



2007 Minerals Yearbook

IOWA [ADVANCE RELEASE]

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 2007, Iowa's nonfuel raw mineral production¹ was valued at \$688 million, based upon annual U.S. Geological Survey data. This was a \$9 million, or 1.3%, decrease in the State's total nonfuel mineral production value from that of 2006, which followed a 5.8%, or \$38 million, increase in 2006 from that of 2005. The State was 32d in rank (31st in 2006) among the 50 States in total nonfuel mineral production value and accounted for 1% of the U.S. total. Yet, per capita, the State ranked 16th in the Nation in its minerals industry's value of nonfuel mineral production; with a population of nearly 3 million, the value of production was \$230 per person.

Crushed stone, cement (portland and masonry), construction sand and gravel, and crude gypsum (in descending order of

value) were Iowa's leading nonfuel mineral commodities in 2007, accounting for more than 97% of the State's total nonfuel mineral production value. Increases took place in the production values of construction sand and gravel, lime, and masonry cement, that of construction sand and gravel being the largest, up by \$2.7 million. But these were more than offset by decreases that took place in the production values of crushed stone, down by \$10 million, and smaller decreases that took place in crude gypsum, industrial sand and gravel, common clays, and peat (descending order of decrease), leading to the State's overall decrease for the year (table 1).

In 2007, Iowa continued to be second among producing States in the quantities of crude gypsum produced and a significant producer of crushed stone, portland cement (13th in State ranking), construction sand and gravel, and common clays (descending order of value). Production decreased for all of the State's nonfuel mineral commodities, except for those of industrial sand and gravel and masonry cement, up by nearly 30% and more than 40%, respectively. 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.

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 2007 USGS mineral production data published in this chapter are those available as of June 2009. 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>.

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

(Thousand metric tons and thousand dollars)

Mineral	2005		2006		2007	
	Quantity	Value	Quantity	Value	Quantity	Value
Clays, common	630	4,740	356	2,750	331	2,630
Gemstones	NA	2	NA	3	NA	3
Peat	W	W	W	60	W	W
Sand and gravel, construction	19,900	93,100	18,400 ^r	91,300 ^r	17,100	94,000
Stone, crushed	36,400	271,000	36,400 ^r	290,000 ^r	33,700	280,000
Combined values of cement, gypsum (crude), lime, sand and gravel (industrial), and values indicated by symbol W	XX	290,000 ^r	XX	313,000 ^r	XX	311,000
Total	XX	659,000 ^r	XX	697,000 ^r	XX	688,000

^rRevised. NA Not available. W Withheld to avoid disclosing company proprietary data. Withheld values included in "Combined value" 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
IOWA: CRUSHED STONE SOLD OR USED, BY TYPE¹

Type	2006			2007		
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Number of quarries	Quantity (thousand metric tons)	Value (thousands)
Limestone ²	206 ^r	36,400 ^r	\$290,000 ^r	191	33,700	\$280,000

^rRevised.

¹Data are rounded to no more than three significant digits.

²Includes limestone-dolomite reported with no distinction between the two.

TABLE 3
IOWA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2007, BY USE¹

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch):		
Macadam	252	2,110
Riprap and jetty stone	238	2,940
Filter stone	255	2,690
Other coarse aggregate	175	1,640
Coarse aggregate, graded:		
Concrete aggregate, coarse	1,430	14,600
Bituminous aggregate, coarse	290	3,000
Bituminous surface-treatment aggregate	W	W
Railroad ballast	W	W
Other graded coarse aggregate	310	2,900
Fine aggregate (-¾ inch):		
Stone sand, concrete	W	W
Stone sand, bituminous mix or seal	W	W
Screening, undesignated	371	1,470
Other fine aggregate	2	14
Coarse and fine aggregates:		
Graded road base or subbase	3,280	29,700
Unpaved road surfacing	2,980	22,200
Crusher run or fill or waste	W	W
Roofing granules	W	W
Other coarse and fine aggregates	492	3,200
Other construction materials	277	3,070
Agricultural:		
Limestone	620	3,670
Poultry grit and mineral food	W	W
Other agricultural uses	285	4,540
Chemical and metallurgical:		
Cement manufacture	W	W
Lime manufacture	W	W
Flux stone	W	W
Glass manufacture	W	W
Special, asphalt fillers or extenders	W	W
Other miscellaneous uses and specified uses not listed	49	180
Unspecified: ²		
Reported	9,240	77,600
Estimated	9,300	77,000
Total	33,700	280,000

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
IOWA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2007, BY USE AND DISTRICT¹

(Thousand metric tons and thousand dollars)

Use	Districts 1 and 2 ²		Districts 3 and 4 ²		Districts 5 and 6 ²		Unspecified districts	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Construction:								
Coarse aggregate (+1½ inch) ³	237	2,120	274	2,810	405	4,390	4	44
Coarse aggregate, graded ⁴	940	8,680	783	7,900	489	5,390	23	212
Fine aggregate (-¾ inch) ⁵	264	1,210	53	296	162	1,240	55	212
Coarse and fine aggregate ⁶	1,930	12,500	1,400	11,400	3,390	31,400	321	1,950
Other construction materials	215	1,910	62	1,160	--	--	--	--
Agricultural ⁷	W	W	W	W	274	1,880	19	95
Chemical and metallurgical ⁸	W	W	W	W	--	--	--	--
Special ⁹	--	--	W	W	--	--	--	--
Other miscellaneous uses	--	--	49	180	--	--	--	--
Unspecified: ¹⁰								
Reported	3,280	27,500	4,260	35,700	1,610	13,500	98	818
Estimated	2,100	17,000	3,600	30,000	3,600	30,000	--	--
Total	11,100	86,100	12,100	103,000	9,960	88,000	520	3,330

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.

²Districts 1 and 2, 3 and 4, and 5 and 6 are combined to avoid disclosing company proprietary data.

³Includes filter stone, macadam, riprap and jetty stone, and other coarse aggregate.

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

⁵Includes screening (undesignated), stone sand (bituminous mix or seal), stone sand (concrete), and other fine aggregate.

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

⁷Includes agricultural limestone, poultry grit and mineral food, and other agricultural uses.

⁸Includes cement, lime, glass manufacture, and flux stone.

⁹Includes asphalt fillers or extenders.

¹⁰Reported and estimated production without a breakdown by end use.

TABLE 5
IOWA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2007,
BY MAJOR USE CATEGORY¹

Use	Quantity	Value	Unit
	(thousand metric tons)		
Concrete aggregate and concrete products	2,460	\$13,700	\$5.58
Plaster and gunit sands	77	549	7.11
Asphaltic concrete aggregates and other bituminous mixtures	138	663	4.81
Road base and coverings ²	1,430	6,390	4.47
Fill	834	2,760	3.31
Snow and ice control	97	404	4.16
Other miscellaneous uses ³	54	609	11.30
Unspecified: ⁴			
Reported	8,810	53,400	6.06
Estimated	3,170	15,500	4.89
Total or average	17,100	94,000	5.50

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

²Includes road and other stabilization (lime).

³Includes railroad ballast.

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

TABLE 6
IOWA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2007, 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	928	4,370	540	3,200	193	1,170
Asphaltic concrete aggregates and road base materials ³	803	4,030	443	1,360	172	746
Fill	449	1,440	52	177	76	298
Other miscellaneous uses ⁴	35	141	53	537	36	176
Unspecified: ⁵						
Reported	1,300	7,400	10	57	6,800	41,300
Estimated	830	3,800	552	2,740	--	--
Total	4,340	21,200	1,650	8,070	7,280	43,700
Use	District 4		District 5		District 6	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregate and concrete products ²	455	3,470	--	--	424	2,080
Asphaltic concrete aggregates and road base materials ³	W	W	23	82	W	W
Fill	175	572	--	--	83	276
Other miscellaneous uses ⁴	27	151	--	--	37	321
Unspecified: ⁵						
Reported	176	1,300	283	1,560	246	1,800
Estimated	575	2,850	111	551	1,100	5,530
Total	1,410	8,340	418	2,190	1,890	10,000
Use	Unspecified districts					
	Quantity	Value				
Concrete aggregate and concrete products ²	--	--				
Asphaltic concrete aggregates and road base materials ³	89	516				
Fill	--	--				
Other miscellaneous uses ⁴	--	--				
Unspecified: ⁵						
Reported	--	--				
Estimated	--	--				
Total	89	516				

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.

³Includes road and other stabilization (lime).

⁴Includes railroad ballast and snow and ice control.

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