

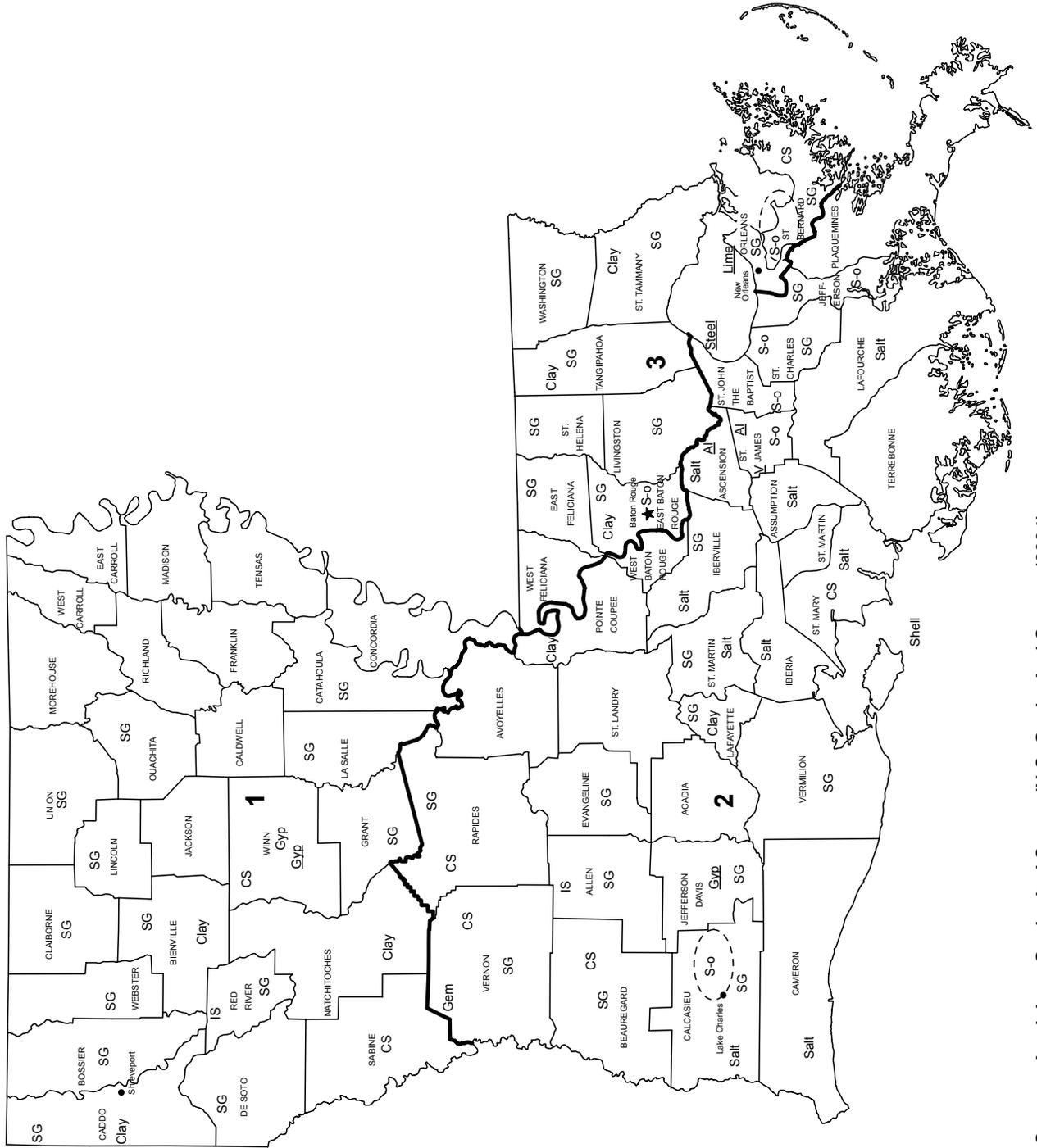
LOUISIANA

LEGEND

- Parish boundary
- ★ Capital
- City
- 1 — Crushed stone/sand and gravel districts

MINERAL SYMBOLS (Major producing areas)

- Al Aluminum plant
- Clay Common clay
- CS Crushed stone
- Gem Gemstones
- Gyp Gypsum
- Gypd Gypsum plant
- IS Industrial sand
- Lime Lime plant
- S-o Sulfur (oil)
- Salt Salt
- SG Construction sand and gravel
- Shell Shell
- Steel Steel plant
- Y Vanadium plant
- Concentration of mineral operations



Source: Louisiana Geological Survey/U.S. Geological Survey (2004)

THE MINERAL INDUSTRY OF LOUISIANA

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

In 2004, Louisiana's nonfuel raw mineral production¹ was valued at \$356 million, based upon annual U.S. Geological Survey (USGS) data. This was a 3% decrease compared with that of 2003,² which was up 17.6% from 2002. The State was 36th in rank (34th in 2003) among the 50 States in total nonfuel mineral production value, and Louisiana accounted for about 1% of the U.S. total.

Louisiana's leading nonfuel raw mineral, based on value, continued to be salt, accounting for about 52% of the State's nonfuel mineral value in 2004. This was followed by construction sand and gravel, making up about 29% of the State's value, crushed stone (company proprietary data), industrial sand and gravel, representing about 4% of the same value, and lime.

In 2004, a 14% increase in the production of salt was accompanied by a more than 22%, or a \$34 million increase in the commodity's value. But decreases in the values of most of the State's other nonfuel minerals, the largest of which were those of crushed stone (down more than \$30 million) and lime, resulted in the State's drop in total value for the year (table 1). In 2004, Louisiana continued to lead the Nation in the quantity of salt produced, ahead of 14 other producing States. Additionally, the State was a significant producer of construction sand and gravel, industrial sand and gravel, and common clays (descending order of value).

In 2003, virtually all nonfuel minerals had increased production and value compared with that of 2002 (only industrial sand and gravel production was down slightly and gemstones value was unchanged). The increase in total value over that of 2002 largely resulted from increases in salt and crushed stone of \$23 million and \$18 million, respectively, as well as increases of more than \$8 million in construction sand and gravel and more than \$5 million in industrial sand and gravel (table 1).

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 2004 USGS mineral production data published in this chapter are those available as of December 2005. All USGS Mineral Industry Surveys and USGS Minerals Yearbook chapters—mineral commodity, State, and country—also can be retrieved over the Internet at URL <http://minerals.usgs.gov/minerals>.

²Values, percentage calculations, and rankings for 2003 may differ from the Minerals Yearbook, Area Reports: Domestic 2003, Volume II, owing to the revision of preliminary 2003 to final 2003 data. Data and rankings for 2004 are considered to be final and are not likely to change significantly.

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

(Thousand metric tons and thousand dollars)

| Mineral | 2002 | | 2003 | | 2004 | |
|---|----------|---------|----------|---------|----------|---------|
| | Quantity | Value | Quantity | Value | Quantity | Value |
| Clays, common | 667 | 1,680 | 670 | 1,690 | 399 | 1,000 |
| Gemstones | NA | 6 | NA | 6 | NA | 6 |
| Salt | 12,000 | 129,000 | 12,600 | 152,000 | 14,300 | 186,000 |
| Sand and gravel: | | | | | | |
| Construction | 17,900 | 96,800 | 21,200 | 105,000 | 19,400 | 103,000 |
| Industrial | 541 | 12,000 | 499 | 17,200 | 476 | 14,800 |
| Combined values of gypsum (crude), lime, stone (crushed limestone, sandstone, miscellaneous) | XX | 72,400 | XX | 91,000 | XX | 51,200 |
| Total | XX | 312,000 | XX | 367,000 | XX | 356,000 |

NA Not available. XX Not applicable.

¹Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

²Data are rounded to three significant digits; may not add to totals shown.

TABLE 2
LOUISIANA: CRUSHED STONE SOLD OR USED, BY KIND¹

| Kind | 2002 | | | | 2003 | | | | 2004 | | | |
|---------------------|--------------------|---------------------------------|-------------------|------------|--------------------|---------------------------------|-------------------|------------|--------------------|---------------------------------|-------------------|------------|
| | 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) | W | W | \$10.85 | (2) | W | W | \$10.92 | (2) | W | W | \$11.50 |
| Sandstone | (2) | W | W | 11.23 | (2) | W | W | 11.02 | (2) | W | W | 11.02 |
| Miscellaneous stone | (2) | W | W | 11.02 | (2) | W | W | 11.02 | -- | -- | -- | -- |
| Total or average | XX | W | W | 11.06 | XX | W | W | 10.99 | XX | W | W | 11.25 |

W Withheld to avoid disclosing company proprietary data. XX Not applicable. -- Zero.

¹A significant amount of sold or used materials was shipped in from other States.

²Sales/distribution yards.

TABLE 3a

LOUISIANA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2003, BY USE^{1, 2, 3}

| Use | Quantity (thousand metric tons) | Value (thousands) | Unit value |
|--|---------------------------------------|----------------------|---------------|
| Construction: | | | |
| Coarse aggregate (+1½ inch), other coarse aggregates | W | W | \$14.09 |
| Other graded coarse aggregates | W | W | 13.40 |
| Fine aggregate (-¾ inch), other fine aggregates | W | W | 12.75 |
| Other coarse and fine aggregates | W | W | 11.53 |
| Unspecified:⁴ | | | |
| Reported | 5,480 | \$57,900 | 10.57 |
| Estimated | 207 | 2,270 | 10.95 |
| Total or average | W | W | 10.99 |

W Withheld to avoid disclosing company proprietary data.

¹Data are rounded to no more than three significant digits, except unit value.

²Most of the production included in this table was shipped into Louisiana from other States.

³To avoid disclosing company proprietary data, no district tables were produced for 2003.

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

TABLE 3b

LOUISIANA: CRUSHED STONE SOLD OR USED BY PRODUCERS IN 2004, BY USE^{1, 2, 3}

| Use | Quantity (thousand metric tons) | Value (thousands) | Unit value |
|--|---------------------------------------|----------------------|---------------|
| Construction: | | | |
| Coarse aggregate (+1½ inch), other coarse aggregates | W | W | \$20.06 |
| Coarse aggregate, graded, other graded coarse aggregates | W | W | 15.53 |
| Fine aggregate (-¾ inch), other fine aggregates | W | W | 15.35 |
| Coarse and fine aggregates, other coarse and fine aggregates | W | W | 12.68 |
| Unspecified:⁴ | | | |
| Reported | 2,090 | \$22,100 | 10.57 |
| Estimated | 1,100 | 11,000 | 10.68 |
| Total or average | W | W | 11.25 |

W Withheld to avoid disclosing company proprietary data.

¹Data are rounded to no more than three significant digits, except unit value.²Most of the production included in this table was shipped into Louisiana from other States.³To avoid disclosing company proprietary data, no district tables were produced for 2004.⁴Reported and estimated production without a breakdown by end use.

TABLE 4a
LOUISIANA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2003,
BY MAJOR USE CATEGORY^{1,2}

| Use | Quantity (thousand metric tons) | Value (thousands) | Unit value |
|---|---------------------------------------|----------------------|---------------|
| Concrete aggregate and concrete products ³ | 5,820 | \$31,800 | \$5.48 |
| Asphaltic concrete aggregates and other bituminous mixtures | 552 | 2,790 | 5.05 |
| Road base and coverings | 1,160 | 12,500 | 10.81 |
| Fill | 634 | 2,640 | 4.16 |
| Other miscellaneous uses ⁴ | 1,970 | 5,190 | 2.63 |
| Unspecified: ⁵ | | | |
| Reported | 4,950 | 23,700 | 4.80 |
| Estimated | 6,200 | 27,000 | 4.30 |
| Total or average | 21,200 | 105,000 | 4.95 |

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

²To avoid disclosing company proprietary data, no district tables were produced for 2003.

³Includes plaster and gunite sands.

⁴Includes railroad ballast.

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

TABLE 4b
LOUISIANA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2004,
BY MAJOR USE CATEGORY¹

| Use | Quantity (thousand metric tons) | Value (thousands) | Unit value |
|---|---------------------------------------|----------------------|---------------|
| Concrete aggregate (including concrete sand) | 8,180 | \$45,800 | \$5.60 |
| Asphaltic concrete aggregates and other bituminous mixtures | 390 | 3,200 | 8.19 |
| Road base and coverings | 1,060 | 12,500 | 11.78 |
| Fill | 914 | 2,570 | 2.81 |
| Other miscellaneous uses ² | 169 | 817 | 4.83 |
| Unspecified: ³ | | | |
| Reported | 1,930 | 10,500 | 5.43 |
| Estimated | 6,700 | 27,000 | 4.07 |
| Total or average | 19,400 | 103,000 | 5.31 |

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

²Includes railroad ballast.

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

TABLE 5
LOUISIANA: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 2004,
BY USE AND DISTRICT^{1,2}

(Thousand metric tons and thousand dollars)

| Use | Districts 1 and 2 | | District 3 | | Unspecified districts | |
|---|-------------------|--------|------------|--------|-----------------------|-------|
| | Quantity | Value | Quantity | Value | Quantity | Value |
| Concrete aggregate (including concrete sand) ³ | 2,510 | 20,400 | 7,120 | 41,100 | -- | -- |
| Fill | 85 | 366 | 828 | 2,200 | -- | -- |
| Other miscellaneous uses ⁴ | 157 | 625 | 12 | 192 | -- | -- |
| Unspecified: ⁵ | | | | | | |
| Reported | 1,790 | 9,470 | 134 | 994 | -- | -- |
| Estimated | 4,500 | 18,000 | 2,200 | 9,800 | 11 | 18 |
| Total | 9,050 | 48,400 | 10,300 | 54,200 | 11 | 18 |

-- Zero.

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

²Districts 1 and 2 are combined to avoid disclosing company proprietary data.

³Includes asphaltic concrete aggregates and road base materials.

⁴Includes railroad ballast.

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