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CANADA



# THE CEMENT MANUFACTURING INDUSTRY

## 1953

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## NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: Volume I — The Primary Industries, including mining, forestry and fisheries; Volume II—Manufacturing; Volume III—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume I consists of the following parts:

- Part I — Mineral Statistics
- Part II — Forestry Statistics — Operations in the Woods
- Part III — Fisheries Statistics

Part I includes the following reports which constitute the complete series on Mineral Statistics of Canada. Individual reports are issued as the information becomes available; they are arranged in a form suitable for binding.

- A — General Review of the Mining Industry, 50¢
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# THE CEMENT MANUFACTURING INDUSTRY

1953

The producers of Portland cement in Canada shipped 22,238,335 barrels valued at \$58,842,022 in 1953, thus establishing a new high both in volume and value. In the preceding year the comparable figures were 18,520,538 barrels worth \$48,059,479.

Cement plants are geographically located from Newfoundland to British Columbia, in seven of the provinces. Quebec producers shipped 7,400,912 barrels. Ontario shipments were 7,078,181 barrels, as compared with 5,577,025 barrels in 1952. The increase was due to the expanded facilities of the existing plants. As a result of increased capacity, the Alberta plant shipped 3,098,664 barrels compared with 1,886,544 barrels in 1952.

During the year the raw materials consumed included: 5,330,778 tons of limestone, 199,743 tons of

gypsum, 571,069 tons of clay, 249,209 tons of shale, 58,548 tons of sand and 20,703 tons of iron oxides.

The average number of employees was 2,381, to whom \$8,194,415 were distributed in salaries and wages. Purchased materials, process supplies and containers cost \$10,472,651; fuels cost \$11,327,001; and 420,231,623 k.w.h. of purchased electricity cost \$2,426,973.

There was less cement imported, and more exported, in 1953 than in 1952. The imports were 2,482,783 barrels and exports were 14,728 barrels. The apparent consumption, as computed from shipments, plus imports, less exports, amounted to 24,706,390 barrels compared with 21,430,214 barrels in 1952.

**TABLE 1. Principal Statistics for the Cement Manufacturing Industry, 1944-1953**

| Year       | Number of plants | Number of employees | Salaries and wages | Cost of fuel and electricity at works | Cost <sup>1</sup> of process supplies, materials and containers, at works | Gross value of products sold during year, including containers (f.o.b. works) | Net <sup>2</sup> value of production |
|------------|------------------|---------------------|--------------------|---------------------------------------|---|---|--------------------------------------|
| 1944 ..... | 8                | 1,207               | 2,254,775          | 3,197,955                             | 2,566,432   | 12,646,741  | 6,882,354                            |
| 1945 ..... | 8                | 1,317               | 2,398,117          | 3,210,929                             | 2,794,676   | 15,422,031  | 9,416,426                            |
| 1946 ..... | 8                | 1,524               | 2,929,020          | 4,487,496                             | 4,306,467   | 21,724,021  | 12,930,058                           |
| 1947 ..... | 8                | 1,650               | 3,679,446          | 5,777,917                             | 4,354,657   | 23,582,011  | 13,449,437                           |
| 1948 ..... | 8                | 1,723               | 4,356,086          | 7,158,156                             | 5,699,042   | 30,561,717  | 17,704,519                           |
| 1949 ..... | 8                | 1,721               | 4,754,611          | 8,038,190                             | 5,949,640   | 35,065,152  | 21,077,322                           |
| 1950 ..... | 8                | 1,781               | 5,235,735          | 8,605,095                             | 6,504,314   | 38,200,513  | 23,091,104                           |
| 1951 ..... | 10               | 1,931               | 6,242,900          | 9,068,296                             | 7,324,048   | 43,023,845  | 26,631,501                           |
| 1952 ..... | 11               | 2,239               | 7,849,057          | 9,754,104                             | 8,611,572   | 51,029,930  | 32,664,254                           |
| 1953 ..... | 11               | 2,381               | 8,873,694          | 11,327,001                            | 10,472,651  | 62,227,924  | 40,428,272                           |

1. Includes process supplies, containers and raw materials.

2. Gross value less cost of materials, fuel and electricity.

## MINERAL STATISTICS

TABLE 2. Producers' Shipments<sup>1</sup> of Cement, by Provinces, 1951-1953

| Province               | 1951       |            | 1952       |            | 1953       |            |
|------------------------|------------|------------|------------|------------|------------|------------|
|                        | Barrels    | Value      | Barrels    | Value      | Barrels    | Value      |
|                        |            | \$         |            | \$         |            | \$         |
| Newfoundland .....     | —          | —          | 126,100    | 529,750    | 395,834    | 1,345,073  |
| New Brunswick .....    | —          | —          | 604,123    | 1,543,639  | 823,900    | 2,104,469  |
| Quebec .....           | 7,055,164  | 16,633,377 | 7,272,241  | 18,838,458 | 7,400,912  | 19,232,112 |
| Ontario .....          | 5,438,101  | 12,494,677 | 5,577,025  | 14,142,060 | 7,078,181  | 18,497,744 |
| Manitoba .....         | 1,539,612  | 4,108,752  | 1,612,795  | 4,636,604  | 1,614,301  | 4,676,137  |
| Alberta .....          | 1,649,909  | 3,898,043  | 1,886,544  | 4,765,686  | 3,098,664  | 7,915,227  |
| British Columbia ..... | 1,325,026  | 3,311,439  | 1,441,710  | 3,603,273  | 1,826,543  | 5,071,260  |
| Canada .....           | 17,007,812 | 40,446,288 | 18,520,538 | 48,059,470 | 22,238,335 | 58,842,022 |

1. Does not include the value of containers. Includes amounts used by the producers.

TABLE 3. Production, Imports and Exports of Cement, 1952 and 1953

|   | 1952                 |            | 1953                 |            |
|---|----------------------|------------|----------------------|------------|
|   | Barrels <sup>1</sup> | Value      | Barrels <sup>1</sup> | Value      |
|   |                      | \$         |                      | \$         |
| Output .....                                      | 18,405,003           | —          | 22,412,772           | —          |
| Shipments (sold or used by producers) .....       | 18,520,538           | 48,059,470 | 22,238,335           | 58,842,022 |
| Stocks on hand December 31 .....                  | 739,875              | —          | 896,651              | —          |
| Imports:  |                      |            |                      |            |
| Portland cement and hydraulic or water lime ..... | 2,913,981            | 9,068,181  | 2,482,783            | 7,403,158  |
| Portland cement clinker (white) .....             | 48,132               | 153,383    | 65,552               | 211,513    |
| Exports:  |                      |            |                      |            |
| Portland cement .....                             | 4,305                | 20,686     | 14,728               | 77,559     |
| Apparent consumption <sup>2</sup> .....           | 21,430,214           | —          | 24,706,390           | —          |

1. 1 barrel = 350 pounds.

2. Exclusive of clinker imported.

TABLE 4. Producers' Shipments and Apparent Consumption of Cement, 1944-1953

| Year       | Shipments (sold or used) |            | Imports   | Exports | Apparent consumption <sup>1</sup> |
|------------|--------------------------|------------|-----------|---------|-----------------------------------|
|            | Barrels                  | Value      |           |         |                                   |
|            |                          | \$         |           |         |                                   |
| 1944 ..... | 7,190,851                | 11,621,372 | 14,004    | 210,449 | 6,994,406                         |
| 1945 ..... | 8,471,679                | 14,246,480 | 32,653    | 281,944 | 8,222,388                         |
| 1946 ..... | 11,560,483               | 20,122,503 | 350,057   | 114,370 | 11,796,170                        |
| 1947 ..... | 11,936,245               | 21,968,909 | 1,248,625 | 88,030  | 13,096,840                        |
| 1948 ..... | 14,127,123               | 28,264,987 | 1,120,671 | 72,999  | 15,174,795                        |
| 1949 ..... | 15,916,564               | 32,901,936 | 2,284,000 | 19,212  | 18,181,352                        |
| 1950 ..... | 16,741,826               | 35,894,124 | 1,386,219 | 23,909  | 18,104,136                        |
| 1951 ..... | 17,007,812               | 40,446,288 | 2,327,431 | 2,590   | 19,332,653                        |
| 1952 ..... | 18,520,538               | 48,059,470 | 2,913,981 | 4,305   | 21,430,214                        |
| 1953 ..... | 22,238,335               | 58,842,022 | 2,482,783 | 14,728  | 24,706,390                        |

1. Shipments plus imports less exports.

TABLE 5. Producers' Shipments of Cement, by Months, 1952 and 1953

| Month          | 1952        | 1953      | Month           | 1952       | 1953       |
|----------------|-------------|-----------|-----------------|------------|------------|
|                | Tons        |           |                 | Tons       |            |
| January .....  | 857,398     | 1,038,573 | July .....      | 1,877,806  | 2,187,370  |
| February ..... | 1,184,013   | 1,179,271 | August .....    | 1,661,071  | 2,014,200  |
| March .....    | 1,507,239   | 1,803,688 | September ..... | 1,673,582  | 2,213,215  |
| April .....    | 1,584,070   | 1,972,328 | October .....   | 1,757,796  | 2,107,809  |
| May .....      | 2,017,682   | 2,251,114 | November .....  | 1,603,792  | 2,051,141  |
| June .....     | 1,745,018   | 2,192,700 | December .....  | 1,051,071  | 1,226,926  |
|                | Total ..... |           | Total .....     | 18,520,538 | 22,238,335 |

TABLE 6. Materials Used in Cement Plants, 1944-1953

| Year       | Cost at works of materials listed in following columns | \$      | Shale     | Limestone | Gypsum | Sand    | Clay   | Iron oxides <sup>1</sup> |
|------------|--|---------|-----------|-----------|--------|---------|--------|--------------------------|
|            |  |         | Tons      |           |        |         |        |                          |
| 1944 ..... | ---  | 74,303  | 1,865,597 | 42,672    | 23,942 | 173,728 | .      | 3,924                    |
| 1945 ..... | ---  | 70,600  | 1,849,259 | 45,883    | 29,424 | 161,980 | .      | 3,197                    |
| 1946 ..... | 505,994  | 99,355  | 2,525,653 | 65,431    | 31,222 | 227,645 | .      | 3,862                    |
| 1947 ..... | 651,521  | 43,154  | 3,057,675 | 81,946    | 36,223 | 279,635 | 5,145  |                          |
| 1948 ..... | 990,557  | 78,377  | 3,449,947 | 119,821   | 47,749 | 277,178 | 9,182  |                          |
| 1949 ..... | 1,161,010  | 76,200  | 3,985,407 | 137,785   | 48,124 | 325,037 | 11,885 |                          |
| 1950 ..... | 1,246,520  | 79,325  | 4,119,216 | 137,170   | 52,509 | 360,927 | 12,145 |                          |
| 1951 ..... | 1,391,842  | 87,081  | 4,246,501 | 146,603   | 60,015 | 405,159 | 10,552 |                          |
| 1952 ..... | 1,535,420  | 142,988 | 4,513,625 | 161,210   | 57,906 | 443,504 | 11,959 |                          |
| 1953 ..... | 2,029,172  | 249,209 | 5,330,778 | 199,743   | 58,548 | 571,069 | 20,703 |                          |

1. Produced from iron pyrites by the chemical industry.

TABLE 7. Coal Used in Cement Plants, 1944-1953

| Year       |  | Canadian |           | Foreign |           |
|------------|--|----------|-----------|---------|-----------|
|            |  | Tons     | Value     | Tons    | Value     |
|            |  | \$       |           | \$      |           |
| 1944 ..... |  | 108,292  | 731,706   | 219,802 | 1,634,690 |
| 1945 ..... |  | 121,299  | 823,988   | 206,995 | 1,566,420 |
| 1946 ..... |  | 172,081  | 1,237,718 | 289,046 | 2,233,402 |
| 1947 ..... |  | 188,457  | 1,485,039 | 371,849 | 3,130,050 |
| 1948 ..... |  | 328,422  | 2,965,986 | 300,191 | 2,842,549 |
| 1949 ..... |  | 440,038  | 1         | 231,870 | 1         |
| 1950 ..... |  | 453,930  | 1         | 228,797 | 1         |
| 1951 ..... |  | 421,812  | 1         | 244,250 | 1         |
| 1952 ..... |  | 346,255  | 1         | 281,970 | 1         |
| 1953 ..... |  | 363,054  | 3,553,974 | 353,450 | 3,485,822 |

1. Value is not available.

TABLE 8. Fuel and Electricity Used in Cement Plants, 1953

| Kind  | Unit of measure | Quantity    | Cost at plant     |
|---|-----------------|-------------|-------------------|
| Bituminous coal (a) From Canadian mines .....   | short ton       | 363,054     | 3,553,974         |
| (b) Imported .....  | " "             | 353,450     | 3,485,822         |
| Sub-bituminous coal (from Alberta mines only) .....                                       | " "             | —           | —                 |
| Anthracite coal .....   |                 | —           | —                 |
| Lignite coal .....  |                 | —           | —                 |
| Coke (for fuel only) .....  | short ton       | 39          | 1,531             |
| Gasoline, (include gasoline used in cars and trucks) .....                                | Imp. gal.       | 273,014     | 83,417            |
| Kerosene or coal oil .....  | " "             | 11,927      | 3,123             |
| Fuel oil (do not include lubricating oil) .....   | " "             | 16,261,696  | 1,198,691         |
| Wood (cords of 128 cubic feet of piled wood) .....  |                 | —           | —                 |
| Gas (a) Liquefied petroleum gases (propane, etc.) .....                                   |                 | —           | —                 |
| (b) Other manufactured gas .....  |                 | —           | —                 |
| (c) Natural gas .....   | M cu. ft.       | 3,422,656   | 573,470           |
| Other fuel (state kind and quantity) .....  |                 | —           | —                 |
| Electricity purchased for power and lighting (include service charge in cost)             | k.w.h.          | 420,231,623 | 2,426,973         |
| Electricity purchased for other purposes (specify) (include service charge in cost) ..... |                 | —           | —                 |
| <b>Total (cost only) .....</b>  |                 | —           | <b>11,327,001</b> |
| Electricity generated (a) For own use .....   | k.w.h.          | 983,049     |                   |
| (b) For sale .....  |                 | —           | —                 |

TABLE 9. Power Equipment (including stand-by or emergency equipment), 1953

| No. | Description  | Ordinarily in use |   | In reserve or idle |   |
|-----|--|-------------------|---|--------------------|---|
|     |  | Number of units   | Total h.p. (according to manufacturer's rating) | Number of units    | Total h.p. (according to manufacturer's rating) |
| 1   | Steam engines .....  | 1                 | 225   | —                  | —   |
| 2   | Steam turbines .....   | —                 | —   | —                  | —   |
| 3   | Diesel engines .....   | 20                | 2,967   | 2                  | 510   |
| 4   | Gasoline, gas and oil engines, other than Diesel engines .....       | 52                | 2,084   | 4                  | 97  |
| 5   | Hydraulic turbines or water-wheels .....                             | —                 | —   | —                  | —   |
| 6   | Electric motors — (except those reported under item 10):             |                   |   |                    |   |
|     | (a) Operated by purchased power .....                                | 3,077             | 111,452   | 255                | 8,728   |
| 7   | <b>Total (1), (2), (3), (4), (5) and (6a) .....</b>                  | <b>3,150</b>      | <b>116,728</b>                                  | <b>261</b>         | <b>9,335</b>                                    |
| 8   | (b) Operated by power generated by (1), (2), (3), (4), and (5) ..... | 40                | 1,031   | 6                  | 155   |
| 9   | Stationary boilers for power purposes only .....                     | —                 | —   | —                  | —   |
| 10  | Motor-generator sets .....   | 56                | 3,748   | 4                  | 678   |

TABLE 10. Number and Capacity of Kilns in Cement Plants, 1944-1953

| Year       | Total kilns |                                     | Kilns in use during the year |                                     |
|------------|-------------|-------------------------------------|------------------------------|-------------------------------------|
|            | Number      | Total capacity—barrels per 24 hours | Number                       | Total capacity—barrels per 24 hours |
| 1944 ..... | 19          | 33,250                              | 15                           | 30,150                              |
| 1945 ..... | 19          | 33,250                              | 15                           | 30,150                              |
| 1946 ..... | 18          | 33,550                              | 16                           | 31,640                              |
| 1947 ..... | 19          | 38,000                              | 19                           | 38,000                              |
| 1948 ..... | 20          | 41,000                              | 19                           | 40,300                              |
| 1949 ..... | 21          | 47,000                              | 19                           | 45,600                              |
| 1950 ..... | 19          | 45,800                              | 19                           | 45,800                              |
| 1951 ..... | 21          | 48,700                              | 21                           | 48,700                              |
| 1952 ..... | 24          | 56,900                              | 22                           | 50,400                              |
| 1953 ..... | 27          | 63,825                              | 26                           | 62,675                              |

TABLE 11. Employees and Their Earnings in the Cement Manufacturing Industry, 1949-1953

| Year       | Number of employees       |        |         |        | Number of man-hours worked (all employees) | Earnings      |                           |           |           |
|------------|---------------------------|--------|---------|--------|--|---------------|---------------------------|-----------|-----------|
|            | Office and administrative |        | Workmen |        |  | Total         | Office and administrative | Workmen   |           |
|            | Male                      | Female | Male    | Female |  |               |                           |           |           |
| 1949 ..... | 103                       | 9      | 1,602   | 7      | 1,721                                      | Not available | 356,287                   | 4,398,324 | 4,754,611 |
| 1950 ..... | 102                       | 10     | 1,665   | 4      | 1,781                                      | 4,448,162     | 384,563                   | 4,851,172 | 5,235,735 |
| 1951 ..... | 109                       | 11     | 1,809   | 2      | 1,931                                      | 4,624,879     | 468,679                   | 5,774,221 | 6,242,900 |
| 1952 ..... | 142                       | 17     | 2,076   | 4      | 2,239                                      | 5,081,639     | 625,568                   | 7,223,489 | 7,849,057 |
| 1953 ..... | 139                       | 17     | 2,222   | 3      | 2,381                                      | 5,342,651     | 679,279                   | 8,194,415 | 8,873,694 |

TABLE 12. Number of Workmen in the Cement Manufacturing Industry, by Months, 1952 and 1953

| Month  | 1952   |       |        |           | 1953   |       |        |           |
|--|--------|-------|--------|-----------|--------|-------|--------|-----------|
|  | Quarry | Mill  |        | Total     | Quarry | Mill  |        | Total     |
|  |        | Male  | Female |           |        | Male  | Female |           |
| January .....                                | 239    | 1,741 | 3      | 1,983     | 242    | 1,842 | 3      | 2,087     |
| February .....                               | 237    | 1,750 | 3      | 1,990     | 252    | 1,894 | 3      | 2,149     |
| March .....                                  | 232    | 1,777 | 3      | 2,012     | 249    | 1,885 | 3      | 2,137     |
| April .....                                  | 252    | 1,811 | 3      | 2,066     | 246    | 1,939 | 3      | 2,188     |
| May .....                                    | 254    | 1,857 | 4      | 2,115     | 267    | 2,017 | 3      | 2,287     |
| June .....                                   | 247    | 1,843 | 4      | 2,094     | 267    | 2,036 | 3      | 2,306     |
| July .....                                   | 237    | 1,865 | 4      | 2,106     | 259    | 2,062 | 3      | 2,324     |
| August .....                                 | 242    | 1,885 | 4      | 2,131     | 261    | 2,058 | 3      | 2,322     |
| September .....                              | 255    | 1,866 | 4      | 2,125     | 263    | 2,010 | 3      | 2,276     |
| October .....                                | 246    | 1,842 | 3      | 2,091     | 255    | 2,011 | 3      | 2,269     |
| November .....                               | 242    | 1,859 | 3      | 2,104     | 255    | 2,013 | 3      | 2,271     |
| December .....                               | 250    | 1,819 | 3      | 2,072     | 242    | 1,967 | 3      | 2,212     |
| Average .....                                | 247    | 1,829 | 4      | 2,080     | 253    | 1,969 | 3      | 2,225     |
| Number of man-hours worked during year ..... |        |       |        | 4,762,275 |        |       |        | 5,015,469 |

TABLE 13. World Production of Hydraulic Cement, by Countries<sup>1</sup>, 1948-1952(From the annual review published by the United States Bureau of Mines)<sup>1</sup>

| Country                                  | 1948             | 1949   | 1950               | 1951               | 1952               |
|--|------------------|--------|--------------------|--------------------|--------------------|
| (in thousands of metric tons)            |                  |        |                    |                    |                    |
| <b>North America:</b>                    |                  |        |                    |                    |                    |
| Canada (sold or used by producers) ..... | 2,243            | 2,527  | 2,658              | 2,700              | 2,940              |
| Cuba .....                               | 285              | 312    | 316                | 383 <sup>2</sup>   | 420                |
| Dominican Republic .....                 | 43               | 54     | 70                 | 104                | 137                |
| Guatemala .....                          | 32               | 36     | 42                 | 57                 | 60                 |
| Jamaica .....                            | —                | —      | —                  | —                  | 75                 |
| Mexico .....                             | 1,080            | 1,228  | 1,528              | 1,615              | 1,640              |
| Nicaragua .....                          | 16               | 16     | 17                 | 20                 | 19                 |
| Panama .....                             | 41               | 54     | 51                 | 75                 | 93                 |
| United States .....                      | 35,626           | 36,313 | 39,273             | 42,548             | 43,091             |
| <b>South America:</b>                    |                  |        |                    |                    |                    |
| Argentina .....                          | 1,252            | 1,452  | 1,572              | 1,543              | 1,536              |
| Bolivia .....                            | 39               | 42     | 38                 | 39                 | 37                 |
| Brazil .....                             | 1,112            | 1,281  | 1,386              | 1,456              | 1,616              |
| Chile .....                              | 540              | 495    | 513                | 698                | 838                |
| Colombia .....                           | 364              | 475    | 580                | 648                | 707                |
| Ecuador .....                            | 40               | 52     | 58                 | 79                 | 89                 |
| Paraguay .....                           | —                | —      | —                  | —                  | 4                  |
| Peru .....                               | 282              | 289    | 331                | 367                | 370                |
| Uruguay .....                            | 287              | 293    | 305                | 301                | 300                |
| Venezuela .....                          | 215              | 285    | 501                | 621                | 840                |
| <b>Europe:</b>                           |                  |        |                    |                    |                    |
| Austria .....                            | 721              | 1,091  | 1,289              | 1,475              | 1,402              |
| Belgium .....                            | 3,331            | 2,925  | 3,557              | 4,395              | 4,111              |
| Bulgaria .....                           | 325 <sup>2</sup> | 3      | 3                  | 3                  | 3                  |
| Czechoslovakia .....                     | 1,650            | 1,738  | 1,875 <sup>4</sup> | 2,000 <sup>4</sup> | 2,520 <sup>4</sup> |
| Denmark .....                            | 769              | 834    | 873                | 985                | 1,211              |
| Finland .....                            | 556              | 656    | 743                | 829                | 778                |
| France .....                             | 5,379            | 6,443  | 7,208              | 8,125              | 8,645              |
| <b>Germany:</b>                          |                  |        |                    |                    |                    |
| West Germany .....                       | 5,581            | 8,460  | 10,877             | 12,204             | 12,886             |
| East Germany .....                       | 765              | 1,000  | 3                  | 3                  | 3                  |
| Greece .....                             | 278              | 330    | 399                | 433                | 596                |
| Hungary <sup>2</sup> .....               | 300              | 550    | 800                | 800                | 800                |
| Ireland .....                            | 398              | 431    | 444                | 426                | 3                  |
| Italy .....                              | 3,144            | 4,037  | 5,004              | 5,578              | 6,652              |
| Luxembourg .....                         | 102              | 121    | 125                | 132                | 114                |
| Netherlands .....                        | 589              | 552    | 593                | 702                | 813                |
| Norway .....                             | 526              | 593    | 582                | 720                | 725                |
| Poland .....                             | 1,824            | 2,342  | 2,512              | 2,688              | 2,660              |
| Portugal .....                           | 498              | 521    | 573                | 644                | 727                |
| Rumania .....                            | 452              | 560    | 650                | 733                | 3                  |
| Saar .....                               | 160              | 206    | 208                | 234                | 238                |
| Spain .....                              | 2,331            | 2,248  | 2,522              | 2,742              | 2,463              |
| Sweden .....                             | 1,486            | 1,698  | 1,936              | 2,035              | 2,054              |
| Switzerland .....                        | 1,022            | 977    | 1,078              | 1,315              | 3                  |

TABLE 13. World Production of Hydraulic Cement, by Countries, 1948-1952 — Concluded

(From the annual review published by the United States Bureau of Mines)<sup>1</sup>

| Country                             | 1948               | 1949            | 1950            | 1951             | 1952                |
|-------------------------------------|--------------------|-----------------|-----------------|------------------|---------------------|
| (in thousands of metric tons)       |                    |                 |                 |                  |                     |
| Europe -- concluded:                |                    |                 |                 |                  |                     |
| U.S.S.R. <sup>2</sup> .....         | 6,600              | 8,000           | 10,500          | 12,400           | 15,420 <sup>4</sup> |
| United Kingdom .....                | 8,657              | 9,364           | 9,913           | 10,388           | 11,314              |
| Yugoslavia .....                    | 1,188              | 1,288           | 1,219           | 1,159            | 1,313               |
| Asia:                               |                    |                 |                 |                  |                     |
| Ceylon.....                         | —                  | —               | —               | 63               | 61                  |
| China <sup>2</sup> .....            | 200                | 450             | 800             | 1,300            | 2,000               |
| Hong Kong .....                     | 53                 | 59              | 68              | 72               | 70                  |
| India .....                         | 1,578              | 2,136           | 2,652           | 3,252            | 3,612               |
| Indochina .....                     | 97                 | 154             | 144             | 212              | 235                 |
| Indonesia .....                     | 38                 | 3               | 3               | 100 <sup>2</sup> | 137                 |
| Iran .....                          | 65 <sup>5</sup>    | 59 <sup>5</sup> | 64 <sup>5</sup> | 65 <sup>5</sup>  | 65                  |
| Iraq .....                          | —                  | 7               | 66              | 75 <sup>6</sup>  | 200 <sup>2</sup>    |
| Israel.....                         | 160                | 241             | 380             | 439              | 446                 |
| Japan .....                         | 1,859              | 3,277           | 4,463           | 6,548            | 7,117               |
| Korea (Republic of) .....           | 17                 | 24              | 10              | 7                | 36                  |
| Lebanon .....                       | 209                | 233             | 263             | 303              | 281                 |
| Pakistan .....                      | 329                | 429             | 421             | 507              | 544                 |
| Philippines (Republic of the) ..... | 120                | 201             | 292             | 309              | 310                 |
| Syria .....                         | 54                 | 53              | 68              | 64               | 151                 |
| Taiwan (Formosa) <sup>2</sup> ..... | 236                | 291             | 332             | 389              | 446                 |
| Thailand (Siam) .....               | 83                 | 127             | 166             | 312              | 247                 |
| Turkey .....                        | 345                | 375             | 388             | 396              | 459                 |
| Africa:                             |                    |                 |                 |                  |                     |
| Algeria .....                       | 130                | 128             | 324             | 448              | 470                 |
| Belgian Congo .....                 | 127                | 144             | 174             | 205              | 240                 |
| Egypt .....                         | 768                | 889             | 900             | 1,145            | 947                 |
| Ethiopia <sup>2</sup> .....         | 8                  | 8               | 6               | 6                | 6                   |
| French Morocco .....                | 262                | 264             | 321             | 377              | 435                 |
| French West Africa .....            | —                  | 44              | 60              | 55               | 80                  |
| Madagascar .....                    | 4                  | 7               | 5               | 5                | 3                   |
| Mozambique .....                    | 37                 | 46              | 50              | 78               | 80 <sup>2</sup>     |
| Northern Rhodesia .....             | —                  | —               | —               | 55               | 55                  |
| Southern Rhodesia .....             | 71                 | 83              | 156             | 163              | 216 <sup>2</sup>    |
| Tunisia .....                       | 162                | 168             | 169             | 187              | 208                 |
| Union of South Africa .....         | 1,308              | 1,363           | 1,847           | 1,954            | 2,027               |
| Oceania:                            |                    |                 |                 |                  |                     |
| Australia .....                     | 1,030 <sup>7</sup> | 1,076           | 1,278           | 1,236            | 1,357               |
| New Zealand .....                   | 247                | 254             | 256             | 163              | 3                   |
| Total (estimate).....               | 102,000            | 115,000         | 132,300         | 148,400          | 159,000             |

1. This table incorporates a number of revisions of data published in previous cement chapters.

2. Estimate.

3. Data not available.

4. Planned production.

5. Year ended March 20 of year following that stated.

6. Year ended March 31 of year following that stated.

7. Year ended June 30 of year stated.



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## Directory of Cement Producers, 1953

| Name of firm   | Head office address  | Location of plant                                |
|--|--|--|
| <b>Newfoundland:</b><br>North Star Cement Co. Ltd. ....  | Corner Brook .....   | Corner Brook                                     |
| <b>New Brunswick:</b><br>Canada Cement Company Limited.....  | Box 290, Station B, Montreal, Quebec .....   | Havelock   |
| <b>Quebec:</b><br>Canada Cement Company Limited .....<br>Ciment Québec Inc. ....<br>St. Lawrence Cement Co. <sup>1</sup> ..... | Box 290, Station B, Montreal, Quebec .....,<br>St-Basile, Cté Portneuf, Québec .....,<br>Blvd. Ste. Anne, Villeneuve, Quebec ..... | {Hull<br>Montréal Est<br>St-Basile<br>Villeneuve |
| <b>Ontario:</b><br>Canada Cement Company Limited.....<br>St. Mary's Cement Co. Limited .....                                   | Box 290, Station B, Montreal, Quebec .....,<br>357 Bay St., Toronto, Ontario .....   | {Belleville<br>Port Colborne<br>St. Marys        |
| <b>Manitoba:</b><br>Canada Cement Company Limited.....   | Box 290, Station B, Montreal, Quebec .....   | Fort Whyte                                       |
| <b>Alberta:</b><br>Canada Cement Company Limited .....   | Box 290, Station B, Montreal, Quebec .....   | Exshaw   |
| <b>British Columbia:</b><br>British Columbia Cement Co. Limited .....  | 500 Fort St., Victoria, British Columbia .....   | Bamberton  |

1. Not yet in production; construction only.