

STONE.^a

INTRODUCTION.

The effort is made in these annual reports to record the significant changes in the stone industry during the year under review. The most precise summary of the general condition of the stone trade as a whole is best shown by the total value of the stone product. The fluctuations of this net result form a valuable barometer as to the general prosperity of the business. A general review of these totals for a succession of years shows a rather phenomenal growth in the use of building stone, but a decrease of this product for the year just passed, and also an increasing production of crushed stone, which has advanced from a small and unimportant industry to one now representing one-fifth of the entire stone output.

In classifying the various kinds of stone many essentially different rocks are, for simplicity of treatment, grouped in the following classes: Granite, bluestone, marble, trap rock, limestone, sandstone, and slate. This classification was explained in detail in the report for 1902.

PRODUCTION.

In making the statements as to the value of the stone the figures given represent as nearly as it was possible to obtain them the value of the stone as it left the hands of the producer, exclusive of any cost of shipment. When the stone was sold by the producer to the manufacturers in the rough state, the value is so given; and when the producer dressed his own stone, the value given is the dressed value. This applies particularly to the rough and the dressed granite, sandstone, and marble used for building and for monumental work.

The total value of the stone reported to this office in 1903 was \$67,960,468. The value in 1902 was \$64,559,099. This shows a gain in 1903 of \$3,401,369. The corresponding gain in 1902 over 1901 when the figures were \$55,615,926, was \$8,943,173—a larger increase in 1902 than in 1903.

Limestone, not including furnace flux, increased more in value of production than any other kind of stone, the figures for 1903 being

^a The collection of these statistics and the compilation of the returns have been carried on as in previous years by Miss Altha T. Coons, statistical expert of this office, who has also prepared the entire report on stone tests and analyses.—D. T. DAY.

\$26,642,551 and for 1902 \$24,959,751, a gain of \$1,682,800 for 1903. The value of limestone used for blast-furnace flux, and not included in the above, increased from \$5,271,252 in 1902 to \$5,423,732 in 1903, a gain of \$152,480, making the total gain in the limestone output \$1,835,280.

Granite, including trap rock, increased from \$18,257,944 in 1902 to \$18,436,087 in 1903, or \$178,143. The trap rock production increased from \$2,181,157 in 1902 to \$2,732,294 in 1903, a gain of \$551,137. The granite decreased from \$16,076,787 in 1902 to \$15,703,793 in 1903, a decrease of \$372,994.

Sandstone, including bluestone, but not including grindstones and whetstones, increased from \$10,601,171 in 1902 to \$11,262,259 in 1903, a gain of \$661,088. The value of bluestone, included in the above figures, was \$1,163,525 in 1902 and \$1,779,457 in 1903, a gain of \$615,932 for 1903.

The sandstone figures increased from \$9,437,646 in 1902 to \$9,482,802 in 1903, a gain of \$45,156.

The value of the marble increased \$318,504, from \$5,044,182 in 1902 to \$5,362,686 in 1903.

The slate output increased \$560,834 in value, from \$5,696,051 in 1902 to \$6,256,885 in 1903.

The figures as given in the table which follows do not include values of stone quarried for the following purposes: Sandstone converted into grindstones, whetstones, and other abrasive materials; sandstone quarried and crushed into sand for the manufacture of glass; bituminous limestone and sandstone used in making asphalt pavements and asphalt blocks; limestone used in blast furnaces, although the statistics of the furnace flux are shown under the part of the report treating of limestone; and limestone used in the manufacture of Portland cement.

The statistics of stone used for abrasives is shown in the report on abrasives published by this office.

Value of the different kinds of stone produced in the United States, 1894-1903.

| Year. | Granite. | Trap Rock. | Marble. | Slate. | Sandstone. | Bluestone. | Limestone. | Total. |
|----------|--------------|-------------|-------------|-------------|--------------------|--------------------|---------------------|--------------|
| 1894.... | \$10,029,156 | ..... | \$3,199,585 | \$2,790,324 | \$3,955,847 | <i>a</i> \$900,000 | \$16,190,118 | \$37,065,030 |
| 1895.... | 8,894,328 | ..... | 2,825,719 | 2,698,700 | 4,211,314 | <i>a</i> 750,000 | 15,308,755 | 34,688,816 |
| 1896.... | 7,944,994 | ..... | 2,859,136 | 2,746,205 | 4,023,199 | <i>a</i> 750,000 | 13,022,637 | 31,346,171 |
| 1897.... | 8,905,075 | ..... | 3,870,584 | 3,524,614 | 4,065,445 | <i>a</i> 900,000 | 14,804,933 | 36,070,651 |
| 1898.... | 9,324,406 | ..... | 3,629,940 | 3,723,540 | 4,724,412 | <i>a</i> 1,000,000 | <i>c</i> 14,204,966 | 36,607,264 |
| 1899.... | 10,343,298 | \$1,275,041 | 4,011,681 | 3,962,733 | <i>b</i> 4,924,670 | 815,284 | <i>c</i> 16,177,164 | 41,509,871 |
| 1900.... | 10,969,417 | 1,706,200 | 4,267,253 | 4,240,466 | <i>b</i> 5,272,865 | 1,198,519 | <i>c</i> 16,666,625 | 44,321,345 |
| 1901.... | 14,266,104 | 1,710,857 | 4,965,699 | 4,787,525 | <i>b</i> 6,974,199 | 1,164,481 | <i>c</i> 21,747,061 | 55,615,926 |
| 1902.... | 16,076,787 | 2,181,157 | 5,044,182 | 5,696,051 | <i>b</i> 9,437,646 | 1,163,525 | <i>c</i> 24,959,751 | 64,559,099 |
| 1903.... | 15,703,793 | 2,732,294 | 5,362,686 | 6,256,885 | <i>b</i> 9,482,802 | 1,779,457 | <i>c</i> 26,642,551 | 67,960,468 |

a Estimated.

b Does not include value of grindstones and whetstones.

c Does not include value of limestone for flux.

The following tables show the value of stone produced in the United States in 1902 and 1903, by States:

Value of various kinds of stone produced in 1902 and 1903, by States.

1902.

| State. | Granite. | Sandstone. | Slate. | Marble. | Limestone. | Total value. |
|------------------------|--------------|--------------|-----------|-----------|--------------|--------------|
| Alabama | | \$42,706 | | (a) | \$759,617 | \$802,323 |
| Arizona | \$3,000 | 107,910 | | | | 110,910 |
| Arkansas | 12,115 | 85,917 | \$4,000 | (a) | 113,163 | 211,195 |
| California | b 1,137,679 | 462,328 | 31,500 | \$92,298 | 496,843 | 2,189,148 |
| Colorado | 66,023 | 366,161 | | | 203,700 | 635,884 |
| Connecticut | b 812,141 | 128,579 | | (a) | 205,371 | 1,146,091 |
| Delaware | 276,753 | | | | | 276,753 |
| Florida | | | | | 63,571 | 63,571 |
| Georgia | 803,778 | 1,250 | 4,000 | 660,517 | 111,589 | 1,577,134 |
| Hawaii | | 6,688 | | | | 6,688 |
| Idaho | 940 | 13,777 | | | 15,074 | 29,791 |
| Illinois | | 32,200 | | | 3,222,608 | 3,254,808 |
| Indiana | | 37,593 | | | 2,865,691 | 2,903,284 |
| Indian Territory | 11,970 | | | | | 11,970 |
| Iowa | | 15,061 | | (a) | 649,984 | 665,045 |
| Kansas | | 105,509 | | | 670,536 | 776,045 |
| Kentucky | | 128,470 | | | 593,747 | 722,217 |
| Maine | 2,659,450 | | 206,558 | | 745,132 | 3,611,140 |
| Maryland | 758,203 | 15,405 | 118,084 | (a) | 453,030 | 1,344,722 |
| Massachusetts | b 3,461,397 | 487,366 | | 165,489 | 339,349 | 4,443,601 |
| Michigan | | 188,073 | | | 621,380 | 809,453 |
| Minnesota | 478,989 | 347,472 | | | 830,857 | 1,657,318 |
| Missouri | 157,708 | 56,990 | | | 1,697,139 | 1,911,837 |
| Montana | 77,050 | 85,162 | | (a) | 104,725 | 266,927 |
| Nebraska | | 168 | | | 145,473 | 145,641 |
| Nevada | 2,090 | 6,115 | | | 2,800 | 11,005 |
| New Hampshire | 1,147,097 | | | | | 1,147,097 |
| New Jersey | b 948,474 | 406,726 | 32,000 | | 181,650 | 1,536,850 |
| New Mexico | | 12,291 | | (a) | | 12,291 |
| New York | b 651,014 | c 1,408,099 | 126,718 | 577,298 | 2,419,121 | 5,182,850 |
| North Carolina | 338,750 | 4,825 | | | 23,153 | 366,728 |
| Ohio | | 2,078,754 | | | 3,201,718 | 5,280,472 |
| Oklahoma | | 24,200 | | | 50,541 | 74,741 |
| Oregon | 38,429 | 1,109 | | | 20,133 | 59,671 |
| Pennsylvania | b 661,062 | c 2,890,108 | 3,547,322 | 160,423 | 5,420,287 | 12,589,202 |
| Rhode Island | 734,623 | | | | 33,814 | 768,437 |
| South Carolina | 598,848 | | | | 37,850 | 636,698 |
| South Dakota | | 110,789 | | | 86,605 | 197,394 |
| Tennessee | | 7,670 | | 518,256 | 482,033 | 1,007,959 |
| Texas | 60,003 | 165,565 | | | 228,662 | 454,230 |
| Utah | 1,479 | 105,011 | | (a) | 186,663 | 293,153 |
| Vermont | 1,570,423 | | 1,464,918 | 2,628,164 | 225,703 | 5,889,208 |
| Virginia | 282,046 | 2,500 | 160,951 | | 534,113 | 979,610 |
| Washington | 147,273 | 30,725 | | 61,176 | 213,814 | 452,988 |
| West Virginia | | 428,532 | | | 616,366 | 1,039,898 |
| Wisconsin | 369,137 | 207,086 | | | 1,351,058 | 1,927,281 |
| Wyoming | | 90,691 | | | 6,340 | 97,031 |
| Other States | | | | c 180,561 | | 252,061 |
| Total | b 18,257,944 | c 10,601,171 | 5,696,051 | 5,044,182 | a 30,231,003 | e 69,830,351 |

a Included in other States.

b Includes trap rock.

c Includes bluestone.

d Includes Alabama, Arkansas, Connecticut, Iowa, Maryland, Montana, New Mexico, and Utah.

e Includes blast-furnace flux.

Value of various kinds of stone produced in 1902 and 1903, by States—Continued.

1903.

| State. | Granite. | Sandstone. | Slate. | Marble. | Limestone. | Total value. |
|------------------------|---------------------|---------------------|-----------|-----------------|---------------------|---------------------|
| Alabama | | \$42,933 | | (a) | \$719,404 | \$762,337 |
| Arizona | \$8,000 | 526,875 | | (a) | 1,260 | 531,135 |
| Arkansas | 47,136 | 61,172 | \$4,709 | | 242,628 | 355,645 |
| California | <i>b</i> 1,627,592 | 762,327 | 70,000 | \$78,329 | 611,126 | 3,149,374 |
| Colorado | 100,791 | 389,132 | | | 218,120 | 708,043 |
| Connecticut | <i>b</i> 1,101,425 | 119,417 | | (a) | 154,536 | 1,149,374 |
| Delaware | 369,166 | | | | | 369,166 |
| Florida | | | | | 64,893 | 64,893 |
| Georgia | 672,947 | | | 565,605 | 73,352 | 1,311,904 |
| Hawaii | | | | | | |
| Idaho | <i>a</i> 2,750 | 11,856 | | | 18,952 | 33,558 |
| Illinois | | 26,293 | | | 3,206,271 | 3,232,564 |
| Indiana | | 32,651 | | | 2,935,274 | 2,967,925 |
| Indian Territory | 4,030 | | | | 1,450 | 5,480 |
| Iowa | | 19,011 | | | 635,431 | 654,442 |
| Kansas | | 102,128 | | | 495,069 | 597,197 |
| Kentucky | | 93,742 | | | 746,590 | 840,332 |
| Maine | 2,586,765 | | 231,230 | | 793,553 | 3,611,548 |
| Maryland | 837,787 | 2,170 | 137,631 | 83,672 | 386,226 | 1,447,486 |
| Massachusetts | <i>b</i> 2,720,066 | 372,478 | | 154,228 | 272,471 | 3,519,243 |
| Michigan | | 121,350 | | | 609,082 | 730,432 |
| Minnesota | 403,906 | 363,262 | | | 676,090 | 1,443,258 |
| Missouri | 150,409 | 49,402 | | (a) | 2,516,688 | 2,716,499 |
| Montana | 25,993 | 68,036 | | (a) | 152,694 | 246,723 |
| Nebraska | | 1,067 | | | 187,718 | 188,785 |
| Nevada | 7,450 | 2,370 | | | 2,400 | 12,220 |
| New Hampshire | 854,513 | | | | | 854,513 |
| New Jersey | <i>b</i> 943,171 | <i>a</i> 364,337 | (c) | | 187,711 | 1,495,219 |
| New Mexico | | 7,510 | | | 1,000 | 8,510 |
| New York | 549,015 | <i>d</i> 1,756,501 | 145,401 | 748,160 | 2,543,756 | 5,742,833 |
| North Carolina | 218,947 | 600 | | 4,365 | 600 | 224,512 |
| Ohio | | 1,793,379 | | | 3,320,672 | 5,114,051 |
| Oklahoma | 5,000 | 6,500 | | | 54,690 | 66,190 |
| Oregon | 118,411 | 2,912 | | | 16,684 | 138,007 |
| Pennsylvania | <i>b</i> 829,535 | <i>d</i> 3,255,073 | 3,959,906 | 93,200 | 5,775,506 | 13,913,220 |
| Rhode Island | 710,291 | | | | 39,315 | 749,606 |
| South Carolina | 476,863 | | | | 44,780 | 521,643 |
| South Dakota | | 163,067 | | | 39,266 | 202,333 |
| Tennessee | | 20,649 | | 485,905 | 555,574 | 1,062,128 |
| Texas | 173,325 | 114,381 | | | 262,053 | 549,759 |
| Utah | 3,803 | 71,279 | | 3,200 | 618,900 | 697,182 |
| Vermont | 1,810,179 | | 1,502,652 | 3,011,505 | 190,724 | 6,605,060 |
| Virginia | 299,335 | 4,471 | 115,356 | | 569,205 | 988,367 |
| Washington | 209,095 | 47,430 | | 40,117 | 297,701 | 594,343 |
| West Virginia | | 252,204 | | | 558,024 | 810,228 |
| Wisconsin | 573,391 | 142,445 | | | 1,256,661 | 1,972,497 |
| Wyoming | | 91,849 | | 3,100 | 12,183 | 107,132 |
| Other States | | | | <i>e</i> 91,300 | | 91,300 |
| Total | <i>b</i> 18,436,087 | <i>d</i> 11,262,259 | 6,256,885 | 5,362,686 | <i>f</i> 32,006,283 | <i>f</i> 73,384,200 |

a Included in other States.

b Includes trap rock.

c Included in New York.

d Includes bluestone.

e Includes Alabama, Arizona, Connecticut, Missouri, and Montana.

f Includes blast-furnace flux.

The following table is given to show the total values of the stone used for various purposes in 1902 and 1903. Only those values are given which are for uses common to two or more varieties of stone.

Value of granite, sandstone, limestone, and marble used for various purposes in 1902 and 1903.

1902.

| Kind. | Building (rough and dressed). | Monumental (rough and dressed). | Flagstone. | Curbstone. | Paving. | Crushed stone. |
|-----------------|-------------------------------------|---------------------------------------|------------|------------|-------------|-------------------|
| Granite | \$7,034,832 | \$3,998,911 | \$52,880 | \$823,846 | \$1,523,776 | \$3,211,780 |
| Sandstone | 6,007,484 | ..... | 1,142,699 | 672,654 | 527,617 | 1,116,449 |
| Limestone | 5,563,084 | ..... | 241,688 | 331,968 | ..... | 7,152,730 |
| Marble | 2,184,941 | 1,942,674 | ..... | ..... | ..... | ..... |
| Total | 20,790,341 | 5,941,585 | 1,437,267 | 1,828,468 | 2,051,393 | 11,480,959 |

1903.

| | | | | | | |
|-----------------|-------------|-------------|-------------|-----------|-------------|-------------|
| Granite | \$6,192,145 | \$3,808,417 | \$91,142 | \$701,018 | \$1,954,266 | \$3,780,487 |
| Sandstone | 6,403,969 | ..... | 1,164,156 | 1,003,528 | 696,053 | 827,585 |
| Limestone | 4,981,241 | ..... | 166,961 | 355,167 | 515,760 | 8,580,866 |
| Marble | 2,218,136 | 1,958,943 | ..... | ..... | ..... | ..... |
| Total | 19,795,491 | 5,767,360 | * 1,422,259 | 2,059,713 | 3,166,079 | 13,188,938 |

As will be seen from this table the value of stone used for building decreased—from \$20,790,341 in 1902 to \$19,795,491 in 1903—a loss of \$994,850. In 1902 the increase in value over 1901 was \$3,953,960, which was more than the decrease for 1903, and in 1901 the increase over 1900 was \$4,440,002.

There was also a decrease to \$5,767,360 in the value of the monumental stone quarried in 1903, from \$5,941,585 in 1902, a loss of \$174,225. In 1902 the increase of this product over 1901 was \$1,206,886.

These decreases in the building and monumental stone industries were almost entirely due to labor troubles, builders' strikes, and the consequent small demand and low price for cut stone as compared with cost of production, which prevented large producers from taking contracts calling for cut stone.

The value of the flagstone output remained practically the same as in 1902, there being a slight decrease, from \$1,437,267 in 1902 to \$1,422,259 in 1903.

The value of the curbstone reported increased from \$1,828,468 in 1902 to \$2,059,713 in 1903, a gain of \$231,245.

Stone for paving increased from \$2,051,393 in 1902 to \$3,166,079 in 1903, a gain of \$1,114,686.

Crushed stone increased from \$11,480,959 in 1902 to \$13,188,938 in 1903, an increase of \$1,707,979.

The following tables show the value of crushed stone in 1902 and 1903 according to the variety of stone, and according, also, to the purpose for which this stone was used:

Value of crushed stone in the United States in 1902 and 1903.

1902.

| Kind. | Railroad ballast. | Road making. | Concrete. | Total value. |
|-----------------|-------------------|--------------|-------------|--------------|
| Limestone | \$2,661,081 | \$2,890,985 | \$1,600,664 | \$7,152,730 |
| Sandstone | 347,869 | 442,113 | 326,467 | 1,116,449 |
| Granite | 574,780 | 1,902,439 | 734,561 | 3,211,780 |
| Total..... | 3,583,730 | 5,235,537 | 2,661,692 | 11,480,959 |

1903.

| | | | | |
|-----------------|-------------|-------------|-------------|-------------|
| Limestone | \$3,105,602 | \$2,997,547 | \$2,477,717 | \$8,580,866 |
| Sandstone | 287,988 | 289,325 | 250,272 | 827,585 |
| Granite | 750,142 | 1,896,191 | 1,134,154 | 3,780,487 |
| Total..... | 4,143,732 | 5,183,063 | 3,862,143 | 13,188,938 |

As will be seen from these tables, the value of stone used for concrete increased more than that of stone used for either ballast or road making in 1903 as compared with 1902, the value of stone used for road making decreasing slightly.

In the following tables is shown the total value of the crushed stone produced in the United States in 1902 and 1903, by States:

Value of crushed stone produced in the United States in 1902 and 1903, by States.

1902.

| State. | Granite. | Limestone. | Sandstone. | Total value. |
|-----------------------|-----------|------------|------------|--------------|
| Alabama..... | | \$12,890 | \$200 | \$13,090 |
| Arkansas..... | \$11,000 | 22,510 | 44,746 | 78,256 |
| California..... | 266,103 | 26,900 | 187,750 | 480,753 |
| Colorado..... | 3,750 | | 71,008 | 74,758 |
| Connecticut..... | 295,063 | | | 295,063 |
| Delaware..... | 109,462 | | | 109,462 |
| Florida..... | | 11,008 | | 11,008 |
| Georgia..... | 43,910 | 12,310 | | 56,220 |
| Hawaii..... | | | 6,688 | 6,688 |
| Illinois..... | | 1,220,772 | 25 | 1,220,797 |
| Indiana..... | | 274,491 | 1,000 | 275,491 |
| Indian Territory..... | 320 | | | 320 |
| Iowa..... | | 153,372 | 785 | 154,157 |
| Kansas..... | | 383,904 | 42,050 | 425,954 |
| Kentucky..... | | 327,217 | 55,000 | 382,217 |
| Maine..... | 9,944 | | | 9,944 |
| Maryland..... | 155,761 | 95,966 | 5,965 | 257,692 |
| Massachusetts..... | 427,035 | 1,093 | 296,529 | 724,657 |
| Michigan..... | | 146,501 | | 146,501 |
| Minnesota..... | 15,660 | 128,244 | 21,099 | 165,003 |
| Missouri..... | 38,044 | 502,741 | 1,350 | 542,135 |
| Montana..... | | | 750 | 750 |
| Nebraska..... | | 52,742 | 43 | 52,785 |
| New Hampshire..... | 26,550 | | | 26,550 |
| New Jersey..... | 753,005 | 580 | 30,930 | 784,515 |
| New York..... | 318,003 | 1,084,594 | 59,552 | 1,462,149 |
| North Carolina..... | 67,196 | 21,063 | | 88,259 |
| Ohio..... | | 951,751 | 8,304 | 960,055 |
| Oklahoma..... | | 9,000 | 800 | 9,800 |
| Oregon..... | 14,150 | | 228 | 14,378 |
| Pennsylvania..... | 386,774 | 1,149,355 | 179,305 | 1,715,434 |
| Rhode Island..... | 15,410 | | | 15,410 |
| South Carolina..... | 60,233 | 350 | | 60,583 |
| South Dakota..... | | 9,600 | 168 | 9,768 |
| Tennessee..... | | 70,713 | | 70,713 |
| Texas..... | | 18,993 | 42,207 | 61,200 |
| Utah..... | | 400 | | 400 |
| Vermont..... | 6,373 | 1,387 | | 7,760 |
| Virginia..... | 78,275 | 19,455 | | 97,730 |
| Washington..... | 22,974 | | | 22,974 |
| West Virginia..... | | 157,351 | 25,041 | 182,392 |
| Wisconsin..... | 86,785 | 285,477 | 764 | 373,026 |
| Wyoming..... | | | 34,162 | 34,162 |
| Total..... | 3,211,780 | 7,152,730 | 1,116,449 | 11,480,959 |

Value of crushed stone produced in the United States in 1902 and 1903, by States—Cont'd.

1903.

| State. | Granite. | Limestone. | Sandstone. | Total value. |
|-----------------------|-----------|------------|------------|--------------|
| Alabama..... | | \$460 | | \$460 |
| Arizona..... | | | \$13,125 | 13,125 |
| Arkansas..... | \$44,136 | 5,813 | 13,076 | 63,025 |
| California..... | 387,228 | 92,245 | 80,920 | 560,393 |
| Colorado..... | 600 | | 37,635 | 38,235 |
| Connecticut..... | 207,607 | | | 207,607 |
| Delaware..... | 83,221 | | | 83,221 |
| Florida..... | | 3,256 | | 3,256 |
| Georgia..... | 59,762 | 7,600 | | 67,362 |
| Hawaii..... | | | | |
| Illinois..... | | 1,382,823 | | 1,382,823 |
| Indiana..... | | 332,644 | 5,000 | 337,644 |
| Indian Territory..... | | 650 | | 650 |
| Iowa..... | | 177,484 | 382 | 177,866 |
| Kansas..... | | 256,228 | 31,850 | 288,078 |
| Kentucky..... | | 450,320 | 1,100 | 451,420 |
| Maine..... | 11,678 | | | 11,678 |
| Maryland..... | 220,555 | 48,464 | 1,375 | 270,394 |
| Massachusetts..... | 447,674 | 50 | 204,719 | 652,443 |
| Michigan..... | | 145,186 | 5,500 | 150,686 |
| Minnesota..... | 22,140 | 109,040 | 20,721 | 151,901 |
| Missouri..... | 42,827 | 1,041,656 | 24 | 1,084,507 |
| Montana..... | | | 165 | 165 |
| Nebraska..... | | 74,452 | 30 | 74,482 |
| New Hampshire..... | 16,407 | | | 16,407 |
| New Jersey..... | 811,671 | 2,408 | 1,950 | 816,029 |
| New Mexico..... | | | 250 | 250 |
| New York..... | 404,694 | 1,234,214 | 29,394 | 1,668,302 |
| North Carolina..... | 100,432 | | | 100,432 |
| Ohio..... | | 1,075,866 | 38,288 | 1,114,154 |
| Oklahoma..... | | 30,000 | 600 | 30,600 |
| Oregon..... | 16,500 | | 97 | 16,597 |
| Pennsylvania..... | 478,200 | 1,413,770 | 224,813 | 2,116,783 |
| Rhode Island..... | 20,628 | 300 | | 20,928 |
| South Carolina..... | 57,577 | 850 | | 58,427 |
| South Dakota..... | | 19,026 | 6,000 | 25,026 |
| Tennessee..... | | 108,768 | 93 | 108,861 |
| Texas..... | 64,750 | 58,631 | 22,300 | 145,681 |
| Utah..... | | | | |
| Vermont..... | 9,541 | 3,345 | | 12,886 |
| Virginia..... | 110,005 | 25,743 | 803 | 136,551 |
| Washington..... | 13,239 | 1,950 | | 15,189 |
| West Virginia..... | | 148,446 | 15,202 | 163,648 |
| Wisconsin..... | 149,415 | 329,178 | 1,550 | 480,143 |
| Wyoming..... | | | 70,623 | 70,623 |
| Total..... | 3,780,487 | 8,580,866 | 827,585 | 13,188,938 |

GRANITE.

The stone classed as granite in this report includes gneiss, mica-schist, lava, andesite, syenite quartz porphyry, trap rock, basalt, and allied igneous rocks. Too small quantities of these allied stones are quarried to make it practicable to tabulate them separately. Trap rock, however, as quarried in California, Connecticut, New York, New Jersey, and Pennsylvania represents a sufficient industry by itself to make it advisable to show the value of this stone separately from the granite. The California trap rock includes considerable basalt, quarried and manufactured mostly into paving blocks.

In 1903 the value of the granite produced in the United States was \$18,436,087; in 1902 it was practically the same, \$18,257,944, the increase for 1903 being only \$178,143. In 1902 the increase in value over 1901 was \$2,280,983; in 1901 the increase over 1900 was \$3,301,344, and in 1900 the increase over 1899 was \$1,057,278. The falling off in 1903 was principally in the Eastern States—Massachusetts, New Hampshire, Maine, and Rhode Island being most noticeably affected. These States find a market for their stone chiefly in the large cities, and the labor troubles, builders' strikes, increased price of materials, and the generally unsettled condition of the trade in 1903 had their effect upon the quarry industry. Vermont and Connecticut, however, showed a decided increase in value of production.

Massachusetts still holds first place in value of production, being closely followed by Maine, then by Vermont, California, Connecticut, and New Hampshire.

The decrease in value of the stone used for building purposes was from \$7,034,832 in 1902 to \$6,192,145 in 1903, or \$842,687. In 1902 the increase over 1901 was \$1,374,703. Rough building stone decreased in value from \$2,175,082 in 1902 to \$1,671,929 in 1903, a loss of \$503,153. The stone quarried and dressed by the producer for building purposes decreased from \$4,859,750 in 1902 to \$4,520,216 in 1903, a loss of \$339,534.

The stone sold for monumental work in 1903, including the rough stock sold by the quarrymen for this purpose, and the stone quarried and dressed for this purpose by the quarrymen, was worth \$3,808,417; in 1902 this value was \$3,998,911, a loss of \$190,494 in 1903. The rough monumental stock was valued at \$1,692,880 in 1903, and at \$1,714,156 in 1902, a loss for 1903 of \$21,276. The dressed stone was valued at \$2,115,537 in 1903, and at \$2,284,755 in 1902, a decrease for 1903 of \$169,218.

The value of the paving blocks increased from \$1,523,776 in 1902 to \$1,954,266 in 1903, an increase of \$430,490.

The crushed stone increased in value from \$3,211,780 in 1902 to \$3,780,487 in 1903, an increase of \$568,707.

The following table shows the production of granite in the United States in 1902 and 1903, by States and uses:

Value of granite produced in the United States in 1902 and 1903, by States and uses.

1902.

| State. | Sold in the rough. | | | Dressed for building. | Dressed for monumental work. | Made into paving blocks. | Curbing. | Flagging. |
|------------------------|--------------------|-------------|---------|-----------------------|------------------------------|--------------------------|----------|-----------|
| | Building. | Monumental. | Other. | | | | | |
| Arkansas | \$50 | \$215 | ..... | \$600 | ..... | ..... | \$75 | ..... |
| Arizona ..... | ..... | ..... | ..... | ..... | \$3,000 | ..... | ..... | ..... |
| California | 230,988 | 34,992 | \$8,455 | 133,574 | 43,855 | \$144,160 | 28,205 | \$495 |
| Colorado | 47,752 | 8,770 | ..... | 1,800 | 1,513 | ..... | ..... | ..... |
| Connecticut | 117,802 | 28,862 | 3,929 | 200,262 | 66,899 | 34,579 | 28,080 | 371 |
| Delaware | 20,640 | ..... | 4,593 | 2,407 | ..... | 9,675 | 4,701 | ..... |
| Georgia | 30,159 | 45,814 | 12,330 | 99,213 | 18,565 | 151,779 | 317,164 | 12,533 |
| Idaho ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Indian Territory | 840 | ..... | ..... | 7,700 | 1,800 | ..... | 850 | ..... |
| Maine | 485,217 | 52,836 | 12,720 | 1,435,803 | 155,305 | 354,530 | 112,290 | 10,238 |
| Maryland | 139,856 | 15,825 | 4,150 | 323,239 | 17,500 | 30,521 | 35,955 | 7,301 |
| Massachusetts | 400,842 | 412,172 | 123,399 | 965,342 | 381,872 | 358,398 | 111,184 | 15,614 |
| Minnesota | 17,154 | 80,656 | 2,700 | 181,089 | 154,825 | 3,280 | 15,340 | 480 |
| Missouri | 3,000 | 27,051 | ..... | 29,283 | 2,185 | 42,359 | 6,900 | ..... |
| Montana | 16,600 | 100 | ..... | 16,000 | 250 | ..... | 300 | ..... |
| Nevada ..... | ..... | ..... | ..... | 150 | 1,800 | ..... | 140 | ..... |
| New Hampshire | 148,579 | 57,335 | 8,564 | 471,337 | 289,400 | 101,548 | 22,328 | 340 |
| New Jersey | 70,884 | 2,940 | 450 | 43,761 | ..... | 72,404 | ..... | ..... |
| New York | 131,549 | 1,500 | 975 | 175,904 | 7,180 | 6,562 | 827 | 640 |
| North Carolina | 26,490 | 820 | 1,250 | 131,525 | 8,804 | 6,986 | 79,332 | 3,283 |
| Oregon | 3,931 | 2,750 | 1,000 | 5,460 | 2,000 | 6,400 | ..... | 375 |
| Pennsylvania | 121,198 | 1,650 | 525 | 78,678 | 450 | 44,411 | 6,799 | ..... |
| Rhode Island | 18,798 | 111,732 | 750 | 120,767 | 438,967 | 14,657 | 5,478 | 160 |
| South Carolina | 70,580 | 20,986 | 333,728 | 71,000 | 24,290 | 4,547 | 7,059 | 500 |
| Texas | 10,345 | 17,135 | ..... | 3,439 | 29,084 | ..... | ..... | ..... |
| Utah | 495 | 534 | ..... | ..... | 450 | ..... | ..... | ..... |
| Vermont | 28,845 | 756,007 | 23,896 | 289,567 | 453,187 | 2,855 | 5,770 | ..... |
| Virginia | 21,158 | 12,500 | ..... | 28,840 | 51,612 | 14,845 | 29,796 | 550 |
| Washington | 9,870 | 4,304 | ..... | 12,057 | 11,953 | 5,000 | 10,273 | ..... |
| Wisconsin | 1,460 | 16,650 | 500 | 30,953 | 118,009 | 114,280 | ..... | ..... |
| Total | 2,175,082 | 1,714,156 | 543,914 | 4,859,750 | 2,284,755 | 1,523,776 | 823,846 | 52,880 |

Value of granite produced in the United States in 1902 and 1903, by States and uses—Continued.

1902.

| State. | Crushed stone. | | | Rubble. | Riprap. | Other. | Total. |
|-----------------------|-------------------|----------------------|-----------|---------|----------|-----------|------------|
| | Road mak- ing. | Railroad ballast. | Concrete. | | | | |
| Arkansas | \$9,000 | \$2,000 | ..... | \$175 | ..... | ..... | \$12,115 |
| Arizona ..... | ..... | ..... | ..... | ..... | ..... | ..... | 3,000 |
| California | 135,842 | 13,861 | \$116,400 | 24,635 | \$48,099 | \$174,118 | 1,137,679 |
| Colorado | 3,750 | ..... | ..... | 2,438 | ..... | ..... | 66,023 |
| Connecticut | 238,261 | 2,250 | 54,552 | 8,468 | 32,426 | 400 | \$12,141 |
| Delaware | 41,237 | 57,291 | 10,934 | 61,066 | 63,300 | 909 | 276,753 |
| Georgia | 26,741 | 10,122 | 7,047 | 50,870 | ..... | 21,441 | 803,778 |
| Idaho ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Indian Territory..... | ..... | ..... | 320 | 1,400 | ..... | ..... | 12,910 |
| Maine | 8,070 | 90 | 1,784 | 6,318 | 13,077 | 11,172 | 2,659,450 |
| Maryland | 74,522 | 26,535 | 54,704 | 9,055 | 2,250 | 16,790 | 758,203 |
| Massachusetts | 278,656 | 50,795 | 97,584 | 224,187 | 26,460 | 4,892 | 3,451,397 |
| Minnesota | 12,635 | 1,525 | 1,500 | 6,605 | 1,200 | ..... | 478,989 |
| Missouri | 18,803 | ..... | 19,241 | ..... | 3,451 | 5,435 | 157,708 |
| Montana ..... | ..... | ..... | ..... | ..... | 43,800 | ..... | 77,050 |
| Nevada ..... | ..... | ..... | ..... | ..... | ..... | ..... | 2,090 |
| New Hampshire... | 16,788 | 1,750 | 8,012 | 810 | 17,056 | 3,250 | 1,147,097 |
| New Jersey | 578,424 | 59,546 | 115,035 | 700 | 4,330 | ..... | 948,474 |
| New York | 193,435 | 30,126 | 94,442 | 6,874 | 1,000 | ..... | 651,014 |
| North Carolina | 4,910 | 54,080 | 8,206 | 6,888 | 3,676 | 2,500 | 338,750 |
| Oregon | 11,500 | 1,550 | 1,100 | 1,550 | 813 | ..... | 38,429 |
| Pennsylvania | 140,166 | 188,129 | 58,479 | 16,769 | 3,488 | 320 | 661,062 |
| Rhode Island | 12,808 | 42 | 2,560 | 2,974 | 621 | 4,289 | 734,623 |
| South Carolina | 650 | 23,510 | 36,073 | 5,585 | ..... | 340 | 598,848 |
| Texas ..... | ..... | ..... | ..... | ..... | ..... | ..... | 60,003 |
| Utah ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1,479 |
| Vermont | 3,348 | 3,025 | ..... | 2,000 | 108 | 1,815 | 1,570,423 |
| Virginia | 6,133 | 25,554 | 46,588 | 26,255 | 17,215 | 1,000 | 282,046 |
| Washington ..... | ..... | 22,974 | ..... | 34,054 | 36,788 | ..... | 147,273 |
| Wisconsin | 86,760 | 25 | ..... | 500 | ..... | ..... | 369,137 |
| Total | 1,902,439 | 574,780 | 734,561 | 500,176 | 319,158 | 248,671 | 18,257,944 |

Value of granite produced in the United States in 1902 and 1903, by States and uses—Continued.

1903.

| State. | Sold in the rough. | | | Dressed for building. | Dressed for monumental work. | Made into paving blocks. | Curbing. | Flagging. |
|------------------------|--------------------|-------------|-----------|-----------------------|------------------------------|--------------------------|----------|-----------|
| | Building. | Monumental. | Other. | | | | | |
| Arizona | | | | | \$3,000 | | | |
| California | \$34,064 | \$48,351 | \$284,509 | \$479,979 | 81,869 | \$92,082 | \$46,290 | \$470 |
| Colorado | 12,855 | 8,122 | | 77,188 | 526 | | 1,500 | |
| Connecticut | 71,041 | 26,164 | 93,699 | 408,875 | 58,811 | 85,686 | 24,398 | 805 |
| Delaware | 63,462 | | 185,680 | 8,034 | 214 | 11,812 | 4,654 | 89 |
| Georgia | 39,585 | 34,374 | 1,000 | 29,421 | 18,345 | 189,571 | 249,948 | 7,585 |
| Idaho | 1,500 | | | | | | 1,250 | |
| Indian Territory | 840 | 90 | | 2,350 | 400 | | | |
| Maine | 267,778 | 43,961 | 10,016 | 1,300,608 | 159,478 | 639,607 | 96,367 | 12,475 |
| Maryland | 228,896 | 29,996 | 1,400 | 271,929 | 10,634 | 38,104 | 21,174 | 3,992 |
| Massachusetts | 324,683 | 374,544 | 44,875 | 648,471 | 211,175 | 349,066 | 65,148 | 18,049 |
| Minnesota | 21,992 | 14,161 | 682 | 53,474 | 172,927 | 73,950 | 34,351 | 2,678 |
| Missouri | 2,680 | 28,593 | 413 | 11,732 | 100 | 20,178 | 11,125 | 31,159 |
| Montana | 3,430 | 2,000 | | 11,863 | 2,100 | | 600 | |
| Nevada | 950 | 2,500 | | | | | 4,000 | |
| New Hampshire | 115,524 | 57,775 | 6,964 | 282,014 | 252,044 | 58,708 | 35,603 | 1,040 |
| New Jersey | 50,824 | 6,800 | 360 | 20,672 | 12 | 41,605 | | |
| New York | 86,406 | | 42 | 51,172 | 2,400 | 3,500 | 801 | |
| North Carolina | 8,259 | 510 | 3,888 | 44,628 | 6,760 | 7,215 | 36,915 | 1,375 |
| Oklahoma | | 1,000 | | | 4,000 | | | |
| Oregon | 1,533 | 2,325 | 230 | 1,691 | 16,390 | 80 | 200 | 150 |
| Pennsylvania | 167,442 | | 426 | 91,594 | 1,300 | 28,706 | 10,220 | 343 |
| Rhode Island | 9,890 | 111,458 | 2,040 | 149,114 | 360,043 | 37,984 | 11,570 | 705 |
| South Carolina | 13,300 | 29,000 | 192,500 | 157,100 | 1,900 | 5,600 | 4,150 | 196 |
| Texas | 3,839 | 19,475 | 22,611 | 2,600 | 5,675 | | 1,275 | |
| Utah | 661 | 2,490 | 560 | | | | | |
| Vermont | 103,353 | 828,508 | 579 | 346,293 | 481,346 | 28,839 | 10,647 | |
| Virginia | 26,345 | 13,440 | | 14,740 | 43,845 | 28,034 | 4,582 | 5,485 |
| Washington | 6,612 | 2,775 | | 50,792 | 17,604 | 12,000 | 23,381 | |
| Wisconsin | 4,185 | 4,468 | 750 | 3,882 | 202,639 | 201,939 | 869 | 4,546 |
| Total | 1,671,929 | 1,692,880 | 853,224 | 4,520,216 | 2,115,537 | 1,954,266 | 701,018 | 91,142 |

Value of granite produced in the United States in 1902 and 1903, by States and uses—Continued.

1903.

| State. | Crushed stone. | | | Rubble. | Riprap. | Other. | Total. |
|------------------------|----------------|-------------------|-----------|---------|---------|---------|------------|
| | Road making. | Railroad ballast. | Concrete. | | | | |
| Arizona | | | | | | | \$3,000 |
| Arkansas | \$4,813 | \$23,500 | \$15,823 | \$3,000 | | | 47,136 |
| California | 112,298 | 74,039 | 200,891 | 162,089 | \$9,161 | \$1,500 | 1,627,592 |
| Colorado | 150 | | 450 | | | | 100,791 |
| Connecticut | 116,236 | 34,164 | 57,207 | 32,752 | 91,587 | | 1,101,425 |
| Delaware | 14,245 | 47,976 | 21,000 | 6,000 | 6,000 | | 369,166 |
| Georgia | 1,800 | 30,350 | 27,612 | 26,792 | 5,770 | 10,794 | 672,947 |
| Idaho | | | | | | | 2,750 |
| Indian Territory | | | | 350 | | | 4,030 |
| Maine | 5,254 | 3,318 | 3,106 | 6,920 | 15,920 | 21,957 | 2,586,765 |
| Maryland | 60,664 | 37,771 | 122,120 | 8,278 | 1,029 | 1,800 | 837,787 |
| Massachusetts | 288,685 | 36,868 | 122,121 | 191,212 | 40,895 | 4,274 | 2,720,066 |
| Minnesota | 20,706 | 734 | 700 | 7,069 | 457 | 25 | 403,906 |
| Missouri | 38,384 | | 4,443 | | 1,252 | 350 | 150,409 |
| Montana | | | | 5,000 | 1,000 | | 25,993 |
| Nevada | | | | | | | 7,450 |
| New Hampshire | 7,850 | 2,470 | 6,087 | 9,275 | 18,684 | 475 | 854,513 |
| New Jersey | 575,338 | 86,109 | 150,224 | | 5,733 | 3,390 | 943,171 |
| New York | 283,480 | 40,000 | 81,214 | | | | 549,015 |
| North Carolina | 3,447 | 91,001 | 5,984 | 630 | 3,255 | 5,080 | 218,947 |
| Oklahoma | | | | | | | 5,000 |
| Oregon | 12,000 | 1,500 | 3,000 | 73,587 | 5,725 | | 118,411 |
| Pennsylvania | 145,923 | 182,425 | 149,852 | 12,893 | 34,331 | 4,080 | 829,535 |
| Rhode Island | 18,031 | | 2,597 | 3,650 | 619 | 2,590 | 710,291 |
| South Carolina | 13,000 | 36,797 | 7,780 | 15,450 | 90 | | 476,863 |
| Texas | 25 | | 64,725 | | 53,100 | | 173,325 |
| Utah | | | | | 92 | | 3,803 |
| Vermont | 3,321 | 3,720 | 2,500 | | 356 | 717 | 1,810,179 |
| Virginia | 31,785 | 17,400 | 60,820 | 28,449 | 22,410 | 2,000 | 299,335 |
| Washington | 3,608 | | 9,631 | 9,048 | 73,644 | | 209,095 |
| Wisconsin | 135,148 | | 14,267 | 591 | | 107 | 573,391 |
| Total | 1,896,191 | 750,142 | 1,134,154 | 605,139 | 391,110 | 59,139 | 18,436,087 |

The following table shows the value of the production of granite in the United States from 1899 to 1903, inclusive:

Value of granite produced in the United States, 1899-1903.

| State. | 1899. | 1900. | 1901. | 1902. | 1903. |
|-----------------------|------------|------------|------------|------------|------------|
| Arizona..... | | | | \$3,000 | \$3,000 |
| Arkansas..... | \$39,470 | \$62,500 | \$23,554 | 12,115 | 47,136 |
| California..... | 471,665 | 738,993 | 1,134,675 | 1,137,679 | 1,627,592 |
| Colorado..... | 78,261 | 143,054 | 138,996 | 66,023 | 100,791 |
| Connecticut..... | 516,886 | 507,754 | 616,654 | 812,141 | 1,101,425 |
| Delaware..... | 1,039,349 | 608,028 | 671,204 | 276,753 | 369,166 |
| Georgia..... | 411,344 | 380,434 | 761,646 | 803,778 | 672,947 |
| Idaho..... | | 2,450 | 5,100 | 12,910 | 2,750 |
| Indian Territory..... | | | | | 4,030 |
| Kansas..... | | 30,000 | 48,530 | | |
| Maine..... | 1,321,082 | 1,568,573 | 2,703,116 | 2,659,450 | 2,586,765 |
| Maryland..... | 423,823 | 486,822 | 613,356 | 758,203 | 837,787 |
| Massachusetts..... | 1,798,294 | 1,698,605 | 2,216,258 | 3,451,397 | 2,720,066 |
| Michigan..... | | 3,957 | 2,706 | | |
| Minnesota..... | 159,459 | 221,684 | 260,105 | 478,989 | 403,906 |
| Missouri..... | 151,688 | 139,103 | 95,806 | 157,708 | 150,409 |
| Montana..... | | | | 77,050 | 25,993 |
| Nevada..... | 9,950 | 9,091 | 19,300 | 2,090 | 7,450 |
| New Hampshire..... | 802,636 | 870,646 | 935,494 | 1,147,097 | 854,513 |
| New Jersey..... | 779,822 | 1,170,555 | 894,167 | 948,474 | 943,171 |
| New York..... | 306,711 | 446,171 | 489,828 | 651,014 | 549,015 |
| North Carolina..... | 225,544 | 257,962 | 261,288 | 338,750 | 218,947 |
| Oklahoma..... | | | | | 5,000 |
| Oregon..... | 3,012 | 5,313 | 10,754 | 38,429 | 118,411 |
| Pennsylvania..... | 385,101 | 396,271 | 486,008 | 661,062 | 829,535 |
| Rhode Island..... | 400,128 | 444,316 | 501,638 | 734,623 | 710,291 |
| South Carolina..... | 361,034 | 500,802 | 996,084 | 598,848 | 476,863 |
| South Dakota..... | 91,049 | 114,115 | 99,941 | (a) | (a) |
| Texas..... | 84,945 | 76,069 | 27,005 | 60,003 | 173,325 |
| Utah..... | 4,735 | 2,170 | 5,588 | 1,479 | 3,803 |
| Vermont..... | 1,212,967 | 1,113,788 | 1,245,828 | 1,570,423 | 1,810,179 |
| Virginia..... | 223,380 | 211,080 | 275,701 | 282,046 | 299,835 |
| Washington..... | 42,766 | 48,900 | 43,808 | 147,273 | 209,095 |
| Wisconsin..... | 270,538 | 407,711 | 389,953 | 369,137 | 573,391 |
| Wyoming..... | 2,700 | 8,700 | 2,810 | | |
| Total..... | 11,618,339 | 12,675,617 | 15,976,961 | 18,257,944 | 18,436,087 |

^a Value of quartzite included in sandstone.

The following tables show the value of the trap rock produced in the United States in 1902 and 1903, by States and uses:

Value of trap rock produced in the United States in 1902 and 1903, by States and uses.

1902.

| State. | Build- ing. | Paving. | Crushed stone. | | | Other. | Total. |
|---------------------|----------------|---------|-------------------|----------------------|-----------|--------|-----------|
| | | | Road mak- ing. | Railroad ballast. | Concrete. | | |
| California | | | \$95,409 | \$1,065 | \$115,000 | \$316 | \$211,790 |
| Connecticut | \$1,057 | \$274 | 235,743 | 2,250 | 48,188 | ..... | 287,512 |
| Massachusetts | 13,675 | ..... | 239,552 | 47,131 | 70,182 | ..... | 370,540 |
| New Jersey | 34,640 | 66,727 | 532,128 | 59,546 | 80,835 | 3,496 | 777,372 |
| New York ..... |  | ..... | 164,723 | 26,126 | 19,151 | ..... | 210,000 |
| Pennsylvania | 4,080 | 13,244 | 121,194 | 152,649 | 32,456 | 320 | 323,943 |
| Total | 53,452 | 80,245 | 1,388,749 | 288,767 | 365,812 | 4,132 | 2,181,157 |

1903.

| | | | | | | | |
|---------------------|-----------|----------|-----------|----------|-----------|-------|-----------|
| California | \$152,383 | \$25,120 | \$71,538 | \$22,977 | \$193,731 | \$577 | \$466,326 |
| Connecticut | 11,620 | 22,426 | 114,986 | 34,164 | 46,288 | ..... | 229,484 |
| Massachusetts | 51,392 | ..... | 212,127 | 23,322 | 82,168 | 30 | 369,039 |
| New Jersey | 14,611 | 39,704 | 575,338 | 86,109 | 100,224 | 3,050 | 819,036 |
| New York ..... | ..... | ..... | 283,480 | 40,000 | 65,945 | ..... | 389,425 |
| Pennsylvania | 9,336 | 5,476 | 129,324 | 180,225 | 129,991 | 4,632 | 458,984 |
| Total | 239,342 | 92,726 | 1,386,793 | 386,797 | 618,347 | 8,289 | 2,732,294 |

SANDSTONE.

The value of the sandstone, including the bluestone from New York and Pennsylvania, quarried in the United States in 1903, was \$11,262,259. This is an increase of \$661,088 over the value for 1902, which was \$10,601,171. The increase in value in 1902 over 1901 was \$2,462,491—from \$8,138,680 in 1901 to \$10,601,171 in 1902. The increase in the sandstone production, not including bluestone, was comparatively small, being \$45,156—from \$9,437,646 in 1902 to \$9,482,802 in 1903. The bluestone output increased in value \$615,932, from \$1,163,525 in 1902 to \$1,779,457 in 1903.

No sandstone used for the manufacture of grindstones, whetstones, etc., or for grinding into sand, is included in these figures.

Most of the States showed a decreased production. Alabama, Arizona, California, Colorado, Iowa, Minnesota, Nebraska, New York, Pennsylvania, South Dakota, Tennessee, Virginia, Washington, and Wyoming were the only States showing an increase, and of these Arizona, California, New York, and Pennsylvania were the only ones at all remarkable.

Pennsylvania, Ohio, and New York were the largest producers, and in 1903 their production was valued, respectively, at \$3,255,073, \$1,793,379, and \$1,756,501. The next State approaching these States in production was California, with a value of \$762,327. The production of the three principal States in 1902 was: Pennsylvania, \$2,800,108; Ohio, \$2,078,754; and New York, \$1,408,699.

In 1901 the total value of the sandstone sold by the quarrymen for building purposes was \$4,875,973; in 1902 it was \$6,007,484, an increase of \$1,131,511 over 1901; in 1903 it was \$6,403,969, an increase of only \$396,485 over 1902. The value of the crushed stone decreased from \$1,116,449 in 1902 to \$827,585 in 1903, or \$288,864; ganister increased from \$112,600 to \$187,689, or \$75,089; riprap decreased from \$269,269 to \$260,147, or \$9,122; rubble increased from \$645,619 to \$656,933, or \$11,314; paving increased from \$527,617 to \$696,053, or \$168,436; flagstones increased from \$1,142,699 to \$1,164,156, or \$21,457; and curbstones increased from \$672,654 to \$1,003,528, or \$330,874.

From these figures it will be seen that the building stone output varied more than any other product, which is accounted for by the general depression in the building market due to labor troubles.

The following tables show the values of the sandstone production of the United States in 1902 and 1903, by States and uses:

Value of sandstone produced in the United States in 1902 and 1903, by States and uses.

1902.

| State. | Rough building. | Dressed building. | Crushed stone. | | | Ganister. | Riprap. |
|----------------------|-----------------|-------------------|----------------|-------------------|-----------|-----------|---------|
| | | | Road-making. | Railroad ballast. | Concrete. | | |
| Alabama | | \$14,252 | | | \$200 | | \$8,727 |
| Arizona | \$9,570 | 75,000 | | | | | 4,800 |
| Arkansas | 8,374 | 1,420 | | \$38,475 | 6,271 | | 415 |
| California | 80,038 | 123,240 | \$37,750 | 4,000 | 146,000 | | 71,090 |
| Colorado | 93,116 | 15,267 | | 65,000 | 6,008 | | 2,347 |
| Connecticut | 123,634 | 4,945 | | | | | |
| Georgia | 1,250 | | | | | | |
| Hawaii | | | 6,688 | | | | |
| Idaho | 7,823 | 434 | | | | | |
| Illinois | 21,185 | 4,100 | 25 | | | | 1,000 |
| Indiana | 24,565 | 5,564 | 1,000 | | | | 450 |
| Iowa | 9,044 | 775 | 750 | | 35 | | |
| Kansas | 10,157 | 2,080 | | 42,050 | | | |
| Kentucky | 47,775 | 5,600 | 5,000 | 50,000 | | | |
| Maryland | 7,210 | | 10 | 4,500 | 1,455 | | 545 |
| Massachusetts | 93,197 | 96,595 | 256,273 | | 40,256 | | |
| Michigan | 136,280 | 23,600 | | | | | 800 |
| Minnesota | 30,796 | 70,935 | 5,400 | | 15,699 | | 4,061 |
| Missouri | 32,880 | 15,323 | | 900 | 450 | | 845 |
| Montana | 4,822 | 61,158 | | | 750 | | 3,795 |
| Nebraska | 96 | 24 | 18 | | 25 | | |
| Nevada | 2,383 | | | | | | |
| New Jersey | 232,051 | 81,145 | 50 | | 30,880 | | |
| New Mexico | 6,800 | 2,125 | | | | | |
| New York | 279,009 | 271,430 | 50,447 | 3,795 | 5,310 | | 5,452 |
| North Carolina | 750 | 4,000 | | | | | |
| Ohio | 1,067,938 | 211,972 | 1,554 | 75 | 6,675 | \$1,595 | 21,853 |
| Oklahoma | | | | | | | |
| Oregon | 24,281 | | 1,028 | | | | |
| Pennsylvania | 491,235 | 1,425,724 | 30,742 | 129,591 | 18,972 | 92,471 | 62,927 |
| South Dakota | 19,970 | 22,192 | | 168 | | | 3,652 |
| Tennessee | 6,950 | 600 | | | | | |
| Texas | 4,832 | 28,000 | 16,300 | | 25,907 | | 59,919 |
| Utah | 63,529 | 265 | | | | | |
| Virginia | 2,200 | 300 | | | | | |
| Washington | 2,500 | 15,225 | | | | | 8,000 |
| West Virginia | 104,601 | 193,157 | 3,995 | 8,685 | 12,361 | | 3,323 |
| Wisconsin | 54,392 | 85,353 | 83 | 630 | 51 | 18,534 | 5,436 |
| Wyoming | 14,003 | 26,448 | 25,000 | | 9,162 | | 332 |
| Total | 3,119,236 | 2,888,248 | 442,113 | 347,869 | 326,467 | 112,600 | 269,269 |

Value of sandstone produced in the United States in 1902 and 1903, by States and uses—Continued.

1902.

| State. | Rubble. | Paving. | Flagstone. | Curbing. | Other. | Total value. |
|----------------------|----------|---------|------------|----------|---------|--------------|
| Alabama | \$16,675 | | | | \$2,852 | \$42,706 |
| Arizona | 18,300 | | | | 240 | 107,910 |
| Arkansas | 3,115 | \$9,810 | \$2,979 | \$14,878 | 180 | 85,917 |
| California | 210 | | | | | 462,328 |
| Colorado | 37,998 | 718 | 101,486 | 42,607 | 1,614 | 366,161 |
| Connecticut | | | | | | 128,579 |
| Georgia | | | | | | 1,250 |
| Hawaii | | | | | | 6,688 |
| Idaho | 5,520 | | | | | 13,777 |
| Illinois | 2,925 | 2,400 | 160 | | 405 | 32,200 |
| Indiana | 1,069 | 240 | 120 | 4,585 | | 37,593 |
| Iowa | 3,157 | | 75 | | 1,225 | 15,061 |
| Kansas | 6,162 | 275 | 21,124 | 23,561 | 100 | 105,509 |
| Kentucky | | 1,075 | 7,420 | 4,900 | 6,700 | 128,470 |
| Maryland | 1,035 | | | | 650 | 15,405 |
| Massachusetts | 1,000 | | | 45 | | 487,366 |
| Michigan | 27,393 | | | | | 188,073 |
| Minnesota | 29,351 | 140,726 | 225 | 43,659 | 6,620 | 347,472 |
| Missouri | 3,001 | | 881 | 1,710 | 1,500 | 56,990 |
| Montana | 4,462 | | 390 | 2,435 | 7,340 | 85,152 |
| Nebraska | 5 | | | | | 168 |
| Nevada | 3,657 | | | 75 | | 6,115 |
| New Jersey | 59,777 | | 2,200 | | 623 | 406,726 |
| New Mexico | 50 | 360 | 756 | 950 | 1,250 | 12,291 |
| New York | 18,583 | 264,858 | 230,158 | 272,831 | 6,826 | 1,408,699 |
| North Carolina | 75 | | | | | 4,825 |
| Ohio | 44,471 | 750 | 664,659 | 43,077 | 14,135 | 2,078,754 |
| Oklahoma | | | | | | 25,309 |
| Oregon | | | | | | |
| Pennsylvania | 202,295 | 26,985 | 104,521 | 174,184 | 40,461 | 2,800,108 |
| South Dakota | 24,447 | 39,260 | | 500 | 600 | 110,789 |
| Tennessee | | | | | 120 | 7,670 |
| Texas | 7,000 | | | 22,850 | 757 | 165,565 |
| Utah | | 35,000 | 2,200 | 4,010 | 7 | 105,011 |
| Virginia | | | | | | 2,500 |
| Washington | 5,000 | | | | | 39,725 |
| West Virginia | 79,030 | | 2,745 | 15,635 | | 423,532 |
| Wisconsin | 29,760 | 160 | | 112 | 12,575 | 207,086 |
| Wyoming | 10,096 | 5,000 | 600 | 50 | | 90,691 |
| Total | 645,619 | 527,617 | 1,142,699 | 672,654 | 106,780 | 10,601,171 |

Value of sandstone produced in the United States in 1902 and 1903, by States and uses—Continued.

1903.

| State. | Rough building. | Dressed building. | Crushed stone. | | | Ganister. | Riprap. |
|----------------------|-----------------|-------------------|----------------|-------------------|-----------|-----------|----------|
| | | | Road-making. | Railroad ballast. | Concrete. | | |
| Alabama | \$2,800 | \$6,000 | | | | | \$13,995 |
| Arizona | 7,000 | 425,000 | | \$625 | \$12,500 | | 50,000 |
| Arkansas | 4,415 | 3,555 | \$960 | 960 | 11,156 | | 1,881 |
| California | 20,450 | 547,000 | 49,750 | 15,000 | 16,170 | | 10,100 |
| Colorado | 56,192 | 13,075 | | 30,000 | 7,635 | \$18,975 | 2,000 |
| Connecticut | 115,765 | 3,652 | | | | | |
| Idaho | 10,787 | 1,069 | | | | | |
| Illinois | 16,319 | 4,269 | | | | 600 | 100 |
| Indiana | 19,062 | 4,910 | 5,000 | | | | 1,280 |
| Iowa | 8,072 | 49 | 366 | 16 | | | 7,525 |
| Kansas | 15,431 | 7,650 | 600 | 31,250 | | | 500 |
| Kentucky | 51,997 | 23,200 | 1,100 | | | | 1,085 |
| Maryland | 795 | | 1,375 | | | | |
| Massachusetts | 72,328 | 93,360 | 157,039 | 14,000 | 33,680 | | |
| Michigan | 89,931 | 10,365 | 2,050 | | 3,450 | | |
| Minnesota | 41,359 | 39,424 | 4,500 | | 16,221 | | 7,508 |
| Missouri | 23,511 | 14,931 | 24 | | | | 2,500 |
| Montana | 11,087 | 46,175 | | | 165 | | 2,450 |
| Nebraska | 1,000 | | 30 | | | | |
| Nevada | 100 | 2,000 | | | | | |
| New Jersey | 270,253 | 91,721 | 1,750 | | 200 | | |
| New Mexico | 1,955 | 1,758 | | | 250 | | |
| New York | 131,268 | 555,379 | 5,000 | 1,500 | 22,894 | | 25,582 |
| North Carolina | 600 | | | | | | |
| Ohio | 471,106 | 407,170 | 32,080 | 300 | 5,908 | 5,897 | 34,428 |
| Oklahoma | 2,900 | 3,000 | 600 | | | | |
| Oregon | 1,654 | 793 | 97 | | | | 300 |
| Pennsylvania | 550,991 | 1,602,152 | 12,919 | 185,452 | 26,442 | 143,639 | 46,797 |
| South Dakota | 50,868 | 40,895 | 500 | 500 | 5,000 | | 7,119 |
| Tennessee | 600 | 19,536 | | | 93 | | |
| Texas | 18,795 | 19,455 | 7,000 | | 15,300 | | 41,506 |
| Utah | 39,958 | 12,031 | | | | | |
| Virginia | 2,682 | 986 | | | 803 | | |
| Washington | 1,100 | 32,450 | | | | | |
| West Virginia | 57,978 | 109,469 | 5,460 | 8,125 | 1,617 | | 2,285 |
| Wisconsin | 56,699 | 18,870 | 1,125 | 260 | 165 | 18,578 | 1,256 |
| Wyoming | 11,240 | 3,572 | | | 70,623 | | |
| Total | 2,239,048 | 4,164,921 | 289,325 | 287,988 | 250,272 | 187,689 | 260,147 |

Value of sandstone produced in the United States in 1902 and 1903, by States and uses—Continued.

1903.

| State. | Rubble. | Paving. | Flagstone. | Curbstone. | Other. | Total. |
|---------------------|----------|---------|------------|------------|---------|------------|
| Alabama..... | \$15,021 | | | | \$5,117 | \$42,933 |
| Arizona..... | 31,750 | | | | | 526,875 |
| Arkansas..... | 10,286 | \$3,993 | \$3,776 | \$19,684 | 506 | 61,172 |
| California..... | 98,852 | 375 | | 1,100 | 3,530 | 762,327 |
| Colorado..... | 61,288 | 2,962 | 168,509 | 25,689 | 2,807 | 389,132 |
| Connecticut..... | | | | | | 119,417 |
| Idaho..... | | | | | | 11,856 |
| Illinois..... | 4,400 | | 374 | 50 | 181 | 26,293 |
| Indiana..... | 2,010 | 93 | 78 | 168 | 50 | 32,651 |
| Iowa..... | 2,502 | 170 | 190 | 121 | | 19,011 |
| Kansas..... | 4,754 | 5,100 | 21,141 | 15,502 | 200 | 102,128 |
| Kentucky..... | 10,000 | | 5,560 | 800 | | 93,742 |
| Maryland..... | | | | | | 2,170 |
| Massachusetts..... | 2,071 | | | | | 372,478 |
| Michigan..... | 15,554 | | | | | 121,350 |
| Minnesota..... | 31,186 | 187,374 | 552 | 34,210 | 928 | 363,262 |
| Missouri..... | 5,060 | 15 | 1,482 | 1,639 | 240 | 49,402 |
| Montana..... | 1,759 | | 1,260 | 4,140 | 1,000 | 68,036 |
| Nebraska..... | 10 | | | | 27 | 1,067 |
| Nevada..... | 100 | 20 | | 150 | | 2,370 |
| New Jersey..... | | | 40 | 373 | | 364,337 |
| New Mexico..... | 2,032 | | 500 | 1,015 | | 7,510 |
| New York..... | 4,237 | 356,788 | 231,366 | 412,922 | 9,615 | 1,756,501 |
| North Carolina..... | | | | | | 600 |
| Ohio..... | 65,043 | | 532,046 | 230,586 | 8,815 | 1,793,379 |
| Oklahoma..... | | | | | | 6,500 |
| Oregon..... | 68 | | | | | 2,912 |
| Pennsylvania..... | 156,818 | 83,243 | 192,225 | 228,204 | 26,191 | 3,255,073 |
| South Dakota..... | 23,277 | 34,553 | | 355 | | 163,067 |
| Tennessee..... | 420 | | | | | 20,649 |
| Texas..... | 4,425 | | 1,200 | 5,425 | 1,275 | 114,381 |
| Utah..... | 766 | 15,000 | 1,500 | 2,024 | | 71,279 |
| Virginia..... | | | | | | 4,471 |
| Washington..... | 11,000 | 1,800 | | 1,080 | | 47,430 |
| West Virginia..... | 43,541 | 4,567 | 709 | 17,671 | 782 | 252,204 |
| Wisconsin..... | 43,909 | | 648 | | 935 | 142,445 |
| Wyoming..... | 4,794 | | 1,000 | 620 | | 91,849 |
| Total..... | 656,933 | 696,053 | 1,164,156 | 1,003,528 | 62,199 | 11,262,259 |

The following table shows the value of the sandstone production in the United States from 1899 to 1903, inclusive, by States:

Value of sandstone production in the United States, 1899-1903, by States.

| State. | 1899. | 1900. | 1901. | 1902. | 1903. |
|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Alabama | \$71,675 | \$7,132 | \$8,680 | \$42,706 | \$42,933 |
| Arizona | 4,168 | 64,000 | 202,500 | 107,910 | 526,875 |
| Arkansas | 73,616 | 104,923 | 62,825 | 85,917 | 61,172 |
| California | 261,193 | 200,090 | 301,028 | 462,328 | 762,327 |
| Colorado | 129,815 | 119,658 | 237,331 | 366,161 | 389,132 |
| Connecticut | 271,623 | 192,593 | 146,814 | 128,579 | 119,417 |
| Georgia | | 600 | | 1,250 | |
| Hawaii | | | | 6,688 | |
| Idaho | | 438 | 20,843 | 13,777 | 11,856 |
| Illinois | 16,133 | 19,141 | 12,884 | 32,200 | 26,293 |
| Indiana | 35,636 | 45,063 | 28,334 | 37,593 | 32,651 |
| Iowa | 24,348 | 19,063 | 14,341 | 15,061 | 19,011 |
| Kansas | 49,629 | 55,173 | 49,901 | 105,509 | 102,128 |
| Kentucky | 119,982 | 56,178 | 108,259 | 128,470 | 93,742 |
| Louisiana | ^a 226,503 | ^b 118,192 | | | |
| Maryland | 24,426 | 6,655 | 4,546 | 15,405 | 2,170 |
| Massachusetts | 131,877 | 153,427 | 247,310 | 487,366 | 372,478 |
| Michigan | 320,192 | 238,650 | 174,428 | 188,073 | 121,350 |
| Minnesota | 294,615 | 267,000 | 246,685 | 347,472 | 363,262 |
| Missouri | 57,662 | 53,401 | 42,170 | 56,990 | 49,402 |
| Montana | 26,160 | 59,630 | 58,439 | 85,152 | 68,036 |
| Nebraska | | | 515 | 168 | 1,067 |
| Nevada | | | | 6,115 | 2,370 |
| New Jersey | 147,768 | 198,234 | 244,512 | 406,726 | 364,337 |
| New Mexico | 1,829 | 2,500 | | 12,291 | 7,510 |
| New York | ^c 1,218,053 | ^c 1,467,496 | ^c 1,331,327 | ^c 1,408,699 | ^c 1,756,501 |
| North Carolina | 10,300 | 27,210 | 11,682 | 4,825 | 600 |
| Ohio | 1,775,642 | 2,233,596 | 1,999,180 | 2,078,754 | 1,793,379 |
| Oklahoma | | | | 25,309 | 6,500 |
| Oregon | 4,153 | 5,450 | 531 | | 2,912 |
| Pennsylvania | ^c 717,053 | ^c 1,050,248 | ^c 2,063,082 | ^c 2,800,168 | ^c 3,255,073 |
| South Dakota | 18,325 | 12,675 | 17,647 | 110,789 | 163,067 |
| Tennessee | | 11,300 | 10,342 | 7,670 | 20,649 |
| Texas | 35,738 | 37,038 | 111,568 | 165,565 | 114,381 |
| Utah | 29,091 | 66,733 | 38,919 | 105,011 | 71,279 |
| Virginia | 8,000 | 6,000 | 5,303 | 2,500 | 4,471 |
| Washington | 58,395 | 68,133 | 89,174 | 30,725 | 47,430 |
| West Virginia | 33,860 | 72,438 | 103,010 | 423,532 | 252,204 |
| Wisconsin | 132,901 | 81,571 | 90,425 | 207,086 | 142,445 |
| Wyoming | 32,583 | 27,671 | 54,145 | 90,691 | 91,849 |
| Total | 6,362,944 | 7,149,300 | 8,138,680 | 10,601,171 | 11,262,259 |

^a Includes small amounts for Idaho and Nevada.

^b Includes Mississippi.

^c Includes bluestone.

The following table shows the value and uses of the bluestone produced in New York and Pennsylvania in 1902 and 1903:

Value and uses of bluestone produced in New York and Pennsylvania in 1902 and 1903.

1902.

| State. | Building purposes. | Flagging. | Curbing. | Crushed Stone. | Other purposes. | Total value. |
|--------------------|--------------------|-----------|-----------|----------------|-----------------|--------------|
| New York | \$302,947 | \$203,743 | \$152,241 | \$28,847 | \$9,935 | \$697,713 |
| Pennsylvania | 177,296 | 92,469 | 69,556 | 90,209 | 36,282 | 465,812 |
| Total..... | 480,243 | 296,212 | 221,797 | 119,056 | 46,217 | 1,163,525 |

1903.

| | | | | | | |
|--------------------|-----------|-----------|-----------|----------|---------|-------------|
| New York | \$588,015 | \$205,558 | \$230,345 | ..... | \$3,050 | \$1,026,968 |
| Pennsylvania | 323,763 | 173,701 | 126,593 | \$45,971 | 82,462 | 752,489 |
| Total..... | 911,777 | 379,259 | 356,938 | 45,971 | 86,512 | 1,779,457 |

From these tables it appears that the value of the bluestone output increased from \$1,163,525 in 1902 to \$1,779,457 in 1903, or \$615,932. The production of both States increased in value, in New York, from \$697,713 in 1902 to \$1,026,968 in 1903, or \$329,255, and Pennsylvania, from \$465,812 in 1902 to \$752,489 in 1903, or \$286,677.

SLATE.

In 1903 the slate production of the United States increased in value \$560,834, from a total of \$5,696,051 in 1902 to \$6,256,885 in 1903. In 1902 the increase was \$908,526, from \$4,787,525 in 1901 to \$5,696,051 in 1902. In 1902 there were 1,435,168 squares of slate produced, valued at \$4,950,428; in 1903 there were 1,378,194 squares of slate produced, valued at \$5,400,078, a decrease of 56,974 squares and an increase of \$449,650 in value, as compared with the output of 1902, which showed an increase over 1901 of 130,789 squares and of \$836,018 in value. The milled slate increased in value from \$745,623 in 1902 to \$856,807, or \$111,184.

The slate trade in 1903 was reported in many cases as being very active during the first nine months of the year, but the remaining three months showed a much decreased demand. This was due to strikes in the building trade. Contractors did not give orders for slate which on account of stoppage of building work would be thrown on their hands for an indefinite period. This unsettled condition increased the price of slate and forced wages up. Pennsylvania and Vermont, the chief slate-producing States, showed a decrease in number of squares produced, with a considerable increase in the value. In the other

larger States both the number of squares and the value increased. In all cases the milled slate increased, and a steady demand was reported for this slate all through the year.

The development of the Arkansas and West Virginia slate continued, and slate properties without commercial production were also worked in Colorado, Georgia, North Carolina, Tennessee, and Utah.

The average price per square increased from \$3.45 in 1902 to \$3.91 in 1903.

The decreased export trade, due in part to the practically settled strike in the Welsh quarries and in part to the increased price of American slates and to the consequent importation into Great Britain of cheaper slates, was one factor in the small increase of the entire production. The increased cost of production of American slates due to labor troubles also affected the export trade.

The following tables show the value of roofing and milled slate produced in the United States in 1902 and 1903, by States:

Value of roofing and mill slate produced in the United States in 1902 and 1903, by States.

1902.

| State. | Roofing slate. | | Value of milled stock. | Total value. |
|-------------------|--------------------|-----------|------------------------|--------------|
| | Number of squares. | Value. | | |
| Arkansas..... | 500 | \$4,000 | ..... | \$4,000 |
| California..... | 4,500 | 31,500 | ..... | 31,500 |
| Georgia..... | 1,000 | 4,000 | ..... | 4,000 |
| Maine..... | 26,468 | 143,832 | \$62,726 | 206,558 |
| Maryland..... | 22,569 | 117,155 | 929 | 118,084 |
| New Jersey..... | 8,000 | 32,000 | ..... | 32,000 |
| New York..... | 21,165 | 116,628 | 10,090 | 126,718 |
| Pennsylvania..... | 908,206 | 3,001,545 | 545,777 | 3,547,322 |
| Vermont..... | 400,029 | 1,338,817 | 126,101 | 1,464,918 |
| Virginia..... | 42,731 | 160,951 | ..... | 160,951 |
| Total..... | 1,435,168 | 4,950,428 | 745,623 | 5,696,051 |

1903.

| | | | | |
|-------------------------|-----------|-----------|---------|-----------|
| Arkansas..... | 118 | \$709 | \$4,000 | \$4,709 |
| California..... | 10,000 | 70,000 | ..... | 70,000 |
| Maine..... | 27,377 | 157,911 | 73,319 | 231,230 |
| Maryland..... | 24,475 | 135,424 | 2,207 | 137,631 |
| New Jersey..... | (a) | (a) | ..... | (a) |
| New York <i>b</i> | 23,337 | 122,951 | 22,450 | 145,401 |
| Pennsylvania..... | 871,875 | 3,378,804 | 581,102 | 3,959,906 |
| Vermont..... | 391,366 | 1,418,923 | 173,729 | 1,592,652 |
| Virginia..... | 29,646 | 115,356 | ..... | 115,356 |
| Total..... | 1,378,194 | 5,400,078 | 856,807 | 6,256,885 |

a Included with New York.

b Includes New Jersey.

The following table shows the average value of roofing slate per square since 1890:

Average annual price per square of roofing slate for the entire country.

| | | | |
|-----------|--------|-----------|--------|
| 1890..... | \$3.34 | 1897..... | \$3.09 |
| 1891..... | 3.49 | 1898..... | 3.42 |
| 1892..... | 3.56 | 1899..... | 3.14 |
| 1893..... | 3.55 | 1900..... | 3.01 |
| 1894..... | 3.11 | 1901..... | 3.15 |
| 1895..... | 3.23 | 1902..... | 3.45 |
| 1896..... | 3.36 | 1903..... | 3.91 |

The following table shows the total value of the slate production of the United States from 1899 to 1903, inclusive:

Value of slate produced in the United States, 1899-1903.

| State. | 1899. | 1900. | 1901. | 1902. | 1903. |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| Arkansas..... | | | | \$4,000 | \$4,709 |
| California..... | \$6,642 | \$26,500 | \$18,608 | 31,500 | 70,000 |
| Georgia..... | | 9,375 | 3,000 | 4,000 | |
| Maine..... | 181,766 | 177,342 | 202,325 | 206,558 | 231,230 |
| Maryland..... | 93,595 | 128,673 | 105,798 | 118,084 | 137,631 |
| Minnesota..... | | 700 | 1,400 | | |
| New Jersey..... | (a) | 13,600 | 30,000 | 32,000 | (a) |
| New York..... | 76,675 | 62,755 | 100,960 | 126,718 | 145,401 |
| Pennsylvania..... | 2,537,022 | 2,713,598 | 2,984,264 | 3,547,322 | 3,959,906 |
| Tennessee..... | (a) | 250 | | | |
| Utah..... | (a) | | | | |
| Vermont..... | 872,673 | 917,462 | 1,162,191 | 1,464,918 | 1,592,652 |
| Virginia..... | 183,110 | 190,211 | 178,979 | 160,951 | 115,356 |
| Other States..... | 11,250 | | | | |
| Total..... | 3,962,733 | 4,240,466 | 4,787,525 | 5,696,051 | 6,256,885 |

^a Included in Other States.

EXPORTS.

The exports of roofing slate decreased, according to the figures of the Bureau of Statistics, Department of Commerce and Labor, from \$945,352 in the fiscal year ending June 30, 1902, to \$628,612 in 1903. There was a large decrease in the slate exported to the United Kingdom, which was valued at \$477,251 in 1903, as compared with \$731,556 in 1902.

The following table shows the ports and customs districts from which and to which slate has been exported since 1893:

Exports of slate from the United States, showing ports and customs districts from which and to which sent, in the fiscal years 1895-1903.

| Port and customs district. | 1895. | 1896. | 1897. | 1898. | 1899. | 1900. | 1901. | 1902. | 1903. |
|----------------------------------|--------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Baltimore, Md. | | \$9,860 | \$101,581 | \$170,916 | \$99,083 | \$110,049 | \$135,571 | \$240,734 | \$221,933 |
| Bangor, Me. | | 350 | | | | 577 | 1,144 | 449 | 1,170 |
| Belfast, Me. | | | | | | | | 375 | |
| Boston and Charlestown, Mass. | \$443 | 609 | 1,020 | 385 | 40,622 | 65,531 | 93,972 | 48,299 | 30,273 |
| Newport News, Va. | | | 18,170 | 65,290 | 42,220 | 19,950 | 12,910 | 6,650 | 350 |
| New York, N. Y. | 31,092 | 242,559 | 557,099 | 986,638 | 968,395 | 592,288 | 388,590 | 374,264 | 207,250 |
| Passamaquoddy, Me. | 192 | | 120 | | | | | | 164 |
| Philadelphia, Pa. | | 2,300 | 94,865 | 136,916 | 205,779 | 150,254 | 236,000 | 243,701 | 120,240 |
| Portland and Falmouth, Me. | | | 270 | | | | | | |
| Brazos de Santiago, Tex. | | | | | 14 | | | | |
| Corpus Christi, Tex. | 105 | 174 | | 1,761 | | | | 44 | |
| New Orleans, La. | | | | | | | | | |
| Paso del Norte, Tex. | | | | | | | | 20 | |
| Puget Sound, Wash. | | | | 22 | 67 | | 1,436 | 1,343 | 1,504 |
| San Diego, Cal. | | | | | 7 | | | | |
| San Francisco, Cal. | | | | | | | | | 1,222 |
| Arizona | | | | | | | 20 | 790 | |
| Buffalo Creek, N. Y. | 4,748 | 5,903 | 2,378 | 4,141 | 6,364 | 6,584 | 19,193 | 18,014 | 35,185 |
| Champlain, N. Y. | 1,961 | 1,617 | 613 | 3,015 | 937 | 2,320 | 2,446 | 6,561 | 5,771 |
| Detroit, Mich. | 65 | 2,874 | 2,427 | 854 | 129 | 1,441 | 380 | | |
| Huron, Mich. | | | | | | 424 | | | |
| Memphremagog, Vt. | | | | | | | 644 | 246 | |
| North and South Dakota | | | | 137 | | 612 | 942 | | |
| Oswegatchie, N. Y. | | | | | | 487 | 4,915 | 3,702 | 3,714 |
| Vermont | 200 | 139 | 1,569 | | | 26 | 9 | | |
| Total | 38,806 | 266,385 | 780,112 | 1,370,075 | 1,363,617 | 950,543 | 898,262 | 945,352 | 628,612 |
| Belgium | | | | | 524 | | | | 89 |
| France | | 12,000 | | | | | | | |
| Germany | 25 | 910 | 5,850 | 82,916 | 65,974 | 17,921 | 5,180 | 1,555 | |
| Netherlands | | | 2,087 | 25 | 520 | | 600 | 1,400 | |
| United Kingdom | 3,000 | 197,440 | 695,980 | 1,213,377 | 1,188,962 | 813,918 | 727,088 | 731,556 | 477,251 |
| Denmark | | | | 8,150 | 25,323 | 25,437 | 43,344 | 47,957 | 17,376 |
| Norway and Sweden | | | | 270 | 669 | 859 | 1,857 | 25 | |
| Bermuda | 1,550 | 2,312 | 1,395 | 157 | 230 | 202 | 3,222 | 443 | 765 |
| Dominion of Canada: | | | | | | | | | |
| Nova Scotia, New Brunswick, etc. | 406 | 1,278 | 730 | | 288 | 798 | 1,269 | 532 | 1,183 |
| Quebec, Ontario, etc. | 6,974 | 10,533 | 6,977 | 8,147 | 7,430 | 11,894 | 27,587 | 28,600 | 44,670 |
| British Columbia | | | | 22 | 67 | | 2,378 | 1,343 | 1,504 |
| Newfoundland and Labrador | 13 | | | | | 30 | | | |
| Central American States: | | | | | | | | | |
| Costa Rica | | | | | | | | 1,268 | 423 |
| Guatemala | | | | 1,755 | | | | | |
| Honduras | | | | | | | | | |
| Mexico | 488 | 821 | 150 | 1,872 | 330 | | 20 | 854 | 479 |
| Miquelón, Langley, etc. | | | | 35 | | | 60 | | |
| West Indies: | | | | | | | | | |
| British | 4,419 | 1,159 | 1,860 | 2,356 | 1,400 | 2,049 | 1,067 | 6,609 | 4,724 |
| Haiti | | | | 26 | | 332 | | | 52 |

Exports of slate from the United States, showing ports and customs districts from which and to which sent, in the fiscal years 1895-1903—Continued.

| Port and customs district. | 1895. | 1896. | 1897. | 1898. | 1899. | 1900. | 1901. | 1902. | 1903. |
|----------------------------|--------|---------|---------|-----------|-----------|---------|---------|---------|---------|
| West Indies—Continued. | | | | | | | | | |
| Santo Domingo..... | \$10 | | | | | | | | |
| Cuba..... | 3,258 | \$90 | | \$673 | \$16 | | | | |
| Colombia..... | | 259 | \$100 | | | \$285 | | | |
| Guianas: | | | | | | | | | |
| British..... | 702 | 440 | 165 | 600 | | | | | |
| Dutch..... | 340 | | 1,640 | 1,325 | 2,275 | 650 | | \$365 | \$1,399 |
| Peru..... | | | | | | 1,000 | | | |
| Uruguay..... | | 417 | | 807 | 760 | 829 | \$424 | 195 | |
| China..... | | | | 110 | | | | | |
| East Indies—British..... | | 1,628 | 810 | 550 | | | | 50 | |
| British Australasia..... | 17,363 | 34,970 | 60,604 | 44,642 | 64,434 | 71,881 | 79,319 | 121,921 | 75,976 |
| British Oceania..... | | | | | | | | | 1,222 |
| Hawaiian Islands..... | | 245 | 166 | | 77 | | | | |
| British Africa, South..... | 258 | 1,883 | 1,598 | 2,218 | 4,335 | 2,458 | 4,847 | 679 | 1,499 |
| Portuguese Africa..... | | | | 42 | 3 | | | | |
| Total..... | 38,806 | 266,385 | 780,112 | 1,370,075 | 1,363,617 | 950,543 | 898,262 | 945,352 | 628,612 |

MARBLE.

The marble production of 1903 was valued at \$5,362,686, an increase of \$318,504 over the value for 1902, which was \$5,044,182. Arkansas and Montana had no output in 1903, but North Carolina was added to the list of producers. The increase was from the quarries in New York and Vermont; the production in the other States decreased somewhat.

Strikes in the building trade affected the marble industry as well as the other branches of the stone business.

The following table shows the value of the marble produced in the United States from 1899 to 1903, inclusive, by States:

Value of marble, by States, from 1899 to 1903, inclusive.

| State. | 1899. | 1900. | 1901. | 1902. | 1903. |
|----------------------|----------------------|-----------|-----------|----------------------|---------------------|
| Alabama | | \$500 | | (a) | (a) |
| Alaska | | | \$4,500 | | |
| Arizona | | 5,000 | 300 | | (a) |
| Arkansas | \$3,410 | | 300 | (a) | |
| California | 6,500 | 17,500 | 6,642 | \$92,298 | \$78,329 |
| Colorado | 10,776 | | | | |
| Connecticut | | | | (a) | (a) |
| Georgia | 742,554 | 631,241 | 936,549 | 660,517 | 565,605 |
| Idaho | | 1,250 | | | |
| Maryland | 77,000 | 70,000 | 68,100 | (a) | 83,672 |
| Massachusetts | 59,416 | 130,735 | 126,546 | 165,489 | 154,228 |
| Missouri | | 900 | 2,100 | | (a) |
| Montana | | 1,200 | 1,500 | (a) | |
| New Mexico | | 4,500 | 10,600 | (a) | (a) |
| New York | 338,816 | 332,518 | 379,159 | 577,298 | 748,160 |
| North Carolina | | | | | 4,365 |
| Oregon | | | 500 | | |
| Pennsylvania | 139,506 | 151,167 | 157,547 | 160,423 | 93,200 |
| Tennessee | ^b 384,705 | 424,054 | 494,637 | 518,256 | 485,905 |
| Utah | 2,355 | | 320 | (a) | 3,200 |
| Vermont | 2,241,806 | 2,484,852 | 2,753,583 | 2,628,164 | 3,011,505 |
| Washington | 4,837 | 11,836 | 22,816 | 61,176 | 40,117 |
| Wyoming | | | | | 3,100 |
| Other States | | | | ^c 180,561 | ^d 91,300 |
| Total | 4,011,681 | 4,267,253 | 4,965,699 | 5,044,182 | 5,362,686 |

^a Included in Other States.

^b Contains small amount from North Carolina.

^c Includes Alabama, Arkansas, Connecticut, Maryland, Montana, New Mexico, and Utah.

^d Includes Alabama, Arizona, Connecticut, Missouri, and New Mexico.

The following table shows the various uses to which the marble quarried in 1899, 1900, 1901, 1902, and 1903 was put:

Distribution and value of output of marble in 1899, 1900, 1901, 1902, and 1903 among various uses.

| Use. | 1899. | 1900. | 1901. | 1902. | 1903. |
|--|-----------|-----------|-----------|-------------|-------------|
| Sold by producers in rough state | \$640,535 | \$491,813 | \$591,667 | \$2,276,629 | \$2,454,263 |
| Dressed for building | 1,176,208 | 1,080,969 | 1,236,023 | 1,038,102 | 1,111,072 |
| Ornamental purposes | 92,942 | 13,754 | 126,576 | 7,300 | 51,359 |
| Dressed for monumental work | 1,650,155 | 2,019,474 | 1,948,892 | 956,870 | 1,062,339 |
| Interior decoration in buildings | 389,040 | 555,092 | 1,008,482 | 679,913 | 663,553 |
| Other uses | 62,801 | 106,151 | 54,059 | 85,268 | 20,100 |
| Total | 4,011,681 | 4,267,253 | 4,965,699 | 5,044,182 | 5,362,686 |

The following table shows the value of the marble produced in the United States in 1902 and 1903, by States and uses:

Value of the marble product, by States and uses, 1902 and 1903.

1902.

| State. | Rough. | | | Dressed. | | | | | Other purposes. | Total. |
|---------------------------------|----------------|-----------------------|----------|-----------|-----------------------|-----------------------|-----------------------------------|-------------------------|-----------------|-----------|
| | Build- ing. | Monu- men- tal. | Other. | Building. | Monu- men- tal. | Orna- men- tal. | Inter- ior deco- ration. | Other pur- poses. | | |
| Alabama..... | | | | | | | | | | (a) |
| Arizona..... | | | | | | | | | | |
| Arkansas..... | | | | | | | | | | (a) |
| California..... | \$13,400 | \$98 | \$19,700 | | \$4,000 | \$100 | \$55,000 | | | \$92,298 |
| Connecticut..... | | | | | | | | | | (a) |
| Georgia..... | 350,000 | 166,017 | 81,000 | \$50,000 | 7,500 | | 6,000 | | | 660,517 |
| Maryland..... | | | | | | | | | | (a) |
| Massachusetts..... | 51,695 | | | 81,394 | | 6,000 | 15,056 | | \$11,344 | 165,489 |
| Missouri ^b | | | | | | | | | | |
| Montana..... | | | | | | | | | | (a) |
| New Mexico..... | | | | | | | | | | (a) |
| New York..... | 83,230 | 75,342 | 8,433 | 267,013 | 143,080 | 200 | | | | 577,298 |
| Oregon ^b | | | | | | | | | | |
| Pennsylvania..... | 22,446 | | | 110,977 | 24,000 | | | | 3,000 | 160,423 |
| Tennessee..... | 227,337 | 26,000 | 4,500 | | 9,000 | | 240,419 | \$11,000 | | 518,256 |
| Utah..... | | | | | | | | | | (a) |
| Vermont..... | 353,534 | 677,528 | 25,070 | 433,265 | 758,390 | | 321,689 | 58,688 | | 2,628,164 |
| Washington..... | 7,000 | | | 31,873 | | | 19,200 | 1,000 | | 61,176 |
| Other States ^c | 36,997 | 40,819 | 2,103 | 63,780 | 10,900 | 1,000 | 22,549 | 836 | 1,000 | 180,561 |
| Total..... | 1,146,639 | 985,804 | 3,180 | 1,038,302 | 956,870 | 7,300 | 679,913 | 71,024 | 15,244 | 5,044,182 |

1903.

| | | | | | | | | | | |
|---------------------------------|-----------|-----------|----------|-----------|-----------|----------|----------|---------|-------|-----------|
| Alabama..... | | | | | | | | | | (a) |
| Arizona..... | | | | | | | | | | (a) |
| Arkansas..... | | | | | | | | | | |
| California..... | \$6,879 | | | \$20,000 | \$1,200 | | \$48,000 | \$2,000 | \$250 | \$78,329 |
| Connecticut..... | | | | | | | | | | (a) |
| Georgia..... | 271,432 | \$198,223 | \$50,000 | 25,000 | | \$18,000 | 2,950 | | | 565,605 |
| Maryland..... | 28,180 | 25,065 | 30,427 | | | | | | | 83,672 |
| Massachusetts..... | 5,387 | | 5,000 | 134,600 | | 2,400 | 6,841 | | | 154,228 |
| Missouri..... | | | | | | | | | | (a) |
| Montana..... | | | | | | | | | | |
| New Mexico..... | | | | | | | | | | (a) |
| New York..... | 195,506 | 64 | 7,595 | 356,561 | 179,434 | | | | | 748,160 |
| North Carolina..... | | 4,365 | | | | | | | | 4,365 |
| Oregon ^d | | | | | | | | | | |
| Pennsylvania..... | 5,090 | 200 | 194 | 56,866 | 27,000 | | | | 3,850 | 93,200 |
| Tennessee..... | 94,500 | 15,000 | 125,279 | 134,226 | 3,500 | | 99,600 | 13,700 | 100 | 485,905 |
| Utah..... | 200 | 3,000 | | | | | | | | 3,200 |
| Vermont..... | 485,990 | 649,887 | 227,400 | 280,058 | 847,258 | 18,850 | 502,062 | | | 3,011,505 |
| Washington..... | 7,500 | 800 | | 14,761 | 3,847 | 12,009 | 1,000 | 200 | | 40,117 |
| Wyoming..... | | | | | | | 3,100 | | | 3,100 |
| Other States ^e | 6,400 | | 4,700 | 80,000 | 100 | 100 | | | | 91,300 |
| Total..... | 1,107,064 | 896,604 | 450,595 | 1,111,072 | 1,062,339 | 51,359 | 663,553 | 15,900 | 4,200 | 5,362,686 |

^aIncluded in Other States.

^bProduction of Missouri and Oregon included under report on limestone.

^cIncludes Alabama, Arkansas, Connecticut, Maryland, Montana, New Mexico, and Utah.

^dProduction of Oregon included under report on limestone.

^eIncludes Alabama, Arizona, Connecticut, Missouri, and New Mexico.

LIMESTONE.

The limestone production in the United States in 1903, including limestone for furnace flux, was valued at \$32,066,283; in 1902 the value was \$30,231,003, a gain in 1903 of \$1,835,280. In 1902 the increase over the value for 1901, which was \$26,406,897, was \$3,824,106.

The chief increase was in the value of crushed stone, which was \$8,580,866 in 1903 as compared with \$7,152,730 in 1902, an increase of \$1,428,136. The value of lime, furnace flux, flagstone, curbstone, paving stone, and riprap increased slightly, while building stone and rubble decreased in value. In many cases building stone and lime were affected by the labor troubles.

The most important States in value of production were Pennsylvania, Ohio, Illinois, Indiana, New York, Missouri, and Wisconsin, in the order named, ranking as in 1902, except that Illinois and Ohio changed places.

The value of the limestone quarried and used by Portland cement manufacturers is not included in the total. No regular attempt was made to collect the figures of this production, but its value amounted to over \$500,000.

The following tables show the value of the production of limestone in the United States in 1902 and 1903, by States and uses:

Value of the production of limestone in the United States in 1902 and 1903, by States and uses.

1902.

| State or Territory. | Building purposes. | Flagging. | Curbing. | Lime made. | Stone sold to lime burners. | Crushed stone. | | |
|---------------------|--------------------|-----------|----------|------------|-----------------------------|----------------|-------------------|-----------|
| | | | | | | Road making. | Railroad ballast. | Concrete. |
| Alabama..... | \$37,358 | | \$1,275 | \$235,568 | | \$7,890 | \$2,500 | \$2,500 |
| Arkansas..... | 1,900 | | 1,500 | 82,853 | | 15,510 | 7,000 | |
| California..... | 17,250 | | 250 | 395,995 | | 900 | 1,625 | 24,375 |
| Colorado..... | | | | 46,345 | \$521 | | | |
| Connecticut..... | | | | 203,899 | | | | |
| Florida..... | 11,000 | | | 37,963 | | 9,658 | 1,350 | |
| Georgia..... | 4,295 | \$17,500 | | 71,724 | | | 12,310 | |
| Idaho..... | | | | 13,049 | | | | |
| Illinois..... | 640,443 | 70,491 | 39,296 | 485,644 | | 588,796 | 399,537 | 232,439 |
| Indiana..... | 1,813,577 | 75,659 | 117,077 | 312,189 | | 180,188 | 55,740 | 38,563 |
| Iowa..... | 195,009 | 6,893 | 2,374 | 114,051 | 95 | 103,074 | 21,298 | 29,000 |
| Kansas..... | 175,374 | 7,315 | 5,675 | 7,358 | | 18,598 | 354,721 | 10,585 |
| Kentucky..... | 124,467 | 1,305 | 45,773 | 15,893 | | 125,048 | 176,032 | 26,137 |
| Maine..... | | | | 742,132 | | | | |
| Maryland..... | 16,953 | | 1,575 | 326,417 | 5,834 | 74,205 | 17,161 | 4,600 |
| Massachusetts..... | 12,378 | | | 324,480 | | | | 1,093 |
| Michigan..... | 58,707 | 200 | 489 | 208,232 | 98,000 | 56,261 | 40,810 | 49,430 |
| Minnesota..... | 451,368 | 25,481 | 7,260 | 75,870 | 1,344 | 65,744 | | 62,500 |
| Missouri..... | 429,115 | 536 | 32,444 | 515,780 | | 193,327 | 141,185 | 168,229 |
| Montana..... | 6,375 | 1,400 | | 8,775 | | | | |
| Nebraska..... | 46,910 | 150 | 85 | 150 | 400 | 15,050 | 12,510 | 25,182 |
| Nevada..... | | | | 2,800 | | | | |
| New Jersey..... | 4,450 | | | 123,478 | | | | 580 |
| New York..... | 480,141 | 3,420 | 857 | 561,228 | 43,531 | 514,916 | 267,189 | 302,489 |
| North Carolina..... | | | | 2,090 | | 21,063 | | |
| Ohio..... | 329,808 | 5,604 | 4,718 | 1,082,277 | 62,218 | 454,170 | 317,281 | 180,300 |
| Oklahoma..... | 22,562 | 7,783 | 4,540 | 25 | | | 9,000 | |
| Oregon..... | | | | 20,133 | | | | |
| Pennsylvania..... | 209,215 | 3,971 | 4,572 | 1,429,643 | 16,690 | 215,533 | 575,244 | 358,578 |
| Rhode Island..... | | | | | | | | |
| South Carolina..... | | | | 70,124 | | | 350 | |
| South Dakota..... | 775 | | | 21,300 | | | | 9,600 |
| Tennessee..... | 57,339 | 180 | 3,257 | 235,615 | | 8,878 | 56,317 | 5,518 |
| Texas..... | 69,327 | 6,620 | 8,700 | 82,500 | | | 400 | 18,593 |
| Utah..... | 3,960 | | | 99,463 | | 400 | | |
| Vermont..... | 4,500 | | | 219,306 | | 1,387 | | |
| Virginia..... | 41,355 | | | 241,984 | | | 7,875 | 11,580 |
| Washington..... | | | | 186,070 | | | | |
| West Virginia..... | 25 | 400 | | 181,608 | 8,760 | 1,455 | 153,696 | 2,200 |
| Wisconsin..... | 296,998 | 6,780 | 50,251 | 549,357 | | 218,934 | 29,950 | 36,593 |
| Wyoming..... | 90 | | | 2,250 | | | | |
| Total..... | 5,563,034 | 241,688 | 331,968 | 9,335,618 | 237,393 | 2,890,985 | 2,661,081 | 1,600,664 |

Value of the production of limestone in the United States in 1902 and 1903, by States and uses—Continued.

1902.

| State or Territory. | Rubble. | Riprap. | Flux. | Other purposes. | Total. |
|----------------------|-----------|---------|-----------|-----------------|------------|
| Alabama | \$1,735 | \$5,726 | \$465,065 | ..... | \$759,617 |
| Arkansas ..... | ..... | 4,350 | ..... | \$50 | 113,163 |
| California | 5,250 | 1,400 | 5,250 | 44,548 | 496,843 |
| Colorado ..... | ..... | ..... | 155,484 | 1,350 | 203,700 |
| Connecticut ..... | ..... | ..... | 1,472 | ..... | 205,371 |
| Florida ..... | ..... | 3,600 | ..... | ..... | 63,571 |
| Georgia ..... | ..... | ..... | 5,760 | ..... | 111,589 |
| Idaho ..... | ..... | ..... | 2,025 | ..... | 15,074 |
| Illinois | 353,699 | 154,624 | 214,881 | 42,758 | 3,222,608 |
| Indiana | 37,916 | 15,346 | 187,265 | 32,171 | 2,865,691 |
| Iowa | 144,339 | 32,588 | ..... | 1,263 | 649,984 |
| Kansas | 79,769 | 9,292 | ..... | 1,849 | 670,536 |
| Kentucky ..... | ..... | 22,500 | 15,487 | 41,105 | 593,747 |
| Maine ..... | ..... | ..... | 1,000 | 2,000 | 745,132 |
| Maryland ..... | ..... | 22 | 3,263 | 3,000 | 453,030 |
| Massachusetts ..... | ..... | ..... | 1,398 | ..... | 339,349 |
| Michigan | 3,101 | 5,740 | 32,246 | 68,164 | 621,380 |
| Minnesota | 106,693 | 33,447 | ..... | 1,150 | 830,857 |
| Missouri | 147,151 | 43,998 | 14,065 | 11,309 | 1,697,139 |
| Montana | 175 | ..... | 88,000 | ..... | 104,725 |
| Nebraska | 24,114 | 16,515 | 4,407 | ..... | 145,473 |
| Nevada ..... | ..... | ..... | ..... | ..... | 2,800 |
| New Jersey ..... | ..... | ..... | 58,142 | ..... | 181,650 |
| New York | 95,026 | 5,806 | 92,849 | 51,669 | 2,419,121 |
| North Carolina ..... | ..... | ..... | ..... | ..... | 23,153 |
| Ohio | 32,163 | 46,786 | 630,325 | 56,068 | 3,201,718 |
| Oklahoma | 4,570 | ..... | ..... | 2,061 | 50,541 |
| Oregon ..... | ..... | ..... | ..... | ..... | 20,133 |
| Pennsylvania | 4,419 | 42,092 | 2,461,426 | 98,904 | 5,420,287 |
| Rhode Island ..... | ..... | ..... | 1,190 | ..... | 71,664 |
| South Carolina ..... | ..... | ..... | ..... | ..... | ..... |
| South Dakota | 180 | ..... | 54,750 | ..... | 86,605 |
| Tennessee | 3,045 | 2,264 | 108,860 | 700 | 482,033 |
| Texas | 8,765 | 2,325 | 23,432 | 8,000 | 228,662 |
| Utah ..... | ..... | ..... | 82,840 | ..... | 186,663 |
| Vermont | 385 | ..... | 125 | ..... | 225,703 |
| Virginia ..... | ..... | ..... | 220,001 | 11,318 | 534,113 |
| Washington ..... | ..... | ..... | 22,239 | 5,505 | 213,814 |
| West Virginia ..... | ..... | 163 | 268,059 | ..... | 616,366 |
| Wisconsin | 44,234 | 59,573 | 50,946 | 7,442 | 1,351,058 |
| Wyoming ..... | ..... | ..... | 4,000 | ..... | 6,340 |
| Total | 1,096,729 | 508,157 | 5,271,252 | 492,384 | 30,231,003 |

Value of the production of limestone in the United States in 1902 and 1903, by States and uses—Continued.

1903.

| State or Territory. | Building purposes. | Flagging. | Curbing. | Paving. | Lime made. | Stone sold to lime burners. |
|-----------------------|--------------------|-----------|----------|---------|------------|-----------------------------|
| Alabama..... | \$48,903 | | | \$2,680 | \$216,894 | \$432 |
| Arizona..... | | | | | 1,260 | |
| Arkansas..... | 74,102 | | | 22,000 | 89,337 | |
| California..... | 25,000 | | \$140 | | 381,750 | 15,000 |
| Colorado..... | | | | | 43,042 | 10,595 |
| Connecticut..... | | | | | 152,568 | |
| Florida..... | 10,000 | | | | 44,137 | |
| Georgia..... | 2,850 | | | | 62,902 | |
| Idaho..... | 752 | | | | 18,200 | |
| Illinois..... | 359,856 | \$44,927 | 19,233 | 288,098 | 479,801 | 1,638 |
| Indiana..... | 1,880,561 | 31,184 | 126,684 | 1,942 | 314,206 | |
| Indian Territory..... | | | | | 800 | |
| Iowa..... | 196,843 | 2,408 | 3,506 | 12,469 | 98,525 | 105 |
| Kansas..... | 138,779 | 6,057 | 12,457 | 5,175 | 14,460 | 20 |
| Kentucky..... | 172,774 | 2,589 | 19,222 | 12,300 | 50,988 | |
| Maine..... | | | | | 791,690 | |
| Maryland..... | 8,361 | 340 | 5,129 | 1,479 | 320,494 | 1,219 |
| Massachusetts..... | 3,715 | 1,000 | | | 262,815 | |
| Michigan..... | 36,528 | 5,150 | 250 | 49,000 | 218,609 | 132,600 |
| Minnesota..... | 318,288 | 20,745 | 11,494 | 4,843 | 66,619 | 100 |
| Missouri..... | 447,884 | 11,628 | 23,791 | 11,734 | 641,948 | 4,100 |
| Montana..... | 2,200 | | | | 21,100 | |
| Nebraska..... | 54,591 | 687 | 775 | 22 | | 1,624 |
| Nevada..... | | | | | 2,400 | |
| New Jersey..... | 3,260 | | | | 120,796 | 20 |
| New Mexico..... | | | | | 1,000 | |
| New York..... | 401,742 | 5,259 | 9,703 | 250 | 535,845 | 163,829 |
| North Carolina..... | | | | | 600 | |
| Ohio..... | 320,432 | 13,230 | 51,694 | 27,796 | 971,011 | 36,305 |
| Oklahoma..... | 10,696 | 5,256 | 530 | | 4,000 | |
| Oregon..... | 700 | | | | 13,684 | |
| Pennsylvania..... | 156,783 | 3,216 | 4,750 | 59,818 | 1,431,863 | 19,173 |
| Rhode Island..... | | | | | 38,432 | |
| South Carolina..... | | | | | 43,830 | |
| South Dakota..... | 375 | | | | 13,051 | |
| Tennessee..... | 81,769 | 1,047 | 11,670 | 925 | 198,613 | 50 |
| Texas..... | 30,720 | 2,910 | 19,056 | 120 | 74,038 | 80 |
| Utah..... | 11,645 | | | | 493,290 | |
| Vermont..... | 6,110 | | | | 180,769 | |
| Virginia..... | 5,325 | | | | 336,461 | 1,665 |
| Washington..... | 8,100 | | | | 222,052 | 4,896 |
| West Virginia..... | 81 | | | | 152,947 | 13,385 |
| Wisconsin..... | 161,366 | 9,328 | 35,083 | 15,109 | 555,314 | 4,180 |
| Wyoming..... | 150 | | | | 12,033 | |
| Total..... | 4,981,241 | 166,961 | 355,167 | 515,760 | 9,694,174 | 411,016 |

Value of the production of limestone in the United States in 1902 and 1903, by States and uses—Continued.

1903.

| State or Territory. | Crushed stone. | | | Rubble. | Riprap. | Flux. | Other purposes. | Total. |
|------------------------|----------------|-------------------|-----------|---------|---------|-----------|-----------------|------------|
| | Road making. | Railroad ballast. | Concrete. | | | | | |
| Alabama | | \$400 | \$60 | \$300 | \$5,000 | \$444,735 | | \$719,404 |
| Arizona | | | | | | | | 1,260 |
| Arkansas | \$5,800 | 13 | | 5,000 | 46,375 | | | 242,628 |
| California | 75,475 | 825 | 15,945 | 1,200 | | 5,705 | \$90,086 | 611,126 |
| Colorado | | | | 30 | 4,213 | 160,240 | | 218,120 |
| Connecticut | | | | | | 1,968 | | 154,536 |
| Florida | | 3,256 | | | 7,500 | | | 64,893 |
| Georgia | | 6,000 | 1,600 | | | | | 73,352 |
| Idaho | | | | | | | | 18,952 |
| Illinois | 386,685 | 588,364 | 407,774 | 265,852 | 112,433 | 246,379 | 5,231 | 3,206,271 |
| Indiana | 236,467 | 42,427 | 53,750 | 49,364 | 15,756 | 155,209 | 27,724 | 2,935,274 |
| Indian Territory | 650 | | | | | | | 1,450 |
| Iowa | 95,306 | 13,479 | 68,699 | 99,478 | 42,715 | | 1,898 | 655,431 |
| Kansas | 20,038 | 212,140 | 24,050 | 35,180 | 19,779 | | 6,934 | 495,069 |
| Kentucky | 131,122 | 264,490 | 54,708 | 968 | 14,272 | 16,478 | 6,679 | 746,590 |
| Maine | | | | | | | 1,863 | 793,553 |
| Maryland | 18,102 | 15,356 | 15,006 | 80 | | 200 | 460 | 386,226 |
| Massachusetts | 50 | | | | | 4,891 | | 272,471 |
| Michigan | 61,342 | 35,340 | 48,504 | 710 | 800 | 15,502 | 4,747 | 609,082 |
| Minnesota | 30,210 | 11,800 | 67,030 | 110,270 | 24,994 | 250 | 9,447 | 676,090 |
| Missouri | 323,920 | 330,731 | 387,005 | 180,201 | 99,497 | 22,060 | 32,189 | 2,516,688 |
| Montana | | | | | 94 | 129,300 | | 152,694 |
| Nebraska | 8,449 | 33,500 | 32,503 | 19,849 | 27,538 | 8,080 | 100 | 187,718 |
| Nevada | | | | | | | | 2,400 |
| New Jersey | 1,271 | | 1,137 | 1,050 | | 60,084 | 93 | 187,711 |
| New Mexico | | | | | | | | 1,000 |
| New York | 559,744 | 203,820 | 470,650 | 68,546 | 16,625 | 72,113 | 35,630 | 2,543,756 |
| North Carolina | | | | | | | | 600 |
| Ohio | 548,073 | 391,998 | 135,795 | 49,064 | 25,982 | 668,778 | 80,514 | 3,320,672 |
| Oklahoma | | 30,000 | | 2,583 | | | 1,625 | 54,690 |
| Oregon | | | | 1,500 | 800 | | | 16,684 |
| Pennsylvania | 211,151 | 656,317 | 546,302 | 4,758 | 38,960 | 2,553,711 | 88,704 | 5,775,506 |
| Rhode Island | 300 | | | | | 583 | | 39,315 |
| South Carolina | 850 | | | | | 100 | | 44,780 |
| South Dakota | | | 19,026 | 510 | | 6,304 | | 39,266 |
| Tennessee | 13,117 | 53,221 | 42,430 | 12,172 | 2,828 | 136,903 | 829 | 555,574 |
| Texas | 23,898 | 27,765 | 6,968 | 13,161 | 1,971 | 55,551 | 5,815 | 262,053 |
| Utah | | | | | | 103,465 | 10,500 | 618,900 |
| Vermont | 845 | | 2,500 | | 100 | 200 | 200 | 190,724 |
| Virginia | 300 | 16,205 | 9,238 | | 22 | 199,989 | | 569,205 |
| Washington | 250 | 1,700 | | | | 60,703 | | 297,701 |
| West Virginia | | 148,446 | | | | 243,135 | 30 | 558,024 |
| Wisconsin | 244,132 | 18,009 | 67,037 | 37,349 | 47,110 | 51,116 | 11,528 | 1,256,661 |
| Wyoming | | | | | | | | 12,183 |
| Total | 2,997,547 | 3,105,602 | 2,477,717 | 959,175 | 555,365 | 5,423,732 | 422,826 | 32,066,233 |

The following table shows the production of limestone in the United States from 1899 to 1903, by States:

Value of limestone, 1899-1903, by States.

| State. | 1899. | 1900. | 1901. | 1902. | 1903. |
|------------------------|------------|------------|------------|------------|------------|
| Alabama | \$364,636 | \$533,608 | \$619,423 | \$759,617 | \$719,404 |
| Arizona | 960 | 165 | 300 | ..... | 1,260 |
| Arkansas | 71,965 | 71,407 | 68,319 | 113,163 | 242,628 |
| California | 287,295 | 407,489 | 645,455 | 496,843 | 611,126 |
| Colorado | 96,456 | 160,587 | 245,799 | 203,700 | 218,120 |
| Connecticut | 162,388 | 148,060 | 140,424 | 205,371 | 154,536 |
| Florida | 44,002 | 128,381 | 51,870 | 63,571 | 64,873 |
| Georgia | 29,786 | 54,451 | 85,629 | 111,589 | 73,352 |
| Idaho | 3,325 | 34,587 | 21,251 | 15,074 | 18,952 |
| Illinois | 2,065,483 | 1,881,151 | 2,793,837 | 3,222,608 | 3,206,271 |
| Indiana | 2,173,833 | 2,344,818 | 2,993,186 | 2,865,691 | 2,935,274 |
| Indian Territory ..... | ..... | ..... | ..... | ..... | 1,450 |
| Iowa | 785,576 | 586,410 | 777,484 | 649,984 | 635,431 |
| Kansas | 379,001 | 339,466 | 478,986 | 670,536 | 495,069 |
| Kentucky | 178,861 | 178,252 | 199,567 | 593,747 | 746,590 |
| Maine | 1,028,375 | 691,312 | 715,272 | 745,132 | 793,553 |
| Maryland | 235,225 | 317,207 | 382,381 | 453,030 | 386,226 |
| Massachusetts | 168,147 | 209,359 | 244,039 | 339,349 | 272,471 |
| Michigan | 371,210 | 425,636 | 565,931 | 621,380 | 609,682 |
| Minnesota | 496,462 | 441,554 | 522,778 | 830,857 | 676,030 |
| Missouri | 977,399 | 1,079,343 | 1,362,272 | 1,697,139 | 2,516,688 |
| Montana | 113,718 | 141,093 | 143,866 | 104,725 | 152,694 |
| Nebraska | 125,017 | 107,305 | 154,717 | 145,473 | 187,718 |
| Nevada ..... | ..... | ..... | ..... | 2,800 | 2,400 |
| New Jersey | 153,025 | 170,006 | 309,738 | 181,650 | 187,711 |
| New Mexico ..... | ..... | ..... | ..... | ..... | 1,000 |
| New York | 1,545,699 | 1,730,162 | 1,738,716 | 2,419,121 | 2,543,756 |
| North Carolina ..... | ..... | ..... | 8,266 | 23,153 | 600 |
| Ohio | 1,793,604 | 1,969,387 | 2,606,502 | 3,201,718 | 3,320,672 |
| Oklahoma | 50,550 | 25,586 | 32,497 | 50,541 | 54,690 |
| Oregon | 8,000 | 10,900 | 24,520 | 20,133 | 16,684 |
| Pennsylvania | 3,088,583 | 3,800,318 | 5,081,387 | 5,420,287 | 5,775,506 |
| Rhode Island | 18,239 | 16,828 | 38,030 | 71,664 | 39,315 |
| South Carolina | 17,650 | 38,415 | 28,500 | ..... | 44,780 |
| South Dakota | 45,808 | 47,762 | 53,780 | 85,605 | 39,266 |
| Tennessee | 208,097 | 238,505 | 330,927 | 482,033 | 555,574 |
| Texas | 100,025 | 124,728 | 209,658 | 228,662 | 262,053 |
| Utah | 6,381 | 12,749 | 78,900 | 186,663 | 618,900 |
| Vermont | 282,173 | 188,100 | 205,138 | 225,703 | 190,724 |
| Virginia | 255,640 | 403,318 | 539,128 | 534,113 | 569,205 |
| Washington | 139,339 | 249,163 | 234,587 | 213,814 | 297,701 |
| West Virginia | 58,802 | 53,701 | 447,049 | 616,366 | 558,024 |
| Wisconsin | 826,486 | 989,685 | 1,225,448 | 1,351,058 | 1,256,661 |
| Wyoming | 742 | 3,065 | 1,340 | 6,340 | 12,183 |
| Total | 18,757,963 | 20,354,019 | 26,406,897 | 30,231,003 | 32,066,283 |

The following table shows the quantity and value of the blast-furnace flux produced in 1902 and 1903, by States:

Production of blast-furnace flux in 1902 and 1903, by States.

| State. | 1902. | | 1903. | |
|---------------------|-------------------|-----------|-------------------|-----------|
| | Quantity. | Value. | Quantity. | Value. |
| | <i>Long tons.</i> | | <i>Long tons.</i> | |
| Alabama..... | 1,001,884 | \$465,065 | 1,006,814 | \$444,735 |
| California..... | 3,500 | 5,250 | 8,410 | 5,705 |
| Colorado..... | 402,735 | 155,484 | 353,849 | 160,240 |
| Connecticut..... | 2,942 | 1,472 | 3,698 | 1,968 |
| Georgia..... | 14,400 | 5,760 | | |
| Idaho..... | 2,025 | 2,025 | | |
| Illinois..... | 483,348 | 214,881 | 491,542 | 246,379 |
| Indiana..... | 438,717 | 187,265 | 400,268 | 155,209 |
| Kentucky..... | 36,354 | 15,487 | 33,836 | 16,478 |
| Maine..... | 2,000 | 1,000 | | |
| Maryland..... | 3,654 | 3,263 | 490 | 200 |
| Massachusetts..... | 2,732 | 1,398 | 6,792 | 4,891 |
| Michigan..... | 58,567 | 32,246 | 23,518 | 15,502 |
| Minnesota..... | | | 500 | 250 |
| Missouri..... | 25,115 | 14,065 | 25,953 | 22,060 |
| Montana..... | 198,000 | 88,000 | 229,000 | 129,300 |
| Nebraska..... | 8,814 | 4,407 | 10,150 | 8,080 |
| New Jersey..... | 110,371 | 53,142 | 119,294 | 60,084 |
| New York..... | 178,019 | 92,849 | 121,170 | 72,113 |
| Ohio..... | 1,559,933 | 630,325 | 1,632,367 | 668,778 |
| Pennsylvania..... | 5,645,857 | 2,461,426 | 5,558,051 | 2,553,711 |
| Rhode Island..... | 950 | 1,190 | 433 | 583 |
| South Carolina..... | | | 100 | 100 |
| South Dakota..... | 97,768 | 54,750 | 14,510 | 6,304 |
| Tennessee..... | 284,895 | 108,860 | 313,721 | 136,903 |
| Texas..... | 33,393 | 23,432 | 96,884 | 55,551 |
| Utah..... | 113,194 | 82,840 | 160,432 | 103,465 |
| Vermont..... | 250 | 125 | 400 | 200 |
| Virginia..... | 565,704 | 220,001 | 499,108 | 199,989 |
| Washington..... | 23,917 | 22,239 | 101,161 | 60,703 |
| West Virginia..... | 740,901 | 268,059 | 708,572 | 243,135 |
| Wisconsin..... | 89,309 | 50,946 | 108,696 | 51,116 |
| Wyoming..... | 10,000 | 4,000 | | |
| Total..... | 12,139,248 | 5,271,252 | 12,029,719 | 5,423,732 |

As will be seen from this table the production of limestone quarried for blast-furnace flux decreased from 12,139,248 long tons in 1902 to 12,029,719 long tons in 1903, a loss of 109,529 tons in quantity, while the value increased from \$5,271,252 in 1902 to \$5,423,732 in 1903, or \$152,480.