



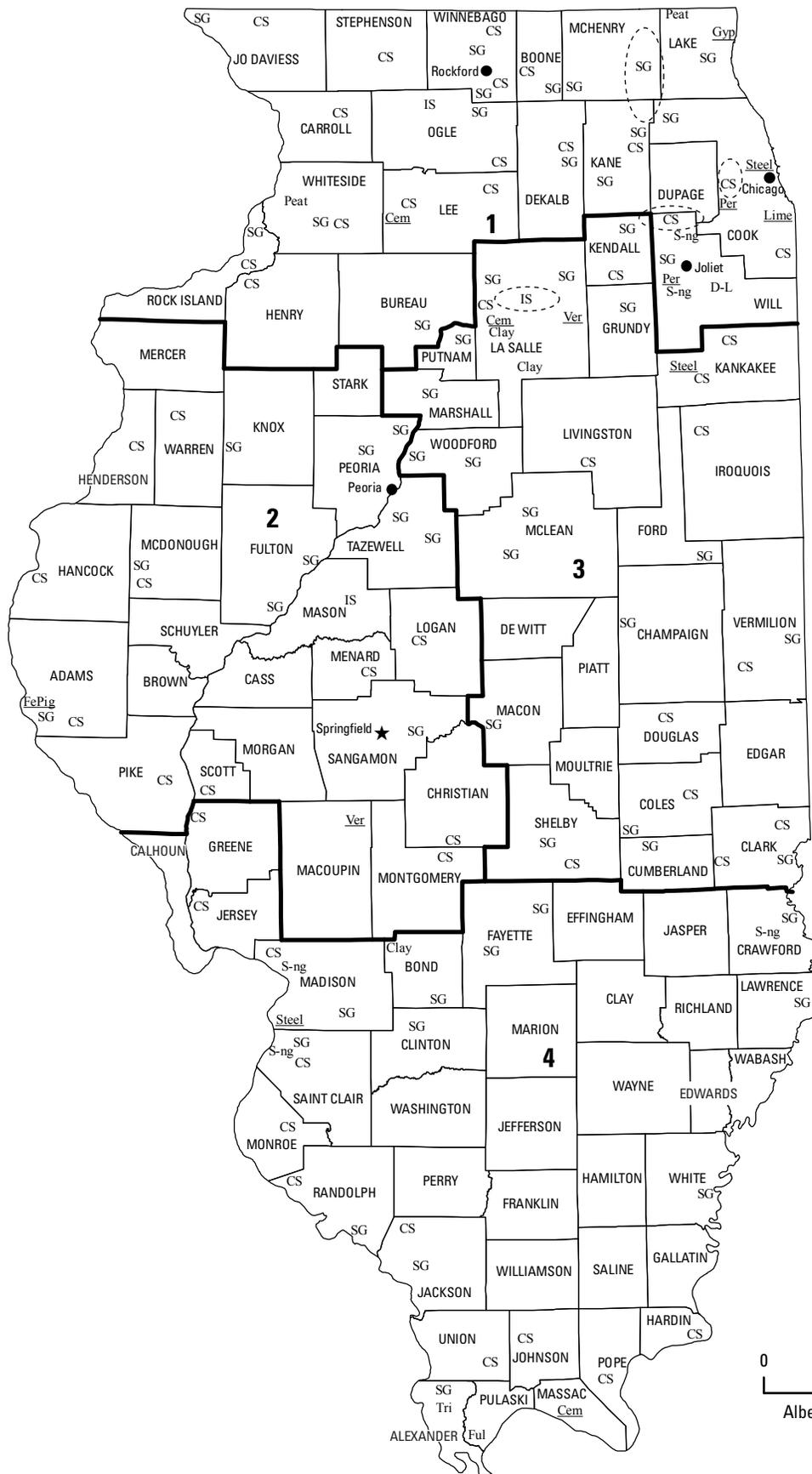
# 2008 Minerals Yearbook

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## ILLINOIS

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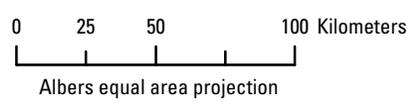


**LEGEND**

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

**MINERAL SYMBOLS**  
(Principal producing areas)

- Cem Cement plant
- Clay Common clay
- CS Crushed stone
- D-L Dimension limestone
- FePig Iron oxide pigments plant
- Ful Fuller's earth
- Gyp Gypsum plant
- IS Industrial sand
- Lime Lime plant
- Peat Peat
- Per Perlite
- SG Construction sand and gravel
- S-ng Sulfur (natural gas)
- Steel Steel plant
- Tri Tripoli
- Ver Vermiculite plant
- Concentration of mineral operations



Source: Illinois State Geological Survey/ U.S. Geological Survey (2008).

# THE MINERAL INDUSTRY OF ILLINOIS

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

In 2008, Illinois' nonfuel raw mineral production<sup>1</sup> was valued at \$1.2 billion, based upon annual U.S. Geological Survey (USGS) data. This was a \$50 million, or 4%, decrease from the State's total nonfuel mineral value in 2007, which remained virtually unchanged from the 2006 total of \$1.25 billion. The State ranked 20th among the 50 States in the total nonfuel mineral production value and accounted for almost 1.7% of the U.S. total.

Industrial minerals continued to account for all of Illinois' nonfuel mineral production in 2008. In 2008, crushed stone, by production value, remained Illinois' leading nonfuel mineral commodity, accounting for more than 50% of the State's total nonfuel mineral production value, followed, in descending order of value, by portland cement, with almost 22%; construction sand and gravel, with 13.7%; and industrial sand and gravel, 9% (table 1).

<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>.

In 2008, decreases in the production values of portland cement, down by \$46 million, and crushed stone and construction sand and gravel, each down by \$10 million, led to the State's decrease in total nonfuel mineral production value for the year. The only mineral commodity to show a significant increase for the year was industrial sand and gravel, up by \$21 million. The decreases in value, in most cases, were the result of decreases in the production of each mineral commodity, especially Portland cement, down 460,000 metric tons (t) from 2007 to 2008. Crushed stone and construction sand and gravel saw smaller decreases in production value compared to portland cement, but had the largest decreases in production by tonnage, down 11.8 million metric tons (Mt) and 5.22 Mt, respectively.

In 2008, Illinois continued to be first in the quantities of industrial sand and gravel produced, fifth in peat (peat production reported as sales), and seventh in fuller's earth clays. The State decreased to second from first in the production of tripoli, after Oklahoma, and to tenth from ninth in the production of portland cement. Despite a 15% decrease in the production of crushed stone, the State rose to fifth from sixth in the production of that mineral commodity. Raw steel continued to be produced in Illinois, but it was processed from ores and scrap metal obtained from other domestic and foreign sources. Both the Buzzi Unicem USA, Inc. Oglesby cement plant and the Carmeuse Lime and Stone South Chicago lime plant were idled in late 2008.

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

(Thousand metric tons and thousand dollars)

Mineral	2006		2007		2008	
	Quantity	Value	Quantity	Value	Quantity	Value
Cement, portland	3,110	308,000 <sup>c</sup>	3,120	309,000 <sup>c</sup>	2,660	263,000 <sup>c</sup>
Clays, fuller's earth	W	W	W	W	112	W
Gemstones, natural	NA	34	NA	34	NA	10
Sand and gravel:						
Construction	32,500	176,000	31,800	175,000	26,600	165,000
Industrial	5,410	102,000	4,090	86,800	3,980	108,000
Stone, crushed	79,000 <sup>r</sup>	601,000 <sup>r</sup>	78,400 <sup>r</sup>	614,000 <sup>r</sup>	66,600	604,000
Combined values of clays (common), lime, peat, stone [dimension dolomite (2008)], tripoli, and values indicated by symbol W	XX	64,100 <sup>r</sup>	XX	61,100 <sup>r</sup>	XX	60,900
Total	XX	1,250,000	XX	1,250,000 <sup>r</sup>	XX	1,200,000

<sup>c</sup>Estimated. <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 three significant digits; may not add to totals shown.

TABLE 2  
ILLINOIS: 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>	123 <sup>r</sup>	55,600 <sup>r</sup>	\$433,000 <sup>r</sup>	116	48,900	\$421,000
Dolomite	16	21,600	174,000	19	16,700	176,000
Sandstone	-- <sup>r</sup>	-- <sup>r</sup>	-- <sup>r</sup>	--	--	--
Miscellaneous stone	3	1,090 <sup>r</sup>	6,550 <sup>r</sup>	116	932	6,330
Total	XX	78,400 <sup>r</sup>	614,000 <sup>r</sup>	XX	66,600	604,000

<sup>r</sup>Revised. XX Not applicable. -- Zero.

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

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

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

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch):		
Macadam	W	W
Riprap and jetty stone	725	6,680
Filter stone	W	W
Other coarse aggregate	1,900	19,800
Coarse aggregate, graded:		
Concrete aggregate, coarse	3,150	30,300
Bituminous aggregate, coarse	1,550	11,200
Bituminous surface-treatment aggregate	W	W
Railroad ballast	W	W
Other graded coarse aggregate	10,300	95,300
Fine aggregate (-¾ inch):		
Stone sand, concrete	601	2,500
Stone sand, bituminous mix or seal	W	W
Screening, undesignated	W	W
Other fine aggregate	4,150	40,500
Coarse and fine aggregates:		
Graded road base or subbase	5,570	35,900
Unpaved road surfacing	W	W
Terrazzo and exposed aggregate	W	W
Crusher run or fill or waste	837	4,470
Other coarse and fine aggregates	3,220	23,000
Other construction materials	198	593
Agricultural:		
Limestone	W	W
Poultry grit and mineral food	W	W
Other agricultural uses	W	W
Chemical and metallurgical, cement manufacture	3,570	31,700
Special:		
Mine dusting or acid water treatment	W	W
Asphalt fillers or extenders	W	W
Other fillers or extenders	W	W
Other miscellaneous uses and specified uses not listed	12	104
Unspecified: <sup>2</sup>		
Reported	15,600	175,000
Estimated	9,700	88,000
Total	66,600	604,000

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

TABLE 4  
ILLINOIS: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2008, BY USE AND DISTRICT<sup>1,2</sup>

(Thousand metric tons and thousand dollars)

Use	Districts 1 and 2		District 3		District 4	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1½ inch) <sup>3</sup>	1,550	16,000	311	3,370	830	7,530
Coarse aggregate, graded <sup>4</sup>	10,500	98,000	2,740	23,600	2,510	22,800
Fine aggregate (-¾ inch) <sup>5</sup>	4,070	36,700	W	W	W	W
Coarse and fine aggregates <sup>6</sup>	4,980	33,100	2,330	17,700	4,110	26,300
Other construction materials	--	--	--	--	198	593
Agricultural <sup>7</sup>	502	1,530	576	4,450	576	2,090
Chemical and metallurgical <sup>8</sup>	W	W	W	W	W	W
Special <sup>9</sup>	W	W	W	W	--	--
Other miscellaneous uses	--	--	--	--	12	104
Unspecified: <sup>10</sup>						
Reported	13,400	15,200	726	8,350	1,480	14,900
Estimated	6,400	58,000	1,900	17,000	1,400	13,000
Total	42,500	402,000	11,000	99,700	13,100	102,000

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

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

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

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

<sup>8</sup>Includes cement manufacture.

<sup>9</sup>Includes asphalt fillers or extenders, mine dusting or acid water treatment, and other fillers or extenders.

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

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

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	9,650	\$58,200	\$6.03
Concrete products (blocks, bricks, pipe, decorative, etc.) <sup>2</sup>	390	1,880	4.81
Asphaltic concrete aggregates and other bituminous mixtures	1,220	6,930	5.69
Road base and coverings <sup>3</sup>	1,870	13,000	6.95
Fill	1,770	8,060	4.56
Snow and ice control	34	183	5.38
Railroad ballast	17	96	5.65
Roofing granules	16	194	12.13
Other miscellaneous uses <sup>4</sup>	95	782	8.23
Unspecified: <sup>5</sup>			
Reported	2,440	17,400	7.15
Estimated	9,100	58,000	6.41
Total or average	26,600	165,000	6.21

<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 (cement and lime).

<sup>4</sup>Includes golf course.

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

TABLE 6  
ILLINOIS: 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		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregate and concrete products <sup>2</sup>	5,670	35,900	1,230	6,060	1,630	10,600
Asphaltic concrete aggregates and and road base materials <sup>3</sup>	1,320	8,530	385	2,480	994	6,050
Fill	1,010	4,860	247	1,060	275	1,280
Other miscellaneous uses <sup>4</sup>	131	965	8	54	15	85
Unspecified: <sup>5</sup>						
Reported	1,550	10,300	189	1,650	590	4,720
Estimated	4,200	26,000	2,500	16,000	2,300	15,000
Total	13,800	86,800	4,530	27,300	5,860	38,000
	District 4					
Use	Quantity	Value				
Concrete aggregate and concrete products <sup>2</sup>	1,510	7,610				
Asphaltic concrete aggregates and and road base materials <sup>3</sup>	383	2,840				
Fill	234	853				
Other miscellaneous uses <sup>4</sup>	9	151				
Unspecified: <sup>5</sup>						
Reported	109	749				
Estimated	116	756				
Total	2,350	13,000				

<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 and lime).

<sup>4</sup>Includes golf course, railroad ballast, roofing granules, and snow and ice control.

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