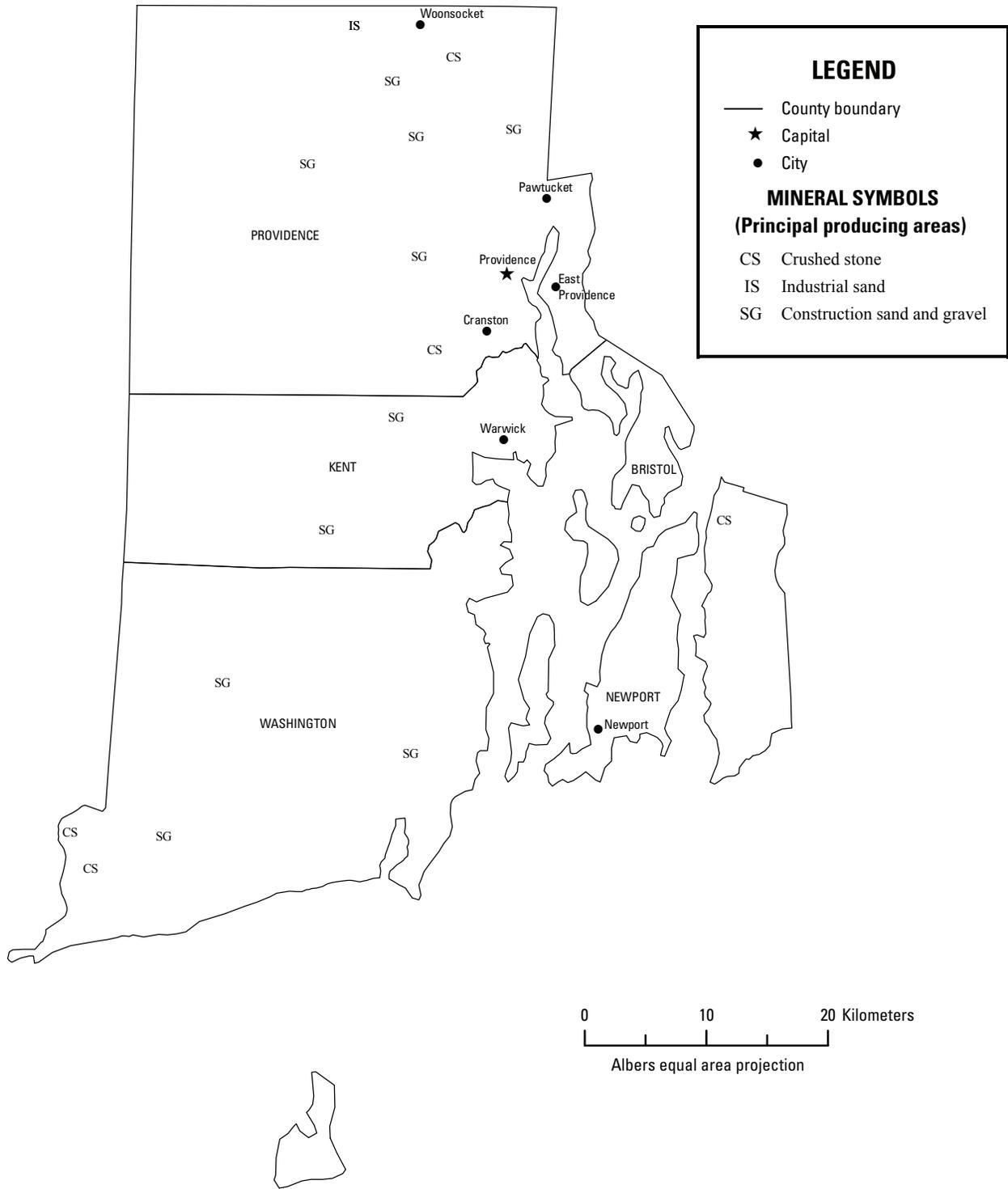




2010–2011 Minerals Yearbook

RHODE ISLAND [ADVANCE RELEASE]

RHODE ISLAND



THE MINERAL INDUSTRY OF RHODE ISLAND

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

In 2011, Rhode Island's nonfuel mineral production¹ was valued at \$42.2 million, based upon annual U.S. Geological Survey data. This was a \$9.9 million (31%) increase from the State's total nonfuel mineral value of \$32.3 million in 2010, which had decreased by \$11.8 million (27%) from a total of \$44.1 million in 2009. Because data for industrial sand and gravel have been withheld to avoid disclosing company proprietary data, the State's actual total nonfuel mineral production values for these years are higher than those reported in table 1. For the third consecutive year, the State remained ranked 49th out of the 50 States in 2011 for total nonfuel mineral production value, accounting for less than one-tenth of 1% of the U.S. total. On a per capita basis, the State ranked 47th in the Nation, with a value of \$40, well below the national average of \$240.

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>.

Construction sand and gravel and crushed stone were Rhode Island's leading nonfuel mineral commodities by production quantity and value in 2011, and accounted for 62% and 38% of the State's reportable total value, respectively. In 2011, construction sand and gravel increased in production value by \$8.2 million (46%) and in production quantity by 504,000 metric tons (t) (33%). These gains were greater than losses in 2010 of \$6.2 million (26%) and 366,000 t (20%). Crushed stone increased in production value in 2011 by \$1.7 million (12%) and in production quantity by 147,000 t (11%). With decreases in 2010 of \$5.7 million (28%) and 441,000 t (25%), however, production quantity and value finished 2011 at lower levels than 2009. Industrial sand and gravel decreased slightly in production quantity and value in 2011 after increasing in production value by more than 40%, even as production quantity decreased slightly in 2010 (data withheld—company proprietary data).

In 2011, almost 29% of all construction sand and gravel produced in the State was used as asphaltic concrete aggregates and road-base materials, up slightly from 27% in 2009. This is the largest known major use category by value and accounts for 15% of the State's total nonfuel mineral production value. The next largest known major use category by production quantity and value for construction sand and gravel was for nonasphaltic concrete aggregates, including concrete sand, accounting for 12% of the State's total nonfuel mineral production value.

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

(Thousand metric tons and thousand dollars)

Mineral	2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value
Gemstones, natural	NA	I	NA	I	NA	I
Sand and gravel:						
Construction	1,880 ^r	24,000 ^r	1,510	17,800	2,010	26,000
Industrial	W	W	W	W	W	W
Stone, crushed	1,820	20,200	1,380	14,500	1,520	16,200
Total	XX	44,100 ^r	XX	32,300	XX	42,200

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

TABLE 2
RHODE ISLAND: 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 ^r (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value
Granite	2 ^r	838 ^r	\$10,200 ^r	\$12.17	3	533	\$5,630	\$10.57	3	746	\$7,940	\$10.64
Traprock	2 ^r	848 ^r	8,550 ^r	10.09	2	711	7,480	10.52	2	656	6,950	10.59
Miscellaneous stone	2 ^r	133 ^r	1,420 ^r	10.66	1	133	1,400	10.52	1	122	1,300	10.59
Total or average	XX	1,820 ^r	20,200 ^r	11.09	XX	1,380	14,500	10.54	XX	1,520	16,200	10.62

^rRevised. XX Not applicable.

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

TABLE 3
RHODE ISLAND: CRUSHED STONE SOLD OR USED BY PRODUCERS
IN 2010, 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	W	W
Coarse aggregate, other graded coarse aggregate	W	W
Fine aggregate (-¾ inch), other fine aggregate	W	W
Coarse and fine aggregates, graded road base or subbase	W	W
Unspecified: ²		
Reported	--	--
Estimated	848	9,540
Total	1,380	14,500

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.

²Reported and estimated production without a breakdown by end use.

TABLE 4
RHODE ISLAND: CRUSHED STONE SOLD OR USED BY PRODUCERS
IN 2011, BY USE¹

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
.	W	W
Coarse aggregate, graded, concrete aggregate, coarse	W	W
Fine aggregate (-3/8 inch), screening, undesignated	W	W
Coarse and fine aggregates, crusher run or fill or waste	W	W
Unspecified: ²		
Reported	444	4,700
Estimated	1,050	11,100
Total	1,520	16,200

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

¹Data are rounded to no more than three significant digits.

²Reported and estimated production without a breakdown by end use.

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

Use	Quantity (thousand metric tons)	Value (thousands)
Concrete aggregate (including concrete sand) ²	274	\$3,330
Asphaltic concrete aggregates and road base materials	422	5,280
Other miscellaneous uses ³	113	1,050
Unspecified: ⁴		
Reported	13	36
Estimated	628	7,450
Total or average	1,510	17,800

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 fill, and snow and ice control.

⁴Estimated production without a breakdown by end use.

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

Use	Quantity (thousand metric tons)	Value (thousands)
Concrete aggregate and concrete products ²	356	\$5,290
Asphaltic concrete aggregates and road base materials	529	6,460
Other miscellaneous uses ³	101	917
Unspecified: ⁴		
Reported	92	1,280
Estimated	935	12,100
Total or average	2,010	26,000

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 fill, and snow and ice control.

⁴Estimated production without a breakdown by end use.