

THE MINERAL INDUSTRY OF MASSACHUSETTS

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

In 2000, the estimated value¹ of nonfuel mineral production for Massachusetts was \$210 million, based upon preliminary U.S. Geological Survey (USGS) data. This was an 8.8% increase from that of 1999² and followed a 5.4% decrease in

¹The terms “nonfuel mineral production” and related “values” encompass variations in meaning, depending upon the minerals or 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 2000 USGS mineral production data published in this chapter are preliminary estimates as of July 2001 and are expected to change. For some mineral commodities, such as construction sand and gravel and crushed stone, estimates are updated periodically. To obtain the most current information, please contact the appropriate USGS mineral commodity specialist. A telephone listing of the specialists may be retrieved over the Internet at URL <http://minerals.usgs.gov/minerals/contacts/comdir.html>, by using MINES FaxBack at (703) 648-4999 from a fax machine with a touch-tone handset (request Document #1000 for a telephone listing of all mineral commodity specialists), or by calling USGS information at (703) 648-4000 for the specialist’s name and number. All Mineral Industry Surveys—mineral commodity, State, and country—also may be retrieved over the Internet at URL <http://minerals.usgs.gov/minerals>; facsimile copies may be obtained from MINES FaxBack.

1999 from 1998.

Massachusetts’ leading mineral commodities by value were crushed stone, construction sand and gravel, and dimension stone. In 2000, increases of \$13.1 million in crushed stone and \$4.8 million in construction sand and gravel accounted for all of the State’s increase in nonfuel mineral production value. While slight decreases occurred in lime and dimension stone (descending order of change), all other nonfuel minerals were unchanged (table 1). In 1999, decreases of \$7 million in the values of crushed stone and \$2.8 million in construction sand and gravel, plus smaller drops in lime and dimension stone values resulted in the State’s overall decrease for the year. Only industrial sand and gravel was up (slightly). Based upon USGS estimates of the quantities produced in the United States in 2000, Massachusetts continued to be sixth among those States having dimension stone production.

²Values, percentage calculations, and rankings for 1999 may vary from the Minerals Yearbook, Area Reports: Domestic 1999, Volume II, owing to the revision of preliminary 1999 to final 1999 data. Data for 2000 are preliminary and are expected to change; related rankings may also change.

TABLE 1
NONFUEL RAW MINERAL PRODUCTION IN MASSACHUSETTS 1/ 2/

(Thousand metric tons and thousand dollars unless otherwise specified)

Mineral	1998		1999		2000 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Clays, common	W	W	W	W	36	W
Gemstones	NA	1	NA	1	NA	1
Sand and gravel, construction	14,000	78,000	12,700	75,200	13,300	80,000
Stone:						
Crushed	12,800	96,900	11,600	89,900	13,000	103,000
Dimension metric tons	85,800	17,600	70,400	16,900	71,600	16,800
Combined values of lime, sand and gravel (industrial), and values indicated by symbol W	XX	12,000	XX	10,800	XX	10,200
Total	XX	204,000	XX	193,000	XX	210,000

p/ Preliminary. NA Not available. W Withheld to avoid disclosing company proprietary data; value included with “Combined values” data. XX Not applicable.

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

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

TABLE 2
MASSACHUSETTS: CRUSHED STONE SOLD OR USED, BY KIND 1/

Kind	1998				1999			
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value
Limestone 2/	5 r/	2,070 r/	\$20,200 r/	\$9.76 r/	5	814	\$8,130	\$9.98
Granite	7 r/	2,990 r/	21,600 r/	7.22 r/	7	3,010	22,800	7.59
Traprock	21 r/	7,400 r/	52,900 r/	7.14 r/	21	7,480	56,100	7.51
Miscellaneous stone	3	307 r/	2,250 r/	7.32 r/	3	330	2,750	8.34
Total or average	XX	12,800	96,900	7.59	XX	11,600	89,900	7.73

r/ Revised. XX Not applicable.

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

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

TABLE 3
MASSACHUSETTS: CRUSHED STONE SOLD OR USED
BY PRODUCERS IN 1999, BY USE 1/ 2/

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Construction:			
Coarse aggregate (+1 1/2 inch):			
Macadam	W	W	\$8.49
Riprap and jetty stone	41	\$347	8.46
Filter stone	56	497	8.88
Other coarse aggregates	62	604	9.74
Coarse aggregate, graded:			
Concrete aggregate, coarse	391	2,440	6.24
Bituminous aggregate, coarse	823	7,420	9.02
Bituminous surface-treatment aggregate	W	W	9.62
Railroad ballast	217	1,410	6.50
Other graded coarse aggregate	219	1,890	8.63
Fine aggregate (-3/8 inch):			
Stone sand, concrete	63	417	6.62
Stone sand, bituminous mix or seal	208	705	3.39
Screening, undesignated	82	330	4.02
Other fine aggregate	88	338	3.84
Coarse and fine aggregates:			
Graded road base or subbase	471	2,700	5.72
Unpaved road surfacing	73	746	10.22
Crusher run or fill or waste	693	4,290	6.19
Other coarse and fine aggregates	9	90	10.00
Other construction materials	W	W	12.10
Agricultural:			
Agricultural limestone	W	W	18.98
Poultry grit and mineral food	W	W	18.98
Chemical and metallurgical, lime manufacture	W	W	6.73
Special, other fillers or extenders	W	W	17.04
Unspecified: 3/			
Reported	4,830	38,400	7.95
Estimated	1,800	13,000	7.17
Total or average	11,600	89,900	7.73

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

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

2/ Includes granite, limestone, limestone-dolomite, miscellaneous stone, and traprock.

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

TABLE 4
 MASSACHUSETTS: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 1999,
 BY USE AND DISTRICT 1/

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1 1/2 inch) 2/	27	238	146	1,380	75	587
Coarse aggregate, graded 3/	1,000	7,600	822	7,920	630	5,380
Fine aggregate (-3/8 inch) 4/	W	W	186	854	W	W
Coarse and fine aggregate 5/	141	812	516	3,100	590	3,910
Other construction materials	W	W	40	176	--	--
Agricultural 6/	W	W	--	--	--	--
Chemical and metallurgical 7/	W	W	--	--	--	--
Special 8/	W	W	--	--	--	--
Unspecified: 9/						
Reported	W	W	--	--	W	W
Estimated	390	2,800	590	4,200	860	6,200
Total	2,420	18,100	2,300	17,600	6,920	54,100

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

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

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

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

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

5/ Includes crusher run (select material or fill), graded road base or subbase, unpaved road surfacing, and other coarse and fine aggregates.

6/ Includes agricultural limestone and poultry grit and mineral food.

7/ Includes lime manufacture.

8/ Includes other fillers or extenders.

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

TABLE 5
 MASSACHUSETTS: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 1999,
 BY MAJOR USE CATEGORY 1/

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	3,110	\$20,600	\$6.60
Plaster and gunite sands	90	580	6.44
Concrete products (blocks, bricks, decorative, pipe, etc.)	93	444	4.77
Asphaltic concrete aggregates and other bituminous mixtures	356	3,020	8.49
Road base and coverings	1,540	6,820	4.43
Fill	1,170	2,990	2.55
Snow and ice control	552	2,090	3.78
Other miscellaneous uses 2/	47	555	11.80
Unspecified: 3/			
Reported	1,040	5,750	5.54
Estimated	4,700	32,000	6.81
Total or average	12,700	75,200	5.90

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

2/ Includes railroad ballast.

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

TABLE 6
 MASSACHUSETTS: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 1999,
 BY USE AND DISTRICT 1/

(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/	650	4,560	786	3,920	1,860	13,100
Asphaltic concrete aggregates and road base materials	594	3,380	709	3,570	591	2,890
Fill	180	394	669	1,560	323	1,030
Snow and ice control	245	511	175	833	132	743
Other miscellaneous uses 3/	32	415	16	140	--	--
Unspecified: 4/						
Reported	--	--	959	5,470	78	278
Estimated	800	4,000	340	2,100	3,600	26,000
Total	2,500	13,200	3,650	17,600	6,580	44,400

-- Zero.

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

2/ Includes gunite sands and plaster.

3/ Includes railroad ballast.

4/ Reported and estimated production without a breakdown by end use.