

THE MINERAL INDUSTRY OF NEBRASKA

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

In 1999, the preliminary estimated value¹ of nonfuel mineral production for Nebraska was \$96.4 million, according to the U.S. Geological Survey (USGS). Because data for portland and masonry cement and industrial sand and gravel for 1998 and 1999 have been withheld to protect company proprietary data, the actual total values are significantly higher for those years

¹The terms "nonfuel 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 1999 USGS mineral production data published in this chapter are preliminary estimates as of May 2000, 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. A telephone listing for the specialists may be retrieved over the Internet at URL <http://minerals.usgs.gov/minerals/contacts/comdir.html>, by using MINES FaxBack at (703) 648-4999 from a fax machine with a touch-tone handset (request Document #1000 for a telephone listing of all mineral commodity specialists), or by calling USGS information at (703) 648-4000 for the specialist's name and number. All Mineral Industry Surveys—mineral commodity, State, and country—also may be retrieved over the Internet at URL <http://minerals.usgs.gov/minerals>; facsimile copies may be obtained from MINES FaxBack.

than those reported in table 1.² The State's total nonfuel mineral production value showed an increase from 1997 to 1998 followed by a small decrease in 1999 from that of 1998. Nebraska's leading nonfuel minerals in descending order of value were portland cement, construction sand and gravel, and crushed stone, the latter two being of nearly equal value (table 1).

Decreases that occurred in the values of portland cement and crushed stone accounted for most of the drop in the State's total value in 1999. Construction and industrial sand and gravel and masonry cement showed small increases. In 1998, a rise in the value of portland cement plus a smaller increase in crushed stone were responsible for most of Nebraska's increase for the year. Metals produced in the State, mostly that of raw steel, were processed from materials acquired from other domestic and foreign sources. Uranium was in situ leach mined at one location in northwestern Nebraska but this information is not included in this publication because uranium is classified as an energy or fuel mineral.

²Values, percentage calculations, and rankings for 1998 may vary from the Minerals Yearbook, Area Reports: Domestic 1998, Volume II, owing to the revision of preliminary 1998 to final 1998 data. Data for 1999 are preliminary and are expected to change; related rankings may also be subject to change.

TABLE 1
NONFUEL RAW MINERAL PRODUCTION IN NEBRASKA 1/ 2/

(Thousand metric tons and thousand dollars)

Mineral	1997		1998		1999 p/	
	Quantity	Value	Quantity	Value	Quantity	Value
Clays: Common	189	675	134	345	135	342
Gemstones	NA	3	NA	3	NA	3
Lime	17	1,360	19	1,580	19	1,580
Sand and gravel: Construction	13,700	46,700	13,800	47,000	13,700	47,500
Stone: Crushed	6,900	46,000	7,490	49,800	6,900	47,100
Total 3/	XX	94,800	XX	98,700	XX	96,400

p/ Preliminary. NA Not available. 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/ Partial total, excludes values of cement (portland and masonry) and sand and gravel (industrial) that must be concealed to avoid disclosing company proprietary data.

TABLE 2
NEBRASKA: CRUSHED STONE SOLD OR USED, BY KIND 1/

Kind	1997				1998			
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Unit value
Limestone	11	6,900	\$46,000	\$6.67	11	7,490	\$49,800	\$6.65

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

TABLE 3
NEBRASKA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 1998,
BY USE 1/

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Coarse aggregate (+1 1/2 inch):			
Riprap and jetty stone	159	\$1,540	\$9.70
Filter stone	4	33	8.25
Other coarse aggregate	295	2,420	8.21
Total or average	458	4,000	8.73
Coarse aggregate, graded:			
Concrete aggregate, coarse	W	W	7.90
Bituminous aggregate, coarse	W	W	7.35
Railroad ballast	W	W	6.08
Total or average	1,180	9,030	7.63
Fine aggregate (-3/8 inch): Screening, undesignated	(2/)	(2/)	3.41
Coarse and fine aggregates:			
Graded road base or subbase	43	318	7.40
Unpaved road surfacing	477	4,020	8.43
Crusher run or fill or waste	514	3,820	7.43
Total or average	1,030	8,150	7.89
Agricultural:			
Agricultural limestone	560	4,770	13.85
Other agricultural uses	96	426	4.44
Total or average	656	5,190	7.91
Chemical and metallurgical:			
Cement manufacture	(2/)	(2/)	4.15
Flux stone	(2/)	(2/)	11.09
Special: Asphalt fillers or extenders	(2/)	(2/)	6.60
Other miscellaneous uses: Pipe bedding	66	438	6.64
Unspecified: 3/			
Actual	2,340	15,500	6.61
Estimated	148	895	6.05
Total or average	2,550	16,800	6.58
Grand total or average	7,490	49,800	6.65

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

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

2/ Withheld to avoid disclosing company proprietary data; included in "Grand total."

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

TABLE 4
NEBRASKA: CRUSHED STONE SOLD OR USED BY
PRODUCERS IN 1998, BY USE AND DISTRICT 1/ 2/

(Thousand metric tons and thousand dollars)

Use	District 3	
	Quantity	Value
Construction aggregates:		
Coarse aggregate (+1 1/2 inch) 3/	457	4,000
Coarse aggregate, graded 4/	1,180	9,030
Fine aggregate (-3/8 inch) 5/	W	W
Coarse and fine aggregate 6/	1,030	8,150
Other miscellaneous uses: Pipe bedding 7/	66	438
Agricultural 8/	655	5,190
Chemical and metallurgical 9/	W	W
Special 10/	W	W
Unspecified: 11/		
Actual	2,340	15,500
Estimated	147	895
Total	7,490	49,800

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

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

2/ No production reported in Districts 1 and 2.

3/ Includes filter stone, riprap and jetty stone, and other coarse aggregate.

4/ Includes bituminous aggregate (coarse), concrete aggregate (coarse), and railroad ballast.

5/ Includes screening (undesigned).

6/ Includes crusher run (select material or fill), graded roadbase or subbase, unpaved road surfacing.

7/ Includes pipe bedding.

8/ Includes agricultural limestone and other agricultural uses.

9/ Includes cement manufacture and flux stone.

10/ Includes asphalt fillers or extenders.

11/ Reported and estimated production without a breakdown by end use.

TABLE 5
NEBRASKA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 1998,
BY MAJOR USE CATEGORY 1/

Use	Quantity	Value	Unit
	(thousand metric tons)	(thousands)	value
Concrete aggregate	2,100	\$6,840	\$3.25
Plaster and gunité sands	74	256	3.46
Concrete products (blocks, bricks, pipe, decorative, etc.)	107	401	3.75
Asphaltic concrete aggregates and other bituminous mixtures	1,050	3,400	3.24
Road base and coverings 2/	2,400	7,430	3.10
Fill	893	1,600	1.79
Snow and ice control	80	273	3.41
Railroad ballast	65	217	3.34
Roofing granules	32	341	10.66
Other miscellaneous uses 3/	23	113	4.91
Unspecified: 4/			
Actual	1,230	4,180	3.40
Estimated	5,780	21,900	3.79
Total or average	13,800	47,000	3.40

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).

3/ Includes filtration.

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

TABLE 6
NEBRASKA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 1998,
BY USE AND DISTRICT 1/

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3		Unspecified districts 2/	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregate and concrete products	W	W	413	1,300	W	W	--	--
Plaster and gunite sands	W	W	16	44	W	W	--	--
Asphaltic concrete aggregates and road base materials 3/	1,240	3,080	1,550	4,790	653	2,960	--	--
Fill	287	393	297	720	308	483	--	--
Snow and ice control	W	W	38	137	W	W	--	--
Other miscellaneous uses 4/	22	73	71	229	28	368	--	--
Unspecified: 5/								
Actual	264	613	102	329	861	3,240	--	--
Estimated	481	1,500	2,540	8,700	2,720	11,600	46	168
Total	2,820	7,080	5,020	16,300	5,950	23,500	46	168

W Withheld to avoid disclosing company proprietary data; 0 included with "Other miscellaneous uses." -- Zero.

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

2/ Includes production within the State with no district

3/ Includes road and other stabilization (cement).

4/ Includes filtration, railroad ballast, and roofing granules.

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