



# 2008 Minerals Yearbook

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IOWA

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# THE MINERAL INDUSTRY OF IOWA

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

In 2008, Iowa's nonfuel raw mineral production<sup>1</sup> was valued at \$680 million, based upon annual U.S. Geological Survey data. This was a \$13 million, or 1.9%, decrease in the State's total nonfuel mineral production value from that of 2007, which followed a \$12 million, or 1.7%, decrease in 2007 from that of 2006. Though the State's total production value decreased, the State rose to 31st in rank from 32nd in 2007 among the 50 States in total nonfuel mineral production value and accounted for less than 1% of the U.S. total. With a population of nearly 3 million, the per capita production value of the State's nonfuel mineral industry was \$227, making the State 16th in the Nation on a per capita basis.

<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 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>.

Crushed stone, portland cement, construction sand and gravel, lime, and crude gypsum (in descending order of value) were Iowa's leading nonfuel mineral commodities in 2008, accounting for more than 99% of the State's total nonfuel mineral production value. Significant increases took place in the production values of crushed stone (up 6%), lime (up 11%), and masonry cement (up 13%), with the production value of crushed stone up by more than \$18 million. The total increase in production value, however, was offset by significant decreases in the production values of other mineral commodities, including portland cement, construction sand and gravel, crude gypsum, and common clays (table 1).

Since 2005, Iowa has continued to be second among the 18 crude gypsum-producing States. The State continued to rank among the top 20 producing States for crushed stone, portland cement, construction sand and gravel, and lime. No metals were mined in Iowa; the State's metal production, including molybdenum and raw steel, came from the processing of materials acquired from other domestic and foreign sources.

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

(Thousand metric tons and thousand dollars)

Mineral	2006		2007		2008	
	Quantity	Value	Quantity	Value	Quantity	Value
Clays, common	356	2,750	331	2,630	269	1,140
Gemstones, natural	NA	3	NA	3	NA	3
Peat	W	60	W	W	W	W
Sand and gravel, construction	18,400	91,300	17,100	94,000	15,600	88,400
Stone, crushed	37,500 <sup>r</sup>	298,000 <sup>r</sup>	35,500 <sup>r</sup>	286,000 <sup>r</sup>	37,800	304,000
Combined values of cement, gypsum (crude), lime, sand and gravel (industrial), and values indicated by symbol W	XX	313,000	XX	311,000	XX	286,000
Total	XX	705,000 <sup>r</sup>	XX	693,000 <sup>r</sup>	XX	680,000

<sup>r</sup>Revised. NA Not available. W Withheld to avoid disclosing company proprietary data. Withheld values included in "Combined values" data. 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 no more than three significant digits; may not add to totals shown.

TABLE 2  
IOWA: CRUSHED STONE SOLD OR USED, BY TYPE<sup>1</sup>

Type	2007			2008		
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Number of quarries	Quantity (thousand metric tons)	Value (thousands)
Limestone <sup>2</sup>	199 <sup>r</sup>	35,500 <sup>r</sup>	\$286,000 <sup>r</sup>	201	37,800	\$304,000
Miscellaneous stone	--	--	--	1	39	202
Total	XX	35,500 <sup>r</sup>	\$286,000 <sup>r</sup>	XX	37,800	\$304,000

<sup>r</sup>Revised. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits.

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

TABLE 3  
IOWA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2008, BY USE<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
<b>Construction:</b>		
<b>Coarse aggregate (+1½ inch):</b>		
Macadam	688	4,690
Riprap and jetty stone	319	4,230
Filter stone	289	3,770
Other coarse aggregate	238	2,700
<b>Coarse aggregate, graded:</b>		
Concrete aggregate, coarse	2,110	20,600
Bituminous aggregate, coarse	541	4,680
Bituminous surface-treatment aggregate	190	1,560
Railroad ballast	38	345
Other graded coarse aggregate	285	2,680
<b>Fine aggregate (-¾ inch):</b>		
Stone sand, concrete	W	W
Stone sand, bituminous mix or seal	W	W
Screening, undesignated	300	1,560
Other fine aggregate	8	59
<b>Coarse and fine aggregates:</b>		
Graded road base or subbase	4,700	42,200
Unpaved road surfacing	W	W
Crusher run or fill or waste	W	W
Roofing granules	W	W
Other coarse and fine aggregates	426	3,780
Other construction materials	280	3,240
<b>Agricultural:</b>		
Limestone	W	W
Poultry grit and mineral food	W	W
Other agricultural uses	W	W
<b>Chemical and metallurgical:</b>		
Cement manufacture	W	W
Lime manufacture	W	W
Flux stone	W	W
Glass manufacture	W	W
Other miscellaneous uses and specified uses not listed	59	228
<b>Unspecified:<sup>2</sup></b>		
Reported	10,100	86,300
Estimated	7,400	59,000
<b>Total</b>	<b>37,800</b>	<b>304,000</b>

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

TABLE 4  
IOWA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2008, BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	Districts 1 and 2 <sup>2</sup>		Districts 3 and 4 <sup>2</sup>		Districts 5 and 6 <sup>2</sup>		Unspecified districts	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Construction:</b>								
Coarse aggregate (+1½ inch) <sup>3</sup>	705	5,450	336	3,830	487	6,030	5	70
Coarse aggregate, graded <sup>4</sup>	1,310	11,500	1,270	12,000	551	5,990	32	300
Fine aggregate (-¾ inch) <sup>5</sup>	W	W	W	W	194	2,040	62	323
Coarse and fine aggregate <sup>6</sup>	2,990	19,900	2,070	16,800	4,060	37,200	367	3,250
Other construction materials	216	1,950	64	1,290	--	--	--	--
Agricultural <sup>7</sup>	165	1,070	717	7,290	343	2,600	30	211
Chemical and metallurgical <sup>8</sup>	W	W	W	W	--	--	--	--
Other miscellaneous uses	--	--	59	228	--	--	--	--
<b>Unspecified:<sup>9</sup></b>								
Reported	3,460	29,600	4,130	35,400	2,510	21,300	--	--
Estimated	2,300	19,000	2,400	19,000	2,700	21,000	--	--
<b>Total</b>	<b>13,200</b>	<b>95,000</b>	<b>13,400</b>	<b>109,000</b>	<b>10,800</b>	<b>96,400</b>	<b>496</b>	<b>4,150</b>

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>Specified districts are combined to avoid disclosing company proprietary data.

<sup>3</sup>Includes filter stone, macadam, riprap and jetty stone, and other coarse aggregate.

<sup>4</sup>Includes concrete aggregate (coarse), bituminous aggregate (coarse), bituminous surface-treatment aggregate, railroad ballast, and other graded coarse aggregate.

<sup>5</sup>Includes screening (undesigned), stone sand (bituminous mix or seal), stone sand (concrete), and other fine aggregate.

<sup>6</sup>Includes crusher run or fill or waste, graded road base or subbase, roofing granules, unpaved road surfacing, and other coarse and fine aggregates.

<sup>7</sup>Includes agricultural limestone, poultry grit and mineral food, and other agricultural uses.

<sup>8</sup>Includes cement, lime, and glass manufacture, and flux stone.

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

TABLE 5  
IOWA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2008,  
BY MAJOR USE CATEGORY<sup>1</sup>

Use	Quantity	Value (thousands)	Unit value
	(thousand metric tons)		
Concrete aggregate (including concrete sand)	1,910	\$12,000	\$6.29
Concrete products (blocks, bricks, pipe, decorative, etc.) <sup>2</sup>	70	444	6.34
Asphaltic concrete aggregates and other bituminous mixtures	141	586	4.16
Road base and coverings <sup>3</sup>	1,920	7,270	3.80
Fill	631	2,390	3.79
Snow and ice control	75	760	10.13
Other miscellaneous uses <sup>4</sup>	69	573	8.30
<b>Unspecified:<sup>5</sup></b>			
Reported	8,130	49,000	6.03
Estimated	2,700	15,000	5.68
<b>Total or average</b>	<b>15,600</b>	<b>88,400</b>	<b>5.65</b>

<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 gunite sands.

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

<sup>4</sup>Includes railroad ballast.

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

TABLE 6  
IOWA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2008, BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		Districts 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregate and concrete products <sup>2</sup>	433	3,010	591	3,670	126	862
Asphaltic concrete aggregates and and road base materials <sup>3</sup>	767	2,930	689	2,110	301	1,370
Fill	236	739	77	307	137	708
Other miscellaneous uses <sup>4</sup>	15	80	68	527	35	245
Unspecified: <sup>5</sup>						
Reported	2,240	12,400	132	678	5,210	32,200
Estimated	462	2,600	515	2,900	40	230
Total	4,160	21,800	2,070	10,200	5,850	35,600
Use	District 4		District 5		District 6	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregate and concrete products <sup>2</sup>	427	3,040	--	--	404	1,900
Asphaltic concrete aggregates and and road base materials <sup>3</sup>	W	W	--	--	W	W
Fill	W	W	--	--	W	W
Other miscellaneous uses <sup>4</sup>	94	730	--	--	311	1,250
Unspecified: <sup>5</sup>						
Reported	161	1,260	207	1,180	174	1,300
Estimated	553	3,100	60	338	1,100	6,000
Total	1,240	8,170	267	1,520	1,950	10,500
Use	Unspecified districts					
	Quantity	Value				
Concrete aggregate and concrete products <sup>2</sup>	--	--				
Asphaltic concrete aggregates and and road base materials <sup>3</sup>	101	591				
Fill	--	--				
Other miscellaneous uses <sup>4</sup>	--	--				
Unspecified: <sup>5</sup>						
Reported	--	--				
Estimated	--	--				
Total	101	591				

W Withheld to avoid disclosing company proprietary data; included in "Other miscellaneous uses." -- 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 road and other stabilization (lime).

<sup>4</sup>Includes railroad ballast and snow and ice control.

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