2010–2011 Minerals Yearbook

MISSISSIPPI [ADVANCE RELEASE]

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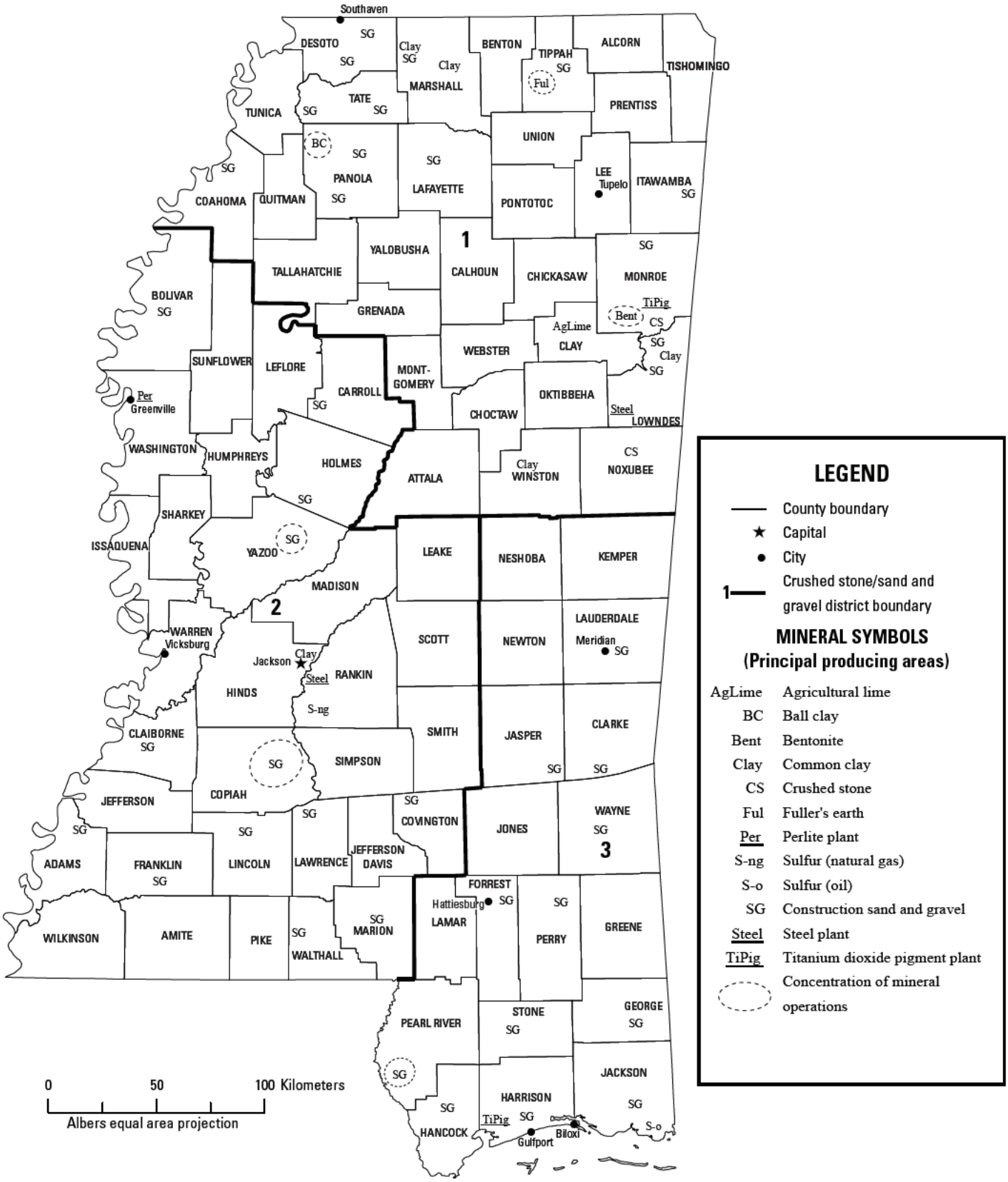
MISSISSIPPI



Source: Mississippi Department of Environmental Quality/U.S. Geological Survey (2010–11).

The Mineral Industry of Mississippi

This chapter has been prepared under a Memorandum of Understanding between the U.S. Geological Survey and the Mississippi Department of Environmental Quality, Office of Geology, for collecting information on all nonfuel minerals.

In 2011, Mississippi's nonfuel mineral production[1] was valued at $195 million, based upon annual U.S. Geological Survey (USGS) data. This was a nearly $2.3 million increase from the State's total nonfuel mineral production value of $193 million in 2010, which followed a $9.9 million (5%) decrease from the production value total of $203 million in 2009. Mississippi continued to rank 42d among the 50 States for total nonfuel mineral production value in 2009, through 2011, down from 38th in 2008, and accounted for about one-third of one percent of the total U.S. nonfuel mineral production value in 2010 and 2011. On a per capita basis, Mississippi ranked 44th in in the Nation in nonfuel production in 2011 with a value of $66, well below the national average of $240.

In 2010 and 2011, construction sand and gravel remained Mississippi's leading nonfuel mineral commodity. Based on production value, it accounted for approximately 48% of the State's total nonfuel mineral production value in both years. The production of construction sand and gravel decreased by 3.3% in 2011 after remaining flat in 2010. In 2011, the production value of construction sand and gravel decreased slightly following a nearly 2% decline in 2010. The production values of ball clay and fuller's earth (montmorillonite) increased by 9.1% and 2.5%, respectively, in 2011, after decreasing in production value by 12.4% and 9.6%, respectively, in 2010 (actual values withheld—company proprietary data).

In 2011 and 2010, crushed stone remained the State's second leading mineral commodity, based on production value, and accounted for approximately one-third of the State's total nonfuel mineral production value in both years. The production value of crushed stone increased by 2.3% in 2011 following a slight increase in 2010, even though the quantity of crushed stone produced decreased slightly in 2011 after having decreased in 2010. The quantity of bentonite clay produced in Mississippi decreased by 5.6% in 2011 following a 5.3% increase in 2010. Correspondingly, the production value of bentonite clay decreased by 5% in 2011, after a 10% increase in production value in 2010 (values withheld–company proprietary data).

Mississippi continued to rank third in ball clay production among 5 producing States and sixth in bentonite production among 11 producing States in both 2011 and 2010. In 2011, the State ranked fourth in the production of fuller's earth (montmorillonite) among 10 montmorillonite-producing States after declining to fourth from third in 2010. The State was 26th in 2011in the production of construction sand and gravel, 23d in 2010, and 24th in 2009.

Steel produced in Mississippi was processed from raw materials (including scrap) received from domestic and foreign sources. Steel was produced at facilities near Jackson in Rankin County, and in Lowndes County in the eastern portion of the State. Titanium dioxide pigments were produced at the 340,000-metric-ton-per-year (-t/yr)-capacity DeLisle plant, owned and operated by E.I. du Pont de Nemours and Co. (Wilmington, DE), beside Bay St. Louis in Harrison County west of Gulfport, and at Tronox Inc.'s (Stamford, CT) 225,000-t/yr-capacity Hamilton plant in Monroe County.

[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 USGS mineral production data published in this chapter are those available as of May 2013. 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.

TABLE 1
NONFUEL MINERAL PRODUCTION IN MISSISSIPPI[1, 2]

(Thousand metric tons and thousand dollars)

Mineral	2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value
Clays, common						
Bentonite	W	W	W	W	W	W
Common	263	1,540	259	1,540	264	1,570
Fuller's earth	W	W	W	W	W	W
Gemstones, natural	NA	1	NA	1	NA	1
Sand and gravel, construction	11,900 r	95,800 r	12,000	93,800	11,600	93,600
Stone, crushed	3,130	63,400	2,730	63,500	2,720	65,000
Combined values of cement (portland), clays (ball, fuller's earth), sand and gravel [industrial (2009)], and values indicated by symbol W	XX	42,200	XX	34,100	XX	35,100
Total	XX	203,000 r	XX	193,000	XX	195,000

[r]Revised. NA Not available. W Withheld to avoid disclosing company proprietary data. Withheld values included in “Combined values” data. XX Not applic
[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.

TABLE 2

MISSISSIPPI: CRUSHED STONE SOLD OR USED IN THE UNITED STATES, BY TYPE[1]

Type	2009				2010				2011			
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value
Limestone[2]	4	3,080	$62,700	$20.36	4	2,710	$63,200	$23.35	4	2,700	$64,600	$23.96
Miscellaneous stone	2	45	664	14.76	1	24	325	13.45	1	28	375	13.44
Total or average	XX	3,130	63,400	20.25	XX	2,730	63,500	23.26	XX	2,720	65,000	23.85

[r]Revised. XX Not applicable.

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

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

TABLE 3
MISSISSIPPI: CRUSHED STONE SOLD OR USED BY PRODUCERS
IN 2010, BY USE[1]

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch), other coarse aggregates	W	W
Coarse aggregate, graded:		
Concrete aggregate, coarse	W	W
Bituminous aggregate, coarse	W	W
Other graded coarse aggregate	W	W
Fine aggregate (-⅜ inch), other fine aggregates	W	W
Coarse and fine aggregates, other coarse and fine aggregates	W	W
Agricultural, agricultural limestone	97	2,900
Chemical and metallurgical, sulfur oxide removal	W	W
Unspecified:[2]		
Reported	434	10,300
Total	2,730	63,500

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
MISSISSIPPI: CRUSHED STONE SOLD OR USED BY PRODUCERS
IN 2011, BY USE[1]

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch), unspecified coarse aggregate	W	W
Coarse aggregate, graded:		
Concrete aggregate, coarse	45	550
Bituminous aggregate, coarse	45	497
Bituminous surface-treatment aggregate	W	W
Unspecified graded coarse aggregate	W	W
Fine aggregate (-⅜ inch), unspecified fine aggregate	W	W
Coarse and fine aggregates, unspecified coarse and fine aggregates	W	W
Agricultural, agricultural limestone	W	W
Unspecified:[2]		
Reported	458	11,300
Estimated	250	6,070
Total	2,720	65,000

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 5
MISSISSIPPI: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2010, 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]	W	W	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]	W	W	W	W	W	W
Agricultural[6]	97	2,900	--	--	W	W
Chemical and metallurgical[7]	W	W	--	--	--	--
Unspecified:[8]						
Reported	217	5,130	217	5,130	--	--
Estimated	--	--	--	--	--	--
Total[9]	650	12,800	460	8,560	1,640	42,800

Use	Unspecified district	
	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch)[2]	W	W
Coarse aggregate, graded[3]	W	W
Fine aggregate (-⅜ inch)[4]	--	--
Coarse and fine aggregates[5]	W	W
Agricultural[6]	--	--
Chemical and metallurgical[7]	--	--
Unspecified:[8]	--	--
Reported	--	--
Estimated	--	--
Total[9]	156	1,320

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 macadam, riprap and jetty stone, filter stone, and other coarse aggregates.
[3]Includes concrete aggregate (coarse), bituminous aggregate (coarse), bituminous surface-treatment aggregate, railroad ballast, and other graded coarse aggregates.
[4]Includes stone sand (concrete), stone sand (bituminous mix or seal), screening (undesignated), and other fine aggregates.
[5]Includes graded road base or subbase, unpaved road surface, terrazzo and exposed aggregate, crusher run, roofing granules, and other coarse and fine aggregates.
[6]Includes agricultural limestone.
[7]Includes cement manufacture and sulfur oxide removal.
[8]Reported and estimated production without a breakdown by end use.
[9]District totals may not add up to the published State total, owing to revisions made after the production of the table and (or) proprietary data being withheld.

TABLE 6

MISSISSIPPI: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2011, 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]	W	W	W	W	W	W
Coarse aggregate, graded[3]	W	W	W	W	W	W
Fine aggregate (-⅜ inch)[4]	--	--	W	W	W	W
Coarse and fine aggregates[5]	W	W	W	W	W	W
Agricultural[6]	--	--	--	--	W	W
Unspecified:[7]						
Reported	168	4,160	290	7,190	--	--
Estimated	250	6,070	--	--	--	--
Total[8]	551	12,100	W	W	W	W

Use	Unspecified	
	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch)[2]	5	57
Coarse aggregate, graded[3]	243	1,950
Fine aggregate (-⅜ inch)[4]	--	--
Coarse and fine aggregates[5]	4	34
Agricultural[6]	--	--
Unspecified:[7]		
Reported	--	--
Estimated	--	--
Total[8]	253	2,040

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 total shown.

[2]Includes macadam, riprap and jetty stone, filter stone, and other coarse aggregates.

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

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

[5]Includes graded road base or subbase, unpaved road surface, terrazzo and exposed aggregate, crusher run, roofing granules, and other coarse and fine aggregates.

[6]Includes agricultural limestone, poultry grit and mineral food, and other agricultural uses.

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

[8]District totals may not add up to the published State total, owing to revisions made after the production of the table and/or proprietary data being withheld.

TABLE 7
MISSISSIPPI: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2010,
BY MAJOR USE CATEGORY[1]

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	3,240	$19,300	$5.97
Plaster and gunite sands	21	205	9.76
Concrete products (blocks, bricks, pipe, decorative, etc.)	6	70	11.67
Asphaltic concrete aggregates and other bituminous mixtures	851	9,100	10.69
Road base and coverings	614	3,260	5.31
Other miscellaneous uses[2]	300	839	2.80
Unspecified:[3]			
Reported	1,190	12,900	10.85
Estimated	6,300	51,400	8.17
Total or average	12,000	93,800	7.76

[1]Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.
[2]Includes fill and snow and ice control.
[3]Reported and estimated production without a breakdown by end use.

TABLE 8
MISSISSIPPI: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2011,
BY MAJOR USE CATEGORY[1]

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	2,550	$20,300	$7.96
Plaster and gunite sands	48	328	6.83
Concrete products (blocks, bricks, pipe, decorative, etc.)	16	36	2.25
Asphaltic concrete aggregates and other bituminous mixtures	698	7,020	10.06
Road base and coverings	658	4,110	6.25
Other miscellaneous uses[2]			
Unspecified:[3]			
Reported	1,920	16,400	8.54
Estimated	5,410	44,100	8.15
Total or average	11,600	93,600	8.07

[1]Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.
[2]Includes fill, and snow and ice control.
[3]Reported and estimated production without a breakdown by end use.

TABLE 9
MISSISSIPPI: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2010, BY USE AND DISTRICT[1]

(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]	1,100	6,640	1,560	8,850	602	4,090
Asphaltic concrete aggregates and road base materials	662	5,420	597	6,310	206	634
Other miscellaneous uses[3]	152	351	118	384	31	104
Unspecified:[4]						
Reported	810	6,860	3	14	381	6,080
Estimated	1,070	8,630	3,170	26,000	2,060	16,800
Total[5]	3,790	27,900	5,450	41,500	3,280	27,700

[1]Data are rounded to no more than three significant digits; may not add to totals shown.
[2]Includes plaster and gunite sands.
[3]Includes fill and snow and ice control.
[4]Reported and estimated production without a breakdown by end use.
[5]District totals may not add up to the published State total, owing to revisions made after the production of the table and (or) proprietary data being withheld.

TABLE 10

MISSISSIPPI: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2011, BY USE AND DISTRICT[1]

(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]	1,040	7,890	842	7,920	735	4,840
Asphaltic concrete aggregates and road base materials	955	7,390	309	3,190	92	557
Other miscellaneous uses[3]	258	1,180	5	30	39	111
Unspecified:[4]						
Reported	884	7,070	766	7,260	269	2,080
Estimated	682	4,720	2,970	20,600	1,760	18,800
Total	3,810	28,300	4,900	39,000	2,890	26,400

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

[2]Includes plaster and gunite sands.

[3]Includes fill, and snow and ice control.

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