The Mineral Industry of South Dakota

This chapter has been prepared under a Memorandum of Understanding between the Bureau of Mines, U.S. Department of the Interior, and the South Dakota Geological Survey for collecting information on all nonfuel minerals.

By James H. Aase¹

Nonfuel mineral production in South Dakota during 1981 was valued at \$193.4 million, a 15% decrease from the 1980 record high. This decrease was attributed principally to lower prices for gold, coupled with reduced output for most of the other mineral commodities.

Among the 12 nonfuel minerals produced during 1981, 7 increased in output value and 4 gained in production over those of 1980. Gold, the leading commodity produced in terms of value, constituted 66% of the

State's total nonfuel mineral value. Among the nonmetallic minerals, stone led in output value, followed by cement and sand and gravel.

South Dakota was ranked 33d nationally in 1981 for the value of its nonfuel mineral production. Of the Nation's total gold output, the State contributed 20% in value but less than 1% of the Nation's total value of cement, clays, feldspar, gem stones, gypsum, lime, mica, sand and gravel, silver, and stone.

Table 1.—Nonfuel mineral production in South Dakota¹

| | 19 | 80 | 1981 | | |
|--|---|--|--|--|--|
| Mineral | Quantity | Value (thou- sands) | Quantity | Value (thou- sands) | |
| Cement: Masonry thousand short tons Portland do do Gem stones do Gold (recoverable content of ores, etc.) thousand short tons. Sand and gravel do do Gold (recoverable content of ores, etc.) thousand short tons. Sand and gravel thousand troy ounces. Silver (recoverable content of ores, etc.) thousand troy ounces. Stone: Crushed thousand short tons. Dimension do Go | 459 169 NA *267,642 (3) 4,209 51 3,151 42 | \$377 23,042 283 50 *163,947 4 8,243 1,058 8,942 15,035 | 6 450 116 NA 278,162 W P4,000 56 2,985 | \$454 23,290 209 70 127,854 W P7,900 587 9,085 17,543 | |
| Combined value of beryllium concentrate (1981), clays (bentonite), feldspar, gypsum, iron ore (1980), lime, and value indicated by symbol W | xx | 6,873 | xx | 6,382 | |
| Total | XX | ² 227,854 | XX | 193,374 | |

^pPreliminary. ^rRevised. NA Not available. W Withheld to avoid disclosing company proprietary data; value included in "Combined value" figure. XX Not applicable.

3Less than 1/2 unit.

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

²Excludes bentonite; value included in "Combined value" figure.

Table 2.--Value of nonfuel mineral production in South Dakota, by county¹

(Thousands)

| County | 1979 | 1980 | Minerals produced in 1980 in order of value |
|---|-------------|------------|--|
| Beadle | \$43 | \$54 | Sand and gravel. |
| rookings | 718 | 463 | Do. |
| rown | 461 | 278 | Do. |
| rule | W | w | Do. |
| utte | ₩ | w | Clays, sand and gravel. |
| ampbell | w | Ÿ | Sand and gravel. |
| narles Mix | 216 | 227 | Do. |
| | w | 76 | Do. |
| ark | 44 | 48 | Do. |
| y | 498 | w | Do. |
| dington | | 10 | Do. Do. |
| rson | 11 | | |
| uter | .W | W | Stone, feldspar, sand and gravel. |
| vison | 101 | 246 | Sand and gravel. |
| y | 1 <u>21</u> | 82 | Do. |
| uel | W | 95 | Do. |
| wey | 54 | | |
| uglas | W | W | Sand and gravel. |
| ll River | 968 | 433 | Sand and gravel, stone. |
| ulk | 75 | 67 | Sand and gravel. |
| ant | Ŵ | W | Stone, sand and gravel. |
| egory | 51 | 218 | Sand and gravel. |
| aakon | 18 | | B |
| amlin | w | w | Sand and gravel. |
| and | ẅ | ẅ | Do. |
| | Ÿ | ẅ | Stone, sand and gravel. |
| inson | w | w | Sand and gravel. |
| ighes | | | |
| utchinson | 92 | W 50 | Do. Do. |
| /de | 150 | | |
| rauld | 54 | 43 | <u>D</u> o. |
| nes | 35 | <u>31</u> | D o. |
| ngsbury | 22 | w | <u>D</u> o. |
| ke | w | 222 | Do. |
| wrence | 77,429 | 166,606 | Gold, silver, iron ore, stone, sand and grav |
| man | 44 | 49 | Sand and gravel. |
| cCook | w | | |
| cPherson | W · | W | Sand and gravel. |
| arshall | w | w | Do. |
| eade | w | Ŵ | Gypsum, sand and gravel, stone. |
| iner | 19. | 35 | Sand and gravel. |
| innehaha | w · | 3,586 | Stone, sand and gravel. |
| mine.ming ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | 159 | ₩ | Sand and gravel. |
| oody | W | w | Cement, lime, stone, sand and gravel, clay |
| nnington | *** | W, | mica. |
| | 990 | *** | |
| rkins | 230 | . W | Sand and gravel. |
| tter | 113 | 67 | Do. |
| berts | W | w | Do. |
| nborn | W | W | Do. |
| ink | 133 | W | Do. |
| Шу | 34 | 347 | Do. |
| ipp | 5 | 220 | Sand and gravel, stone. |
| rner | w | 74 | Sand and gravel. |
| nion | 156 | 79 | Do. |
| alworth | 106 | 43 | Do. |
| ankton | 429 | Ŵ | Sand and gravel, stone. |
| ehach | w | •• | |
| ndistributed ² | 66,103 | 54,109 | |
| Total ³ | 148,686 | 227,854 | |

Table 3.—Indicators of South Dakota business activity

| | 1980 | 1981 ^p | Change, percent |
|--|----------------|-------------------|--------------------|
| Employment and labor force, annual average: | | | |
| Total civilian labor force thousands | 325.5 | 334.9 | +2.9 |
| Unemploymentdo | 16.9 | 15.8 | -6.5 |
| Employment (nonagricultural): | | | |
| Mining ¹ dodo | 2.8 | 2.9 | +3.6 |
| Manufacturingdo | 26.1 | 25.8 | -1.2 |
| Contract constructiondo | 10.7 | 9.9 | -7.5 |
| Transportation and public utilitiesdodo | 13.3 | 12.8 | -3.8 |
| Wholesale and retail trade | 65.1 | 64.4 | -1.1 |
| Finance, insurance, real estatedo | 11.1 | 11.3 | +1.8 |
| Servicesdo | 50.3 | 51.5 | +2.4 |
| Governmentdo | 58.6 | 58.2 | 7 |
| Total nonagricultural employment ¹ dodo | 238.0 | 236.8 | -,- |
| Personal income: | | | |
| Total millions | \$5,408 | \$6,028 | +11.5 |
| Per capita | \$7,818 | \$8,793 | +12.5 |
| Construction activity: | | | |
| Number of private and public residential units authorized | 3,100 | 1,613 | -48.0 |
| Value of nonresidential construction millions | \$63.1 | \$69.9 | +10.8 |
| Value of State road contract awards | \$57.5 | \$60.5 | +5.2 |
| Shipments of portland and masonry cement to and within the State | | | |
| thousand short tons | 263 | 243 | -7.6 |
| Nonfuel mineral production value: | **** | ***** | |
| Total crude mineral value millions_ | \$227.9 | \$193.4 | -15. |
| Value per capita, resident population | \$330 | \$280 | -15. |
| Value per square mile | \$2,955 | \$2,510 | -15.1 |

Sources: U.S. Department of Commerce, U.S. Department of Labor, Highway and Heavy Construction Magazine, and U.S. Bureau of Mines.

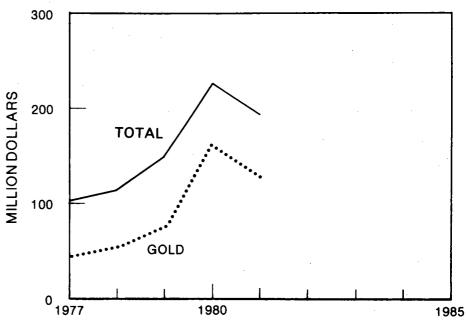


Figure 1.—Value of mine production of gold and total value of nonfuel mineral production in South Dakota.

W Withheld to avoid disclosing company proprietary data; included with "Undistributed."

1 The following counties are not listed because no nonfuel mineral production was reported: Aurora, Bennett, Bon Homme, Buffalo, Edmunds, Harding, Jackson, Lincoln, Mellette, Shannon, Stanley, and Todd.

2 Includes gem stones, sand and gravel that cannot be assigned to specific counties, and values indicated by symbol W.

3 Data may not add to totals shown because of independent rounding.

^pPreliminary.

¹Includes oil and gas extraction.

Employment.—According to preliminary figures released by the South Dakota Department of Labor, average employment in the mining industry during 1981 totaled 2,900 workers, a 7.4% increase compared with that of 1980. Mining industry workers represented about 1.2% of the State's total nonagricultural workforce. During the last quarter of 1981, those engaged in mining received average weekly earnings of \$414, a 10% increase over that for the same period in 1980.

Trends and Developments.—In 1981, the State issued 15 nonfuel mineral exploration permits, about the same number as in 1980. Most of the permits were issued for precious metals.

At the Homestake gold mine in Lead, the company continued to expand bulk-mining techniques, first introduced in 1978, to offset and control rising costs in the laborintensive cut-and-fill mining method being used. During 1981, the Homestake Mine derived approximately 43% of its production from bulk mining. In addition, the company mechanized certain cut-and-fill stopes with new types of equipment designed to increase efficiency and continued planning for deep-level mining where exploration was encouraging. Ore was produced in more than 100 different areas of the mine to a depth of 6,800 feet. Production from the 7,100-foot level was scheduled to commence in 1982. The company continued work on an engineering design for deepening an internal shaft, the No. 4 winze, to the 8,000-foot level.2

Early in the year, Homestake Mining Co. announced that it was considering a surface mining operation for gold on property adjoining its underground mine in Lead. Known locally as the "Open Cut," the area is the site of the original gold discovery and mining activity in the northern Black Hills and has not been worked for approximately 35 years. The area is a surface occurrence of low-grade gold reserves partly overlying abandoned underground workings. The company estimated that 10 tons of ore would be required to recover 1 ounce of gold.

In early March, South Dakota enacted legislation setting a severance tax of 6% of the gross yield from the sale of precious metals (gold and silver) severed in the State. The new tax replaced a net profits production tax on precious metal production. In August, Homestake Mining Co. filed a lawsuit against South Dakota, challenging the

1-month-old tax. In its suit, Homestake alleged the legislation unconstitutionally discriminated against its Lead operation, the only one in the State subject to the tax.

A Canadian company, Wharf Resources, Ltd., of Vancouver, British Columbia, began experimenting with a process to extract gold by sprinkling a cyanide solution over low-grade ore. If the so-called "heap leaching" process proves to be economically feasible for treating the ore, the company indicated that commercial development of the estimated 5-million-ton ore reserve could begin in 1982. Wharf Resources, Ltd., is the second company to recently experiment with heap leaching of gold in the Black Hills area. Cyprus Exploration Co., a subsidiary of Amoco Minerals Co., tried the process in 1980 on ore tailings at the Gilt Edge Mine on Strawberry Hill near Deadwood. Cyprus was reportedly studying the results of these tests during the year.

In cooperation with the Upper Great Lakes Regional Commission and the State of South Dakota, the U.S. Geological Survey (USGS) completed a project identifying and summarizing environmental and land use permits the State required for developing energy, mineral, and other related natural resources. The findings, published as a guidebook³ available to all interested groups, provide concise, easy-to-use information on the State regulations that govern the development of such resources.

Throughout 1981, the Geologic Division of the USGS continued a program investigating the State's mineral resources and its underlying geology. Among the various projects underway or completed by the Geologic Division during the year were reports on the origin of lithium-rich magmas and on iron in spodumene in the Keystone pegmatite area of the Black Hills; a study of the mineral resource potential on Indian lands; and a study of geology, geophysics, and mineral potential of buried Precambrian rock.

Legislation and Government Programs.—Among the bills the 1981 session of the South Dakota legislature enacted that affect the mining industry and mineral-resource development activities in the State were the following:

HB 1311.—Precious Metals Tax.—Changes precious metals tax from a tax on net profits to a severance tax of 6% of gross yield from sales of precious metals severed in the State, retroactive to January 1, 1981. The measure exempts producers of

less than 1.000 ounces per year.

Senate Concurrent Resolution 19.— Mining Law Study.—Requests that an interim committee be established to study the mining laws of the State and to report to the next session of the legislature.

Throughout most of the year, the Legislative Research Council Select Committee on Mining directed efforts toward revising, updating, and consolidating the State mining laws. After holding numerous public hearings with various interest groups, the

committee completed its investigative work near yearend and recommended a series of changes in the exploration, mining, and milling laws for the 1982 legislature's consideration.

By Executive Order 81-02, the Governor transferred the functions of the surface mining program (including oil and gas exploration) from the Department of Agriculture to the Department of Water and Natural Resources, effective July 1, 1981.

REVIEW BY NONFUEL MINERAL COMMODITIES

METALS

Beryllium.—Bland Mining reported a small amount of beryllium ore production from the Roosevelt and Beecher Mines in Custer County during 1981.

Gold.—South Dakota was ranked second nationally behind Nevada in gold production for the year, with the Homestake Mine at Lead yielding most of the State output. Minor amounts of gold were produced from a placer operation near Deadwood in Lawrence County. Although the quantity of gold produced in 1981 increased about 4% over 1980 output, the value of 1981 production was about 22% lower, owing to major declines in gold prices during the year; the average price dropped about \$153 per troy ounce to \$460.

The average recovery grade of the 1,848,303 tons of lode mine ore processed in 1981 was 0.15 ounce per ton of gold content, and that of the approximately 5,000 cubic yards of placer ore washed was about 0.04 ounce per cubic yard of material handled.

According to the Homestake Mining Co. 1981 annual report, ore reserves at the Homestake Mine in Lead were estimated at 19,335,000 tons in 1981 with an average grade of 0.204 ounce per ton. Average cost per ounce of gold produced at the mine increased to \$342 in 1981 from \$308 in 1980, resulting primarily from increased labor costs and higher severance taxes. The severance tax paid to the State on gold sold from the Lead operation was \$27.31 per ounce, totaling \$7,493,000, nearly 23% of the mine's operating earnings in 1981.

Table 4.—South Dakota: Mine production of gold and silver in terms of recoverable metal

| Mines p | | oducing | Material sold or | Gold (lode and placer) | | Silver (lode and placer) | | |
|-----------|------|-----------------|--|------------------------|----------------------|----------------------------|---------------------|--|
| Year | Lode | Placer | treated ¹ (thousand metric tons) | Troy ounces | Value (thousands) | Thousand troy ounces | Value (thousands | |
| 1977 | 1 | 1 | 1,432 | 304,846 | \$45,212 | 69 | \$317 | |
| 1979 | 1 | | 1,442 1,297 | 285,512 245,912 | 55,261 75,618 | 53 58 | 287 643 | |
| 1980 | î | -r ₁ | 1.621 | r267.642 | 163.947 | 51 | 1,058 | |
| 1981 | Ī | ī | 1,677 | 278,162 | 127,854 | 56 | 587 | |
| 1876-1981 | NA | NA | NA | 37,808,733 | 1,677,111 | 13,505 | 14,601 | |

^TRevised. NA Not available. ¹Excludes placer gravel.

Silver.—The State's entire silver production during the year was obtained as a coproduct with the gold produced at the Homestake Mine in Lead. Output in 1981 increased 10% in quantity but fell 45% in total value from that of 1980 because of lower silver prices; the average price dropped 49% to \$10.52 per troy ounce.

NONMETALS

Cement.—Cement manufactured in South Dakota during 1981 came exclusively from the State-owned plant at Rapid City. Cement shipments during the year, consisting of four types of portland cement and a prepared masonry cement, decreased 2% in

quantity but increased slightly in value over that of the previous year. The average unit values of both the portland and masonry cement sold in 1981 reached record highs of \$51.73 per ton and \$79.63 per ton, respectively.

Ready-mix concrete companies were the largest users of portland cement, consuming 63% of the 1981 shipments. Approximately 840,000 tons of State-produced nonfuel minerals was consumed in manufacturing the cement produced in South Dakota during 1981.

Clays.—American Colloid Co. operated the State's only bentonite processing plant, near Belle Fourche in Butte County. The plant processed crude material obtained from sources within the State and from Montana and Wyoming. Output from the plant increased both in quantity and value over the levels attained in 1980.

The processed bentonite was marketed for many uses: As an ingredient in oil and gas drilling mud; as a binder for animal feed; as waterproofing sealants; as a binder for iron ore pellets; in foundry sand; and for other miscellaneous uses. Bentonite accounted for the greatest percentage of the total clay value credited to the State in 1981.

Common clay and shale output dropped in quantity and value from that of 1980. Production in 1981 was from pits the South Dakota Cement Commission and Dakota Block Co. operated in Pennington County. Most of the output was used in cement manufacturing, and the remainder, in concrete blocks and structural concrete products.

Feldspar.—Pacer Corp. processed handcobbed crude feldspar, obtained from mines in Custer County, at its grinding mill at Custer. The quantity and value of crude feldspar mined decreased from levels attained in 1980.

Among the end uses of the processed material marketed during the year were pottery and enamel. The processed material was shipped to more than a dozen States as well as to foreign countries.

Gem Stones.—No commercial operations for mining gem stones were reported in South Dakota in 1981. Although no precise value is known for material that rockhounds, mineral collectors, and other hobbyists collected, it is estimated that the amount did not exceed \$70,000.

Gypsum.—State gypsum production in 1981 came from a single mine the South Dakota Cement Commission operated in Pennington County. Production, less in quantity and value than in 1980, was used exclusively in cement manufacturing.

Lime.—The State's entire lime production during 1981 was from the Pete Lien & Sons, Inc., plant in Rapid City. Output for the year was down slightly in quantity but was higher in total value compared with that of 1980.

Lime consumption in South Dakota, obtained from all domestic sources, was approximately 22,000 tons in 1981.

Mica.—Concepts West, Inc., and Pacer Corp. reported mica production from the Tin Crown and Brite-X Mines, respectively, in Custer County, and Pendleton Mining Co. reported production from the Woodtin Mine in Pennington County. The material produced was used primarily in well drilling and in manufacturing roofing products.

Sand and Gravel.—To reduce reporting burdens and costs, the Bureau of Mines implemented new canvassing procedures for its surveys of sand and gravel producers. Beginning with the collection of 1981 production data, the survey of construction sand and gravel producers will be conducted for even-numbered years only: the survey of industrial sand and gravel producers will continue to be conducted annually. Therefore, this chapter contains only preliminary estimates for 1981 production of construction sand and gravel. The preliminary estimates for production of construction sand and gravel for odd-numbered years will be revised and made final the following year.

Table 5.—South Dakota: Construction sand and gravel sold or used by producers

| | 1980 | | | 1981 ^p | | |
|------------------|---|---------------------------|---------------------|---|---------------------------|---------------------|
| | Quantity (thousand short tons) | Value (thou- sands) | Value per ton | Quantity (thousand short tons) | Value (thou- sands) | Value per ton |
| Sand Gravel | 1,168 3,041 | \$2,941 5,302 | \$2.52 1.74 | NA NA | NA NA | NA NA |
| Total or average | 4,209 | 8,243 | 1.96 | 4,000 | \$7,900 | \$1.98 |

Preliminary. NA Not available.

Stone.—Granite, limestone, and sandstone or quartzite were produced in the State during 1981. Of all nonmetallic minerals produced during the year, stone was ranked first in value, accounting for 41% of the State's total value of nonmetallic mineral output. Stone production dropped slightly in quantity but rose modestly in value compared with 1980 levels. In 1981, 15 firms mined stone from 20 quarries in 9 counties. Pennington County led in crushed stone output; all dimension stone came from Grant County.

Table 6.—South Dakota: Crushed stone¹ sold or used by producers, by use

(Thousand short tons and thousand dollars)

| | 19 | 80 | 1981 | |
|---|----------|-------|--------------|---------------------|
| Use | Quantity | Value | Quantity | Value |
| Concrete aggregate | 1,222 | 4,437 | 1,159 337 | 4,327 1,130 W |
| Bituminous aggregate | 275 | 801 | 337 | 1.130 |
| Dense-graded road base stone | 217 | W | w | . ₩ |
| Surface-treatment aggregate | 42 | 108 | 35 50 | 117 |
| Other construction aggregate and road stone | w | 46 | 50 | 99 |
| Riprap and jetty stone | 98 | 429 | 112 | 491 |
| Railroad ballast | | 542 | 171 | 567 |
| Lime manufacture | 210 | 398 | 179 | 359 |
| Other ² | 901 | 2,181 | 941 | 1,994 |
| Total ³ | 3,151 | 8,942 | 2,985 | 9,08 |

W Withheld to avoid disclosing company proprietary data; included with "Other."

³Data may not add to totals shown because of independent rounding.

Table 7.—South Dakota: Stone sold or used by producers, by kind

(Thousand short tons and thousand dollars)

| | | 198 | 30 | 1981 | |
|---|---------|--------------|---------------------|--------------|----------------|
| Kind of stone | | Quantity | Value | Quantity | Value |
| Dimension stone, total ¹ | | 42 | 15,035 | 50 | 17,543 |
| Crushed and broken: Limestone Sandstone | <u></u> | 2,237 914 | 5,428 3,515 | 2,048 937 | 5,278 3,807 |
| Total | | 3,193 | ² 23,977 | 3,035 | 26,628 |

¹Data represent granite.

Limestone output, exceeding that of any other rock type, came from 10 quarries in Custer, Fall River, Lawrence, Meade, Pennington, and Yankton Counties. The mined material was crushed and used most extensively as an aggregate in concrete and in cement manufacturing.

Six companies quarried granite at seven sites in Grant County. Most of the output was dimension granite used for monuments. Three companies produced sandstone or quartzite at three sites in Hanson and Minnehaha Counties. Most of the output was used as an aggregate for concrete; lesser amounts were used as bituminous aggregate, railroad ballast, riprap, and surface-treatment aggregate.

Approximately three-fourths of South

Dakota's 1981 stone production was from the operations of four firms. The range of output from individual quarry operations in 1981 varied widely, with 10 quarries producing less than 25,000 tons; 5 quarries, between 25,000 and 200,000 tons; 3 quarries, between 200,000 and 500,000 tons; and 2 quarries producing in excess of 500,000 tons. Approximately 70% of the crushed stone produced during the year was transported by truck; the remainder was handled by rail.

¹Includes limestone and sandstone.

²Includes stone used as agricultural limestone, in cement manufacture, other uses not specified, and data indicated by symbol W.

²Data do not add to total shown because of independent rounding.

¹State Liaison Officer, Bureau of Mines, Minneapolis, Minn. ²Homestake Mining Co. 1981 Annual Report, p. 12.

³U.S. Geological Survey. South Dakota Permit Requirements for Natural Resources Development. September 1981, 76 pp.

Table 8.—Principal producers

| Commodity and company | Address | Type of activity | County |
|--|---|---|--|
| Beryllium concentrate: Bland Mining | Rte. 3, Box 18 Custer, SD 57730 | Mines | Custer. |
| Cement: South Dakota Cement Commission. | Box 360 Rapid City, SD 57709 | Four rotary kilns | Pennington. |
| Clays: American Colloid Co | 5100 Suffield Ct. | Open pit mine and plant | Butte. |
| Dakota Block Co | Skokie, IL 60076 Box 2920 | do | Pennington. |
| South Dakota Cement Commission. | Rapid City, SD 57709 Box 360 Rapid City, SD 57709 | Open pit mine | Do. |
| Feldspar: Pacer Corp | Box 912 Custer, SD 57730 | Open pit mines and dry- grinding plant. | Custer. |
| Gold: Homestake Mining Co | Box 875 | Underground mine, cyani- | Lawrence. |
| Strawberry Hill Mining Co $_{}$ | Lead, SD 57754 Box 645 Deadwood, SD 57732 | dation mill, refinery. Placer | Do. |
| Gypsum: South Dakota Cement Commission. | Box 360 Rapid City, SD 57709 | Open pit mine | Pennington. |
| Lime: Pete Lien & Sons, Inc | Box 440 Rapid City, SD 57709 | 1 rotary kiln, 1 vertical kiln, continuous-hydrator plant. | Do. |
| Mica: Concepts West, Inc | Box 706 Rapid City, SD 57709 | Mine and dry-grinding plant. | Custer. |
| Pacer Corp | Box 912 Custer, SD 57730 | do | Do. |
| Pendleton Mining Co | Box 286 Keystone, SD 57751 | Mine | Pennington. |
| Sand and gravel (1980): Birdsall Sand & Gravel Co., Inc. Concrete Materials, Inc | Box 767 Rapid City, SD 57709 Summit, SD 57266 302 Paulton Bldg. | Pits and plants | Fall River, Pen- nington, Sully. |
| L. G. Everist, Inc | Sioux Falls, SD 57102 | Pit and plant Pits and plants | Roberts. Brookings, Pennington, Yankton. |
| Fodness Gravel | Route 5 Sioux Falls, SD 57101 | Pit and plant | Minnehaha. |
| Luke Construction Co F. J. McLaughlin Co | Kimball, SD 57355 Box 13 Watertown, SD 57201 | do | Brule. Codington. |
| N & M Construction, Inc | Box 337 Sturgis, SD 57785 | do | Meade. |
| Reynolds Construction Co | Box 689 Sioux Falls, SD 57101 | do | Minnehaha. |
| Silver: Homestake Mining Co | Box 875 Lead, SD 57754 | See Gold | Lawrence. |
| Stone: Granite: | | | |
| Cold Spring Granite Co Dakota Granite Co | Cold Spring, MN 56320 _ Box 1351 Milbank, SD 57252 | Quarries Quarry | Grant. Do. |
| Delano Granite Works, Inc _ Robert Hunter Granite Co., Inc. | Delano, MN 55328 501 East Drake St. | do | Do. Do. |
| Limestone: Centennial Quarry Co | Milbank, SD 57252 Box 311 | Quarry and plant | T |
| Pete Lien & Sons, Inc | Spearfish, SD 57783 Box 440 | Quarries and plants | Lawrence. Custer and |
| Northwestern Engineering | Rapid City, SD 57709 Box 1392 | do | Pennington. Fall River, Meade, |
| Co. (Hills Materials Co.). South Dakota Cement Commission. | Rapid City, SD 57709 Box 360 Rapid City, SD 57709 | Quarry and plant | Pennington. Pennington. |
| Sandstone: Concrete Materials Co | 3000 West Madison St. | do | Minnehaha. |
| L. G. Everist, Inc | Sioux Falls, SD 57102 302 Paulton Bldg. Sioux Falls, SD 57102 | do | Do. |
| Spencer Quarries, Inc | Sioux Falls, SD 57102 Box 25 Spencer, SD 57374 | do | Hanson, |