



# 2012–2013 Minerals Yearbook

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INDIANA [ADVANCE RELEASE]

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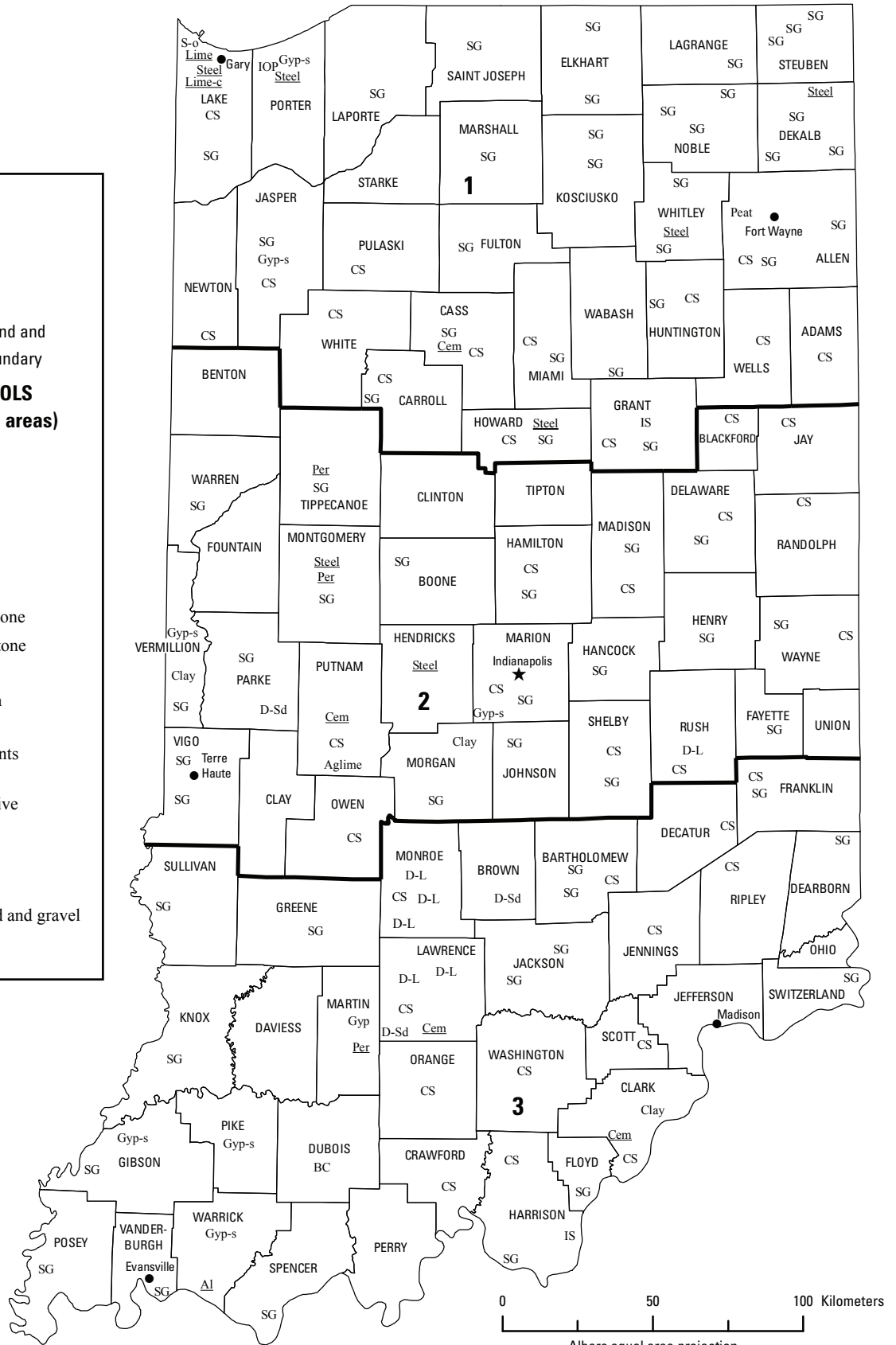
# INDIANA

## LEGEND

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

## MINERAL SYMBOLS (Principal producing areas)

- Aglime Agricultural lime
- Al Aluminum plant
- BC Ball clay
- Cem Cement plant
- Clay Common clay
- CS Crushed stone
- D-L Dimension limestone
- D-Sd Dimension sandstone
- Gyp Gypsum
- Gyp-s Synthetic gypsum
- IS Industrial sand
- IOP Iron oxide pigments
- Lime Lime plant
- Lime-c Lime plant - captive
- Peat Peat
- Per Perlite plant
- S-o Sulfur (oil)
- SG Construction sand and gravel
- Steel Steel plant



# THE MINERAL INDUSTRY OF INDIANA

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

In 2013, the value of the nonfuel mineral production<sup>1</sup> in the State of Indiana was \$813 million, 1.1% of the total U.S. nonfuel mineral production, ranking it 27th in the Nation. In 2012, the corresponding value was \$806 million, 1.1% of the U.S. total nonfuel mineral production, ranking it 30th among the 50 States. In 2013, on a per capita basis, nonfuel mineral production in Indiana had a value of \$124 compared with the national average of \$238. In 2012, the per capita value was \$122 compared with the national average of \$241.

The value of nonfuel mineral production in Indiana for the years 2006 through 2013 was as follows (in millions of dollars): \$986 (2006), \$986 (2007), \$894 (2008), \$894 (2009), \$786 (2010), \$754 (2011), \$806 (2012), and \$813 (2013).

In 2013, there were 1,232 employees in Indiana in nonfuel mineral mines and 1,045 in mills and preparation plants. In 2012, the corresponding numbers were 1,262 in nonfuel mineral mines and 1,200 in mills and preparation plants (U.S. Mine Safety and Health Administration, 2013, p. 9; 2014, p. 9). In 2013, the average annual wage in Indiana for all mining was \$68,628 compared with \$41,399 for all industries. In 2012, the corresponding figures were \$65,755 and \$41,075, respectively (National Mining Association, unpub. data, February 4, 2016).

In 2013, in descending order of production value, crushed stone, portland cement, and construction sand and gravel were Indiana's leading commodities. Despite the increase in value, the production quantity of construction sand and gravel decreased owing to decreases in the two largest reported end uses, construction aggregate and fill (tables 6 and 7). Other mineral commodities produced in the State included ball clay, common clay, cement (masonry), dimension stone, gemstones, gypsum, industrial sand and gravel, lime, and peat (table 1).

Almost all crushed stone production, Indiana's leading commodity, was limestone (table 2). Indiana limestone was important for sulfur oxide removal in flue gas desulfurization units, the number two reported end use for crushed stone in the State among respondents who provided that level of detail (table 3). Though Indiana was a producer of natural gypsum, synthetic gypsum was also produced as a byproduct of this flue gas desulfurization process. Indiana ranked third in dimension stone in 2013 out of 33 producing States because of the availability of suitable limestone deposits and established quarries. Limestone was also the feed material for four cement plants and two lime plants operating in the State.

<sup>1</sup>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 February 2016. Data in this report are rounded to three significant digits and percentages are calculated from unrounded data. 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>.

Though considered "downstream" and, therefore, not included in the State's total mineral production value, metals were produced in Indiana using materials obtained from other domestic and foreign sources. One aluminum plant and several steel plants operated in 2013 and 2012. Indiana's steel plants consumed approximately 5.9 million metric tons of scrap and 13.1 million metric tons of pig iron in each year (Fenton, 2014, 2015). One of the lime plants was dedicated to providing lime for the steel production process. Several companies processed slag, a waste product from the steel industry, for use as a substitute for stone aggregates in concrete and in some cases as a partial substitution for clinker in cement. Another waste product from the steel industry, spent pickle liquor (hydrochloric acid used to remove surface oxides), was processed into regenerated iron oxide for use in the pigment industry.

## Commodity Review

The Indiana Geological Survey (IGS)<sup>2</sup> provided reports on selected mineral commodities, except where otherwise noted, based upon the agency's own surveys and mine inquiries, company annual reports, and data and information derived from other State government agency sources. These data may differ from USGS data, which are based on company responses to USGS surveys and estimation for nonrespondents. The USGS withheld some data to avoid disclosing company proprietary data.

The IGS published several publications of interest to the industrial minerals industry during 2012 and 2013, including several maps published as part of the U.S. Geological Survey STATEMAP Project and a map of Indiana showing locations of active coal and industrial minerals operations (Shaffer and others, 2012). The 2-year \$105 billion federal highway bill, MAP-21, was passed in June 2012. From those funds, Indiana was to receive \$922 million in 2013 and \$930 million in 2014, which was expected to increase demand for construction aggregates.

## Industrial Minerals

**Cement.**—Three companies, having a total of four plants, continued to produce cement in Indiana during 2012 and 2013 as follows:

- Buzzi Unicem USA in Putnam County.
- Essroc Cement Corp., a subsidiary of Italcementi Group, in Cass and Clark Counties.
- Lehigh Portland Cement Co., a subsidiary of Heidelberger Zement AG, in Lawrence County.

<sup>2</sup>Kathryn Shaffer, Minerals Statistician, Indiana Geological Survey, provided the State nonfuel mineral industry information.

**Clay and Shale.**—Much of the clay and shale produced in Indiana is used in the brick industry, with all Indiana brick companies mining their own clay instead of purchasing it, and also mostly hiring contractors to do the mining, as described below. Shale was also produced for the cement industry, and some Indiana shales are also used as oil shale.

- Jarvis Coal Company provided clay for the Brampton Brick Ltd. plant near Farmersburg, Sullivan County.
- Carr & Thomas Construction, Inc. provided clay for Brickcraft, LLC, in Clay County.
- Dennis Trucking Co., Inc. provided clay for the Boral Bricks, Inc. plant at Terre Haute, Vigo County; half of the material was from a nearby coal-spoil pile and the remainder was from virgin land near the plant.
- Colonial Brick Corp., in Vermillion County, and General Shale Brick, Inc., in Morgan County, mined their own clay.
- Knies Construction, Inc., in Dubois County, provided clay for Unimin Corp., which produces cat litter and filler material, but the mine was reported closed in 2012.
- Hydraulic Press Brick Company, Haydite Division, in Morgan County, mined its own clay and produced expanded shale for use as a lightweight aggregate.
- Buzzi Unicem USA in Putnam County, Essroc Cement Corp., in Cass and Clark Counties, and Rogers Group, Inc., in Lawrence County, produced shale for the cement industry.
- Yellow Banks Clay Company, in Warrick County, mined a small amount of clay for hand-thrown pottery.

**Dimension Stone.**—In 2012 and 2013, production continued at reduced levels at dimension limestone quarries, compared to the early years of the decade, primarily because of weak construction markets, as follows:

- Indiana Quarries & Carvers, LLC acquired the American Limestone, LLC quarry at Stinesville in Monroe County in 2012, which had been listed as abandoned in 2011 (U.S. Mine Safety and Health Administration, 2015).
- Blackwell Quarries, LLC, in Lawrence County, was abandoned in 2012 (U.S. Mine Safety and Health Administration, 2015).
- Indiana Limestone Company's quarry, in Lawrence County, resumed production in 2012 following a contract strike that halted work by millworkers, mechanics, and stonecutters in November 2011. In 2013 production was lower following labor force reductions to reduce company debt.

**Gypsum.**—In 2012 and 2013, two companies, the National Gypsum Company and U.S. Gypsum Company, continued to produce gypsum from underground mines near Shoals in Martin County. National Gypsum, which had been shut down since September 2011 because of a contract dispute with the union over proposed changes to the company's pension plan, restarted its mine and plant in March 2012.

**Sand and Gravel.**—Several openings, closings, and ownership changes took place in the Indiana construction sand and gravel industry in 2012 and 2013 (U.S. Mine Safety and Health Administration, 2015), as follows:

- May 2012—S & G Excavating, Inc. opened the Kerns' Pit in Vigo County.

- June 2012—Longhorn Sand and Gravel opened in St. Joseph County.
- July 2012—Irving Materials, Inc. (IMI) acquired the Rock Industries, Inc. Plymouth Pit in Marshall County.
- July 2012—The IMI Pendleton sand and gravel pit, in Madison County, was listed as abandoned in July.
- April 2013—L&L Bulk Transport opened its Stone Yard pit in Marion County and operated intermittently.
- April 2013—Hixson Sand & Gravel, Inc., in Noble County, closed.
- April 2013—VCNA Prairie Aggregates of Indiana, Inc. Shelbyville Pit, in Shelby County, closed.
- July 2013—Heritage Aggregates, LLC's U.S. Aggregates Battleground Sand and Gravel Pit, in Tippecanoe County, closed.
- August 2013—Paul H. Rohe Co., Inc.'s Rohe Materials, in Franklin County, closed.
- August 2013—Speedway Sand and Gravel Columbia City Plant #4, in Whitley County, closed.
- November 2013—McIntire Concrete's Sand & Gravel Daleville Mine, in Delaware County, was acquired by Delaware County Materials, LLC, in November.

**Stone, Crushed.**—Several openings, closings, and ownership changes took place in the Indiana crushed stone industry in 2012 and 2013 (U.S. Mine Safety and Health Administration, 2015), as follows:

- January 2012—James Ballenger Bulldozing changed the company name for its quarry in Franklin County to Ballenger Stone.
- March 2012—The North American Limestone Company (NALC) took over the mining operation at the 243 Quarry, which had been mined by S & G Excavating, Inc. NALC operates a fine-grinding plant at Cloverdale in Putnam County and uses the stone from the 243 Quarry. The plant became certified as a Safe Feed/Safe Food Facility by the American Feed Industry Association in December 2012 (Barbaccia, 2013).
- July 2012—Irving Materials, Inc. acquired the Rock Industries, Inc. Peru Stone Quarry in Miami County.
- August 2012—West Plains Mining, LLC opened an underground crushed stone mine at its Kentner Creek Mine in Wabash County.
- November 2012—The Heritage Group acquired the five Meshberger Brothers Stone Corp. quarries—Pleasant Mills and Linn Grove in Adams County, Portland in Jay County, and Fairview and Ridgeville in Randolph County—and was to operate them as U.S. Aggregates quarries.
- December 2012—Rock Creek Materials, LLC, in Wells County, became Rock Creek Stone Quarry.
- March 2013—VCNA Prairie, Inc. opened Lowell Yard 106 in Lake County.
- October 2013—BTI Crushed Stone Sales, LLC Plant #2, in Lawrence County, changed its name to Blackwell Limestone Products LLC.

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TABLE 1  
NONFUEL MINERAL PRODUCTION IN INDIANA<sup>1,2</sup>

(Thousand metric tons and thousand dollars)

Mineral	2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value
Cement, portland	2,290	179,000 <sup>c</sup>	2,390	193,000 <sup>c</sup>	2,280	191,000 <sup>c</sup>
Clays, common	332	6,620	369	6,240	294	6,490
Gemstones, natural	NA	4	NA	4	NA	4
Sand and gravel, construction	18,800	111,000	18,500	107,000	17,000	128,000
Stone:						
Crushed	41,200 <sup>f</sup>	292,000 <sup>f</sup>	42,700	304,000	41,000	304,000
Dimension	164	29,200	186	32,000	150	26,200
Combined values of cement (masonry), clays (ball), gypsum (crude), lime, peat, sand and gravel (industrial)		136,000	XX	163,000	XX	158,000
Total	XX	754,000 <sup>f</sup>	XX	806,000	XX	813,000

<sup>c</sup>Estimated. <sup>f</sup>Revised. NA Not available. XX Not applicable.

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

<sup>2</sup>Data are rounded to three significant digits; may not add to totals shown.

TABLE 2  
INDIANA: CRUSHED STONE SOLD OR USED IN THE UNITED STATES, BY TYPE<sup>1</sup>

Type	2012				2013			
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value
Limestone <sup>2</sup>	87	42,600	\$303,000	\$7.12	86	41,000	\$303,000	\$7.41
Dolomite	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Miscellaneous stone	1	129	855	6.62	1	36	252	7.01
Total or average	XX	42,700	304,000	7.12	XX	41,000	304,000	7.41

XX Not applicable.

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

<sup>2</sup>Includes limestone-dolomite reported with no distinction between the two kinds of stone.

<sup>3</sup>Withheld to avoid disclosing company proprietary data; included with “Limestone.”

TABLE 3  
INDIANA: CRUSHED STONE SOLD OR USED BY PRODUCERS BY USE<sup>1</sup>

Use	2012			2013		
	Quantity (thousand metric tons)	Value (thousands)	Unit value	Quantity (thousand metric tons)	Value (thousands)	Unit value
Construction:						
Coarse aggregate (+1½ inch):						
Macadam	W	W	W	W	W	W
Riprap and jetty stone	268	\$2,200	\$8.21	395	\$4,190	\$10.60
Filter stone	43	341	7.94	67	685	10.17
Unspecified coarse aggregate	1,620	9,770	6.02	1,090	6,000	5.53
Coarse aggregate, graded:						
Concrete aggregate, coarse	1,070	10,000	9.32	1,640	15,200	9.28
Bituminous aggregate, coarse	675	6,280	9.30	1,820	18,900	10.39
Bituminous surface-treatment aggregate	1,250	11,100	8.95	433	4,570	10.54
Railroad ballast	282	2,330	8.27	296	2,540	8.60
Unspecified graded coarse aggregate	4,300	26,300	6.11	2,890	16,100	5.58
Fine aggregate (-¾ inch):						
Stone sand, concrete	62	524	8.45	--	--	--
Stone sand, bituminous mix or seal	216	1,270	5.88	409	4,000	9.77
Screening, undesignated	73	265	3.63	187	785	4.20
Unspecified fine aggregate	1,220	7,690	6.32	978	6,120	6.26
Coarse and fine aggregates:						
Graded road base or subbase	1,920	13,000	6.79	4,140	29,500	7.11
Unpaved road surface	286	2,770	9.68	261	2,120	8.11
Terrazzo and exposed aggregate	W	W	W	W	W	W
Crusher run or fill or waste	233	895	3.84	106	719	6.81
Unspecified coarse and fine aggregates	3,810	27,600	7.24	W	W	W
Unspecified and other construction materials	463	3,360	7.26	7	96	14.08
Agricultural:						
Agricultural Limestone	1,230	8,160	6.62	953	6,500	6.82
Poultry grit and mineral food	397	2,430	6.11	W	W	W
Unspecified and other agricultural uses	W	W	W	W	W	W
Chemical and metallurgical:						
Cement manufacture	3,280	14,700	4.49	2,860	13,300	4.66
Lime manufacture	--	--	--	W	W	W
Flux stone	3	19	6.40	W	W	W
Glass manufacture	--	--	--	193	4,240	22.05
Sulfur oxide removal	W	W	W	3,160	17,600	5.59
Special:						
Whiting or whiting substitute	W	W	W	W	W	W
Other fillers or extenders	W	W	W	977	8,890	9.09
Other miscellaneous uses and specified uses not listed	13	142	10.90	8	60	7.27
Unspecified: <sup>2</sup>						
Reported	11,600	99,100	8.54	12,400	101,000	8.12
Estimated	5,380	37,000	6.87	3,600	25,800	7.18
Total or average	42,700	304,000	7.12	41,000	304,000	7.41

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

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

<sup>2</sup>Reported and estimated production without a breakdown by end use.

TABLE 4  
INDIANA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2012, BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1½ inch) <sup>2</sup>	98	923	64	628	W	W
Coarse aggregate, graded <sup>3</sup>	1,640	14,600	W	W	5,120	33,500
Fine aggregate (-¾ inch) <sup>4</sup>	215	1,370	W	W	1,280	7,910
Coarse and fine aggregates <sup>5</sup>	1,460	10,200	1,120	8,250	3,680	26,100
Other construction materials	327	2,520	W	W	W	W
Agricultural <sup>6</sup>	914	6,080	118	896	603	3,650
Chemical and metallurgical <sup>7</sup>	W	W	W	W	4,620	20,800
Special <sup>8</sup>	W	W	W	W	W	W
Other miscellaneous uses and specified uses not listed <sup>9</sup>	--	--	--	--	--	--
Unspecified: <sup>10</sup>						
Reported	W	W	5,230	53,500	3,550	24,100
Estimated	2,680	19,500	2,030	12,400	673	5,080
Total	10,400	78,100	10,800	93,200	21,500	133,000

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

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

<sup>2</sup>Includes macadam, riprap and jetty stone, filter stone, and unspecified coarse aggregate.

<sup>3</sup>Includes concrete aggregate (coarse), bituminous aggregate (coarse), bituminous surface-treatment aggregate, railroad ballast, and unspecified graded coarse aggregate.

<sup>4</sup>Includes stone sand (concrete), stone sand (bituminous mix or seal), screening (undesignated), and unspecified fine aggregate.

<sup>5</sup>Includes graded road base or subbase, unpaved road surface, terrazzo and exposed aggregate, crusher run, roofing granules, and unspecified coarse and fine aggregate.

<sup>6</sup>Includes agricultural limestone, poultry grit and mineral food, and other agricultural uses.

<sup>7</sup>Includes cement manufacture, flux stone, and sulfur oxide removal.

<sup>8</sup>Includes whitening or whitening substance and other fillers or extenders.

<sup>9</sup>Includes drain fields, waste material, lightweight aggregate (slate), pipe bedding, refractory stone (including ganister), and other miscellaneous uses.

<sup>10</sup>Reported and estimated production without a breakdown by end use.

TABLE 5  
INDIANA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2013, BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1½ inch) <sup>2</sup>	W	W	216	2,290	W	W
Coarse aggregate, graded <sup>3</sup>	1,910	18,300	1,660	16,800	3,510	22,300
Fine aggregate (-¾ inch) <sup>4</sup>	234	1,710	248	2,510	1,090	6,690
Coarse and fine aggregates <sup>5</sup>	2,090	15,000	2,150	15,000	1,830	13,500
Other construction materials	--	--	W	W	W	W
Agricultural <sup>6</sup>	803	5,290	246	1,670	350	2,270
Chemical and metallurgical <sup>7</sup>	W	W	W	W	4,730	21,500
Special <sup>8</sup>	W	W	W	W	W	W
Unspecified: <sup>9</sup>						
Reported	3,220	24,400	3,960	39,600	5,240	36,800
Estimated	1,620	12,000	751	5,270	1,230	8,610
Total	10,700	84,300	10,900	98,700	19,400	121,000

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

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

<sup>2</sup>Includes macadam, riprap and jetty stone, filter stone, and unspecified coarse aggregate.

<sup>3</sup>Includes concrete aggregate (coarse), bituminous aggregate (coarse), bituminous surface-treatment aggregate, railroad ballast, and unspecified graded coarse aggregate.

<sup>4</sup>Includes stone sand (concrete), stone sand (bituminous mix or seal), screening (undesignated), and unspecified fine aggregate.

<sup>5</sup>Includes graded road base or subbase, unpaved road surface, terrazzo and exposed aggregate, crusher run, roofing granules, and unspecified coarse and fine aggregate.

<sup>6</sup>Includes agricultural limestone, poultry grit and mineral food, and other agricultural uses.

<sup>7</sup>Includes cement manufacture, flux stone, and sulfur oxide removal.

<sup>8</sup>Includes whitening or whitening substance and other fillers or extenders.

<sup>9</sup>Reported and estimated production without a breakdown by end use.

TABLE 6  
INDIANA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2012,  
BY MAJOR USE CATEGORY<sup>1</sup>

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	4,690	\$23,500	\$5.01
Plaster and gunitite sands	10	122	12.20
Concrete products (blocks, bricks, pipe, decorative, and so forth)	26	253	9.73
Asphaltic concrete aggregates and other bituminous mixtures	1,010	6,780	6.71
Road base and coverings	542	3,930	7.25
Fill	2,250	11,800	5.24
Snow and ice control	291	1,100	3.78
Other miscellaneous uses <sup>2</sup>	166	1,420	8.55
Unspecified: <sup>3</sup>			
Reported	2,810	20,600	7.33
Estimated	6,680	37,900	5.67
Total or average	18,500	107,000	5.78

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

<sup>2</sup>Includes filtration and golf course.

<sup>3</sup>Reported and estimated production without a breakdown by end use.

TABLE 7  
INDIANA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2013,  
BY MAJOR USE CATEGORY<sup>1</sup>

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand) <sup>2</sup>	3,790	\$25,100	\$6.62
Concrete products (blocks, bricks, pipe, decorative, and so forth)	56	505	9.02
Asphaltic concrete aggregates and other bituminous mixtures	1,200	14,100	11.75
Road base and coverings <sup>3</sup>	521	4,880	9.37
Fill	1,430	9,000	6.29
Snow and ice control	367	2,960	8.07
Other miscellaneous uses <sup>4</sup>	72	559	7.76
Unspecified: <sup>5</sup>			
Reported	2,440	17,800	7.30
Estimated	7,170	52,600	7.34
Total or average	17,000	128,000	7.53

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

<sup>2</sup>Includes plaster and gunitite sands.

<sup>3</sup>Includes road and other stabilization (cement).

<sup>4</sup>Includes filtration.

<sup>5</sup>Reported and estimated production without a breakdown by end use.



TABLE 8  
INDIANA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2012, BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregate (including concrete sand)	W	W	W	W	W	W
Concrete products (blocks, bricks, pipe, decorative, and so forth) <sup>2</sup>	W	W	W	W	W	W
Asphaltic concrete aggregates and other bituminous mixtures	W	W	W	W	W	W
Road base and coverings	227	1,920	266	1,660	48	348
Fill	727	3,090	720	4,130	806	4,560
Other miscellaneous uses <sup>3</sup>	130	849	316	1,620	10	56
Unspecified: <sup>4</sup>						
Reported	494	3,440	2,310	17,100	--	--
Estimated	2,510	14,200	2,990	17,000	1,180	6,710
Total	5,280	30,600	8,320	53,700	4,880	23,000

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

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

<sup>2</sup>Includes plaster and gunite sands.

<sup>3</sup>Includes filtration, golf course, and snow and ice control.

<sup>4</sup>Reported and estimated production without a breakdown by end use.

TABLE 9  
INDIANA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2013, BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3 and unspecified district	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregate (including concrete sand)	W	W	W	W	W	W
Concrete products (blocks, bricks, pipe, decorative, and so forth) <sup>2</sup>	W	W	W	W	W	W
Asphaltic concrete aggregates and other bituminous mixtures	W	W	W	W	W	W
Road base and coverings <sup>3</sup>	50	447	389	3,770	82	671
Fill	375	1,900	821	6,090	231	998
Snow and ice control	41	187	269	2,450	56	329
Other miscellaneous uses <sup>4</sup>	84	518	25	193	4	35
Unspecified: <sup>5</sup>						
Reported	250	1,800	1,950	14,800	15	83
Estimated	3,120	23,700	3,110	22,100	234	1,170
Total	4,550	32,500	8,440	70,300	4,050	24,700

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

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

<sup>2</sup>Includes plaster and gunite sands.

<sup>3</sup>Includes road and other stabilization (cement).

<sup>4</sup>Includes filtration.

<sup>5</sup>Reported and estimated production without a breakdown by end use.