

THE MINERAL INDUSTRY OF CONNECTICUT

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

In 1998, the preliminary estimated value¹ of nonfuel mineral production for Connecticut was \$105 million, according to the U.S. Geological Survey (USGS). This was a 31% increase from that of 1997,² and followed a 2% decrease from 1996 to 1997. Crushed stone and construction sand and

¹The terms "nonfuel mineral production" and related "values" encompass variations in meaning, depending on 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 1998 USGS mineral production data published in this chapter are preliminary estimates as of February 1999 and are expected to change. For some mineral commodities (for example, 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 <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 <http://minerals.usgs.gov/minerals>; facsimile copies may be obtained from MINES FaxBack.

²Values, percentage calculations, and rankings for 1997 may vary from the *Minerals Yearbook, Area Reports: Domestic 1997, Volume II*, owing to the revision of preliminary 1997 to final 1997 data. Data for 1998 are preliminary and expected to change, while related rankings may also be subject to change.

gravel, the leading nonfuel mineral commodities by value, accounted for nearly all of the State's total nonfuel mineral production and value. In 1998, Connecticut's increase in value resulted from a \$17.7 million increase in crushed stone and a \$6.8 million rise in construction sand and gravel (table 1). The value of dimension stone showed a small decrease, and the values of common clays and gemstones remained unchanged.

The Connecticut Geological and Natural History Survey (CGNHS) provided the following narrative information.³ Although no new large construction projects were begun in Connecticut during 1998, overall increases in construction industry work (about a 15% increase in building construction), especially for highway construction projects, caused increased production of construction sand and gravel and crushed stone, according to the CGNHS and the Connecticut Construction Industry Association (table 1). In June 1998, the U.S. Congress passed into law the Transportation Equity Act for the 21st Century (Public Law 105-178), which authorized funds for Federal-aid highways, highway safety programs, and transit programs. This resulted in more Federal money for road and bridge construction in the State.

³Nancy McHone, Environmental Analyst, submitted the information provided by the CGNHS.

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

(Thousand metric tons and thousand dollars unless otherwise specified)

| Mineral | 1996 | | 1997 | | 1998 d/ | |
|-------------------------------|----------|--------|----------|--------|----------|---------|
| | Quantity | Value | Quantity | Value | Quantity | Value |
| Clays: Common | W | W | 48 | 90 | 49 | 92 |
| Gemstones | NA | 5 | NA | 5 | NA | 5 |
| Sand and gravel: Construction | 6,380 | 26,900 | 5,410 | 24,800 | 6,710 | 31,600 |
| Stone: Crushed | 6,720 | 55,000 | 5,760 | 55,300 | 7,300 | 73,000 |
| Total 3/ | XX | 81,900 | XX | 80,200 | XX | 105,000 |

d/ Preliminary. NA Not available. W Withheld to avoid disclosing company proprietary data. XX Not applicable.

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

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

3/ Partial total, excludes values that must be concealed to avoid disclosing company proprietary data.

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

| Kind | 1996 | | | | 1997 | | | |
|---------------------|--------------------|---------------------------------|-------------------|------------|--------------------|---------------------------------|-------------------|------------|
| | Number of quarries | Quantity (thousand metric tons) | Value (thousands) | Unit value | Number of quarries | Quantity (thousand metric tons) | Value (thousands) | Unit value |
| Limestone | 5 r/ | 1,010 r/ | 7,490 r/ | \$7.44 r/ | 4 | W | W | \$7.65 |
| Dolomite | 2 r/ | W | W | 13.44 | 2 | W | W | 23.89 |
| Granite | 6 | 144 | 1,110 | 7.70 | 4 | 158 | 1,250 | 7.89 |
| Traprock | 9 r/ | 4,590 r/ | 33,600 r/ | 7.31 | 8 | 4,180 | 35,000 | 8.37 |
| Quartzite | 1 | W | W | 4.35 | 1 | W | W | 4.52 |
| Miscellaneous stone | 2 r/ | W | W | 14.32 | 2 | W | W | 14.65 |
| Total | XX | 6,720 | 55,000 | 8.19 | XX | 5,760 | 55,300 | 9.60 |

r/ Revised. W Withheld to avoid disclosing company proprietary data; included in "Total." XX Not applicable.
1/ Data are rounded to three significant digits, except unit value; may not add to totals shown.

TABLE 3
CONNECTICUT: CRUSHED STONE SOLD OR USED BY PRODUCERS
IN 1997, BY USE 1/ 2/

| Use | Quantity (thousand metric tons) | Value (thousands) | Unit Value |
|--|---------------------------------|-------------------|------------|
| Coarse aggregate (+1 inch): Other coarse aggregate 3/ | 11 | \$82 | \$7.45 |
| Coarse aggregate, graded: Other graded coarse aggregate 4/ | 231 | 2,140 | 9.27 |
| Fine aggregate (-3/8 inch) 5/ | 256 | 1,970 | 7.70 |
| Coarse and fine aggregates: | | | |
| Graded road base or subbase | 47 | 347 | 7.38 |
| Unpaved road surfacing | 27 | 206 | 7.63 |
| Crusher run or fill or waste | 5 | 35 | 7.00 |
| Agricultural limestone | 50 | 476 | 9.52 |
| Special: | | | |
| Asphalt fillers or extenders | W | W | 12.96 |
| Other fillers or extenders | W | W | 27.65 |
| Unspecified: 6/ | | | |
| Actual | 1,440 | 11,400 | 7.96 |
| Estimated | 3,270 | 27,500 | 8.43 |
| Total | 5,760 | 55,300 | 9.60 |

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

1/ Includes dolomite, granite, limestone, miscellaneous stone, quartzite, and traprock.

2/ Data are rounded to three significant digits, except unit value; may not add to totals

3/ Includes riprap and jetty stone.

4/ Includes bituminous aggregate (coarse), bituminous surface-treatment aggregate, and concrete aggregate (coarse).

5/ Includes stone sand, bituminous mix or seal, and screening (undesignated).

6/ Includes reported and estimated production without a breakdown by end use.

TABLE 4
CONNECTICUT: CRUSHED STONE SOLD OR USED
BY PRODUCERS IN 1997, BY USE 1/

(Thousand metric tons and thousand dollars)

| Use | District 1 | |
|-----------------------------------|------------|--------|
| | Quantity | Value |
| Construction aggregates: | | |
| Coarse aggregate (+1 1/2 inch) 2/ | W | W |
| Coarse aggregate, graded 3/ | W | W |
| Fine aggregate (-3/8 inch) 4/ | W | W |
| Coarse and fine aggregate 5/ | W | W |
| Agricultural 6/ | 50 | 476 |
| Special 7/ | W | W |
| Unspecified: 8/ | | |
| Actual | W | W |
| Estimated | W | W |
| Total | 5,760 | 55,300 |

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

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

2/ Includes riprap and jetty stone and other coarse aggregate.

3/ Includes concrete aggregate (coarse), bituminous aggregate (coarse),

Bituminous surface treatment aggregate, and other graded coarse aggregate.

4/ Includes stone sand (bituminous mix or seal), and screening

5/ Includes graded road base or subbase, unpaved road surfacing, and crusher run (select material or fill).

6/ Includes agricultural limestone.

7/ Includes asphalt fillers or extenders and other fillers or extenders.

8/ Includes reported and estimated production without a breakdown by end

TABLE 5
CONNECTICUT: CONSTRUCTION SAND AND GRAVEL SOLD OR USED IN 1997,
BY MAJOR USE CATEGORY 1/ 2/

| Use | Quantity (thousand metric tons) | Value (thousands) | Value per ton |
|---|---------------------------------------|----------------------|------------------|
| Concrete aggregate and concrete products 3/ | 1,340 | \$7,200 | \$5.37 |
| Asphaltic concrete aggregates and other bituminous mixtures | 236 | 1,460 | 6.19 |
| Road base and coverings | 669 | 4,600 | 6.88 |
| Fill | 246 | 928 | 3.77 |
| Snow and ice control | 237 | 1,440 | 6.09 |
| Other miscellaneous uses | 15 | 36 | 2.40 |
| Unspecified: 4/ | | | |
| Actual | 659 | 2,070 | 3.15 |
| Estimated | 2,020 | 7,020 | 3.48 |
| Total or average | 5,410 | 24,800 | 4.57 |

1/ To avoid disclosing company proprietary data, no district tables were produced for 1997.

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

3/ Includes plaster and gunite sands.

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