



2008 Minerals Yearbook

WISCONSIN

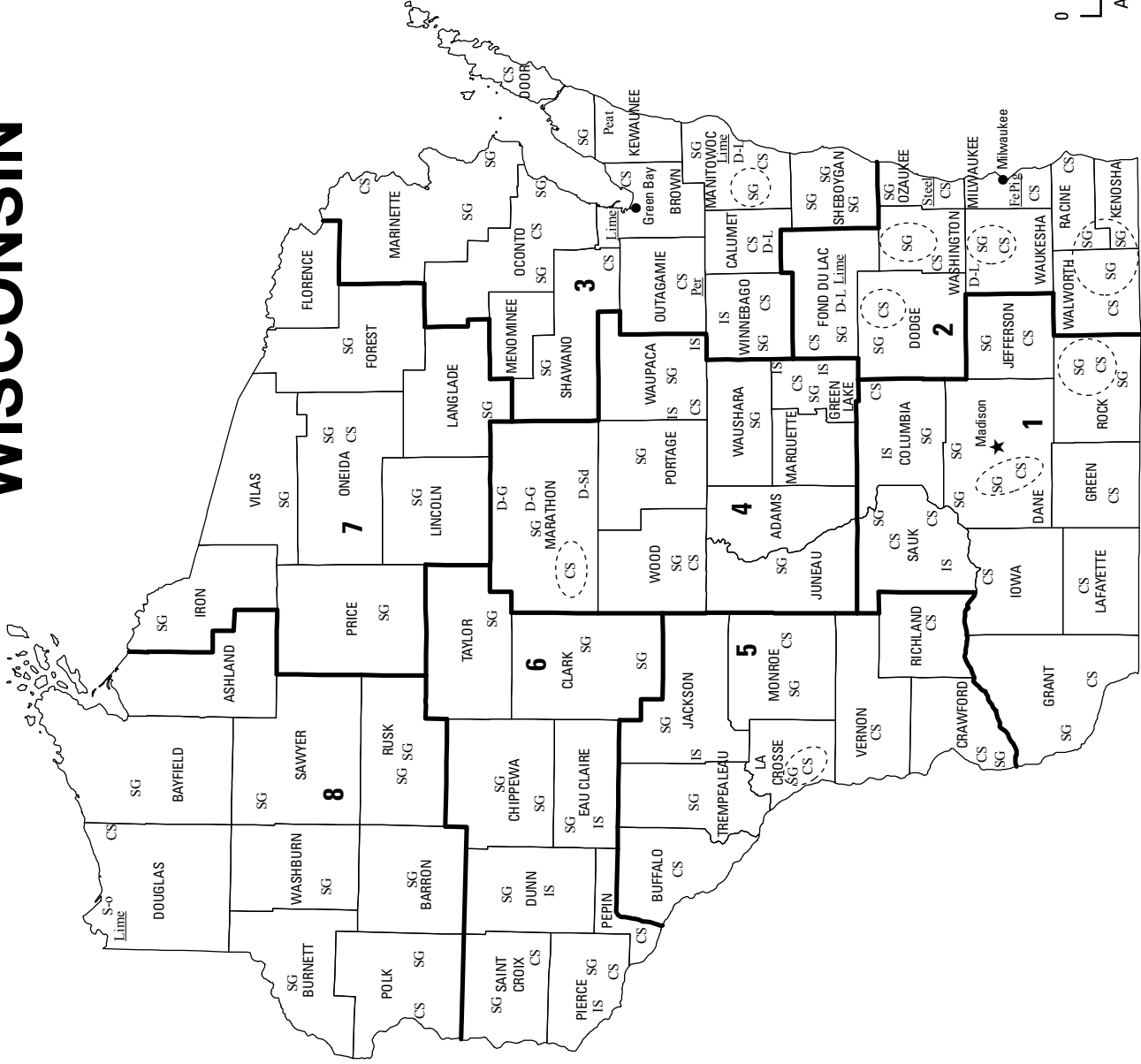
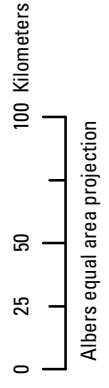
WISCONSIN

LEGEND

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

MINERAL SYMBOLS (Principal producing areas)

- CS Crushed stone
- D-G Dimension granite
- D-L Dimension limestone
- D-Sd Dimension sandstone
- FePig Iron oxide pigment plant
- IS Industrial sand
- Lime Lime plant
- Peat Peat
- Per Perlite plant
- S-o Sulfur (oil)
- SG Construction sand and gravel
- Steel Steel plant
- Concentration of mineral operations



Source: Wisconsin Geological and Natural History Survey/U.S. Geological Survey (2008).

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 2008, Wisconsin's nonfuel raw mineral production¹ was valued at \$647 million, based upon annual U.S. Geological Survey (USGS) data. This was a \$66 million, or 11%, increase from the State's total nonfuel mineral value of \$581 million in 2007, which was down by \$13 million, or just over 2%, from \$594 million in 2006. The State rose in rank to 32nd, from 35th in 2007, among the 50 States in total nonfuel mineral production value and accounted for slightly less than 1% of the U.S. total value. [Because data for peat (2006) have been withheld (company proprietary data), the actual total production value for the State in 2006 are somewhat higher than those reported in table 1.]

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 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 and construction sand and gravel were (in descending order of total production value) Wisconsin's leading nonfuel minerals in 2008, accounting for about 36% and almost 29%, respectively, of the State's reportable total nonfuel raw mineral production value (table 1). These were followed by industrial sand and gravel, representing about 18% of the total value, lime with nearly 11%, and dimension stone with about 5% of the State's total nonfuel mineral value.

In 2008, the total production value of crushed stone rose significantly, by almost \$46 million, even though production was down 21% from 2007 to 2008. This increase, plus the almost \$30 million increase in the production value of industrial sand and gravel, contributed to the State's increase in total production value in 2008. Decreases were seen with the production values of lime and dimension stone, but both of these were a magnitude smaller than the increases for crushed stone and industrial sand and gravel.

In 2008, Wisconsin remained third in rank for the quantity of industrial sand and gravel produced and declined from first (in 2006–07) to second in dimension stone production. The State decreased from 8th to 9th for lime production, but rose from 10th to 8th for the total quantity of construction sand and gravel.

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

(Thousand metric tons and thousand dollars)

Mineral	2006		2007		2008	
	Quantity	Value	Quantity	Value	Quantity	Value
Gemstones, natural	NA	6	NA	6	NA	7
Lime	922	70,700	959	78,000	852	71,500
Peat	W	W	W	26	W	26
Sand and gravel:						
Construction	39,600	182,000	38,200	186,000	35,400	185,000
Industrial	2,450	74,100	2,650	90,100	3,290	120,000
Stone:						
Crushed	41,000 ^r	231,000 ^r	32,800 ^r	191,000 ^r	25,900	237,000
Dimension	302 ^r	35,800 ^r	307 ^r	35,900 ^r	250	33,300
Total	XX	594,000 ^r	XX	581,000 ^r	XX	647,000

^rRevised. NA Not available. W Withheld to avoid disclosing company proprietary data; excluded from "Total." 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
WISCONSIN: CRUSHED STONE SOLD OR USED, BY TYPE¹

Type	2007			2008		
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Number of quarries	Quantity (thousand metric tons)	Value (thousands)
Limestone ²	216 ^r	26,900 ^r	\$157,000 ^r	211	21,600	\$127,000
Dolomite	9	545	2,680	8	482	2,340
Marble	-- ^r	-- ^r	-- ^r	--	--	--
Granite	7 ^r	1,580 ^r	7,460 ^r	9	2,170	10,700
Traprock	6	3,160	20,800	4	1,420	95,800
Miscellaneous stone	3 ^r	629 ^r	3,120 ^r	3	218	1,270
Total	XX	32,800 ^r	191,000 ^r	XX	25,900	237,000

^rRevised. XX Not applicable. -- Zero.

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
WISCONSIN: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2008, BY USE¹

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch):		
Riprap and jetty stone	543	2,150
Filter stone	111	738
Other coarse aggregate	704	3,880
Coarse aggregate, graded:		
Concrete aggregate, coarse	207	1,560
Bituminous aggregate, coarse	1,080	7,330
Bituminous surface-treatment aggregate	W	W
Other graded coarse aggregate	1,110	8,610
Fine aggregate (-¾ inch):		
Stone sand, concrete	95	820
Stone sand, bituminous mix or seal	102	224
Screening, undesignated	340	1,170
Other fine aggregate	364	2,510
Coarse and fine aggregates:		
Graded road base or subbase	2,450	13,200
Unpaved road surfacing	W	W
Terrazzo and exposed aggregate	W	W
Crusher run or fill or waste	646	2,040
Roofing granules	W	W
Other coarse and fine aggregates	2,120	10,400
Other construction materials	2	20
Agricultural:		
Limestone	345	4,780
Other agricultural uses	82	352
Special, other fillers or extenders	W	W
Unspecified: ²		
Reported	299	1,740
Estimated	13,000	77,000
Total	25,900	237,000

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
WISCONSIN: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2008, BY USE AND DISTRICT¹

(Thousand metric tons and thousand dollars)

Use	Districts 1 and 2 ²		District 3		District 4		District 5	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Construction:								
Coarse aggregate (+1½ inch) ³	401	2,230	W	W	W	W	W	W
Coarse aggregate, graded ⁴	2,200	16,100	W	W	--	--	W	W
Fine aggregate (-¾ inch) ⁵	719	4,140	42	232	W	W	W	W
Coarse and fine aggregate ⁶	3,940	18,800	W	W	W	W	W	W
Other construction materials	2	20	--	--	--	--	--	--
Agricultural ⁷	W	W	W	W	--	--	W	W
Special ⁸	W	W	--	--	--	--	--	--
Unspecified: ⁹								
Reported	--	--	--	--	298	1,740	--	--
Estimated	5,000	29,000	2,700	16,000	763	4,500	3,400	20,000
Total	12,600	74,700	4,900	116,000	2,700	13,900	3,710	21,800
			District 6	District 7	District 8		Unspecified districts	
			Quantity	Value	Quantity	Value	Quantity	Value
Construction:								
Coarse aggregate (+1½ inch) ³	--	--	--	--	--	--	291	1,280
Coarse aggregate, graded ⁴	--	--	--	--	--	--	--	--
Fine aggregate (-¾ inch) ⁵	--	--	--	--	--	--	--	--
Coarse and fine aggregate ⁶	161	962	--	--	17	96	18	77
Other construction materials	--	--	--	--	--	--	--	--
Agricultural ⁷	--	--	--	--	40	553	--	--
Special ⁸	--	--	--	--	--	--	--	--
Unspecified: ⁹								
Reported	--	--	--	--	--	--	--	--
Estimated	810	4,700	90	525	486	2,800	--	--
Total	971	5,700	90	525	543	3,490	309	1,360

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 are combined to avoid disclosing company proprietary data.

³Includes filter stone, riprap and jetty stone, and other coarse aggregates.

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

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

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

⁷Includes limestone and other agricultural uses.

⁸Includes other fillers or extenders.

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

TABLE 5
WISCONSIN: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2008,
BY MAJOR USE CATEGORY¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	5,270	\$29,800	\$5.66
Plaster and gunitite sands	227	1,800	7.94
Concrete products (blocks, bricks, pipe, decorative, etc.)	248	924	3.73
Asphaltic concrete aggregates and other bituminous mixtures	1,850	10,200	5.55
Road base and coverings	4,810	20,700	4.30
Road stabilization (cement)	26	197	7.58
Road stabilization (lime)	1,040	5,500	5.30
Fill	1,540	5,280	3.43
Snow and ice control	156	827	5.30
Railroad ballast	10	72	7.20
Roofing granules	8	47	5.88
Other miscellaneous uses ²	146	1,970	13.49
Unspecified: ³			
Reported	1,210	7,450	6.18
Estimated	18,800	100,000	5.33
Total or average	35,400	185,000	5.24

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

²Includes filtration.

³Reported and estimated production without a breakdown by end use.

TABLE 6
WISCONSIN: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2008,
BY USE AND DISTRICT^{1,2}

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregates and concrete products ³	929	5,970	3,560	19,300	641	3,230
Asphaltic concrete aggregates and road base materials ⁴	1,120	5,980	3,860	19,000	781	2,750
Fill	75	161	1,120	4,190	196	430
Other miscellaneous uses ⁵	45	234	58	364	21	142
Unspecified: ⁶						
Reported	228	1,490	20	113	40	230
Estimated	1,870	10,600	4,200	22,200	2,390	12,600
Total	4,260	24,500	12,800	65,100	4,070	19,400
	Districts 4 and 5		District 6		Districts 7 and 8	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregates and concrete products ³	274	1,160	W	W	W	W
Asphaltic concrete aggregates and road base materials ⁴	358	1,850	811	3,520	518	2,000
Fill	45	194	71	115	38	182
Other miscellaneous uses ⁵	34	228	322	2,670	184	2,200
Unspecified: ⁶						
Reported	745	4,120	78	1,160	94	345
Estimated	4,620	24,500	2,100	11,200	2,390	12,700
Total	6,080	32,000	3,380	18,600	3,230	17,400
	Unspecified districts					
	Quantity	Value				
Concrete aggregates and concrete products ³	--	--				
Asphaltic concrete aggregates and road base materials ⁴	284	1,570				
Fill	--	--				
Other miscellaneous uses ⁵	--	--				
Unspecified: ⁶						
Reported	--	--				
Estimated	1,240	6,580				
Total	1,530	8,140				

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.

²Specified districts are combined to avoid disclosing company proprietary data.

³Includes plaster and gunite sands.

⁴Includes road and other stabilization (cement and lime).

⁵Includes filtration, railroad ballast, roofing granules, and snow and ice control.

⁶Reported and estimated production without a breakdown by end use.