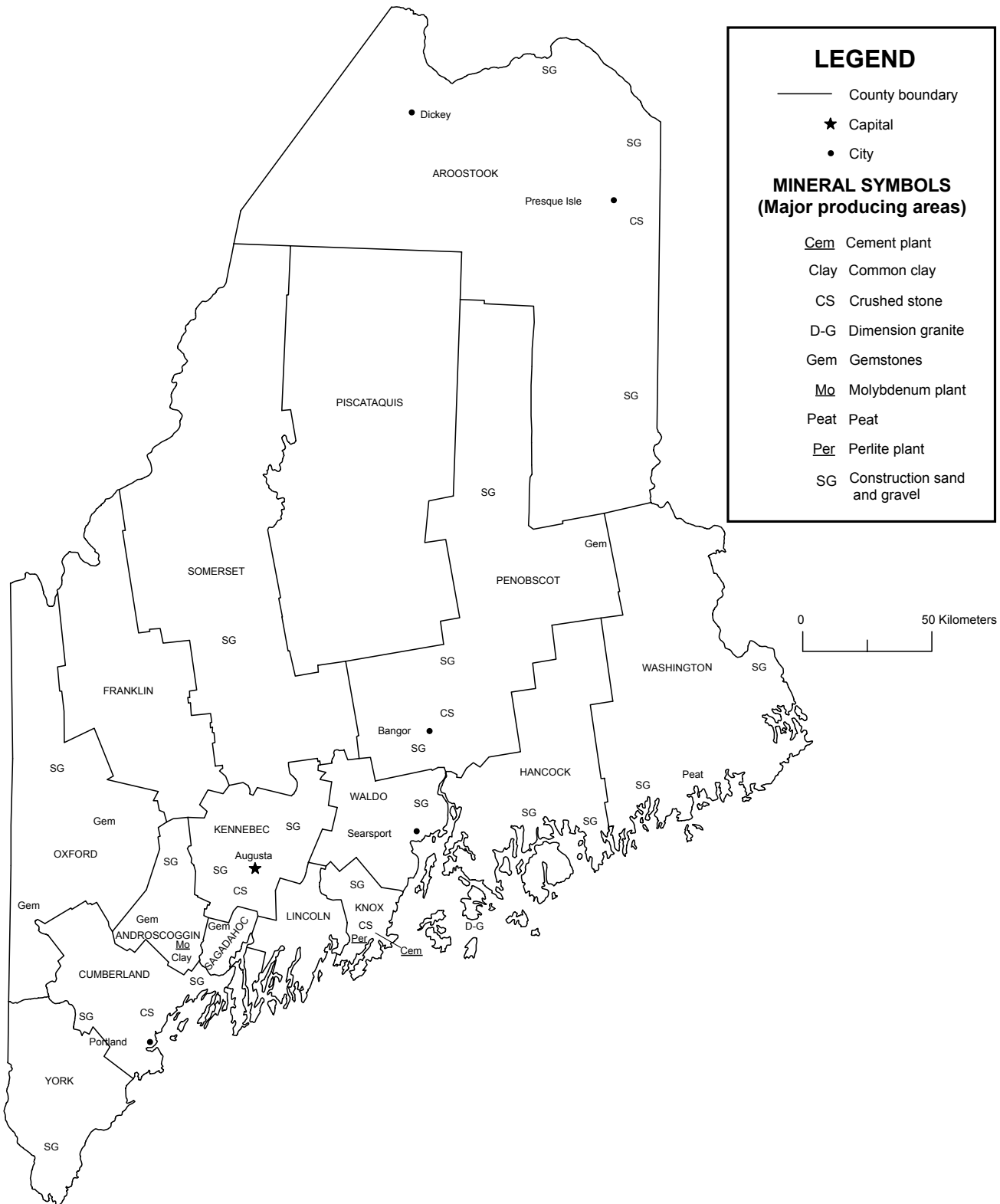


MAINE



Source: Maine Geological Survey/U.S. Geological Survey (2004)

THE MINERAL INDUSTRY OF MAINE

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

In 2004, Maine's nonfuel raw mineral production was valued¹ at \$118 million, based upon annual U.S. Geological Survey data. This was a 10.3% increase from that of 2003,² which was up 7.3% from 2002.

The large majority of Maine's nonfuel mineral production resulted from the mining and production of construction minerals and materials—construction sand and gravel, portland cement, crushed stone, and dimension granite (descending order of value). In 2004, construction sand and gravel and crushed stone accounted for nearly 67% of the State's total nonfuel raw mineral production value. Increases in the production of crushed stone, value up \$7 million, portland cement, and construction sand and gravel, up \$1.5 million (descending order of change) accounted for most of Maine's increase in total value for the year. The only significant decrease in commodity value took place in dimension granite.

In 2004, Maine was 12th (11th in 2003) in the production of gemstones (based upon value) and significant quantities of construction sand and gravel were produced in the State.

In 2003, the largest increases in value took place in construction sand and gravel and dimension granite, up more than \$7 million and more than \$1 million, respectively. The largest decrease was that of crushed stone, down slightly less than \$1 million (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 2004 USGS mineral production data published in this chapter are those available as of December 2005. All USGS Mineral Industry Surveys and USGS Minerals Yearbook chapters—mineral commodity, State, and country—also can be retrieved over the Internet at URL <http://minerals.usgs.gov/minerals>.

²Values, percentage calculations, and rankings for 2003 may differ from the Minerals Yearbook, Area Reports: Domestic 2003, Volume II, owing to the revision of preliminary 2003 to final 2003 data. Data and rankings for 2004 are considered to be final and are not likely to change significantly.

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

(Thousand metric tons and thousand dollars)

Mineral	2002		2003		2004	
	Quantity	Value	Quantity	Value	Quantity	Value
Clays, common	49 ^e	125 ^e	49 ^e	125 ^e	49	W
Gemstones	NA	257	NA	262	NA	268
Sand and gravel, construction	9,680	40,400	10,400	47,600	10,800	49,100
Stone, crushed	4,010	23,400	3,530	22,500	4,370	29,500
Combined values of cement, peat, stone (dimension granite), and values indicated by symbol W	XX	35,400	XX	36,700	XX	39,300
Total	XX	99,700	XX	107,000	XX	118,000

^eEstimated. 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 no more than three significant digits; may not add to totals shown.

TABLE 2
MAINE: CRUSHED STONE SOLD OR USED, BY KIND¹

Kind	2002				2003				2004			
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value
Limestone	4	1,390	\$7,550	\$5.42	4	1,350	\$7,600	\$5.65	4	1,680	\$10,300	\$6.12
Granite	4	1,360	8,350	6.14	3	1,320	9,300	7.06	6	1,980	14,300	7.23
Traprock	1	W	W	6.61	--	--	--	--	--	--	--	--
Quartzite	2	W	W	6.14	2	W	W	6.29	2	W	W	6.90
Slate	1	W	W	9.89	1	W	W	10.21	1	W	W	10.79
Miscellaneous stone	2	710	4,040	5.68	2	273	1,730	6.36	2	209	1,340	6.40
Total or average	XX	4,010	23,400	5.85	XX	3,530	22,500	6.38	XX	4,370	29,500	6.75

W Withheld to avoid disclosing company proprietary data; included in "Total or average." XX Not applicable. -- Zero.

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

TABLE 3a
 MAINE: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2003, BY USE¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Construction:			
Coarse aggregate (+1½ inch):			
Riprap and jetty stone	65	\$391	\$6.02
Filter stone	W	W	6.59
Other coarse aggregates	20	151	7.55
Total or average	85	542	6.38
Coarse aggregate, graded:			
Concrete aggregate, coarse	(2)	(2)	4.96
Bituminous aggregate, coarse	(2)	(2)	7.59
Bituminous surface-treatment aggregate	(2)	(2)	13.11
Railroad ballast	(2)	(2)	7.46
Total or average	506	3,620	7.16
Fine aggregate (-¾ inch):			
Stone sand, concrete	114	635	5.57
Stone sand, bituminous mix or seal	(3)	(3)	8.82
Screening, undesignated	(3)	(3)	2.76
Other fine aggregates	56	345	6.16
Total or average	170	980	5.76
Coarse and fine aggregates, other coarse and fine aggregates	1,180	8,030	6.78
Chemical and metallurgical:			
Cement manufacture	(2)	(2)	5.19
Lime manufacture	(2)	(2)	5.19
Total or average	603	3,130	5.19
Unspecified:³			
Reported	304	1,880	6.17
Estimated	670	4,300	6.39
Total or average	978	6,190	6.33
Grand total or average	3,530	22,500	6.38

W Withheld to avoid disclosing company proprietary data; included with "Other coarse aggregates."

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

²Withheld to avoid disclosing company proprietary data; included in "Total or average."

³Withheld to avoid disclosing company proprietary data; included with "Other fine aggregates."

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

TABLE 3b
 MAINE: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2004, BY USE¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Construction:			
Coarse aggregate (+1½ inch):			
Riprap and jetty stone	40	\$416	\$10.40
Filter stone	18	127	7.06
Other coarse aggregates	46	222	4.83
Total or average	104	765	7.36
Coarse aggregate, graded:			
Concrete aggregate, coarse	140	1,070	7.62
Bituminous aggregate, coarse	W	W	6.58
Bituminous surface-treatment aggregate	W	W	10.47
Railroad ballast	W	W	10.76
Other graded coarse aggregates	411	3,510	8.53
Total or average	551	4,570	8.30
Fine aggregate (-¾ inch):			
Stone sand, concrete	97	666	6.87
Stone sand, bituminous mix or seal	(2)	(2)	7.85
Screening, undesignated	(2)	(2)	4.41
Other fine aggregates	138	967	7.01
Total or average	235	1,630	6.95
Coarse and fine aggregates:			
Graded road base or subbase	78	446	5.72
Crusher run or fill or waste	(3)	(3)	5.51
Other coarse and fine aggregates	1,510	10,300	6.81
Total or average	1,590	10,700	6.76
Chemical and metallurgical:			
Cement manufacture	(4)	(4)	5.56
Lime manufacture	(4)	(4)	5.56
Total or average	618	3,430	5.56
Unspecified:⁵			
Reported	1,050	6,850	6.55
Estimated	230	1,500	6.69
Total or average	1,270	8,360	6.57
Grand total or average	4,370	29,500	6.75

W Withheld to avoid disclosing company proprietary data; included with "Other graded coarse aggregates."

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

²Withheld to avoid disclosing company proprietary data; included with "Other fine aggregates."

³Withheld to avoid disclosing company proprietary data; included with "Other coarse and fine aggregates."

⁴Withheld to avoid disclosing company proprietary data; included in "Total or average."

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

TABLE 4a
 MAINE: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2003,
 BY MAJOR USE CATEGORY¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	820	\$3,820	\$4.66
Concrete products (blocks, bricks, pipe, decorative, etc.)	74	389	5.24
Asphaltic concrete aggregates and other bituminous mixtures	1,010	6,470	6.38
Road base and coverings ²	2,440	11,500	4.30
Fill	1,140	4,280	3.77
Snow and ice control	315	1,560	4.93
Railroad ballast	34	222	6.54
Other miscellaneous uses ³	9	84	9.46
Unspecified: ⁴			
Reported	1,070	4,270	3.99
Estimated	3,500	15,000	4.25
Total or average	10,400	47,600	4.56

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

²Includes road and other stabilization (cement and lime).

³Includes filtration.

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

TABLE 4b
 MAINE: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2004,
 BY MAJOR USE CATEGORY¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	880	\$4,110	\$4.67
Concrete products (blocks, bricks, pipe, decorative, etc.)	73	401	5.47
Asphaltic concrete aggregates and other bituminous mixtures	1,230	8,310	6.74
Road base and coverings ²	2,290	10,500	4.59
Fill	895	2,450	2.73
Snow and ice control	420	2,010	4.80
Other miscellaneous uses ³	31	246	8.02
Unspecified: ⁴			
Reported	694	2,740	3.95
Estimated	4,300	18,000	4.22
Total or average	10,800	49,100	4.52

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

²Includes road and other stabilization (cement and lime).

³Includes filtration and railroad ballast.

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