



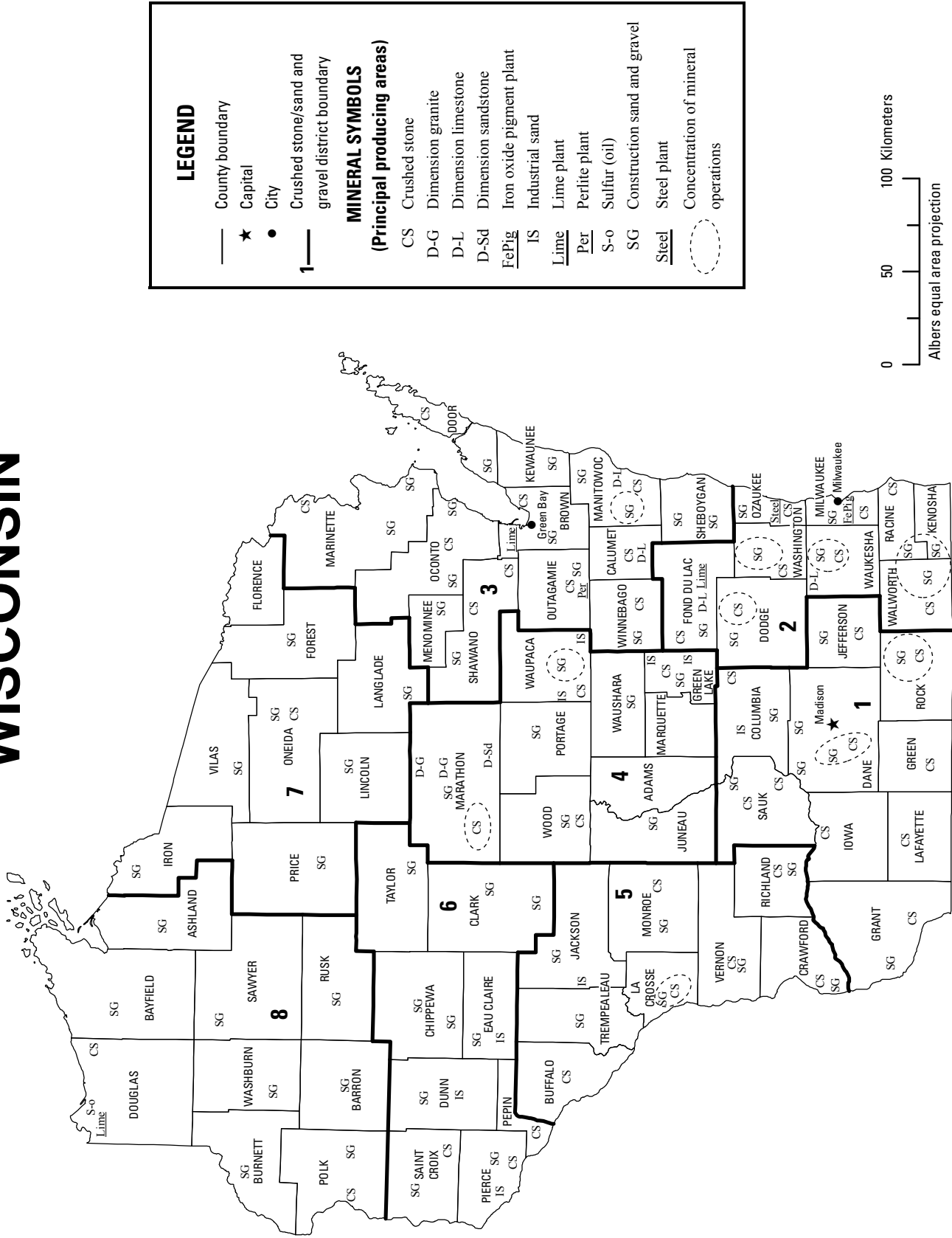
# 2009 Minerals Yearbook

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**WISCONSIN**

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# WISCONSIN



Source: Wisconsin Geological and Natural History Survey/U.S. Geological Survey (2009).

# THE MINERAL INDUSTRY OF WISCONSIN

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

In 2009, Wisconsin's nonfuel raw mineral production<sup>1</sup> was valued at \$546 million, based upon annual U.S. Geological Survey (USGS) data. This was a \$106 million, or 16%, decrease from the State's total nonfuel mineral value of \$652 million in 2008, which was up by \$67 million, or 11%, from \$585 million in 2007. The State declined in rank from 32d to 33d among the 50 States in total nonfuel mineral production value and accounted for slightly less than 1% of the U.S. total production value.

Crushed stone, construction sand and gravel, and industrial sand and gravel were (in descending order of total production value) Wisconsin's leading nonfuel minerals in 2009, accounting for 36%, 26%, and 19%, respectively, of the State's reportable total nonfuel raw mineral production value (table 1). These were followed by lime and dimension stone, accounting for almost 13% and about 5% of the State's total nonfuel mineral value, respectively.

No mineral commodity produced in the State in 2009 rose in either production or production value. The production value of gemstones produced in the State remained the same as in 2008. The largest decrease in production value took place with construction sand and gravel, down almost \$47 million, followed by crushed stone, industrial sand and gravel, dimension stone, and lime, down almost \$40 million, \$15

million, \$3.5 million, and \$1.4 million, respectively.

The production value of crushed stone increased from 2007 to 2008, by \$47 million, although with a 21% decline in production. From 2008 to 2009, production declined by almost 12%, but the production value of this mineral commodity rose to be 3.7% above that of 2007. Industrial sand and gravel experienced a similar peak in 2008 for production value, although production was up 24% from that of 2007 to 2008. Construction sand and gravel and dimension stone have been experiencing declining production and production values since 2007, with the production of construction sand and gravel in 2009 down 25% from that of 2007, and the production of dimension stone down almost 33%. Lime production has declined by about 100,000 metric tons each year since 2007 (an aggregate decrease of 22%), although the production value total of \$70.1 million in 2009 was only 10% less than the total of \$78 million in 2007. Owing to the recession, one of the four lime plants in Wisconsin was idle part of the year.

In 2009, Wisconsin rose to second from third in rank for the quantity of industrial sand and gravel produced, accounting for 11% of the Nation's total of almost 24.6 million metric tons (Mt) produced. The State continued to rank second in dimension stone production. The State had ranked first, ahead of Texas, from 2006 to 2007. The State continued to rank ninth for lime production. Wisconsin decreased to 10th from 8th for the total quantity of construction sand and gravel produced, 29 Mt, which accounted for approximately 3.5% of the Nation's total of 836 Mt produced. For comparison, California, the leading producer of construction sand and gravel, produced 79 Mt, accounting for 9.5% of the Nation's total. Steel and iron oxide pigments were produced at locations throughout the State, but from material obtained from other domestic and foreign sources.

<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 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 WISCONSIN<sup>1,2</sup>

(Thousand metric tons and thousand dollars)

Mineral	2007		2008		2009	
	Quantity	Value	Quantity	Value	Quantity	Value
Gemstones, natural	NA	6	NA	7	NA	7
Lime	959	78,000	852	71,500	751	70,100
Peat	W	26	W	26	--	--
Sand and gravel:						
Construction	39,000 <sup>r</sup>	189,000 <sup>r</sup>	36,200 <sup>r</sup>	190,000 <sup>r</sup>	29,100	143,000
Industrial	2,650	90,100	3,290	120,000	2,730	105,000
Stone:						
Crushed	32,800	191,000	25,900	238,000 <sup>r</sup>	22,900	198,000
Dimension	307	35,900	250	33,300	207	29,800
Total	XX	585,000 <sup>r</sup>	XX	652,000 <sup>r</sup>	XX	546,000

<sup>r</sup>Revised. NA Not available. W Withheld to avoid disclosing company proprietary data. XX Not applicable. -- Zero.

<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  
WISCONSIN: CRUSHED STONE SOLD OR USED, BY TYPE<sup>1</sup>

Type	2008			2009		
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Number of quarries	Quantity (thousand metric tons)	Value (thousands)
Limestone <sup>2</sup>	212 <sup>r</sup>	21,600	\$127,000	187	19,100	\$119,000
Dolomite	8	482	2,340	4	117	789
Granite	9	2,170	10,700	9	1,780	7,880
Traprock	4	1,420	95,800	4	1,420	67,400
Miscellaneous stone	3	218	1,270	6	466	2,640
Total	XX	25,900	238,000 <sup>r</sup>	XX	22,900	198,000

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

<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  
WISCONSIN: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2009, BY USE<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch):		
Riprap and jetty stone	494	1,390
Filter stone	173	1,050
Other coarse aggregate	175	1,270
Coarse aggregate, graded:		
Concrete aggregate, coarse	108	867
Bituminous aggregate, coarse	70	269
Bituminous surface-treatment aggregate	W	W
Other graded coarse aggregate	1,130	6,070
Fine aggregate (-¾ inch):		
Stone sand, concrete	W	W
Stone sand, bituminous mix or seal	W	W
Screening, undesignated	192	640
Other fine aggregate	310	1,870
Coarse and fine aggregates:		
Graded road base or subbase	2,210	9,800
Unpaved road surfacing	W	W
Crusher run or fill or waste	595	1,740
Roofing granules	W	W
Other coarse and fine aggregates	1,560	8,510
Other construction materials	50	236
Agricultural:		
Limestone	265	3,610
Poultry grit and mineral food	W	W
Other agricultural uses	56	248
Unspecified: <sup>2</sup>		
Reported	716	3,710
Estimated	14,000	93,200
Total	22,900	198,000

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  
WISCONSIN: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2009, BY USE AND DISTRICT<sup>1</sup>

(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) <sup>2</sup>	136	859	W	W	W	W	--	--
Coarse aggregate, graded <sup>3</sup>	W	W	W	W	W	W	W	W
Fine aggregate (-¾ inch) <sup>4</sup>	W	W	354	1,850	W	W	--	--
Coarse and fine aggregate <sup>5</sup>	1,750	8,420	1,800	8,240	W	W	W	W
Other construction materials	50	236	--	--	--	--	--	--
Agricultural <sup>6</sup>	233	1,420	W	W	W	W	--	--
Unspecified: <sup>7</sup>								
Reported	--	--	--	--	--	--	674	3,500
Estimated	3,410	23,400	3,510	23,800	2,020	14,200	1,540	7,170
Total	5,760	35,500	7,290	43,200	3,330	79,600	2,440	11,700
Use	District 5		District 6		District 7		District 8	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Construction:								
Coarse aggregate (+1½ inch) <sup>2</sup>	W	W	--	--	--	--	--	--
Coarse aggregate, graded <sup>3</sup>	W	W	--	--	--	--	--	--
Fine aggregate (-¾ inch) <sup>4</sup>	W	W	--	--	--	--	--	--
Coarse and fine aggregate <sup>5</sup>	W	W	--	--	--	--	--	--
Other construction materials	--	--	--	--	--	--	--	--
Agricultural <sup>6</sup>	W	W	--	--	--	--	--	--
Unspecified: <sup>7</sup>								
Reported	--	--	41	214	--	--	--	--
Estimated	2,110	14,800	721	4,910	95	669	583	4,260
Total	2,650	17,600	762	5,120	95	669	583	4,260

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 filter stone, riprap and jetty stone, and other coarse aggregates.

<sup>3</sup>Includes bituminous aggregate (coarse), bituminous surface-treatment aggregate, concrete aggregate (coarse), and other graded coarse aggregates.

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

<sup>5</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>6</sup>Includes limestone, poultry grit and mineral food, and other agricultural uses.

<sup>7</sup>Reported and estimated production without a breakdown by end use.

TABLE 5  
 WISCONSIN: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2009,  
 BY MAJOR USE CATEGORY<sup>1</sup>

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	2,740	\$14,600	\$5.30
Plaster and gunite sands	899	5,180	5.76
Concrete products (blocks, bricks, pipe, decorative, etc.)	106	462	4.36
Asphaltic concrete aggregates and other bituminous mixtures	1,430	7,590	5.32
Road base and coverings	3,260	13,600	4.17
Road stabilization (cement and lime)	75	436	5.81
Fill	1,600	6,720	4.20
Snow and ice control	168	774	4.61
Roofing granules	4	28	7.00
Other miscellaneous uses <sup>2</sup>	186	2,370	12.73
Unspecified: <sup>3</sup>			
Reported	1,260	6,940	5.53
Estimated	17,400	84,600	4.87
Total or average	29,100	143,000	4.92

<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 railroad ballast.

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

TABLE 6  
WISCONSIN: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2009,  
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 aggregates and concrete products <sup>2</sup>	429	2,980	2,480	12,200	334	1,480
Asphaltic concrete aggregates and road base materials <sup>3</sup>	W	W	1,670	6,550	419	1,650
Fill	96	419	1,040	4,110	105	365
Other miscellaneous uses <sup>4</sup>	956	5,030	60	332	36	202
Unspecified: <sup>5</sup>						
Reported	139	889	8	46	229	1,110
Estimated	2,060	10,900	3,920	19,000	2,430	10,900
<b>Total</b>	<b>3,680</b>	<b>20,300</b>	<b>9,180</b>	<b>42,200</b>	<b>3,550</b>	<b>15,700</b>
Use	District 4		District 5		District 6	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregates and concrete products <sup>2</sup>	W	W	W	W	270	1,280
Asphaltic concrete aggregates and road base materials <sup>3</sup>	187	977	W	W	586	3,020
Fill	9	27	186	1,390	86	130
Other miscellaneous uses <sup>4</sup>	129	571	332	1,850	101	1,570
Unspecified: <sup>5</sup>						
Reported	817	4,500	6	51	16	184
Estimated	2,430	11,800	1,340	6,520	2,440	12,200
<b>Total</b>	<b>3,570</b>	<b>17,900</b>	<b>1,870</b>	<b>9,810</b>	<b>3,500</b>	<b>18,400</b>
Use	District 7		District 8		Unspecified districts	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregates and concrete products <sup>2</sup>	W	W	W	W	--	--
Asphaltic concrete aggregates and road base materials <sup>3</sup>	172	760	294	1,260	250	1,050
Fill	48	145	29	126	--	--
Other miscellaneous uses <sup>4</sup>	109	1,930	49	276	--	--
Unspecified: <sup>5</sup>						
Reported	25	80	17	79	--	--
Estimated	1,130	5,420	807	3,920	816	3,960
<b>Total</b>	<b>1,480</b>	<b>8,340</b>	<b>1,200</b>	<b>5,660</b>	<b>1,070</b>	<b>5,010</b>

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 (cement and lime).

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

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