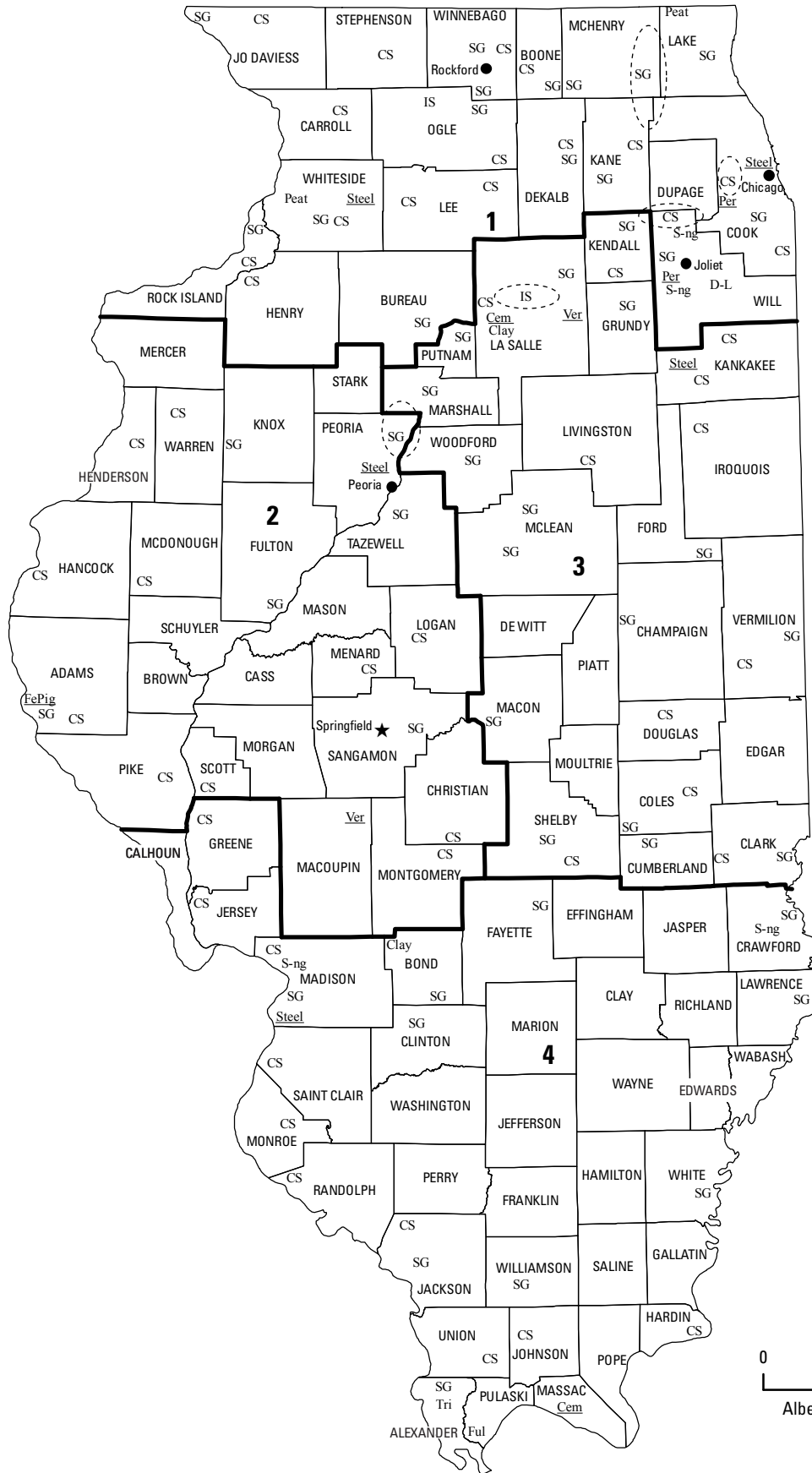




2009 Minerals Yearbook

ILLINOIS

ILLINOIS

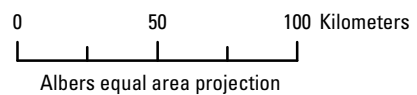


LEGEND

- 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
- IS Industrial sand
- 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 (2009).

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 2009, Illinois' nonfuel raw mineral production¹ was valued at \$929 million, based upon annual U.S. Geological Survey (USGS) data. This was a \$281 million, or 23%, decrease from the State's total nonfuel mineral value of \$1.21 billion in 2008, which decreased by \$40 million, or 3%, from the 2007 production value total of \$1.25 billion. This was the first year since 2003 that the State's nonfuel total production value was less than \$1 billion. The State ranked 22d, down from 20th in 2007–08, among the 50 States in the total nonfuel raw mineral production value and accounted for about 1.6% of the U.S. total, comparable to the total production values of the States of Idaho and New Mexico.

Industrial minerals continued to account for all of Illinois' nonfuel mineral production in 2009. Crushed stone remained Illinois' leading nonfuel mineral commodity, accounting for 55% of the State's total nonfuel mineral production value, followed by, in descending order of value, construction sand and gravel, 16%; portland cement, 15%; and industrial sand and gravel, 11% (table 1).

Tripoli was the only mineral commodity produced in the State that had no decrease in production or production

value from 2008 to 2009, based on reported data, although production and production value remained down by 18% and by 3%, respectively, from those of 2007 (actual values withheld—company proprietary data). The primary drivers of the State's decrease in total production value during the year were the decreases in the production values of portland cement, down by \$122 million, following a \$46-million decline from 2007 to 2008; crushed stone, down by \$100 million; and construction sand and gravel, down by \$24 million. Production values of crushed stone and construction sand and gravel had declined by \$1 million and \$9 million, respectively, from 2007 to 2008. The largest decrease in production took place with crushed stone, down by 11.1 million metric tons (Mt), followed by construction sand and gravel, down by 4.5 Mt, and portland cement, down by 1.17 Mt.

In 2009, Illinois continued to be first in the quantities of industrial sand and gravel produced, accounting for almost 14% of all industrial sand and gravel produced in the Nation. The State returned to first from second (the State had been first in 2007) for tripoli production out of 4 producing States, increased to third from fifth in peat (peat production reported as sales) out of 12 producing States, and increased to fourth from fifth for the production of crushed stone. The State continued to decline in rank in portland cement production, having ranked 9th in 2007, 10th in 2008, and 15th in 2009. Raw steel continued to be produced in Illinois, but it was processed from ores and scrap metal obtained from other domestic and foreign sources. Other mineral products produced in the State in 2009 included iron oxide pigments, expanded perlite, and vermiculite products.

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 2009 USGS mineral production data published in this chapter are those available as of September 2011. 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 ILLINOIS^{1,2}

(Thousand metric tons and thousand dollars)

Mineral	2007		2008		2009	
	Quantity	Value	Quantity	Value	Quantity	Value
Cement, portland	3,120	309,000 ^e	2,660	263,000 ^e	1,490	141,000 ^e
Clays, fuller's earth	W	W	112	W	W	W
Gemstones, natural	NA	34	NA	10	NA	9
Sand and gravel:						
Construction	32,100 ^r	177,000 ^r	27,000 ^r	168,000 ^r	22,500	144,000
Industrial	4,090	86,800	3,980	108,000	3,440	104,000
Stone, crushed	78,400	614,000	67,600 ^r	613,000 ^r	56,500	513,000
Combined values of clays (common), lime (2007-08), peat, stone (dimension dolomite), tripoli, and values indicated by symbol W	XX	61,100	XX	60,900	XX	26,900
Total	XX	1,250,000	XX	1,210,000 ^r	XX	929,000

^eEstimated. ^rRevised. NA Not available. W Withheld to avoid disclosing company proprietary data. Withheld values included in "Combined values" data. XX Not applicable.

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

²Data are rounded to three significant digits; may not add to totals shown.

TABLE 2
ILLINOIS: CRUSHED STONE SOLD OR USED, BY TYPE¹

Type	2008			2009		
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Number of quarries	Quantity (thousand metric tons)	Value (thousands)
Limestone ²	116	48,900	\$421,000	118	44,700	\$384,000
Dolomite	19	16,700	176,000	16	11,100	123,000
Sandstone and quartzite	5	1,940	15,400	4	653	5,930
Miscellaneous stone	1 ^r	36 ^r	332 ^r	2	42	245
Total	XX	67,600 ^r	613,000 ^r	XX	56,500	513,000

^rRevised. XX Not applicable.

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

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

TABLE 3
ILLINOIS: CRUSHED STONE SOLD OR USED BY PRODUCERS
IN 2009, BY USE¹

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch):		
Macadam	25	193
Riprap and jetty stone	350	3,860
Filter stone	52	434
Other coarse aggregate	1,500	15,800
Coarse aggregate, graded:		
Concrete aggregate, coarse	1,130	8,180
Bituminous aggregate, coarse	761	6,190
Bituminous surface-treatment aggregate	297	2,960
Railroad ballast	36	399
Other graded coarse aggregate	7,910	72,200
Fine aggregate (-¾ inch):		
Stone sand, concrete	106	1,120
Stone sand, bituminous mix or seal	239	1,680
Screening, undesignated	99	418
Other fine aggregate	4,700	47,100
Coarse and fine aggregates:		
Graded road base or subbase	2,690	17,100
Unpaved road surfacing	1,090	7,420
Crusher run or fill or waste	86	583
Other coarse and fine aggregates	2,530	19,700
Other construction materials	182	1,510
Agricultural:		
Limestone	1,200	7,050
Poultry grit and mineral food	W	W
Other agricultural uses	20	150
Chemical and metallurgical, cement manufacture	W	W
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	53	382
Unspecified: ²		
Reported	10,000	119,000
Estimated	18,800	159,000
Total	56,500	513,000

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

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

²Reported and estimated production without a breakdown by end use.

TABLE 4
ILLINOIS: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2009, BY USE AND DISTRICT¹

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3		District 4	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Construction:								
Coarse aggregate (+1½ inch) ²	W	W	W	W	W	W	444	4,450
Coarse aggregate, graded ³	W	W	W	W	2,520	20,900	W	W
Fine aggregate (-¾ inch) ⁴	W	W	W	W	1,080	9,820	W	W
Coarse and fine aggregates ⁵	2,000	13,600	668	4,210	1,340	9,590	2,390	17,400
Other construction materials	--	--	37	241	2	17	142	1,250
Agricultural ⁶	W	W	W	W	586	4,870	366	1,820
Chemical and metallurgical ⁷	--	--	--	--	W	W	W	W
Special ⁸	43	126	W	W	W	W	--	--
Other miscellaneous uses	--	--	33	241	19	142	--	--
Unspecified: ⁹								
Reported	6,800	81,300	1,830	20,700	635	7,590	768	9,180
Estimated	9,700	84,400	977	9,140	2,570	23,600	5,510	42,200
Total	29,100	279,000	4,550	40,100	10,000	88,800	12,800	105,000

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

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

²Includes filter stone, macadam, riprap and jetty stone, and other coarse aggregate.

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

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

⁵Includes crusher run or fill or waste, graded road base or subbase, unpaved road surfacing, and other coarse and fine aggregates.

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

⁷Includes cement manufacture.

⁸Includes asphalt fillers or extenders, mine dusting or acid water treatment, and other fillers or extenders.

⁹Reported and estimated production without a breakdown by end use.

TABLE 5
ILLINOIS: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2009,
BY MAJOR USE CATEGORY¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	5,140	\$31,200	\$6.08
Concrete products (blocks, bricks, pipe, decorative, etc.) ²	1,500	10,400	6.91
Asphaltic concrete aggregates and other bituminous mixtures	1,180	9,030	7.66
Road base and coverings ³	732	6,550	8.94
Fill	1,000	5,750	5.73
Snow and ice control	18	73	4.06
Railroad ballast	12	68	5.67
Filtration	14	199	14.21
Other miscellaneous uses ⁴	34	425	12.50
Unspecified: ⁵			
Reported	1,170	8,690	7.42
Estimated	11,700	71,700	6.13
Total or average	22,500	144,000	6.40

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

²Includes plaster and gunite sands.

³Includes road and other stabilization (cement and lime).

⁴Includes golf course and roofing granules.

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

TABLE 6
ILLINOIS: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2009, 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	3,820	25,700	121	691	1,470	8,660
Asphaltic concrete aggregates and other bituminous mixtures	396	3,440	W	W	756	5,420
Road base and coverings ³	259	2,350	W	W	201	1,760
Fill	477	3,110	177	923	140	764
Railroad ballast	12	68	--	--	--	--
Other miscellaneous uses ⁴	22	198	73	753	21	194
Unspecified: ⁵						
Reported	741	5,450	14	92	259	2,250
Estimated	4,790	27,900	3,800	23,500	2,490	16,300
Total	10,500	68,200	4,180	26,000	5,340	35,300
	District 4					
Use	Quantity	Value				
Concrete aggregate and concrete products ²	1,230	6,530				
Asphaltic concrete aggregates and other bituminous mixtures	W	W				
Road base and coverings ³	W	W				
Fill	210	952				
Railroad ballast	--	--				
Other miscellaneous uses ⁴	248	2,160				
Unspecified: ⁵						
Reported	156	901				
Estimated	635	4,050				
Total	2,480	14,600				

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 (cement and lime).

⁴Includes filtration, golf course, roofing granules, and snow and ice control.

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