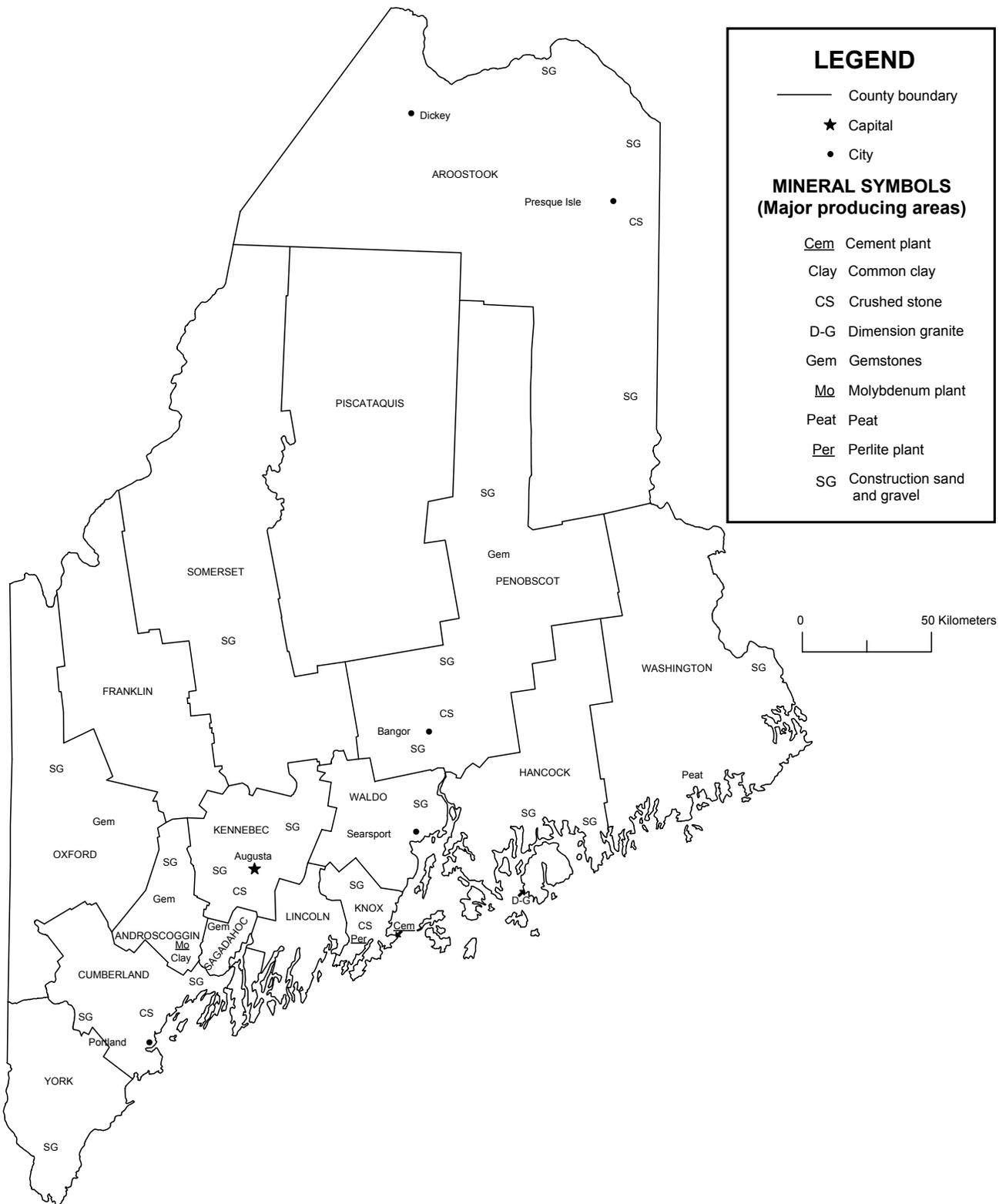


# MAINE



Source: Maine Geological Survey/U.S. Geological Survey (2002)

# 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 2002, the estimated value<sup>1</sup> of nonfuel mineral production for Maine was \$106 million, based upon preliminary U.S. Geological Survey (USGS) data. This was about a 4% increase from that of 2001<sup>2</sup> and followed a nearly 7% increase in 2001 from 2000.

<sup>1</sup>The terms “nofuel 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 2002 USGS mineral production data published in this chapter are preliminary estimates as of July 2003 and are expected to change. For some mineral commodities, such as construction sand and gravel, crushed stone, and portland cement, estimates are updated periodically. To obtain the most current information, please contact the appropriate USGS mineral commodity specialist. Specialist contact information may be retrieved over the Internet at URL <http://minerals.usgs.gov/minerals/contacts/comdir.html>; alternatively, specialists' names and telephone numbers may be obtained by calling USGS information at (703) 648-4000 or by calling the USGS Earth Science Information Center at 1-888-ASK-USGS (275-8747). All Mineral Industry Surveys—mineral commodity, State, and country—also may be retrieved over the Internet at URL <http://minerals.usgs.gov/minerals>.

<sup>2</sup>Values, percentage calculations, and rankings for 2001 may differ from the Minerals Yearbook, Area Reports: Domestic 2001, Volume II, owing to the revision of preliminary 2001 to final 2001 data. Data for 2002 are preliminary and are expected to change; related rankings may also change.

The large majority of Maine's nonfuel mineral production resulted from the mining and production of construction minerals and materials—construction sand and gravel, cement (portland and masonry), crushed stone, and dimension granite (descending order of value). In 2002, construction sand and gravel and crushed stone accounted for about 66% of the State's total nonfuel raw mineral production value, but the majority of the increase in value resulted from a rise in the production and value of portland cement, supported by smaller increases in crushed stone and construction sand and gravel. Further information regarding cement and dimension granite has been withheld to protect company proprietary data. In 2001, increases of \$7.3 million in construction sand and gravel and \$3.1 million in crushed stone plus a smaller increase in dimension granite more than offset a net decrease of nearly \$5 million in cement (portland and masonry) and a smaller drop in peat (table 1).

Based upon USGS estimates of the quantities of minerals produced in the United States in 2001, Maine (by value) remained 13th in the production of gemstones but decreased in rank to 9th from 6th in the production of peat. Additionally, the State's mine pits produced significant quantities of construction sand and gravel.

TABLE 1  
NONFUEL RAW MINERAL PRODUCTION IN MAINE<sup>1,2</sup>

(Thousand metric tons and thousand dollars)

| Mineral   | 2000     |        | 2001     |         | 2002 <sup>P</sup> |                    |
|---|----------|--------|----------|---------|-------------------|--------------------|
|   | Quantity | Value  | Quantity | Value   | Quantity          | Value              |
| Cement, masonry   | W        | W      | W        | W       | 10 <sup>e</sup>   | 1,000 <sup>e</sup> |
| Clays, common e/  | 49       | 125    | 49       | 125     | 49                | 125                |
| Gemstones   | NA       | 239    | NA       | 245     | NA                | 252                |
| Sand and gravel, construction   | 9,670    | 37,600 | 11,200   | 44,900  | 11,000            | 45,200             |
| Stone, crushed  | 3,650    | 21,100 | 4,210    | 24,200  | 4,200             | 24,600             |
| Combined values of cement (portland), peat, stone (dimension granite), and values indicated by symbol W | XX       | 36,500 | XX       | 32,600  | XX                | 34,600             |
| Total   | XX       | 95,500 | XX       | 102,000 | XX                | 106,000            |

<sup>e</sup>Estimated. <sup>P</sup>Preliminary. NA Not available. W Withheld to avoid disclosing company proprietary data; value included with "Combined values" data. XX Not applicable.

<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  
MAINE: CRUSHED STONE SOLD OR USED, BY KIND<sup>1</sup>

| Kind                | 2000               |                                 |                   |                   | 2001               |                                 |                   |            |
|---------------------|--------------------|---------------------------------|-------------------|-------------------|--------------------|---------------------------------|-------------------|------------|
|                     | Number of quarries | Quantity (thousand metric tons) | Value (thousands) | Unit value        | Number of quarries | Quantity (thousand metric tons) | Value (thousands) | Unit value |
| Limestone           | 5                  | 1,300                           | \$7,260           | \$5.58            | 6                  | 1,440                           | \$7,960           | \$5.53     |
| Granite             | 4                  | 1,320                           | 7,150             | 5.40 <sup>r</sup> | 4                  | 1,370                           | 7,880             | 5.74       |
| Traprock            | 1                  | W                               | W                 | 8.82 <sup>r</sup> | 1                  | W                               | W                 | 6.61       |
| Quartzite           | 2                  | W                               | W                 | 6.16              | 2                  | W                               | W                 | 5.98       |
| Slate               | 1                  | W                               | W                 | 7.19 <sup>r</sup> | 1                  | W                               | W                 | 8.00       |
| Miscellaneous stone | 6 <sup>r</sup>     | 373                             | 2,410             | 6.47              | 3                  | 830                             | 4,800             | 5.78       |
| Total or average    | XX                 | 3,650                           | 21,100            | 5.78              | XX                 | 4,210                           | 24,200            | 5.75       |

<sup>r</sup>Revised. W Withheld to avoid disclosing company proprietary data; included in "Total." XX Not applicable.

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

TABLE 3  
MAINE: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2001, BY USE<sup>1</sup>

| Use                                | Quantity (thousand metric tons) | Value (thousands) | Unit value |
|------------------------------------|---------------------------------|-------------------|------------|
| Construction:                      |                                 |                   |            |
| Coarse aggregate (+1 1/2 inch):    |                                 |                   |            |
| Riprap and jetty stone             | W                               | W                 | \$8.25     |
| Filter stone                       | W                               | W                 | 5.08       |
| Other coarse aggregates            | 50                              | \$452             | 9.04       |
| Coarse aggregate, graded:          |                                 |                   |            |
| Concrete aggregate, coarse         | 268                             | 1,380             | 5.15       |
| Bituminous aggregate, coarse       | W                               | W                 | 6.13       |
| Railroad ballast                   | W                               | W                 | 6.33       |
| Fine aggregate (-3/8 inch):        |                                 |                   |            |
| Stone sand, concrete               | 69                              | 391               | 5.67       |
| Stone sand, bituminous mix or seal | W                               | W                 | 6.25       |
| Other fine aggregates              | 20                              | 108               | 5.40       |
| Coarse and fine aggregates:        |                                 |                   |            |
| Graded road base or subbase        | W                               | W                 | 7.05       |
| Other coarse and fine aggregates   | 1,140                           | 6,630             | 5.81       |
| Other construction materials       | 648                             | 3,630             | 5.62       |
| Chemical and metallurgical:        |                                 |                   |            |
| Cement manufacture                 | W                               | W                 | 5.51       |
| Lime manufacture                   | W                               | W                 | 5.51       |
| Unspecified: <sup>2</sup>          |                                 |                   |            |
| Reported                           | 573                             | 3,300             | 5.75       |
| Estimated                          | 470                             | 2,700             | 5.73       |
| Total or average                   | 4,210                           | 24,200            | 5.75       |

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

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

TABLE 4  
 MAINE: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2001, BY MAJOR USE CATEGORY<sup>1</sup>

| Use   | Quantity<br>(thousand<br>metric tons) | Value<br>(thousands) | Unit<br>value |
|---|---------------------------------------|----------------------|---------------|
| Concrete aggregates and concrete products <sup>2</sup>      | 978                                   | \$4,260              | \$4.36        |
| Asphaltic concrete aggregates and other bituminous mixtures | 1,300                                 | 9,250                | 7.14          |
| Road base and coverings <sup>3</sup>                        | 1,790                                 | 6,190                | 3.47          |
| Fill  | 947                                   | 3,020                | 3.19          |
| Snow and ice control  | 537                                   | 2,260                | 4.20          |
| Railroad ballast  | 43                                    | 142                  | 3.30          |
| Other miscellaneous uses                                    | 27                                    | 141                  | 5.22          |
| Unspecified: <sup>4</sup>                                   |                                       |                      |               |
| Reported  | 1,300                                 | 4,520                | 3.48          |
| Estimated   | 4,200                                 | 15,000               | 3.57          |
| Total or average  | 11,200                                | 44,900               | 4.03          |

<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 plaster and gunite sands.

<sup>3</sup>Includes road and other stabilization (cement and lime).

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