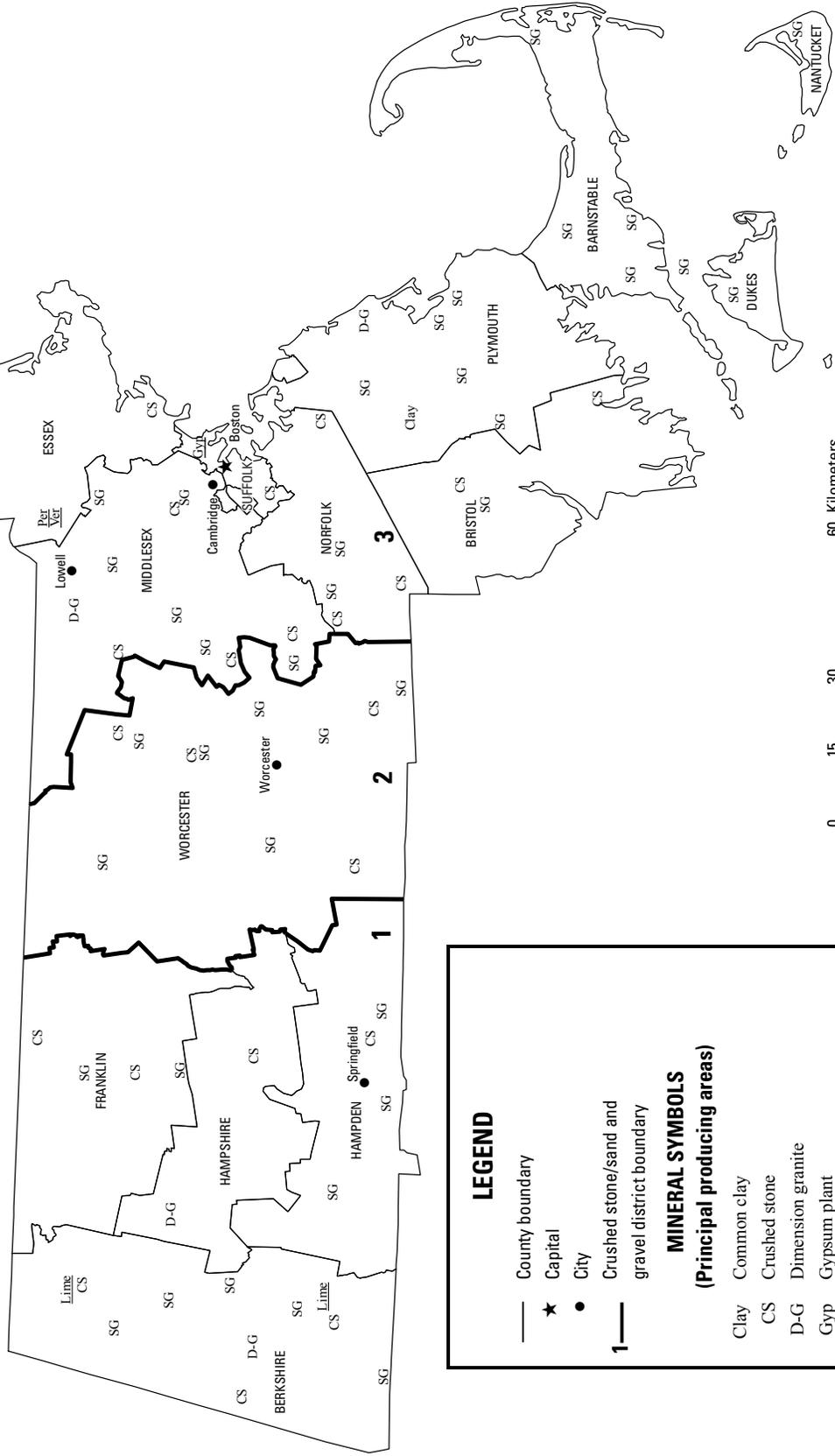




2008 Minerals Yearbook

MASSACHUSETTS

MASSACHUSETTS



0 15 30 60 Kilometers

Albers equal area projection

LEGEND

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

MINERAL SYMBOLS
(Principal producing areas)

- Clay
- CS Crushed stone
- D-G Dimension granite
- Gyp Gypsum plant
- Lime Lime plant
- Per Perlite plant
- SG Construction sand and gravel
- Ver Vermiculite plant

THE MINERAL INDUSTRY OF MASSACHUSETTS

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

In 2008, Massachusetts nonfuel raw mineral production¹ was valued at \$242 million, based upon annual U.S. Geological Survey data. This was a \$51 million, or a 17%, decrease from the State's total nonfuel mineral value in 2007, which then had increased by \$3 million, up by 1% from that of 2006. The State's leading nonfuel mineral commodities were, in descending order of production value, crushed stone and construction sand and gravel, accounting for 97% of the State's total reported value. Because production value data for lime

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>.

and for common clays have been withheld, the State's actual total nonfuel mineral values for 2006–08 are higher than those reported in table 1.

In 2008, all of the State's mineral commodities experienced a decline in quantities produced and production value. In descending order, the greatest decreases were seen with construction sand and gravel, crushed stone, and dimension stone, for a combined decrease of over 6 million metric tons from 2007. Though unit prices were up in 2008, the reduced production for these commodities lowered the total production value by more than \$32 million, \$14 million, and almost \$5 million, or about 23%, 10%, and 40%, respectively, from 2007 (table 1).

In 2008, Massachusetts ranked 10th, down from 4th, among the 37 dimension stone-producing States for quantity produced. The State accounted for just over 1% of the Nation's total production of construction sand and gravel and just less than 1% of its crushed stone production.

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

(Thousand metric tons and thousand dollars)

Mineral	2006		2007		2008	
	Quantity	Value	Quantity	Value	Quantity	Value
Clays, common	36	W	31	W	24	W
Gemstones, natural	NA	1	NA	1	NA	1
Lime	W	W	W	W	W	W
Sand and gravel, construction	17,600	134,000	15,800 ^r	141,000 ^r	11,200	109,000
Stone:						
Crushed	13,700 ^r	145,000 ^r	12,300 ^r	140,000 ^r	10,900	126,000
Dimension	89 ^r	11,700 ^r	98 ^r	12,000 ^r	53	7,140
Total	XX	290,000 ^r	XX	293,000 ^r	XX	242,000

^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 three significant digits; may not add to totals shown.

TABLE 2
MASSACHUSETTS: 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	3	946	\$19,600	4	768	\$16,900
Granite	10	5,120 ^r	51,800 ^r	11	3,300	35,200
Traprock	16	5,010 ^r	54,800 ^r	19	5,570	59,400
Miscellaneous stone	5 ^r	1,230 ^r	13,900 ^r	6	1,220	14,100
Total	XX	12,300 ^r	140,000 ^r	XX	10,900	126,000

^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
MASSACHUSETTS: 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	W	W
Other coarse aggregate	5	46
Coarse aggregate, graded:		
Railroad ballast	W	W
Other graded coarse aggregate	238	2,330
Coarse and fine aggregates:		
Graded road base or subbase	223	2,440
Unpaved road surfacing	W	W
Terrazzo and exposed aggregate	W	W
Other coarse and fine aggregates	18	237
Other construction materials	1,920	18,800
Agricultural:		
Limestone	W	W
Poultry grit and mineral food	W	W
Chemical and metallurgical:		
Lime manufacture	W	W
Flux stone	W	W
Special, other fillers or extenders	W	W
Unspecified: ²		
Reported	3,830	41,100
Estimated	4,100	47,000
Total	10,900	126,000

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

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1½ inch) ²	W	W	W	W	W	W
Coarse aggregate, graded ³	--	--	W	W	W	W
Coarse and fine aggregates ⁴	W	W	W	W	W	W
Other construction materials	15	1,220	847	7,460	1,050	10,100
Agricultural ⁵	W	W	--	--	--	--
Chemical and metallurgical ⁶	W	W	--	--	--	--
Special ⁷	W	W	--	--	--	--
Unspecified: ⁸						
Reported	--	--	--	--	3,830	41,100
Estimated	1,500	17,000	970	11,000	1,700	19,000
Total	2,200	33,400	1,850	19,100	6,810	73,200

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.

²Includes riprap and jetty stone and other coarse aggregate.

³Includes railroad ballast and other graded coarse aggregate.

⁴Includes graded road base or subbase, unpaved road surfacing, terrazzo and exposed aggregate, and other coarse and fine aggregates.

⁵Includes limestone and poultry grit and mineral food.

⁶Includes lime manufacture and flux stone.

⁷Includes other fillers or extenders.

⁸Reported and estimated production without a breakdown by end use.

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

Use	Quantity	Value (thousands)	Unit value
	(thousand metric tons)		
Concrete aggregate (including concrete sand)	1,890	\$20,000	\$10.59
Concrete products (blocks, bricks, pipe, decorative, etc.) ²	111	1,060	9.51
Asphaltic concrete aggregates and other bituminous mixtures	940	13,300	14.13
Road base and coverings ³	473	5,300	11.21
Fill	1,020	4,980	4.87
Snow and ice control	226	2,790	12.35
Filtration	101	1,150	11.38
Other miscellaneous uses ⁴	70	594	8.49
Unspecified: ⁵			
Reported	794	6,510	8.20
Estimated	5,600	53,000	9.53
Total or average	11,200	109,000	9.71

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).

⁴Includes golf course, railroad ballast, and roofing granules.

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

TABLE 6
 MASSACHUSETTS: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2008, BY USE AND DISTRICT¹

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregates and concrete products ²	497	6,310	250	2,150	1,220	12,300
Asphaltic concrete aggregates and road base materials ³	260	3,840	420	5,260	733	9,480
Fill	589	2,830	234	1,160	199	983
Snow and ice control	51	690	117	1,310	58	786
Other miscellaneous uses ⁴	29	220	70	829	72	693
Unspecified: ⁵						
Reported	502	3,730	212	2,310	80	467
Estimated	960	9,200	570	5,400	4,000	39,000
Total	2,890	26,800	1,910	18,800	6,410	63,300

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).

⁴Includes filtration, golf course, railroad ballast, and roofing granules.

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