BULLETIN XVI. FIFTH CENSUS OF CANADA.

MINERAL PRODUCTION OF CANADA FOR THE YEAR 1910 AS ENUMERATED UNDER DATE OF FIRST JUNE, 1911

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Archibald Blue, Chief Officer of the Census and Statistics Office, Ottawa.

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THE CENSUS OF MINERAL PRODUCTION.

The census of the mineral production of Canada taken in June, 1911, for the calendar year 1910 is presented in Bulletin XVI and shows a gratifying expansion in this department of the country's natural resources during the last decade. Compared with the census of 1901 for the year 1900 it shows an increase in the ten years of 849 in the number of mines or works, of \$65,734,248 in the value of buildings and plant, of 31,442 in the number of persons employed, of \$24,597,877 in the earnings of salaries and wages and of \$74,048,070 in the value of production as presented in the following statement for the two census years, together with the increase in totals and the increase per cent in the decade.

Summary of mineral production.

Schedule.		1900.	1910.	Increase	in
		,	1010.	Totals.	per cent.
Mines or works Value of buildings and plant Employees on salaries. Salaries. Employees on wages. Wages Value of production.	\$ NO. \$ NO.	1,373 42,771,803 1,527 1,512,821 37,065 16,336,273 47,956,862	\$108,506,051 2,884 3,317,030 67,150 39,129,941	849 65,734,248 1,357 1,804,209 30,085 22,793,668 74,048,070	61 · 84 153 · 68 89 · 86 119 · 26 81 · 16 139 · 53 154 · 40

Table I. shows the quantities and values of the several classes of mineral products in the census year for Canada and for each of the provinces. Coal both as to tonnage and value occupies the first place with a value of \$32,580,841, silver in ore and in combination the second with \$18,899,240, gold the third with \$10,302,973, clay products the fourth with \$9,562,302, nickel the fifth with \$8,276,313, copper the sixth with \$7,581,552, stone the seventh with \$6,372,474 and cement the eighth with \$5,851,066, being respectively $26 \cdot 7$, $15 \cdot 5$, $8 \cdot 4$, $7 \cdot 8$, $6 \cdot 8$, $6 \cdot 2$, $5 \cdot 2$ and $4 \cdot 7$ per cent of the total value of production which was \$122,004,932.

Comparing the value of products by provinces for the census years 1900 and 1910 table 1 shows (1) the value of products, (2) the percentage of the total production for Canada, and (3) the order or rank in production.

TABLE 1. Mineral production by provinces.

Provinces.	Value of pre	oduction.	Per co		Rank in production.	
	1910.	1900.	1910.	1900.	1910.	1900.
Alberta. British Columbia. Manitoba. New Brunswick. Nova Scotia. Ontario. Prince Edward Island. Quebcc. Saskatchewan. Yukon.	10, 515, 074 24, 581, 338 2, 928, 316 1, 087, 113 17, 059, 122 49, 727, 400 12, 320 11, 002, 232 541, 671 4, 550, 346	718, 635 14, 679, 777 216, 830 650, 679 9, 042, 003 10, 417, 576 15, 735 2, 960, 704 9, 163, 443	7·90 18·48 2·20 ·81 12·82 37·38 ·009 9·01 ·47 3·42	1 · 48 30 · 60 · 45 1 · 37 18 · 85 21 · 73 · 04 6 · 18 · 19 19 · 11	5 2 7 8 3 1 10 4 9	6 1 8 7 4 2 10 5 9
Totals for Cañada	122,004,932	47,956,862	· -	-		

It will thus be seen that Ontario takes the lead, British Columbia coming next, while Nova Scotia moves up into third position, displacing the Yukon, Quebec being fourth, the other provinces almost maintaining their relative places in both census years. The growth of Ontario's value of production is mainly accounted for by the opening of the Cobalt silver camp in 1904, which in the census year yielded \$17,637,256 of the total silver output for Canada of \$18,899,240.

Table 2 presents the values of buildings and plant for the census years 1900 and 1910 by classes of ores and products and shows an increased investment of \$65,734,248 in the decade, the percentage of increase being nearly 152.5. In order to make the table comparative only the values of buildings and plant have been used for 1900 as the 1910 census required only the statistics relating thereto. In table 2 is shown for the census years 1900 and 1910 according to classes of ores and products (1) the number of mines or works (2) the value of buildings and plant and (3) the average values of buildings and plant per mine or works.

The ratio of values of buildings and plant to values of products for totals for Canada was 112·12 p.c. in 1900 and 112·44 p.c. in 1910.

TABLE 2. Buildings and plant compared for 1900 and 1910 by classes of ores and products.

Classes of ores and products.	Mine wor		Value of and p	buildings plant.	Average value and plant or we	per mine
	1900.	1910.	1900.	1910.	1900.	1910.
Asbestos. Cement, Portland. Coal and coke. Clay products. Copper ore. Gold ore, lode or vein. Gold, placer. Granite. Gypsum Iron ore. Lime Limestone (dimension). Mica. Mineral water. Miscellaneous. Natural gas. Nickel-copper ore Rubble and other stone. Salt. Sand and gravel. Sandstone. Silver-cobalt ore. Silver-lead ore.	6 77 56 573 200 71 71 19 9 11 163 98 266 85 9 13 6 1 9 81 32 2 35	17 24 223 489 18 40 268 37 19 13 102 26 124 460 110 5 32 9 101 22 44 27	278,000 574,092 25,377,790 4,210,244 795,300 2,770,862 4,996,714 87,990 39,150 768,591; 202,852 208,195; 25,075; 131,100 519,832 368,527 123,188 1 558,192; 17,935; 66,950; 26	10,752,227 5,732,251 1,996,735 9,405,594	46, 333 82, 013 453, 175 7, 349 39, 765 39, 026 70, 376 4, 631 4, 350 69, 872 1, 245 2, 125 964 16, 387 8, 811 28, 348 20, 531 62, 021 2222 2, 092 18, 607	1-52, 108 436, 757 199, 303 21, 988 318, 458 49, 918 35, 095 21, 192 28, 343 110, 692 8, 67, 98 3, 44, 059 298, 891 17, 995 95, 261 3, 808 5, 500 55, 488 82, 952

Table III. shows the number of employees on salaries and wages and the cost of salaries and wages in each class of ores or mineral products. The increase in the number of salaried employees in the decade is 1,357 and in the cost of salaries \$1,804,209 and for employees on wages it is 30,085 with an increase in wages of \$22,793,668, the average of salaries being \$991 in 1900 and \$1,150 in 1910, and of wages \$441 in 1900 and \$583 in 1910. In Table 3 is shown for the principal classes of ores and products for the census years 1900 and 1910, (1) the average number of salaried persons per mine or works of each class (columns 1 and 5); (2) the average salaries per employee in each class of mines or works (columns 2 and 6); (3) the average number of miners or workers per mine or works of each class (columns 3 and 7) and (4) the average cost of wages per mine or works of each class (columns 4 and 8.)

² Not reported in the Census of 1900.

¹ Included with limestone and sandstone in 1900.

TABLE 3. Comparative table of averages of employees, salaries and wages in 1900 and 1910.

•		19	00.	V-4		19	10.	
Classes of ores	Averages of salaried officers.					ages of l officers.	Averages of employees on wages.	
	No. per mine or works.	Salaries per employee.	No. per mine or works.	Wages per employee.	No. per mine or works.	Salaries per employee.	No. per mine or works.	Wages per employee
Asbestos	8·30 5·30 6·10	1,013 950 -	129·00 74·00 256·00 11·70	373 509 198		1,288 1,210 923	183·00 87·00 127·00 19·00	35
Copper ore Gold ore, lode or vein Gold, placer Granite	3.50 3.37 1.24 1.58	1,664 1,345 826 737	57 · 40 51 · 12 8 · 44 37 · 63	608 416 334	5·00 ·75 ·16 ·65	1,899 1,845 1,098	23.00	93 98 47
Gypsum	2·00 4·36 ·32	773 470	40·80 104·00 4·26	205 280	1 · 68 3 · 85 · 80	838	43·90 74·00 9·16	54 40
ension)	1·14 1·77 1·87 2·03 ·77	504 487 742 916	15·15 6·75 21·60 1·00	228 279 339 981	·81 3·50 ·98 ·24	850 1,104 1,068 660	13·10 9·70 16·07 1·70	30 38 47 44
Nickel-copper ore. Rubble and other stone	10·00 1 3·33	746	19.90	1 362		872	20·20 19·80	43
Sand and grayer Sandstone Silver-cobalt ore Silver-lead ore	1·10 2 3·60	, 511	15.91	226	·90 4·00	836 1,650	18·70 6·84	8

It will be seen from the above table with the exceptions of natural gas and silver-lead ore that in the cost of both salaries and wages the increase in 1910 over 1900 is very considerable, which may be accounted for by the increased cost of living that has obtained since 1900.

The highest salary per employee in 1910 was in the gold, lode or vein mines and the lowest was in limestone (dimension), while in 1900 the highest salary was paid to those in the silver-lead mines and the lowest to those employed in lime works. The highest amount paid to workers on wages in 1900 was also in the silver-lead mines and the lowest to those employed in clay products, and in 1910 the highest wage paid was in copper ore mines and the lowest in mica mines.

The decrease in the averages of natural gas and miscellaneous is explained by the much greater number of returns received from natural gas and petroleum wells, the latter being included in the miscellaneous. The number of report from natural gas wells rose from 13 in 1900 to 110 in 1910, and petroleum from which no returns were received in 1900 to no less than 219 in 1910 with a value of production of \$1,303,768. A much greater activity in the silver-lead mining district in 1900 would appear to account for the falling off in this particular industry in 1910.

² Not reported in 1900.

¹ Included with limestone and sandstone in 1900.

Table IV. shows the mineral products of Canada and the provinces for the census years 1900 and 1910 classified by 6 groups, viz., metallic ores and products, abrasive products, fuel and light materials, pigments, structural materials of stone and clay and miscellaneous products. The largest increase in value of products as shown in table (4) was in metallic ores, fuel and light materials being second and structural materials third. The largest percentage of increase was in structural materials the others following in the order named; pigments, abrasive products, miscellaneous products, fuel and light materials and metallic ores.

TABLE 4. Classified groups of mineral products compared for 1900 and 1910.

Groups of products.	Value of pro	oducts		Increase
Circups of products.	1900.	1910.	Increase 1910 over 1900.	per cent 1910 over 1900.
Canada— Metallic ores and products. Abrasive products. Fuel and light materials. Pigments. Structural materials of stone and	25, 161, 151 125, 575 14, 095, 477 18, 822	48, 978, 790 431, 973 37, 514, 108 80, 211	61,389	94 · 66 244 · 00 166 · 21 326 · 16
discellaneous products	6,483,970 $2,071,867$	27,957,600 7,042,250	21,473,630 4,970,383	331 · 18 239 · 90

Table 5 gives the per capita production by groups of classes of ores and products for the years 1900 and 1910 and the percentage of increases in 1910 over 1900.

TABLE 5. Per capita production of mineral products compared for 1900 and 1910. .

Groups of classes of ores and products.	Per capita.	Increase		
croups of classes of ores and products.	1900.	1910.	per cent 1910 over 1900.	
-	8	\$	p.c.	
Metallic ores and products. Abrasive products. Fuel and light materials. Winoral higher orts.	4 · 6843 0233 2 · 6242	6·7963 - 0599 5·2055	45 · 09 156 · 37 98 · 37	
Mineral pigments. Structural materials of stone and clay Miscellaneous products	·0035 1·2072 ·3858	·0111 3·8794 ·9773	217 · 00 221 · 38 153 · 36	
Total	8 · 9283	16.9295	89 62	

It will be observed that the production per capita is greater in 1910 than in 1900 in each of the groups, varying from 45.09 per cent in metallic ores and products to 221.38 per cent in structural materials of stone and clay. The greatest per capita production is in metallic ores in both census years and the lowest in mineral pigments.

Table V. shows for Canada by quantities and values in 1900 and 1910 the various minerals and other products comprised in the various groups of classes of products excluding therefrom the manufacture of cement blocks and tiles, graphite, gypsum, asbestos, mica and petroleum, leaving the total value

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of production at \$112,775,636 in 1910 and \$45,402,602 in 1900. Table 6 gives the totals of values in each of the classes of ores and products, the increase in totals and the increase per cent in 1910 over 1900.

TABLE 6. Values of groups of classes of ores and products.

Groups of classes of ores and	Value of classes product		Increase	Increase per cent	
products.	1900.	1910.	1910 over 1900.	1910 over 1900.	
	\$	\$.	\$	p.c.	
Metallic ores	$25, 161, 151 \\ 13, 070, 434 \\ 18, 822$	48,978,790 37,435,461 80,211		94 · 66 186 · 41 326 · 16	
Miscellaneous products	704, 536 6, 447, 659	3,036,629 23,244,545	2,332,093 16,796,886	331 · 01 260 · 51	
Totals	45,402,602	112,775,636	67,373,034	148 · 38	

Table VI. shows the production of Canada's mineral resources for quantities and values in the census years 1900 and 1910 including manufactures of certain

ores and products which have been eliminated in Table V.

Table VII. gives for quantities and values where available, the exports and imports of mineral products for the years 1910 and 1900. The figures for exports are for the calendar year, and for imports the fiscal year, unless as otherwise stated in footnotes. In many instances quantities are not given, such information not being available, and the spaces in the columns are consequently marked blank.

EXPLANATORY NOTES.

Where ton is used throughout this bulletin, it signifies the short ton, of 2,000 lb, and year signifies calendar year, unless otherwise stated.

Statistics of exports and imports have been compiled from the Trade and

Navigation returns published by the Customs Department.

The term production used throughout this bulletin refers to the quantity sold or marketed during the calendar year, except in the case of certain manufactures of mineral products, which are for the census year.

Values of ores, minerals, etc., are given at the mine or place of production, having no regard to prices in the metal markets, which if applied to lead, nickel, copper, silver and gold, the total values would be materially increased.

METALLIC ORES AND PRODUCTS.

ANTIMONY.

According to the census returns the production of antimony in 1910 was 321 tons of concentrates of the value of \$18,589. There was one mill with a 120 horse-power engine and the value of buildings and plant was \$30,000. The number of persons employed was 52 with a cost for salaries and wages of \$12,400. The aggregaté weeks of working time during the year was 1,009 and the average hours per week 60. There were no returns of antimony ore in 1900 and the output in 1910 was confined to the province of Nova Scotia. The exports and imports of antimony are given in Table VII, pages 41 and 42.

COBALT.

The production of cobalt appears for the first time in the list of minerals and as refineries do not in all cases make returns of this by-product it is difficult to say what is the real quantity recovered from the ores. However, returns received indicate a production of 3,138,275 lbs. valued at \$52,467. Statistics of employees and payments on account of salaries and wages are included with the silver-cobalt production.

COPPER.

The production of copper is derived from the various sources shown in the following summary table for quantities and values in 1900 and 1910.

TABLE 7. Copper production, 1900 and 1910.

	1910.		1900.			
Source.	Quantity.	Value.	Quantity.	Value.		
		\$. \$		
Copper ore	ton 1,632 lb. 429,500	5,236 54,546	ton 106,305 lb. 8,879,364	1,699,560 1,095,753		
Nickel-copper ore	lb. 28,226,123	2,116,931	ton 12,466 lb. 6,728,000	104,304 320,001		
Copper-gold ore	ton 700 lb. 42,504,561	10,500 5,394,339	· -	· -		
Totals	ton 2,332 lb. 71,160,184	15,736 7,565,816	ton 118,771 lb. 15,607,364	1,803,864 1,415,754		

The increase in the value of copper ore and copper in ores, etc. during the decade was \$4,361,934 or more than 135 per cent. The number of employees and their salaries and wages in copper and copper gold mines are presented in the next table for 1910 and 1900.

TABLE 8. Employees on salaries and wages in 1900 and 1910.

	191	10.	1900.		
Classes of ores.	Employees.	Salaries and wages.	Employees.	Salaries and wages.	
	NO.	\$	NO.	\$	
Copper ore	90 - 1,907	46,787 2,220,914	1,218	1,053,973	
Totals:	1,997	2,267,701	1,218	1,053,973	

¹ Included with copper ore in 1900.

Capital invested in buildings and plant in copper and copper-gold mines was \$5,732,251 in 1910, and \$795,300 in 1900. The plant consisted of 2 mills, 5 blast furnaces and 2 refineries in 1910 and of 4 mills, 6 blast furnaces and 3 refineries in 1900. The aggregate time of all employees in 1910 was 99,659 weeks and 60,105 weeks in 1900. The quantity of ore raised was 1,844,588 tons in 1910 against 259,561 tons in 1900. The products of treated ore are given under their several heads. Exports and imports of copper ore, etc., are given in Table VII, pages 41 and 42.

GOLD, LODE OR VEIN.

The production of gold from ores in 1910 is presented in table 9 and shows an increase of \$844,818 in the decade, but the production of gold from all sources in 1910 falls short of that of 1900 by \$4,190,444, which has been accounted for under placer gold.

TABLE 9. Gold, lode or vein production in 1910 and 1900.

1910. Source.

1900. Quantity. Value. Quantity. Value. \$ 1,994,200 2,502,481 112,875 Gold ore, lode or vein... oz. 72,704 1,426,584 202,957 ton Copper-gold ores..... 204,248 4,137,583 12,509 250,173 - 02 oz. Silver-lead ores..... 1,473 27,505 `oz. 125,384 202,957 2,244,373 oz. Totals..... 278,425 5,591,672 OZ. 2,502,481 ton

The number of gold mines on lode or vein in 1910 was 80 as against 71 in The plant in 1910 consisted of 92 mills, 6 refineries and 238 engines of 17,215 horse-power. In 1910 there were 53 mills with an equipment of 799 stamps, 26 rolls or crushers, 89 concentrating apparatus and 7 refineries and 190 engines of 13,720 horse-power. The value of buildings and plant was proportionately \$4,314,360 in 1910 and \$2,770,862 in 1900. The number of employees at mines and works and the cost of salaries and wages are given for each census year in Table 10.

TABLE 10. Employees on wages and salaries at lode mines.

Classes of employees.	- 19	10.	1900. •		
Classes of employees.	No.	\$	No.	\$	
Officers, clerks etc	114 2,514	215,531 2,709,499	239 3,630	321,499 2,204,236	
Totals	2,628	2,925,030	3,869	2,525,73	

The average cost of salaries and wages per employee was \$1,113 in 1910 and \$653 in 1900, being an increase of \$460 per employee or about 70 per cent. The aggregate weeks of employment during the year were 81,438 in 1910 and 160,630 in 1900. All of the lode mines in 1900 were in British Columbia and Nova Scotia. Ontario and the Yukon each with three mines are reported for the first time in 1910 in addition to British Columbia and Nova Scotia.

GOLD, PLACER.

The mining of placer gold in 1910 was confined to the province of British Columbia and Yukon Territory and shows a falling off in production in the decade of 366,243 ounces and \$5,023,623 in value which may be accounted for by the decrease in the output of the Yukon gold fields of \$4,450,782. The production from 268 claims in 1910 was 250,624 ounces valued at \$4,711,301, being at the rate of \$18.80 per ounce, as against 527 claims reported in 1900 having an output of 616,867 ounces valued at \$9,746,563 or \$15.80 per ounce. A more advanced method of mining by the installation of steam thawing and of dredging plants has superseded the old one of thawing the frozen ground by means of the simple wood fire, and in consequence the number of individual claims has been materially reduced.

In 1910 the value of buildings and plant was \$9,405,594; the plant consisted of 4 mills, 249 sluicing plants, 95 hydraulicking works and 298 engines and motors of 7,773 horse-power; the employees on salaries and wages numbered 1,752 at a cost of \$1,767,218 and aggregated 60,802 weeks of employment during the year.

In 1900 the value of buildings and plant was \$4,996,714; the plant consisted of 4 concentrating apparatus, 61 sluicing plants, 30 hydraulicking plants and 22 engines and motors of 2,058 horse-power; employees on salaries and wages numbered 687¹ at a cost of \$321,794 and aggregate weeks of working time were 18,512 during the year.

The exports and imports of gold are shown in table VII, pages 41 and 42

for each of the census years.

· IRON ORE.

The production of iron ore is derived from 13 deposits of ore in the provinces of New Brunswick, Nova Scotia, Ontario and Quebec and the quantities and values in the census year amounted to 350,228 tons worth \$802,197. Eleven mines in 1900 produced 283,124 tons of the value of \$436,720. There were 5 smelters in operation in each census year with 46 engines of 3,417 horse-power in 1910 and 29 engines of 1,914 horse-power in 1900. Capital invested in buildings and plant was \$1,439,003 in 1910 and \$768,591 in 1900. Employees and wages were 1,012 and \$573,646 in 1910 and 1,191 and \$271,691 in 1900. The aggregate weeks of employment during 1910 were 44,285 and 36,702 in 1900. The average hours per week were 59 8.

Manufactures of pig iron from Canadian ores in 1900 were 6,677 tons, worth \$170,280 and in 1910 they were 97,565 tons of the value of \$1,584,236. In addition to this there was a production of 7,177 tons of ferro-silicon valued at \$307,556. Imports and exports of iron ore will be found in Table VII, pages 41

and 42.

LEAD.

The production of lead is derived from various ores as shown for quantities and values, in Table 11 for the census years 1910 and 1900.

¹ The number of employees and cost of salaries and wages in 1900 does not include those engaged in the production of gold of the value of \$5,064,966, the difference between the figures furnished by the Interior Department and that given to the enumerators for that census year.

TABLE 11. Production of lead.

Source.		1910.		1900.		
		uantity.	Value.	(Quantity.	Value.
			\$		·	\$
Lead ore	ton {ton {lb. {ton {lb.	100 2,337 34,477,100 3,761 118,470	56,400 606,729 94,025		4,423,680 651	115,712 39,811
Totals	ton lb.	6,198 34,595,570	152,425 621,596		651 4,423,680	115,712 39,811

Statistics of capital, plant, employees and wages for lead have been given under silver-lead and gold, lode or vein. Ontario, British Columbia and the Yukon are the only provinces reporting the production of lead in 1910. The value of exports and imports of lead will be found in Table VII, pages 41 and 42.

NICKEL.

The production of nickel is confined to the Sudbury and Cobalt districts of the province of Ontario. The quantity and value of nickel produced in the census years is given in table 12.

TABLE 12. Production of nickel in 1910 and 1900.

				1910.		•		
Source.	Mi 1910.	nes.	Quantity.		Value.	Quantity.		Value.
Nickel-copper ore	5	6	lb. " "	$53,765,008$ $\frac{1,401,244}{55,166,252}$	211,505	(lb.	12,466 22,787,364 	2,173,26

The increase in value of production over 1900 was therefore \$5,998,749 or a percentage increase of 263.4 in the decade.

The value of buildings and plant in 1910 was \$1,494,454 in nickel-copper mines; the plant consisted of two blast furnaces and 41 engines and motors of 5,155 horse-power; employees on salaries and wages numbered 384 at a cost of \$1,011,964 and the aggregate weeks of working time in the year were 71,805.

In 1900 buildings and plant were worth \$123,188; the plant consisted of 10 blast furnaces and 42 engines and motors of 2,085 horse-power; employees numbered 1,240 and the cost of wages and salaries was \$752,237, and the aggregate weeks of working time in the year were 50,121.

There were produced also from the treated ores over 954 tons of white arsenic valued at \$46,304 and 55 tons of cobalt and nickel oxides valued at \$47,036.

The quantities and values of exports of nickel contained in ore, matte, etc., will be found in Table VII, pages 41 and 42.

SILVER.

The production of silver contained in bullion or estimated as recovered from mattes, ores, etc., was, as is shown in summary Table 13 for the year 1910.

TABLE 13. Silver production in 1910.

Source.	(Quantity.	Value.	
•			\$	
Silver ore Silver-cobalt ore. Silver-lead ore. Gold, placer. Gold ore, lode or vein. Copper-gold ore.	foz. ton foz. ton oz. oz. oz.	10,163 3,993 32,798,845 12 11,690,349 39,293 106,767	5, 08 859, 42 16, 777, 82 1, 37 841, 41 19, 98 55, 16	
Totals	ton oz.	4,005 35,302,643	339, 00 18, 899, 24	

Similarly the production for 1900 by source was as shown in Table 14.

TABLE 14. Silver production in 1900.

Source.	Qu	antity.	Value.
			\$
Silver ore	∫ton	2,293	
Silver-lead ore	oz.	130,000	
•	150=	76,927 $441,518$	2,986,048 268,118
Copper-gold ore Gold ore, lode or vein	oz.	538,480	
Gold ore, lode or vein	oz.	47,809	
Totals	[ton	79, 220	3,776,445
	oz.	1,157,807	_,,

It will thus be observed that the production of silver ore is five times greate than ten years ago, owing to the discovery of silver-cobalt ore in the province of Ontario. All the silver-lead ore is found in British Columbia.

The plant in Canada consisted in 1910 of 27 mills, one smelter, 214 engines and motors of 9,398 horse-power and together with buildings were valued at \$4,681,691. In 1900 the plant consisted of 4 mills, 27 engines of 1,212 horse-power which with buildings were valued at \$701,724. The aggregate weeks of working time were 202,106 in 1910 and 76,920 in 1900. The number of persons employed and the cost of salaries and wages is presented in the following summary table for the census years 1910 and 1900.

TABLE 15. Employees, wages and salaries in silver and silver-lead mines.

·		1910.	1900.		
Classes of employees.	Number.	Salaries and wages.	Number.	Salaries and wages.	
	No.	\$	No.	\$	
Officer, managers, etc	210 3,846	341,851 3,566,461	145 1,391	230, 433 1, 424, 953	
Totals	4,056	3,908,312	1,536	1,655,386	

The value of exports of silver in ore, matte, etc., is given in Table VII, page 42.

ZINC.

The production of zinc from zinc ores and silver-lead ores was 910 tons of zinc ore valued at \$24,880 and 6,967,983 lbs. of zinc in ore and in matte valued at \$354,766. In 1910 there were 250 tons of ore produced valued at \$5,000. All of the zinc produced is from the provinces of British Columbia and Ontario. Table VII, page 41 gives the quantities and values of the exports and imports of zinc in 1910 and 1900.

NON-METALLIC PRODUCTS.

ASBESTOS.

The production of asbestos is confined to the province of Quebec and is mined in considerable quantities in the counties of Beauce, Megantic and Richmond. Comparative statistics are given in the following table for the census years 1900 and 1910 showing the number of mines in operation, the value of buildings and plant, the number of employees on salaries and wages and the quantity and value of asbestos and asbestic produced.

TABLE 16. Production of asbestos, 1900 and 1910.

Asbestos.	·	1900.	1910.
lines	no.	6	. 1
fills		5	2
Engines and motors	no.	32	19
Iorse-power	no.	1,365	15,93
alue of buildings and plant	\$	278,000	2,585,84
Imployees on salaries	no.	48	7
alaries	\$	29,597	103, 27
mployees on wages	no.	684	3,1
ages		194,051	1,502,5
re treated	ton	23,696	1,796,3
roducts of treated ore—			
Asbestos.	\$	15,922	100, 2
Asbestic	S	7,000	24,7
alue of—		1	
Asbestos	\$	401,832	3,595,0
Asbetic	\$	15,000	18.5

The aggregate time of all employees during the year was 139,892 weeks as compared with 28,770 weeks in 1900, and the average hours of working time per week was 55.4 in 1910 and the quantity of asbestos rock raised during the year was 1,946,027 tons. Manufactures of asbestos in the census year were valued at \$514,772 as against \$68,945 in 1900. Exports and imports are given in Table VII, pages 41 and 42.

CALCÍUM CARBIDE.

The production of calcium carbide in 1910 was valued at \$515,457 according to the census of manufactures, four of the plants being in Ontario and one in Quebec. Two plants in 1900 produced 1,351 tons valued at \$69,305, both being situated in Ontario. The capital invested in buildings and plant in 1910 was \$286,682, the plant consisted of five mills with 69 engines of 6,933 horse-power; employees on salaries and wages numbered 207 at a cost of \$118,089, and the aggregate weeks of employment during the year were 9,510. Similar figures for 1900 are not available.

COAL.

The mining of coal of all classes is confined to the provinces of Alberta, British Columbia, Saskatchewan and the Yukon territory in the western and to Nova Scotia and New Brunswick in the eastern parts of the Dominion. location of the principal coal areas by provinces is as follows:
Alberta—Calgary, Edmonton, Macleod, Medicine Hat and Red Deer

districts.

British Columbia—Vancouver Island, Crowsnest Pass in East Kootenay and the Nicola valley.

New Brunswick—Grand Lake district in Queens County.

Nova Scotia—Cape Breton, Pictou, Cumberland, Inverness and Colchester counties.

Saskatchewan—Estevan and Souris in Assiniboia East.

Yukon territory—Tantalus in southern Yukon and Coal Creek in northern Yukon.

Bituminous coal forms by far the largest proportion of the total output of Canadian collieries being more than 90 per cent, and is exclusively mined in Nova. Scotia and New Brunswick, and forms the greater part of the output of Alberta. and British Columbia. Lignite coal is found in Alberta, British Columbia, Saskatchewan and the Yukon. There is but one anthracite mine operating in Canada and it is situated at Bankhead, Alberta. This mine operated the only briquetting plant in existence in 1910, but new plants are being installed in Nova Scotia and in British Columbia.

The tonnage raised in 1900 and 1910 may be classed as follows:

	 Mines.	1900.	Mines.	1910.
Anthracite coal	 1	17,549	1	269,787
Bituminous coal	41	5,253,257	94	12,045,265
Lignite coal	14	50,869	128	824,584

Although coal is mined so extensively in Eastern and in Western Canada it is by no means sufficient to supply our needs. The Customs Department in its published report gives the exports and imports of coal and from them the following table (No. 17) has been deduced for the eleven years beginning with 1900:

 $45448 - 3\frac{1}{2}$

TABLE 17. Imports of coal by classes.

Year.	Bituminous Coal.		Anthracite co	oal and dust.	Bituminous coal dust.		
	Tons.	Value.	Tons.	Value.	Tons.	Value.	
1900	2,439,764	4,310,964	1,654,401	6,602,912	330, 174	98,349 275,559	
1901	2,516,392 $3,047,392$	4,956,025 5,712,058	$\begin{bmatrix} 1,933,283 \\ 1,652,451 \end{bmatrix}$	7,923,950 7,021,939	414,432 489.548	264.550	
1902	3,511,412	7,776,717	1,456,713	7,028,664	550,883	420, 31	
1904	4,053,900	9,108,208	2,275,018,	10,461,223	608,041	544, 12	
1905	4, 176, 274	8,002,896	2,604,137	12,093,371	650, 261	343,45	
1906	4,495,550	8,360,348	2,200,863	10,304,308	747,251	489, 180	
1907	6,370,152	13, 232, 445	3,141,873	14,506,129	1,139,256	1,121,949	
1908	6,025,574	12,516,748	3, 160, 110	14,478,536	1,111,811	1,355,67	
1909	5,625,063	11,455,818	3,017,844	13,906,152	1,230,017	1,469,889 1,795,598	
1910	5,966,466	11,919,341	3,266,235	14,735,062	1,365,281	1, 190, 090	

Note. From 1900 to 1906 inclusive, the fiscal year is used and from that year on, the calendar year.

The consumption of coal computed from production, less exports added to imports is presented in the following table.

TABLE 18. Consumption of coal in Canada by 5 year periods.

Calendar Year.	Canadian.	Imported.	Total.	Percentage of Canadian.	Percentage of imported.	Consumption per capita.
	Tons.	Tons.	Tons.	,	<u> </u>	Tons.
1900 1905 1910	2,433,898 7,032,661 10,240,076	7,343,880	7,795,461 14,376,541 20,678,199	48.92	51.08	2.399

The number of engines and motors and their horse-power employed in the coal mining industry in 1900 was 363 with 34,671 horse-power and in 1910 the number of engines rose to 880 and the indicated horse-power to 104,178.

The aggregate weeks employed during the year was 607,898 in 1900 and 1,405,664 in 1910. The average hours of working time per week in 1910 was

Tables 19 and 20 show comparative figures for the production of coal, the number of persons employed, the salaries and wages paid them and the value of production by provinces and Canada for the census years 1900 and 1910.

TABLE 19. Coal production in Canada and the Provinces compared for 1900 and 1910.

and 1910.					
Provinces	Coal r	aised in	Increase in 1910 over 1900	Increase per cent 1910 over 1900	
	1900	1910	Over 1900	1900	
	tons	tons	tons	p.c.	
Canada	296,231 1,582,859	3,020,503	2,950,011 1,437,644	995·84 90·82	
New Brunswick Nova Scotia Saskatchewan Yukon	3,397,036	6,561,345	3,164,309 142,177	93·14 396·37	
I UKOII	1	, -,		J	

TABLE 20. Persons employed, salaries and wages paid and value of production compared for Canada and the Provinces in 1900 and 1910.

		1900		,	1910	
Provinces	Em- ploy- ees	Salaries and wages	Value of production.	Em- ploy- ees	Salaries and wages	Value of production ¹
Canada Alberta British Columbia New Brunswick Nova Scotia Saskatchewan Yukon Ontario	No. 14,504 829 4,393 48 9,184 50 -	\$ 7,538,452 446,131 3,085,808 12,024 3,973,488 21,001	686,645 4,273,719 18,580 7,966,049	6,515 7,238 324 14,977	\$ 18,653,357 4,606,828 5,454,126 119,179 8,230,60 173,754 68,800	7,831,775 8,413,098 317,510 15,468,662 267,596

¹Includes the value of coke produced.

Exports and imports of coal are shown in table VII, pages 41 and 42 and also for imports in table 17, page 14.

COKE.

Coke is made in Alberta, British Columbia, Ontario and Nova Scotia. There were 2,441 coking ovens in 1910 and 1,389,053 tons of bituminous coal were converted into 913,887 tons of coke having a value of \$3,453,424. The coal used at the Ontario ovens was all imported.

Exports and imports of coke are given in Table VII, pages 41 and 42.

CORUNDUM.

The production of corundum is confined to the province of Ontario and in 1910 the value was \$200,120 as against \$43,429 in 1900. The output in 1910 consisted of ore, 7,349 tons valued at \$22,047 and corundum in grain 3,367,650 lb. valued at \$178,073 as against 868,000 lb. in 1900 valued at \$43,429.

The plant consisted of two mills and 5 engines of 565 horse power there being no statistics available for 1900. Employees on salaries and wages numbered 188 in 1910 with payments of \$115,537 for salaries and wages. The aggregate weeks of working time in the year were 9,776 and the average hours of working time per week 58.

Exports of corundum will be found in Table VII, page 42.

FELDSPAR.

The total production of feldspar in 1910 was 17,113 tons valued at \$65,855 as compared with 1,213 tons valued at \$1,820 in 1900. In 1910 the value of buildings and plant was \$10,800 and there were 8 engines and motors of 675 horse-power. Employees numbered 84 and their salaries and wages amounted to \$41,666. The aggregate weeks of employment during the year were 3,377. Comparative figures for 1900 are not available.

The quantities and values of exports and imports are given in Table VII,

pages 41 and 42.

GRAPHITE.

Ontario and Quebec are the only producers of graphite and in 1910 their total production was 20,481 tons valued at \$60,079, as against 3,000 tons of the

value of \$48,000 in 1900. Manufactures of graphite were \$7,000 in 1900 and \$112,407 in 1910. The plant consisted of 3 mills and one refinery in 1910 with an investment of \$257,000 for buildings and plant. Employees of all classes in 1910 numbered 182 with payments of \$78,839. Aggregate weeks of employment in the year were 9,108 and the average hours of working time per week were 59.5. Similar figures are not available for 1900.

For imports and exports see Table VII, pages 41 and 42.

GRINDSTONES AND PULPSTONES.

The production of grindstones, pulpstones, etc., amounted in the census year 1910 to \$80,465 as against \$41,400 in 1900. Nova Scotia, New Brunswick and Quebec were the provinces producing this kind of abrasive goods in 1910. The industry had 4 mills and 18 engines of 670 indicated horse-power, and a capital investment in buildings and plant of \$193,200. Employees numbered 248 with salaries and wages amounting to \$69,820. Comparative figures are not available for 1900. Manufactures in the census year amounted to \$64,350.

Imports and exports are shown in Table VII, pages 41 and 42.

GYPSUM.

The production of gypsum in 1910 was 515,804 tons of the value of \$598,312 as compared with 209,356 tons valued at \$194,128 in 1900. The plant consisted of 5 mills and 31 engines of 1,023 indicated horse-power which with buildings made a total of \$538,516 for investment of capital in 1910 as against 6 engines of 403 horse-power and a value of buildings together totalling \$39,150 in 1900. The number of employees on salaries and wages was 886 in 1910 and 385 in 1900; salaries and wages cost \$400,058 in 1910 and \$114,195 in 1900; aggregate weeks of working time were 36,382 in 1910 and 15,734 in 1900. Manitoba, New Brunswick, Nova Scotia, Ontario and Quebec are all producers of gypsum.

Manufactures of gypsum were reported in 1900 at \$88,706 and in 1910 the

value was \$634,005.

Imports and exports of gypsum and its manufactures are presented in Table VII, pages 41 and 42.

MICA.

Returns received from 21 operators of mica mines in 1910 indicate a production in the census year of the value of \$187,544 as compared with a value of \$272,016 in 1900. The value of buildings and plant was \$168,904 in 1910 and \$25,075 in 1900. All the mica mines are situated in the provinces of Ontario and Quebec. Manufactures of mica were valued at \$482,587 in 1910 and \$406,573 in 1900.

Exports of mica are shown in Table VII, page 42.

MINERAL PIGMENTS.

The quantity of barytes shipped in 1910 was reported as 3,500 tons valued at \$7,000, and in 1900 it was 1,286 tons with a value of \$4,992. The value of buildings and plant was \$10,000 in 1910 and the number of employees was 15 with wages amounting to \$5,000. The province of Quebec furnished the whole production of barytes.

Iron ochres and iron oxides together were produced to the amount of 1,906 tons with a value of \$26,175. The number of persons employed was 28 and the cost for salaries and wages was \$11,495. The production of iron ochres and iron

oxides was also furnished by the province of Quebec.

Imports and exports of mineral pigments are shown in Table VII, pages 41 and 42.

MINERAL WATER.

The quantity and value of mineral water produced in 1910 was 1,568,057 gallons worth \$203,595, and in 1900 it was 983,868 gallons worth \$97,638, an increase in the decade of 584,189 gallons and \$105,957. The number of engines and motors was 17 with indicated horse-power of 128; buildings and plant were valued at \$213,100 in 1900 and at \$251,938 in 1910; employees numbered 69 with aggregate working time of 2,868 weeks and wages amounting to \$22,391 in 1900 and 159 employees with aggregate working time of 8,160 weeks and \$90,876 in wages in 1910. The provinces reporting were Ontario and Quebec with 6 wells each. The imports of mineral waters in 1910 were valued at \$188,559 as against \$30,343 in 1900.

MISCELLANEOUS MINERALS.

The statistics for miscellaneous minerals for 1910 and 1900 are presented in table 21 and show for the following mines or works in 1910 viz: 1 aluminium, 1 dolomite, 1 fluorspar, 1 tripolite, 1 manganese, 1 mineral earth, 1 moulding sand and 1 slate. In 1900 there were 19 in this class, viz: 1 actinolite, 1 anthracite coal, 2 barytes, 1 corundum, 2 feldspar, 2 graphite, 2 ochre, 1 peat, 1 silica, 1 slate, 1 soapstone, 1 tale, 2 tripolite and 1 zinc.

TABLE 21. Miscellaneous minerals.

Statistics of miscellaneous minerals	19	1900
No. of mines or works:	No.	8
Plant, mills, etc		2
Engines and motors		30
Horse-power		460 1,
Value of buildings and plant	. 8 1,72	[20,700] 415,
Employees on salaries		12
lolorios	50 1	16,980 $30,8$
Employees on wages	No.	327
Vages	30 10	32,298 130,
Aggregate weeks employed during the year	No. I	16,367 15,
A verage hours of working time per week	. No.	$55 \cdot 2$
Value of production	\$ 11,05	[52,322] $[241,3]$

Table VII, pages 41 and 42 gives the statistics of exports and imports of aluminium, manganese and slate.

NATURAL GAS.

The production of natural gas in 1910 was 6,910,381,635 cubic feet valued at \$1,335,062, and in 1900 the value was \$139,703, an increase in the ten years of \$1,195,359. Quantities were not given in 1900. Returns were received from 110 wells in 1910 as against 13 in 1900, the invested capital was \$1,546,569 in 1910 and \$368,527 in 1900 and the employees numbered 218 with salaries and wages amounting to \$102,004 in 1910 as against 23 employees and \$21,908 in 1900. Ontario produced more than 98 per cent of the total output, the other provinces reporting being Alberta and Quebec. New Brunswick has recently struck gas. in paying quantities but the wells had not been producers when the census was taken.

PETROLEUM, CRUDE.

The production of crude petroleum in 1910 was 10,480,238 gallons of the value of \$467,498 from 219 wells reporting. There were 167 engines of 3,211 horse-power and the value of buildings and plant was \$1,303,768. The number of persons employed was 440 with a cost in salaries and wages of \$191,598. The aggregate number of weeks employed during the year was 19,398 and the average hours of working time per week was 56·6. Ontario and New Brunswick are the sole producers, the latter having but one well that reported. No returns for crude petroleum were received in 1900. Refined oils and by-products to the value of \$2,608,830 were produced in Ontario during 1910. The imports of crude oil in 1910 were 53,604,053 gallons valued at \$1,639,358. Other oil imports included: 7,656,727gallons of refined and illuminating oils valued at \$520,364, 16,679,691 gallons of gasoline valued at \$1,693,296, and 4,081,257 gallons of lubricating oils valued at \$718,381. Imports of crude petroleum are given in Table VII, page 41.

PHOSPHATE (APATITE).

The shipments of phosphate or apatite in 1910 were 1,396 tons of the value of \$23,999 as compared with 495 tons valued at \$3,807 in 1900. The production of phosphate is confined to the provinces of Ontario and Quebec.

PYRITES.

The production of pyrites in 1910 was 77,813 tons valued at \$328,648, of which 32,165 tons were iron pyrites and 45,648 tons, copper and sulphur pyrites. In 1910 there were five mines with 22 engines of 1,305 horse-power. The value of buildings and plant was \$201,314, the number of employees was 287, the cost of salaries and wages was \$142,806 and the aggregate weeks of working time in the year 14,183. In 1900 there was one mine producing 15 tons valued at \$105. Other statistics for 1900 are not available. Nearly all the pyrites is derived from the mines of Ontario and Quebec. The value of exports and imports are given in Table VII, page 42 for each census year.

QUARTZ (SILICA).

The production of silica quartz from three mines all situated in the province of Ontario in 1910 was 11,950 tons of the value of \$27,520 and in 1900 it was 5,000 tons valued at \$6,500. The quantities and values of exports and imports are given in Table VII, page 41.

SALT.

The total production of salt in 1910 was 80,360 tons, and inclusive of packages, were valued at \$614,496. In 1900 the production was 56,824 tons valued at \$345,148. Nine wells reported in 1910 with an investment of \$857,349 in buildings and plant, and in 1900 with the same number of wells, the value was \$558,192. The employees in 1910 numbered 205, and the cost of salaries and wages was \$121,675, and in 1900 they were 208 in number with a cost for salaries and wages of \$86,444. Ontario is the only province in which salt is produced. The values of exports and imports will be found in Table VII, pages 41 and 42.

TALC.

Three talc mines in 1910 produced 8,656 tons of talc of the value of \$23,610 as compared with 1,000 tons valued at \$4,000 in 1900. All the talc produced comes from British Columbia and Ontario.

STRUCTURAL MATERIALS AND CLAY PRODUCTS.

CEMENT, PORTLAND.

The production of Portland cement in Canada shows a remarkable increase in this growing industry during the decade. In 1900 the production from 7 operating plants was 414,055 bbls. valued at \$765,876 while in 1910 with 24 plants in operation the output was 4,385,879 bbls. of the value of \$5,851,066, being more than ten times greater in quantity but less than 8 times in value. Table 22 shows the annual production and its value for the 11 years since 1900.

TABLE 22. Production of Portland Cement in Canada in the decade 1900-1910.

•	Year	Barrels	Value .
		 No.	8
9001		 414,055 450,394	765,87 660,03
902		 722,525 719,993	1,127,58 $1,225,24$
9051		 1,600,000	2,271,00
907 908		 2,441,868 2,666,333	3,781,3' 3,709,9
		4,067,709	

¹Census returns.

Although the production of cement has multiplied tenfold it is not yet equal to supply the demand for construction work, as in 1910 there were upwards of 349,000 barrels of 350 lb. imported during the year. When the new plants mentioned are in operation and when some of the older plants have increased their capacity, it may be expected that they will be able to meet the growing demand.

The plants in operation in 1910 were situated as follows: Alberta 3, British Columbia 1, Manitoba 2, Nova Scotia 1, Ontario 14, and Quebec 3. The following table shows for the two census years by provinces (1) the number of plants in operation, (2) the capital invested and (3) the daily capacity of plants in barrels of 350 lb. net.

TABLE 23. Plants in operation showing capital invested and daily capacity in 1900 and 1910.

	1900	1910	1900	1910	1900	1910
CANADA Alberta British Columbia Manitoba Nova Scotia Ontario Quebec	No. 7 5 2	No. 24 3 1 2 1 14 3	- 1	\$ 10,482,167 2,708,000 1,500,000 137,500 37,000 4,785,817 1,313,850	. 1 1 1 1	bbls. 25,835 3,300 2,050 215 200 15,300 4,770

¹Not given in 1900 census.

⁴⁵⁴⁴⁸⁻⁴

New plants are being constructed at Blairmore and Edmonton in Alta., Princeton and Tod Inlet in B. C., Winnipeg, Man., Owen Sound, Hamilton, Brantford, Ont., and Neuville, Que.

The salaries and wages of persons employed in cement works are compared in the following table for Canada and the provinces, and show an increase of 1,663 in the total number of persons employed in the industry and of \$1,180,570 in the total cost of salaries and wages. The total number of weeks of all employees in 1900 was 19,962 and in 1910 it was 92,389 with an average of 61·3 hours per week.

TABLE 24. Salaries and wages of persons employed in the production of Portland Cement.

D	190	00.	1910.		
Province.	Employees	Salaries and wages.	Employees	Salaries and wages.	
• .					
CANADA Alberta British Columbia Manitoba Nova Scotia Ontario Quebec		221,514 - - - - 186,300 35,214	169 261 71 19 1,332	1,402,08- 175,02- 180,64- 23,65- 8,10- 744,99- 269,67-	

Table 25 shows the quantity and value of Portland cement produced by provinces. A foot note gives the average price per barrel in the two census years indicating a fall of 51 cents per barrel in the decade.

TABLE 25. Production of Portland Cement in Canada and the provinces in 1900 and 1910.

Province.	190	0.	1910.	
Froymee.	Barrels.	Value.	Barrels.	Value.
	No.	. \$.No.	\$.
CANADA. Alberta. British Columbia. Manitoba. Nova Scotia. Ontario. Quebec.	-	765,876 - - - 619,018 146,858	389,428 282,540 40,328 25,528 2,528,463	797,891 420,810 48,910 38,030 3,145,934

Average price per bbl. \$1.85 \$1.34.

Exports and imports of cement are shown in table VII, pages 41 and 42.

CEMENT BLOCKS AND TILES.

The manufactures of cement blocks and tiles in 1910 were valued at \$1,886,529. The number of works was 82, with an investment of \$513,650 in buildings and plant. The plant consisted of 108 engines of 4,130 horse-power, the number of employees was 967 and the cost of wages and salaries was \$464,387. The aggregate weeks of working time employed during the year was 29,179 and the average hours of working time per week was 58. No returns for the production of cement blocks and tiles were received in 1900.

CLAY PRODUCTS.

The production of clay products compared for the census years 1900 and 1910 is presented in the three following tables. Table 26 shows the number of plants in operation and the capital invested in buildings and plant; Table 27 the number of persons employed, their salaries and wages and the value of production, and Table 28 the quantities and values of the different classes of clay products where possible. The aggregate number of weeks of time employed by all classes of employees during the year was 170,984 in 1900 and 306,420 in 1910, while the average hours of working time per week was 56 in 1910, no data being available for 1900.

TABLE 26. Plants and capital invested in clay products compared for 1900 and 1910 by provinces.

Canada and the provinces.		per of nts.	Capital in buildings	vested in and plant.	Increase of capital 1910 over 1900.		
	1900.	1910.	1900.	1910.	Increase.	Increase per cent.	
CANADA	573	489	4,210,244	10,752,227	6,541,983	155.38	
AlbertaBritish Columbia	5 1 17	23 19					
Manitoba. New Brunswick.	19 15	25 11	164,125 96,800	649,508 74,368	485,383 $-22,432$	$ \begin{array}{r r} & 295 \cdot 7 \\ & -23 \cdot 1 \end{array} $	
Nova ScotiaOntario	389	14 318	2,369,627	4,619,275	2,249,648	94.9	
Prince Edward IslandQuebecSaskatchewan	90		1,125,232	1,500,450	375,218	33 3	

Note.—The minus sign indicates decrease.

Table 27 shows the salaries and wages of employees engaged in the clay industry for the census years 1900 and 1910. It will be noted that the only provinces showing decrease are New Brunswick and Prince Edward Island. The percentage of increase for Canada in salaries and wages was 177.31, of persons employed 43.67, and of value of products 189.77. The production per employee, which increased by nearly 102 per cent in the decade, may be accounted for by the introduction of and improvement in brick machinery.

TABLE 27. Employees on salaries and wages.

•	Emple	oyees on sa					
Canada and the provinces.	19	900	19	910 -	Value of products		
-	Number	Salaries and wages	Number	Salaries and wages	• 1900	1910	
		\$:	\$	\$	\$	
CANADA	6,705	1,327,533	9,633	3,681,417	3,299,917	9,562,30	
Alberta British Columbia	60 272	10,300 65,661		-399,627 295,536		938,36 635,50	
Manitoba. New Brunswick.	254	53, 520 53, 039	1,106	411,600 49.040	122,580	1,026,07	
Nova ScotiaOntario	311	55,769 765,534	343	109,308 1,783,495	127,336	227,70	
Prince Edward IslandQuebec	81	3,954 $300,062$	14	490	10,335		
Saskatchewan	130	19,694		127,233			

Ontario is the first in rank as a producer of clay products with 51.5 per cent of the total, Quebec is second with 15.2 per cent, Manicoba third with 10.7 per cent, Alberta fourth with 9.8 per cent, British Columbia fifth with 6.6 per cent, Saskatchewan sixth with 2.9 per cent, Nova Scotia seventh with 2.4 per cent, New Brunswick eighth with .85 per cent and Prince Edward Island ninth with little more than one-sixth of 1 per cent.

TABLE 28. Production of clay products in 1900 and 1910.

Class.	190	0.	. 1910.		
CARDI	Quantity.	Value.	Quantity.	Value.	
•	No.	\$	No.	\$	
Common brick. Pressed brick Glazed brick and tile	371,202,668 14,444,000 25,000	134,336	110,684,980		
Silicate Drick. Vitrified brick. Drain tile.	5,748,000 23,145,700	72,275	33,474,261 -	· -	
Sewer pipe. Terra cotta. Pottery and earthenware.	_	369,631 48,000 226,020	- I	623,458 67,597 362,735	
Rooting tile Paving brick Fireproofing	49,500		15,000 106,000 2,979,600	301 3,464	
Firebrick and fireclays. Other clay products ¹				39,985 171,275	
Totals		3,299,917	-	9,562,302	

Includes bath brick, block brick, hollow brick, boiler tile, building tile, and clays not specified.

Exports and imports of clay products are given in Table VII., pages 41 and 42.

LIME.

All the provinces of Canada contributed to this industry, and in 1910 produced 5,271,897 bushels of lime valued at \$1,183,131 as against 3,201,494 bushels of the value of \$523,862 in 1900. The number of kilns reported in 1900 was 163 as against 102 in 1910; the plant consisted of 50 engines or 681 horse-power as against nil in 1900; the invested capital was \$885,276 in 1910 and \$202,852 in 1900; employees numbered 1,016 in 1910 and 747 in 1900; salaries and wages amounted to \$444,350 in 1910 and \$218,727 in 1900; aggregate weeks of employment during the year were 42,261 in 1910 and 27,231 in 1900.

Imports and exports are shown in Table VII, pages 41 and 42.

SAND AND GRAVEL.

The production of sand and gravel in 1910 amounted to 2,939,205 tons of the value of \$2,330,458, as against 272,192 tons valued at \$38,166 in 1900.

Production by provinces is given in Table 29 for the census years 1910 and 1900.

	No. of	pits.	191	0.	1900.		
Provinces.	1910.	1900.	Quantity.	Value.	Quantity.	Value.	
			tons.	\$	tons.	8.	
CANADA	101	81	2,939,205	2,330,458	272, 192	38,16	
Alberta British Columbia Manitoba New Brunswick Nova Scotia Ontario Quebec	4 3 8 2 1 75 8	- 2 1 2 72 72	77,500 976,700 962,198 1,900 16,000 684,757 220,150	70,500 975,900 640,949 1,930 7,200 289,089 344,890	15,092 37 1,000 232,563	85 24 4, 10 25, 96 7, 00	

TABLE 29. Production of sand and gravel.

In 1910 the value of buildings and plant was \$384,690; there were 37 engines of 1,351 horse-power; 653 employees received \$307,017 in salaries and wages and the aggregate weeks of employment in the year were 24,222. In 1900 buildings and plant were valued at \$17,935; there were 2 engines of 60 horse-power; the number of employees was 63; the cost of salaries and wages \$15,640 and the aggregate weeks of employment during the year were 1,732.

The value of exports and imports are given in Table VII, pages 41 and 42.

STONE PRODUCTION, BUILDING, MONUMENTAL, ETC., FOR 1910 AND 1900.

The production of building stone, monumental stone, paving stone, crushed stone, rubble and furnace flux is presented in Tables 30, 31 and 32 for the census years 1910 and 1900. Table 30 gives (1) the number of quarries, (2) the number of engines and motors and their indicated horse-power, and (3) the value of the buildings and plant by classes of stone.

TABLE 30. Stone production, quarries, plant and capital invested in buildings and plant in 1910 and 1900.

Classes of stone.		Quarries.		Plar	Value of buildings and plant.			
Classes of stone.	1910.	1900.	191	0.	19	00.	1910.	1900.
	No.	No.	Engines	H.P.	Engines	H.P.	\$	\$
Granite, buildingGranite paving blocks	37	19	47	1,638	19	478	402,649	87,990
Limestone (dimension) Limestone for flux	124	98 5	120	4,136	69	1,259	1,034,554	203, 195
Marble	5 32	3	10 34	770 1,085	1	3	116,500 575,853	3
Sandstone Trap rock	, 22	32	23	369	31	601	121,000	66,950
Totals	225	154	234	7,998	109	2,338	2,250,556	358, 13

¹Included with granite in 1900. ²Include ³Included with limestone in 1900 and 1910. ²Included with limestone and sandstone in 1900.

TABLE 31. Employees, salaries and wages in the production of stone.

9	191	0.	1900.		
Classes of stone.	Employees.	Salaries and wages.	Employees.	Salaries and wages.	
· ·	No.	\$	No.	\$	
Granite, building	875	429,598	749	261,945	
Limestone (dimension). Limestone for flux. Marble.	1,880 2 198	820, 230 $141, 119$	1,854 104 -	605, 336 55, 850	
Rubble and other stone. Sandstone. Trap rock.	677 429	305,639 177,512 3,183		132,899	

¹Included with granite in 1910. ²Included with limestone (dimension) in 1910. ³Included with limestone and sandstone in 1900.

Table 32 gives the production by classes of each kind of stone by quantities and values.

TABLE 32. Production of stone; building, monumental, etc.

	19	010.	- 1900.		
Classes of stone.			·		
	Quantity.	Value.	Quantity.	Value.	
Granite, buildingc. yd. Granite paving blocksno.			89,825	604, 13	
imestone (dimension)	601,181 $891,264$	42,337 $2,043,691$	325,888	816,52	
Imestone for flux ton	200, 293	151,077	78,462	68,35	
darblec.vd.l	26,485			1	
Rubble and other stoneton	1,314,053		216,508	101,24	
Sandstonec.yd. Frap rockton	158,336 4,800		50,681	206,44	
Totals.		4,200,469		1,796,70	

¹Not reported in 1900.

Table 31 gives the number of persons employed and the cost of salaries and wages by classes of stone.

The aggregate weeks of working time during the year were as follows:--

Granite 36,415 weeks in 1910 and 26,028 weeks in 1900; limestone (dimension) including limestone for flux, 75,918 in 1910 and 64,378 in 1900; marble, 10,060 in 1910 and nil in 1900; rubble and other stone, 26,723 in 1910 and included with limestone and sandstone in 1900; sandstone, 12,928 in 1910 and 11,594 in 1900 and trap rock, 440 in 1910 with no report for 1900. The total for all classes was 162,484 weeks in 1910 and 107,027 weeks in 1900. The manufactures include artificial stone of the value of \$94,585 in 1910, which appears in census returns for the first time, and cut stone to the value of \$2,980,653 in 1910 and \$72,700 in 1900.

The value of exports and imports of all classes of stone are given in Table VII, pages 41 and 42.

TABLE I. Summary of the Mineral statistics of Canada and the Provinces by classes of products, showing quantities and values for the census year 1910.

No.	Materials.	Quantit	y.	Value.
				\$
	CANADA.		-	122,004,932
1	Metallic ores and products—		_	48,978,790
2	Antimony t	ons	321	18,589
3	Copper ore		, 244	59,782
4	Copper-gold ore, raised	" 1,833		
¹ 5	Copper-gold ore, marketed	" 1,814		=
6	Copper-gold ore, treated at works	" 1,527	,024	_
_	Products of treated ore—	"	700	10 500
7	Copper ore	ь. 3,826		10,500 448,870
8 9		11.306		1,483,651
10	Copper, fine	" 27,37		3,461,818
11			, 263	2,945,403
12	Gold in matte, fine	" 58	3,985	1, 192, 180
13	Silver in ore		0,509	64,539
14	Silver in matte		3,348	69,728
15	Silver, fine	1 40	7,369	204,793
16	Gold ore, lode or vein, raised to	ns. 13	3,905	
17	Gold ore, lode or vein, marketed		1,861 2,584	
18		11.	2,004	-
19	Products of treated ore— Gold, lode or vein, fine	oz. 5	2,525	1,026,004
20			0,179	400,580
21			3.761	94,025
22		b. 118	3,470	14,867
23	Silver in ore		2,366	
24		"	1,299	2,158
25	Silver, fine		102	54
26	Gold, placer, fine	20	0,624	4,711,301
27			1,898 6,064	-
28	Iron ore, marketedProducts of treated ore—	. 21	0,004	_
29		ons! 34	5,432	778,427
30		"	7, 177	307,556
31	Pig iron	" 9	7,656	1,584,236
32	Iron ore (titaniferous)	"	4,080	2,290
33	Iron ore (bog)	ii	716	21,480
34			100	2,000
35	Nickel-copper ore, raised	. 09	6,466 9,965	_
36	Nickel-copper ore, marketed	1 02	0,900	
37		ь. 23.03	0,123	1,727,259
38		" 5.19	6,000	389,672
39		" 48.18		7,228,350
40	Nickel, in matte		6,000	836,458
41	Silver ore, raised t	ons	54	_
45		"	54	-c

TABLE I. Summary of the Mineral statistics of Canada and the Provinces by classes of products, showing quantities and values for the census year 1910.

No. Materials. 43 Silver in ore.	Quantity	Value.
43 Silver in ore	Quantity.	value.
43 Silver in ore		
43 Silver in ore		. \$
	oz. 10,1	63 5,082
44 Silver, fine	39,2	93 19,981
45 Silver-cobalt ore, raised		
Products of treated ore—	•	
47 Silver ore		
49 Silver in matte		00 2,860,066
50 Silver, fine	1,042,0	
52 Cobalt		
53 Silver-lead ore, raised		
54 Silver-lead ore, marketed 55 Silver ore		1,378
56 Silver in ore	oz. 1,292,7	47 639, 206
57 Silver in matte		
59 Lead ore	tons 2,3	37 56,400
60 Lead in ore		72 534,722
61 Lead in matte		
63 Gold in matte, fine		80 3,600
64 Zinc ore		70 13,680 18 293,918
66 Zinc in matte		
67 Zinc ore, raised	tons	33 -
68 Zinc ore, marketed		[33] – [50] 11,200
70 Zinc in ore		12,380
Abrasive products— 71 Corundum ore	tons 7,3	431,973 22,047
72 Corundum (in grain)	lb. 3,367,6	178,073
73 Grindstones		64,465
74 Pulpstones		
76 Infusorial earth and tripolite	tons	5,000
77 All otherFuel and light materials—		- 146,388 - 37,514,108
78 Carbide of calcium		- 515,457
79 Coal anthracite, raised		87 -
80 Coal anthracite, marketed		
82 Coal, bituminous, marketed	10,892,5	26, 365, 262
83 Coal, lignite, raised	024,	
85 Coke		
86 *Illuminating oil	c. ft. 6,910,381,6	2,609,130
88 Peat		$\begin{bmatrix} 35 \\ - \end{bmatrix} = \begin{bmatrix} 1,335,062 \\ 6,120 \end{bmatrix}$
89 Petroleum (crude)	gal. 10,480,5	38 467.498
Pigments—	tons 3,5	- 80,211 7,000
91 Cobalt and nickel oxides		55 47,036
92 Iron oxide		
93 Ochres Structural materials of stone and clay—		45 11,175 - 27,957,600
94 *Cement blocks and tiles		- 1,886,529
95 Cement, Portland 96 Brick, common		
97 Brick, pressed		1,186,625
.98 Brick, silicate		
100 Brick, hollow		30,000
101 Brick, all other		
102 Sewer pipe		- 623,458 1,005,849
104 Boiler tile		120
105 All other tile	95,0	000 2.701

TABLE I. Summary of the Mineral statistics of Canada and the Provinces by classes of products, showing quantities and values for the census year 1910.

No.	Materials.	Quantity.	Value.
			\$
107	Fireclay and fireclay products		58,316
108	Fireproofing no.	2,979,600	215,510
109	Pottery	· -	362,735
110 111	Terra cotta	-	67,597 97,620
112	Granite	97,794	405,991
113	Granite paving blocks	563,000	42,337
114	Limebu.	5, 271, 897	1,183,131
.115	Limestone (dimension)c. yd.	891,264	2,043,691
116	Marble	26,485	215,000
117	Rubble and other stone tons	1,314,053	753, 148
118	Sand and gravel	2,939,205	2,330,458
119	Sandstonec. yd.	158,336	585, 225
120	Slate sq.	3,959	18,492
121	*Stone, artificial	· -	95,577
122	*Stone, cut	-	2,980,653
123	Stone, all other tons	4,800	4,000
	Miscellaneous products.—		7,042,250
124	Arsenic (white) tons	954	46,304
125	Asbestos	100, 247	3,595,048
126	Asbestic. " Dolomite. "	24,751	18,589
127	Dolomite	30,000	24,000
128	Feldspar	17, 113	65,855
129	Fluorspar	. 175	700
130	Graphite (crude)	5,730	48,879
131	Graphite ore	14,751	11,200
132	Graphite, manufactures of	E41 707	40,000
133	Gypsum (crude) raisedtons	541,767 520,804	500 210
134	Gypsum (crude) marketed	200, 293	598,312 151.077
135 136	Manganese	200, 293	1,000
137	Mica (crude)	1, 183	176,349
138	Mica, manufactures of	1,100	383,934
139	Mineral earthtons	16	80
140	Mineral watergal.	1,568,057	203, 595
141	Moulding sand ""	1,200	3,050
142	Phosphate (apatite)	1,396	23,999
143	*Plaster and other manufactures of gypsum"	-,	656,005
144	Pyrites"	77,813	328,648
145	Salt"	80,360	614,496
	and the second s	11 050	27,520
146	Silica (quartz)	11,950	21,020

^{*}Full statistics of products marked with a star are given in tables of manufactures.

TABLE I. Summary of the Mineral statistics of Canada and the Provinces by classes of products, showing quantities and values for the census year 1910.

=	The state of the s	1	· · · · · · · · · · · · · · · · · · ·
No.	Materials.	Quantity.	Value.
.]	· · · · · · · · · · · · · · · · · · ·		8
	ALBERTA	_	10, 515, 074
,	Fuel and light materials—		
1 2	Coal, anthracite; raisedtons Coal, anthracite, marketedtons	269,787 268,059	790,760
3 4	Coal, bituminous, raised tons	2,349,785	· -
· 5	Coal, bituminous, märketedtons Coal, lignite, raisedtons	2,181,785 626,670	4,948,712
6	Coal, lignite, marketedtons Coketons	624,741	1,591,162 501,141
8	Natural gas	75,000 000	22,500
9	Structural materials of stone and clay— *Cement blocks and tiles————————————————————————————————		174,378
10 11	Cement, Portlandbbl. Brick, commonno.	389,428 52,902,327	797,893 508,803
12 13	Brick, pressed no. Brick, silicate no.	15,772,410 1,000,000	196,366 14,000
14	Fireproofing no.	2,000,000	192,00
15 16	Sewer pipe Fireclay and fireclay products	,	8,000 19,200
17 18	Limebu. Rubble and other stonetons	372,500 140,000	86,500 135,000
19 20	Sand and gravel	77,500 82,564	70,500 $256,41$
21	*Stone, cut		201,75
	BRITISH COLUMBIA	-	24,581,33
1	Metallic ores and products— Copper-gold ore, raisedtons	1,828,854	_
2	Copper-gold ore, marketed	1,810,195 1,527,024	
4	Products of treated ore— Copper ore"	700	10,50
5	Copper in ore lb. Copper in matte. "	3,453,644	419, 52 1, 483, 65
7	Copper, fine	11,306,312 27,372,188	3,461,81
8	Gold, lode or vein, fine	145, 263 58, 985	2,945,40 1,192,18
10 11	Silver in matte"	117,904 129,348	63, 10 $69, 72$
12 13	Silver, fine	407,369 82,988	204,79
14 15	Gold ore, lode or vein, marketed "Gold ore, lode or vein, treated at works. "	55, 404 72, 272	<u>.</u>
- 1	Products of treated ore—		. 010 16
16 17	Gold, lode or vein, fine	41,651 20,179	812, 16 400, 58
18 19	Lead oretons Lead in orelb.	3,761 39,470	94,02 13,81
20 21	Silver in ore. — oz. Silver in matte. "	49,040 4,299	$25,00 \\ 2,15$
22 23	Silver, fine	102 21,239	5 350, 16
24 25	Silver ore, raised tons Silver ore, marketed "	54 54	_
26 27	Silver in ore oz.	10, 163 152, 612	5,08
28	Silver-lead ore, raised tons Silver-lead ore, marketed " Silver-lead ore, marketed " ""	51,621	1 27
29 30	Silver in ore	1,292,747	1,37 $639,20$
31 32	Silver, fine	224,676 172,926	116,49 85,71
33 34	Lead oretons Lead in orelb.	2,337 $31,898,272$	56,40 534,72
35 36	Lead in matte. Gold, lode or vein, fine	2,578,828 1,293	72,00 23,90
37	Gold in matte, fine	180	

TABLE I. Summary of the Mineral statistics of Canada and the Provinces by classes of products, showing quantities and values for the census year 1910.

	,		
No.	Materials.	Quantity.	Value.
	BRITISH COLUMBIA—con.		\$
38 39 40 41 42 43	Zinc ore tons Zinc in ore lb. Zinc in matte " Zinc ore raised tons Zinc ore marketed " Zinc in ore lb.	5,296,418 1,162,565 633 633 509,000	13,680 293,918 48,468 — — — — — ——————————————————————————
44 45 46 47 48	Fuel and light materials— Coal, bituminous, raised. Coal, bituminous, marketed. Coal, lignite, raised. Coal, lignite, marketed. Coke. "" "" "" "" "" "" "" "" ""	3,008,635 2,716,383 11,868 10,146 241,580	7,272,953 32,637 1,107,508
49 50 51 52 53 54 55 56 57 58 59 60	Structural materials of stone and clay— *Cement blocks and tiles. Cement, Portland. Brick, common. Brick, pressed. Drain tile. Fireproofing. Sower pipe. Paving brick. Granite. Lime. Rubble and other stone. Sand and gravel. *Stone, cut. *Stone, cut. bbl. bbl. no. c.yd. tons sand "" *Stone, cut.	282, 540 35, 384, 340 5, 650, 000 4, 815, 000 979, 600 102, 000 49, 999 318;479 33, 800 976, 700	252,745 420,810 316,459 127,400 62,875 23,510 102,000 3,264 103,369 75,195 35,000 975,900 212,836
62 63	Miscellaneous products— Limestone for flux	800 170	750 500
1 2 3 4 5 6 7 8 9 10 11 12 13	Limestone (dimension)	40,328 65,424,800 8,834,000 22,000,000 500,000 1,300 345,530 39,207 160,607 962,198	2,928,316 42,572 48,910 643,336 107,743 220,000 25,000 30,000 3,827 66,805 99,390 107,248 640,949 600,036
14 15	Gypsum (crude) tons	40,000	30,000 262,500
	NEW BRUNSWICK	·	1,087,113
1	Metallic ores and products— Iron oretons	24,515	49,030
2 3 4	Whetstones no.	5,265 21,600 800	64,360 4,000 5,000
56	Coal, bituminous, marketed	124,400 103,750 52,000	317,510 4,000

TABLE I. Summary of the Mineral statistics of Canada and the Provinces by classes of products, showing quantities and values for the census year 1910.

ο.	- Materials.	Quantity.	Value.
	NEW BRUNSWICK-con.		\$
-	Structural materials of stone and clay-		
8	*Cement blocks and tiles		108,
ő	Brick, common	6,323,162 $100,000$	53,5 1,5
1	Drain tile	345,000	6,3
2	Pottery	-	23,
4	Granitec. yd. Limebu.	581 375,725	11, 96,
5	Limestone (dimension) c. yd. Marble "	800	2,
6	Rubble and other stone tons.	2,290	4,
8	Sand and gravel"	1,900	3, 1,
9	Sandstonec. yd.	25,050	83,
20	Miscellaneous products— Gypsum (crude) raisedtons	91,500	
1	Gypsum (crude) marketed. "	60, 462	117,
2	Gypsum (crude) marketed		127,
3	Pyritestons	2,800	3,
	NOVA SCOTIA	, -	17,059,
1	Metallic ores and products— Antimonytons	321	18.
2	Copper ore "	20	,
3 4	Gold off, lode of veill, faised	48,312 48,312	
5	Gold ore, lode or vein, marketed	40,312	
6	Gold, lode or vein, fine oz.	8,525	169,
7	Iron oretons	53,135	106,
8 <i>1</i>	Abrasive products— Grindstones"	7	:
9	All other	-' ·	31,
0 1	Fuel and light materials— Coal bituminous, raised	6,561,345	
1	Coal Ditummous, marketeu	5,889,193	13,812,8
2	Coke	508,025	1,655,
3 5	Structural materials of stone and clay— Cement, Portland	25,528	38,
4	Brick, common no.	17,985,000	110,
5	Brick, pressed "	3, 104, 020	31,
6 7	Drain tile	300,000	5,6 61,
8	Fireclay tons	3,075	9,
9	Terra cotta	-	1
0	Firebrick no. Boiler tile "	601,500 $1,819$	9,
2	Granitec. yd.	7,773	20,
3	Limebu.	40,000	12,
4	Limestone (dimension)	157,607 270	410, 4 1, 0
В	Sand and graveltons	16,000	7,
8	Sandstonec. yd. *Stone, cut	13, 124	61,2 20,0
	1 iscellaneous products—		
gl Ol	Dolomite	30,000	24,6 360,6
1	Manganese	350, 594 50	1,0
2	Manganese	-	79,8
į	ONTARIO	-	49,727,4
M	fetallic ores and products— Copper ore, raised tons	9,100	
		A. 1001	

TABLE I. Summary of the Mineral statistics of Canada and the Provinces by classes of products, showing quantities and values for the census year 1910.

No.	Materials	Quantity	Value .
	ONTARIO—con.	-	\$
35	Copper in ore	429,500	54,546
36	Cold one lode or voin reised	1,460	27,828
37	Cold lode or wein fine	1,388 271,898	21,626
38 39	Iron ore, marketed	276,064	-
-	Products of treated ore-	007 700	623, 127
40	Iron ore	$267,782 \ 7,177$	307, 556
41 42	*Pig iron	97,656	1,584,236
43	Tood one	100 656,466	2,000
44	Nickel-copper ore raised	629,965	_
45	Products of treated ore—		4 505 050
46	Conner in ore	23,030,123 5,196,000	1,727,259 $389,672$
47 48	Copper in matte lb. Nickel in ore lb.	48, 189, 008	7,228,350
49	Niekel in matte	5,576,000	836,458
50	Silver achalt are raised	211, 199 206, 371	_
51	Silver-cobalt ore, marketed	200,511	_
52	Silver ore	3,993	859,429
5 3	Silver in ore	25,613,304 5,542,900	13,070,698 2,860,066
54 55	Silver in matte. " Silver, fine. Oz.	1,642,641	847,063
56	Nickel in ore	1,401,244	211,505
57	Cobelt	3,138,275 350	52,467 11,200
58	Zinc ore tons	000	•
59	Communication or tons	7,349	22,047
60	*Commdum (in grain)	3,367,650	178,073 115,388
61	All other	_	
621	*Carbido of calcium	40.000	215,457
63	*Coke. tons Natural gas. c. ft.	42,000 6,834,381,635	189,000 1,312,262
64 65	*Illuminating oil	-	2,609,130
66	*D-04	10 400 000	6,120
67	Petroleum (crude) gal.	10,428,238	463,498
68	Pigments— Cobalt and nickel oxides tons	55	47,036
5	thusturel materials of stone and clay—	_1	820,310
69 70	*Cement blocks and tiles. bbl. Cement, Portland. bbl.	2,528,463	3, 145, 934
71	Brick, pressed	366,044,805	2,940,895
72	Brick, pressed	66,624,550 $10,424,261$	593,726 $79,714$
73 74	Brick, silicate	4,000	200
$7\overline{5}$	Brick all other	66,700	11,180
76	Drain tile	$\begin{vmatrix} 33,146,392 \\ 95,000 \end{vmatrix}$	728,309 $2,701$
77 78	Tile, all other	30,000	307,341
79	Pottery	- }	95,000
80	Terra cotta		66, 597 97, 620
81 82	Clays	6,170	45,300
83	Granite naving blocks no	443,000	34,977
84	Time bu.	2,597,297 431,597	519,386 759,059
85 86	Limestone (dimension)	1,075	59,000
87	Rubble and other stonetons	929, 566	406,910
88 89	Sand and gravel tons Sandstone c. yd.	684,757 37,598	289,089 184,398
90	*Stone, artificial		95,57
91	*Stone. cut	4 000	825, 26
92	Stone, all other tons	4,800	4,000
93	Miscellaneous products— Arsenic (white)tons	954	46,304
94	Feldspar	16,623	56,05

TABLE I. Summary of the Mineral statistics of Canada and the Provinces by classes of products, showing quantities and values for the census year 1910.

No. Materials	Quantity	Value
ONTARIO—con.		8 .
96 Graphite (crude)	5,431	15,410
97 Graphite, manufactures of Gypsum (crude) tons	· -	40,000
99 Limestone for flux	38,710 176,865	90,180 139,321
100 Mica (crude) " 101 Mica, cut or ground "	580	76,230
102 Mineral earth tone	16	293,787 80
103 Mineral water gal. 104 Moulding sand tons	1,209,294 1,200	137,600
105 Phosphate (anatite) "	61	3,050 11,344
106 *Plaster and other manufactures of gypsum. Pyritestons	29,365	104,685 83,572
108) Salt	80,360	614,496
109 Silica (quartz) " 110 Talc. "	11,950 8,486	27,520 $23,110$
PRINCE EDWARD ISLAND	0,100	
i i		12,320
Structural materials of stone and clay— Brick, commonno.	100 000	1 000
Lime	180,000 29,250	1,620 10,700
QUEBEC	-	11,002,232
1 Metallic ores and products—	• .	
2 Copper oretons 3 Iron ore (titaniferous)	1,612	4,836
4 Iron ore (bog)	4,080 716	2,290 21,480
Abrasive products— 5 Pulpstones	00,000	, ,
Pigments—	20,000	12,000
6 Barytes (crude)	3,500 1,000	7,000 15,000
8 Ochres	745	11,175
9 Carbide of calcium	_	300,000
10 Natural gasc. ft Structural materials of stone and clay—	1,000,000	300
11 *Cement blocks and tiles		488,374
12 Cement, Portland. bbl. 13 Brick, common. no.	1,119,592 $128,657,381$	1,399,491 824,738
14 Brick, pressed	3,000,000	30,000
16 Sewer pipe	10,000,000	178,365 145,117
17 Pottery 18 Fireclay	-	244,735
19 Granitec. vd.	32,011	$28,936 \\ 220,915$
20 Granite paving blocks no. 21 Lime bu	120,000	7,360
22 Limestone (dimension)	$\begin{array}{c} 1,193,116 \\ 262,053 \end{array}$	316,327 $772,592$
23 Marble c. yd. 24 Rubble and other stone tons	25,000	150,000
25 Sand and gravel"	47,790 $220,150$	65,450 $344,890$
26 Slate. sq. 27 *Stone, cut.	3,959	18,492
Miscellaneous products— 28 Asbestos. tons	-	1,120,765
29 Asbestic	100,247 $24,751$	3,595,048 18,589
30 Graphite (crude)	299	33,469
32 Limestone for flux	$14,751 \ 22,628$	11,200 11,006
33 Mica (crude) " 34 Mica, manufactures of …	603	100, 119
35 Feldspar tons	490	90, 147 9, 800
36 Mineral water gal. Phosphate (anatite)	358,763	65,995
38 *Plaster and other manufactures of gypsum	1,335	12,655 82,000
39 Pyritestons	45,648	241,576

TABLE I. Summary of the Mineral statistics of Canada and the Provinces by classes of products, showing quantities and values for the census year 1910.

Vo.	Materials	Quantity	Value
			\$
	SASKATCHEWAN	-	541,671
1 2	Fuel and light materials— Coal, lignite, raised	178,046 164,505	267,596
3 4 5 6 7	Structural materials of stone and clay— Brick, common	16, 905, 000 7, 600, 000 50, 000 50, 000	171,350 99,000 875 2,000 850
	YUKON	_	4,550,346
1 2	Metallic ores and products— Copper-gold ore, raisedton, Copper-gold ore, marketed	5,000 4,738	` . - -
3 4 5	Products of treated ore— Copper in ore lb. Silver in ore oz. Gold ore, lode or vein, raised ton: Gold ore, lode or vein, marketed tons	372,417 2,605 1,145 1,145	29,34 1,433
7 8 9 10	Products of treated ore— oz. Gold, lode or vein, fine. oz. Lead in ore. lb. Silver in ore. oz. Gold, placer, fine. oz. Silver fine. "	961 79,000 53,326	16,34 1,05 27,85 4,361,13 19,98
1.1 12 13 14	Fuel and light materials—		13,20

^{*}Full statistics of products marked with a star are given in tables of manufactures.

TABLE II. Capital employed in buildings and plant in 1900 and 1910, by classes of minerals and mineral products, for Canada.

Kind of ore or mineral.		1910.	1900.		
	Mines or works.	Value of buildings and plant.	Mines or works.	Value of buildings and plant.	
Total	2222	108,506,051	1373	42,771,80	
Asbestos and asbestic	17	2,585,840	6	278,00	
*Asbestos, manufactures of	9	483,222	• [2.0,00	
Carbide of calcium	5	286,682	2	2	
*Cement, Portland	82 24	513,650	2_	2	
Clay products	489	10,482,167 $10,752,227$	272	574,09	
Coal and coke, bituminous	94	38,625,349	573 41	4,210,24 $25,360,76$	
Coal, lignite	128	4,682,189	14	17,02	
Copper ore	4	97,000	20	795,30	
Copper-gold ore	14	5,635,251	ī	100,00	
Felsdpar.	.3	10,800	2	2	
Gold ore, lode or vein	40	1,996,735	71	2,770,86	
Gold, placer Granite	268	9,405,594	71	4,996,71	
Graphite (crude)	37 6	402,649	19	87,99	
Graphite, manufactures of	3	$\begin{bmatrix} 257,000 \\ 125,326 \end{bmatrix}$. 2	2	
Grindstones and pulpstones	8	193, 200	6	18,35	
Gypsum (crude)	19	538,516	9	39, 150	
Iron ore	13	1,439,003	11	768, 59	
Lime	102	885,276	163	202,85	
Limestone (dimension)	124	1,034,554	98	208, 19	
Limestone for flux	. 3	3	5	8,00	
Manganese Marble	2	2	3	5,30	
Mica and phosphate (apatite).	5 26	116,500	4	4	
Mica, manufactures of	13	175, 454	26	25,073	
Mineral water	- 12	$\begin{array}{c} 49,012 \\ 251,938 \end{array}$	12 8	12,610 $131,100$	
Miscellaneous	21	2,996,343	19	415, 28	
Moulding sand	2	2,000,010	4	410,20	
Natural gas	110	1,546,569	13	368, 52	
Nickel and copper ore.	5	1,494,454	6	123, 188	
Petroleum (crude)	219	1,303,768	4	4	
Pyrites	5	649,400	2 5		
Rubble and other stone.	32	201,314 $575,853$	١	5	
Salt	9	857,349	9	558, 19	
Sand and gravel	101	384,690	81	17, 93	
Sandstone	- 22	121,000	32	66, 95	
Silica (quartz)	3	8,000	2	20,000	
Silver ofe	2	2	7	50,500	
Silver-lead ore	44	2,441,477	4	4	
Silver-lead oreStone artificial	27	2,239,714	35	651,224	
Stone cut, manufactures of	3	3,324	4 [4	
Tale	66	2,643,662	24	9,785	
	3	14,000	²	2	

Included in copper ore.
 Not reported in 1900.
 Included in mica and phosphate.
 Included in limestone (dimension).
 Included in limestone and sandstone
 Included in limestone and sandstone
 Included in limestone (dimension).
 Included in limestone (dimension).
 Included in limestone (dimension).

TABLE III. Salaries and wages of persons employed, compared for 1900 and 1910 by classes of ores and mineral products for Canada.

		19	10		٠	190	. 00	
Kind of ore or mineral.		fficers salaries		ployees wages.		ficers salaries		ployees wages
	No.	Salaries	No.	Wages	No.	Salaries	No.	Wages
		. \$		\$		\$		\$
Total	2,884	3,317,030	67,150	39,129,941	1,527	1,512,821	37,065	16,336,27
Asbestos and asbestic	79	103,277			48	29,597	775	194,00
Asbestos, manufactures of Carbide of calcium	$\begin{vmatrix} 22 \\ 21 \end{vmatrix}$	25,340	150	79,927	4	4	4	10.05
Cement blocks and tiles	83	25,648 77,273	186 884	92,441 387.114	4	_	90	19,67
Cement, Portland	129	166,099			37	37,482	521	194,33
Clay products		457,741	9,137	3,223,676	` -	01,402	6,705	
Coal and coke, bituminous	696	850, 297	25,656	16, 105, 833	315	307,258	13,986	7,133,09
Coal, lignite	96	108, 145	2,445	1,156,860	19	10,085		
Copper ore	6	4,830		41,957	70	116,505	1,148	937,46
Copper-gold ore	84	158,660		2,062,281	1 2	1 2	1 2	
FeldsparGold ore, lode or vein	2 30	3,120 $56,871$	$\frac{82}{691}$	38,546 $647,218$	239	321,499		2,204,23
Gold, placer	43	79,320	1,709	1,687,898	239 88	72,727	599	249.0
Granite	$\frac{10}{24}$	26,350	851	403,248	30	22,105		
Graphite (crude)	11	13,420	171	(5,419	2	22,100	2	200,0
Graphite, manufactures of	8	10, 196	96	52,591	_	-	5	1,7
Grindstones and pulpstones	16	12,270	232	57,550	12	4,066	94	
Gypsum (crude)	32	28,822	834	371,236	18	12,235	367	101,9
Iron ore	50	48,839	962	524,807	48	37,106		234,58
Lime	82	68,742	934	375,608	52	24,467	695	
Limestone (dimension)	116	70,661	1,764	749,569	112	62,655		542,6
Limestone for flux	3 2	8	2	3 1	6	3,925		51,9
Manganese	13	19 440	185	100 670	5	4,510	29	8,89
Mica (crude) and phosphate (apat-	21	12,440 17,843	342	128,679 104,934	46	92 904		90.74
ite)	[21	17,040	042	104,934	20	23,204	394	89,75
Mica, manufactures of	28	.15,809	827	116,953	24	13,200	240	42,29
Mineral water	42	46,379	117	44,497	15	7,300		15.09
Miscellaneous	68	86,975	1,458	856, 152	37	30,578	427	131,1
Moulding sand	2	2	2	2	-	-	5	1,0
Natural gas	27	17,825	191	84,179	10	9,158	13	
Nickel and copper ore	69	89,261	1,315	922,703	60	77,359	1,180	674,8
Petroleum (crude)	20	13,290	420	178,308	•	4	4	1
Plaster and other manufactures of	0.1	00.000	007	100 005	ام	F F.F.O.	100	,
gypsum Pyrites	31 6	32,638 11,136	$\frac{287}{281}$	139,235 131,670	.9	5,752	105	32,5
Rubble and other stone		25,298	648	280,341	اه	6	6	
Salt	27	29,964	178	91,711	29	21,620	179	64.8
Sand and gravel	31	27,615	622	279, 402	10	4,060		
Sandstone	19	15,890	410	161,622	35	17,885		
Silica (quartz)	1	420	19	914	2	2	2	
Silver ore	2	2	2	2	19	21,945	119	100, 18
Silver-cobalt ore	176	290,479	3,011	2,689,671	4	4	1 4	
Silver-lead ore	34	51,372	833	875,540	126	208,488	1,272	1,324,79
Stone, artificial	5	6,680	39	25,636	4	4	4	
Stone cut, manufactures of	111	129,795		1,147,171	8	6,050	.63	24,6
Talc,	-	-	19	8,308	2	2	1 2	I

Included in copper ore.
 Included in miscellaneous.
 Included in limestone (dimension).
 Included in limestone and sandstone.
 Full statistics of products marked with a star are given in tables of manufactures.

TABLE IV. Classes of mineral products compared for 1900 and 1910 for Canada and the provinces.

	í	
		•
	Value	Value
Classes of products.	of products	of products
	1900.	1910.
•		
	\$	\$
Canada	47,950,862	122,004,93
Metallic ores and products	25, 161, 151	48,978,79
Abrasive products.	125,575	431,97
Fuel and light materials	14,095,477	37,514,10
Pigments	18,822	80,21
Structural materials of stone and clay	6,483,970	27,957,60 $7,042,25$
British Columbia.	2,071,867 14,679,777	24,581,33
Metallic ores and products	10,559,369	13,455,62
Fuel and light materials	3,902,438	8,413,09
Structural materials of stone and clay	187,370	2,711,36
Miscellaneous products	30,600	1,25
Manitoba	216,830	2,928,31
Structural materials of stone and clay	1 216,830	2,635,81
Miscellaneous products New Brunswick	650 670	292,50 $1,087,11$
Metallic ores and products	650,679 100,000	49.03
Abrasive goods	38,400	73,36
Fuel and light materials	17,479	321,51
Structural materials of stone and clay	262,408	395,21
Miscellaneous products	232,392	248,00
Nova Scotia	9,042,003	17,059,12
Metallic ores and products	1,277,349	294,92
Abrasive goodsFuel and light materials	30,612 7,366,165	31,10 $15,468,66$
Pigments	1,772	15,405,00
Structural materials of stone and clay	230,664	798.98
Miscellaneous products	135,441	465,45
Ontario	10,417,576	49,727,40
Metallic ores and products	3,767,054	30,693,46
Abrasive goods	56,563	315,50
Fuel and light materials	2,072,200	4,795,46
Pigments Structural materials of stone and clay	3,634,148	47,03 $12,112,48$
Miscellaneous products	887 611	1,763,44
Prince Edward Island	887,611 15,735	12,32
Structural materials of stone and clay	15,735	12,32
Quebec	2,960 704	11,002,23
Metallic ores and products	293,936	28,60
Abrasive goods		12,00
Pigments Fuel and light materials	17,050	33, 17 300, 30
Structural materials of stone and clay.	1,863,895	6,356,54
Miscellaneous products	785,823	4,271,60
Alberta		10,515,07
Metallic ores and products	_	
Fuel and light materials	686,645	7,854,2
Structural materials of stone and clay	32,000	2,660,79
Saskatchewan	91,470	541,6
Fuel and light materials	50,550	267,59
Structural materials of stone and clay	40,920	274,07 $4,550,34$
Yukon	9,163,443 9,163,443	4, 457, 14
Fuel and light materials.		93, 20
A WOLDING THE TOTAL CONTROL OF THE TOTAL CONTROL OT THE TOTAL CONTROL OF THE TOTAL CONTROL OF THE TOTAL CONTROL ON		100,20

TABLE V. Classes of ores and products, exclusive of manufactures, compared by quantities and values in 1900 and 1910 for Canada.

		191	0.	1900.		
Classes of ores and other products.		Quantity.	Value.	Quantity.	Value.	
			8 `		. \$	
Canada		-	112,775,636	-	45,402,602	
Metallic—		- 321	48,978,790 18,589		25, 161, 151 400	
Cobalt	lb.	3,138,275 $2,332$	52,467 15,736	118,771	1,803,864	
Copper	lb.	71,160,184 7,177	7,565,816 307,556	15,607,364	1,415,754	
GoldPig iron from Canadian oret	oz.	529,049 97,656	10,302,973 1,584,236	881,278 152,029	14,493,417 2,316,525	
Iron oreLead ore	"	$350,228 \\ 6,198$	802,197 $152,425$	283, 124	436,720	
Nickel	lb.	34,477,100 55,166,252	$\substack{621,596 \\ 8,276,313}$	5,725,680 7,180,000	155, 523 757, 506	
Silver oret	oz.	4,005 $35,302,643$	860,807 18,038,433	79,220 1,157,807	3,110,499 665,943	
Zinc ore	lb.	6,967,983	24,880 354,766	250	5,000 13,070,434	
Non-metallic—	ons	954	37,435,461 46,304	500 300	3,000 22,725	
Asbestos.		100,247 $24,751$	3,595,048 18,589	22,922	416,832	
Coal and coke	"	13,531,012 7,349	32,580,841 $22,047$	4,855,077	12,023,277	
Corundum (in grain)	lb. tons	3,367,650 17,113	178,073 65,855	$868,000 \\ 1,213$	43,429 1,820	
FluorsparGraphite	".	175 5,730	700 48,879	3,000	48,000	
Grindstones	no.	25,272 21,600	76,465 4,000		41,400	
Gypsum	tons	520,804 1,183	598,312 176,349	209,356 4,481	194, 128 272, 016	
Phosphate (apatite)		1,396	23,999 80,211	495	3,807 18,822	
Ochres and iron oxides	tons	1,745 3,500	26,175 7,000 47,036	$1,182 \\ 1,286$	13,830 $4,992$	
Miscellaneous— Mineral water		55 - 1,568,057	3,036,629 203,595	983,868	704,536 97,638	
Natural gas Peat.	e. ft.	6,910,381,635 1,500	1,335,062 $6,120$	150	139,703 450	
Petroleum	gal. tons	10,480,238 - 77,813	467,498 328,648	15	105	
SaltSilica (quartz)\	"	80,360 11,950	614,496 27,520	5,000	345,148 6,500	
Talc	"	8,656 816	$23,610 \\ 5,080$	$1,000 \\ 1,153$	4,000 27,612	
All otherStructural materials of stone and clay—	" : : · · ·	30,500	$\begin{array}{c} 25,000 \\ 23,244,545 \end{array}$	8,351	83,380 $6,447,659$	
Clay products.—	bbl.	4,385,879	5,851,066		765,876	
Brick, common	no.	689,806,815 110,684,980	5,570,914 1,186,625	371,202,668 14,444,000	2,196,239 134,336	
Brick, silicate	"	33,474,261 3,172,700		5,773,000	73,575	
Fireproofing and terra cotta Pottery			283, 107 362, 735	_	48,000 226,020	
Sewer pipe. Tile, drain.	<i>.</i> .		623,458 1,008,670	22, 195, 200	369, 631 252, 116	
Lime Limestone for flux	bu. tons	5,271,897 200,293	1,183,131	3,201,494 78,462	523,862 68,351	
Moulding sand		1,200 1,314,053	3,050	3,055	2,138	

TABLE V. Classes of ores and products, exclusive of manufactures, compared by quantities and values in 1900 and 1910 for Canada.

Classes of ores and other products.	_ 191	0.	1900.		
Classes of ores and other produces.	Quantity.	Value.	Quantity.	Value.	
· ,		\$		\$	
Sand and gravel tons Slate sq. Stone—	2,939,205 3,959	2,330,458 18,492	272, 192 5, 000	38,166 21,000	
Granite	, 59,613 601,181	405,991 $42,337$	89,825	, 604, 136	
Limestone (dimension)	891, 264 26, 485	2,043,691 215,000	325,888	816, 526	
Sandstone" Stone, artificial	158,336	585, 225 95, 577	50,681	206,443	
Stone, all other tons	4,800	4,000	1	1	

¹ Not reported in 1900. ² Included with asbestos in 1900.

TABLE VI. Classes of ores and other products, including manufactures, compared by quantities and values in 1900 and 1910 for Canada.

	. 1910		190	00
	Quantity.	Value.	Quantity.	Value.
•	-	\$		8
Canada	-	122,004,932	· ⁻	47,956,865
Metallic ores and products—	3,138,275	48,978,790 52,467	_	25, 161, 151
Copper ore tons Copper in matte or concentrate. lb.	2,332 16,502,312	15,736 1,873,323	118,771 15,607,364	1,803,864 1,415,75
Copper in ore	27, 285, 684 27, 372, 188	2,230,675 3,461,818	10,001,001	
Ferro-silicon	199,081	307,556 3,995,312	251,902	4,496,68
Gold in matte or concentrate oz.	79,344 250,624	1,596,360 4,711,301	12,509 616,867	250,17 9,746,56
Gold, placer, fine	350, 228	802, 197	283, 124	436, 72
Lead ore tons Lead in ore lb.	6,198 $32,016,742$	152,425 549,589	2 70± 600	155 05
Lead in matte or concentrate	2,578,828 49,590,252	72,007	5,725,680	155, 258
Nickel in matte or concentrate	5,576,000 97,656	836, 458 1,584, 236 860, 807	7, 180, 000 152, 029 79, 220	$\begin{array}{c} 757,500 \\ 2,316,523 \\ 2,110,40 \end{array}$
Silver ore. tons Silver in ore. oz Silver in matte or concentrate. oz.	4,005 27,139,089 5,901,223	13,832,378 3,048,445	1,157,807	3,110,49 - 665,943
Silver, fine. oz. Zinc ore tons	2,262,331 920	1,157,610 24,880	250	5,00
Zinc in ore	5,805,418 1,162,565	306,298 48,468		-
Miscellaneoustons	4,821	11,018,589	-	40
Abrasive products—tons	7,349	431,973 22,047	-	125,57
Corundum in (grain). 1b. *Emery wheels.	3,367,650	178,073 2146,388	868,000	43,429 13,13
Grindstonestons Infusorial earth and tripolitetons	5,272 800	64,465 5,000	1,153	41,400 27,61
Pulpstones tons Whetstones no.	20,000 21,600	12,000 4,000	5	. 5
Fuel and light materials—.	,	37, 514, 108	_	14, 095, 47
*Carbide of calciumtons Coaltons	10,050 12,617,125	515,457 29,127,417	1,351 4,710,664	79,30, 11,465,90
Coke tons *Peat tons	913,887 1,500	3,453,424 6,120	144,413 150	557,36 45
Petroleum (crude) gal. *Petroleum, products of	10,480,238	467,498 2,609,130	-	1,862,74
Natural gasc feet	6,910,381,635	1,335,062	-	139,70
Pigments— Barytes tons	3,500	80,211 7,000	- 1,286	18,82 6,99
Iron oxidetons Nickel-cobalt oxidetons	, 1,000 _55	15,000 47,036	. 1	1
Ochrestons	. 745	11,175	1,182	13,83
Structural materials of stone and clay—	689,806,815	27,957,600 5,570,914	371, 202, 668	6,483,970 2,196,239
Brick, fire	651,500 110,684,980	11,624 $1,186,625$	14,444,000	134,336
Brick, silicate	33,474,261	314,589 3,464	1 1	1 1 70 57
Brick, all other no. Tile, drain no.	3,066,700 49,106,392	41,180 1,005,849	5,773,000 22,145,700	73,575 $251,349$
Tile, all other	96,819	2,821 155,936	49,500	767 1
Fireproofingno.	2,979,600	215,510 $262,735$	-	226,020
Sewer pipe. Terra cotta.	- 1	623,458 67,597		369,631 48,000
Cement, natural rock bbl. Cement, Portland bbl.	4,385,879	5,851,066	121,000 414,055	106,800 765,876

Classes of ores and other products, including manufactures, compared by quantities and values in 1900 and 1910 for Canada. TABLE VI.

	1910		1900	
	Quantity.	Value.	Quantity.	Value.
	-	8		. 8
Granitec.yd. Granite paving blocksno.	59,613	405,991	89,825	(04, 13
Granite paving blocks no.	601, 181	42,337	1	1
Lime bu.	5,271,897	1,183,131	3,201,494	523,86
Limestone (dimension)c.yd.	891,264	2,043,691	325,888	816,52
Marblec:yd.	26,485	215,000	1	1
Rubble and other stone tons	1,314,053	753, 148	216,508	101,24
Sand and gravel tons	2,939,205	2,330,458	272,192	38,16
Sandstonec. yd.	158, 336	585, 225	50,681	206,44
Slate sq.	3,959	18,492	5,000	21,00
*Stone, artificial	1	95,577	1	21,00
*Stone, cut	_ [2,980,653	1	1
Stone, all othertons	4,800	4,000	1	1
iscellaneous products—	_	7,042,250	_	2,071,86
Arsenic (white) tons	954	46,304	300	22,72
Asbestos tons	°100, 247	3,595,048	22,922	416,83
Asbestic tons	24,751	18,589	,	110,00
Dolomite tons	30,000	24,000	1	1
Feldspar tons	17, 113	65,855	1,213	1,82
Fluorspar tons	175	700	1,210	1,02
Graphite (crude) tons	5,730	48,879	3,000	48,00
Graphite, manufactures of	١,٠٠٠	51,200	- 0,000	7.00
Gypsum (crude)tons	520,804	598,312	209,356	194.12
Limestone for flux tons	200, 293	151,077	78,462	68,35
Manganese ore tons	50	1,000	6,013	61.08
Mica (crude) tons	1,183	176,349	4,481	272.01
*Mica cut or ground	-,	383, 934	2, 101	406.57
Mineral earth tons	16	80	1	100,07
Mîneral water gal.	1,568,057	203, 595	983,868	97,63
Moulding sand tons	1,200	3,050	3,055	2,13
Phosphate (apatite) tons	1,396	23,999	495	3,80
Plaster and other manufactures of gypsum	1,000	656,005	450	88,70
Pyritestons	77.813	328,648	15	10.
Salttons	80,360	614,496	56,824	
Silica (quartz)tons	11,950	27,520	5,000	345, 14
rale tons	8,656	23,610	1,000	6,500
Actinolitetons	0,000	20,010		4,000
Chromic iron ore tons	2	9	$\frac{500}{1,338}$	3,000
Soapstonetons	,	8		20,300
Japanono Tons	• • •	°	1,000	2,000

Not reported in 1900.
 Included in silver ore.
 Not reported in 1910.
 Included in asbestos.
 Included in grindstones.
 Full statistics of products marked with a star are given in tables of manufactures.

TABLE VII. Imports of minerals and mineral products by quantities and values compared for 1910 and 1900.

No.	Classes of minerals and mineral products.	1900. (Fiscal year).		1910 (Fiscal year).	
		Quantity.	Value.	Quantity.	Value.
			\$		\$
1 2 3	Metallic ores and products— Copper, pig, scrap, etclb. Gold coin	1,144,000	180,990 _	4,690,700	617,630 4,998,236 516,581
5 6 7	Ferro products tons Lead tons	1,149	39,064	1,377,035 243,859 14,952 9,083	3,364,847 332,486
8 9 10	Nickel	2,874,800 583,600	6, 988 156, 167 29, 416	3,504,000 13,200,100 19,464,400	689,002 23,266 201,777 658,285 *403,283
12 13	Antimony. 10. Abrasive products— Grindstones	186,997	20,001 34,382	563,662	40,681 73,427
14 15 16 17	Burrstones. Emery, crude. Emery, manufactures of. Pumice stone.	· -	1,546 19,312 25,615 5,604	, - - -	1,973 28,482 73,537 12,011
18 19 20 21 22	Fuel and light materials— tons Coal	4,787,479 187,878 9,633,647 47,400 27,663	12,510,473 506,839 864,833 3,529 3,671	10,597,982 702,053 60,017,066 429,801 164,822	*28,450,001 1,695,603 3,442,604 27,296 20,842
23 24	Mineral pigments— Barytestons Ochreslb.	2,474,537	32,017	629 3,683,344	14,735 44,190
25 26 27 28 29 30	Structural materials of stone and clay— Brick and tile. Brick, paving. Brick, fire. Cement, hydraulic. Cement, Portland. Clays	2,175 10,418 1,301,361	145, 914 35, 644 39, 535 4, 711 498, 607 122, 965	5,880 490,809	1,341,310 138,763 519,454 553 158,487 218,232 2,739
31 32 33 34 35 36 37	Drain tile. Earthenware and pottery. Firoclay. Lime. bbl. Sand and gravel tons Sewer pipe. Slate.	12,865 35,713	1,383 959,526 59,291 11,211 41,280 37,766 53,707	191,537 151,982	2,739 1,859,302 86,151 116,964 155,012 196,002 136,401
38 39 40 41	Stone. Miscellaneous products— Asbestos. Ib. Creabite	230,730	215,652 43,455 11,035 64,955	328,629	703,877 198,710 12,895 99,997
42 43 44 45	Gypsum (crude) tons Gypsum, ground lb. Gypsum, manufactures of lb. Manganese lb.	$\begin{array}{c} 77 \\ 6,300 \\ 849,100 \\ 126 \\ - \end{array}$	958 69 6,492 725 30,343	3,790 21,417,000 42,095,700 810,529	12,137 17,402 123,965 13,048 188,559
46 47 48 49	Salt lb.	204,582,887 $402,100$ $21,128,656$	325, 433 2,876 215, 433	267,789,900 1,146,000 42,943,340	465, 253 9, 531 430, 632

^{*} Quantities and values of products marked with a star are for the calendar year.



TABLE VII. Exports of minerals and mineral products by quantities and values compared for 1910 and 1900.

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No.	Classes of minerals and mineral products.	1900 (Calendar year)		1910 (Calendar year)	
		Quantity.	Value.	Quantity.	Value.
į			\$		8
1 2	Metallic ores and products— Aluminium, crude	1		7,722,400	1,160,24 3,74
3 4 5	Antimony tons Copper lb. Gold	210 23,631,523	3,441 1,741,885	239 56, 964, 127	14,09 5,840,55 5,491,05
6 7 8 9	Iron ore tons. Pig iron tons Lead lb. Nickel lb.	5,527 3,513 57,642,029	13,511 88,052 1,917,690 1,031,030	114,499 9,763 7,759,053 36,014,782	324,18 296,31 249,48 4,030,04
10 11 12	Silver Abrasive products— Corundum tons Grindstones	302	2,341,872 - 42,128	1,764	15,649,53 - 23,50
13 14	Fuel and light materials— Coal tons Coke tons	1,787,777 41,529	131,278	2,377,049 57,971	250,71
16 17	Petroleumgal. Mineral pigments— Iron oxides, etctons Barytestons	8,559 . 651	- 2,396 - 7,154	2,818 1,746 5	29,83
18 19 20	Structural materials of stone and clay— Cement	546	3,296 4,528 80,852	390	12,9 2,76
21 22 23	Sand and graveltons Stone, unwrought Stone, wrought	197, 558 - -	101,666 115,711 5,993	624,824 - -	44,76 $407,97$ $22,11$ $5,35$
24 25 26	Miscellaneous products— Arsenic	16,993	693, 105	4,512,673 71,845	173,93 2,108,63
27 28 29	Feldspartons Graphite (crude)tons Graphite, manufactures of	379 1,550	$\begin{array}{c} 1,116 \\ 40,132 \\ 6,065 \end{array}$	15 15,601 788	13 47,90 53,00 66.6
30 31 32	Gypsum (crude)tons Gypsum, cut or ground Manganesetons	188, 262 - 34	201,912 19,834 1,720	346,081 - 4	416,75 12,30
33 34 35	Micatons Pyritestons Saltlb.	17,620 2,108,568	146,750 41,182 8,997	469 30,434 275,200	330,90 110,00 2,61