2007 to 2008. [Because data for crude mica and crude vermiculite have been withheld (company proprietary data), the actual total value for the State is higher than that reported in table 1.]

Construction minerals and materials constituted the majority of South Carolina's nonfuel mineral production. In 2008, portland cement, by production value, remained the State's leading nonfuel mineral commodity followed by crushed stone, construction sand and gravel, masonry cement, and industrial sand and gravel. These five mineral commodities accounted for almost 98% of the State's total nonfuel mineral value.

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>.

Excluding crude mica and crude vermiculite (withheld—company proprietary data), South Carolina saw a decrease in every mineral commodity for both quantities produced and production value, except gemstones. [There was no decline in production value for gemstones and production figures are not available (table 1).] The three smallest decreases, as a percentage of the State's total production value in 2008, were seen in industrial sand and gravel, dimension stone, and fire clays. The largest decreases were seen in three of the State's leading nonfuel mineral commodities—portland cement, crushed stone, and masonry cement.

In spite of the decreases in production and production values, South Carolina continued to rank first in the quantities of vermiculite produced. The only other vermiculite-producing State in 2008 was Virginia. South Carolina remained second in the production of kaolin clay and fourth in crude mica and fire clay. Nine States produced kaolin clay, five produced crude mica, and four produced fire clay in 2008. South Carolina rose from third to second in the production of masonry cement. The State decreased from eighth to ninth in the production of portland cement.

Primary aluminum and raw steel also were produced in the State but from raw materials acquired from foreign and other domestic sources. In 2008, primary aluminum production remained virtually unchanged from that of 2007, and South Carolina remained seventh of 11 States.

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

(Thousand metric tons and thousand dollars)

Mineral	2006		2007		2008	
	Quantity	Value	Quantity	Value	Quantity	Value
Cement:						
Masonry	575	68,900 ^e	491	60,100 ^e	323	41,600 ^e
Portland	3,320	294,000 ^e	3,680	355,000 ^e	2,930	284,000 ^e
Clays:						
Common	992	4,250	826	3,990 ^r	461	2,130
Fire	60	348	37	83	29	66
Kaolin	294	17,900	297	17,600	199	11,300
Gemstones, natural	NA	1	NA	1	NA	1
Mica, crude	W	W	W	W	W	W
Sand and gravel:						
Construction	10,900	51,100	10,300 ^r	56,500 ^r	9,160	44,100
Industrial	905	21,800	837	22,000	679	21,100
Stone:						
Crushed	31,400 ^r	270,000 ^r	30,400 ^r	290,000 ^r	22,500	235,000
Dimension	9	850	9	850	4	472
Vermiculite	W	W	W	W	W	W
Total	XX	729,000 ^r	XX	806,000 ^r	XX	639,000

^eEstimated. ^rRevised. NA Not available. W Withheld to avoid disclosing company proprietary data. XX Not applicable.

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.

TABLE 2
SOUTH CAROLINA: 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	5 ^r	4,460 ^r	\$39,000 ^r	5	2,830	\$28,200
Calcareous marl	3	4,000 ^r	24,300 ^r	3	3,500	19,700
Granite	23	21,300	220,000	23	15,800	181,000
Miscellaneous stone	1	622	6,840	1	370	5,280
Total	XX	30,400 ^r	290,000 ^r	XX	22,500	235,000

^rRevised. XX Not applicable.

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

TABLE 3
SOUTH CAROLINA: 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):		
Macadam	W	W
Riprap and jetty stone	W	W
Filter stone	W	W
Other coarse aggregate	227	4,540
Coarse aggregate, graded:		
Concrete aggregate, coarse	W	W
Bituminous aggregate, coarse	W	W
Railroad ballast	W	W
Other graded coarse aggregate	2,500	40,100
Fine aggregate (-¾ inch):		
Stone sand, concrete	W	W
Stone sand, bituminous mix or seal	W	W
Screening, undesignated	W	W
Other fine aggregate	2,280	29,400
Coarse and fine aggregates:		
Graded road base or subbase	W	W
Crusher run or fill or waste	349	2,310
Other coarse and fine aggregates	2,710	27,400
Chemical and metallurgical, cement manufacture	3,500	19,700
Unspecified: ²		
Reported	8,060	81,600
Estimated	992	10,000
Total	22,500	235,000

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
SOUTH CAROLINA: 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	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 aggregate ⁵	W	W	W	W	784	7,930
Chemical and metallurgical ⁶	--	--	W	W	W	W
Unspecified: ⁷						
Reported	3,190	32,800	953	9,450	3,910	39,300
Estimated	--	--	40	310	952	9,900
Total	8,250	91,600	5,580	53,900	8,710	89,000

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 filter stone, macadam, riprap and jetty stone, and other coarse aggregate.

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

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

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

⁶Includes cement manufacture.

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

TABLE 5
SOUTH CAROLINA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2008,
BY MAJOR USE CATEGORY¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand) ²	3,370	\$15,900	\$4.70
Concrete products (blocks, bricks, pipe, decorative, etc.)	123	715	5.81
Asphaltic concrete aggregates and road base materials ³	297	1,550	5.23
Fill	908	1,980	2.18
Snow and ice control	1	10	10.00
Golf course	78	706	9.05
Other miscellaneous uses	54	430	7.96
Unspecified: ⁴			
Reported	2,090	12,000	5.71
Estimated	2,240	10,900	4.85
Total or average	9,160	44,100	4.81

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

²Includes plaster and gunite sands.

³Includes road and other stabilization (cement).

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

TABLE 6
SOUTH CAROLINA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED 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
Concrete aggregate and concrete products ²	220	1,390	1,510	6,190	1,760	8,980
Fill	8	90	171	365	729	1,520
Other miscellaneous uses ³	64	458	95	584	271	1,660
Unspecified: ⁴						
Reported	--	--	--	--	2,090	12,000
Estimated	62	298	1,400	6,780	778	3,780
Total	353	2,240	3,180	13,900	5,630	27,900

-- Zero.

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

²Includes asphaltic concrete aggregates, plaster and gunite sands, road and other stabilization (cement) and road base materials.

³Includes golf course and snow and ice control.

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