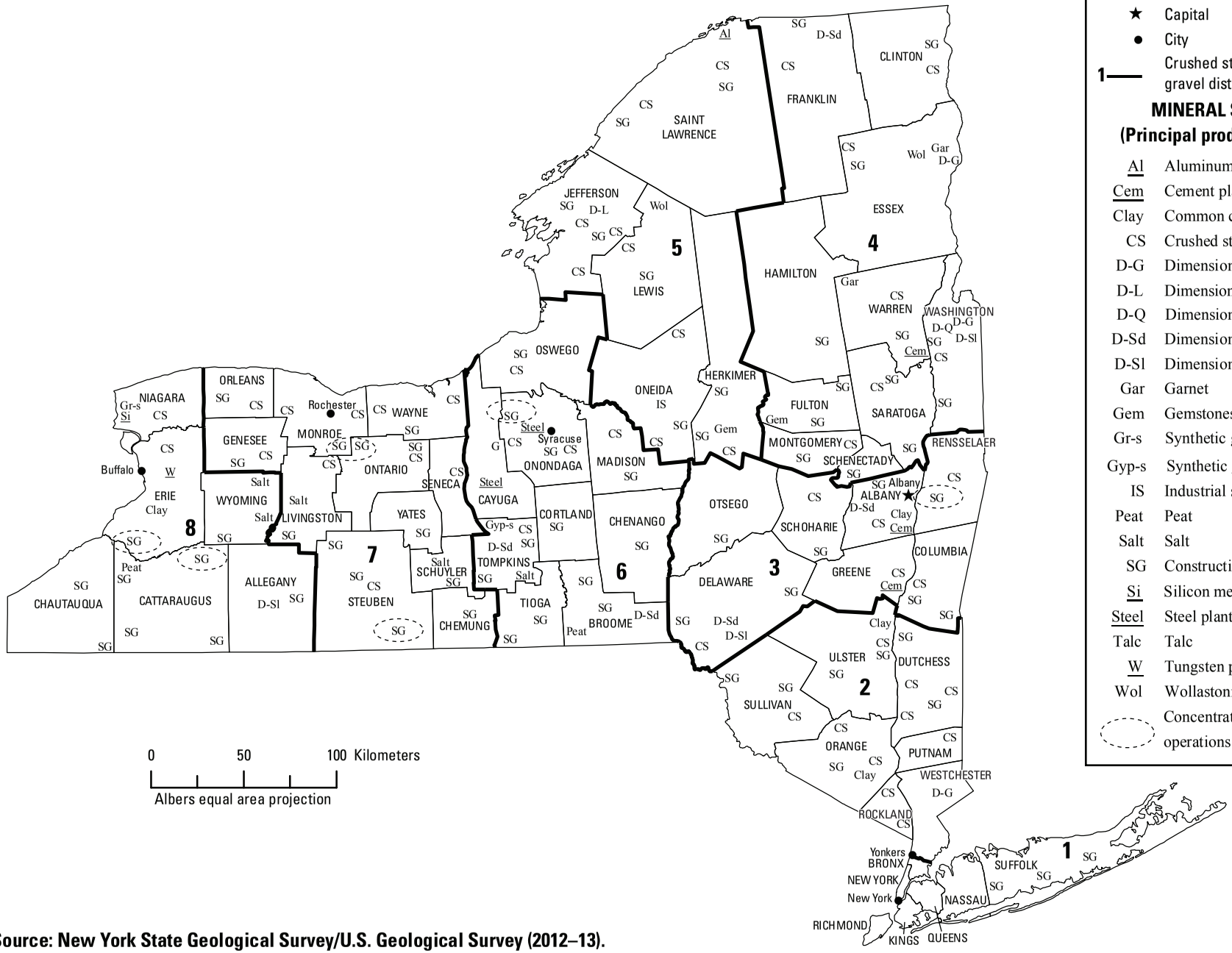
2012–2013 Minerals Yearbook

NEW YORK [ADVANCE RELEASE]

U.S. Department of the Interior
U.S. Geological Survey

October 2016

NEW YORK



LEGEND

- County boundary
- ★ Capital
- ● City
- 1 Crushed stone/sand and gravel district boundary

MINERAL SYMBOLS
(Principal producing areas)

Al	Aluminum plant
Cem	Cement plant
Clay	Common clay
CS	Crushed stone
D-G	Dimension granite
D-L	Dimension limestone
D-Q	Dimension quartzite
D-Sd	Dimension sandstone
D-Sl	Dimension slate
Gar	Garnet
Gem	Gemstones
Gr-s	Synthetic graphite
Gyp-s	Synthetic gypsum
IS	Industrial sand
Peat	Peat
Salt	Salt
SG	Construction sand and gravel
Si	Silicon metal plant
Steel	Steel plant
Talc	Talc
W	Tungsten plant
Wol	Wollastonite
⬭	Concentration of mineral operations

Source: New York State Geological Survey/U.S. Geological Survey (2012–13).

The Mineral Industry of New York

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

In 2013, the value of the nonfuel mineral production[1] in the State of New York increased to $1.39 billion, 1.8% of the total U.S. nonfuel mineral production, ranking it 17th in the Nation. In 2012, the corresponding value was $1.24 billion, 1.7% of the U.S. total nonfuel mineral production, again ranking it 17th among the 50 States. In 2013, on a per capita basis, nonfuel mineral production in New York had a value of $70 compared with the national average of $238. In 2012, the per capita value was $64 compared with the national average of $241.

The value of nonfuel mineral production in New York for the years 2006 through 2013 was as follows (in billions of dollars): $1.34 (2006), $1.55 (2007), $1.47 (2008), $1.39 (2009), $1.32 (2010), $1.32(2011), $1.24 (2012), and $1.39 (2013).

In 2013, there were 2,516 employees in nonfuel mineral mines in New York and 851 in mills and preparation plants. In 2012, the corresponding numbers were 2,521 in nonfuel mineral mines and 890 in mills and preparation plants (U.S. Mine Safety and Health Administration, 2013, p. 13; 2014, p. 13). In 2013, the average annual wage in New York for all mining was $56,143 compared with $64,197 for all industries. In 2012, the corresponding figures were $53,955 and $63,913, respectively (National Mining Association, unpub. data, February 4, 2016).

In 2013 and 2012, salt continued to be New York's leading mineral commodity on the basis of production value, followed by crushed stone and construction sand and gravel. In production quantity, New York ranked first in industrial garnet out of three producing States in 2012, and out of two producing States in 2013. New York remained the sole producer of wollastonite, and ranked third in salt among the 16 producing States. Other nonfuel mineral commodities produced in the State included cement, common clay, dimension stone, gemstones, industrial sand, and peat (table 1).

Production data for several commodities were withheld at the State level to protect company proprietary data, but could be aggregated with those of other States. Four plants in New York and Maine produced masonry and portland cement. Masonry cement production in those States decreased 42% from 2012 to 2013, and portland cement production decreased 14%. Nationally, masonry cement production increased by almost 10% in this time period while portland cement increased by about 3%.

In 2013, production at six peat operations in Maine, New Jersey, New York, and Pennsylvania was 50% less than in 2012 when there were eight operations. Nationally, production decreased almost 5% from 2012. Eight industrial sand and gravel operations in New Jersey, New York, and Pennsylvania produced 1.55 Mt in 2013, an increase of 14% from that produced at seven operations in 2012. Nationally, production increased almost 23% from 2012.

Commodity Review

In 2013, New York had 1,983 active mines, a decrease of 40 mines from 2012; the most prevalent were sand and gravel (1,578 pits) and crushed stone (161 quarries). In 2012, there were 1,645 sand and gravel pits and 165 crushed stone quarries. A total of 19,078 hectares were affected by mining in 2013, out of a total approved life-of-mine area of 50,645 hectares. About 521 hectares were reclaimed in 2013, bringing the cumulative total to 14,424 hectares. In 2012, 18,856 hectares were affected by mining, out of a total approved life-of-mine area of 50,213 hectares, and 414 hectares were reclaimed. In 2013, 34 permits for new mines and 425 renewals or modifications were issued, for a total of 459 permits. In 2012, 46 permits for new mines and 382 renewals or modifications were issued, for a total of 428 permits. Sand and gravel mines were the most common type of newly permitted mines each year. Solution mining for brine production took place in two counties, Schuyler and Wyoming. In 2013, brine production was 7.34 billion liters valued at $100 million; in 2012, 7.23 billion liters were extracted after freshwater injection, with the value also estimated at $100 million (New York Department of Environmental Conservation, 2013, 2014).

References Cited

New York Department of Environmental Conservation, 2013, New York State oil, gas and mineral resources 2012: New York Department of Environmental Conservation, 68 p. (Accessed April 6, 2016, at http://www.dec.ny.gov/docs/materials_minerals_pdf/12anrpt.pdf.)

New York Department of Environmental Conservation, 2014, New York State oil, gas and mineral resources 2013: New York Department of Environmental Conservation, 71 p. (Accessed April 6, 2016, at http://www.dec.ny.gov/docs/materials_minerals_pdf/annualreport13.pdf.)

U.S. Mine Safety and Health Administration, [2013], Mine injury and worktime, quarterly, January–December 2012, Final, closeout edition, 33 p. (Accessed February 4, 2016, at http://arlweb.msha.gov/Stats/Part50/WQ/MasterFiles/MIWQ%20Master_20125.pdf.)

U.S. Mine Safety and Health Administration, [2014], Mine injury and worktime, quarterly, January–December 2013, Final, closeout edition, 34 p. (Accessed February 4, 2016, at http://arlweb.msha.gov/Stats/Part50/WQ/MasterFiles/MIWQ%20Master_20135.pdf.)

[1]The 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 February 2016. 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.

TABLE 1
NONFUEL MINERAL PRODUCTION IN NEW YORK[1, 2]

(Thousand metric tons and thousand dollars)

Mineral	2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value
Clays, common	388	16,900	425	19,000	519	22,100
Garnet, industrial[e]	22	3,380	18	3,130	20	3,380
Gemstones, natural	NA	98	NA	98	NA	99
Peat	2	W	(3)	W	W	W
Salt	6,520	452,000	4,800	383,000	7,410	580,000
Sand and gravel, construction	30,300	257,000	28,900	254,000	28,900	254,000
Stone:						
Crushed	35,400 r	392,000 r	35,200	376,000	34,600	353,000
Dimension	99	17,800	99	18,400	120	17,300
Combined values of cement, sand and gravel (industrial), wollastonite, and values indicated by symbol W	XX	178,000 r	XX	187,000	XX	156,000
Total	XX	1,320,000 r	XX	1,240,000	XX	1,390,000

[e]Estimated. [r]Revised. NA Not available. W Withheld to avoid disclosing company proprietary data; included in "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.
[3]Less than ½ unit.

TABLE 2
NEW YORK: CRUSHED STONE SOLD OR USED IN THE UNITED STATES, BY TYPE[1]

Type	2012				2013			
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value
Limestone[2]	60	19,400	$198,000	$10.23	64	22,800	$226,000	$9.91
Dolomite	17	7,850	83,400	10.62	14	5,540	58,100	10.49
Marble	1	31	342	11.02	1	22	219	10.05
Granite	8	1,690	21,900	12.91	6	1,350	15,800	11.69
Traprock	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Sandstone and quartzite[4]	14	1,700	16,900	9.99	13	1,490	14,200	9.54
Slate	1	8	72	8.91	1	10	104	10.05
Miscellaneous stone	13	4,600	54,900	11.95	11	3,400	38,800	11.41
Total or average	XX	35,200	376,000	10.66	XX	34,600	353,000	10.20

XX Not applicable.
[1]Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.
[2]Includes limestone-dolomite reported with no distinction between the two kinds of stone.
[3]Withheld to avoid disclosing company proprietary data; included with "Miscellaneous stone."
[4]Includes sandstone-quartzite reported with no distinction between the two kinds of stone.

TABLE 3
NEW YORK: CRUSHED STONE SOLD OR USED BY PRODUCERS BY USE[1]

Use	2012 Quantity (thousand metric tons)	2012 Value (thousands)	2012 Unit value	2013 Quantity (thousand metric tons)	2013 Value (thousands)	2013 Unit value
Construction:						
Coarse aggregate (+1½ inch):						
Macadam	W	W	W	W	W	W
Riprap and jetty stone	199	$2,830	$14.24	368	$5,450	$14.80
Filter stone	56	768	13.72	43	532	12.25
Unspecified coarse aggregate	207	2,010	9.72	206	2,380	11.52
Coarse aggregate, graded:						
Concrete aggregate, coarse	1,850	19,600	10.62	2,510	26,600	10.60
Bituminous aggregate, coarse	1,540	18,100	11.77	2,000	19,900	9.93
Bituminous surface-treatment aggregate	341	5,630	16.52	496	7,630	15.40
Railroad ballast	W	W	W	W	W	W
Unspecified graded coarse aggregate	1,690	15,500	9.17	2,100	22,000	10.46
Fine aggregate (-⅜ inch):						
Stone sand, concrete	37	477	12.88	148	2,550	17.27
Stone sand, bituminous mix or seal	581	9,200	15.84	744	7,500	10.08
Screening, undesignated	401	3,730	9.30	458	3,990	8.72
Unspecified fine aggregate	1,950	15,700	8.03	2,550	27,400	10.72
Coarse and fine aggregates:						
Graded road base or subbase	1,550	15,600	10.07	1,410	13,700	9.73
Unpaved road surface	W	W	W	49	673	13.78
Crusher run or fill or waste	3,350	27,300	8.15	2,550	21,500	8.43
Roofing granules	W	W	W	5	90	19.84
Unspecified coarse and fine aggregates	972	6,760	6.95	2,260	17,500	7.75
Unspecified and other construction materials	127	1,400	11.02	535	6,170	11.52
Agricultural:						
Agricultural Limestone	1,700	18,500	10.85	121	1,180	9.76
Special:						
Other fillers or extenders	--	--	--	32	70	2.20
Other miscellaneous uses and specified uses not listed	1	53	53.01	14	173	11.91
Unspecified:[2]						
Reported	7,650	88,100	11.51	5,860	62,500	10.67
Estimated	10,900	123,000	11.30	10,000	102,000	10.19
Total or average	35,200	376,000	10.66	34,600	353,000	10.20

W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.
[1]Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.
[2]Reported and estimated production without a breakdown by end use.

TABLE 4

NEW YORK: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2012, 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 (+1½ inch)[2]	--	--	152	1,990	124	1,730
Coarse aggregate, graded[3]	--	--	W	W	W	W
Fine aggregate (-⅜ inch)[4]	--	--	W	W	W	W
Coarse and fine aggregates[5]	--	--	723	6,970	725	6,290
Other construction materials	--	--	--	--	95	1,100
Agricultural[6]	--	--	W	W	--	--
Chemical and metallurgical	--	--	--	--	--	--
Special	--	--	--	--	--	--
Other miscellaneous uses and specified uses not listed[7]	--	--	--	--	--	--
Unspecified:[8]						
Reported	--	--	2,350	29,600	--	--
Estimated	--	--	1,770	24,700	1,360	14,900
Total	--	--	8,540	103,000	3,400	35,100

Use	District 4		District 5		District 6	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1½ inch)[2]	87	869	64	731	W	W
Coarse aggregate, graded[3]	W	W	W	W	W	W
Fine aggregate (-⅜ inch)[4]	367	2,900	W	W	W	W
Coarse and fine aggregates[5]	1,010	72,900	1,110	9,080	W	W
Other construction materials	9	109	--	--	--	--
Agricultural[6]	56	273	--	--	--	--
Chemical and metallurgical	--	--	--	--	--	--
Special	--	--	--	--	--	--
Other miscellaneous uses and specified uses not listed[7]	1	34	W	W	--	--
Unspecified:[8]						
Reported	209	2,310	1,660	18,300	1,320	14,500
Estimated	2,240	24,900	926	10,800	1,510	16,700
Total	4,970	48,200	4,150	44,800	3,120	32,600

Use	District 7		District 8	
	Quantity	Value	Quantity	Value
Construction:				
Coarse aggregate (+1½ inch)[2]	W	W	--	--
Coarse aggregate, graded[3]	W	W	W	W
Fine aggregate (-⅜ inch)[4]	W	W	W	W
Coarse and fine aggregates[5]	W	W	W	W
Other construction materials	22	189	--	--
Agricultural[6]	W	W	W	W
Chemical and metallurgical	--	--	--	--
Special	--	--	--	--
Other miscellaneous uses and specified uses not listed[7]	--	--	--	--
Unspecified:[8]				
Reported	2,120	23,300	--	--
Estimated	1,170	12,900	1,910	17,900
Total	5,540	57,000	5,530	55,100

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 macadam, riprap and jetty stone, filter stone, unspecified other coarse aggregate.

[3]Includes concrete aggregate (coarse), bituminous aggregate (coarse), bituminous surface-treatment aggregate, railroad ballast, and unspecified graded coarse aggregate.

[4]Includes stone sand (concrete), stone sand (bituminous mix or seal), screening (undesignated), and unspecified fine aggregate.

[5]Includes graded road base or subbase, unpaved road surface, terrazzo and exposed aggregate, crusher run, roofing granules, and unspecified coarse and fine aggregates.

[6]Includes agricultural limestone, poultry grit and mineral food, and other agricultural uses.

[7]Includes drain fields, waste material, lightweight aggregate (slate), pipe bedding, refractory stone (including ganister), and other miscellaneous uses.

[8]Reported and estimated production without a breakdown by end use.

TABLE 5

NEW YORK: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2013, 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 (+1½ inch)[2]	--	--	256	3,660	102	1,640
Coarse aggregate, graded[3]	--	--	W	W	812	8,310
Fine aggregate (-⅜ inch)[4]	--	--	W	W	334	2,910
Coarse and fine aggregates[5]	--	--	949	9,650	514	4,380
Other construction materials	--	--	159	2,010	354	3,750
Agricultural[6]	--	--	W	W	--	--
Chemical and metallurgical	--	--	--	--	--	--
Special[7]	--	--	32	70	--	--
Other miscellaneous uses and specified uses not listed[8]	--	--	--	--	11	139
Unspecified:[9]						
Reported	--	--	520	5,550	--	--
Estimated	--	--	373	3,750	867	8,720
Total	--	--	8,410	95,400	2,990	29,800

Use	District 4		District 5		District 6	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1½ inch)[2]	226	2,660	W	W	W	W
Coarse aggregate, graded[3]	910	8,530	W	W	W	W
Fine aggregate (-⅜ inch)[4]	247	2,430	W	W	W	W
Coarse and fine aggregates[5]	936	8,350	490	3,320	W	W
Other construction materials	W	W	14	285	--	--
Agricultural[6]	W	W	39	499	--	--
Chemical and metallurgical	--	--	--	--	--	--
Special[7]	--	--	--	--	--	--
Other miscellaneous uses and specified uses not listed[8]	--	--	W	W	--	--
Unspecified:[9]						
Reported	175	1,870	1,580	16,800	1,300	13,800
Estimated	1,870	18,800	1,100	12,500	1,420	14,300
Total	4,400	42,800	3,810	37,800	3,070	29,900

Use	District 7		District 8	
	Quantity	Value	Quantity	Value
Construction:				
Coarse aggregate (+1½ inch)[2]	W	W	3	31
Coarse aggregate, graded[3]	W	W	W	W
Fine aggregate (-⅜ inch)[4]	W	W	W	W
Coarse and fine aggregates[5]	W	W	W	W
Other construction materials	8	92	--	--
Agricultural[6]	W	W	--	--
Chemical and metallurgical	--	--	--	--
Special[7]	--	--	--	--
Other miscellaneous uses and specified uses not listed[8]	3	33	--	--
Unspecified:[9]				
Reported	2,290	24,400	--	--
Estimated	789	7,930	3,610	36,300
Total	5,510	55,900	6,410	61,300

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 macadam, riprap and jetty stone, filter stone, and unspecified coarse aggregate.

[3]Includes concrete aggregate (coarse), bituminous aggregate (coarse), bituminous surface-treatment aggregate, railroad ballast, and unspecified graded coarse aggregate.

[4]Includes stone sand (concrete), stone sand (bituminous mix or seal), screening (undesignated), and unspecified fine aggregate.

[5]Includes graded road base or subbase, unpaved road surface, terrazzo and exposed aggregate, crusher run, roofing granules, and unspecified graded coarse aggregate.

[6]Includes agricultural limestone, poultry grit and mineral food, and other agricultural uses.

[7]Includes asphalt fillers or extenders, whiting or whitening substance, and other fillers or extenders.

[8]Includes drain fields, waste material, lightweight aggregate (slate), pipe bedding, refractory stone (including ganister), and other miscellaneous uses.

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

TABLE 6
NEW YORK: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2012,
BY MAJOR USE CATEGORY[1]

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	3,240	$35,100	$10.83
Plaster and gunite sands	328	3,060	9.33
Concrete products (blocks, bricks, pipe, decorative, and so forth)	32	207	6.47
Asphaltic concrete aggregates and other bituminous mixtures	1,270	11,800	9.29
Road base and coverings[2]	3,360	23,900	7.11
Fill	1,180	6,650	5.64
Snow and ice control	1,030	6,800	6.60
Railroad ballast	7	69	9.86
Filtration	18	98	5.44
Other miscellaneous uses	223	1,730	7.76
Unspecified:[3]			
Reported	2,680	28,900	10.78
Estimated	15,500	136,000	8.77
Total or average	28,900	254,000	8.79

[1]Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.
[2]Includes road and other stabilization (cement and lime).
[3]Reported and estimated production without a breakdown by end use.

TABLE 7
NEW YORK: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2013,
BY MAJOR USE CATEGORY[1]

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	2,580	$26,900	$10.41
Plaster and gunite sands	113	1,310	11.60
Concrete products (blocks, bricks, pipe, decorative, and so forth)	26	194	7.46
Asphaltic concrete aggregates and other bituminous mixtures	1,290	12,000	9.30
Road base and coverings	2,900	21,400	7.39
Road and other stabilization (cement)	64	134	2.09
Fill	1,070	5,320	4.99
Snow and ice control	961	6,420	6.68
Other miscellaneous uses[2]	714	6,290	8.82
Unspecified:[3]			
Reported	1,740	21,300	12.21
Estimated	17,400	153,000	8.81
Total or average	28,900	254,000	8.82

[1]Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.
[2]Includes filtration and railroad ballast.
[3]Reported and estimated production without a breakdown by end use.

TABLE 8
NEW YORK: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2012,
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 aggregates and concrete products[2]	W	W	W	W	471	4,180
Asphaltic concrete aggregates and road base materials[3]	W	W	W	W	1,180	8,920
Fill	70	1,080	182	1,130	284	1,190
Snow and ice control	(4)	1	148	1,710	189	1,130
Other miscellaneous uses[5]	--	--	12	173	16	84
Unspecified:[6]						
Reported	1,070	14,400	103	946	8	64
Estimated	538	4,710	1,480	13,900	881	7,690
Total	2,650	33,900	2,370	24,300	3,030	23,300

Use	District 4		District 5		District 6	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregates and concrete products[2]	214	1,570	284	2,060	880	9,250
Asphaltic concrete aggregates and road base materials[3]	254	1,780	421	2,800	994	6,670
Fill	144	650	112	532	196	1,060
Snow and ice control	48	202	125	694	277	1,480
Other miscellaneous uses[5]	44	227	18	97	28	171
Unspecified:[6]						
Reported	2	24	124	1,430	283	2,200
Estimated	1,580	13,800	555	4,840	3,280	28,700
Total	2,290	18,300	1,640	12,500	5,940	49,500

Use	District 7		District 8	
	Quantity	Value	Quantity	Value
Concrete aggregates and concrete products[2]	426	3,780	230	1,790
Asphaltic concrete aggregates and road base materials[3]	742	5,720	717	5,470
Fill	103	468	91	537
Snow and ice control	142	764	99	816
Other miscellaneous uses[5]	130	1,140	--	--
Unspecified:[6]				
Reported	908	8,110	188	1,750
Estimated	2,990	25,500	4,190	36,600
Total	5,440	45,500	5,510	46,900

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 plaster and gunite sands.
[3]Includes road and other stabilization (cement and lime).
[4]Less than ½ unit.
[5]Includes filtration and railroad ballast.
[6]Reported and estimated production without a breakdown by end use.

TABLE 9
NEW YORK: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2013,
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 aggregates and concrete products[2]	W	W	W	W	489	4,060
Asphaltic concrete aggregates and road base materials[3]	W	W	W	W	1,210	9,770
Fill	39	198	60	555	196	735
Snow and ice control	(4)	7	180	1,480	146	976
Other miscellaneous uses[5]	--	--	7	73	55	573
Unspecified:[6]						
Reported	1,010	14,200	9	169	--	--
Estimated	896	8,550	1,810	16,800	739	6,010
Total	2,700	32,200	2,580	27,300	2,840	22,100

Use	District 4		District 5		District 6	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregates and concrete products[2]	W	W	281	2,160	W	W
Asphaltic concrete aggregates and road base materials[3]	W	W	334	2,020	W	W
Fill	97	439	240	875	182	879
Snow and ice control	51	224	145	665	161	1,070
Other miscellaneous uses[5]	2	29	196	1,570	246	1,810
Unspecified:[6]						
Reported	3	47	1	8	14	47
Estimated	1,970	16,200	653	5,720	4,070	35,700
Total	2,500	19,300	1,850	13,000	5,290	44,800

Use	District 7		District 8	
	Quantity	Value	Quantity	Value
Concrete aggregates and concrete products[2]	298	2,950	265	2,470
Asphaltic concrete aggregates and road base materials[3]	783	6,090	881	6,140
Fill	60	281	191	1,360
Snow and ice control	177	1,120	101	875
Other miscellaneous uses[5]	190	1,500	178	1,810
Unspecified:[6]				
Reported	703	6,770	--	--
Estimated	3,060	27,300	4,200	37,100
Total	5,270	46,000	5,820	49,700

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 plaster and gunite sands.
[3]Includes road and other stabilization (cement).
[4]Less than ½ unit.
[5]Includes filtration and railroad ballast.
[6]Reported and estimated production without a breakdown by end use.