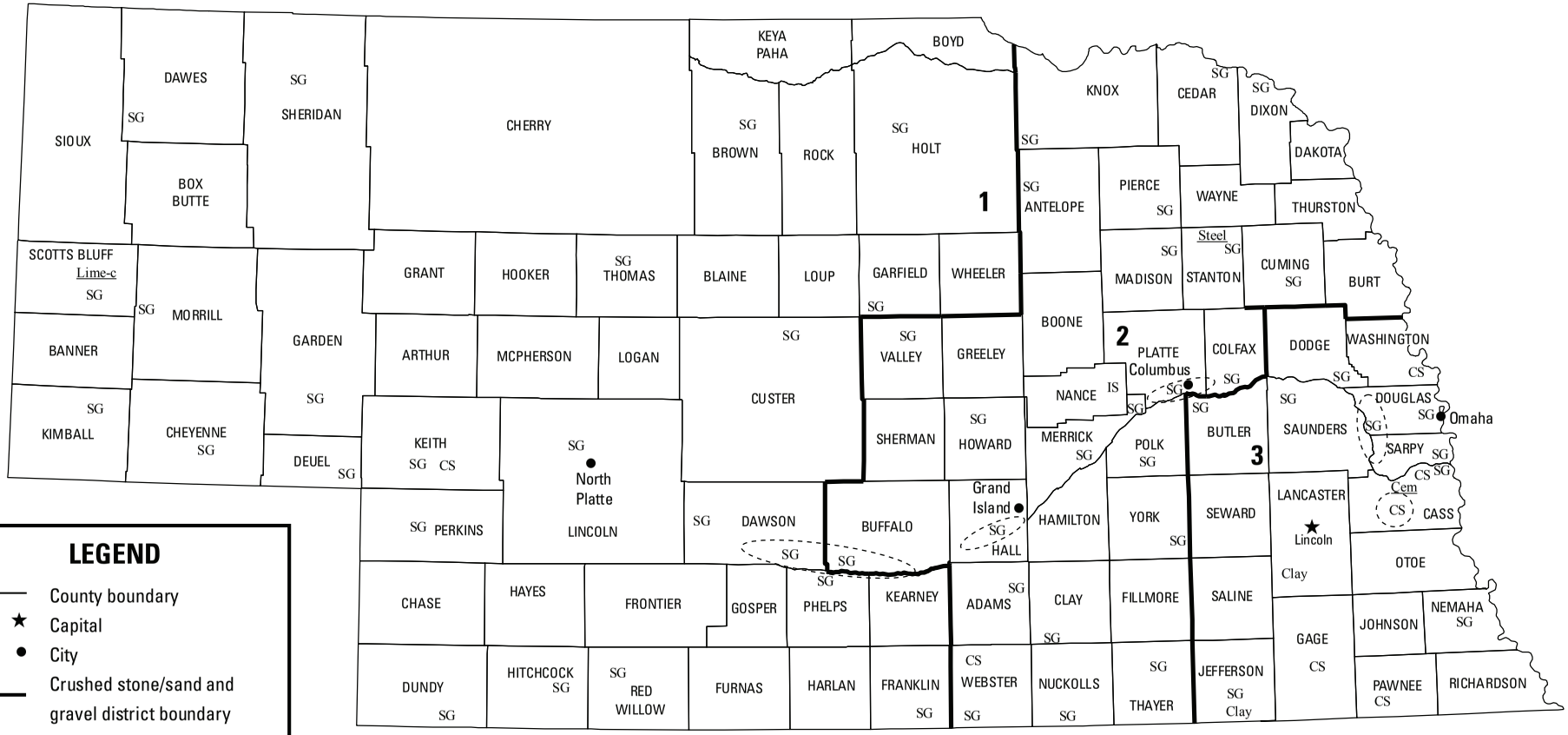
# 2010–2011 Minerals Yearbook

## NEBRASKA [ADVANCE RELEASE]

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

June 2015

# NEBRASKA




## 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 |
| (dashed oval) | Concentration of mineral operations |

**Source: University of Nebraska-Lincoln, Nebraska Geological Survey/U.S. Geological Survey (2010–11).**

# 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[1] 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, 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.

[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 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.

TABLE 1

NONFUEL RAW MINERAL PRODUCTION IN NEBRASKA[1, 2]

(Thousand metric tons and thousand dollars)

| Mineral | 2009 | | 2010 | | 2011 | |
|---|---|---|---|---|---|---|
| | Quantity | Value | Quantity | Value | Quantity | Value |
| Gemstones, natural | NA | 4 | NA | 4 | NA | 4 |
| Sand and gravel, construction | 12,900 | 75,600 r | 12,600 | 80,000 | 12,900 | 77,900 |
| Stone, crushed | 6,200 r | 59,200 r | 6,760 | 62,000 | 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 |
| Total | XX | 248,000 | XX | 226,000 | XX | 238,000 |

[r]Revised. 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.

TABLE 2

NEBRASKA: CRUSHED STONE SOLD OR USED IN THE UNITED STATES, BY TYPE[1]

| 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] | 9 | 6,130 | $58,500 | $9.54 | 8 | 6,680 | $61,100 | $9.15 | 8 | 7,330 | $66,800 | $9.12 |
| Sandstone and quartzite[3] | -- | -- | -- | -- | 1 | 21 | 227 | 10.75 | 1 | 10 | 92 | 9.47 |
| Miscellaneous stone | 3 r | 72 r | 705 r | 9.85 | 2 | 57 | 595 | 10.35 | 2 | 96 | 3,230 | 33.84 |
| Total or average | XX | 6,200 r | 59,200 r | 9.54 | XX | 6,760 | 62,000 | 9.17 | XX | 7,430 | 70,100 | 9.43 |

[r]Revised. 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]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[1]

(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 (-⅜ 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:[2] | | |
| Reported | W | W |
| Estimated | 145 | 1,510 |
| Total[3] | 6,760 | 62,000 |

W Withheld to avoid disclosing company proprietary data; included in "Total."
[1]Data are rounded to no more than three significant digits.
[2]Reported and estimated production without a breakdown by end use.

TABLE 4
NEBRASKA: CRUSHED STONE SOLD OR USED BY PRODUCERS
IN 2011, BY USE[1]

(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 (-⅜ 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:[2] | | |
| 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."
[1]Data are rounded to no more than three significant digits.
[2]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[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] | -- | -- | -- | -- | W | W |
| Coarse aggregate, graded[3] | -- | -- | -- | -- | W | W |
| Fine aggregate (-⅜ inch)[4] | -- | -- | -- | -- | W | W |
| Coarse and fine aggregates[5] | -- | -- | -- | -- | 325 | 4,060 |
| Agricultural[6] | -- | -- | -- | -- | W | W |
| Chemical and metallurgical[7] | -- | -- | -- | -- | W | W |
| Unspecified:[8] | | | | | | |
| Reported | -- | -- | -- | -- | 4,160 | 43,100 |
| Estimated | 21 | 227 | 48 | 498 | 76 | 782 |
| Total[9] | 21 | 227 | 48 | 498 | 6,690 | 69,300 |

W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.
[1]Data are rounded to no more than three significant digits.
[2]Includes macadam, riprap and jetty stone, filter stone, and other coarse aggregates.
[3]Includes concrete aggregate (coarse), bituminous aggregate (coarse), bituminous surface-treatment aggregate, railroad ballast, and other graded coarse aggregates.
[4]Includes stone sand (concrete), stone sand (bituminous mix or seal), screening (undesignated), and other fine aggregates.
[5]Includes graded road base or subbase, unpaved road surface, terrazzo and exposed aggregate, crusher run, roofing granules, and other coarse and fine aggregates.
[6]Includes agricultural limestone, poultry grit and mineral food, and other agricultural uses.
[7]Includes cement manufacture, lime manufacture, dead-burned dolomite manufacture, flux stone, chemical stone, glass manufacture, and sulfur oxide removal.
[8]Reported and estimated production without a breakdown by end use.
[9]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[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] | -- | -- | -- | -- | W | W |
| Coarse aggregate, graded[3] | -- | -- | -- | -- | W | W |
| Fine aggregate (-⅜ inch)[4] | -- | -- | -- | -- | W | W |
| Coarse and fine aggregates[5] | -- | -- | -- | -- | 264 | 5,690 |
| Agricultural[6] | -- | -- | -- | -- | W | W |
| Chemical and metallurgical[7] | -- | -- | -- | -- | W | W |
| Special[8] | -- | -- | -- | -- | W | W |
| Unspecified:[9] | | | | | | |
| 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.
[1]Data are rounded to no more than three significant digits.
[2]Includes macadam, riprap and jetty stone, filter stone, and other coarse aggregates.
[3]Includes concrete aggregate (coarse), bituminous aggregate (coarse), bituminous surface-treatment aggregate, railroad ballast, and other graded coarse aggregates.
[4]Includes stone sand (concrete), stone sand (bituminous mix or seal), screening (undesignated), and other fine aggregates.
[5]Includes graded road base or subbase, unpaved road surface, terrazzo and exposed aggregate, crusher run, roofing granules, and other coarse and fine aggregates.
[6]Includes agricultural limestone, poultry grit and mineral food, and other agricultural uses.
[7]Includes cement manufacture, lime manufacture, dead-burned dolomite manufacture, flux stone, chemical stone, glass manufacture, and sulfur oxide removal.
[8]Includes mine dusting or acid water treatment, whiting or whitening substance, and other fillers or extenders.
[9]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[1]

| 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.)[2] | 58 | 201 | 3.47 |
| Asphaltic concrete aggregates and other bituminous mixtures | 755 | 5,840 | 7.73 |
| Road base and coverings[3] | 2,130 | 13,500 | 6.35 |
| Fill | 466 | 1,880 | 4.04 |
| Snow and ice control | 49 | 290 | 5.92 |
| Other miscellaneous uses[4] | 21 | 385 | 18.33 |
| Unspecified:[5] | | | |
| Reported | 759 | 7,360 | 9.69 |
| Estimated | 6,530 | 41,500 | 6.36 |
| Total or average | 12,600 | 80,000 | 6.38 |

[1]Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.
[2]Includes plaster and gunite sands.
[3]Includes road and other stabilization (cement).
[4]Includes filtration.
[5]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[1]

| 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.)[2] | 144 | 586 | 4.07 |
| Asphaltic concrete aggregates and other bituminous mixtures | 604 | 4,320 | 7.15 |
| Road base and coverings[3] | 2,060 | 12,400 | 6.02 |
| Fill | 401 | 1,060 | 2.64 |
| Snow and ice control | 83 | 424 | 5.11 |
| Other miscellaneous uses[4] | 32 | 480 | 15.00 |
| Unspecified:[5] | | | |
| Reported | 969 | 7,550 | 7.79 |
| Estimated | 6,350 | 39,500 | 6.22 |
| Total or average | 12,900 | 77,900 | 6.04 |

[1]Data are rounded to no more than three significant digits, except unit value; may not add to totals shown.
[2]Includes plaster and gunite sands.
[3]Includes road and other stabilization (cement and lime).
[4]Includes filtration.
[5]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[1]

(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.)[2] | W | W | W | W | W | W |
| Asphaltic concrete aggregates and road base materials[3] | 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[4] | 3 | 8 | 13 | 275 | 4 | 102 |
| Unspecified:[5] | | | | | | |
| Reported | 42 | 256 | 4 | 48 | 713 | 7,050 |
| Estimated | 1,600 | 10,200 | 2,840 | 22,800 | 2,090 | 8,540 |
| Total[6] | 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."

[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]Includes filtration.

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

[9]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[1]

(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.)[2] | W | W | W | W | W | W |
| Asphaltic concrete aggregates and road base materials[3] | 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[4] | 11 | 34 | 17 | 356 | 4 | 91 |
| Unspecified:[5] | | | | | | |
| 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."

[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]Includes filtration.

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