# SUMMARY OF THE MINERAL PRODUCTION OF THE UNITED STATES IN 1906.

### COMPILED BY WM. TAYLOR THOM.

### GENERAL REMARKS.

The varied character of the units of measurement employed in the mineral industry makes it impossible to compare the outputs of the several minerals except in the value of the products. The figures given in the following summary show a continuation of the activity in the mineral industries of the United States noted in 1900, 1901, 1902, and 1903, though the value of the output for 1904 was almost 9 per cent less than that for 1903; the value in 1905 was about 9 per cent greater than that for 1903.

In 1906, for the second time, the total value of our mineral pro-

duction exceeded the enormous sum of \$1,500,000,000.

The exact figures for 1906 are \$1,902,517,565, as compared with \$1,623,928,720 in 1905, with \$1,361,067,554 in 1904, with \$1,491,928,980 in 1903, and with \$1,323,102,717 in 1902; a gain in 1906 over 1905 of \$278,588,845, or 17.15 per cent; a gain in 1906 over 1904 of \$541,450,011, or 39.78 per cent; over 1903 of \$410,588,585, or 27.52 per cent, and over 1902 of \$579,414,848, or 43.79 per cent.

As heretofore, iron and coal are the most important of our mineral products. The value of the iron in 1906 was \$505,700,000; the value of the coal \$513,079,809. The fuels increased from \$602,-257,548 in 1905, to \$652,398,476 in 1906, a gain of \$50,140,928, or 8.33 per cent. Anthracite coal showed a decrease in value of \$9,961,306, from \$141,879,000 in 1905 to \$131,917,694 in 1906. The average price of anthracite coal per long ton at the mine was \$2.30, as against \$2.25 in 1905, \$2.35 in 1904, \$2.50 in 1903, and \$2.35 in 1902; and the average price per short ton for bituminous coal at the mine was \$1.11, as against \$1.06 in 1905, \$1.10 in 1904, \$1.24 in 1903, and \$1.12 in 1902. The increase in value of the bituminous coal output over 1905 was \$46,503,821—a combined increase in value of coal of \$36,542,515, or 7.67 per cent.

The gain of \$278,588,845 in the total value of our mineral production is due to gains in both metallic and nonmetallic products, the metallic products showing an increase from \$702,453,101 in 1905 to \$886,110,856 in 1906, a gain of \$183,657,755, and the nonmetallic products showing an increase from \$921,075,619 in 1905 to \$1,016,-206,709 in 1906, a gain of \$95,131,090. To these products should be added estimated unspecified products, including molybdenum, bismuth, and other mineral products, valued at \$200,000, making a

total mineral production for 1906 of \$1,902,517,565.

#### METALS.

Iron and steel.—Twenty States produced pig iron in 1906, as against 20 in 1905, 20 in 1904, 22 in 1903, 22 in 1902, 20 in 1901, and 21 in 1900 and 1899. The total production of pig iron in 1906 was 25,307,191 long tons, as against 22,992,380 long tons in 1905; 16,497,033 long tons in 1904; 18,009,252 tons in 1903; 17,821,307 tons in 1902; and 15,878,354 tons in 1901. The production of 1906 shows an increase in quantity of 2,314,811 long tons, or over 10 per cent, over the production of 1905, and an increase in value from \$382,450,000 to \$505,700,000, amounting to \$123,250,000, or 32.25 per cent. The average price per long ton of pig iron increased from \$16.63 in 1905 to \$19.98 in 1906. The average prices per long ton in recent years have been as follows: 1904, \$14.13; 1903, \$19.12; 1902, \$20.92; 1901, \$15.25.

Iron ores.—The production of iron ores in 1906 amounted to 47,749,728 long tons, as compared with 42,526,133 long tons in 1905, with 27,644,330 long tons in 1904, with 35,019,308 long tons in 1903, and with 35,554,135 tons in 1902. The value at the mines of the ore mined in 1906 was \$100,597,106, as compared with \$75,165,604 in 1905. As in the seven preceding years, the production of iron ores in the United States in 1906 was never equaled by that of any

other country.

Manganese ores.—The production of manganese ores was 2,825 long tons, valued at \$25,335, in 1903, and increased to 3,146 long tons, valued at \$29,466, in 1904, and to 4,118 long tons, valued at \$36,214, in 1905. The average price per ton in 1905 was \$8.80, as compared with \$9.37 in 1904 and with \$8.97 in 1903. In 1906 the production of manganese ores was 6,921 long tons, valued at \$88,132. The average price was \$12.73 per ton. Manganiferous iron ores, carrying from 20 to 40 per cent of manganese, were produced to the extent of 41,300 long tons, valued at \$122,400.

Gold.—The production of gold increased from 3,910,729 ounces, valued at \$80,835,648, in 1904, to 4,265,742 ounces, valued at \$88,180,700, in 1905, and to 4,565,333 ounces, valued at \$94,373,800, in 1906, an increase in 1906 of 299,591 ounces in quantity and of

\$6,193,100 in value.

Silver.—The production of silver increased in quantity from 55,999,864 ounces in 1904 to 56,101,600 ounces in 1905, and to 56,517,900 ounces in 1906; it increased in commercial value from \$32,035,378 in 1904 to \$34,221,976 in 1905, and to \$38,256,400 in 1906, a gain in 1906 of \$4,034,424.

Copper.—The production of copper increased from 812,537,267 pounds, valued at \$105,629,845, in 1904, to 901,907,843 pounds, valued at \$139,795,716, in 1905, and to 917,805,682 pounds, valued at \$177,595,888, in 1906, an increase in 1906 of 15,897,839 pounds in

quantity, and of \$37,800,172 in value.

Lead.—The production of lead in 1906 was 350,153 short tons, as against 302,000 short tons in 1905, 307,000 short tons in 1904, and 282,000 short tons in 1903. The value of the production in 1906 was \$39,917,442, as compared with \$28,690,000 in 1905, with \$26,402,000 in 1904, and with \$23,520,000 in 1903.

Zinc.—The production of zinc in 1906 was 199,694 short tons, as against 203,849 short tons in 1905, 186,702 short tons in 1904, and SUMMARY. 15

159,219 short tons in 1903. The value of the zinc production in 1906 was \$24,362,668, as compared with \$24,054,182 in 1905, with

\$18,670,200 in 1904, and with \$16,717,995 in 1903.

Bauxite.—In 1906 the production of bauxite was 75,332 long tons, valued at \$368,311, as compared with 48,129 long tons, valued at \$240,292, in 1905, with 47,661 long tons, valued at \$235,704, in 1904, and with 48,087 long tons, valued at \$171,306, in 1903.

Aluminum.—The consumption of aluminum during 1906 was 14,910,000 pounds, valued at 4,262,286, as against 11,347,000 pounds, valued at \$3,246,300, in 1905, and 8,600,000 pounds, valued

at \$2,477,000, in 1904.

Quicksilver.—The production of quicksilver during 1906 amounted to 26,238 flasks (of 76½ avoirdupois pounds net; 75 avoirdupois pounds net after June, 1904), as compared with 30,451 flasks in 1905, with 34,570 flasks in 1904, with 35,620 flasks in 1903, and with 34,291 flasks in 1902. The value of the quicksilver produced in 1906 was \$958,634, as compared with \$1,103,120 in 1905, with \$1,503,795 in 1904, with \$1,544,934 in 1903, and with \$1,467,848 in 1902. California reported 20,310 flasks, as compared with 24,635 flasks in 1905, with 29,217 flasks in 1904, with 30,526 flasks in 1903, and with 28,972 flasks in 1902; and Texas reported 4,761 flasks, as against 4,723 flasks in 1905, 5,336 flasks in 1904, 5,029 flasks in 1903, and 5,319 flasks in 1902. Utah reported 1,164 flasks and Oregon 3 flasks in 1906.

Chromic iron ore.—California was the only State producing chromite during 1906, the quantity being 107 long tons, valued at \$1,800, as compared with 22 long tons, valued at \$375 in 1905, with 123 long tons, valued at \$1,845 in 1904; with 150 long tons, valued at \$2,250, in 1903; and with 215 long tons replied of \$4,567 in 1903.

in 1903; and with 315 long tons, valued at \$4,567 in 1902.

Molybdenum.—The commercial production of molybdenum in 1906 was approximately the same as the production of 1905, which, in turn, was in excess of the 1904 production of 14.5 short tons of concentrates, valued at \$2,175. The production in 1903 was 795 short tons of concentrates, valued at \$60,865. The value of molybdenum ores

fluctuates very greatly.

Nickel.—There was no production of metallic nickel reported in 1906 as in 1905, only a small quantity of nickel and cobalt ore being reported as sold. In 1904 the output was 24,000 pounds, as against a production of 114,200 pounds in 1903, and of 5,748 pounds in 1902. The value in 1904 was \$11,400, as against \$45,900 in 1903, and \$2,701 in 1902. The imports of nickel in 1906 were valued at \$1,902,367, as against \$1,962,131 in 1905, \$1,121,491 in 1904, \$1,493,889 in 1903, and \$1,437,649 in 1902.

Rutile.—A small production of rutile, chiefly from Virginia, was

reported in 1906.

Tungsten.—The commercial production of concentrated tungsten ores during 1906 amounted approximately to 928 short tons, valued at \$348,867, as against 803 short tons, valued at \$268,676 in 1905; 740 short tons, valued at \$184,000 in 1904; 292 short tons, valued at \$43,639 in 1903; and 184 short tons in 1902, of which not more than a few tons were sold.

Uranium and vanadium.—The production of uranium and vanadium minerals in 1906, as reported to the Survey and included under unspecified products, was the largest of recent years. The produc-

tion in 1905 was valued at \$375, as against \$10,600 in 1904, \$5,625 in 1903, and \$48,125 in 1902.

Tantalum.—A commercial production of tantalum in 1906 was

reported from Colorado and South Dakota.

Platinum.—The production of platinum from domestic ores in 1906 was 1,439 ounces, valued at \$45,189, as compared with 318 ounces, valued at \$5,320, in 1905; with 200 ounces, valued at \$4,160, in 1904; with 110 ounces, valued at \$2,080, in 1903; and with 94 ounces, valued at \$1,814, in 1902. In December, 1904, the price of ingot platinum at New York advanced from \$18.50 to \$19.50 per ounce; in April, 1905, it was \$20.50; in January, 1906, it was \$20.50, in February, 1906, it advanced to \$25; in September, 1906, it rose to \$33; in November it was \$38, remaining at that price until late in February, 1907, when hard platinum was quoted at \$41 per ounce. This price declined on June 15 to \$26 for ordinary, and \$28.50 for hard; then it rose to \$27 and \$29, respectively, on July 27, and stands now (August 3, 1907), at \$28 for ordinary and \$29.50 for hard.

Antimony.—The antimony obtained from the smelting of domestic ores in 1906 amounted to 404 short tons, valued at \$58,149, and the antimony obtained from hard lead produced from foreign and domestic lead ores was 1,362 short tons, valued at \$286,004, a total production for 1906 of 1,766 short tons, valued at \$602,949, as compared with 3,240 short tons, valued at \$705,787 in 1905; with 3,057 short tons, valued at \$505,524, in 1904; with 3,128 short tons, valued at \$548,433, in 1903; and with 3,561 short tons, valued at \$634,506, in

1902.

Bismuth.—The marketed production of bismuth ore in 1906 was 8,334 pounds, valued at \$12,500; in 1905 it was 24,405 pounds, valued at \$4,187; in 1904 it was 5,184 pounds, valued at \$314. There was no marketed production of bismuth ores in the United States during 1903 or 1902.

Tin.—There was a small production of metallic tin in South Dakota in 1906, which, with concentrates from Alaska and from the North Carolina-South Carolina deposits, was valued at \$35,600.

#### FUELS.

Coal.—For the first time in the history of the United States the production of coal in 1906 reached a total of over 400,000,000 short tons, showing an actual output of 414,157,278 tons of 2,000 pounds, valued at \$513,079,809. Of this total, the output of anthracite coal amounted to 63,645,010 long tons (equivalent to 71,282,411 short tons), which, as compared with the production of 69,339,152 long tons in 1905, was a decrease of 5,694,142 long tons, or over 8 per cent. The value of anthracite coal at the mines in 1906 was \$131,917,694, as against \$141,879,000 in 1905, \$138,974,020 in 1904, \$152,036,448 in 1903, and \$76,173,586 in 1902. The average price of the marketed anthracite coal sold during the year at the mines was \$2.30 per long ton, as against \$2.25 per long ton in 1905, \$2.35 in 1904, \$2.50 in 1903, and \$2.35 in 1902.

The output of bituminous coal (which includes semianthracite and all semibituminous and lignite coals), amounted in 1906 to 342,874,867 short tons, valued at \$381,162,115, as compared with 315,062,785 short tons, valued at \$334,658,294, in 1905; with 278,659,689 short

SUMMARY. 17

tons, valued at \$305,397,001, in 1904; with 282,749,348 short tons, valued at \$351,687,933, in 1903; and with 260,216,844 short tons, valued at \$290,858,483, in 1902. The increase in the production of bituminous coal in 1906 over 1905 was therefore 27,812,082 short tons in quantity and \$46,503,821 in value. The average price of bituminous coal per ton at the mines during 1906 was \$1.11, as against \$1.06 in 1905, \$1.10 in 1904, and \$1.24 per ton in 1903, the

highest price recorded by the Survey.

Coke.—The coke production of the United States in 1906, which included the output, 4,558,127 short tons, from 3,362 retort or byproduct ovens, amounted to 36,401,217 short tons, as compared with 32,231,129 short tons in 1905, with 23,661,106 short tons in 1904, with 25,274,281 short tons in 1903, and with 25,401,730 short tons in 1902. The increase in quantity in 1906 from 1905 was 4,159,088 short tons, or over 12 per cent. The total value was \$91,608,034, as against \$72,476,196 in 1905, a gain of \$19,157,338, or 26 per cent. The average price per ton in 1906 was \$2.52, against \$2.25 in 1905. The average output from the by-product ovens in 1906 was 1,356 tons per oven, against an average of 373.6 tons per oven from the beehive ovens.

Natural gas.—The value of the natural gas produced in 1906 was \$46,873,932, as compared with \$41,562,855 in 1905, with \$38,496,760 in 1904, with \$35,807,860 in 1903, and with \$30,867,863 in 1902—a

gain of about 13 per cent in 1906 over 1905.

Gas, coke, tar, and ammonia.—The aggregate value of all the products obtained from the distillation of coal in gas works and retort ovens in 1905 was \$56,684,972, as against \$51,157,736 in 1904, and \$47,830,600 in 1903. No report has been prepared for 1906; the estimated value of the products is distributed among the respective

States in the table of output and value by States.

Petroleum.—The total production of crude petroleum in the United States in 1906 was 126,493,936 barrels, as against 134,717,580 barrels in 1905, 117,080,960 barrels in 1904, and 100,461,337 barrels in 1903, a decrease in 1906 of 8,277,644 barrels, or 6.14 per cent from the production of 1905. Among the noteworthy changes in production in 1906 were gains, as compared with 1905, of nearly 10,000,000 barrels in the Mid-Continent field and of over 4,000,000 barrels in the Illinois field; these gains were more than offset by losses of over 15,000,000 barrels in Texas, over 3,000,000 barrels in Indiana, and of over 1,000,000 barrels each in Ohio and West Virginia.

The value of crude petroleum produced during 1906 was \$92,444,735, or an average price of 73.1 cents per barrel, as against \$84,157,399, or an average price of 62.47 cents per barrel, in 1905; against \$101,175,455, or 86.41 cents per barrel, in 1904, and against \$94,694,050,

or 94.26 cents per barrel, in 1903.

### STRUCTURAL MATERIALS.

Cement.—The total production of hydraulic cement in the United States in 1906 was 51,000,445 barrels, valued at \$55,302,277, as compared with 40,102,308 barrels, valued at \$35,931,533, in 1905; with 31,675,257 barrels, valued at \$26,031,920, in 1904; with 29,899,140 barrels, valued at \$31,931,341, in 1903, and with 25,753,504 barrels, valued at \$25,366,380, in 1902. The Portland cement production

in 1906 was 46,463,424 barrels, valued at \$52,466,186, as compared with 35,246,812 barrels, valued at \$33,245,867, in 1905; with 26,505,881 barrels, valued at \$23,355,119, in 1904; with 22,342,973 barrels, valued at \$27,713,319, in 1903, and with 17,230,644 barrels, valued at \$20,864,078, in 1902—an increase in quantity in 1906, as compared with 1905, of 11,216,612 barrels, and in value of \$19,220,319. The production of natural cement in 1906 was 4,055,797 barrels, valued at \$2,423,170, as compared with 4,473,049 barrels, valued at \$2,413,052, in 1905; with 4,866,331 barrels, valued at \$2,450,150, in 1904; with 7,030,271 barrels, valued at \$3,675,520, in 1903, and with 8,044,305 barrels, valued at \$4,076,630, in 1902—a decrease in quantity in 1906 of 417,252 barrels and an increase in value of \$10,118. The production of slag cement in 1906 amounted to 481,224 barrels, valued at \$412,921, as against 382,447 barrels, valued at \$272,614, in 1905; 303,045 barrels, valued at \$226,651, in 1904, and 525,896 barrels, valued at \$542,502, in 1903.

Clay products.—The activity in all branches of the clay-working industries noted in the reports as true of 1899, 1900, 1901, 1902, and 1903 diminished very slightly during 1904, but increased vigorously in 1905, which increase continued in 1906. The value of all clay products, as reported to this office in 1906, was \$161,032,722, as against \$149,697,188 in 1905, \$131,023,248 in 1904, \$131,062,421 in 1903, and \$122,169,531 in 1902. The brick and tile products in 1906 were valued at \$129,591,838, as against \$121,778,294 in 1905, \$105,864,978 in 1904, \$105,626,369 in 1903, and \$98,042,078 in 1902. The pottery products were valued in 1906 at \$31,440,884, as against \$27,918,894 in 1905, \$25,158,270 in 1904, \$25,436,052 in 1903, and

\$24,127,453 in 1902.

The commercial production of clay mined and sold in 1906 by those not manufacturing the clay themselves was valued at \$3,245,256, as against \$2,768,006 in 1905, \$2,320,162 in 1904, and \$2,594,042 in 1903.

Lime.—The production of lime in 1906 was 3,197,754 short tons, valued at \$12,480,653, as against 2,984,100 short tons, valued at \$10,941,680, in 1905, and against 2,707,809 short tons, valued at \$9,951,456, in 1904. The output was valued at \$9,255,882 in 1903 and at \$9,335,618 in 1902. The average price per short ton was \$3.67 in 1905 and \$3.90 in 1906.

Sand-lime brick.—The production of sand-lime brick in 1906 was valued at \$1,170,005, as against \$972,064 in 1905, \$463,128 in 1904,

and \$155,040 in 1903.

Slate.—The production of slate in 1906 was valued at \$5,668,346, as against \$5,496,207 in 1905, \$5,617,195 in 1904, \$6,256,885 in 1903,

and \$5,696,051 in 1902.

Stone.—The value of all kinds of stone produced in the United States during 1906 amounted to \$66,378,794, as compared with \$63,798,748 in 1905, with \$58,765,715 in 1904, with \$57,433,141 in 1903, and with \$54,798,682 in 1902.

Included under stone is the limestone used for fluxing in blast furnaces, which in 1906 was 16,077,202 long tons, valued at \$7,612,692, as compared with 15,387,891 long tons, valued at \$7,004,265, in 1905; with 10,657,038 long tons, valued at \$4,702,768, in 1904, and with 12,029,719 long tons, valued at \$5,423,732, in 1903.

### ABRASIVE MATERIALS.

Alundum or artificial corundum.—The production of alundum by the Norton Emery Wheel Company amounted in 1906 to 4,712,000 pounds, valued at \$282,720, an average of 6 cents per pound, as compared with 3,612,000 pounds manufactured in 1905, valued at \$252,840, an average of 7 cents per pound, and with 4,020,000 pounds manufactured in 1904.

Carborundum.—The production of carborundum in 1906 was 6,225,300 pounds as against 5,596,000 pounds in 1905, 7,060,380 pounds in 1904, 4,759,890 pounds in 1903, and 3,741,500 pounds in 1902. The value of the carborundum varies from 7 to 10 cents a

pound.

Corundum and emery.—The combined production of corundum and emery in 1906 amounted to 1,160 short tons, valued at \$44,310, as against 2,126 short tons, valued at \$61,464, in 1905; 1,916 short tons, valued at \$56,985, in 1904; 2,542 short tons, valued at \$64,102, in 1903; and 4,251 short tons, valued at \$104,605, in 1902.

Crushed steel.—The production of crushed steel in 1906 was 837,000 pounds, as against 612,000 pounds in 1905, 790,000 pounds in 1904,

755,000 pounds in 1903, and 735,000 pounds in 1902.

Crystalline quartz.—In 1906 the production of crystalline quartz included under abrasives amounted to 24,082 short tons, valued at \$121,671, as against 19,039 short tons, valued at \$88,118, in 1905; against 31,940 short tons, valued at \$74,850, in 1904; 8,938 short tons, valued at \$76,908, in 1903, and 15,104 short tons, valued at \$84,335 in 1902.

Garnet.—The production of abrasive garnet in the United States during 1906 amounted to 4,650 short tons, valued at \$157,000, as against 5,050 short tons, valued at \$148,095, in 1905; 3,854 short tons, valued at \$117,581, in 1904; 3,950 short tons, valued at \$132,500, in 1903; and 3,926 short tons, valued at \$132,820, in 1902. The average price for the 1906 production is reported at \$33.98 per ton.

Grindstones.—The total value of all kinds of grindstones produced during 1906 was \$744,894, as against \$777,606 in 1905, \$881,527 in 1904, \$721,446 in 1903, and \$667,431 in 1902. The production of 1904 was the largest on record for any year. It should be remembered, however, that the price, which ranged from \$15 to \$18 per ton, has decreased to from \$8 to \$11 per ton, and that therefore the tonnage of grindstones used has correspondingly increased within the last few years.

Infusorial earth and tripoli.—In 1906 the production of infusorial earth and tripoli amounted to 8,099 short tons, valued at \$72,108, as against 10,977 short tons, valued at \$64,637, in 1905; against 6,274 short tons, valued at \$44,164, in 1904; 9,219 short tons, valued at \$76,273, in 1903; and 5,665 short tons, valued at \$53,244, in 1902.

Millstones and buhrstones.—The value of the production of millstones and buhrstones in 1906 was \$48,590, as against \$37,974, in 1905, \$37,338 in 1904, \$52,552 in 1903, and \$59,808 in 1902. From 1886 to 1894 there was a very large decrease—from \$140,000 to \$13,887—in the production of buhrstones. From 1894 to 1902 there was a gradual increase in the production, but there was a comparative decrease in 1903, 1904, 1905, and 1906.

Oilstones and whetstones.—There was a continued increase in the commercial domestic production of oilstones and whetstones during 1906, the value rising from \$188,985 in 1904 to \$244,546 in 1905 and to \$268,070 in 1906. The production was valued at \$366,857 in 1903 and at \$221,762 in 1902.

Pumice.—The production of pumice amounted in 1906 to 12,200 short tons, valued at \$16,750, as against 1,832 short tons, valued at \$5,540 in 1905; 1,530 short tons, valued at \$5,421, in 1904; 885 short tons, valued at \$2,665, in 1903; and 700 short tons, valued at \$2,750, in 1902.

### CHEMICAL MATERIALS.

Arsenious oxide.—The domestic production of arsenious oxide (white arsenic) in 1906 was 1,474,000 pounds, valued at \$63,460, as against 1,507,386 pounds, valued at \$35,210, in 1905; 72,413 pounds, valued at \$2,185, in 1904; 1,222,000 pounds, valued at \$36,691, in 1903; and 2,706,000 pounds, valued at \$81,180, in 1902.

Borax.—The reported returns for 1906 gave an aggregate production of crude borax of 58,173 short tons, valued at \$1,182,410, as against 46,334 short tons, valued at \$1,019,154, in 1905; 45,647 short tons, valued at \$698,810, in 1904; and 34,430 short tons, valued at \$661,400, in 1903.

Bromine.—The production of bromine in 1906, including the bromine contained in potassium bromide, amounted to 1,283,250 pounds, valued at \$165,204, as compared with 1,192,758 pounds, valued at \$178,914, in 1905; with 897,100 pounds, valued at \$269,130, in 1904; with 598,500 pounds, valued at \$167,580, in 1903; and with 513,893 pounds, valued at \$128,472, in 1902.

Fluorspar.—The total commercial production of fluorspar in 1906 was 40,796 short tons, valued at \$244,025, as compared with 57,385 short tons, valued at \$362,488, in 1905; with 36,452 short tons, valued at \$234,755, in 1904; and with 42,523 short tons, valued at \$213,617, in 1903. The prices of crude fluorspar in 1906 were reported as ranging from \$3.60 to \$6 per ton and the prices of ground fluorspar as ranging from \$9 to \$12 per ton.

Gypsum.—The output of crude gypsum in 1906 was 1,540,585 short tons, valued in its first marketable condition at \$3,837,975, as compared with 1,043,202 short tons, valued at \$3,029,227, in 1905; with 940,917 short tons, valued at \$2,784,325, in 1904; with 1,041,704 short tons, valued at \$3,792,943, in 1903; and with 816,478 short tons, valued at \$2,089,341, in 1902. The greatly increased production of late years is attributable to the largely increased use of wall plaster and of plaster of Paris in large modern buildings.

Lithium minerals.—The production of lithium minerals in 1906 was 383 short tons, valued at \$7,411, as against 79 short tons, valued at \$1,412, in 1905; 577 short tons, valued at \$5,155, in 1904; and 1,155 short tons, valued at \$23,425, in 1903. The output in 1905 and 1906 came from California and South Dakota. There were no imports of lithium salts in either 1905 or 1906.

Marls.—The production of marls in the United States in 1906 was 19,104 short tons, valued at \$7,341; in 1905 it was 38,026 short tons, valued at \$16,494; in 1904 it was 18,989 short tons, valued at \$13,145, and in 1903 it was 34,211 short tons, valued at \$22,521.

SUMMARY. 21

Phosphate rock.—The total commercial production of phosphate rock reported to the Survey in 1906 amounted to 2,080,957 long tons, valued at \$8,579,437, as compared with 1,947,190 long tons, valued at \$6,763,403, in 1905; with 1,874,428 long tons, valued at \$6,580,875, in 1904, and with 1,581,576 long tons, valued at \$5,319,294, in 1903. The total quantity of phosphate rock reported as mined during 1906 was 2,001,394 long tons, as against 2,138,309 long tons mined in 1905 and 1,991,169 long tons mined in 1904.

Salt.—The salt product includes salt in the form of brine used in large quantities for the manufacture of soda ash, sodium bicarbonate, caustic soda, and other sodium salts. The domestic production of salt in 1906 amounted to 28,172,380 barrels of 280 pounds, valued at \$6,658,350, as compared with 25,966,122 barrels, valued at \$6,095,922, in 1905; with 22,030,002 barrels, valued at \$6,021,222, in 1904; with 18,968,089 barrels, valued at \$5,286,988, in 1903, and with 23,849,231

barrels, valued at \$5,668,636, in 1902.

Sulphur and pyrite.—The domestic production of sulphur in 1906 was 294,153 long tons, valued at \$5,096,678; the production of pyrite was 261,422 long tons, valued at \$931,305. The combined production in 1906 of sulphur and pyrite for the manufacture of sulphuric acid amounted to 555,575 long tons, valued at \$6,027,983, as compared with 434,677 long tons, valued at \$4,645,052, in 1905; with 334,373 long tons, valued at \$3,478,568, in 1904; with 233,127 long tons, valued at \$1,109,818, in 1903, and with 207,874 long tons, valued at \$947,089, in 1902.

#### PIGMENTS.

Barytes.—The production of crude barytes in 1906 was 50,231 short tons, valued at \$160,367, as compared with 48,235 short tons, valued at \$148,803, in 1905; with 65,727 short tons, valued at \$174,958, in 1904; with 50,397 short tons, valued at \$152,150, in 1903, and with 61,668 short tons, valued at \$203,154, in 1902.

Cobalt oxide.—There was no production of cobalt oxide reported in 1905 and 1906. In 1904 it was 22,000 pounds, valued at \$42,600; in 1903 it was 120,000 pounds, valued at \$228,000; in 1902 it was 3,730 pounds, valued at \$6,714. All the cobalt oxide was obtained as a by-product in smelting lead ores at Mine La Motte, Missouri,

Mineral paints.—The commercial production of mineral paints in 1906 amounted to 49,921 short tons, valued at \$521,729, as compared with 56,599 short tons, valued at \$724,933, in 1905; with 52,336 short tons, valued at \$493,434, in 1904; with 56,262 short tons, valued at \$500,922, in 1903; with 60,191 short tons, valued at \$745,937 in 1903

\$745,227, in 1902.

Zinc white.—The production of zinc white in 1906 amounted to 74,680 short tons, valued at \$5,999,375, as compared with 68,603 short tons, valued at \$5,520,240, in 1905; with 63,363 short tons, valued at \$4,808,482, in 1904; with 62,962 short tons, valued at \$4,801,718, in 1903, and with 52,645 short tons, valued at \$4,016,499, in 1902.

### MISCELLANEOUS.

Asbestos.—The asbestos commercially produced in the United States in 1906 was obtained chiefly from deposits in Georgia, Virginia, and Wyoming, with small quantities from Arizona, California,

and Massachusetts. The total commercial production was 1,695 short tons, valued at \$28,565, as against 3,109 short tons, valued at \$42,975, in 1905; against 1,480 short tons, valued at \$25,740, in 1904,

and 887 short tons, valued at \$16,760, in 1903.

Asphalt.—Under this title are included the various bitumens or hydrocarbons not discussed elsewhere under the heading "Petroleum." The commercial production in 1906 was 138,059 short tons, valued at \$1,290,340, as against 115,267 short tons, valued at \$758,153, in 1905; 108,572 short tons, valued at \$879,836, in 1904; 101,255 short tons, valued at \$1,005,446, in 1903, and 105,458 short tons, valued at \$765,048, in 1902.

Feldspar.—The production of feldspar in 1906 was 75,656 short tons, valued at \$401,531, as against 35,419 short tons, valued at \$226,157, in 1905; 45,188 short tons, valued at \$266,326, in 1904; 41,891 short tons, valued at \$256,733, in 1903, and 45,287 short tons

valued at \$250,424, in 1902.

Fibrous talc.—This variety of talc, or soapstone, occurs in but one locality in the United States—Gouverneur, St. Lawrence County, N. Y. It is used principally as makeweight in the manufacture of paper. In 1906 the production was 61,672 short tons, valued at \$557,200, as against 56,500 short tons, valued at \$445,000, in 1905; 64,005 short tons, valued at \$507,400, in 1904; 60,230 short tons, valued at \$421,600, in 1903, and 71,100 short tons, valued at \$615,350, in 1902.

Fuller's earth.—As reported to the Survey, the production of fuller's earth in 1906 was 32,040 short tons, valued at \$265,400, as against 25,178 short tons, valued at \$214,497, in 1905; 29,480 short tons, valued at \$168,500, in 1904, and 20,693 short tons, valued at \$190,277, in 1903. The imports in 1906 were valued at \$108,695, as against \$105,997 in 1905.

Glass sand.—The production of glass sand in 1906 was 1,089,430 short tons, valued at \$1,208,788, as against 1,060,334 short tons, valued at \$1,107,730, in 1905; 858,719 short tons, valued at \$796,492,

in 1904, and 823,044 short tons, valued at \$855,828, in 1903.

Graphite.—The commercial production of crystalline graphite during 1906 amounted to 5,887,982 pounds, valued at \$238,064, as compared with 6,036,567 pounds, valued at \$237,572, in 1905; with 5,681,177 pounds, valued at \$238,447, in 1904, and with 4,538,155 pounds, valued at \$154,170, in 1903. The production of amorphous graphite in 1906 was 16,853 short tons, valued at \$102,175, as compared with 21,953 short tons, valued at \$80,639, in 1905; with 16,927 short tons, valued at \$82,925, in 1904, and with 16,591 short tons, valued at \$71,384, in 1903. The production of artificial graphite in 1906 was 5,074,757 pounds, valued at \$337,204, the average price being 6.64 cents per pound, as compared with 4,591,550 pounds, valued at \$313,980, the average price being 6.83 cents per pound, in 1905; with 3,248,000 pounds, valued at \$217,790, the average price being 6.71 cents per pound, in 1904; with 2,620,000 pounds, valued at \$178,670, in 1903, when the average price was 6.82 cents per pound, and with 2,358,828 pounds, valued at \$110,700, in 1902, when the average price was 4.69 cents per pound.

Magnesite.—The production of magnesite in the United States continues to be limited to California. During the year 1906 the commercial production reported was 7,805 short tons, valued at \$23,415, as

SUMMARY. 23

compared with 3,933 short tons, valued at \$15,221, in 1905; with 2,850 short tons, valued at \$9,298, in 1904; and with 3,744 short tons,

valued at \$10,595, in 1903.

Mica.—The total production of mica in 1906 was 1,423,100 pounds of sheet mica, valued at \$252,248, and 1,489 short tons of scrap mica, valued at \$22,742, as against 924,875 pounds of sheet mica, valued at \$160,732, and 1,126 short tons of scrap mica, valued at \$17,856, in 1905; and 668,358 pounds of sheet mica, valued at \$109,462, and 1,096 short tons of scrap mica, valued at \$10,854, in 1904.

Mineral waters.—The total production of mineral waters in 1906 was 51,407,668 gallons, valued at \$8,559,650, as compared with 47,590,081 gallons, valued at \$6,811,611, in 1905; with 50,723,500 gallons, valued at \$7,198,450, in 1904; and with 51,242,757 gallons,

valued at \$9,041,078, in 1903.

Monazite and zircon.—The production of monazite is confined exclusively to North Carolina and South Carolina, about five-sixths being obtained from the former State. In 1906 the production was 847,275 pounds of concentrates, valued at \$152,560. In 1905 the production (including small quantities of zircon and columbite) amounted to 1,352,418 pounds, valued at \$163,908, as compared with 745,999 pounds (including small quantities of zircon, columbite, and gadolinite), valued at \$85,038, in 1904; with 865,000 pounds, valued at \$65,200 (including 3,000 pounds of zircon, valued at \$570), in 1903; and with 802,000 pounds of monazite, valued at \$64,160, in 1902.

Peat.—There was no commercial production of peat in 1906. Considerable experimental work has been done in the production of peat bricks for use as fuel under boilers, and in the practical tests of ma-

chine peat.

Potassium salts.—There was no production of potassium salts in the United States in 1906; the imports amounted to 226,859,750

pounds, valued at \$5,941,217.

Precious stones.—The value of the gems and precious stones found in the United States in 1906 was reported as \$208,000, as against \$326,350 in 1905, \$324,300 in 1904, \$307,900 in 1903, and \$328,450 in 1902. There has been a great advance in the lapidary industry in the United States since 1894. The cutting of our native gems has grown to the proportions of an industry.

Quartz (flint).—The production of flint in 1906 was 66,697 short tons, valued at \$243,012, as against 51,145 short tons, valued at \$104,109, in 1905; 52,270 short tons, valued at \$100,590, in 1904; 55,233 short tons, valued at \$156,947, in 1903; and 36,365 short tons,

valued at 144,209, in 1902.

Sand and gravel.—The production of sand for molding, building, engine, furnace, and other purposes, and of gravel, reported in 1906, was 31,842,572 short tons, valued at \$11,489,420, as against 22,144,633 short tons valued at \$10,115,915, in 1905; and 9,821,009 short tons, valued at \$4,951,607, in 1904.

Selenium.—There was a small production of selenium in 1906 in the

electrolytic refining of copper.

Talc and soapstone.—Exclusive of the production of fibrous talc from Gouverneur, N. Y., the production of talc and soapstone in 1906 amounted to 58,972 short tons, valued at \$874,356, as compared with 40,134 short tons, valued at \$637,062, in 1905; with 27,184 short tons,

valued at \$433,331, in 1904; with 26,671 short tons, valued at \$418,460, in 1903; and with 26,854 short tons, valued at \$525,157, in

Cadmium.—Cadmium is being produced by the Grasselli Chemical Company, of Cleveland, Ohio, and the product is shipped to Germany. It is noteworthy that cadmium is now exported from the United States rather than imported, as has heretofore been the case. No information is at hand as to the source of the ores nor as to the process used in reducing the metal.

### MINERAL PRODUCTS OF THE UNITED STATES IN 1905 AND 1906.

The two following sets of tables should be sharply discriminated. From the tabular statement headed "Mineral products of the United States in 1905 and 1906," including also the tables for the years 1880 to 1906, all unnecessary duplication has been excluded. The manufactured coke product, amounting in 1906 to 36,401,217 short tons and valued at \$91,608,034, is excluded, as the quantity and value of the coal used in its manufacture are included in the statistics of coal production. Similarly, white lead, red lead, sublimed lead, zinc lead, litharge, and orange mineral, whose average aggregate value for the last ten years has largely exceeded \$10,000,000, are not given in the table, the base from which they are made being included in the output of pig lead. Zinc white or zinc oxide, on the other hand, made directly from the ores and consequently not included in spelter production, is tabulated. The production of pig iron and its value are given in the table as the best means of presenting the statistics of the production of iron in the first marketable condition, the value of iron ores being excluded. Similarly, the value of the products of the clay industries is given as being the first marketable condition of the greater part of the clay produced, although the production and value of the clay mined and sold in the raw state by clay miners to manufacturers of clay are elsewhere shown separately, but are not included in the tabular statement, in order to avoid duplication.

In the second large tabular statement, however, under the heading "Output and value, by States and Territories, of mineral products of the United States in the calendar years 1905 and 1906," raw clay, iron ores, lead paints, and the coal products are included under the

respective producing States.

It will be seen that the two tabular statements differ materially. They both give the value of the mineral products in the years 1905 and 1906; but the first gives the net value of the mineral products of the whole country in their first marketable form and the second gives the value of these products and, in addition, the value of some of their raw materials or derivatives in their first marketable condition. The first table avoids duplication; the second does not.

The figures for gold and silver for 1905 and 1906 in the first table are the official figures agreed upon by the United States Geological

Survey and the Director of the Mint.

	Product.	190	5.
		Quantity.	Value.
	METALLIC.		
1 2	Pig iron, a spot value b. clong tons. Silver, commercial value d. troy ounces.	22,992,380 56,101,600	\$382,450,000 34,221,976
3 4	Gold, coining value e do.  Copper, value at New York City pounds.  Lead, / value at New York City short tons.  Zing value at New York City short tons.	4,265,742 901,907,843	88,180,700
- 5	Lead, value at New York Citypounds	901,907,843	139,795,716 28,690,000
6	Zinc, value at New York City short tons.  Zinc, value at New York City do Quicksilver, value at San Francisco. g flasks.  Aluminum value at Pittsburg.	203,849	24,054,182
. 7	Aluminum value at San Franciscog flasks	30,451 h 11,347,000	1,103,120
9	Aluminum, value at San Francisco glasks. Aluminum, value at Pittsburg. pounds. Antimony, value at San Francisco short tons. Nickel, j value at Philadelphia. pounds. Tin.	3 240	3,246,300 705,787
10 11	Nickel, J value at Philadelphiapounds		(k)
12	Tin. do. Platinum, value (crude) at New York City. troy ounces.		(1)
13			5,320
10	Total value of metallic products	************	702,453,101
	NONMETALLIC (SPOT VALUES).		
14	Bituminous coal <sup>m</sup>	315,062,785	334,658,294
16	Pennsylvania anthracite	69, 339, 152	141,879,000 41,562,855
17	Natural gas long tons. Petroleum n barrels n barrels	134,717,580	84, 157, 399
18 19			84,157,399 149,697,188
20	Cement	2 984 100	35,931,533 10,941,680
21 22	Sand-lime brick.	2,501,100	972,064
23	Stone		5,496,207
24			63,798,748
25 26	Crystalline quartz. do. Garnet for abrasive purposes. do. Grindstones. do. Infusories earth and tripoli	19,039	61,464 88,118
27	Grindstones	5,050	148,095
28			777,606 64,637
29 30	Millstones.		37,974
31	Oilstones, etc	1 507 998	37,974 244,546 35,210
32	Arsenious oxide pounds. Borax (crude) short tons. Bromine pounds. Fluorspar short tons. Gypsum	46.334	1,019,154
33 34	Brominepounds	1,192,758	178,914
35	Fluorspar short tons. Gypsum do.	57,385 1,043,202	362,488
36	Lithium minerals	79	3,029,227 1,412
37 38	Marls do. Phosphate rock long tons.	38,026	16, 494
39	PVIIIe	1,947,190 253,000	6,763,403
40	SUIDRUF	181,677	938,492 3,706,560
41 42	Salt. r barrels. Barytes (crude) short tons.	25,966,122	6,095,922
43	CODAIL OXIGE	48,235	148, 803 (k)
44	MIDERAL DAIDLES	56,599	724, 933
45 46	Zine white do. Asbestos. do.	68,603	5,520,240
47	ASDBAIL	3,109 115,267	42,975 758,153
48		48,129	240, 292
50	Feldspar short tone	99	375
51	Fibrous tale	35,419 56,500	226, 157 445, 000
52 53	Fuller's earthdo	25,178	214, 497
	Glass sand do Graphite (crystalline) do pounds	1,060,334	1,107,730
		6,036,567	318,211
55	Magnesitedo	21,953	15,221

a Production of iron ore—1897: 17,518,046 long tons; value at mines, \$18,953,221. 1898: 19,433,716 long tons; value at mines, \$22,060,887. 1899: 24,683,173 long tons; value at mines, \$34,999,077. 1900: 27,553,161 long tons; value at mines, \$66,590,504. 1901: 28,887,479 long tons; value at mines, \$49,256,245. 1902: 35,554,135 long tons; value at mines, \$65,412,950. 1903: 35,019,308 long tons; value at mines, \$66,528,415. 1902: 27,644,330 long tons; value at mines, \$43,186,741. 1905: 42,526,133 long tons; value at mines, \$75,165,604. 1906: 47,749,728 long tons; value at mines, \$100,597,106. Statistics for iron ore are collected by the Survey; statistics for pig iron are furnished by the American Iron and Steel Association. by "spot" value is meant value at the point of production.

\*\*C Long tons are tons of 2,240 avoirdupois pounds; short tons are tons of 2,000 avoirdupois pounds. d Average price per troy ounce in 1906 was 67 cents.

\*\*C Prior to 1905, coining value, \$20.6718 per troy ounce; in 1905, coining value, \$20.671834; in 1906, coining value, \$20.67183462523.

\*\*J The product from domestic ores only.

\*#G Of 76½ avoirdupois pounds net; of 75 avoirdupois pounds net since June, 1904.

\*\*A Consumption in 1904, 1905, and 1906.

\*\*Includes antimony smelted from imported ores and antimony contained in hard lead.

\*\*J Including nickel in copper-nickel alloy and in exported ore and matte.

190	1906. Increase (+) or decrease 1906.			Percentage of or decrease		
Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
25,307,191 56,517,900 4,565,333 917,805,682 350,153 199,694 26,238 \$14,910,000 1,766	\$505,700,000 38,256,400 94,373,800 177,595,888 39,917,442 24,362,668 958,634 4,262,286 602,949	$\begin{array}{c} +\ 2,314,811\\ +\ 416,300\\ +\ 299,591\\ +15,897,839\\ +\ 48,153\\ -\ 4,155\\ -\ 4,213\\ +\ 3,563,000\\ -\ 1,474 \end{array}$	+\$123,250,000 + 4,034,424 + 6,193,100 + 37,800,172 + 11,227,442 + 308,486 - 144,486 + 1,015,986 - 102,838	+ 10.07 + .74 + 7.02 + 1.76 + 15.94 - 2.04 - 13.84 + 31.40 - 45.49	+ 32, 23 + 11, 79 + 7, 02 + 27, 04 + 39, 13 + 1, 28 - 13, 10 + 31, 30 - 14, 57	1 2 3 4 5 6 7 8 9
1,439	35,600 45,189	+ 1,121	+ 39,869	+352.52	+749. 42	11 12
	886,110,856		+ 183,657,755		+ 26.15	13
342,874,867 63,645,010 126,493,936 51,000,445 3,197,754 1,160 24,082 4,650 8,099 1,474,000 58,173 1,283,250 40,796 1,540,585 38,099 1,540,585 19,104 2,080,957 261,422 294,153 28,172,380 50,231	381, 162, 115 131, 917, 694 46, 873, 932 92, 444, 735 161, 032, 722 55, 302, 277 12, 480, 653 1, 170, 005 5, 668, 346 66, 378, 794 44, 310 121, 671 157, 000 744, 894 72, 108 48, 590 268, 070 63, 460 1, 182, 410 165, 204 244, 025 3, 837, 975 7, 411 7, 341 8, 579, 437 931, 305 5, 096, 678 6, 658, 350 160, 367	+27,812,082 - 5,694,142 - 8,223,644 +10,898,137 + 213,654 - 966 + 5,043 - 400 - 2,878 - 33,386 + 11,839 + 40,492 - 16,589 + 497,383 + 497,383 + 18,922 + 133,767 + 8,422 + 112,476 + 2,206,258 + 1,2476 + 2,206,258 + 1,996	+ 46,503,821 - 9,961,306 + 5,311,077 + 8,287,336 + 11,335,534 + 19,370,744 + 1,538,973 + 197,941 + 2,580,046 - 17,154 + 33,553 + 8,905 - 32,712 + 7,471 + 10,616 + 23,524 + 163,256 - 13,710 - 118,463 + 808,748 + 509,915 + 1,816,034 - 7,187 + 1,390,118 + 562,428 + 11,390,118 + 562,428 + 11,390,118 + 562,428 + 11,390,118 + 562,428 + 11,504	+ 8.83 - 8.21 - 6.10 + 27.18 + 7.16 - 45.44 + 26.49 - 7.92 - 26.22 - 2.21 + 25.55 + 7.59 - 28.91 + 47.68 + 348.76 + 6.87 + 3.33 + 61.91 + 8.50 + 4.14	+ 13. 90 - 7. 02 + 12. 78 + 9. 85 + 7. 57 + 53. 91 + 14. 07 + 20. 36 + 3. 13 4. 4. 04 - 27. 91 + 38. 08 - 4. 21 + 11. 56 + 27. 96 + 9. 62 + 80. 23 + 16. 02 - 7. 66 - 32. 68 + 26. 70 + 424. 86 - 55. 49 + 26. 85 - 77 + 37. 50 + 9. 23 + 7. 77	14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 30 31 32 33 34 35 36 37 38 40 41 42
49,921 74,680 1,695 138,059 75,332 107 75,656 61,672 32,040 1,089,430 { 5,887,982 16,853 7,805	(k) 521,729 5,999,375 28,565 1,290,340 368,311 1,800 401,531 557,20C 265,400 1,208,788 238,064 102,175 23,415	- 6,678 + 6,077 - 1,414 + 22,792 + 27,203 + 85 + 40,237 + 5,172 + 6,862 + 29,996 - 148,585 - 5,100 + 3,872	- 203,204 + 479,135 - 14,410 + 532,187 + 128,019 + 1,425 + 175,374 + 112,200 + 50,903 + 101,058 } + 22,028 + 8,194	- 11. 80 + 8. 96 - 45. 48 + 19. 77 + 56. 52 + 386. 36 + 113. 60 + 9. 15 + 27. 25 + 2. 74 { - 2. 46 - 2. 32 + 98. 45	- 28.03 + 8.68 - 33.53 + 70.20 + 53.28 + 380.00 + 77.55 + 25.21 + 23.73 + 9.12 } + 6.92 + 53.83	43 44 45 46 47 48 49 50 51 52 53 54

\*Including nitrate of soda, carbonate of soda, sulphate of soda, and alum clays used by paper manufacturers; and bismuth, molybdenum, nickel and cobalt, tantalum, titanium, uranium, and vanadium, valued together at \$48,300.

'Nineteen short tons of high-grade concentrates shipped to England from South Carolina in 1903. In 1904 about 142 short tons of concentrates from South Carolina, South Dakota, and Alaska shipped to England. In 1905 no production. In 1906, 2,500 pounds of metallic tin, 55 short tons of concentrates from Alaska, and 14 short tons of concentrates from North Carolina and South Carolina.

\*\*Minetuding brown coal and lignite, and anthracite mined elsewhere than in Pennsylvania. Coke—1902: 25,401,730 short tons; value at ovens, \$63,339,167. 1903: 25,274,281 short tons; value at ovens, \$66,498,664. 1904: 23,661,106 short tons; value at ovens, \$64,144,941. 1905: 32,231,129 short tons; value at ovens, \$72,476,196. 1906: 36,401,217 short tons; value at ovens, \$91,608,034.

\*\*Off 28 gallons.

\*\*Value of clay mined and sold as unmanufactured clay. 1897: \$978,448. 1898: \$1.384,766. 1899: Census returns, \$1,645,328. 1900: \$1,840,377. 1901: \$2,576,932. 1902: \$2,061,072. 1903: \$2,594,042. 1904: \$2,320,162. 1905: \$2,768,006. 1906: \$3,245,256.

\*\*Poff 380 pounds net. Value is for net product exclusive of cost of packages.

\*\*Including metallic paint, ocher, umber, mortar colors, sienna, and ground slate.

# Mineral products of the United

Product.	1905.		
	Quantity.	Value.	
NONMETALLIC (SPOT VALUES)—continued.			
$6 \ \begin{cases} \text{Manganese ores} & \text{long tons.} \\ \text{Manganiferous iron ores} & \text{do} \end{cases}$	4,118	\$36,214	
Mica (sheet)	924,875 1,126 47,590,081 1,352,418	160,732 17,856 6,811,611 163,908 326,350	
Pumice stone	1,832 51,145	5,540 104,109	
Karle Sand, molding, building, etc., and gravel short tons. Tale and soapstone do Tungsten do Uranium and vanadium do	22,144,633 40,134 803 4	10,115,915 637,062 268,676 375	
Total value of nonmetallic mineral products  Total value of metallic products  Estimated value of mineral products unspecified a		921,075,619 702,453,101 400,000	
Grand total		1,623,928,720	

<sup>&</sup>lt;sup>c</sup> Including nitrate of soda, carbonate of soda, sulphate of soda, and alum clays used by paper manufacturers; and bismuth, molybdenum, nickel and cobalt, tantalum, titanium, uranium, and vanadium, valued together at \$48,300.

SUMMARY.

States in 1905 and 1906-Continued.

1	Percentage of increase (+) or decrease (-) in 1906.		Increase (+) or decrease (-) in 1906.			1906.		
	Value.	Quantity.	Value.		Quantity.	Value.	Quantity.	
	+143. 36 + 56. 94 + 27. 36 + 25. 66 - 6. 92 - 36. 26 +202. 35 +133. 42 + 13. 58 + 37. 25 + 29. 85	+ 68.07 + 53.87 + 32.24 + 8.02 + 565.94 + 30.41 + 43.79 + 46.94 + 15.57	\$51,918 91,516 4,886 1,748,039 11,348 118,350 11,210 138,903 1,373,505 237,294 80,191	25 13 13 13 13 13 13 13 13 13 13 13 13 13	+ 2,803 + 498,225 + 363 + 3,817,587 + 10,368 + 15,552 + 9,697,939 + 18,838 + 125	\$88,132 122,400 252,248 22,742 8,559,650 152,560 208,000 16,750 243,012 (a) 11,489,420 874,356 348,867 (a)	6,921 41,300 1,423,100 1,423,100 1,489 51,407,668 847,275 12,200 66,697 31,842,572 58,972 928	
	+ 10.33 + 26.15 - 50.00		95,131,090 183,657,755 200,000			1,016,206,709 886,110,856 200,000		
	+ 17, 15		278,588,845			1,902,517,565		

# Mineral products of the United States

	Product.	188	30.
	r rounct.	Quantity,	Value.
	METALLIC.		
3 4 5 6 7 8	Pig iron, value at Philadelphie long tons. Silver, commercial value troy ounces. Gold, coining value do Copper, value at New York City pounds. Lead, value at New York City short tons. Zinc, value at New York City do Quicksilver, value at San Francisco flasks. Nickel, value at Philadelphia pounds.	3,375,912 30,318,700 1,741,500 60,480,000 97,825 23,239 59,926 233,893	\$89,315,56 34,717,00 36,000,00 11,491,20 9,782,50 2,277,43 1,797,78 257,28
0	Aluminum, value at Pittsburg do Antimony, value at San Francisco short tons Platinum (crude) value at San Francisco troy ounces	50 100	10,00
2	Total value of metallic products		185,649,16
	NONMETALLIC (SPOT VALUES).		
4	Bituminous coal	38,242,641 25,580,189	53,443,71 42,196,67
6	Stone - barrels. Lime do do	26,286,123 28,000,000	42,196,67 18,356,05 24,183,23 19,000,00
18 19 20 21	Natural gas	2,072,943 5,961,060 211,377	1,852,70 4,829,56
2	ZIHC WHITESHOTE DORS	2,072,943 5,961,060 211,377 4,500,000 2,000,000 10,107 28,877 3,604	3,800,00 500,00 763,73
25 26 27 28	Potters' clay         do           Mineral paints         do           Borax         pounds           Gypsum         short tons	28,877 3,604 3,692,443 90,000	1,852,70 4,829,56 1,123,82 3,800,00 763,73 200,45 135,84 277,23 400,00 540,73
19	Grindstones	4.210	
31 32	Pyrite long tons. Soapstone short tons.	4,210 2,000 8,441	5,00 66,66
3 4 5	Manganese ores long tons. Asphalt short tons. Precious stones	5,761 444	86,41 4,44 100,00
6 7	Bromine. pounds. Corundum short tons.	404,690 1,044	114,73 29,28 80.00
9	Barytes (crude)		49,80
1	Oilstones, etc. apounds Marlsshort tons	420,000	8,00 500,0
3	Fliot	1,000,000 20,000 4,000	80,00
5	Chromic iron ore long tons.  Infusorial earth short tons.	2,288	27,80
7	Feldspar long tons. Mica pounds.	12,500	60,0
9	Cobalt oxide	20,000 4,000 2,288 1,833 12,500 81,669 7,251 1,000	27,80 45,60 60,00 127,85 24,00
1	Sulphur	CMW)	10,00 21,00
3	Asbestos. do. Rutile. pounds. Lithographic stone short tons.	150 100	4,3:
			179 070 3
56	Total value of nonmetallic mineral products		173,279,13 185,649,16 6,000,00
58	Grand total		364,928,29

 $<sup>\</sup>sigma$  Prior to 1889 quantity and value are for rough stone quarried; since 1890 they are for finished product.

for the calendar years 1880-1906.

1881.		188	2.	1883.	
Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
4, 144, 254 33, 257, 800 1, 678, 612 71, 680, 000 117, 085 26, 800 60, 851	\$87,029,334 37,657,500 34,700,000 12,175,600 11,240,160 2,680,000 1,764,679	4, 623, 323 36, 196, 900 1, 572, 187 91, 646, 232 132, 890 33, 765 52, 732	\$106, 336, 429 41, 105, 900 32, 500, 000 16, 038, 091 12, 624, 550 3, 646, 620 1, 487, 042 309, 777	4, 595, 510 35, 732, 800 1, 451, 250 117, 151, 795 143, 957 36, 872 46, 725 58, 800	\$91, 910, 200 39, 618, 400 30, 000, 000 18, 064, 807 12, 322, 719 3, 311, 106 1, 253, 632
265, 668	292, 235	52,732 281,616	12,000	83 60	52, 920 875 12, 000
100	400	200	600	200	600
	187, 549, 908	***************************************	214,061,009		196, 547, 259
48, 179, 475 28, 500, 016 27, 661, 238 30, 000, 000	60, 224, 344 64, 125, 036 20, 000, 000 25, 448, 339 20, 000, 000	60, 861, 190 31, 358, 264 30, 510, 830 31, 000, 000	76, 076, 487 70, 556, 094 21, 000, 000 24, 065, 988 21, 700, 000	68, 531, 500 34, 336, 469 23, 449, 633 32, 000, 000	82, 237, 800 77, 257, 055 20, 000, 000 25, 790, 252 19, 200, 000 475, 000
9 500 000	2,000,000 4,200,000	3,250,000 6,412,873 332,077	215,000 3,672,750 4,320,140 1,992,462	4, 190, 000 6, 192, 231 378, 380	475,000 4,293,500 4,211,042 2,270,280 1,907,136
6,200,000 266,734 6,000,000 3,700,000 10,000 28,000	1,980,259 4,100,000 700,000 700,000 200,000	3,850,000 5,000,000 10,000 33,600	2,310,000 800,000 700,000 240,000	3, 814, 273 7, 529, 423 12, 000 35, 840	1,119,603 840,000 250,000
6,000 4,046,000 85,000	700, 000 200, 000 100, 000 304, 461 350, 000 60, 000 60, 000 75, 000 73, 425	7,000 4,236,291 100,000	105,000 338,903 450,000 700,000 75,000 90,000 67,980 10,500 150,000 80,000 80,000 34,000	7,000 6,500,000 90,000	84,000 585,000 420,000 600,000
5,000 10,000 7,000 4,895	60,000 60,000 75,000 73,425 8,000	6,000 12,000 6,000 4,532	75,000 72,000 90,000 67,980	6,000 25,000 8,000 6,155 3,000	75,000 137,500 150,000 92,325 10,500
2,000 300,000 500	110,000 75,000 80,000	250,000 500	10,500 150,000 75,000 80,000	301, 100	207,050 72,264 100,000
20,000 400,000 500,000	80,000 30,000 150,000 8,580	20,000 425,000 600,000	80,000 34,000 200,000 10,000 540,000	27,000 575,000 600,000	108,000 46,000 150,000 10,000
1,000,000 25,000 4,000 2,000	500,000 100,000 16,000 30,000	1,080,000 25,000 4,000 2,500 1,000	20,000 50,000	972,000 25,000 4,000 3,000	150,000 10,000 486,000 100,000 20,000 60,000
1,000 14,000 100,000 8,280	10,000 70,000 250,000 25,000	14,000 100,000 11,653	8,000 70,000 250,000 32,046	1,000 14,100 114,000 1,096	5,000 71,112 285,000 2,795
1,000 600 200 200	10,000 21,000 7,000 700	2,000 600 1,200 500	24,000 21,000 36,000 1,800	2,000 1,000 1,000 550	24,000 27,000 30,000 2,000
50	1,000 206,783,144 187,549,908		231, 340, 150 214, 061, 009		243, 812, 214 196, 547, 259
	6,500,000		6, 500, 000		6,500,000

21650-м к 1906-3

# Mineral products of the United States for

		1884	
	Product.	Quantity.	Value.
2 3 4 5 6 7 8 9 10 11	METALLIC.  Pig iron, value at Philadelphia long tons. Silver, commercial value troy ounces. Gold, coining value do Copper, value at New York City pounds. Lead, value at New York City short tons. Zinc, value at New York City do Quicksilver, value at San Francisco flasks. Nickel, value at Philadelphia pounds. Aluminum, value at Pittsburg do Antimony, value at San Francisco short tons. Platinum (crude), value at San Francisco troy ounces.	4, 097, 868 37, 743, 800 1, 489, 950 145, 221, 934 139, 897 38, 544 31, 913 64, 550 60 150	\$73, 761, 624 41, 921, 300 30, 800, 000 17, 789, 687 10, 537, 042 3, 422, 707 936, 327 48, 412 1, 350 12, 000 450
12	Total value of metallic products		179, 230, 899
14 15 16 17	NONMETALLIC (SPOT VALUES).  Bituminous eoal	37,000,000	77, 417, 066 66, 351, 512 19, 000, 000 20, 595, 966 18, 500, 000 1, 460, 000
19 20 21 22 23 24 25 26 27 28	Brick clay Clay (all other than brick) short tons. Cement barrels. Salt do. Phosphate rock long tons. Limestone for iron flux do. Mineral waters gallons sold. Zine white short tons. Mineral paints do. Borax pounds.	6,514,937 431,779 3,401,930 10,215,328 13,000 7,000 7,000,000	270,000 3,720,000 4,197,734 2,374,784 1,700,965 1,459,143 910,000 84,000 490,000 390,000
30 31 32 33 34 35 36 37 38	Grindstones         short tons.           Fibrous tale         short tons.           Pyrite         long tons.           Soapstone         short tons.           Manganese ores         long tons.           Asphalt         short tons.           Precious stones         pounds.           Bromine         pounds.           Corundum         short tons.           Barytes (crude)         do.	10,000 35,000 10,000 10,180 3,000 281,100 600	570,000 110,000 175,000 200,000 122,160 10,500 222,975 67,464 108,000 100,000
40 41 42 43 44 45 46 47 48 49	Bayyes         Dounds           Graphite         pounds           Millstones	800,000 875,000 30,000 4,000 2,000 1,000 10,900	150,000 12,000 437,500 120,000 20,000 35,000 55,112 388,525 5,100 20,000 12,000 30,000
54 55 56 57 58	Rutile		2,000 221,879,506 179,230,899 5,000,000
59	Grand total		406, 110, 405

 $<sup>\</sup>sigma$  Prior to 1889 quantity and value are for rough stone quarried; since 1890 they are for finished product.

SUMMARY.

the calendar years 1880-1906—Continued.

188	5.	188	6.	188	
Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
4, 044, 425 39, 909, 400 1, 538, 373 170, 962, 607 129, 412 40, 688 32, 073 277, 904 283 50	\$64,712,400 42,503,500 31,801,000 18,292,999 10,469,431 3,539,856 979,189 179,975 2,550 10,000	5, 683, 329 39, 694, 000 1, 686, 788 161, 235, 381 130, 629 42, 641 29, 981 214, 992 3, 000 35	\$95, 195, 760 30, 482, 400 34, 869, 000 16, 527, 651 12, 200, 749 3, 752, 408 1, 060, 000 127, 157 27, 000 7, 000	6, 417, 148 41, 721, 600 1, 603, 049 185, 227, 331 145, 700 50, 340 33, 825 205, 566 18, 000 75	\$121, 925, 800 40, 887, 200 33, 136, 000 21, 115, 916 13, 113, 000 4, 782, 300 1, 429, 000 133, 200 59, 000 1, 838
250	172, 491, 087		203, 249, 225		236, 598, 254
64, 840, 668 34, 228, 548 21, 847, 205 40, 000, 000	82, 347, 648 76, 671, 948 19, 000, 000 19, 198, 243 20, 000, 000 4, 857, 200	73, 707, 957 34, 853, 077 28, 064, 841	78, 481, 056 76, 119, 120 19, 000, 000 19, 996, 313	87, 887, 360 37, 578, 747 28, 278, 866	98, 004, 656 84, 552, 181 25, 000, 000 18, 877, 094 15, 817, 500
40, 320 4, 150, 000 7, 038, 653 437, 856 3, 356, 956 9, 148, 401	275, 000 3, 492, 500 4, 825, 345 2, 846, 064	44,800 4,500,000 7,707,081 430,549 4,717,163 8,950,317 18,000 18,800 9,778,290 95,250	6, 200, 000 325, 000 3, 990, 000 4, 736, 585 1, 872, 936 2, 830, 297 1, 284, 070	48, 160 6, 692, 744 7, 831, 962 480, 558 5, 377, 000 8, 259, 609	7,000,000 340,000 5,674,377 4,993,846 1,836,818 3,226,200 1,261,463 1,440,000
15,000 3,950 8,000,000 90,405 10,000 49,000	1, 678, 478 1, 312, 845 1, 312, 845 1, 050, 000 43, 575 480, 000 405, 000 500, 000 110, 000 220, 500	18, 800 18, 800 9, 778, 290 95, 250 12, 000 55, 000	1, 440, 000 1315, 000 488, 915 428, 625 250, 000 125, 000 220, 000 225, 000 277, 636 14, 000 119, 556 141, 356 141, 350 116, 190 50, 000 33, 242 140, 000 120, 000 220, 000 220, 000 33, 000	18, 000 22, 000 11, 000, 000 95, 000 15, 000 52, 000	330, 000 550, 000 425, 000 224, 400 160, 000 210, 000
10,000 23,258 3,000 310,000 600	110, 000 220, 500 200, 000 190, 281 10, 500 209, 900 89, 900 108, 000 75, 000 26, 231 100, 000 437, 500 120, 000 22, 500 40, 000	12, 000 55, 000 12, 000 30, 193 3, 500 428, 334 645	225,000 277,636 14,000 119,056 141,350 116,190	12,000 34,524 4,000 199,087 600	225, 000 333, 844 16, 000 163, 600 61, 717 108, 000
15,000 327,883 1,000,000 875,000 30,000	75,000 26,231 100,000 15,000 437,500 120,000	10,000 415,525 1,160,000 800,000 30,000	50, 000 33, 242 140, 000 15, 000 400, 000 120, 000	15,000 416,000 1,200,000 600,000 32,000	75, 000 34, 000 100, 000 16, 000 300, 000 128, 000
5,000 2,700 1,000 13,600 92,000 68,723	22, 500 40, 000 5, 000 68, 000 161, 000 65, 373	1,160,000 800,000 30,000 5,000 2,000 1,200 14,900 40,000 35,000	22, 000 30, 000 6, 000 74, 500 70, 000 36, 878	1, 200, 000 600, 000 32, 000 5, 000 3, 000 10, 200 70, 000 18, 340	20,000 40,000 15,000 61,200 142,250 18,774
1,975 715 300 600	24, 687 17, 875 9, 000 2, 000	2,500 200 600	75, 000 6, 000 2, 000	3,000 150 1,000	100,000 4,500 3,000
	241, 312, 093 172, 491, 087 5, 000, 000		230, 088, 769 203, 249, 225 800, 000		270, 989, 420 236, 598, 254 800, 000
-	418, 803, 180		434, 137, 994		508, 387 674

# Mineral products of the United States for

	Destroit	1	1888.		
	Product.	Quantity.	Value.		
	METALLIC.				
1 Pig iron, value	e at Philadelphialong ton	s 6,489,738	\$107,000,00		
			43, 045, 10		
3 Gold, coining	valuedo.	1,604,478	33, 167, 50		
1 Copper, value	at New York Citypound	s 231, 270, 622	33, 833, 9,		
Lead, value at	New York Cityshort ton	S 151, 919	13, 399, 25		
Quicksilver, v	New York City	55, 903	5, 500, 83 1, 413, 12		
Aluminum, va	due at Pittsburg nound	s 19,000	65,00		
Antimony, va	lue at San Franciscoshort ton	s 100	20, 00		
Antimony, va Nickel, value	at Philadelphiapound	s 204, 328	127, 6		
Platinum (eru	do.				
	reial value         troy ounce           value         do           at New York City         pound           New York City         short ton           New York City         do           alue at San Francisco         flask           lue at Pittsburg         pound           lue at San Francisco         short ton           at Philadelphia         pound           do         do           dde), value at San Francisco         troy ounce		2,00		
Total va	due of metallic products	***	237, 574, 45		
	NONMETALLIC (SPOT VALUES).				
Bituminous co Pennsylvania	oalshort ton	s 102, 039, 838	101, 860, 53		
Pennsylvania	anthracitelong ton	s 41,624,611	89,020,4		
Stone	ha and	07 010 00	25, 500, 0		
Natural gas	barrel	8 27,612,025	17, 947, 6 22, 629, 8		
Brick clay	***************************************		7,500,0		
Clay (all other	r than brick)	s 41,160	300,0		
Cement	barrel	s 6,503,295	5,021,1		
Mineral water	sgalions sol	0 9,578,648	1,679,3		
Phosphate roo	eklong ton	8 448, 567	2,018,5		
Limostone for	iron flux long ton	s 8,055,881 s 5,438,000	4,374,2 2,719,0		
Zine white	iron flux long ton short ton	8 20,000	1,600.0		
Gynsum	do	110,000	550, 0		
Borax	pound sshort ton	s 7,589,000	455, 3 405, 0		
Mineral paint	sshort ton	s 26,500	405, 0		
Grindstones.	short ton	20,000	281, 8 210, 0		
Asphalt	do	s 20,000 53,800	331 5		
Soapstone	do.	53, 800 15, 000	250, 0		
Precious stone	08		139, 8		
Pyrite	Short ton   do   do   do   do   do   do   do	s 54, 331	331, 5 250, 0 139, 8 167, 6 91, 6		
Corundum	short ton	589	91, 6		
Mice Constones, etc.	apound	s 1,500,000	18, 0 70, 0		
Barvtes (erud	(a) short ton	48, 000 s. 20, 000	110, 0		
Bromine	pound short ton	8 307, 386	95, 2		
Fluorspar	short ton	s 6,000	30,0		
Feldspar	long ton	s 8,700	50,0		
Manganese or	esdo.	29, 198 30, 000	279, 5 127, 5		
Graphite.	Dound	s 400,000	33.0		
Bauxite	do. pound long ton short ton	8			
Sulphur	short ton th do	8			
Marls		300,000	150,0		
Milletones	tudo.	1,500	7, 5 81, 0		
Chromic iron	orelong ton	s. 1,500	20, 0		
Cobalt oxide.	pound	8 8, 491	15, 7		
Magnesite	short tor	8			
Asbestos	do.	100	3,0		
Ozocerite (ref	ore long tor	s 1,000 43,500	3, 0		
	alue of nonmetallic mineral products		286, 150, 1		
Total va	alue of metallic products		237, 574, 4		
Estimat	alue of metallic productsed value of mineral products unspecified		900,0		
		-			
Grand t	otal		524, 624, 5		

 $<sup>{\</sup>it a}\ {\rm Prior}\ to\ 1889\ quantity\ and\ value\ are\ for\ rough\ stone\ quarried;\ since\ 1890\ they\ are\ for\ finished\ product.$ 

SUMMARY.

the calendar years 1880-1906-Continued.

•	1891	10.	189	•	1889
Value.	Quantity.	Value.	Quantity.	Value.	Quantity.
\$128, 387, 985 57, 630, 000 33, 175, 000 38, 455, 300 15, 534, 198 8, 033, 700 1, 036, 386 1, 00, 000 217, 957 71, 099 25, 058	8,279,870 58,330,000 1,604,840 295,812,076 178,554 80,873 22,904 150,000	\$151, 200, 410 57, 242, 100 32, 845, 000 30, 848, 797 12, 668, 166 6, 266, 407	9, 202, 703 54, 516, 300 1, 588, 877 265, 115, 133 143, 630	\$120,000,000	7, 603, 642 50, 094, 500
57,030,000	1 604 840	07, 242, 100	1 500 077	46, \$38, 400 32, 967, 000 26, 907, 809	1 504 775
99 455 900	205 212 078	20, 040, 000	965 115 122	26 007 800	1, 594, 775 231, 246, 214
15 594 100	179 554	19 668 166	143 630	12 704 925	156, 397
8 033 700	80 872	6 266 407	63 683	13, 794, 235 5, 791, 824	58, 860
1 036 386	22 004	1, 203, 615	63, 683 22, 926	1, 190, 500	26, 484
100,000	150,000	61, 281	61, 281	97, 335	47, 468
217, 957	1,289	61, 281 177, 508	938	28,000	115
71,099	118, 498	134, 093	223, 488	151, 598	252, 663
	125, 289 100				
500	100	2,500	600	2,000	500
282, 617, 183		292, 649, 877		247, 768, 701	
117, 188, 400	117, 901, 237	110, 420, 801 66, 383, 772 47, 000, 000	111, 320, 016 41, 489, 858	94, 504, 745	95, 685, 543
73, 944, 735	45, 236, 992	47,000,000	41, 489, 858	65, 879, 514 42, 809, 706	40, 714, 721
47, 294, 746 30, 526, 553	54 901 000	35 365 105	45 800 870	26 962 240	35, 163, 513
15 500 084	54, 291, 980	35, 365, 105 18, 792, 725	45, 822, 672	26, 963, 340 21, 097, 099	50, 100, 015
9,000,000		8, 500, 000		8,000,000	
900,000	448,000 8,222,792 18,392,732 587,988 9,987,945 5,000,000	756,000	392,000 8,000,000 13,907,418 510,499 8,776,991 5,521,622	635, 578	329,665
6, 680, 951	8, 222, 792	6 000 000	8,000,000	635, 578 5, 000, 000	7,000,000
2,996,259 3,651,150	18, 392, 732	2,600,750	13, 907, 418	1,748,458	7,000,000 12,780,471 550,245
3, 651, 150	587, 988	3, 213, 795	510, 499	2, 937, 776	550, 245
4, 716, 121	9, 987, 945	4, 752, 286	8,776,991	4, 195, 412	8,005,565
2,300,000	5,000,000	2,760,811	5, 521, 622	3, 159, 000	6, 318, 000
4,716,121 2,300,000 1,600,000	23, 700 208, 126 13, 380, 000 49, 652	2, 600, 750 3, 213, 795 4, 752, 286 2, 760, 811 1, 600, 000	700.005	1, 748, 458 2, 937, 776 4, 195, 412 3, 159, 000 1, 357, 600 1, 357, 600 483, 766 439, 587 244, 170 171, 537 231, 708 188, 807 202, 119 105, 565 32, 980 50, 000	16, 970 267, 769 8, 000, 000
020, 001	208, 126	574, 523 617, 500- 681, 992 450, 000 389, 196 190, 416 252, 309 118, 833 273, 745 89, 395 69, 909 75, 000 86, 505 104, 719 55, 328 45, 200 219, 050	182, 995 9, 500, 000 47, 732	764, 118	207,709
869,700	10, 000, 000	691 009	47 739	483 766	34, 307
678, 478 476, 113	49,002	450,000	41,102	439, 587	01,001
403 068	53 054	389 196	41 354	244 170	23.746
242, 264	45, 054	190, 416	40, 841	171, 537	51,735
243, 981	53, 054 45, 054 16, 514	252, 309	41, 354 40, 841 13, 670	231,708	23,746 51,735 12,715
476, 113 493, 068 242, 264 243, 981 235, 300 338, 880 90, 230 150, 000 118, 363 54, 880 78, 330 50, 000 239, 129		118, 833		188, 807	
338, 880	106, 536	273, 745	99,854 1,970	202, 119	93, 705
90, 230	2, 265	89, 395	1,970	105, 565	2, 245 5, 982, 000
150,000	1, 375, 000	69,909	***************	32, 980	5, 982, 000
100,000	75,000	75,000	60,000	106, 313	49, 500 19, 161
118, 363	31,009	80, 505	21,911	125, 667	418, 891
79 220	10 044	55 200	8 250	45 835	9,500
50,000	10,044	45 200	60,000 21,911 387,847 8,250 8,000	45, 835 39, 370	6,970
239, 129	106, 536 2, 265 1, 375, 000 75, 000 31, 069 343, 000 10, 044 10, 000 23, 416	219, 050	25, 684	240 550	24, 197
60,000	23, 416 15, 000	57, 400	13,000	89, 730	21, 113
110.000		57, 400 77, 500 6, 012		89, 730 72, 662 2, 366 7, 850	
11, 675 39, 600 67, 500	3, 593	6,012	1,844	2, 366	728
39,600	1,200 135,000			7,850	1,150
67,500	135,000	69 880	153, 620	55, 450	139, 522
21,988		50, 240	2,532	23, 372	3, 466
16,587	1 270	23, 720 53, 985	3,599	35, 155 30, 000	2,000
20,580 18,000	1,372 7,200	16, 291	6,788	31, 092	13, 955
4.300	439	10, 401	0,100	01,002	20,000
4, 390 3, 390	66	4, 560	71	1,800	30
800	300	1,000	400	3,000	1,000
7,000	50,000	26, 250	350,000	- 2, 500	50,000
321, 767, 846		312, 826, 503		282, 6°3, 812 247, 768, 701	
282, 617, 183	***************************************	292, 649, 877		1,000,000	
1,000,000	***************************************	1,000,000		1,000,000	

# Mineral products of the United States for

	Deschiot	1	892.
	Product.	Quantity.	Value.
	METALLIC.		
1 2 3 4 5 6 7 8 9 10 11 12	Pig iron, spot value. long tons. Silver, commercial value troy ounces. Gold, coining value do Copper, value at New York City pounds. Lead, value at New York City short tons. Zinc, value at New York City do Quicksilver, value at San Francisco flasks. Aluminum, value at Pittsburg pounds. Antimony, value at San Francisco short tons. Nickel, value at Philadelphia pounds. Tin do Platinum, value (crude) at San Francisco troy ounces.	9, 157, 000 63, 500, 000 1, 597, 098 352, 971, 744 173, 654 87, 260 27, 993 259, 885 1, 790 92, 252 162, 000 80	\$131, 161, 039 55, 662, 500 33, 015, 000 37, 977, 142 13, 892, 320 8, 027, 920 1, 245, 689 172, 824 276, 416 50, 739 32, 400 550
13	Total value of metallic products		281,514,539
	NONMETALLIC (SPOT VALUES).		
14 15 16	Bituminous coal	126, 856, 567 46, 850, 450	125, 124, 381 82, 442, 000 14, 870, 714 26, 034, 196
17 18	Petroleum barrels	50, 509, 136	26, 034, 196 9, 000, 000
19 20	Cement. barrels.	8,758,621	7, 152, 750 48, 706, 625
21 22	Natural gas. Petroleum barrels. Brick clay Cement barrels. Stone. Corundum and emery short tons. Crystalline quartz do Garnet for abrasive purposes do Grindstones. Infusorial earth and tripoli short tons. Millstones Oilstones, etc	1,771	181,300
23 24	Garnet for abrasive purposesdo		272,244
25	Infusorial earth and tripoli short tons.		43,655
26	Millstones		23, 417
27	Oilstones, etc	13,500,000	146,730
28 29	Boraxpounds  Bromine do	379, 480	900,000 64,502
30	Bromine	379, 480 12, 250 256, 259 125, 000	64,502 89,000 695,492 65,000
31 32	Gypsumdo	256, 259	695, 492
33	Phosphate rock long tons	681,571	3,296,227
34			305, 191
35 36	Salt barrels Sulphur short tons Barytes (crude) do Cobalt oxide pounds Mineral paints short tons.	11,698,890	5,654,915
37	Rarvies (erude)	2,688 32,108 7,869 51,704	80,640
38	Cobalt oxidepounds.	7,869	130,025 15,738 767,766 2,200,000
39	Mineral paintsshort tons	51,704	767,766
40 41	Zinc white do Asbestos do	21,000	2,200,000
42	Asphalt do	87,680	6,416 445,375
43	Bauxitelong tons	10,518	24 192
44 45	Asphalt   do	1,500 470,400	25,000
46	Feldspar do	16 800	75,000
47	Fibrous taic	41.920	25,000 1,000,000 75,000 472,485 80,000
48	Flintdo	22,400	80,000
49 50	Fuller's earthdo		104,000
51	Graphite pounds.  Limestone for iron flux long tons.  Magnesite short tons.  Manganese ores long tons.  Mica pounds.  Mineral waters gallons sold.	5, 172, 114	3 620 480
52	Magnesiteshort tons	5,172,114 1,004 13,613 75,000 21,876,604	10,040 129,586 100,000 4,905,970
53 54	Manganese oreslong tons	13,613	129,586
55	Mineral waters gallons sold	21.876.604	4,905,970
56	Monazitepounds		
57 58	Ozocerite (refined)	60,000	8,000 312,050
59 60	Punice stoneshort tons	***************************************	300
61	Monazite. pounds. Ozocerite (refined)do. Precious stones	23,908	437, 449
62	Total value of nonmetallic mineral products		340,028,842
63 64	Total value of metallic products.  Estimated value of mineral products unspecified		281, 514, 539 1, 000, 000
65	Grand total		622,543,381

 $<sup>\</sup>it a$  Including copper made from imported pyrites.

### SUMMARY.

the calendar years 1880-1906—Continued.

189	93.	189	04.	189	5.
Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
7,124,502 60,000,000 1,739,323 339,785,972 163,982 78,832 30,164 339,629 1,503 49,399	\$84,810,426 46,800,000 35,955,000 32,054,601 11,839,590 6,306,560 1,108,527 266,903 270,540 22,197	6,657,388 49,500,000 1,910,803 364,866,808 159,331 75,328 30,416 550,000 1,387 9,616	\$65,007,247 31,422,100 39,500,142 9,942,254 5,288,026 934,000 316,250 249,706 3,269	9,446,308 55,727,000 2,254,760 a 385,913,404 170,000 89,686 36,104 920,000 2,013 10,302	\$105,198,550 36,445,500 46,610,000 38,012,470 11,220,000 6,278,020 1,337,131 464,600 304,169 3,091
8,938 75	1,788 517	100	600	150	900
	219, 436, 649		185,804,594		245,874,431
128, 385, 231 48, 185, 306 48, 412, 666 8,002, 467 1,713 8,699,000 348, 399	122,751,618 85,687,078 14,346,250 28,932,326 9,000,000 6,262,841 33,885,573 142,325 338,787 22,582 16,645 135,173 652,425 104,520	118,820,405 46,358,144 49,344,516 8,362,245 1,495 6,024 2,584 14,680,130 379,444	107, 653, 501 78, 488, 663 13, 954, 400 35, 522, 995 64, 655, 388 5, 030, 081 36, 534, 788 95, 936 18, 054 223, 214 11, 718 413, 887 136, 873 974, 445 102, 450	135, 118, 193 51, 785, 122 52, 892, 276 8, 731, 401 2, 102 9, 000 3, 325 4, 954 11, 918, 000 517, 420	115,779,771 82,019,272 13,006,650 57,632,296 66,409,806 5,482,254 33,319,131 106,256 27,000 95,050 205,768 20,514 22,542 155,881 595,900 134,343
12, 400 253, 615 75, 000 941, 368 75, 777 11, 816, 772 1, 200 28, 970 8, 422 37, 724 24, 059 47, 779 9, 079 1, 450 448, 000	84,000 696,615 40,000 4,1:6,070 256,552 4,054,668 42,000 88,506 10,346 530,384 1,804,420 2,500 372,232 29,507 21,750	14,680,130 379,444 7,500 239,312 75,000 996,949 105,940 12,967,417 23,335 6,763 41,926 19,987 325 60,570 11,066 3,680	974, 443 102, 450 47, 500 761, 719 40, 000 3, 479, 547 363, 134 4, 739, 285 20, 000 86, 983 10, 145 498, 993 1, 399, 990 4, 463 353, 400 35, 818 53, 231	285,503 60,000 1,038,551 99,549 13,669,649 1,800 21,529 14,458 50,695 20,710 795 68,163 17,069 1,740	134, 343 24,000 797, 447 30,000 3,606,094 322, 845 4,423,084 42,000 68,321 20,675 621,552 1,449,700 13,525 348,281 44,000 16,795
20,578 35,861 33,231	68,307 403,436 63,792	19,264 39,906 42,560	167,000 435,060 319,200	8,523 39,240 13,747 6,900	30,000 370,897 21,038
843,103 3,958,055 704 7,718 66,971 23,544,495 130,000	63, 232 2,374, 833 7, 040 66, 614 88, 929 4, 246, 734 7, 600	918,000 3,698,550 1,440 6,308 21,569,608 546,855	64,010 1,849,275 10,240 53,635 52,388 3,741,846 36,193	5,247,949 2,220 9,547 21,463,543 1,573,000	41,400 52,582 2,623,974 17,000 71,769 55,831 4,254,237 137,150
	264,041		132,250		113,621
21,071	255,067	23,144	450 401,325	100 21,495	350 266,495
	323,257,318 219,436,649 1,000,000		362,570,173 185,804,594 1,000,000		393,897,097 245,874,431 1,000,000
	543,693,967		549,374,767		640,771,528

b Clay products.

# Mineral products of the United States for

	Desderat	18	96.
	Product.	Quantity.	Value.
	METALLIC.		
1 P	ig iron, spot valuelong tons	8,623,127	\$90, 250, 000
2   Si	lver commercial value troy ounces	58 834 800	39, 654, 600
3 G	old, coining value do	2,568,132	53 088 000
4 C	opper, value at New York City pounds	460, 061, 430	49, 456, 600
5 L	old, coining value	460,061,430 188,000	10, 528, 00
5 L	inc, value at New York Citydo	81, 499	6, 519, 920
7 Q	uicksilver, value at San Francisco	81, 499 30, 765	1, 075, 44
9   A	numinum, value at Pittspurg Doungs	1.300.000	520,00
9 A	ntimony, value at San Francisco short tons. ickel, value at Philadelphia pounds.	2,478	347, 53
0 N	ickel, value at Philadelphiapounds	17,170	4, 46
1 T	in	************	************
2 P.			94
3	Total value of metallic products		251, 445, 519
	NONMETALLIC (SPOT VALUES).		
4 B	ituminous coalshort tons	137,640,276	114, 891, 518
5 P	ennsylvania anthracitelong tons	48, 523, 287	114, 891, 51 81, 748, 65
KIN	atural gas		13, 002, 51;
7 P	etroleum barrels. lay p_oducts.	60,960,361	58, 518, 70
8 C	lay p.oducts	0 810 480	63, 110, 40
9 C	ima barrelsbarrels	9,513,473	6, 473, 213
1 SI	ement. barrels.ime. late.		6, 327, 90 2, 746, 20 23, 965, 22 113, 24
2 8	tone		2, 740, 20
3 C	orundum and emery short tons	9 190	113 24
4 C	orundum and emery	6,000	18,00
5 G	arnet for abrasive purposes do	2,686	68, 87
0 G	rindstones		326, 82
7   In	nfusorial earth and tripoli short tons	3 846	26, 79
M O	HIISTORES		22, 56
29 0	ulstones, etc		26, 79: 22, 56' 127, 09:
30 B	oraxpounds	13,508,000	675, 400
31 B	romine	546,580	144, 50
32   F 33   G	luorsparshort tons	6,500	52,000
34 M	ypsumdo	224, 254	573, 34 30, 00
35 P	farls do	60,000	30,000
36 P	yritedo	930,779 115,483	2, 803, 37, 320, 16
	altbarrels.	13, 850, 726	4, 040, 83
88 S	ulphurshort tons	5,260	87,20
39 B	sarytes (crude)	17,068	46, 51
10   C	obalt oxidepounds	10,700	15, 30
41 M	fineral paintsshort tons	43,894	15, 30 459, 08
12 Z	inc whitedo	20,000	1, 400, 00
43 A	sbestosdo	504	6, 10
14 A	sphaltdo	80,503	577, 56
45 B	auxitelong tons	18,364	47,33
	hromic iron ore	786	6,66
	Throus taledo	10, 203 46, 089	35, 20
19 F	'uller's earthdo	9,872	399, 44 59, 36
50 G	'uller's earth	535, 858	1
T   C	raphite (amorphous)short tons	760	48, 46
52 M	lagnesitedodo	1,500	11,00
3 M	langanese oreslong tons	10,088	90,72
4 M	lica (sheet) nounds	40 156	65, 44
5 M	lica (scrap)	222	1,75
66 M	Ineral watersgallons soldgallons sold	25, 795, 312	4, 136, 19
	Ionazitepounds zocerite (refined)do	30,000	1,50
59 P	recious stones		07 95
0 P	rumice stone short tone		97, 85
1 0	Duartz (flint)	19 458	24, 22
82 1 K	nounds	100	35
3 S	oapstoneshort tons	22,183	354, 06
14	Total value of nonmetallic mineral products		388, 098, 70
65	Total value of metallic products Estimated value of mineral products unspecified	***********	251, 445, 51
66	Estimated value of mineral products unspecified		1,000,00
	Grand total		640, 544, 22
37			

SUMMARY.

the calendar years 1880-1906—Continued.

9, 652, 680 53, 860, 000 2, 774, 935 494, 078, 274 212, 000 99, 980 26, 648 4, 000, 000 3, 061 23, 707 150	119, 595, 224 79, 301, 954 13, 826, 422 40, 874, 072 62, 359, 991 8, 178, 283	Quantity.  11, 773, 934 54, 438, 000 3, 118, 398 526, 512, 987 222, 000 115, 399 31, 092 5, 200, 000 3, 238 11, 145 225  166, 593, 623 47, 663, 076 55, 364, 233	Value.  \$116, 557, 000 32, 118, 400 64, 463, 000 61, 865, 276 16, 650, 000 10, 385, 910 1, 188, 627 1, 716, 000 532, 101 3, 956  1, 913 305, 482, 183	Quantity.  13, 620, 703 54, 764, 500 3, 437, 210 568, 666, 921 210, 500 129, 051 30, 454 6, 500, 000 2, 861 22, 541 300	\$245, 172, 654 32, 858, 700 71, 053, 400 101, 222, 712 18, 945, 000 14, 840, 865 1, 462, 745 1, 716, 000 559, 189 8, 566 1, 800 487, 831, 631
53, 860, 000 2, 774, 935 494, 078, 274 212, 000 99, 980 26, 648 4, 000, 000 3, 061 23, 707 150 247, 617, 519 46, 974, 714	32,316,000 57,363,000 54,080,180 14,885,728 8,498,300 993,445 1,500,000 442,300 7,823 900 265,209,975 119,595,224 79,301,954 13,826,422 40,874,072 62,359,991 8,178,283	54, 438, 000 3, 118, 398 526, 512, 987 222, 000 115, 399 31, 092 5, 200, 000 3, 238 11, 145 225	32, 118, 400 64, 463, 000 61, 865, 276 16, 650, 000 10, 385, 910 1,188, 627 1,716, 000 532, 101 3, 956 1, 913 305, 482, 183	54, 764, 500 3, 437, 210 568, 666, 921 210, 500 129, 051 30, 454 6, 500, 000 2, 861 22, 541 300	32, 888, 700 71, 053, 400 101, 222, 712 18, 945, 000 14, 840, 865 1, 452, 745 1, 716, 000 559, 189 8, 566 1, 800 487, 831, 631
147, 617, 519 46, 974, 714 60, 475, 516	265, 209, 975 119, 595, 224 79, 301, 954 13, 826, 422 40, 874, 072 62, 359, 991 8, 178, 283	166, 593, 623 47, 663, 076	305, 482, 183 132, 608, 713	193, 323, 187	487, 831, 631
147, 617, 519 46, 974, 714 60, 475, 516	119, 595, 224 79, 301, 954 13, 826, 422 40, 874, 072 62, 359, 991 8, 178, 283	166, 593, 623 47, 663, 076	132, 608, 713	193, 323, 187	
46, 974, 714 60, 475, 516	79, 301, 954 13, 826, 422 40, 874, 072 62, 359, 991 8, 178, 283	47,663,076	132, 608, 713 75, 414, 537	193, 323, 187	167 959 104
2, 165 7, 500 2, 554 3, 833  16, 000, 000 487, 149 5, 062 288, 982 60, 000 1, 039, 345 143, 201 15, 973, 202 2, 275 26, 042 19, 520 47, 308 25, 000 580 75, 945 20, 590	6, 390, 487 3, 524, 614 26, 876, 671 106, 574 22, 500 80, 853 368, 058 22, 835 25, 932 149, 970 1, 080, 000 129, 094 37, 159 755, 864 30, 000 2, 673, 202 391, 541 4, 920, 020 45, 590 58, 295 31, 232 501, 029 1, 750, 000 6, 450 664, 632 57, 652	12, 111, 208 4, 064 8, 312 2, 967 2, 733 16, 000, 000 486, 979 7, 675 291, 638 60, 000 1, 308, 885 103, 364 17, 612, 634 1, 200 31, 306 6, 247 48, 479 33, 000 605 76, 337 25, 149	75, 414, 537 15, 296, 813 44, 193, 359 74, 487, 680 9, 859, 501 6, 886, 549 3, 723, 540 28, 635, 175 275, 064 23, 990 86, 850 489, 769 16, 691 25, 934 180, 486 1, 120, 000 126, 614 63, 050 755, 280 30, 000 3, 453, 460 593, 801 6, 212, 554 32, 960 108, 339 9, 371 534, 345 2, 310, 000 10, 300 675, 649 75, 437	53,944,647 57,070,830 15,520,445 4,900 13,600 2,765 4,334 40,714,000 433,004 15,900 486,235 60,000 1,515,702 174,734 19,708,614 4,834 10,230 51,020 40,146 681 75,085 35,280	88, 142, 130 20, 074, 873 64, 603, 904 95, 797, 370
12,516 57,009 17,113 1,361,706 1,070 1,143 11,108 82,676 740 23,255,911 44,000	43,100 396,936 112,272 65,730 13,671 95,505 80,774 14,452 4,599,106 1,980	$ \begin{array}{c} 13,440 \\ 54,356 \\ 14,860 \\ 2,360,000 \\ 890 \\ 1,263 \\ 15,957 \\ 129,520 \\ 3,999 \\ 28,853,464 \\ 250,776 \end{array} $	32, 395 411, 430 106, 500 75, 200 19, 075 129, 185 103, 534 27, 564 8, 051, 833 13, 542		211, 545 438, 150 79, 644 167, 106 18, 480 82, 278 70, 587 50, 878 6, 948, 030 20, 000
158 13, 466 100 21, 923	130, 675 26, 227 350 365, 629	600 21, 425 140 22, 231	160, 920 13, 200 42, 670 700 287, 112	400 29,852 230 24,765	185,770 10,000 180,345 1,030 330,805
	380, 782, 607 265, 209, 975 1, 000, 000		417,790,671 305,482,183 1,000,000		525, 524, 074 487, 831, 631 1, 000, 000

	Product.		.900.
	110duce.	Quantity.	Value.
	METALLIC.		
1 2 3 4 5 6 7 8 9 10 11 12	Pig iron, value at Philadelphia long tons Silver, commercial value troy ounces Gold, coining value do Copper, value at New York City pounds Lead, value at New York City short tons Zinc, value at New York City do Quicksilver, value at San Francisco flasks Aluminum, value at Pittsburg pounds Antimony, value at Pittsburg pounds Antimony, value at Philadelphia pounds Tin. do Platinum, value (crude) at New York City troy ounces	3,829,897 606,117,166 270,824 123,886 28,317 7,150,000 4,226 9,715	\$259, 944, 000 35, 741, 100 79, 171, 000 98, 494, 039 23, 561, 688 10, 654, 196 1, 302, 586 1, 920, 000 837, 896 3, 886
13	Total value of metallic products		511,632,891
	NONMETALLIC (SPOT VALUES).		
14 15 16 17 18 19 20 21	Bituminous coal short tons. Pennsylvania anthracite long tons. Natural gas. Petroleum barrels. Clay products. Cement barrels. Lime Sand-lime brick.	51, 221, 353 63, 620, 529	220, 930, 313 85, 757, 851 23, 698, 674 75, 989, 313 96, 212, 345 13, 283, 581 6, 797, 496
22 23 24	Stone		4,240,466 36,970,777 102,715
25 26 27	Corundum and emery short tons Crystalline quartz do. Garnet for abrasive purposes do. Grindstones	14, 461 3, 185	40 705
28 29 30 31	Infusorial earth and tripoli short tons. Millstones. Oilstones, etc. Arsenious oxide. pounds.	3,615	123, 475 710, 028 24, 207 32, 858 174, 087
32 33 34 35 36	Borax         short tons           Bromine         pounds           Fluorspar         short tons           Gypsum         do           Lithium         do	$ \begin{cases}     b1,602 \\     c24,235 \\     521,444 \\     18,450 \\     504,469 \end{cases} $	170,036 848,215 140,790 94,500 1,627,203
37 38 39 40	Maris   do   Phosphate rock   long tons   Pyrite   do   do   Sulphur   short tons	60,000 1,491,216 204,615	30,000 5,359,248 749,991 88,100
41 42 43 44 45	Salt barrels barrels Barytes (crude) short tons Cobalt oxide pounds Mineral paints short tons	67,680 6,471 57,496	6,944,603 188,089 11,648 644,089
46 47 48	Zine white         do.           Asbestos         do.           Asphalt         do.           Bauxite         long tons	1,054 54,389	3,667,210 16,310 415,958 89,676
49 50 51 52 53	Chromic iron ore         do.           Feldspar         short tons.           Fibrous tale         do.           Fuller's earth         do.           Glass sand         do.	24,821	1, 400 180, 971 499, 500 67, 535
54 55 56	Graphite (crystalline) pounds. Graphite (amorphous) short tons. Magnesite do	5,507,855 611 2,252	} 197,579 19,333
57 58 59 60 61	Manganese ores.     long tons.       Mica (sheet).     pounds.       Mica (scrap).     short tons.       Mineral waters.     gallons sold.       Monazite and zircon.     pounds.	11,771 456,283 5,497 47,558,784 908,000	100, 289 92, 758 55, 202 6, 245, 172 48, 805
62 63 64 65 66	Precious stones. Pumice stone. Quartz (flint) Rutile. Tale and soapstone. Short tons. do. Rutile pounds. Tale and soapstone. short tons.	32, 495 300 27, 943	233, 170 86, 351 1, 300 383, 541
67 68	Tungsten do Uranium and vanadium do	46	11,040
69 70 71	Total value of nonmetallic mineral products.  Total value of metallic products.  Estimated value of mineral products unspecified.	***************************************	594, 398, 501 511, 632, 891 1,000,000
72	Grand total		1,107,031,392

 $<sup>\</sup>alpha$  No metallic tin; about 20 tons of high-grade concentrates shipped to England from South Carolina.

the calendar years 1880-1906—Continued.

190	)1.	190	2.	19	03.
Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
15, 878, 354 55, 214, 000 3, 805, 500 602, 072, 519 270, 700 140, 822 29, 727 7, 150, 000 2, 639 6, 700	\$242, 174, 000 33, 128, 400 78, 666, 700 87, 300, 515 23, 280, 200 11, 265, 760 1, 382, 305 2, 238, 000 539, 902 3, 551	17, 821, 307 55, 500, 000 3, 870, 000 659, 508, 644 270, 000 156, 927 34, 291 7, 300, 000 3, 561 5, 748	\$372,775,000 29,415,000 80,000,000 76,568,954 22,140,000 14,625,596 1,467,848 2,284,590 634,506 2,701	18,009,252 54,300,000 3,560,000 698,044,517 282,000 159,219 35,620 7,500,000 3,128 114,200	\$344, 350, 000 29, 322, 000 73, 591, 700 91, 506, 006 23, 520, 000 16, 717, 995 1, 544, 934 2, 284, 900 548, 433 45, 900
1,408	27, 526	94	1,814	(a) 110	2,080
	480,006,859		599, 916, 009		583, 433, 948
225, 828, 149 60, 242, 560 69, 389, 194 20, 068, 737	236, 422, 049 112, 504, 020 27, 066, 077 66, 417, 335 110, 211, 587 15, 786, 789 8, 204, 054	260, 216, 844 36, 940, 710 88, 766, 916 25, 753, 504	290, 858, 483 76, 173, 586 30, 867, 863 71, 178, 910 122, 169, 531 25, 366, 380 9, 335, 618	282,749,348 66,613,454 100,461,337 29,899,140	351, 687, 933 152, 036, 448 35, 807, 860 94, 694, 050 131, 062, 421 31, 931, 341 9, 255, 882
4, 305 14, 050	4,787,525 47,284,183 146,040 41,500	4, 251 15, 104	5, 696, 051 54, 798, 682 104, 605 84, 335	2,542 8,938	155, 040 6, 256, 885 57, 433, 141 64, 102 76, 908
4, 444	158, 100 580, 703 52, 950 57, 179 158, 300 18, 000	3,926 5,665	132, 820 667, 431 53, 244 59, 808 221, 762 81, 180	3,950 9,219	132, 500 721, 446 76, 273 52, 552 366, 857
600,000 55,344 c17,887 552,043 19,586	314, 811 154, 572 113, 803	2,706,000 b 17,404 c 2,600 513,893 48,018	81, 180 2, 447, 614 91, 000 128, 472 271, 832	1,222,000 c 34,430 598,500 42,523	36, 691 661, 400 167, 580 213, 617
633,791 1,750 99,880 1,483,723 241,691	1,506,641 43,200 124,880 5,316,403 1,257,879	816, 478 1, 245 12, 439 1, 490, 314 207, 874	2,089,341 25,750 12,741 4,693,444 947,089	1,041,704 1,155 34,211 1,581,576 d 233,127	3, 792, 943 23, 425 22, 521 5, 319, 294 1, 109, 818
20, 566, 661 49, 070 13, 360 52, 209	(d) 6,617,449 157,844 24,048 636,145	(d) 23,849,231 61,668 3,730 60,191	(d) 5, 668, 636 203, 154 6, 714 745, 227	18,968,089 50,397 120,000 56,262	5, 286, 988 152, 150 228, 000 500, 922
46,500 747 63,134 18,905 368	3,720,000 13,498 555,335 79,914 5,790	52, 645 1, 005 105, 458 27, 322 315	4,016,499 16,200 765,048 120,366 4,567	62,962 887 101,255 48,087 150	4,801,718 16,760 1,005,446 171,306 2,250 256,733
34, 741 69, 200 14, 112	220, 422 483, 600 96, 835	45, 287 71, 100 11, 492 943, 135	250, 424 615, 350 98, 144 807, 797	41, 891 60, 230 20, 693 823, 044	256, 733 421, 600 190, 277 855, 828
3,967,612 809 3,500 11,995 360,060	167,714 10,500 116,722 98,859	{ 3,936,824 4,739 2,830 7,477 373,266	182, 108 8, 490 60, 911 83, 843	4,538,155 16,591 3,744 2,825 619,600	225,554 10,595 25,335 118,088
2, 171 55, 771, 188 748, 736	19,719 7,586,962 59,262 289,050	1, 400 64, 859, 451 802, 000	35, 006 8, 793, 761 64, 160 328, 450 2, 750	1,659 51,242,757 865,000	25, 040 9, 041, 078 65, 200 307, 900 2, 665
34, 420 44, 250 28, 643 179	149, 297 5, 710 424, 888 27, 720	36, 365 (e) 26, 854 184	144, 209 525, 157 34, 040	55, 233 26, 671 292 30	156, 947 418, 460 43, 639 5, 625
375	660,993,170 480,006,859 1,000,000	3,810	48, 125 722, 186, 708 599, 916, 009 1, 000, 000	30	907, 495, 032 583, 433, 948 1, 000, 000

 $<sup>^</sup>b$  Refined.  $^o$  Crude.  $^d$  Included under pyrite.  $^o$  Included under estimated unspecified products.

Mineral products of the United States for the calendar years 1880-1906—Continued.

De de	19	04.	19	05.
Product.	Quantity.	Value.	Quantity.	Value.
METALLIC.				
	10 407 000	0000 000 000	00 000 000	9999 450 000
Pig iron (spot value)long tons Silver, commercial valuetroy ounces	16, 497, 033	\$233,025,000	22, 992, 380	\$382, 450, 000 34, 221, 970
Told coining value troy offices.	55,999,864	32, 035, 378 80, 835, 648	56, 101, 600	09, 221, 371
John value at New York City pounds	3,910,729		4, 265, 742	88, 180, 700
Gold, coining value	812,537,267	105, 629, 845	901, 907, 843	139, 795, 710
Zing value at New York Citysnort tons	307,000	26, 402, 000	302,000 203,849	28,690,000
Zinc, value at New York Citydo Quicksilver, value at San Franciscoflasks	186,702 34,570	18,670,200		24, 054, 182 1, 103, 120
Aluminum value at Dall Francisco	9 600 000	1,503,795 2,477,000	30, 451	3,246,300
Antimony value for Propriess of tons	8,600,000	505, 524	11, 347, 000 3, 240	705, 787
Aluminum, value at Pittsburgpounds. Antimony, value, San Franciscosh. tons. Nickel, value at Philadelphiapounds.	3,057 24,000	11,400	0,240	100,101
Pin do	24,000	11, 100	None.	
rindo. Platinum, value (crude) at New York City,		**********	Avone.	
troy ounces	200	4,160	318	5,320
ordy vances	200	1,100	010	0,020
Total value of metallic products	Andrew Comments	501,099,950		702, 453, 103
		001,000,000		102, 100, 10
NONMETALLIC (spot values).				
Bituminous coalshort tons	278,659,689	305, 397, 001	315, 062, 785	334,658,29
Pennsylvania anthracitelong tons.		138, 974, 020	69, 339, 152	141,879,000
Vatural case	00,010, 100	38, 496, 760	00,000,102	41,562,85
Natural gas	117 080 080	101, 175, 455	134, 717, 580	24 157 20
Var products	111,000,000	191 009 048	104, 111, 000	84, 157, 39 149, 697, 18
lament hamala	21 675 957	131,023,248	40 100 200	25 021 52
Lime short tens	31,675,257	26, 031, 920	40, 102, 308	35, 931, 53 10, 941, 68
lay products barrels.  Lement barrels.  Lime short tons.  Sand-lime brick	2,707,809	9, 951, 456 463, 128	2,984,100	
Note				972,06
Slate		5, 617, 195		5,496,20
Stone		58, 765, 715		63, 798, 74
forundum and emeryshort tons	1,910	56, 985	2,126	61, 46
rystalline quartzdo	31,940	74,850 117,581	19,039	88,113
farnet for abrasive purposesdo	3,854	117, 581	5,050	148,09
Stone Corundum and emery short tons. Crystalline quartz do. Garnet for abrasive purposes. do. Garnet for abrasive purposes. do. Grindstones. Infusorial earth and tripoli. short tons. Millstones.		881, 527		777,60
nfusorial earth and tripoli short tons	6,274	44, 164	10,977	64,63
Millstones		37, 338		37,97
Justones, etc		188, 985		244, 54
Arsenious oxidepounds Borax (crude)short tons	72,413	2, 185 698, 810	1,507,386	35, 21
Borax (crude)short tons	45,647	698, 810	46,334	1,019,15
Brominepounds	897,100	269, 130	1, 192, 758	178, 91
Brominepounds Fluorsparshort tons	36, 452	234, 755	57,385	362,48
Gypsumdo	940, 917	2, 784, 325	1,043,202	3,029,22
Lithium mineralsdo	577	5, 155	79	1,41
Marlsdo	18,989	13, 145	38,026 1,947,190	16, 49
Phosphate rocklong tons	1,874,428	6,580,875	1,947,190	6,763,40
Phosphate rock. long tons. Pyrite. do.	004 079	9 470 580	5 253,000	938, 49
Sülphur do Salt barrels	334,373	3, 478, 568	181,677	3,706,56
Saltbarrels	22,030,002	6,021,222	25, 966, 122	6,095,92
Barvtes (crude)short tons	65,727	174, 958	48,235	148,80
Cobalt oxidepounds Mineral paintsshort tons	22,000	42,600		
Mineral paintsshort tons	52,336 63,363	493, 434	56,599	724, 93
Zine whitedo	63,363	4, 808, 482	68,603	5,520,24
Asbestosdo	1,480	4, 808, 482 25, 740	3,109	42,97
Asphaltdo	108,572	879, 836	115, 267	758, 15
Bauxitelong tons	47,661	235, 704	48, 129	240, 29
Chromic iron oredo		1,845	25	37
Feldsparshort tons	45, 188	266, 326	35, 419	226, 15
Fibrous taledo	64,005	507, 400	56,500	445,00
Fuller's earth do	29, 480	507, 400 168, 500	25, 178	214, 49
Glass sand	858,719	796, 492	1,060,334	1, 107, 73
Graphite (crystalline) pounds	5, 681, 177		6,036,567	1
Graphite (amorphous) short tons	16,927	321,372	21,953	318,21
Magnesitedo	2,850	9, 298	3,933	15, 22
Manganese oreslong tons	3, 146	29, 466	4,118	36, 21
Mica (sheet)pounds	3,146 668,358	109, 462	924, 875	160,73
Mica (scrap) short tons	1,096	10, 854	1,126	17,85
Mineral waters gallons sold.		7, 198, 450	47, 590, 081	6,811,61
Monazite and zirconpounds.	745, 999	85,038	1,352,418	163, 90
Precious stonespounds.	140,000	324, 300	1,002, 110	326, 35
Pumice stoneshort tons.	1,530	5, 421	1,832	5, 54
Quartz (flint)	52, 270	100 500	51, 145	104, 10
Rutilepounds		100, 590 7, 000	01,140	104,10
Sand, molding, etc., and gravelsh. tons	9,821,009	\$4,951,607	22, 144, 633	\$10, 115, 91
Tale and soapstonedo	27,184	433, 331	40, 134	
			803	637,06
Timoston		184,000		268, 67
	45	10,600	4	37
Uranium and vanadiumdo				
		859, 567, 604		921, 075, 61
Uranium and vanadiumdo  Total value of nonmetallic mineral products  Total value of metallic products		859, 567, 604 501, 099, 950		921, 075, 61 702, 453, 10
Uranium and vanadiumdo  Total value of nonmetallic mineral products  Total value of metallic products Estimated value of mineral products				
Uranium and vanadiumdo  Total value of nonmetallic mineral products  Total value of metallic products Estimated value of mineral products				702, 453, 10
Uranium and vanadiumdo  Total value of nonmetallic mineral products  Total value of metallic products		501,099,950		

Mineral products of the United States for the calendar years 1880-1906—Continued.

	19	06.
Product.	Quantity.	Value.
METALLIC. Pig iron (spot value)long tons	25, 307, 191	\$505,700,000
Silver, commercial value troy ounces. Gold, coining value do. Copper, value at New York City pounds. Lead, value at New York City short tons. Zine, value at New York City do.	56,517,900 4,565,333 917,805,682 350,153	38,256,400 94,373,800 177,595,888 39,917,442
Zinc, value at New York City     do.       Quicksilver, value at San Francisco     flasks       Aluminum, value at Pittsburg     pounds       Antimony, value at San Francisco     short tons	26,238	24, 362, 668 958, 634 4, 262, 286
Antimony, value at San Francisco short tons. Nickel, value at Philadelphia pounds. Tin do. Platinum, value (crude) at New York City troy ounces.	Contract to the second contract to	602, 949 35, 600
Total value of metallic productstroy ounces		45, 189 886, 110, 856
NONMETALLIC (spot values).		
Bituminous coal	342, 874, 867 63, 645, 010	381, 162, 115 131, 917, 694
Pennsylvania anthracite. long tons. Natural gas. Petroleum. barrels. Clay products.	126, 493, 936	131, 917, 694 46, 873, 932 92, 444, 735 161, 032, 722
Lime	51,000,445 3,197,754	55, 302, 277 12, 480, 653
Sand-lime brick		1, 170, 005 5, 668, 346 66, 378, 794
Corundum and emery. short tons.  Crystalline quartz. do.  Garnet for abrasive purposes do	1,160 24,082 4,650	44, 310 121, 671 157, 000
Grindstones.  Infusorial earth and tripoli.  Millstones.  Otherwise	8,099	744, 894 72, 108 48, 590
Oilstones, etc.  Arsenious oxide.  Borax (crude)  short tons.	- 58, 173	268, 070 63, 460 1, 182, 410
Bromine         pounds           Fluorspar         short tons           Gypsum         do           Lithium minerals         do	40,796 1,540,585	165, 204 244, 025 3, 837, 975
Maris do. Phosphate rock long tons. Pyrite do.	19,104 2,080,957	3,837,975 7,411 7,341 8,579,437
Sulphur do. Salt barrels Barytes (crude) short tons	294, 153 28, 172, 380	931, 305 5, 096, 678 6, 658, 350
Cobalt oxide	40 021	160, 367 521, 729
Asbestos. do Asphaltum do Bauxite. long tons	1,695 138,059	5,999,375 28,565 1,290,340
Chromic iron ore. do. Feldspar. short tons. Fibrous tale. do.	107 75, 656	368, 311 1, 800 401, 531 557, 200
Fuller's earthdo	1 089 430	265, 400 1, 208, 788
Graphite Crystalline. pounds Amorphous short tons. Magnesite do. Mangage orgs	16,853 7,805	238, 064 102, 175 23, 415
Manganese ores. long tons. Manganiferous iron ores. do. Mica See . pounds.	41,300 1,423,100	88, 132 122, 400 252, 248
Mineral waters gallons sold Monazite and zircon pounds  Precious stones.	1, 489 51, 407, 668 847, 275	22,742 8,559,650 152,560
Pumice stone	12,200	208, 000 16, 750 243, 012
Rutile. pounds Sand, molding, etc., and gravel short tons Tale and soapstone. do. Tungsten do	58, 972 928	11, 489, 420 874, 356 348, 867
Crantum and Vanadiumdo		
Total value of nonmetallic mineral products  Total value of metallic products Estimated value of mineral products unspecified		1,016,206,709 886,110,856 200,000
Grand total		1,902,517,565

OUTPUT AND VALUE, BY STATES AND TERRITORIES, OF THE MINERAL PRODUCTS OF THE UNITED STATES IN THE CALENDAR YEARS 1905 AND 1906.

In the following table are shown the quantity and the value, by States and Territories, of the mineral products of the United States in 1905 and 1906, including both certain raw materials and also certain derivative materials in their first marketable condition, which do not appear in the table of mineral products of the United States as a whole. For example, both pig iron and iron ores are included as important products entering into the commerce of certain States; and in like manner are included both pig lead and lead paints; both clay products and raw clay; both coal and its immediate derivatives, coke, gas coke, illuminating gas, ammonium sulphate, and coal tar; both bauxite and aluminum, and also alum and aluminum sulphate.

These derivatives and raw materials are here given, regardless of the consequent duplication of values, in response to a constant demand for this information thus arranged by States. Unfortunately, it has not been possible to give separately the values of all of the products under the respective States because of the necessity of preventing the disclosure of individual returns. These values will be found grouped together under the headings "Other products" and "Miscellaneous," except in those few cases in which the products of two or more States

are combined.

The values for gold and silver in 1905 and 1906 given under the different States are the values for the output reported to the United States Geological Survey directly from the producing mines as given in the respective sections of the chapter on gold and silver; the values for 1905 and 1906 in the preceding table are the official figures agreed upon by the United States Geological Survey and the Director of the Mint. The figures for copper, lead, and zinc are taken from their respective chapters and are based on smelter reports; they differ somewhat from the corresponding figures in the chapter on gold and silver, which are based on mines reports. The figures for the tonnage (not the value) of pig iron in 1905 and 1906 are taken from the annual reports prepared by Mr. James M. Swank, general manager of the American Iron and Steel Association.<sup>a</sup>

The total value of the output, raw materials and derivatives, by States, as shown in this statement for 1906 is \$2,186,086,366, as against \$1,853,874,155 in 1905, a gain in 1906 of \$332,212,211.

a Ann. Statist. Rept. Amer. Iron and Steel Association for the years 1905 and 1906.

Output and value, by States and Territories, of the mineral products of the United States in the calendar years 1905 and 1906.

### ALABAMA.

Product	1905		1906.		
Product.	Quantity.	Value.	Quantity.	Value.	
Clay short tons.  Clay products.  Coal	56,365  11,866,069 2,576,986 230,207 4,592,516 1,905,498,180 384,206 384,206 2,009 3,782,831 1,604,062 79,973 57,269 197,942	\$22, 924 1, 392, 871 14, 387, 721 7, 646, 957 a 253, 453 128, 271 429, 817 1, 157, 987 130 4, 257, 155 b 22, 680, 000 292, 162 23, 704  93, 022 23, 727 203 560, 210 d 193, 444	45,871 13,107,963 3,034,501 1,205.51 3,995,098 1,674,848 92,402 65,450 216,037	\$20,564 1,688,899 17,514,786 8,477,899  \$b,2,166,480 24,921 5,123,539 \$b,28,450,000 341,627 226,075 (c) 129,916 (d) 87 704,811 d 376,555	
Total		53,585,288		65,046,153	

#### ALASKA.

Coalshort tons. Copperpounds Gold (mines report)fine ounces (troy) Lead.short tons. Silver (mines report)fine ounces (troy) Stone.Other products.	4,900,866 756,101.28 132,724	\$13,250 759,634 15,630,000 (a) 80,165 710	5,541 8,685,646 1,066,029.91 8 166,068	\$17,974 1,676,330 22,036,794 912 111,266 (b) b 28,379
Total		16,483,759		23,871,655

### ARIZONA.

Clay products.  Copper. pounds. Gold (mines report) fine ounces (troy). Lead. short tons. Lime. do Silver (mines report) fine ounces (troy). Stone. Zinc short tons. Other products.	235,908,150 135,412 1,986 5,298 2,605,712	\$90,436 36,565,763 2,799,214 188,670 32,557 1,573,850 69,393	262,566,103	\$93,694 50,675,257 2,964,683 328,776 96,470 2,027,714 65,231 7,808 a 106,256
Total		41,346,134		56,365,889

a Includes in 1905: Asbestos, clay molybdenum, mineral waters, sand-lime brick, and tungsten. Includes in 1906: Asbestos, clay, Portland cement, mineral waters, precious stones, tungsten.

a Includes Georgia.

b Estimated.
c Included under Texas.
d Includes in 1905: Bauxite, cement, graphite, natural gas, and pyrite. Includes in 1906: Barytes, bauxite, Portland and slag cement, graphite, ocher, pyrite, sand-lime brick, sienna, Venetian red.

a Included under Miscellaneous.
 b Includes in 1906: Gypsum, marble, mineral waters.

Output and value, by States and Territories, of the mineral products of the United States in the calendar years 1905 and 1906—Continued.

### ARKANSAS.

	1905.	5. 19		906	
Product.	Quantity.	Value.	Quantity.	Value.	
Asphalt short tons. Bauxite long tons. Clay products	1,000 32,956	\$3,000 164,780 643,959	900 50,267	\$5,400 242,876 532,194	
Coal	1,934,673 66,900	2,880,738 3,677	1,864,268	3,000,339	
Gas, illuminating	51, 914, 400 3, 894	72, 026 16, 247		a 101, 145	
Limedo Manganese oreslong tons	29, 424	114, 846	30, 348 62	121,953 290	
Manganiferous iron oresdododo	474,005	50, 501	8,900 727,765	24,800 105,280 5 34,500	
Natural gas	122, 364	50, 485 10, 000	214, 425	104, 213	
Stone Short tons		304, 291	1,801	240, 350 219, 725	
Other products		¢ 168, 587		c 195, 832	
. Total		4, 483, 137		4, 933, 89	

### CALIFORNIA.

Asphaltshort tons	91,076	\$568, 403	91,957	\$758,579
Boraxdo	46, 334	1,019,154	58, 173	1, 182, 410
Cement, Portlandbarrels	1, 225, 429	1,671,816	1, 310, 435	2, 110, 294
Chromitelong tons.	22	375	107	1,800
Clayshort tons.	50,850	50, 290	57, 413	67, 418
Clay products		3,865,147		4, 364, 230
Coalshort tons.	77,050	382,725	25, 290	60,710
Coal targallons	27, 220	2,212		
Gas, illuminatingcubic feet	30, 474, 033	47,793		a 73, 027
Gas cokeshort tons	1,710	16,384		
Copperpounds	16,697,489	2,588,111	28, 153, 202	5, 433, 568
Glass sand	9, 257	8,122	7,324	6,124
Gold (mines report)fine ounces (troy)	914, 217. 14	18,898,545	906, 182, 36	18, 732, 452
Leadshort tons	110	10 450	400	49,248
Limedo	67, 476	535, 157	73,941	601, 557
Lithium mineralsdo	21	252	10,011	(b)
Magnesitedo	3,933	15, 221		(b) 23, 415
Manganese oreslong tons.	1	5	*,000	(b)
Mineral watersgallons sold.	1,934,784	675, 214	1, 487, 975	520, 515
Natural gas	1,003,103	133, 696		134, 560
Ochershort tons	780	5,900	500	4, 470
Petroleum barrels.	33, 427, 473	8, 201, 846	33,098,598	9,553,430
Platinumerude ounces (troy)	00, 121, 210	3,320	00,000,000	(b)
Precious stones		0,020		121,600
Pyritelong tons	61,748	247,712	52,926	236, 867
Quicksilverflasks	24,635	886,081	20, 310	730, 808
Solt horrole	664,099	188, 330	806, 788	291,528
Salt barrels. Sand and gravel short tons.	141,636	62,985	228,050	103, 300
Sand-lime brick	111,000	34,689	220,000	61, 189
Silver (mines report)fine ounces (troy)	1 076 174	650,009	1, 220, 641	817,830
	5,000	40,000	10,000	80,000
Statesquares	0,000	2,531,928	10,000	2, 254, 626
Other products.		b 64, 386	********	b 1, 661, 854
other produces	*******************************	04,300		1,001,001
Total		43, 406, 258		50,037,409

<sup>&</sup>lt;sup>a</sup> Estimated.
<sup>b</sup> Includes in 1905: Asbestos, gypsum, infusorial earth, metallic paint, tale, and tungsten. Includes in 1906: Arsenic, asbestos, fuller's earth, gypsum, infusorial earth and tripoli, litharge, lithium minerals, manganese ore, metallic paint, orange mineral, platinum, tungsten, red lead, white lead, zinc lead.

<sup>&</sup>lt;sup>a</sup> Estimated.

<sup>b</sup> Includes Wyoming.

<sup>c</sup> Includes in 1905: Iron ores, natural gas, oilstones, and sand-lime brick. Includes in 1906: Fuller's earth, oilstones, phosphate rock, sand-lime brick, slate and shale.

Output and value, by States and Territories, of the mineral products of the United States in the calendar years 1905 and 1906—Continued.

### COLORADO.

Parket	1905		19	06.
Product.	Quantity.	Value.	Quantity.	Value.
ismuthpounds	2,288	\$4,187	8,334	\$12,500
layshort tons	41,317	42,669	71,796	70, 597
lay products		1,633,231		1,831,088
oalshort tons	8, 826, 429	10,810,978	10, 111, 218	12, 735, 616
Cokedo	1,378,824	a 4, 157, 517	(b)	(b)
Ammonium sulphatepounds	243,756	c 9, 289		1
Coal targallons	698, 527	26,758		d 880, 028
Gas, illuminatingcubic feet	496, 695, 079	556,917		4 300, 020
Gas cokeshort tons	35,089	140,673		12000018031
opperpounds	9, 404, 830	1,457,749	7, 427, 253	1, 433, 460
luorsparshort tons	1,156	8,200		(€)
lass sanddo	1,500	1,875	750	938
old (mines report)fine ounces (troy)	1, 210, 534. 73	25,023,973	1, 122, 814.17	23, 210, 629
ron oreslong tons	133, 471	398,700	14,078	22, 52
ron, pigdo		(f)		(b)
eadshort tons	53,806	5,111,570	50, 497	5, 756, 65
imedo	10,115	48, 459	6,595	32, 02
langaniferous iron oreslong tons.			32,400	97,60
lineral watersgallons sold	903, 600	130, 623	829,850	116, 36
atural gas		20,752		22,80
atural gas barrels	376, 238	337,606	327,582	262, 67,
recious stones				2,00
and and gravelshort tons	21, 295	12,870	47, 456	19,58
ilver (mines report)fine ounces (troy)	11, 499, 307	6,945,581	12, 216, 830	8, 185, 27
tone		816, 751		725, 12
ranium and vanadiumshort tons	4	a 375		(b)
incdo	6,599	778, 682	32, 456	3, 959, 63
ther products		b 804, 959		b 10, 457, 466
Total		FO 000 5 11		20 504 55
Total				69, 834, 58

### CONNECTICUT.

Clay products		a\$1,608,578		a \$1,747,205
Coal products: Ammonium sulphatepounds		(b)		(b)
Coal targallons.	712, 328	35,980		(0)
Gas, illuminating	527, 103, 580	579,553		c 823, 834
Gas cokeshort tons.	37,958	133, 407		
Feldspardo	19,541	d 107, 536		(e) (e)
Flintdo		(f)		(e)
Iron, piglong tons	12,521	c 220,000		(6)
Limeshort tons	70, 558	261,509	90, 457	411,853
Mineral watersgallons sold	205, 115	23, 362	453, 473	76,827
Precious stones				200
Sand and gravelshort tons	12,821	6,958	14,633	5, 466
Stone		1,014,064		1,386,540
Other products		e 107, 678		e 2, 217, 363
Total		4,098,625		6,669,288

21650-м к 1906-4

a Includes Utah.
b Includes in 1905: Cement, graphite, mica, sand-lime brick, and tungsten. Includes in 1906: Cement, coke, fuller's earth, graphite, gypsum. mica, pig iron, sand-lime brick, tantalum, tungsten, uranium, vanadium.
c Includes Washington.
d Estimated.
f Included under Kentucky.
f Included under miscellaneous.

a Includes Rhode Island.
b Included under Rhode Island.
c Estimated.
d Includes Maine and New York.
c Includes in 1905: Clay, crystalline quartz, infusorial earth, and iron ores. Includes in 1906: Clay, feldspar, infusorial earth, iron ores, metallic paint, mica, pig iron, crystalline quartz, quartz (flint), sandstone.
Included under Maryland.

Output and value, by States and Territories, of the mineral products of the United States in the calendar years 1905 and 1906—Continued.

### DELAWARE.

Product.	1905.		1906.	
	Quantity.	Value.	Quantity.	Value.
Clay products		\$227,064		\$237, 768
Ammonium sulphatepounds		(a)		(a)
Gas, illuminatingcubic feet	76, 606 60, 690, 000	2,725 61,226		b 84, 360
Gas cokeshort tons Sand and graveldo	4, 128 160, 881	12,740 65,181	84, 871	35, 19
StoneOther products		178, 428 c 215, 580		146, 346 c 310, 461
Total		762,944		814, 126

### DISTRICT OF COLUMBIA.

Clay products	\$317,021	 \$335, 139
Ammonium sulphatepounds	(a) (a)	 (a)
Gas, illuminatingeubic feet	(a) (a)	 (a) (a)
Gas coke. short tons. Mineral waters. gallons sold.	(a) (b)	 (a)
Other products	(b)	 ¢ 26, 900
Total	317,021	 362, 039

a Included under Maryland.  $\ ^b$  Included under Miscellaneous.  $\ ^c$  Includes in 1906: Mineral waters, pottery.

### FLORIDA.

	-			
Clay products Coal products: Coal tar gallons		\$329, 738		\$289, 644
Gas, illuminatingcubic feet		(a)	***********	(a)
Gas cokeshort tons	10,719	(a) 63, 950	18, 362	(a) 71, 382
Mineral watersgallons sold	140,920	28, 170	71, 494	22,049
Phosphate rocklong tons Sand-lime brick	1, 194, 106	4, 251, 845	1, 304, 505	5, 585, 578 89, 306
Stone		5,800		1, 450
		b 149, 280		b 336, 416
Total		4,828,783		6,395,825

### GEORGIA.

	-			
Cement, natural barrels. Clay short tons. Clay products	89, 167 29, 028	\$51,040 102,467 2,119,746	180, 500 38, 979	\$98,075 156,690 2,400,624
Coal short tons do do	353, 548 70, 593	a 456, 184 224, 260	332, 107 70, 280	424, 004 277, 921
Ammonium sulphate pounds.  Coal tar gallons.  Gas, illuminating cubic feet.  Gas coke short tons.	712, 799 468, 572, 850 34, 720	(b) 24,604 491,138 101,181		c 678, 615
Copperpounds Glass sand short tons	4 500		17, 182	3,316
Glass sand	4,500 4,688 200,842	4,050 96,910 296,561	6,000 1,502.05 411,230	6,000 31,050 734,780

a Includes North Carolina.

a Included under Maryland.
 b Estimated.
 c Includes in 1905: Clay, pigments (unclassified), and sand-lime brick. Includes in 1906: Clay, lithophone, sand-lime brick.

 $<sup>^{\</sup>sigma}$  Included under Louisiana.  $^{b}$  Includes in 1905: Pottery, sand and gravel, and sand-lime brick. Includes in 1906: Clay, fuller's earth, pottery, and sand and gravel.

<sup>&</sup>lt;sup>b</sup> Included under Alabama.

c Estimated.

#### GEORGIA-Continued.

	1905.	1905.		06.
Product.	Quantity.	Value.	Quantity.	Value.
ron, pig. long tons.  dime short tons.  danganese ores long tons.  dineral waters gallons sold.  ocher short tons.  and and gravel do silver (mines report) fine ounces (troy).  late squares.  tone  ther products	16, 200 150 270, 249 4, 209 80, 503 1, 040 1, 500	(a) \$49,580 900 37,619 43,481 37,203 628 7,500 1,754,787 6697,376	18, 903 130, 900 5, 550 329, 797 329, 797 1, 000	(b) \$72,840 14,535 58,350 111,816 405 5,000 1,727,713 b 2,125,630
- Total		6, 597, 215		8,927,36

May products		\$212,780		(a)
loalshort tons	5,882	b 17, 846	5, 365	\$18,538
Coal targallons		(c)		(c)
Gas, illuminatingcubic feet		(c)		(c)
Gas cokeshort tons		(c)	**********	(c)
Copperpounds	7, 321, 585	1, 134, 846	8, 578, 046	1, 655, 563
Gold (mines report)fine ounces (troy)	52,033	1, 075, 618	55,587.73	1, 149, 100
Leadshort tons	94,076	8,937,125	117, 117	13, 351, 338
Limedo	6,694	44, 733	5,932	39, 840
Precious stones				400
Pumiceshort tons		(d)		
Saltbarrels			1,574	1,867
Silver (mines report)fine ounces (troy)	8, 679, 093	5, 242, 172	9,018,815	6,042,606
Stone		37,870		24, 969
Zineshort tons		(1)	573	69,906
Other products		a 65, 865		a 367, 047
Total		16, 768, 855		22, 721, 174

<sup>a Includes in 1905: Clay, mineral waters, and salt. Includes in 1906: Antimony, clay, clay products, mica, mineral waters, phosphate rock, sand-lime brick.
b Includes Nevada.
c Included under Utah.
d Included under Nebraska.
e Included under Miscellaneous.</sup> 

# ILLINOIS.

AMMATOLIS.						
Cement, natural barrels	368,645	\$116,549	365,843	\$118,221		
Cement, Portlanddo	1,545,500	1,741,150	1,858,403	2,461,494		
Clayshort tons	127,728	120,410	139,704	131,272		
Clay products		12,361,786		12,634,181		
Coalshort tons	38, 434, 363	40,577,592	41,480,104	44,763,062		
Cokedo	10,307	27,681	268,693	1,205,462		
Ammonium sulphatepounds	312,926	22,956		1		
Coal targallons	2,415,023	49.714		-0 700 641		
Gas, illuminatingcubic feet	1,768,186,332	1,912,868		a 2,720,641		
Gas cokeshort tons	129,564	487,772				
Fluorspardo	33,275	220,206	28,268	160,623		
Glass sanddo	234, 391	146,605	238,178	156,684		
Iron, piglong tons.	2,034,483	a 37,040,000	2,156,866	a 47,128,000		
Leadshort tons	-,00-,1-0-	(b)	572	65,208		
Limedo	98,907	421,589	121,546	534,118		
Mineral waters gallons sold	425,750	47,995	574, 453	77,287		
Natural gas.	220,100	7,223	3, 2, 200	87,211		
Petroleum barrels.	181,084	116,561	4,397,050	3,274,818		
Sand and gravelshort tons	1,393,012	547,167	2,419,381	886,357		
Stone	2,000,022	3,541,005	2,110,001	2,961,456		
Zine short tons.	46,606	5, 499, 508	282	34,404		
Other products.	20,000	c 59,230	202	c 1,787,807		
Other products	************	~ 00 y 2000		- 1,101,001		
Total		105,065,567		121,188,306		

<sup>&</sup>lt;sup>a</sup> Included under Miscellaneous. <sup>b</sup> Includes in 1905: Asbestos, bauxite, Portland cement, graphite, infusorial earth, iron ores, mica, pyrite, and tale. Includes in 1906: Asbestos, asphalt, bauxite, Portland cement, fuller's earth, graphite, infusorial earth, pig iron, pyrite, sand-lime brick, tale, and soapstone.

a Estimated.
 b Included under Miscellaneous.
 c Includes in 1905: Slag, cement, and sand-lime brick. Includes in 1906: Alumand aluminum sulphate, slag cement, infusorial earth, sand-lime brick, Venetian red, and white lead.

# INDIANA.

	. 1905.		190	106.	
Product.	Quantity.	Value.	Quantity.	Value.	
Cement, naturalbarrels	527,600	\$211,040	600,000	\$240,000	
Cement, Portlanddo	3,127,042	3,134,219	3,951,836	4,964,855	
Clayshort tons	. 76,951	79,945	63,279	62,974	
Clay products		6, 499, 573		7,158,234	
Coalshort tons.	11,895,252	12,492,255	12,092,560	13, 116, 261	
Ammonium sulphatepounds	33,769	22,630			
Coal targallons.	1,712,397	44,198		a 1,694,141	
Gas, illuminatingcubic feet	1,216,172,974	1,169,947		1,001,111	
Gas cokeshort tons	90,927	303,354			
Glass sanddo	1,640	2,169	38,940	29,259	
Limedo	106,408	366,866	114,819	353,648	
Mineral watersgallons sold	897,175	435, 182	464,988	452,360	
Natural gas		3,094,134		1,750,715	
Oilstones		(b)	**********	23,806	
Petroleumbarrels	10,964,247	9,404,909	7,673,477	6,770,060	
Pyritelong tons.	3,107	11,491	2,579	7,179	
Sand and gravelshort tons	3,148,543	1,239,181	6,182,835	1,006,093	
Sand-lime brick		65,905		86,880	
Stone		3,204,680		3,756,305	
Total		41,781,678		34,472,776	

a Estimated.

<sup>b</sup> Included under Miscellaneous.

#### INDIAN TERRITORY.

Asphalt	short tons	2,936	\$27,790 374,235	2,690	\$18,461 299,790
Coal	short tons	2,924,427	5,145,358	2,860,200	5,482,366
Coke	do	54,781	199,424	49,782	204, 20
Coal tar	gallons	54,002	a 3, 323		
Gas, illuminating	cubic feet	52,194,000	a 55,792		b 83,232
Gas coke	short tons	3,636	a 16,551		
Lime	do	100	650	510	3,350
Mineral waters	gallons sold		(c)		(d)
Natural gas			a 130, 137		
Petroleum	barrels		(e)		(f)
Stone			9,510		45,237
					d 3,805
Total			5,962,770		6,140,446

# IOWA.

			1	
Clayshort ton	8		2,005	\$1,910
Clay products		\$3,392,122		3,469,027
Coalshort ton	s 6,798,609	10,586,381	7,266,224	11,619,455
Coal targallor		14,775		1
Gas, illuminatingcubic fee		633,557		a 910,651
Gas cokeshort tor		179,533		
Gypsumdo.		589,055		573, 498
Leaddo.		(b)	270	30,780
Limedo.	19,360	76,904	17,497	78,366
Mineral watersgallons sol		31,300	227,500	23,700
Sand and gravel short tor		92,287	184,673	74,380
Sand-lime brick		38,652		38,255
Stone		461,126		499,416
Zineshort tor	s		201	24,522
Other products		c 2,336		c 3, 840
Total		16,098,028		17,347,800

a Includes Oklahoma.
b Estimated.
c Included under Miscellaneous.

 $<sup>^</sup>d$  Includes in 1906: Clay, mineral waters.  $^e$  Included under Kansas.  $^f$  Included under Oklahoma.

a Estimated. b Included under Miscellaneous. c Includes in 1905: Clay, iron ores, and ocher. Includes in 1906: Ocher, shale, Venetian red.

## KANSAS.

n	1905.		190	)6.
Product.	Quantity.	Value.	Quantity.	Value.
Cement, natural barrels. Clay products Coal short tons Coke do. Coal tar gallons Gas, illuminating cubic feet Gas coke short tons Gypsum do Lead do Lime do Mineral waters gallons sold Natural gas Petroleum barrels Salt do Sand and gravel short tons Stone short tons	230,686 6,423,979 4,425 205,690 151,847,400 9,749 2,795 213,050 12,013,495 2,098,585 70,988 114,287	a \$110,750 1,906,360 9,350,542 13,818 10,898 194,310 35,260 150,402 (d) 17,242 47,708 2,261,836 6,546,398 576,139 21,552 1,003,006 13,485,866 g,2,349,861	1,932 1,560 305,957 2,198,837 293,918 3,902	\$3,908,708 2,432,371 8,979,555 4,101 247,572 220,244 10,217 89,807 4,010,986 (/) 681,322 66,762 892,012 476,044 299,856
Total		38,081,948		22,584,076

© Includes Texas.

b Portland cement.
c Estimated.
d Included under Miscellaneous.
c Included Indian Territory and Oklahoma.
f Included under Oklahoma.
f Included under Oklahoma.
g Includes in 1905: Portland cement, pottery, and sand-lime brick. Includes in 1906: Natural cement, emery, pottery, sand-lime brick, zinc lead, zinc white.

## KENTUCKY.

Asphaltshort tons	8,834	\$66, 420	4,172	\$31, 488	
Barytesdo		(a)		(a)	
Cement, naturalbarrels	207, 500	83,000		(b)	
Clayshort tons		57,090	45,910	59,780	
Clay products		2, 406, 350	20,020	2, 592, 423	
Coalshort tons	8, 432, 523	8, 385, 232	9, 653, 647	9, 809, 938	
Cokedo.	79, 487	159, 659	74,064	169, 846	
Ammonium sulphatepounds		15, 495	14,001	1	
Coal targallons		17,942			
Gas, illuminatingcubic feet		539, 724		} d 831, 887	
Gas, cokeshort tons		183, 100			
	22, 694	132, 362	c 12, 528	83, 402	
Fluorspar doGlass sand do	739	480	2,400	2,040	
Iron, piglong tons		d 1, 120, 000	98, 127	d 2,077,000	
		(e)	90, 121		
Lead short tons	9,556			5, 016	
Mineral watersgallons sold		28, 393	9,784	28, 081	
Natural gasganons soid	383, 750	42, 415	547, 605	76, 141	
	* 1 017 007	f 237, 590	£1 010 F40	287, 501	
Petroleumbarrels Precious stones		f 943, 211	f 1, 213, 548	f 1,031,629	
				250	
Sand and gravelshort tons	727, 131	282, 464	584, 477	291, 096	
Stone		1,025,044		920, 531	
Zineshort tons			335	40,870	
Other products		b 45, 840		b 419, 978	
Total		15,771,811		18,758,897	

Tincluded under Tennessee.

b Includes in 1905: Cement, iron ores, and sand-lime brick. Includes in 1906: Barytes, cement (Portand, natural, and slag), infusorial earth, iron ores, other, and sand-lime brick.

c Includes Colorado and Tennessee.

d Estimated.

c Included under Miscellaneous,
f Includes Tennessee.

#### LOUISIANA.

	1905.		1906.	
Product.	Quantity.	Value.	Quantity.	Value.
Clay products		\$821, 109		\$900,697
Coal tar gallons Gas, illuminating cubic feet Gas coke, short tons	87,226 67,703,000 6,180	a 5,710 a 90,989 a 26,313		b 135, 313
Mineral waters gallons sold Ratural gas	774,652	62, 106 1, 500		(e)
Petroleum barrels Salt do Sand and gravel short tons	8,910,416 1,055,186 350,669	1,601,325 303,507 189,962	9,077,528 1,179,528 941,734	3,557,838 268,005 448,449
Sulphurlong tons Other products	181, 677	d 3, 706, 560 6, 349		5,023,728
Total		6, 815, 430		10, 334, 030

 $<sup>\</sup>alpha$  Includes Florida and Mississippi. b Estimated.

#### MAINE.

Clay products		\$619,294		\$680,370
Coal products: Ammonium sulphatepounds		(a)		(a)
Coal targallons.	212, 445	9,983	1	(7)
Gas, illuminatingeubic feet	154, 068, 475	212, 257		b 300, 842
Gas cokeshort tons	10,746	51, 253		
Copperpounds		(c) (d)		
Feldsparshort tons		(d)		(e)
Limedo	220,927	971, 305	228, 208	1,066,275
Mineral watersgallons sold.	1, 167, 787	246, 159	1,127,928	258, 585
Precious stones				6,500
Slate		224, 254		238, 681
Stone		2,721,223		2, 562, 021
Other products		e 10,076		e 113, 948
Total		5,065,804		5,227,222

# MARYLAND.

Cement, naturalbarrels.	55,324	\$28,694	63,350	\$32,675
Clav short tons.	12,080	24, 405	18, 413	39,078
Clay products.		2,249,367		2, 136, 539
Coalshort tons.	5, 108, 539	5,831,760	5, 435, 453	6, 474, 793
Ammonium sulphatepounds	2, 234, 627	a 434, 385		1
Coal targallons	4, 155, 460	b 87, 512		40 COT TTO
Gas, illuminating	1,753,770,009	b 596, 358		f 2, 697, 773
Gas cokeshort tons.	406,764	1,334,266		
Feldspardo	15,878	c 118, 621	10, 229	34, 507
Flintdo	12,777	d 73, 450		(e)
Glass sanddo	17,899	20, 108	10,000	14,000
Gold (mines report)fine ounces (troy)	717	14,821		
Iron oreslong tons	8,269	14, 291		(e)
Iron, pigdo	332,096	f 5,850,000	386,709	f 8, 187, 000
Limeshort tons	134, 431	360, 247	127, 863	350, 460
Metallic paint and mortar colorsdo	1,174	3,812		(e)
Mineral watersgallons sold.	456, 214	44, 627	593, 671	58, 334
Sand and gravel short tons	447, 278	416,720		271, 797

c Included under Texas.
d Includes Nevada and Utah.

a Included under New Hampshire.
b Estimated.
c Included under Miscellaneous.
d Included under Connecticut.
c Includes in 1905: Pottery, sand, and gravel. Includes in 1906: Feldspar, pottery, sand, and gravel.

a Includes District of Columbia and Delaware.
b Includes District of Columbia.
c Includes Pennsylvania.
d Includes Pennsylvania and Connecticut.
e Includes Pennsylvania and Connecticut.
e Includes in 1965; Slag cement, coke, sand-lime brick, and talc. Includes in 1966; Slag cement, coke, quartz (flint), infusorial earth, iron ores, metallic paint and mortar colors, sand-lime brick, and Venetian red.
f Estimated.

#### MARYLAND-Continued.

Product.	1905.		1906.	
Product.	Quantity.	Value.	Quantity.	Value.
Silver (mines report)fine ounces (troy) Slate	93	\$56 151, 215		\$130,966
Stone		1,257,838 a 1,135,704	2,956	1, 239, 95, 23, 310 a 1, 248, 70
Total		20,048,257		22, 939, 89

<sup>&</sup>lt;sup>e</sup>Includes in 1905: Slag cement, coke, sand-lime brick, and talc. Includes in 1906: Slag cement, coke, quartz (flint), infusorial earth, iron ores, metallic paint and mortar colors, sand-lime brick, and Venetian red.

#### MASSACHUSETTS.

layshort tons			4, 411	\$6, 442
lay products		\$2,050,457		2, 172, 733
oal products:				
Ammonium sulphatepounds	774, 715	377,260		
Coal targallons	10,017,517	285,666		a 7, 132, 527
Gas, illuminatingcubic feet	4, 975, 461, 725	3, 574, 116		( 1, 102, 021
Gas cokeshort tons.	670, 542	2,247,074		
opperpounds			9,744	1,881
llass sandshort tons.	4,600	12,000	6,829	31,738
ron, piglong tons	3, 466	a 60,000		(6)
imeshort tons	84, 380	395, 326	119, 267	563, 100
fineral watersgallons sold	4, 202, 263	208, 419	3,857,955	210, 152
recious stones	1, 202, 200	wooy and	0,001,000	500
and and gravelshort tons.	180, 422	118,086	106,824	61, 354
tone	100, 100	3,263,058	100,021	4, 333, 616
		b 1, 432, 738	*********	b 2, 556, 518
Other products		0 1, 402, 100	*********	0 2,000,018
Total		14,024,200		16,770,561

#### MICHIGAN.

Brominepounds	1, 192, 758	a\$178,914		(6)
Cement, Portlandbarrels	2,773,283	2,921,507	3,747,525	\$4,814,965
Clayshort tons	951	3,354	1,989	5, 455
Clay products		1,765,707		1, 844, 477
Coalshort tons.	1, 473, 211	2, 512, 697	1,346,338	2, 427, 404
Ammonium sulphatepounds	2, 654, 323	271,333		
Coal targallons		116,809		4 MOC 040
Gas, illuminatingcubic feet		2,325,377		c 4, 736, 349
Gas cokeshort tons	470, 718	1,592,253		
Copperpounds	230, 287, 992	35, 694, 639	229, 695, 730	44, 790, 667
Glass sandshort tons			600	3,000
Grindstones		111,500		(b)
Gypsum		634, 434		753, 878
Iron oreslong tons	10,885,902	23, 367, 233	11,822,874	31, 145, 087
Iron, pigdo	288, 704	c 5, 750, 000	369, 456	c8,841,000
Limeshort tons	48,089	192,844	68, 133	281, 465
Mineral watersgallons sold		277, 188	902, 528	73, 357
Saltbarrels	9, 492, 173	1,851,332	9,936,802	2,018,760
Sand and gravelshort tons	414, 509	210,609	597, 189	194,699
Sand-lime brick		169,302		174, 921
Silver (mines report) fine ounces (troy)	253,011	152,819	d 244, 113	163,556
Stone		667,877		721,664
Other products		b 992, 413		b 1, 433, 844
Total		81, 760, 141		104, 424, 548

<sup>&</sup>lt;sup>a</sup> Estimated. - <sup>b</sup> Includes in 1905: Asbestos, clay, coke, emery, infusorial earth, iron ores, pyrite, salt, and talc. Includes in 1906: Alum and aluminum sulphate, asbestos, coke, corundum and emery, fuller's earth, iron ores, litharge, pig iron, pyrite, red lead, salt, talc and soapstone, Venetian red, and white lead.

<sup>&</sup>lt;sup>4</sup> Includes Ohio and West Virginia.
<sup>5</sup> Includes in 1905: Asbestos, coke, graphite, petroleum, and whetstones. Includes in 1906: Aluminum salts, bromine, coke, graphite, grindstones, and whetstones.
<sup>c</sup> Estimated.
<sup>d</sup> From smelter reports.

# MINNESOTA.

	1905.		1906.	
. Product.	Quantity.	Value.	Quantity.	Value.
Clay products  Coal products:  Ammonium sulphate pounds.  Coal tar gallons Gas, illuminating cubic feet. Gas coke short tons Iron ores long tons. Iron, pig do. Lime short tons Mineral waters gallons sold	771, 900 2, 111, 983 834, 691, 210 134, 670 21, 735, 182	\$1, 499, 386 59, 724 54, 823 842, 599 569, 964 35, 895, 001 (b) 81, 093 132, 970	25, 364, 077	\$1,603,279  \[ a 1,679,821 \] 51,799,250 (c) 93,555 175,677
Mineral waters gallons sold. Sand and gravel short tons. Stone. Other products.	7, 681, 650 109, 576	71,375 1,331,949 ¢766,491	8, 621, 979 145, 020	77, 941 1, 543, 817 c 3, 892, 104
Total		41, 305, 375		60,865,450

 $^a$  Estimated.  $^b$  Included under Miscellaneous.  $^c$  Includes in 1905: Cement, coke, feldspar, pottery, and sand-lime brick. Includes in 1906: Natural cement, coke, corundum, feldspar, pig iron, pottery, and sand-lime brick.

#### MISSISSIPPI.

Clay products	\$818,897		\$851,080
Coal frontess.  Coal targallons  Gas, illuminating	(a)	,	(a) (a)
Gas coke short tons.	(a)		(a)
	53,347	254, 279	52,820
Sand and gravelshort tons	6,320 2,035 (b)	68, 563	33, 260
Other products			17,399
Total	874,279		954, 559

a Included under Louisiana.

b Included under Miscellaneous.

# MISSOURI.

Barytesshort tons	26, 761	\$84,095	28, 869	\$93,479
Clay	172,724	322, 425	165, 258	365, 793
Clay products	and the same of th	6, 203, 411		6,696,275
Coalshort tons	3,983,378	6, 291, 661	3,758,008	6, 118, 733
Coke	1,580	4,072	0,100,000	)
Ammonium suiphatepounds	784, 433	56, 597		
Coal targallons	2, 486, 575	86, 515		a 2, 353, 063
	1, 672, 955, 701	1, 556, 117		( 2,000,000
		439, 920		
Gas cokeshort tons	124,886	(b)	54, 347	10 400
Copperpounds	100 407			10, 489
Glass sandshort tons	123, 467	66, 401	101,862	65, 393
Iron oreslong tons	113,012	161,878	80, 910	158, 109
Iron, pigdo		(b)		(c)
Leadshort tons		(9)	111,075	12, 662, 550
Limedo	186, 173	787,069	207,334	916, 693
Mineral watersgallons sold	470,750	77, 480	618, 400	96, 545
Natural gas		7,390		7,210
Petroleumbarrels			d 3, 500	4,890
Sand and gravel short tons	1,961,873	668, 153	2,962,796	970, 985
Silverfine ounces (troy)	e 12,900	7,869	e 31, 268	20,950
Stone		2, 446, 429		2, 159, 294
Sublimed white lead short tons			7,988	958, 440
Zine do	11,844	1,397,592	130,348	15, 902, 456
Other products		c 2, 378, 694		c 5, 934, 970
Other Produces		-,510,002		-, - o a, o i o
Total		23,043,768		55, 496, 317
***************************************			Translation of the said	, , , , , , , , , , , ,

a Estimated.
b Included under Miscellaneous.
c Includes in 1905: Cement, grindstones, infusorial earth, petroleum, pigments (unclassified), and zinc white. Includes in 1906: Portland cement, grindstones, infusorial earth, litharge, pig iron, red lead, Venetian red, white lead, zinc lead, and zinc white.
d Includes Michigan.
e From smelter reports.

#### MONTANA.

	1905.		1906.	
Product.	Quantity.	Value.	Quantity.	Value.
Clay short tons.  Clay products  Coal short tons.  Coal short tons.  Coal tar gallons  Gas, illuminating cubic feet  Gas coke short tons.  Copper pounds.  Gold (mines report) fine ounces (troy)  Lead short tons.  Lime do  Sand and gravel do  Silver (mines report) fine ounces (troy)  Stone.  Zinc short tons.	5, 546  1, 643, 832 31, 482  314, 750, 582 213, 913, 75 2, 097 4, 073  13, 231, 300	\$33, 983 313, 006 2, 823, 350 211, 351 (a) (a) (a) 48, 786, 340 4, 794, 083 199, 215 22, 436 7, 991, 705 274, 669 (b) (c) (c) (d)	1,615  1,829,921 38,182  294,701,252 216,188,56 2,485 4,745 2,000 11,980,705  1,415	\$3, 598 297, 299 3, 240, 357 266, 024 (a) (a) (56, 877, 341 4, 469, 014 283, 299 30, 098 8, 027, 077 292, 544 172, 636 (166, 391
Total		65, 501, 049		74, 126, 56

#### NEBRASKA.

	\$1,006,743		\$990, 708
82,393	2, 426		
4,916	26, 135		a 123, 336
1,832 12,900	8,200	177, 417	38, 308
	(c) 225, 239		283, 280 d 617, 468
	1,357,846		2,053,100
	65, 553, 100 4, 916 1, 832	82, 393 2, 426 65, 553, 100 83, 563 4, 916 26, 135 1, 832 b 5, 540 12, 900 8, 200 (e) 225, 239	82,393 2,426 83,563 14,916 26,135 12,900 8,200 177,417 (c) 225,239

# NEVADA.

Coalshort tons		(a)	800	\$5,700
Coal tar gallons cubic feet. Gas, illuminating cubic feet. Gas coke short tons	89, 226 62, 522, 700 4, 017	b \$3, 496 b 114, 953 b 26, 348		c 159, 276
Copper pounds Gold (mines report) fine ounces (troy)	413, 292 254, 927, 51	64,060 5,269,819	1,090,635 506,520.31	210, 493 10, 470, 704
Lead	2,096	199,025	1,669 150	190, 266 1, 600
Saltbarrels Silver (mines report)fine ounces (troy)	6, 482, 081	3,915,177	11,249 6,770,612	6, 420 4, 536, 310
Stone long tons long tons. Zine short tons		(d) 1,500	1,768	5, 000 (e) 215, 696
Other productssnort tons.		€ 279,007	1, 100	e 189, 198
Total		9, 873, 385		15, 990, 663

<sup>&</sup>lt;sup>a</sup> Included under Nevada.
<sup>b</sup> Included under Miscellaneous.
<sup>c</sup> Includes in 1905: Abrasive corundum, grindstones, gypsum, iron ores, mineral waters, molybdenum, pottery, and tungsten. Includes in 1906: Arsenic, grindstones, gypsum, iron ores, mineral waters, molybdenum, pottery, precious stones, and tungsten.

<sup>&</sup>lt;sup>a</sup> Estimated.
<sup>b</sup> Includes Idaho and South Dakota. \*
<sup>c</sup> Included under Miscellaneous.
<sup>d</sup> Includes in 1906: Litharge, mineral waters, pumice, red lead, sand-lime brick, and white lead.

a Included under Idaho.
b Includes Montana and New Mexico.
c Estimated.
d Included under Louisiana.
c Includes in 1905: Clay products, graphite, gypsum, iron ores, and salt. Includes in 1906: Antimony, clay products, graphite, gypsum, iron ores, sulphur, tungsten.

#### NEW HAMPSHIRE.

44	1905.		1906.	
Product.	Quantity.	Value.	Quantity.	Value.
Clay products		\$554,734		\$726,051
Coal products: Ammonium sulphatepounds. Coal targallons. Gas, illuminating cubic feet. Gas coke short tons.	$\begin{array}{r} 69,586 \\ 265,556 \\ 190,765,514 \\ 14,095 \end{array}$	a 3, 578 b 13, 177 b 255, 540 b 74, 863		• 381,873 9,884
Mica	813, 050	197, 350 838, 371	781, 500	230, 650 818, 131
Other products		d 91, 025		d 81, 338
Total		2,028,638		2,247,92

#### NEW JERSEY.

	1	-	1	
Cement, Portlandbarrels	3,654,777	\$2,775,768	3, 423, 648	\$4, 445, 364
Clayshort tons.	440, 645	616, 459	470, 174	680,999
Clay products	110,010	16,699,525	2107212	17, 362, 269
		10,000,020		11,002,200
Coal products:		00 550		
Ammonium sulphatepounds	1, 165, 550	96, 752		
Coal targallons	2, 774, 725	84, 243		a 2, 651, 728
Gas, illuminatingcubic feet	1, 483, 032, 012	1,585,683		2,001,120
Gas cokeshort tons	191, 824	643,984		
CI	65, 673	54,005	102, 658	83,031
Iron oreslong tons	526, 271	1, 269, 374	542, 518	1,570,578
Iron, pigdo	311,039	a 5, 150, 000	379, 390	a 7, 542, 000
Limeshort tons.	40,659	168, 775	42,714	187, 978
Marls do	38,026	b 16, 494	19,104	7,341
Mineral watersgallons sold.	394,060	45, 397	585, 215	
Sand and gravelshort tons.	1,236,870	749,344	1,516,804	875, 284
Slate		5,360		
Stone		1, 276, 781		1, 394, 393
Zineshort tons		(c)	11,206	1, 367, 132
Other products		d 628, 177	774777	d 1, 449, 46
other products		0.020,111		- 1, 310, 100
m. +-1		21 040 101		20 054 60
Total		31, 842, 121	*********	39, 854, 693

# NEW MEXICO.

Clay products		\$141,722		\$152,599
Coalshort tons	1,649,933	2, 190, 231	1,964,713	2, 638, 986
Cokedo	89,638	253, 229	147,747	442, 712
Gas, illuminatingcubic feet		(a)		(a)
Gas cokeshort tons	5, 334, 192	(a) 826, 800	7,099,842	(a) 1,370,270
Gold (mines report)fine ounces (troy)	15, 359, 56	317, 510	14,174.80	293, 019
Leadshort tons.	1,170	111,055	640	72,960
Limedo	400	2, 625	1,790	9,975
Mineral watersgallons sold	75,500	16,020	94,000	17, 700
Precious stones				16,000
Sand and gravelshort tons	920 100	222, 992	1,250	1,500
Silver (mines report)fine ounces (troy) Stone	369, 192	110, 922	491, 127	329, 055 168, 567
Zincshort tons.		(b)	555	67, 710
Other products		c 189,008		c 224, 197
Total		4, 382, 114		5, 805, 250

a Includes Maine.
b Includes Vermont.
c Estimated.
d Includes in 1905: Mica, pottery, and whetstones. Includes in 1906: Pottery, precious stones, whetstones.

a Estimated.
b Includes Virginia.
c Included under Miscellaneous.
d Includes in 1905: Slag cement, coke, metallic paint, pigments (unclassified), pyrite, sand-lime brick, talc. Includes in 1906: Slag cement, coke, lithophone, quartz (flint), sand-lime brick, talc and soapstone, white lead.

a Included under Nevada.
 b Included under Miscellaneous.
 c Includes in 1905: Gypsum, iron ores, mica, and salt. Includes in 1906: Clay, gypsum, iron ores, mica, salt, tungsten.

# NEW YORK.

P 1 4	1905		190	06.
Product.	Quantity.	Value.	Quantity.	Value.
Cement, natural barrels.  Portland do Clay short tons. Clay products. Coal products:  Ammonium sulphate pounds.		\$1, 332, 809 2, 044, 253 18, 161 14, 486, 347 171, 946	1,515,866 2,414,362 6,864	\$1,055,785 2,725,744 9,933 13,876,607
Coal tar gallons Gas, illuminating cubic feet Gas coke short tons. Feldspar do	7, 349, 569 5, 004, 667, 394 423, 167	189, 866 5, 090, 057 1, 335, 345 (a)		d 7, 465, 935
Flint	3, 165	(b) 3, 115 771, 138 3, 197, 919	1,500	1,200 749,896 2,635,639
Iron, pig. do Lime. short tons. Metallic paint and mortar colors. do	7, 159	d 19, 940, 000 490, 845 76, 990 25, 915	1,552,659 114,620 7,106	d 31, 022, 000 519, 858 79, 060 28, 848
Mineral waters. gallons sold Natural gas. Petroleum barrels.	5,619,878	652, 680 623, 251	6, 481, 074	672, 798
Petroleum barrels. Pyrite long tons. Salt barrels Sand and gravel short tons. Sand-lime brick	1, 117, 582 11, 935 8, 359, 121 3, 587, 590	1, 557, 630 39, 883 2, 167, 931 1, 703, 431 123, 104	1, 243, 517 25, 616 8, 978, 630 4, 077, 985	1,995,377 76,516 2,098,686 1,371,969 191,321
State Stone Tale, fibrous Other products short tons.		66, 646 5, 364, 222 445, 000 c 3, 137, 803	61,672	72, 360 5, 596, 053 557, 200 c 19, 174, 650
Total		65, 056, 287		92, 870, 90

# NORTH CAROLINA.

Barytesshort tons	5, 519	\$21,545	(a) 12,010	(a)
Claydo	11,095	86, 141	12,010	\$90,358
Clay products		1,020,161		1, 182, 338
Coal tar gallons	74, 503	(a)		
Coal tar gallons Gas, illuminating cubic feet.	58,848,230	4, 355 86, 011	*********	b 131, 580
Gas eokeshort tons.	5, 373	29, 253		0 131, 380
Copperpounds	0,010	(c)	582, 209	112, 366
Flintshort tons	38, 368	d 30, 659	002,200	(e)
Gold (mines report)fine ounces (troy)	6,080	125, 685	3, 973, 16	82, 131
Iron oreslong tons	56,282	73, 540	56,057	75, 638
Limeshort tons	1,792	7,980	5,896	41, 468
Mica		88, 275		217, 696
Millstones	***************************************	2,522		
Mineral waters gallons sold bounds.	181,000	33,744	156, 352	31, 413
Monazite and zirconpounds Precious stones	1, 352, 418	1163,908	698, 375	125, 758 5, 000
Sand-lime brick.		29, 103		32, 975
Silver (mines report)fine ounces (troy)	20, 230	12, 219	30, 769	20, 613
Stone	20,200	585, 561		812, 961
Tale and soapstoneshort tons	(a)	(a)	4,009	66, 729
Other products		e 158, 941		e 33, 821
Total		2, 486, 063		3, 062, 847

<sup>□</sup> Included under Connecticut.

□ Included under North Carolina.

□ Includes in 1905: Aluminum, slag cement, coke, emery, abrasive garnet, graphite, infusorial earth, shale, and sienna. Includes in 1906: Aluminum, aluminum salts, slag cement, coke, emery, feldspar, fuller's earth, abrasive garnet, graphite, infusorial earth, litharge, orange mineral, quartz (flint), red lead, sandstone, shale, sienna, and white lead.

□ Estimated.

a Included under Georgia.

b Estimated.
c Included under Miscellaneous.
d Includes New York.
c Includes in 1905: Abrasive corundum and garnet, graphite, iron ores, sand and gravel, and talc.
Includes in 1906: Barytes, graphite, quartz (flint), millstones, sand, and gravel.
f Includes South Carolina and South Dakota:

# NORTH DAKOTA.

Product.	1905.	1906.		
	Quantity.	Value.	Quantity.	Value.
Clay products.  Coal	317, 542	\$232, 432 424, 778 (a) (a) (a) (a) 1, 055 b 7, 215	305,689	\$269, 873 451, 385 (a) (a) (a) (b) 10, 506
Total		665, 480		731, 803

. a Included under Utah. b Includes in 1905; Cement, clay, and mineral waters. Includes in 1906; Natural cement, clay, and mineral waters.

#### оню.

Brominepounds		(a)		(6)
Cement, Portlandbarrels	1,312,977	\$1,390,481	1, 422, 901	\$1,709,918
Clayshort tons.	239,718	217, 302	248, 995	251, 301
Clay products		28, 303, 039		31,014,165
Coalshort tons.	25, 552, 950	26, 486, 740	27, 731, 640	30, 346, 580
Cokedo	277, 130	970, 897	293, 994	1,013,248
Ammonium sulphatepounds.	1, 117, 271	88, 243		1
Coal targallons.	8, 479, 198	270, 325		AF FOA 104
Gas, illuminating cubic feet.	4, 728, 777, 755	3,280,672		c 5, 594, 184
Gas cokeshort tons.	497, 208	1, 446, 382	*********	
	76, 460		71,329	71.246
Grindstones and pulpstones		644, 315		644, 720
ron ores long tons. Iron, pig do	19,989	26, 624	17,384	
Iron, pigdo	4, 586, 110	c 75, 530, 000	5, 327, 133	c105, 244, 000
Limeshort tons.	327, 373	1,056,721	331,972	1,100,133
Metallic paint and mortar colorsdo	1,589		(a)	(a)
Mineral watersgallons sold.	943, 114		1,790,767	164,007
Natural gas		5, 721, 462		7, 145, 809
Oilstones and whetstones.				46,042
Petroleumbarrels.	16, 346, 660	17, 054, 877	14,787,763	16, 997, 000
Pyritelong tons.	8,944	32,770	4,732	14, 439
Saltbarrels	2, 526, 558	565, 946	3, 236, 785	
Sand and gravelshort tons.	2, 205, 379	1,033,763	2, 352, 945	1, 183, 196
Sand-lime brick		14,058		10, 184
Stone				4, 451, 683
Other products		6 255, 736		b 2, 156, 132
Total		169, 203, 710		209, 976, 930

 $^o$  Included under Michigan.  $^b$  Includes in 1905: Cement, gypsum, and oilstones. Includes in 1906: Aluminum salts, bromine, gypsum, litharge, natural cement, metallic paint and mortar colors, orange mineral, red lead, slag cement, and white lead.  $^o$  Estimated.

# OKLAHOMA.

		1 1	
Clay products	\$222,064		\$241, 111
Coal targallons.	(*)		(a)
Gas, illuminating cubic feet	(a) (a)		(a) (a)
Lime. do 400 Natural gas	4,000	120	1,500 259,862
Petroleum barrels.	(6)	c21, 718, 648	c 9, 615, 198
Saltdo(a) Stone	(a) 195, 246	9,893	4, 965 186, 454
Other products	d 202, 023		d 377, 150
Total	623, 333		10, 686, 240

<sup>a</sup> Included under Indian Territory. <sup>b</sup> Included under Kansas. <sup>c</sup> Includes Indian Territory and Kansas. <sup>d</sup> Includes in 1905: Gypsum, mineral waters, salt, and sand and gravel. Includes in 1906: Gypsum, mineral waters, and sand and gravel.

#### OREGON.

Day June	1905.		1906.	
Product.	Quantity.	Value.	Quantity.	Value.
Clay products		\$380,575	N M M	\$506, 192
Coalshort tons.	109, 641	282, 495	79,731	212, 338
Coal targallons	21,452	2, 145		
Gas, illuminating	18, 131, 200	39,675		a 55, 842
Gas coke	1, 327	8, 946 (b)	545, 859	105, 351
Gold (mines report)fine ounces (troy)	67, 978. 23	1,405,235	66, 123, 79	1,366,900
Leadshort tons	01/070180	(b)		
Limedo	7,886	74, 745	3,934	32, 388
Mineral watersgallons sold	33, 085	8, 107	30,850	12, 52
Platinum fine ounces (troy) Quicksilver flasks	43	2,000 1,677	3	109
Sand and gravel	40	1,011	246, 250	107, 644
Silver (mines report)ounces	90, 636	54, 744	79, 346	53, 162
Stone		95, 159		92, 391
Other products		c 86, 470		c 95, 566
Total		2, 441, 973		2,640,406

#### PENNSYLVANIA.

	1			
Cement:				
Naturalbarrels	748, 057	\$306, 555	744, 403	\$560, 534
Portlanddo	13, 813, 487	11, 195, 940	18,645,015	18, 598, 439
Clayshort tons		406, 388	386,038	572, 33
Clay products		19, 124, 553		21, 774, 61
Coal:		***************************************		
Anthracitelong tons	69, 339, 152	141, 879, 000	63,645,010	131, 917, 69
Bituminousshort tons	118, 413, 637	113, 390, 507	129, 293, 206	130, 290, 65
Cokedo	20, 573, 736	42, 253, 178	23, 060, 511	54, 184, 53
Ammonium suiphatepounds	5, 880, 172	620, 068	20,000,011	01, 101, 00
			*********	
Gas, illuminating	14, 249, 781	319, 201		c 7,822,54
	3,910,669,305	2, 268, 505	**********	
Gas cokeshort tons	1, 374, 815	3, 903, 634		100 00
eldspardo		(a) (a)	18,467	132, 23
lintdo				(b)
llass sanddodo	361, 829	482, 937	342, 967	510, 91
ron oreslong tons		1,060,162	949, 429	1, 246, 26
ron, pigdo	10, 579, 127	c 177, 090, 000	11, 247, 869	c225, 970, 00
imeshort tons	620, 018	1,672,267	624,060	1,857,75
letallic paint and mortar colors do	8,596	123, 570	11,021	136, 08
lillstones		1, 351		2,62
lineral watersgallons sold	1, 322, 594	194, 113	1,506,286	280, 05
atural gas		19, 197, 336	3,000,000	18, 558, 24
chershort tons.	7,789	72, 360	8,597	79, 24
etroleum barrels		14,653,278	10, 256, 893	16, 596, 94
and and gravelshort tons	3, 666, 975	1,753,372	4, 889, 908	1,969,90
and-lime brick.	0,000,510	63, 226	4,000,000	62, 92
late				
tone		3, 491, 905		
		7,956,177		8, 804, 77
mbershort tons.		9,704		10,000
Other products		b 6, 339, 386		b 11, 952, 33
Total		569, 828, 673		657, 413, 78

<sup>&</sup>lt;sup>a</sup> Estimated.

<sup>b</sup> Included under Miscellaneous.

<sup>c</sup> Includes in 1905: Gypsum, nickel ore, pottery, and sand-lime brick. Includes in 1906: Clay, gypsum, nickel and cobalt, platinum, and pottery.

<sup>&</sup>lt;sup>6</sup> Included under Maryland.

<sup>6</sup> Includes in 1905: Aluminum, slag cement, abrasive garnet, graphite, pigments (unclassified), crystalline quartz, salt, shale, sienna, talc, and zinc white. Includes in 1906: Aluminum, aluminum salts, bromine, slag cement, abrasive garnet, graphite, lithargo, lithophone, orange mineral, crystalline quartz, quartz (flint), red lead, salt, shale, sienna, talc, Venetian red, white lead, zinc white.

<sup>e</sup> Estimated.

# RHODE ISLAND.

MADE OF THE STATE	1905.		1906.	
Product.	Quantity.	Value.	Quantity.	Value.
Clay products		(a)		(b)
Ammonium sulphate pounds Coal tar gallons Gas, illuminating cubic feet Gas coke short tons	262, 786 710, 069 490, 466, 400 34, 868	c \$8,868 20,400 548,633 135,018		d \$784, 210
Graphite	6, 461 210, 830	(e) 42, 743 15, 469 556, 664	7, 003 220, 770	(b) 54, 569 16, 161 623, 490
Other products Total		1, 327, 795		b 237, 179 1, 715, 609

a Included under Connecticut.
b Includes in 1906: Clay products, graphite, and talc.
c Includes Connecticut.
d Estimated.
c Included under Miscellaneous.

# SOUTH CAROLINA.

Clayshort tons	45, 595	\$146,790	44,665	\$175,351
Clay products	20,000	749, 835	11,000	830, 481
Coal products:		120,000		000, 202
Coal targallons	158, 361	5, 315		
Gas, illuminatingcubic feet	116, 931, 170	159, 709		a 228, 817
Gas cokeshort tons	11,823	42,992		
Gold (mines report) fine ounces (troy)	4,601	95, 111	3,819.63	78,959
Limeshort tons.	7,955	34, 440	7, 134	34,719
Mineral watersgallons sold.	858, 830	78,837	1,458,494	348,744
Monazite pounds		(b)	148,900	26,802
Phosphate rocklong tons.	270, 225	878, 169	223,675	817,068
Silver (mines report)fine ounces (troy)	111	67	92	62
Stone		297, 284		258, 398
Other products		c 5, 908		707
Total		2, 494, 457		2,800,108

a Estimated. b Included under North Carolina. c Includes in 1905: Sand and gravel and sand-lime brick.

## SOUTH DAKOTA.

Clay products		\$58,271		\$58,175
Gold (mines report)fine ounces (troy) Leadshort tons	338, 116, 70	6,989,492	330,956.06	6,841,469
Lime	4, 165	26,308 15,200	3,666	23,930 15,400
Precious stones		(c)		4,000
Silver (mines report)fine ounces (troy) Stone	182,749	110,381 200,061	150,875	101,086 145,966
Other products		d 171, 860		d 319, 881
Total		7,571,573		7,509,907

Gincluded under North Carolina.
Lincluded under Miscellaneous.
Lincluded under Nebraska.
Lincludes in 1905: Cement, clay, copper, gypsum, mica, mineral waters, pyrite, sand-lime brick, and tungsten. Includes in 1906: Portland cement, clay, gypsum, lithium minerals, mica, mineral waters, sand-lime brick, and tantalum.

#### TENNESSEE.

Barytes short tons clay do clay do clay products.  Coke do Ammonium sulphate pounds coal tar gallons das illuminating cubic feet das coke short tons.  Copper pounds short tons copper short tons copper short tons copper fluorspar short tons cod dimines report) fine ounces (troy).	Quantity.  a 9, 487 67, 531  5, 766, 690 468, 092 91, 794 721, 411 430, 175, 200	Value.  \$15,325 94,201 1,493,279 6,577,881 1,184,442 5,135 29,663	Quantity.  5,247 58,938 6,259,275 483,428	Value. \$8,782 104,397 1,620,226 7,667,415
Clay	5, 766, 690 468, 092 91, 794 721, 411 430, 175, 200	94, 201 1, 493, 279 6, 577, 881 1, 184, 442 5, 135	58, 938 6, 259, 275	104, 397 1, 620, 226
Clay	5, 766, 690 468, 092 91, 794 721, 411 430, 175, 200	1, 493, 279 6, 577, 881 1, 184, 442 5, 135	58, 938 6, 259, 275	104, 397 1, 620, 226
Coal	468, 092 91, 794 721, 411 430, 175, 200	6, 577, 881 1, 184, 442 5, 135		
Coke	468, 092 91, 794 721, 411 430, 175, 200	1, 184, 442 5, 135		7 667 415
Ammonium sulphate pounds.  Coal tar gallons. Gas, illuminating cubic feet. Gas coke short tons.  Copper pounds. Fluorspar short tons. Gold (mines report) fine ounces (troy).	91, 794 721, 411 430, 175, 200	5, 135	483, 428	
Coal tar. gallons. Gas, illuminating cubic feet. Gas coke short tons. Copper. pounds. Fluorspar short tons. Gold (mines report) fine ounces (troy).	721, 411 430, 175, 200		A TOTAL OF THE PARTY OF THE PAR	1,350,850
Gas, illuminating. cubic feet. Gas coke short tons. Copper. pounds. Fluorspar. short tons. Gold (mines report) fine ounces (troy).	430, 175, 200	29, 663		
Gas coke. short tons. Copper pounds. Fluorspar short tons. Gold (mines report) fine ounces (troy).				d 665, 836
Copper pounds Gold (mines report) fine ounces (troy)		434, 718		1002, 000
Fluorsparshort tons Gold (mines report)fine ounces (troy)	39, 159	135, 790	***********	
Gold (mines report)fine ounces (troy)	***************************************	(b)	17, 809, 442	3, 437, 222
dord (mines report)nne ounces (troy)	260	1,720		(c)
	211	4,362	234.06	4,838
Iron oreslong tons	734,770	918, 850	370,734	1,307,433
Iron, pigdo	372, 692	d 5, 260, 000	426, 874	d 7, 251, 000
Lime		050 000	11	1,25
	75, 667	252,908	83,047	307, 16
Manganese oreslong tons	20	100	30	300
Metallic paints and mortar colors short tons	5,035	36,380		(e)
Mineral watersgallons sold	1,254,018	135, 861	411,698	58, 47
Natural gas		(6)		300
Petroleum barrels long tons long ton	400 050		F AM OMM	(c)
Sand and gravelshort tons	482, 859	1,633,389	547,677	2,147,991
Sand-lime brick	414, 478	157, 594	632,006	259,063
Silver (mines report)fine ounces (troy)	07 700	(b) 57,695	EE 021	(e) 37,47
Stone	95, 522		55,931	
		992, 566	124	1, 131, 909 15, 128
Other productssnort tons		(b)	124	6 67, 210
other products				007,210
Total		19, 441, 859		

## TEXAS.

Asphalt			24,900	\$306,750
Clay products		\$1,718,945		1,969,598
Coalshort tons.	1,200,684	1, 968, 558	1,312,873	2, 178, 901
Coal targallons	236, 341	15, 140		
Gas, illuminatingcubic feet.	166, 917, 672	253, 566		a 355, 560
Gas cokeshort tons.	11,984	54, 531		
Copperpounds			51,377	9,916
Gold (mines report)fine ounces (troy)	12	248	6 77	1,592
fron oreslong tons		(c)	36,660	36,660
fron, pigdo		(d)		(c)
Leadshort tons		(d)		
limedo	31,984	142, 470	41, 183	192, 527
Mineral watersgallons sold.	1,526,970	144, 421	1,045,315	122, 085
Natural gas	************		*********	e 150, 695
Petroleumbarrels	28, 136, 189	7,552,262	12, 567, 897	6,565,578
Quicksilverflasks	4,723	173, 362	4,761	178,829
Saltbarrels	444, 832	142, 993	360,733	170,559
Sand and gravelshort tons.	363, 085	146, 462	314, 110	159, 367
Silver (mines report) fine ounces (troy)	387, 506	234, 054	301,772	202,187
Stone		427, 321		518,719
Zineshort tons			8	976
Other products	***************************************	c 778, 013		c 1, 630, 538
Total		13, 752, 346		14,751,037

G Includes small production from Kentucky.

b Included under Miscellaneous.

c Included under Kentucky.

d Estimated.

c Includes in 1906: Metallic paint and mortar colors, sand-lime brick, and Venetian red.

a Estimated.

b From smelter reports.

c Includes in 1905: Cement, clay, gypsum, iron ores, natural gas, and sand-lime brick. Includes in 1906: Natural cement, Portland cement, clay, gypsum, pig iron, and sand-lime brick.

d Included under Miscellaneous.

f Includes Alabama and Louisiana.

# UTAH.

Don Just	1905.		1906.	
Product.	Quantity.	Value.	Quantity.	Value.
Clay do	11, 421		12, 947 4, 713	\$159,960 11,416
Clay products	1,332,372	544,578 1,793,510 (a)		634, 444 2, 408, 381 (b)
Coal targallonsgas, illuminatinggubic feet	85, 458 108, 204, 812	c 6, 830 c 166, 705		d 128, 100
Gas coke short tons. Copper. pounds. Gold (mines report) fine ounces (troy).	7, 642 58, 153, 393 248, 692	6 42, 923 9, 013, 776 5, 140, 920	50, 329, 119 252, 439, 42	9,713,520 5,218,380
Lead short tons Lime do Manganese ores long tons.	42,746 12,765	4, 160, 870 69, 089	56, 260 17, 461 800	6, 413, 64 86, 51 10, 00
Precious stones	1,050		1,164	2,50 48,88
Salt barrels. Silver (mines report) fine ounces (troy).	177,342 11,036,471	135, 465 6, 666, 028 290, 728	262,212 11,550,634	169, 63 7, 738, 92 292, 74
		(e) (a)		(b)
Zinedo Other products		b 281, 837	2,449	298,77 b 1,832,65
Total		28, 447, 799		34, 998, 85

a Included under Colorado.
b Includes in 1905: Cement, gypsum, iron ores, pottery, and sand and gravel. Includes in 1906: Antimony, Portland cement, coke, gypsum, iron ores, mineral waters, sand and gravel, and sulphur.
c Includes Idaho, North Dakota, and Wyoming.
d Estimated.
c Included under Louisiana.
f Included under Miscellaneous.

## VERMONT.

Clay	(a) \$112,967	5, 392	\$37,325 112,368
Coal tar. gallons. Gas, illuminating cubic feet. Gas coke short tons	(b) (b) (b)		(b) (b) (b)
Copper         pounds           Lime         short tons         39,62           Mineral waters         gallons sold         73,00           Sand and gravel         short tons         86,52           Silver (mines report)         fine ounces (troy)	$\begin{pmatrix} (c) \\ 188,921 \\ 20,550 \end{pmatrix}$	11, 694 32, 755 77, 500 81, 587 1, 323	2, 257 167, 393 22, 150 11, 612 886
Slate. Stone. Tale and soapstoneshort tons. Other products.	1, 352, 541 6, 993, 765 (a) a 118, 555	10,413	1,441,33 7,526,46 101,05 a 29,66
Total	8,797,834		9, 452, 50

a Includes in 1905: Clay, ocher, talc, and whetstones. Includes in 1906: Metallic paint, ocher, whetstones.

b Included under New Hampshire.
c Included under Miscellaneous.

# VIRGINIA.

			1906.	
Product.	Quantity.	Value.	Quantity.	Value.
Arsenicpounds		(a) \$27,838		
Barytes short tons.	6,468	\$27,838	11,775 2,903	\$45, 336 24, 354
Clay products		1,994,578	2,000	1, 966, 078
Coalshort tons.	4, 275, 271	3,777,325	4, 254, 879	4, 183, 991
Cokedodo	1, 499, 481	2,869,452	1,577,659	3, 611, 659
Coal targallons	691,530	(b) 21, 152		
Gas, illuminatingeubic feet	420, 420, 478	485, 368		e 685, 738
Gas cokeshort tons	32,422	116, 879		0000, 100
Copperpounds Gold (mines report)fine ounces (troy)	241	(a) 4, 982	717.50	14, 832
fron oreslong tons	241	(d)	828, 081	1,579,817
Iron, pigdo	510, 210	c 7, 540, 000	483, 525	c 8, 591, 000
Leadshort tons		(a)		200 000
Limedolong tons	114, 221 3, 947	396, 434 35, 209	104,486 6,028	382, 083 77, 522
Marlshort tons		(e)	0,020	11,022
Millstones		8, 186		- 15, 611
Mineral watersgallons sold	2, 340, 287	549, 102	1,997,207	418, 908
Precious stoneslong tons	123, 183	426,008	128,794	431,388
Sand and gravelshort tons	351, 115 177	154, 580	335, 178	121, 951
Silver (mines report) fine ounces (troy)		107	250	168
Slate		146, 786		172, 857 606, 343
Stoneshort tons		667, 050 (d)	23,624	590, 800
Zincdo			1,143	139, 446
Other products		d 2,530,950		d 990, 432
Total		21 751 086		24, 650, 814

# WASHINGTON.

Arsenicpounds		(a)		
Clay products		\$1, 175, 032		\$1,499,884
Coalshort tons.	2, 864, 926	5, 141, 258	3, 276, 184	5, 908, 434
Cokedo	53, 137	251, 717	45,642	226, 977
Ammonium sulphatepounds		(b)		
Coal targallons.	465, 380	32, 268		
Gas, illuminatingcubic feet	359, 180, 276	459, 103		c 660, 443
Gas cokeshort tons	28,006	109, 032	*********	
Dopperpounds	223, 328	34, 616	290, 823	56, 129
Gold (mines report)fine ounces (troy)	19, 595. 63	405, 078	10,722.22	221, 648
Leadshort tons	53	5, 035	46	5, 244
.imedo	27, 935	160, 985	59,094	347, 924
fineral watersgallons sold	30,000	10, 101	39,500	10,800
Sand and gravelshort tons			293, 571	144, 723
Silver (mines report)fine ounces (troy)	125, 376	75, 727	45,878	30, 738
stone		919, 110	**********	738, 652
Zineshort tons			7	854
Other products		7 11, 482	·····	d 83, 691
Total		8, 790, 544		9,936,143

<sup>&</sup>lt;sup>a</sup> Included under Miscellaneous.
<sup>b</sup> Included under West Virginia.
<sup>c</sup> Estimated.
<sup>d</sup> Includes in 1905: Asbestos, cement, gypsum, iron ores, metallic paint, ocher, pottery, salt, sand-lime brick, tale, and titanium. Includes in 1906: Asbestos, natural cement, Portland cement, gypsum, mica, ocher, pottery, quartz (flint), salt, sand-lime brick, titanium.
<sup>e</sup> Included under New Jersey.

<sup>&</sup>lt;sup>a</sup> Included under Miscellaneous.
<sup>b</sup> Included under Colorado.
<sup>c</sup> Estimated.
<sup>d</sup> Includes in 1905: Sand and gravel, sand-lime brick, and tale. Includes in 1906: Antimony, arsenic, clay, marble, molybdenum, platinum, tungsten.

<sup>21650-</sup>м к 1906-5

# WEST VIRGINIA.

Product.	1905.		1906.	
	Quantity.	Value.	Quantity.	Value.
Brominepounds		(a)		(b)
Clay	81,880	\$52,640 2,018,795	54, 207	\$36, 377 2, 783, 312
Coalshort tons	37, 791, 580 3, 400, 593	32, 341, 790 6, 548, 205	43, 290, 350 3, 713, 514	41, 051, 939 8, 192, 956
Ammonium sulphatepounds Coal targallons	1,002,058 1,766,066	6 86, 530 50, 542		
Gas, illuminating	129, 935, 260 119, 369	102, 855 415, 468		d 720, 934
Glass sand dodo	155, 052	225, 734	158,093	227, 225
Iron, piglong tons	298, 179	d 5, 250, 000	304, 534	21,304 d 6,447,000
Limeshort tons Mineral watersgallons sold	104, 156 90, 728	255, 337 50, 063	98, 447 122, 880	257, 33 57, 46
Natural gas barrels barrels	11, 578, 110	10, 075, 804 16, 132, 631	10, 120, 935	13, 735, 343 16, 170, 293
Saltdoshort tons	202, 151 135, 049	74, 063 86, 161	200, 055 236, 765	57, 584 113, 149
Stone		842, 627 (e)		741,97
Other products.		b 122, 131		b 80, 408
Total		74, 731, 376		90,694,588

 $\alpha$  Included under Michigan. b Includes in 1905: Cement, grindstones, and iron ores. Includes in 1906: Bromine, Portland cement, iron ores.

<sup>c</sup> Includes Virginia.

<sup>d</sup> Estimated.

<sup>e</sup> Included under Miscellaneous.

#### WISCONSIN.

Cement, naturalbarrels.	139, 128	\$63,737 1,382,115		(a) \$1,227,342
Coal products:		2,000,000		
Ammonium sulphatepounds	1,727,733	121, 464		1
Coal targallons.	1,905,217	94, 305		b 3, 352, 287
Gas, illuminatingcubic feet	2, 126, 338, 477	1,579,659		0 3, 352, 281
Gas cokeshort tons	293, 759	1, 252, 106		
Iron oreslong tons.	859, 283	1,718,890	848, 133	2,033,217
Iron, pigdo		b 5, 510, 000		(a)
Leadshort tons		(c)	1,753	199,842
Limedo	214, 872	726, 071	225, 633	769, 808
Mineral watersgallons sold	6, 656, 834	1, 454, 715	8, 252, 718	2, 422, 69
Sand and gravelshort tons	181,946	96, 288	301,610	171, 474
Stone		1,791,447		36,850 1,871,945
Zine short tons		(e)	11,057	1,348,954
Other products		a 1, 013, 814	11,007	a 8, 371, 362
Total		10 004 011		01 005 77
10tal		16, 804, 611		21, 805, 77

<sup>&</sup>lt;sup>a</sup>Includes in 1905: Cement, clay, coke, graphite, metallic paint, crystalline quartz, sand-lime brick. Includes in 1906: Natural cement, clay, coke, graphite, metallic paint and mortar colors, pig iron, crystalline quartz, zinc white.

<sup>b</sup>Estimated.

<sup>c</sup>Included under Miscellaneous.

#### WYOMING.

Product.	1905.		1906.	
	Quantity.	Value.	Quantity.	Value.
Clay short tons. Clay products. Coal tar gallons. Gas coke short tons Copper pounds. Gold (mines report) fine ounces (troy). Gypsum barrels Petroleum barrels Precious stones Silver (mines report) fine ounces (troy).	2,530,531 1,293.81 262 8,454	\$34,556 7,336,951 (a) (a) (a) (a) 392,232 26,745 71,560 3,099 51,545	719 6, 133, 994 106, 177 315, 46 396 c7,000	\$3,986 74,321 8,013,528 (a) (a) (a) 20,492 6,521 (b) 4,266 49,000 1,000
StoneOther products		59, 431 6 678, 875		80, 098 5 810, 547
Total		8,657,202		9,063,849

# MISCELLANEOUS PRODUCTS.

METALLIC.	lace and	The same	
Antimony	. \$705,787		
Copper	2,345,919		
ron, pigead	8, 460, 000 9, 890, 640		\$280,212
inc	2,892,534		0400, 214
Total	24, 294, 880		280, 212
NONMETALLIC:			
Jum and aluminum sulphate, arsenic	1,985,441		
'uller's earth	214, 497		
as, coke, tar, ammonia, graphite, oilstones,	00 1/0		20.000
and mineral waters	39,163		36, 996
recious stones	4 4 4 4 4		
and-lime brick and stone	73, 450		
Thite lead	. 15, 838, 649		
ther lead paints	5,564,236		
Total	. 24,061,202		36,996
Grand total	48, 356, 082		317,208

<sup>&</sup>lt;sup>a</sup> Included under Utah.
<sup>b</sup> Includes in 1905: Asbestos, clay, coke, grindstones, iron ores, mineral waters, natural gas, and sand and gravel. Includes in 1906: Asbestos, coke, grindstones, gypsum, iron ores, mineral waters, sand and gravel, and sulphur.
<sup>c</sup> Estimated.