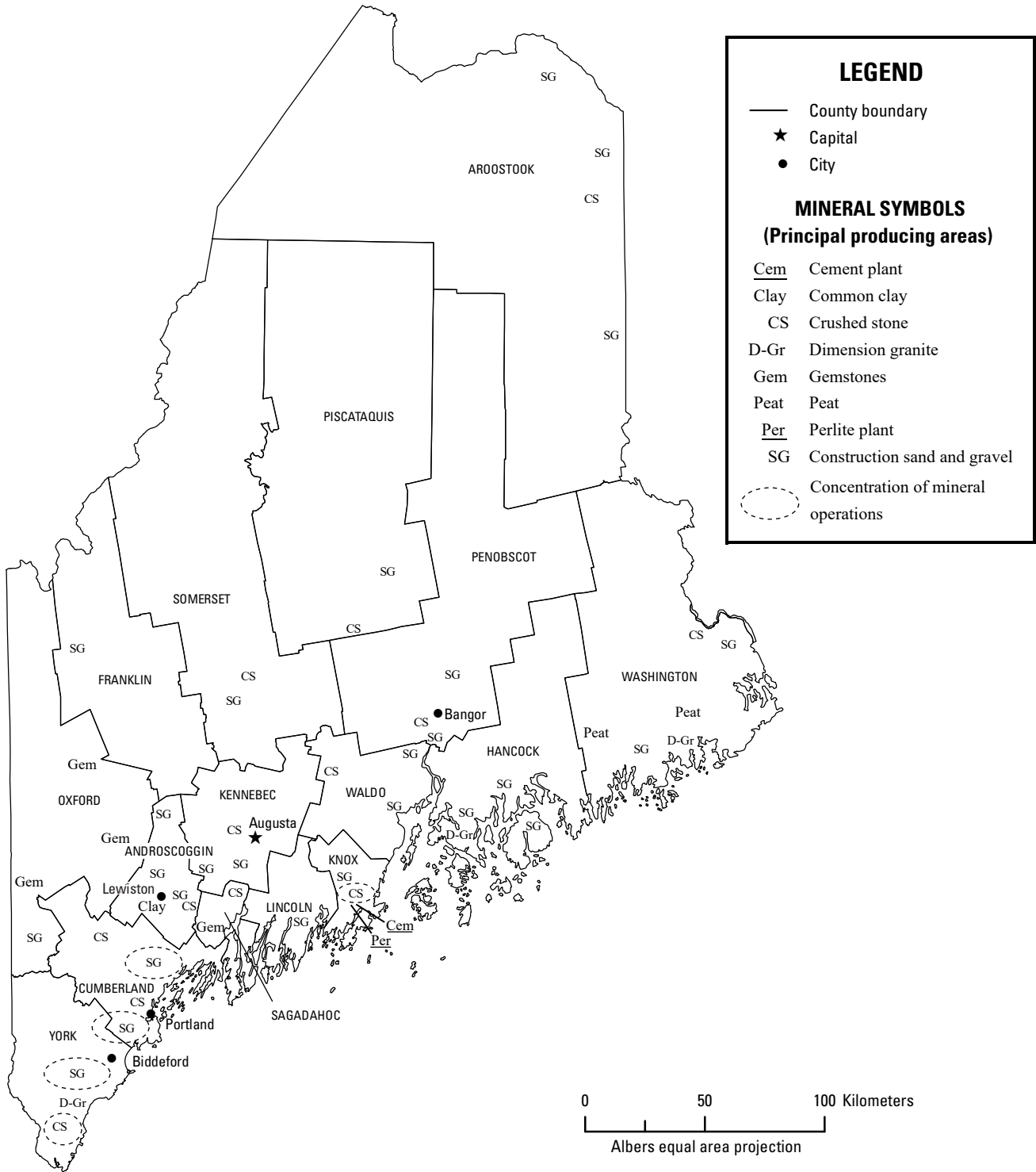




2010–2011 Minerals Yearbook

MAINE

MAINE



Source: Maine Geological Survey/U.S. Geological Survey (2010–11).

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 2011, Maine's nonfuel mineral production¹ was valued at \$118 million, based upon annual U.S. Geological Survey (USGS) data. This was a 5.7% increase from the State's total nonfuel mineral production value of \$112 million in 2010, which followed an 11% decrease from \$126 million in 2009. The State dropped from 44th in rank among the 50 States in total nonfuel mineral production value in 2009 to 45th in 2011 and 2010. It accounted for less than one-quarter of 1% of the total U.S. production value in each year. On a per capita basis, Maine ranked 35th in the Nation in nonfuel mineral production in 2011 with a value of \$89 per capita, well below the national average of \$240.

The vast majority of the State's nonfuel mineral production resulted from construction minerals and materials—construction

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 USGS mineral production data published in this chapter are those available as of May 2013. Data in this report are rounded to three significant digits and percentages are calculated from unrounded data. All USGS Mineral Industry Surveys and USGS Minerals Yearbook chapters—mineral commodity, State, and country—can be retrieved over the Internet at <http://minerals.usgs.gov/minerals>.

sand and gravel, portland cement, and crushed stone, in descending order of value. Construction sand and gravel and crushed stone accounted for close to 70% of Maine's total nonfuel mineral production value in 2011 and 2010, similar to their combined proportion throughout much of the past two decades. From 2009 to 2010, crushed stone decreased slightly, while production of construction sand and gravel decreased by 1.2 million metric tons (Mt) (13%) and the production value dropped \$14 million (23%). From 2010 to 2011, construction sand and gravel increased slightly in production by 23,000 metric tons (t) (0.3%), while the production value rose by \$7.6 million (17%). The quantity of crushed stone produced increased by 124,000 t (3.5%), but its production value decreased by \$4.6 million (15%). Dimension stone, peat, masonry cement, gemstones, and common clay were also produced.

Changes in the production of portland cement during 2011 and 2010 were negligible.

Maine is notable for peat production and ranked third in the Nation in 2011 and 2010 (based on sales), up from fourth in 2009, out of 13 producing States in both years. One company in Lewiston, in southern Maine, also continued to produce molybdenum and tungsten products from raw materials originating from outside of the State.

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

(Thousand metric tons and thousand dollars)

Mineral	2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value
Gemstone, naturals	NA	353 ^r	NA	347	NA	353
Sand and gravel, construction	9,180 ^r	59,800 ^r	7,970	45,900	7,990	53,500
Stone:						
Crushed	3,600	31,600	3,520	31,200	3,650	26,600
Dimension	6	1,300	8	1,250	6	3,640
Combined values of cement, clays (common), peat	XX	32,600	XX	32,900	XX	33,800
Total	XX	126,000 ^r	XX	112,000	XX	118,000

^rRevised. NA Not available. 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 IN THE UNITED STATES, BY TYPE¹

Type	2009			2010			2011					
	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 ²	7 ^r	1,550 ^r	\$12,200	\$7.87	6	1,620	\$12,200	\$7.57	7	1,680	\$10,800	\$6.44
Granite	6	1,260	12,000	9.59	6	1,240	12,200	9.80	6	1,420	10,900	7.67
Traprock	--	--	--	--	2	93	1,150	12.46	2	75	989	13.14
Sandstone and quartzite ³	3	404	3,610	8.93	3	279	2,480	8.87	2	204	1,490	7.30
Miscellaneous stone	9 ^r	397 ^r	3,840 ^r	9.68	7	294	3,210	10.92	6	268	2,470	9.21
Total or average	XX	3,600	31,600	8.79	XX	3,520	31,200	8.87	XX	3,650	26,600	7.31

^rRevised. XX Not applicable. -- Zero.

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

²Includes limestone-dolomite reported with no distinction between the two kinds of stone.

³Includes sandstone-quartzite reported with no distinction between the two kinds of stone.

TABLE 3
MAINE: CRUSHED STONE SOLD OR USED BY PRODUCERS
IN 2010, BY USE¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit Values
Construction:			
Coarse aggregate (+1½ inch):			
Riprap and jetty stone	W	W	W
Filter stone	W	W	W
Other coarse aggregate	74	\$608	\$8.17
Coarse aggregate, graded:			
Concrete aggregate, coarse	73	380	5.24
Other graded coarse aggregate	W	W	W
Fine aggregate (-¾ inch):			
Screening, undesignated	W	W	W
Other fine aggregate	W	W	W
Coarse and fine aggregates:			
Graded road base or subbase	40	338	8.49
Unpaved road surface	11	141	12.60
Chemical and metallurgical, cement manufacture	W	W	W
Unspecified: ²			
Reported	1,680	16,700	9.94
Estimated	898	8,520	9.49
Total	3,520	31,200	8.86

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
 MAINE: CRUSHED STONE SOLD OR USED BY PRODUCERS
 IN 2011, BY USE¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit Value
Construction:			
Coarse aggregate (+1½ inch):			
Riprap and jetty stone	33	\$450	\$13.68
Filter stone	14	186	13.08
Unspecified coarse aggregate	95	780	8.20
Coarse aggregate, graded:			
Concrete aggregate, coarse	129	910	7.06
Bituminous aggregate, coarse	W	W	
Railroad ballast	W	W	
Unspecified graded coarse aggregate	23	258	11.29
Fine aggregate (-¾ inch):			
Stone sand, concrete	18	95	5.24
Stone sand, bituminous mix or seal	W	W	
Screening, undesignated	W	W	
Coarse and fine aggregates:			
Graded road base or subbase	78	774	9.97
Unpaved road surface	40	357	8.94
Chemical and metallurgical, cement manufacture	W	W	
Other miscellaneous uses and specified uses not listed	20	334	16.98
Unspecified:²			
Reported	1,890	13,800	7.30
Estimated	718	5,240	7.30
Total	3650	26600	7.29

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 5
 MAINE: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2010,
 BY MAJOR USE CATEGORY¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	501	\$2,810	\$5.61
Concrete products (blocks, bricks, pipe, decorative, etc.)	59	329	5.58
Asphaltic concrete aggregates and other bituminous mixtures	112	853	7.62
Road base and coverings ²	1,590	7,220	4.55
Fill	486	2,340	4.82
Snow and ice control	99	466	4.71
Other miscellaneous uses ³	46	518	11.26
Unspecified:⁴			
Reported	516	3,850	7.46
Estimated	4,440	26,700	6.01
Total or average	7,970	45,900	5.75

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

²Includes road and other stabilization (cement).

³Includes railroad ballast.

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

TABLE 6
 MAINE: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2011,
 BY MAJOR USE CATEGORY¹

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand) ²	469	\$2,390	\$5.10
Concrete products (blocks, bricks, pipe, decorative, etc.)	2	12	6.00
Asphaltic concrete aggregates and other bituminous mixtures	568	4,550	8.01
Road base and coverings ³	1,630	12,100	7.42
Fill	596	2,590	4.35
Snow and ice control	146	822	5.63
Other miscellaneous uses ⁴	87	616	7.08
Unspecified: ⁵			
Reported	589	4,490	7.62
Estimated	3,900	25,900	6.64
Total or average	7,990	53,500	6.70

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 and lime).

⁴Includes filtration and railroad ballast.

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