



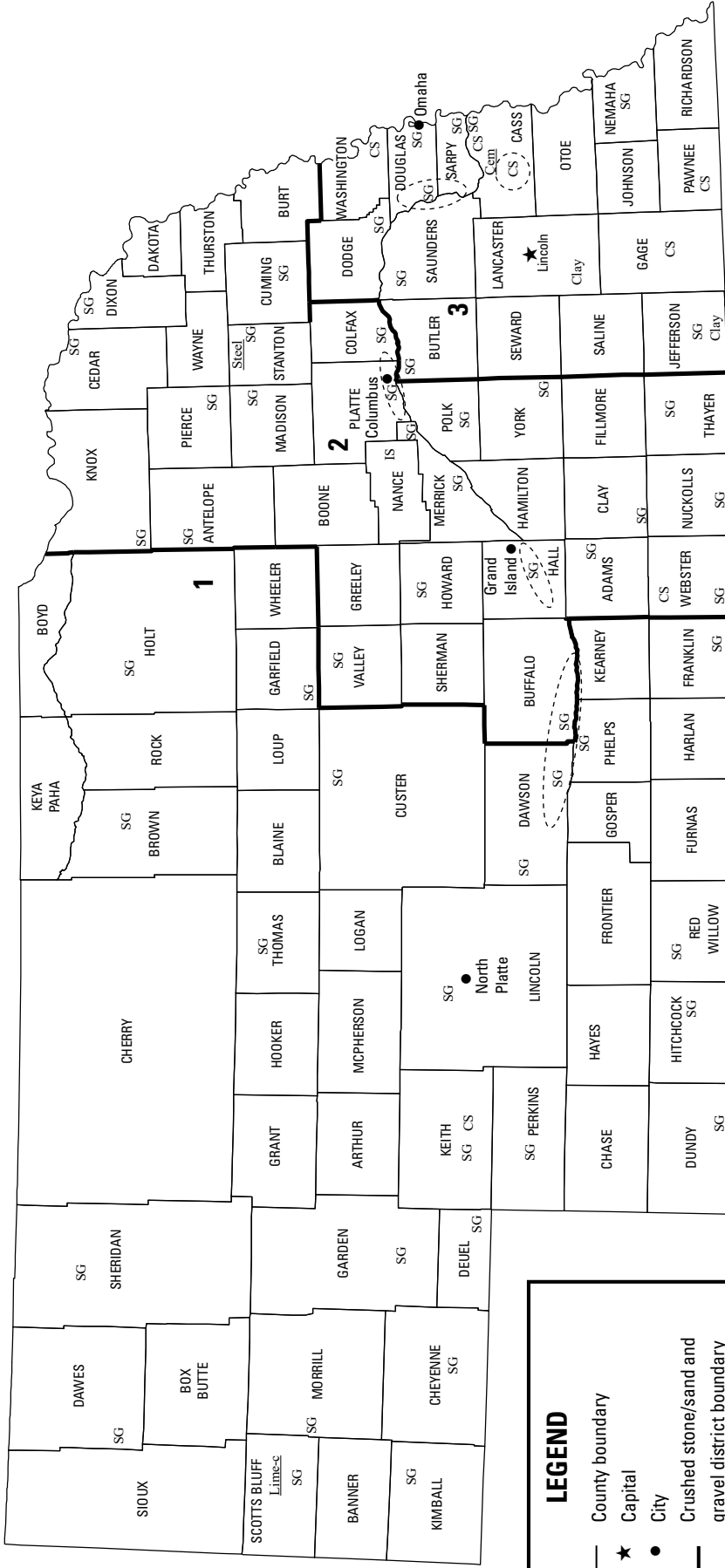
# 2010–2011 Minerals Yearbook

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## NEBRASKA

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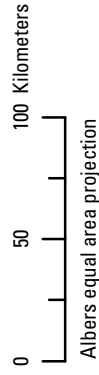


**LEGEND**

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

**MINERAL SYMBOLS**  
(Principal producing areas)

- Cem Cement plant
- Clay Common clay
- CS Crushed stone
- IS Industrial sand
- Lime-c Lime plant (captive)
- SG Construction sand and gravel
- Steel Steel plant
- Concentration of mineral operations



# THE MINERAL INDUSTRY OF NEBRASKA

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

In 2011, Nebraska's nonfuel mineral production<sup>1</sup> was valued at \$238 million, based upon annual U.S. Geological Survey (USGS) data. This was a 6% increase from the State's total nonfuel mineral production value of \$226 million in 2010, following a 9% decrease from 2009. Among the 50 States, Nebraska ranked 40th in total nonfuel mineral production value in 2010 and 2011, down slightly from 38th in 2009, and accounted for less than one-half of 1% of the total U.S. value in each year. On a per capita basis, the State ranked 27th in the Nation in nonfuel mineral production in 2011 with a value of \$129, almost half the national average of \$240.

The leading nonfuel commodities in Nebraska during 2011, by descending order of production value, were construction sand and gravel, crushed stone, industrial sand and gravel, portland cement, and lime. Crushed stone, lime, and industrial sand were the drivers of the State's increase in mineral value,

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<sup>1</sup>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 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>.

with a 13% increase in production value of crushed stone, an 18% increase in the production value of lime, and an even larger percent increase in production value of industrial sand (values withheld—company proprietary data). Prior to 2011, the production value of construction sand and gravel had increased each year from 2001 through 2010; however, in 2011, the production value decreased by \$2 million (2.7%). Despite this decrease, it remained the most significant commodity by production value in 2011. Portland cement, however, decreased in production value by more than 40%; in 2010, it had been the second most significant mineral commodity by production value, followed by crushed stone, industrial sand, and lime.

The remainder of the total nonfuel mineral production value consisted of common clay, gemstones, and masonry cement. Clay production quantity and production value decreased by about 3% in 2010 and by about 10% in 2011. Masonry cement had significant decreases in production quantity and production value in 2010 and was not produced in 2011.

Nebraska ranked 17th by quantity in the production of industrial sand and gravel in 2009, the 1st year that production took place in the State since 2004. It rose to 9th in industrial sand and gravel in 2010 before falling back to 15th in 2011. The State also ranked 19th in construction sand and gravel production and 22d in portland cement at the end of 2011, down from 21st and up from 24th, respectively, in both 2010 and 2009.

TABLE 1  
NONFUEL RAW MINERAL PRODUCTION IN NEBRASKA<sup>1,2</sup>  
(Thousand metric tons and thousand dollars)

Mineral	2009			2010			2011		
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
Gemstones, natural	NA	4	NA	4	NA	4	NA	4	
Sand and gravel, construction	12,900	75,600 <sup>r</sup>	12,600	80,000	12,900	77,900	12,900	77,900	
Stone, crushed	6,200 <sup>r</sup>	59,200 <sup>r</sup>	6,760	62,000	7,430	70,100	7,430	70,100	
Combined values of cement, clays (common), lime, and sand and gravel (industrial)	XX	113,000	XX	83,600	XX	90,300	XX	90,300	
Total	XX	248,000	XX	226,000	XX	238,000	XX	238,000	

<sup>r</sup>Revised. NA Not available. 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  
NEBRASKA: CRUSHED STONE SOLD OR USED IN THE UNITED STATES, BY TYPE<sup>1</sup>

Type	2009			2010			2011		
	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Number of quarries	Quantity (thousand metric tons)	Value (thousands)	Number of quarries	Quantity (thousand metric tons)	Value (thousands)
Limestone <sup>2</sup>	9	6,130	\$58,500	8	6,680	\$61,100	8	7,330	\$66,800
Sandstone and quartzite <sup>3</sup>	--	--	--	1	21	227	1	10	92
Miscellaneous stone	3 <sup>r</sup>	72 <sup>r</sup>	705 <sup>r</sup>	2	57	595	2	96	3,230
Total or average	XX	6,200 <sup>r</sup>	59,200 <sup>r</sup>	XX	6,760	62,000	XX	7,430	70,100
									9.43

<sup>r</sup>Revised. 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.

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

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

TABLE 3  
NEBRASKA: CRUSHED STONE SOLD OR USED BY PRODUCERS  
IN 2010, BY USE<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch):		
Riprap and jetty stone	W	W
Other coarse aggregate	21	265
Coarse aggregate, graded:		
Concrete aggregate, coarse	W	W
Bituminous aggregate, coarse	W	W
Fine aggregate (-¾ inch):		
Screening, undesignated	W	W
Other fine aggregate	1	13
Coarse and fine aggregates:		
Graded road base or subbase	W	W
Unpaved road surface	W	W
Crusher run or fill or waste	W	W
Agricultural:		
Agricultural, limestone	212	3,920
Other agricultural uses	W	W
Chemical and metallurgical, cement manufacture	W	W
Unspecified: <sup>2</sup>		
Reported	W	W
Estimated	145	1,510
Total <sup>3</sup>	6,760	62,000

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

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

<sup>2</sup>Reported and estimated production without a breakdown by end use.

TABLE 4  
NEBRASKA: CRUSHED STONE SOLD OR USED BY PRODUCERS  
IN 2011, BY USE<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	Quantity	Value
Construction:		
Coarse aggregate (+1½ inch):		
Riprap and jetty stone	W	W
Unspecified coarse aggregate	15	202
Coarse aggregate, graded:		
Concrete aggregate, coarse	W	W
Bituminous aggregate, coarse	W	W
Fine aggregate (-¾ inch), screening, undesignated	W	W
Coarse and fine aggregates:		
Graded road base or subbase	W	W
Unpaved road surface	222	5,160
Crusher run or fill or waste	W	W
Agricultural:		
Agricultural, limestone	223	4,110
Unspecified and other agricultural uses	W	W
Chemical and metallurgical, cement manufacture	W	W
Special, asphalt fillers or extenders	W	W
Unspecified: <sup>2</sup>		
Reported	3,680	39,300
Estimated	178	1,680
Total	7,430	70,100

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

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

<sup>2</sup>Reported and estimated production without a breakdown by end use.

TABLE 5  
NEBRASKA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2010, BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1½ inch) <sup>2</sup>	--	--	--	--	W	W
Coarse aggregate, graded <sup>3</sup>	--	--	--	--	W	W
Fine aggregate (-¾ inch) <sup>4</sup>	--	--	--	--	W	W
Coarse and fine aggregates <sup>5</sup>	--	--	--	--	325	4,060
Agricultural <sup>6</sup>	--	--	--	--	W	W
Chemical and metallurgical <sup>7</sup>	--	--	--	--	W	W
Unspecified: <sup>8</sup>						
Reported	--	--	--	--	4,160	43,100
Estimated	21	227	48	498	76	782
Total <sup>9</sup>	21	227	48	498	6,690	69,300

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

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

<sup>2</sup>Includes macadam, riprap and jetty stone, filter stone, and other coarse aggregates.

<sup>3</sup>Includes concrete aggregate (coarse), bituminous aggregate (coarse), bituminous surface-treatment aggregate, railroad ballast, and other graded coarse aggregates.

<sup>4</sup>Includes stone sand (concrete), stone sand (bituminous mix or seal), screening (undesignated), and other fine aggregates.

<sup>5</sup>Includes graded road base or subbase, unpaved road surface, terrazzo and exposed aggregate, crusher run, roofing granules, and other coarse and fine aggregates.

<sup>6</sup>Includes agricultural limestone, poultry grit and mineral food, and other agricultural uses.

<sup>7</sup>Includes cement manufacture, lime manufacture, dead-burned dolomite manufacture, flux stone, chemical stone, glass manufacture, and sulfur oxide removal.

<sup>8</sup>Reported and estimated production without a breakdown by end use.

<sup>9</sup>District totals may not add up to the published State total, owing to revisions made after the production of the table and (or) proprietary data being withheld.

TABLE 6  
NEBRASKA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2011, BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Construction:						
Coarse aggregate (+1½ inch) <sup>2</sup>	--	--	--	--	W	W
Coarse aggregate, graded <sup>3</sup>	--	--	--	--	W	W
Fine aggregate (-¾ inch) <sup>4</sup>	--	--	--	--	W	W
Coarse and fine aggregates <sup>5</sup>	--	--	--	--	264	5,690
Agricultural <sup>6</sup>	--	--	--	--	W	W
Chemical and metallurgical <sup>7</sup>	--	--	--	--	W	W
Special <sup>8</sup>	--	--	--	--	W	W
Unspecified: <sup>9</sup>						
Reported	--	--	--	--	3,680	39,300
Estimated	10	92	54	510	114	1,080
Total	10	92	54	510	7,370	69,500

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

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

<sup>2</sup>Includes macadam, riprap and jetty stone, filter stone, and other coarse aggregates.

<sup>3</sup>Includes concrete aggregate (coarse), bituminous aggregate (coarse), bituminous surface-treatment aggregate, railroad ballast, and other graded coarse aggregates.

<sup>4</sup>Includes stone sand (concrete), stone sand (bituminous mix or seal), screening (undesignated), and other fine aggregates.

<sup>5</sup>Includes graded road base or subbase, unpaved road surface, terrazzo and exposed aggregate, crusher run, roofing granules, and other coarse and fine aggregates.

<sup>6</sup>Includes agricultural limestone, poultry grit and mineral food, and other agricultural uses.

<sup>7</sup>Includes cement manufacture, lime manufacture, dead-burned dolomite manufacture, flux stone, chemical stone, glass manufacture, and sulfur oxide removal.

<sup>8</sup>Includes mine dusting or acid water treatment, whitening or whitening substance, and other fillers or extenders.

<sup>9</sup>Reported and estimated production without a breakdown by end use.

TABLE 7  
NEBRASKA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2010,  
BY MAJOR USE CATEGORY<sup>1</sup>

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	1,770	\$8,910	\$5.04
Concrete products (blocks, bricks, pipes, decorative, etc.) <sup>2</sup>	58	201	3.47
Asphaltic concrete aggregates and other bituminous mixtures	755	5,840	7.73
Road base and coverings <sup>3</sup>	2,130	13,500	6.35
Fill	466	1,880	4.04
Snow and ice control	49	290	5.92
Other miscellaneous uses <sup>4</sup>	21	385	18.33
Unspecified: <sup>5</sup>			
Reported	759	7,360	9.69
Estimated	6,530	41,500	6.36
Total or average	12,600	80,000	6.38

<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).

<sup>4</sup>Includes filtration.

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

TABLE 8  
NEBRASKA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2011,  
BY MAJOR USE CATEGORY<sup>1</sup>

Use	Quantity (thousand metric tons)	Value (thousands)	Unit value
Concrete aggregate (including concrete sand)	2,260	\$11,600	\$5.13
Concrete products (blocks, bricks, pipes, decorative, etc.) <sup>2</sup>	144	586	4.07
Asphaltic concrete aggregates and other bituminous mixtures	604	4,320	7.15
Road base and coverings <sup>3</sup>	2,060	12,400	6.02
Fill	401	1,060	2.64
Snow and ice control	83	424	5.11
Other miscellaneous uses <sup>4</sup>	32	480	15.00
Unspecified: <sup>5</sup>			
Reported	969	7,550	7.79
Estimated	6,350	39,500	6.22
Total or average	12,900	77,900	6.04

<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>Includes filtration.

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

TABLE 9  
NEBRASKA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2010, BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregate (including concrete sand)	366	1,410	675	3,570	W	W
Concrete products (blocks, bricks, pipes, decorative, etc.) <sup>2</sup>	W	W	W	W	W	W
Asphaltic concrete aggregates and road base materials <sup>3</sup>	387	2,690	1,460	10,700	244	2,230
Fill	145	324	298	1,490	24	74
Snow and ice control	W	W	W	W	2	14
Other miscellaneous uses <sup>4</sup>	3	8	13	275	4	102
Unspecified: <sup>5</sup>						
Reported	42	256	4	48	713	7,050
Estimated	1,600	10,200	2,840	22,800	2,090	8,540
Total <sup>6</sup>	3,370	18,700	5,320	34,300	3,850	26,800

W Withheld to avoid disclosing company proprietary data; included in "Other miscellaneous uses."

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

<sup>2</sup>Includes plaster and gunite sands.

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

<sup>4</sup>Includes filtration.

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

<sup>6</sup>District totals may not add up to the published State total, owing to revisions made after the production of the table and (or) proprietary data being withheld.

TABLE 10  
NEBRASKA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2011, BY USE AND DISTRICT<sup>1</sup>

(Thousand metric tons and thousand dollars)

Use	District 1		District 2		District 3	
	Quantity	Value	Quantity	Value	Quantity	Value
Concrete aggregate (including concrete sand)	490	2,140	856	4,340	W	W
Concrete products (blocks, bricks, pipes, decorative, etc.) <sup>2</sup>	W	W	W	W	W	W
Asphaltic concrete aggregates and road base materials <sup>3</sup>	1,120	5,200	1,280	9,140	266	2,350
Fill	112	259	266	731	23	73
Snow and ice control	W	W	W	W	1	13
Other miscellaneous uses <sup>4</sup>	11	34	17	356	4	91
Unspecified: <sup>5</sup>						
Reported	60	480	8	74	901	6,990
Estimated	1,310	8,120	3,120	19,500	1,920	11,900
Total	3,160	16,500	5,590	34,300	4,160	27,100

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

<sup>1</sup>Data are rounded to no more than three significant digits; 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>Includes filtration.

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