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PRELIMINARY REPORT

ON THE

MINERAL PRODUCTION OF CANADA

DURING THE SIX MONTHS ENDING

JUNE 30, 1927

(With Revised Statistics for the Calendar Year 1926)

AUGUST 22 1927

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Special edition prepared for distribution at the Second (Triennial) EMPIRE MINING AND METALLURGICAL CONGRESS August-September, 1927

LIST OF PUBLICATIONS

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MINING, METALLURGICAL AND CHEMICAL BRANCH DOMINION BUREAU OF STATISTICS

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General Reports-

Preliminary Reports (semi-annual) on the Mineral Production of Canada.

Annual Report on the Mineral Production of Canada. (In one volume).

PART ONE-PRODUCTION STATISTICS-General Statistical Review of the Mineral Production of Canada.

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PART Two-General Statistics.—Text and tables presenting general reviews of the

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Monthly Report on Coal and Coke Statistics for Canada.

General review for the month with tables showing comparative data for the month and year to date, output by coal-mining districts and by provinces, imports and exports by ports and by kinds of coal. In this report there is also a section showing statistics on production, imports and exports of coke for the month and year to date by provinces.

Annual Report on Coal Statistics for Canada.

Text and tables showing, for Canada, and for each of the coal-producing provinces, historical and current data on output, tonnage lost, disposition of coal from the mines, domestic and foreign shipments, exports and imports by ports, consumption of coal, prices, employment, saharies and wages paid, power equipment, capital investment, etc.

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(a) PRODUCTION-

Metals.—Arsenic — Cobalt — Copper — Gold — Iron Ore — Lead — Nickel — Metals of the Platinum Group—Silver—Zinc—Miscellaneous Non-Ferrous Metals including Aluminium, Antimony, Chromite, Manganese, Mercury, Molybdenum, Tin, Tungsten.

Non-Metals.—Asbestos — Coal — Feldspar — Gypsum — Iron Oxides — Mica — Natural Gas — Petroleum — Quartz — Salt — Talc and Soapstone — Miscellaneous Non-Metallic Minerals including Actinolite, Barytes, Corundum, Fluorspar, Graphite. Grindstones, Magnesite, Magnesium Sulphate, Mineral Waters, Natro-Alunite, Peat, Phosphate, Pyrites, Sodium Carbonate, Sodium Sulphate, Tripolite. Structural Materials.—Cement—Clay and Clay Products—Lime—Sand and Gravel—

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(b) ANNUAL INDUSTRIAL REVIEWS-

The Gold Industry—Copper-Gold-Silver Industry—Nickel-Copper Industry—Silver-Cobalt Industry—Silver-Lead-Zinc Industry.

(c) Annual Provincial Reviews on the Mineral Industry—Nova Scotia—New Brunswick—Quebec—Ontario—Manitoba—Saskatchewan—Alberta -British Columbia-Yukon.

PREFACE

To provide a more comprehensive survey of Canada's mineral industry than is usually made at the end of the half-year, the present report, specially prepared for distribution to the delegates attending the Second (Triennial) Empire Mining and Metallurgical Congress, being held this year in Canada, contains data on all products obtained from Canadian mines in 1926, with comparative figures for 1925. Supplementing this information, production statements, and imports and exports figures, show the progress made in metal and non-metal mining during the half-year, January 1 to June 30, 1927. Following the practice adopted in the preparation of half-yearly statements in previous years, the statistics of clay products and other structural materials, have been omitted from the record for the six months' period, as lime, stone, sand and gravel, brick and other clay products are produced, for the greater part, during the summer months.

With these modifications from the plan followed in other years, and with the limitations noted, the present report deals with the mineral production of Canada during the six months ended June 30, 1927. A review of the data therein presented shows that the growth of Canada's mining industry, so notable in recent years, is being continued without abatement. Metal mining in particular, because of the successes attained in development and production throughout the industry in Ontario and Quebec, through the progress of the mines and smelters in British Columbia, and as a natural sequence following the discovery of new ore-fields bearing copper and zinc, is attracting public attention to a greater extent in each successive year. Coal production shows steadiness and growth. Other non-metallic minerals reflect the increasing industrial and commercial activities of the nation and contribute in no small measure to the tomages and values of Canada's foreign trade.

The cordial thanks of the Bureau are tendered to the mine and smelter operators, to the Mining Lands Branch of the Department of the Interior, and to the Dominion Department of Mines, for assistance given and information made available. The railway and other transportation companies as well as smelter operators outside of Canada have also furnished data, the receipt of which is gratefully acknowledged.

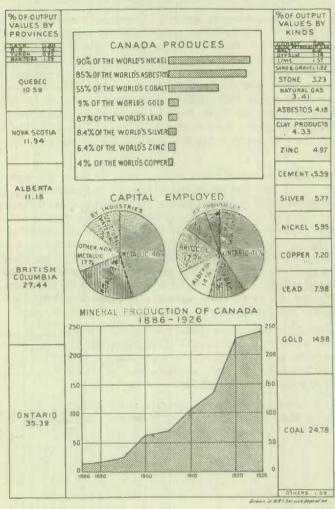
The report has been prepared under the direction of Mr. S. J. Cook, B.A., A.I.C., F.C.I.C., Chief of the Mining, Metallurgical and Chemical Branch of the Bureau.

R. H. COATS,

Dominion Statistician.

Dominion Bureau of Statistics, August 22, 1927.

MINERAL PRODUCTION OF CANADA



DOMINION BUREAU OF STATISTICS

R. H. COATS, B.A., F.S.S., (Hon.,) F.R.S.C., Dominion Statistician

S. J. COOK, B.A., A.I.C., F.C.I.C., Chief of the Mining, Metallurgical and Chemical Branch

PRELIMINARY REPORT

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DURING THE SIX MONTHS ENDING JUNE 30, 1927

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General Review

Summary.—Continuing the progress made in 1926, when the mineral output of Canada reached a new high record value of \$240,437,123, production of metals and non-metals in the first half of 1927 registered a further advance. While the output of gold during the half-year was slightly less than during the first six months of 1926, the production figures for all other metals were higher than they were in the corresponding period of the preceding year. Slightly lower prices reduced the values in a few instances. Production of arsenic, cobalt, copper, lead, nickel, platinum metals, silver and zinc showed definite improvement during the six months' period ending June 30, 1927.

Considered by groups and compared with the corresponding data for 1925 the output values of metals during the calendar year 1926 showed a loss of 1.6 per cent, but this was wholly due to modifications in the methods used in computing values of certain metals noted elsewhere in this report; in particular, the data for copper, lead and zinc are subject to these limitations. Among the non-metals the fuels, including coal, natural gas, peat and crude petroleum, advanced in value 19.8 per cent in 1926 as compared with the totals for 1925; other non-metallic minerals showed 13.7 per cent higher values in the aggregate than during the preceding calendar year. Clay products showed a gain of 8.6 per cent and other structural materials an advance of 5.2 per cent over the totals for 1925. In the aggregate, the mineral production of Canada in 1926 showed a gain of 6.1 per cent over the totals for the preceding calendar year.

For comparative purposes there are shown in the following table the values of production for metals, non-metals, fuels and structural materials from Canadian sources for the past twenty years.

Values of Mineral Production of Canada by Classes 1907-1926

		Non-Mo	etallie		
Year	Metallic	Fuels and other non- metallics	Structural materials and clay products	Total	
	8	\$	8	8	
907	42.426.607	31,275,549	12.863.049	*86, 865, 2	
908	41,774,362	32,142,784	11,339,955	*85,557,1	
909	44,156,841	31.141,251	16,533,349	91,831,4	
910	49,438,873	37,757,158	19,627,590	186,823,6	
911	46,105,423	34,405,960	22,709,613	103, 220,	
912.,,,	61,172,753	45,080,674	28,794,869	E15.048,7	
913,	66,361,351	48,403,709	30,809,752	145,634,2	
914	59,386,619	43,467,229	26,009.227	128,863,	
915	75,814,841	43,373,571	17,920,750	137,109,	
916	106,319,365	53,414.983	17,467,186	177,281,3	
917	108, 455, 147	63,354,363	19.837.311	189,646,5	
918	114,549,152	77.621,946	19,130,799	211.301.5	
919	73.262.793	76,002.087	27, 421,510	176,685,3	
920	77,939,630	108.027,947	41,892,088	227,859,6	
921	49,343,232	87,842,682	34, 737, 428	171,923,3	
922	61,785,707	82.976,794	39,534,741	154,297,3	
923	84,391,218	91,936,732	37,751,381	214,079,3	
924,	102,406,528	71,796,009	35,380,869	289,583,	
925.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	117,082,298	71,851,801	37, 049, 234	226,583,	
926	115,237,581	85,240,144	39,959,398	240,437	

^{*} Total includes \$300,000 allowed for products not reported.

In the half-year ended June 30, 1927, the value of the metals was \$56,468,412, as compared with a total for the first half of 1926 amounting to \$61,249,482, a loss of 7.8 per cent, but here again the loss was more apparent than real, due to the changes in methods of computation referred to above. Fuels at \$35,087,080 during the half-year showed an advance of 16 per cent in their aggregate value in comparison with the corresponding period of 1926. Other non-metals valued at \$7,482,322 showed an improvement of 8.3 per cent over the total for the first half of 1926. Including fuels, the value of the non-metals produced in the first half of 1927 was \$42,569,402, an advance of 14.6 per cent over the total of \$37,146,306 reported in the first half of 1926.

Advances among the non-metallic minerals were general throughout the list. Production during the half-year in comparison with the totals for the corresponding period of 1926, showed gains of 20.6 per cent in the tonnage of coal produced, 13.4 per cent more natural gas, 40.5 per cent more crude petroleum, 21.2 per cent advance in feldspar, 32.6 per cent more gypsum and 55.9 per cent more quartz. Greater outputs were also recorded in the cases of bituminous sands, magnesite, mica, pyrites and sodium sulphate. There was a loss of 6.7 per cent in the tonnage of asbestos produced in the half-year in comparison with the totals for the first half of 1926, but the output of 123,730 tons valued at \$4,685,706 was not much less than half of the 279,403 tons valued at \$10,099,423 produced during the calendar year 1926. While the tonnages both in the half-year and in the preceding calendar year were slightly less than the corresponding figures for the immediately preceding period the values in both cases were greater. In the half-year the value of the asbestos output showed an improvement of 3.8 per cent over the total for the first half of 1926, and in the calendar year 1926 the value showed a gain of 12.3 per cent over the totals for the calendar year 1925.

Graphite, which showed a gain in 1926 of $6\cdot 1$ per cent in tonnage and $22\cdot 7$ per cent in value over the figures for the preceding calendar year, dropped slightly behind this rate of production in the first half of 1927. Barytes, iron oxides, salt, sodium carbonate, talc and soapstone, while produced in fair tonnages during the half-year, were not produced in quite as great amounts as during the first half of 1926.

The Metals in 1926.—More arsenic was produced than in 1925, but the value of the production was restricted owing to the prevailing low prices for arsenic and the relatively high smelter charges for treatment.

Cobalt production was reduced due to the competition from producers in the Belgian Congo. The limited world market for this metal at the present time is fairly evenly divided between Canadian and African producers.

Copper statistics showed gains in every province, but more particularly in British Columbia. The improvement in Ontario figures as now reported, was not so noticeable as it would have been under the former method of computation. That is to say, production of converter copper at the refineries did not show as great improvement as did the output of matte from the smelters. Then, also the more conservative system of evaluation now adopted, whereby copper in matte exported is valued at 10 cents a pound, and the refinery production of copper either as blister or in other forms, is valued at the average price obtained by the producers, tends to reduce the aggregate value for the metal much below the totals recorded formerly, when the copper in matte produced, was valued on the basis of quotations for electrolytic copper.

More gold was produced in 1926 from Canadian ores than in any previous year. Ontario's gold mines continued to make wonderful progress. Mines reached greater depths, and mills, new production records.

The Hollinger, now one of the greatest gold mines in the world, grew steadily during the year. Tremendous tonnages from this, and other mines in the Porcupine and from the smaller but richer mines of the Kirkland Lake area, were put through the mills, to produce Ontario's contribution to the gold supply of the world. When the adjacent territory in Quebec, known as the Rouyn field, begins to produce, the output of copper and gold from this belt will be of great industrial importance. Prospecting and development work has been done in various parts of western and northern Ontario and throughout the new gold-copper area in Quebec with such good effect that many claims have been staked and not a few sold to development companies.

The building of the Noranda smelter in the Rouyn area and the completion of the railway extension to serve this smelter and the area generally, were features of the progress made during the year.

Production of gold from western deposits was only slightly in excess of the figures for 1925. Placer gold from the Yukon showed a marked drop from the total for the preceding year.

Ontario contributed nearly 86 per cent of Canada's output of gold; British Columbia added nearly 13 per cent; the Yukon yielded upwards of 1 per cent. Production from various other sources was very small, even in the aggregate.

Lead production, mostly from Trail, treating Sullivan mine or chiefly but also ores in less quantities from other mines, reached a new tonnage record. Contributing to this new aggregate, in addition to Trail, and the silver-lead-zinc mines of British Columbia, were the Ontario lead mine at Galetta, the Quebec property at Notre Dame des Anges, and the properties in the Mayo district of the Yukon. Ontario's yield was 7·3 million pounds; Yukon added 5·8 million pounds; and Quebec's quota amounted to 3·7 million pounds. Production from British Columbia mines and smelters totalled 266·8 million pounds, thus far surpassing production from all other sources. Canada's output of lead is many times in excess of domestic requirements; as a consequence the exports of lead from Canada to the Orient and to Europe are rather large items in the country's foreign trade.

Exports of nickel in matte and speiss reached greater tonnages in 1926 than in the preceding year but the refinery production dropped below the totals for 1925 so that the aggregates, both for quantity and value, were less than in the preceding year. Despite this seeming setback the nickel-copper industry made very appreciable progress in 1926. Ambitious programs of extension and development were laid out and some of the work was undertaken. Production of high-grade sulphuric acid from the bessemer converter gases was carried on successfully at the Mond smelter and at the end of the year the plant was increased to double its previous capacity.

In 1926 silver provided students of the mineral industry with much food for thought. Disturbances in the Orient, the world's principal market for silver, had an unsettling effect on prices. In China, internal trading was disturbed by the influence of the insurgent element in the population; the necessity for silver for the settlement of foreign trade balances declined with the reduction in trade; the lack of demand in China was reflected in the Indian bazaars; and then came the announcement of the findings of the Royal Commission appointed to inquire into the Indian currency situation. This report was improperly understood at first to mean the abolition of silver as currency in India. As a result of these disturbing factors, the price of silver broke in September and declined still further in the following months to reach 51½ cents in New York in December, a lower level than had been recorded at any time in more than ten years. The drop in price must have cost many companies very considerable sums.

No change has been made in the method of computing quantities of zine in making up the mineral production figures, but a slight change in the method of evaluation is to be noted. In former reports, it was customary to determine the value of the zine production on the basis of prices quoted on the St. Louis market, which is the recognized trading centre for zine in America. But, little Canadian zine is sold either in the United States or on the basis of the markets in that country; most of Canada's exports of zine are marketed in the Orient and in Europe, and in both cases settlement is made on London. So it seemed reasonable and indeed more accurate, to adopt London quotations in making up zine values, and this has been done in the present report.

This change provides a slightly increased value for zinc as London quotations in 1926 were a little higher than the prices listed at St. Louis.

The Non-Metals in 1926.—Non-metallic minerals, including coal, showed a gain of 18.6 per cent in value over the totals for 1925. Most notable of the gains in this list was the increased tonnage of coal produced which showed an improvement of 25.4 per cent.

Feldspar production, too, showed an improvement of 25·3 per cent in tonnage and 31·5 per cent in value. Gypsum shipments were considerably greater in 1926 than in the preceding year and although slightly lower prices prevailed there was a marked increase in the total value. Magnesite showed a lower tonnage but a greater value due to the higher prices prevailing for this commodity. Noteworthy gains were made in the production of natural gas both in quantity and value. About 13·6 per cent more gas was produced and the value of the output was 10·5 per cent higher than the total for the preceding year. Crude petroleum production continued to increase. In fact gains were general throughout the list.

The Structural Materials in 1926.—Clay products and other structural materials reached a value of \$39,959,398, an advance of $6\cdot 1$ per cent over the totals for the preceding year. Cement production showed an increased tonnage but a decreased total value. Lime, sand and gravel and stone showed decided gains. Most of the products of the clay-working industries were produced in larger quantities in 1926 than in the preceding year. Clay products as a whole showed a gain of $8\cdot 6$ per cent in comparison with the totals for 1925.

The Provinces in 1926.—Ontario's production valued at \$84,702,296 made up 35·23 per cent of the Dominion total; British Columbia came second with an output valued at \$65,622,976 representing 27·29 per cent of the aggregate for the Dominion; Nova Scotia with an output valued at \$28,873,792 held third place and contributed 12·0 per cent of the total, closely followed by Alberta with a production of \$26,977,027 constituting 11·21 per cent of the total; Quebec followed with a production valued at \$25,956,193 or 10·80 per cent; Manitoba, Yukon, New Brunswick and Saskatchewan followed in the order named.

Gold, silver, nickel and copper were produced in abundance in Ontario and in addition there was a production of almost every other economic mineral with the exception of coal. British Columbia's output of lead, zinc, copper, gold and silver added greatly to Canada's mineral wealth. Quebec's asbestos fields continued to supply by far the greater part of the world's tonnage of this useful commodity; lead, zinc, gold and silver were also reported. Developments in the Rouyn field in Quebec were watched with interest by the mining world during the year. Much progress was made. Alberta, Nova Scotia and British Columbia produced large tonnages of coal in addition to other minerals. Manitoba's mines yielded gold and silver, but more important perhaps than the actual yield of metals was the fact that Manitoba's mineral area was made the subject of a more intense study during 1925 and 1926, than in any other years so that the prospects of production from this source were very considerably improved. Much money has been spent in the investigation of Manitoba's mineral resources; it seems as though the time is nearly at hand when profitable results may be expected. New Brunswick's coal and building materials added to the total for Canada. Interest in the oil-well developments in Alberta was very keen throughout the year; it is probable that very encouraging progress will be made in the mineral industry in this province in the early future.

Employment.—Employment in the mineral industry in Canada was maintained at about the same average rate throughout 1926 as that prevailing in 1925. The index of employment showed that about 3·5 per cent fewer persons were listed on the rolls of the operating companies in January, 1926, than were shown on the rolls of the same companies in January, 1920. Employment dropped off slightly in the first five months of the year, but beginning in June a gradual improvement set in which carried the index of employment in December, 1926, to 4·2 per cent above the number employed in January, 1920. Non-metal mining, including coal mining, showed greater gains than did the metal mining industries, but probably this was due to the fact that in the preceding year these industries were somewhat depressed while metal mining has been enjoying an era of prosperity for several years.

In the operating mines, quarries and smelters in Canada there are upwards of 65,000 persons employed. This number does not represent the total extent of employment in the mining industry as there are no records available of the numbers engaged in prospecting and general development work on properties that have not reached the producing stage, nor does it include any allowance for those persons who are engaged in the subsidiary industries directly dependent on the mining industry for their continuance, but in these operating mines, quarries and metallurgical works there are approximately 45,000 persons employed in Ontario, British Columbia and Nova Scotia alone. About 20,000 are employed in the metal mining industry and non-ferrous metallurgical works. About 34,000 people are employed in non-metal mining and approximately 11,000 in the production of structural materials and clay products. To all these, salaries and wages totalling approximately 85 million dollars are paid annually. The importance of the purchasing power represented by the employees of Canada's mining industry is sometimes not fully appreciated. Fuel and electricity constitute an expense item reaching a total of almost \$20,000,000 a year; much of the progress that has been possible in the mining industry in recent years has been due to the extensive development of hydro-electric power facilities.

Capital Employed.—Investment in Canadian mines amounts to approximately \$632,075,000; of which \$290,534,965 is invested in metal mining and metallurgical works treating Canadian ores; \$253,023,646 represents the investment in non-metal mines and \$88,516,534 the cost of properties and plants producing structural materials and clay products.

Investments in coal mining account for 23 per cent of the total capital employed in the mining industry. Gold quartz mines represent another 13 per cent of the capital; metallurgical works, 10 per cent; natural gas, 8 per cent; nickel-copper and silver-cobalt, 7 per cent each; cement, 6 per cent; clay products, 5 per cent, and stone, 2 per cent; the other mining industries account for the balance of the capital employed. Ontario mines account for 41 per cent of the total invested in the industry. For the other provinces the relative investments in mining expressed in percentages are as follows: British Columbia, 17 per cent; Alberta, 14 per cent; Quebec, 13 per cent; Nova Scotia, 9 per cent; Yukon, 4 per cent, and New Brunswick, Manitoba and Saskatehewan, the remaining 2 per cent.

	19	25	19	26	Incres	cent ase (+) r ase (-)
	Quantity	Value	Quantity	Value	Quantity	Value
METALLIC Antimony	1,751 3,434,137 19,667 1,116,492 111,450,518 1,735,735 253,590,578 22,350 73,857,114 8,298 8,698 20,228,988 109,268,511	\$ 206 130,302 18,560 2,328,517 15,649,882 35,880,826 11,174 23,127,460 11,176 10,946,072 439,969 1,028,192 13,971,150 8,328,446	1,596 5,074,677 6,440 664,778 133,094,942 1,754,228 20,943 65,714,294 10,024 9,521 22,371,924 149,138,105	\$ 281 140, 811 6, 440 1, 136, 014 17, 490, 300 36, 263, 110 60, 110, 120 19, 240, 664 10, 472 4, 374, 163 610, 178 923, 807 13, 894, 531 11, 110, 413	- 8.9 + 47.7 - 67.3 - 40.5 + 19.4 + 1.0 - 94.8 + 11.9 - 6.3 - 11.1 + 20.9 + 9.4 + 10.6 + 37.2	* 36.4 + 12.6 - 65.4 - 51.2 + 11.7 + 1.0 - 94.9 - 6.3 - 7.3 - 1.4 - 10.2 - 0.6 + 33.4
Total	-	117,082,298		115, 237, 581		- 1.6
Non-METALLIC Fuels Coal	13,134,968 16,902,897 1,370 332,001	49,261,951 6,833,005 8,394 1,250,705 57,354,055	16,478,131 19,208,209 364,444	59,875,094 7,557,174 1,311,665 68,743,933	+ 25·4 + 13·6 + 9·7	+ 21.5 + 10.5 + 4.8 + 19.8
Total		07,002,000				
Other Non-Metallic Minerals Actinolite	40 290, 389 95 1, 148 28, 681 3, 896 2, 569 2, 569 240, 323 740, 323 740, 323 4, 020 190, 134 20 16 15, 605 197, 224 233, 746 1, 120 3, 876 14, 474 160	8, 988, 360 2, 259 4, 514 235, 789 19, 234 158, 763 945 2, 389, 891 122, 325 261, 463 28, 411 1, 000 189 58, 899 363, 612 1, 410, 697 8, 140 19, 380 205, 835 1, 380	80 279, 403 100 528 35, 951 2, 727 64 4 2, 695 83, 728 6, 626 4, 571 2, 545 215, 356 40 17, 845 232, 082 262, 547 595 6, 775 15, 767 15, 767 15	1,000 10,099,423 2,307 2,112 310,238 194,860 151,227 2,770,813 101,843 137,431 229,204 29,721 800 63,899 553,161 1,480,149 5,370 13,550 217,195 630 130,702	+100·0 - 3·7 + 5·2 - 54·1 + 25·3 - 6·1 - 39·1 + 5·2 + 19·3 - 7·0 - 18·1 - 36·7 + 13·2 + 17·6 + 12·3 - 46·9 + 74·7 + 8·9 - 43·8	$\begin{array}{c} +\ 100 \cdot 6 \\ +\ 12 \cdot 3 \\ +\ 2 \cdot 1 \\ -\ 54 \cdot 1 \\ +\ 31 \cdot 5 \\ +\ 22 \cdot 7 \\ -\ 39 \cdot 1 \\ +\ 21 \cdot 7 \\ +\ 15 \cdot 9 \\ +\ 11 \cdot 6 \\ +\ 4 \cdot 6 \\ +\ 4 \cdot 6 \\ -\ 34 \cdot 1 \\ +\ 4 \cdot 9 \\ -\ 34 \cdot 1 \\ +\ 5 \cdot 5 \\ -\ 54 \cdot 4 \\ \end{array}$
Total	-	14,497,746	to starth.	16,496,211	_	+ 13-7
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS Clay Products Brick—Soft mud process Face	27, 701 51, 214 93, 903 116, 105 37, 201 22, 053 524 2, 485 6, 197 6, 197 78, 479 140, 927 14, 552 73, 791 8, 116, 597 10, 258, 542 11, 018, 647 5, 76, 119	521,739 753,970 1,883,856 1,635,257 800,504 270,135 26,320 52,382 305,332 6,544 36,567 1,093,397 1,093,397 6,323 28,338 401,503 1,440,269 267,255 9,529,691	28.235 78.158 101.028 94.040 30.423 19.450 442 4.195 2.513 141.909 17.018 195.011 14.258 75.996 8.707.021 11.825.736 17.112.798 6.397.590	556,573 1,145,490 2,146,362 1,624,055 651,236 260,598 24,057 117,194 5,815 192,276 23,258 54,064 1,313,707 1,542 43,854 49,943 396,018 1,480,776 320,135 150 16,337,323	+ 2·0 + 52·6 + 7·5 - 18·9 - 18·3 - 11·7 - 11·9 + 163·4 + 303·3 + 22·7 - 78·4 + 38·3 - 1 + 2·9 	+ 6.6 + 51.9 + 13.0 - 0.7 - 18.7 - 3.5 - 8.7 + 123.7 + 255.4 + 47.8 + 20.1 - 75.3 + 54.7 - 1.4 + 2.8 + 19.7 + 11.6 + 53.4 + 5.3
	E 706 110	7,464,777	6,397,590	7,865,874	+ 12-1	+ 5.3
Stone	0.700,118	28,119,543		29,602,075		+ 5.2

^{*} See text.

Mineral Production in Canada, by Provinces, 1926

	1								
	Nova Scotia	New Bruns- wick	Quebec	Ontario	Mani- toba	Saskat- chewan	Alberta	British Columbia	Yukon
	8	\$	8	\$	S	S	\$	8	\$
METALLIC Antimony lb.				1 800					
\$	-	-	_	1,596 281		-	,		90.
Arseniclb.	-		-	4,055,477 135,549	_	-	-	1,019,200	-
Bismuth, lb,			_	6,440		-	-	-	-
Cobaltlb.	-	-	_	864,778 1,136,014	_	_			-
Copper 1b.	-		2.674.058	41,312,867 4,828,9 4	-		_	89, 108, 017 12, 292, 450	-
Gold fine oz.	1,678 34,687		3.680	1,497,215 30,950,180	188 3,886		-	225,886	25,601
Iron ore sold for ex-			200	00,000,100	0,000		-	4,669,065	529,220
Lead	-	_	600	7 200 201	-	-	-	_	
Manganese tons		-	251,788	7,398,795 580,730	_	_	1	266,812,461 18,012,509	5,860,373 395,634
5	-	-	-	nep ben		-	_	-	
Molybdenite 1b.	_	_	20,943 10,472	-	_		-	-	-
Nickel Ib.	-	-		65,714,204 14,374,163	_	-	-	-	-
Palladium, Rhod- ium, etc fine oz.		_	-	10.024	des				-
Platinum fine oz.	-	-	_	640, 178 9, 471	-	-	-	-	_
Silver fine oz.	112		375,986	919,349	200	W	_	50 4,258	_
Zinc	70	-	233,513	9.274,965 5,760,402	18	_	_	10,625,816 6,599,378	2,095,027 1,301,159
\$	199	_	12,904,176 956,199	-	1		-	137,033,929 10, F54, 214	-
Total\$	84,757	-	1,897,530	59,332,150	3,897	-	-	51,743,184	2,226,013
Non-METALLIC									
Actinolitetons	-	_		1.000	-	-		-	-
Asbestostons		99	279,389 10,095,488	3,935	-	-	-	-	-
Barytes tons	100 2,307	_	-	-	-	-	-		-
Bituminous sands tons	-	_			es	-	528	-	-
Coal tons	6,747,477 26,845,226	173,111 710,245	_	-	_	439,803	2.112 6.503.705 20,886,103	2,613,719	316
Feldspar tons	-		13,168 111,136	22,783	=	019.800	20,080,103	10, 612, 915	800
Fluorspar tons	-	-		199, 102	_	-	~	_	-
Garnetstons	-	1	-	-	_	_	_	-	-
Graphitetons	_	-	326	2,401	-		_	-	-
Grinding Pebblestons	-	_	29,516	165,341		-	-	-	÷=
Grindstonestons	311	1,684	-	576	-	-	-	700	-
Gypsumtons	15,136 678,107	90,975 59,546	-	89,987	35, 172	-	-	45,116	-
Magnesitetons	1,187,918	468,411	4,571	496,059	401,461	-	-	20.916 156.964	-
Micatops	-		137,431	SSI	-	-	-	-	
Mineral water imp. gals.	-	-	170,118 6.956	59,086	-	_	-	-	-
Natural gas M cu. ft.	_	040 210	2,444	208, 400 27, 277	-	-	-	1	-
Iron oxides tons	-	648,316 128,300		7,764,990 4,409,593	200 60	-	10,794,697 3,019,221	-	-
		-	6,518	-	-	_	-	108 920	-
Petroleum, crude brls.	-	10,544 29,940	-	137,850 379,221	-		216,050 902,504	-	
Phosphatetons	-	-	40 800	-	_	-	-		-
Pyritestons	_	-	14.100 42.117	371 4,912	5	-	-	3,374	-
Quartztons	8,333 29,018	-	24.550 107,779	192,733 339,304	-	-	-	6,466	_
Salttons	8.165 68,781	-	-	252.345	-		2,037	77.060	-
Sodium carbonatetons	08,781	-	-	1,388,672	-	-	22,696	595	-
Sodium sulphatetons	_		-		-	6,775	-	5.370	-
45163—21		- 1	~	- 1	- 1	13,550	-1	~	40

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Mineral Production in Canada by Provinces, 1926—Concluded

						1			
	Nova Scotia	New Bruns- wick	Quebec	Optario	Mant- toba	Saskat- chewan	Alberta	British Columbia	Yukon
	8	8	5	\$	S	\$	8	s	8
Non-Metallic-Con. Tale and soapstonetons			885	14,882					
8	-		38, 209	178,986	_	-		_	_
Volcanic dusttons	-	_	-	_		630		-	-
Silica brick M	1.358		-	1.307	-	-	-	-	-
5	64, 461	-		66,241					-
Total \$	28,212,847	1,427,871	10,835,961	7,719,308	461,531	833,985	24,832,636	10,915,215	800
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS Brick-Soft mud process-									
Face M	10	-	7.836	20,389	-	AM.	-	-	-
Clay Products—	200		196,829	359, 544		-			_
Common \$ M	826	_	25.833	35, 474	9,775	765		3,463	-
Stiff mud process	10, 670		365, 405	522,803	159,350	11,240	24,458	51,564	610
(wire cut)-	1 000		1 to 1 P.O.	#a a=0	0. 101	1 080	DP1	1 110	
l'ace M	1, 262 25, 139	_	17,156 442,738	76,078 1,537,450	3, 181 45, 778	1,252 35,365			-
Common M	3,845	2,372	68,131	12,110	105	2,728	4,271	484	-
Dry press—	50,002	34,258	1,247,875	206, 242	1,050	31,428		1	~
Face M	40	-	-	26,462 539,854	-	593 21,422			Gro.
Common M	-		-	3,055	-	159	13,236	3,000	-
Fancy or orna-	-	-	-	39,689	-	2,138	164,771	54,000	-
mental brick M		-	88	374	-	-	-	-	-
Sewer brick. M		Ī	4,010	20,047 6,397	-	-	-	149	
8	-	-		111,620	-	-	-	5,574	-
Paving brick M	_	-	-		_	-		122 5.015	_
Firebrick M	30 1.901	25 1,372	-	-	-	737 39,456	-	3,403 149,547	-
Fireclaytons	536	47		_	_	808	-	1,122	-
Fireclay blocks and	2, 123	1,819	-	-		5, 103	-	14,213	-
shapes \$	675				-	23, 361		30,028	-
Hollow blockstons	5, 141	I	33,627 281,342	76,642 769,652	2.511 29,132	4,400 44,000			-
Roofing tileNo.	-	-	-	17,018	-	-	-	-	44
Floor tiles	-	_	-	1,562	-	-	-	-	
(quarries) sq. ft.	-	-	-	195,011 43,854	-		-		-
Ceramic or glazed	-			40,009		-	_		
floor and wall tile \$ Drain tileNo.	53	-	224	943 12,788	275	20	132	766	_
8	1,877	_	10, 145	340,408	13,187	600			_
Sewer pipe, copings, flue linings, &ctons	11,532	_	6,311	48,176	_	-	7,140	2.837	
Pottery, glazed or	209, 465	-	153,954	835, 206	-	-	197,225	84,926	44
unglazed\$	-	38, 402	-	87,600	-	-	194, 133	-	-
Other products hentonitetons	-	-	-		-	40	-	30	-
\$		-	-	-				150	
Total \$	362,667	75,851	2,702,298	5,256,469	248,497	214, 113	801,933	592, 496	
OTHER STRUCTURAL									
MATERIALS Cementbrls.	-	_	3,727,377	3,398,860	612, 155	_	423,766		-
Limebush	453.797	477, 226	4,535,386 2,849,635	4,792,857 6,522,747	1,572,404 685,389	_	873,621 108,309	1,239,018 728,633	-
8	59.777	196, 477	766,116	2,051,446	251, 269	000 000	39.517	416.882	-
Sand and graveltons	230.307 52,952		5,233,696 1,490,074	6,483,163 2,292,678	989.581 178,059	863,901 145,296	1,754,965		-
Stonetons	92, 315	19, 108	2,305,734	3,622,042	101,571	-	3,759	253,061	-
3	150,792		3,728,228	3,157.288	357,884		13,890		
								19 19 719 1919	
Total \$	263,521	307,342	10,520,404	12,294,269	2,359,613	145, 296	1,339,458	5.046, 106	

Mineral Production of Canada, January 1 to June 30, 1926 and 1927

		28 to June 20	19 (1) 19 1	27 to June 30	Per c Increas or Decreas	e (+)
	Quantity	Victor	Quality	Value	Quantity	Value
35		8		8		\$
AntimonyLb.	1,596	281	_		100	_
Antimony ore Tons	76	380	-	-		-
Arsenic (As ₂ O ₁) Lb. Bismuth	2,287,801 6,440	66, 093 6, 440	3,667,004	131,514	+ 60.2	+ 98-9
Cobalt	384,034	H95,730		765,748	+ 2.2	+ 10.0
Copper	70, 843, 426 885, 813	9,757,285 18,311,378		9,075,634	+ 3.9	- 7.7
Iron, pig. from Canadian ore Tons	000,010	10,011,010	863,031	17,840,434	- 2.5	- 2.5
Iron ore sold for export	450 0u= 255	480 800	830	4,490		-
Lead Lb. Molybdenite	138, 397, 755 3, 530	11,453,798	152,275,563	8,803,676	+ 10.0	+
Nickel " l'alladium, Rhodium, Iridium, etc. Fine os.	34,519,896	7,702,754	34,781,199	8,008,823	+ 0.8	+ 4-0
Palladium, Rhodium, Iridium, etc. Fine os. Platinum. "	5,088 5,166	393,486 577,764	5,796 5,374	315,910	+ 13.9	- 19-7
Silver	11,108,310	7,320,509	11,723,218	424,546 6,612,833	+ 4-0 + 5.5	- 26·5 - 9·7
Zine Lb.	67, 159, 570	4,961,749	89, 282, 179	4,484,774	+ 3.2	- 9-6
Total		61,249,482	_	56, 468, 412	-	- 7.8
Non-Metallic						
Cool Fuels	6, 895, 813	25,312,598	0 404 021	00 405 410	1 20 0	
Coal Tons Natural gas. M. cu. (t. Peat Tons	10, 010, 079	4, 226, 859		29,695,818 4,614,438	+ 20.6	+ 17-3
Peat Tons			_	-	~	-
Petroleum, ernde Brl.	173,880	697,551	244,217	776.824	+ 40.5	+ 11-4
Total		31,237,008	-	35,087,080	-	+ 16.6
Other Non-Metallic Minerals						
Actinolite	132, 644	375 4,512,219		4 405 706		1 0 0
Barytes	152,044	1,312,219		4.685,706	- 6·7 - 20·5	+ 3.8
Bituminous sands	. 78	312	201	1,164	+273-1	+ 273-1
Feldspar. "Fluorspar. "	13, 135	114,016	15,926	139, 152	+ 21-2	+ 22.0
Graphite	1,371	101,291	899	57.591	- 14-4	- 43-1
Grinding pebbles. " Grindstones "	32	288	-	-	-	~
Gypsutn	250,369	964,638	331,893	1,175,850	+ 32.6	+ 21-9
Iron oxides	2,821	37,915	2.791	37,610	- 1-1	- 0.8
Magnesite	2,498	72,075 105,094	2,801	81,344 99,577	+ 12-1 + 5-0	+ 12·8 - 5·2
Mineral water	80,313	11,767	121.611	12.850	+ 51-4	+ 9.2
Natro-alunite Tons Phosphate.			-	900	-	-
Pyrites	7,615	30,645	21,418	893 78.931	+181-3	+ 157-6
Quartz	62,314	120,673	97,156	179,216	+ 55-9	+ 48-5
Salt " Silien brick M	124,921	708, 864	124, 186 466	785,484 23,250	- 0.6	+ 10-8
Sodium earbonate Tons	326	2,282	271	2,710	- 16.9	+ 18-8
Solium sulplate	2,221	11,107	2,471	4.943	+ 11-3	- 55-5
Tale and soapstone. 4 Valennie ash 4	7,888	115, 113	7,831 230	113,870	- 0.7	- 1.3
Total		6.909,298		7,482,322	-	+ 8-3
Total non-metallics		37,146,306		42,569,402		+ 14-6

^{*} See Text.

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Mineral Production of Canada (exclusive of Clay Products and Other Structural Materials) by Provinces, January 1 to June 30, 1927

	Nova	New	Quebec	Ontario	Manitoba	Saskat-	Alberta	British	Yukon
METALLIC	Scotia	Brunswick				chewan		Columbia	
AntimonyLb.		-	4 -			-	_	_	_
ArsenicLb.	-		-	3,275,214 127,185	-	-	_	391,790 4,329	_
Bismuth Lb.		-	-	-	-	-	_	-	-
CobaltLb.		-		392, \$37	-	_	-	-	
CopperLb.		_		765,748 21,808,467	-	-	-	49.685,321	-
GoldFine oz.	1.357	-	2,475	2,465,563 765,710		-	-	6,338,853 86,993	6,496
Iron ore sold for	28,052			15,828,630	-		_	1,798,305	134,284
exportTons		gus gus	830 4,490	-	_	-	-	lan are oro	
LeadLb.	_		2,932,227 168,515	3,677,719 263,758	-	g=	-	143,451,656 8,244,339	2,210,961 127,064
Manganese Tops	Ξ	-	-	-	-	-	_	_	_
Molybdenite Lb.				_	_	-	_		-
Nickel Lb.		-	-	34,781,199 8,008,823		-	_	-	_
Palladium, Rhor'i- um, etc Fine oz.	_		-	5,796		_		-	
l'latinumFine oz.	- m	-	911	315,840 5,374		-		- ~	
SilverFine oz.	73	-	285, 461	424,546 4,948,888	_	D		5,368,074	1,120,722
Zine	41	100	161,023 7,020,179		-	-	_	3,028,023 62,262,000	632,177
\$	40 844	-	454,430	40 001 200	~	ar-		4,030,344	
Total \$ Non-Metallic	28,093		1,110,539	30,991,762				23, 444, 193	893,525
ActinoliteTons	_	-	***	~	-	~	an m-	_	_
AshestosTone	-	-	123,730 4,685,706	_	-			-	-
BarytesTons	35 771		_	-	-	_	-	-	_
Bituminous sands. Tons	-	-	-		_	_	291 1,164	-	-
CoalTone	3,572,122	110,510 486,600	_		_	195,398 349,869	3,170,551 9,982,064		-
FeldsparTons	-	-	6,855 54,108	9.07I 85,044	_	-	=		-
FluorsparTone	_	_	-	-		94	_	-	
Garnets Tons	-	-	-	-	-	_		_	-
Graphite Tone	-	-	53 2,097	846 55,494		-	_	400	
Grinding pebbles Tons	**		4,1101	-	-		-	-	-
GrindstonesTons	_	-	-	-	-	-			-
GypsumTons	227,060 428,901		-	42.298 142,820		-	-	10.236 86.940	
Magnesite Tons	320,501	297,201	2,801	172,020	612,020	-	-	- 00,040	-
Mica Lb.	= = =	-	81,344 1,454,192 52,385	955,860			-	-	-
Mineral waters. Imp gal.	-	-	1,876	47, 192 119, 735	-	-	-	_	-
Natural gas M cu. ft.	-	407,860	504	12,346 3,889,150 9,597,046	100	-	7,050,538 2,007.022	-	-
Iron, Oxides.,Tons	-	79,438	2.788	2,527,948	30		2,007.032	3 90	-
Petroleum, crude. Bris.		15,598	37,520	69.177	-	_	159,442	-	-
Phosphate Tons		32,361	31	145.545	-	_	598,918	38	-
PyritesTons	_	_	399 8,533	199		_	-	12,686 50,744	**
QuartzTons	1,013		25,599 10,567	85.237	-	_	_	50,744	_
SaltTons	4,567 6,189	-	35.973	117,877	-	_	100		=
Silica brickTons	39,894	-	_	744,290 374		_	1,300	-	_
Sodium carbonate. Tons	3,676	-	-	19,574	1	_	_	271	_
Sodium sulphateTons	-	-	-	-	-	2,471		2.710	_
Tale and soapstone. Tons	-		505	7,224	_	4,943	_	102	_
TripoliteTons			23,080	88,326	-	-	-	2,264	_
Volcanic dust Tons	_	_	Ī	_	-	230	Date	_	
Total \$	13,813,420	842,656	4 994 785	4,008,826	272,953	1.610	12.500 469	5,685,942	
2 IPE 63 9	11040103400	C13/54 (H/M)	34000, 580	x, 990, 040	1 10 4 10 4 10 10 10	0004354	100000000000000000000000000000000000000		

Method of Computing Values

For statistical and comparative purposes it has always been customary to determine the value of the metals on the basis of the quantities recovered from Canadian ores smelted during the year either in Canada or abroad; in making up values the general practice is to use the average price of the refined metal in a recognized market. As some changes have been made in the methods in use, the following notes have been prepared so that the reader may know how the figures of quantity and value have been computed.

Antimony.—Recoverable metal in shipments made, valued at the average New York price for the fine metal.

Arsenic.—(a) The recoverable arsenic in concentrates exported at an arbitrary value; (b) White arsenic shipped from Canadian smelters at its sales value.

Bismuth.—The recoverable bismuth metal in the silver-lead-bismuth bullion shipped to foreign smelters for refining, at an arbitrary value.

Cobalt.—Cobalt content of the various cobalt products sold by south Ontario smelters added to the cobalt content of ores and residues exported for treatment in foreign smelters; the value given is the net amount received by the shippers.

Copper.—1. Dominion Bureau of Statistics practice up to the end of 1925 was to include as the production of copper, data obtained from the following sources:

- (a) Copper in matte made by the International Nickel Company and the Mond Nickel Company at their smelters in the Sudbury area;
- (b) Copper in cobalt-nickel and gold ores exported, deductions being made as follows:
 - (1) Copper in concentrates from gold ores less 26 pounds per ton of concentrates;
 - (2) Copper paid for in concentrates from silver-cobalt ores;
 - (3) Copper in concentrates exported (from Quebec) less 20 pounds per ton of concentrates;
 - (4) Blister copper produced at the Trail and Granby smelters;
 - (5) Copper in Britannia mine shipments of concentrates less 10 pounds per ton of concentrates;
 - (6) Copper in all other copper-bearing ores exported less 20 pounds per ton of concentrates.
- 2. The sum of production as thus determined was valued at the monthly average New York market price for electrolytic copper.
- 3. Consensus of opinion seems to be that the foregoing method results in a higher valuation being put on copper production from Ontario oces than is actually obtained by Canadian producers, and it is held that practice in Ontario would be improved by measuring the copper production at its most advanced state within the province. Thus, whereas formerly calculations were based on the copper content of matte made at the smelters in the Sudbury area, now it is proposed to compute in the item "Production," the copper produced at Port Colborne and the copper in matte and ores exported.
 - (a) There has been no change in method either in respect to quantities or values except in the province of Ontario; while it may be suggested that the production of copper from Trail ought to be measured at the refinery rather than at the smelter it is not considered desirable to make this change at the present time owing to the fact that the copper refinery in question operates only intermittently whereas the copper smelter has a more continuous record. There may be some disposition to discuss the deductions that ought to be allowed in connection with shipments of copper ores for export, but it is thought this possible change in practice would not be of great moment and it is therefore passed over at the present time;
 - (b) In computing Ontario's production of copper the procedure will be as follows:—
 - Copper content of converter copper made at Port Colborne, the value for this
 output being computed pro rata according to the income from sales of copper
 during the year (as reported by the International Nickel Company of Canada);
 - (2) Copper in matte exported from the smelters of the Sudbury area valued at an arbitrary figure agreed upon between the Bureau of Statistics and the Ontario Department of Mines;

(3) Copper in concentrates from gold ores less 26 pounds per ton of concentrates valued at the monthly average New York price for electrolytic copper;

(4) Copper paid for in concentrates from silver-cobalt ores exported at its sales value as reported by the shippers;

(5) The foregoing changes have been made in this report.

Gold.—Gold in bullion produced and the recoverable gold in all other Canadian mine products valued at the standard rate of \$20.671834 per fine ounce.

Iron Ore. - Export tonnages and sales values.

Lead.—1. Dominion Bureau of Statistics practice up to the end of 1925 was to evaluate the recoverable lead from all sources at the average price prevailing on the Montreal market during the year.

- 2. Examination of the returns made to the Bureau shows that sales of lead in ores from the province of Quebec and to the extent of about 80 per cent of the lead sold from Trail are made on the basis of London quotations; approximately 20 per cent of the lead sold from Trail is marketed in Canada.
 - 3. Lead from Ontario ores finds its market in Canada.
- 4. Lead ores exported from British Columbia and from the Yukon to points in the United States are subject to a duty of 1½ cents per pound of lead content (lead in base bullion takes a rate of 2½ cents per pound.) The difference between the London and New York quotations is approximately equivalent to the duty charged on each pound of lead imported into the United States.

In view of the foregoing facts the following procedure for the evaluation of lead from Canadian ores has been adopted in this report:—

(a) Ontario-Galetta sales, quantity and value.

(h) Recoverable lead in ores exported from Quebec, Yukon and British Columbia as well as lead in base bullion made at Trail valued at the average London quotations during the year as given in the "Engineering and Mining Journal" the English quotations being converted to Canadian funds at par (\$4.86666).

Molybdenite.—Shipments in terms of MoS2 at their sales value.

Nickel.—Prior to 1925 it was customary in Dominion reports to compute the nickel production of Canada as the sum of the quantity of nickel contained in matte made at the Sudbury smelters and the nickel contained in smelter products from silver-cobalt ores; the value was computed at the average New York market price for virgin nickel. But as all Canada's nickel is derived from Ontario ores, and as the method used by the Ontario Department of Mines differed from Dominion practice, a conference was arranged during 1925, with a view to harmonizing the statistics on nickel. As a result of this conference it was agreed that both offices should compute the quantity and value of nickel production as follows:—

(a) Nickel in matte exported from Canada valued at an arbitrary figure agreed upon between the two offices—(representative of the value of nickel in matte);

(b) Refined and electrolytic nickel produced at Canadian refineries valued at the average price obtained for such products sold during the year;

(c) Nickel in nickel oxide or salts sold from Canadian smelters and refineries at its total selling value in the form in which it was sold;

(d) Nickel contained in speiss residues exported valued at the same price as a lowed for nickel in matte.

This method has been followed in making up the nickel figures in this report.

Precious Metals, including Platinum.—Recoverable metals in smelter products at their sales value to the producer.

Silver.—Silver bullion produced and the recoverable silver in other smelter products, and the recoverable silver in Canadian ores exported, at the average New York price for the refined metal

Zinc.—Refined zinc produced at Trail and the recoverable zinc in concentrates exported valued at the average monthly price quoted in London, exchange conversion being made at par.

Coal.—Output tonnage evaluated pro rata according to income from sales.

Other Non-Metallic Minerals, Clay Products and Structural Materials.—Shipments during the year at their respective saies values.

Exchange Table—Showing the amount paid in Canadian dollars for one United State dollar by months, 1922-1927

Month	1922	1923	1924	1925	1926	1927
	8	\$	\$	8	8	\$
January Pebruary March April May June July August September October November December	1.0553 1.0351 1.0297 1.0297 1.0208 1.0125 1.0138 1.0091 1.0023 0.9098 1.0011 0.9998	1.0067 1.0119 1.0208 1.0203 1.0222 1.0231 1.0263 1.0244 1.0233 1.0156 1.0181	1 · 0275 1 · 0322 1 · 0294 1 · 0184 1 · 0166 1 · 0141 1 · 0004 1 · 0011 1 · 0078 1 · 0010 1 · 0000 1 · 0015	1 · 0026 1 · 0014 1 · 0013 1 · 0005 1 · 0000 1 · 0000 0 · 9995 1 · 0001 0 · 9992 0 · 9992 1 · 0003	1 · 0020 1 · 0034 1 · 0.037 0 · 9906 0 · 9992 0 · 9987 0 · 9985 0 · 9986 0 · 9993 0 · 9998 1 · 0006	1 · 0016 1 · 0006 1 · 0009 0 · 9890 0 · 9993 1 · 0006
Average	1-0145	1-0197	1-0131	1.0003	1.0001	1 - 9963

Metal Prices, 1922-1927

Commodity	Market	Unit	1922	1923	1924	1925	1928	to June 30 1927
			8	\$	8	8	8	8
Antimony (ordinaries)		44	0.08471	0.07897	0.10836	0-17494	0.15988	0-13468
lobalt	66	46	0.08500 3.25	0-12050 2-85	2.75	0.0466 2.50	0 · 0350 2 · 50	2.50
obalt oxide		46	2·00 0·13382	2·10 0·14421	2·10 0·13024	2-20 0-14042	2·10 0·13795	2-(0)
ева	New York	44	0.05734	0.07267	0.08097	0-09820	0-08417	0.07121
ead	London*.	46	0.06219	0.07179	0.08104	0-0912	0-08154	0.07220
Vickelt	New York	86	0.35	0.29353	0.28	0-34	-38	0.39
ilver	11 0	ounce	97-618	116 · 537 0 · 64873	0-66781	0-69065	113-269 0-62107	97 - 272 0 - 56408
in	46	pound	0.31831	0.41799	0-49674	0.56790	0 63815	0 - 65563
line	London*	и	0.05716	0.06607	0.06344	(1-()7622	0.07337	0-05442

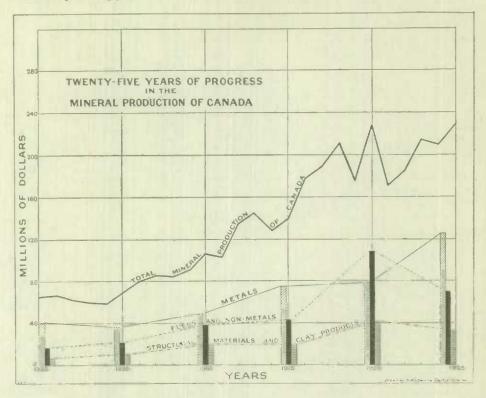
Quotations used in this report in computing value of mineral production.
 Nickel Shot in 1926-1927.

Finally Revised Statistics on the Mineral Production of Canada, by Provinces, 1926

Metal mining in Canada showed wonderful prosperity in 1926. In Ontario, gold, silver, nickel and copper were produced in abundance and in addition to these leading minerals there was a production of almost every other economic mineral with the exception of coal. British Columbia's output of lead, zinc, copper, gold and silver added greatly to Canada's mineral wealth. Quebec's asbestos fields continue to supply by far the greatest part of the world's tonnage of this useful commodity; lead, zinc, gold and silver, copper, molybdenite, and a small quantity of iron ore, were also reported. Developments in the Rouyn field in Quebec were watched with interest by the mining world during the year. Much progress was made. Alberta, Nova Scotia and British Columbia produced large tonnages of coal in addition to other minerals. Manitoba's mines yielded gold and silver, but more important perhaps than the actual yield of metals was the fact that Manitoba's mineral area has been made the subject of more intense study during recent years than formerly, so that the prospects of production from this source are very considerably improved. Much money has been spent in the investigation of Manitoba's mineral resources. New Brunswick's coal and building materials added to the total for Canada. Interest in the oil-well developments in Alberta was very keen throughout the year; it is probable that very encouraging developments will occur in the mineral industry in this province in the early future.

45163-3

Finally revised statistics showing the production of minerals by provinces, during the calendar year 1926 are shown in the next following tables, and comparative data are given in each case for the two preceding years.



Mineral Production of Canada by Provinces, 1924, 1925 and 1926

	193	24	193	25	1926	
Province	Value of production	Per cent of total	Value of production	Per cent of total	Value of production	Per cent of total
Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia. Yukon	19,136,504 86,398,656 1,534,249 1,128,100 22,344,940	11·37 0·94 9·13 41·23 0·73 0·54 10·66 24·95 0·45	\$ 17,625,612 1,743,858 24,284,527 87,980,436 2,276,759 1,076,392 25,318,866 64,485,242 1,791,641	7.78 0.77 10.71 38.83 1.01 0.48 11.17 28.46 0.79	\$ 28,873,792 1,811,104 25,956,193 84,702,296 3,073,528 1,193,394 26,977,027 65,622,976 2,226,813	12·00 0 76 10·80 35·23 1·29 0·50 11·21 27·29 0·92
Total,	209,583,406	100-00	226,583,333	100-00	240, 437, 123	100 - 00

Mineral Production of Nova Scotia, 1924, 1925 and 1926

Product	[5	024	19	25	[9	26
3 1/14/11/4	Quantity	Value	Quantity	Value	Quantity	Value
METALLIC— Arsenic . 1b. Gold . fine oz. Manganese . tons Silver . fine oz. Non-METALLIC— Barytes . tons Coal . " Grindstones . " Gypsum . " Quartz . " Salt . " Tripolite . " Silica brick . M	381,092 1,047 44 5,557,441 338 441,752 4,551 33	\$ 15, 244 21, 643 29 3, 308 22, 280, 554 12, 525 915, 845 37, 469 838	1, 626 86 86 3, 842, 978 439 551, 239 1, 352 6, 598	\$	1,678 112 6,747,477 311 678,107 8,333 8,105 1,358	34,687 70 2,307 26,845,226 15,136 1,187,918 29,018 68,781 64,461
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS— Clay products. Lime bush. Stone tons Sand and gravel a	‡ 78 67,535	359, 288 936 111, 824 † 60, 849	8,243 102,125 286,614	*425,710 3,464 134,686 55,362	453,797 92,315 230,307	362,667 59,777 150,792 52,952
Total		23,820,352	~	17,625,612		28,873,792

Mineral Production of New Brunswick, 1924, 1925 and 1926

Product	192	4	1925		1926	
METALLIC— Mungane: e oretons	Quantity 534	Value \$ 4,088	Quantity	Value 8	Quantity	Value \$
Non-Metallic— Con! tons Grindstones " Gypsuto " Natural gas. M cu. ft. Petroleum brl.	217.131 2,113 86,738 599,972 5,561	932,185 90,209 476,804 113,577 21,313	208,012 1,642 71,745 639,235 5,376	815, 367 79, 661, 408, 917 122, 394 18, 755	173,111 1,684 59,546 648,318 10,514	710,24 90,873 468,41 128,300 20,946
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS— Clay products Lime bush, Sand and gravel tons Stone— "	208,180 141,897 10,229	74,994 108,890 23,990 114,111	202,106 70,156 25,391	69, 473 102, 216 12, 331 124, 743	477,226 70,931 19,108	75, 85 106, 47 11, 36 99, 54
Total	-	1,969,260		1,743,858	-	1,811,10

^{*} Includes clay products from P.E.I. valued at \$3,020, t Includes railway ballast from P.E.I., valued at \$11,490 in 1924, \$5.475 in 1925, \$ Tools.

Mineral Production* of Quebec, 1924, 1925 and 1926

931	19	24	19	25	19:	26
Product	Quantity	Value	Quantity	Value	Quantity	Value
Metallic— Chromite. tons Copper. Ib. Gold. fine oz. Iron ore, solil for export. tons Lend. Ib. Molybdenite. " Silver. fine oz. Zine Ib. Nos. Metallic— Ashestos. tons Feldspur. " Graphite " Mices. " Mineral water Imp. gal. Iron oxides. tons Flosphiate. " Pyrites. " Quartz. " Tale mul soapstone. " Clay Products and Other Structural Matemals— Cement. brl. Clay products. Line— Quicklime. bush. Hydrated lime. tons Sand and grave! " College. " Uses. " Copper. " Copper	1,893,008 883 1,408 1,058,983 18,736 83,814 2,909,008 225,572 16,147 46 3,873 1,677 7,683 7,146 4,032 17,893 449 2,758,316	\$ 246,546 18,546 18,253 3,771 85,820 0,370 55,972 184,547 6,618,930 142,118 3,275 101,350 185,020 2,288 88,540 10,618 87,267 20,273 4,796,959 2,435,695 640,990 58,947 414,428	2,519,141 1,602 3,978 2,051,100 22,350 214,913 9,936,000 290,387 11,287 359 5,576 2,415 7,122 6,985 ,459 ,764 3,365,802 2,272,751 9,432 2,203,196	\$ 352,474 33,116, 11,934 187,060 11,176 148,451 757,322 8,987,459 30,990 122,235 178,800 2,961 89,173 89,964 30,130 5,689,991 2,426,887 601,081 72,245 533,850	2,674,058 3,680 200 3,729,636 20,943 375,986 12,904,176 279,389 13,168 326 4,571 1,604 4,571 1,604 4,570 14,100 24,550 885 3,727,377	\$ 368,886 76,072 000 251,788 10,472 233,513 956,199 10,095,488 111,136 29,516 147,431 170,118 2,444 100,923 8,900 42,117 107,779 38,209 4,535,386 2,702,298 667,480 98,636 1,490,576
Stone	1,592,089	2,925,520	2.242.916	3,855,455	2,305.734	3,728,228
Total	-	19,136,504	1 -	24,284,527	- 1	25,956,193

[.] There is also in this province an important production of aluminum from imported ores.

Mineral Production of Ontario, 1924, 1925 and 1926

5,225 5,225 2,863 3,193 4,728 6,350 9,181 8,923 2,567 70 3,28 8,527 70 1,28 8,121 2,414	Value \$ 313.281 27.913 1,682.395 4,833.622 25,668.795 409.687 19.470.178 11.000.858 811.993 7.527,933 1.225 91.900 216.422 216.422 467.097 172.252	Quantity 1,751 2,150,441 19,667 1,146,492 39,718,77 1,461,639 7,209,534 73,857,114 8,692 8,288 10,529,121 179,545 40 2 17,394 12,210 105 82,020	Value \$ 206 113,324 18,566 2,328,517 5,577,311 30,202,357 657,510 15,946,672 1,027,477 648,1094 7,271,094 13,085 500 901 141,050 200 127,863 945	Quantity 1,596 4,055,477 6,440 664,778 41,312,807 1,497,215 7,398,705 65,714,294 9,471 9,274,905 80 14 22,783 2,401 64	\$ 281 135,549 6,440 1,130,014 4,828,964 30,950,180 580,730 14,374,163 610,178 119,349 5,760,402 1,000 3,935 190,102
2,863 8,704 3,193 1,728 5,368 6,350 9,150 1,28 8,657 70 360 1,288 8,121 2,414	313, 281 27, 913 1, 682, 395 4, 833, 622 25, 668, 795 409, 687 19, 470, 178 1, 000, 858 811, 993 7, 527, 933 1, 225 91, 900 216, 422 1, 343 7, 200 72, 842 467, 097	2, 159, 441 19, 667 1, 116, 492 39, 718, 777 1, 461, 039 7, 209, 534 73, 857, 114 8, 692 40 40 2 177, 394 12 2, 210 105 82, 920	296 113, 324 18, 566 2, 328, 517 5, 577, 311 30, 202, 357 657, 510 15, 940, 672 1, 027, 477 648, 989 7, 271, 98 13, 685 500 901 141, 050 200 127, 863 945	4,055,477 6,440 661,778 41,312,807 7,1497,215 65,714,294 9,471 9,274,905 80 14 22,783 2,401 64	135,549 6,440 1,136,014 4,828,964 30,950,180 580,730 14,374,163 610,178 919,349 5,760,402 1,000 3,935 199,402 165,344 576
2,863 8,704 3,193 1,728 5,368 6,350 9,150 1,28 8,657 70 360 1,288 8,121 2,414	27, 913 1, 682, 395 4, 833, 622 25, 668, 795 409, 687 19, 471, 178 1, 000, 858 811, 993 7, 527, 933 1, 225 91, 900 216, 422 1, 343 7, 290 72, 842 467, 097	2, 159, 441 19, 667 1, 116, 492 39, 718, 777 1, 461, 039 7, 209, 534 73, 857, 114 8, 692 40 40 2 177, 394 12 2, 210 105 82, 920	113, 324 18, 566 2, 328, 517 5, 577, 311 30, 202, 357 1, 027, 477 648, 969 7, 271, 944 13, 985 500 901 141, 050 200 127, 863 945	4,055,477 6,440 661,778 41,312,807 7,1497,215 65,714,294 9,471 9,274,905 80 14 22,783 2,401 64	135,549 6,440 1,136,014 4,828,964 30,950,180 580,730 14,374,163 610,178 919,349 5,760,402 1,000 3,935 199,402 165,344 576
2,863 8,704 3,193 1,728 5,368 6,350 9,150 1,28 8,657 70 360 1,288 8,121 2,414	27, 913 1, 682, 395 4, 833, 622 25, 668, 795 409, 687 19, 471, 178 1, 000, 858 811, 993 7, 527, 933 1, 225 91, 900 216, 422 1, 343 7, 290 72, 842 467, 097	19,667 1,116,492 39,718,777 1,461,039 7,209,534 73,857,114 8,692 8,288 10,529,121 179,545 40 2 17,394 12 2,210 105 82,020	(8,566) 2,328,517, 5,577,311 30,202,357, 657,510 15,946,672 1,027,477 648,998 7,271,994 13,685 500 901 141,050 2000 127,863 945	6, 449 661, 778 41,312,807 1,497,215 7,398,795 65,714,294 9,471 9,274,905 80 14 22,783 2,401 64	6,440 1,130,014 4,828,964 30,950,180 590,730 14,374,163 610,178 119,349 5,760,402 1,000 3,935 190,102 165,344 576
8,704 3,193 4,728 5,368 6,350 9,181 8,923 2,567 90 172 28,657 70 360 1,288 68,121 2,414	1, 682, 395 4, 833, 622 25, 688, 795 409, 687 19, 470, 178 1, 000, 858 811, 993 7, 527, 933 1, 225 91, 900 216, 422 1, 343 7, 200 72, 842 467, 097	1,116,492 39,718,777 1,461,039 7,209,534 73,857,114 8,692 8,288 10,529,121 179,545 40 2 17,394 12,210 105 82,020	2, 328, 517, 51577, 311 30, 202, 357, 657, 510 15, 940, 672 1, 027, 477, 648, 3089 7, 271, 944 13, 085 500 901 144, 050 200 127, 863 945	664,778 41,312,867 1,497,215 1,497,215 7,398,795 65,714,294 10,024 9,471 9,274,965 80 14 22,783 2,401 64	1,136,014 4,828,964 4,828,964 30,950,180 590,730 14,374,163 614,178 119,349 5,760,402 1,000 3,935 199,102 165,344 576
3,193 1,728 5,368 6,350 9,181 8,923 2,567 90 172 28,657 70 360 1,288 68,121 2,414	4, 833, 622 25, 688, 795 409, 687 19, 470, 178 1, 000, 858 8, 010, 958 7, 527, 933 7, 527, 933 1, 225 91, 900 216, 422 1, 343 7, 200 72, 842 467, 097	39,718,777 1,461,639 7,209,534 73,857,114 8,692 8,298 10,529,121 179,545 40 2 17,394 12 2,210 105 82,920	5,577,311 30,202,357 657,510 15,946,672 1,027,477 648,308 7,271,944 13,685 500 901 141,050 200 127,863 945	41.312.867 1.497.215 7.398.795 65.714.294 9.471 9.274.905 80 14 22.783 24.401 64	4,828,964 30,950,180 580,730 14,374,163 614,178 919,349 5,760,402 1,000 3,935 199,402 165,344 576
4,728 5,368 6,350 9,181 8,923 2,567 90 172 28,657 70 360 1,288 58,121 2,414	25, 668, 795 409, 687 19, 470, 178 1, 090, 858 811, 993 7, 527, 933 1, 225 91, 900 216, 422 1, 343 7, 290 72, 842 467, 097	1,461,039 7,209,534 73,857,114 8,692 8,288 10,529,121 179,545 40 2 17,394 12,210 105 82,020	30, 202, 357 657, 510 15, 940, 672 1, 027, 477 648, 099 7, 271, 94 13, 685 500 901 141, 050 200 127, 863 945	1,497,215 7,398,795 65,714,294 10,024 9,471 9,274,965 80 14 22,783 	30, 950, 180 580, 730 14, 374, 163 614, 178 919, 349 5, 760, 402 1,000 3, 935 190, 102
5,368 6,350 9,181 8,923 2,567 90 172 28,657 70 360 1,288 58,121 2,414	409,687 19,470,178 1,000,858 811,993 7,527,933 1,225 91,900 216,422 1,343 7,200 72,842 467,097	7, 209, 534 73, 857, 114 8, 692 8, 288 10, 529, 121 179, 545 40 2 17, 394 12 2, 210 105 82, 920	657, 510 15, 940, 672 1, 027, 477 648, 989 7, 271, 944 13, 085 500 901 141, 050 200 127, 863 945	7.398,795 65,714,294 10,024 9,471 9,274,965 - 80 14 22,783 - 2,401 64	14.374.163 644,178 919.349 5.760.402 1.000 3.935 190.102 165.344 576
90 172 28,657 70 1,288 68,121 2,414	19,470,178 1,000,858 811,993 7,527,933 1,225 91,900 216,422 1,343 7,200 72,842 467,097	73, 857, 114 8, 692 8, 288 10, 529, 121 179, 545 40 2 17, 394 12 2, 210 105 82, 020	15, 946, 672 1, 027, 477 648, 969 7, 271, 944 13, 685 500 901 141, 050 200 127, 863 945	65,714,294 ,10,024 ,9,471 9,274,965 80 14 22,783 - 2,401 64	14.374.163 644,178 919.349 5.760.402 1.000 3.935 190.102 165.344 576
9, 181 8, 923 2, 567 90 172 28, 657 70 360 1, 288 68, 121 2, 414	1,000,858 811,993 7,527,933 1,225 91,900 216,422 1,343 7,200 72,842 467,097	8.692 8,288 10,529,121 179,545 40 2 17,394 12 2,210 105 82,020	1,027,477 648,969 7,271,944 13,685 500 901 141,059 200 127,863 945	80 14 22.783 2.401 64	646,178 919,349 5,760,402 1,000 3,935 190,102
8,923 2,567 90 172 28,657 70 360 1,288 88,121 2,414	811, 993 7, 527, 933 1, 225 91, 900 216, 422 1, 343 7, 200 72, 842 467, 097	8,288 10,529,121 179,545 40 2 17,394 12 2,210 105 82,020	648, 969 7, 271, 944 13, 685 500 901 141, 050 200 127, 863 945	9,471 9,274,965 80 14 22,783 2,401 64	1,000 3,935 199,102 165,344
90 172 28,657 70 300 1,288 58,121 2,414	7,527,933 1,225 91,900 216,422 1,343 7,200 72,842 467,097	10,529,121 179,545 40 2 17,394 12 2,210 105 82,020	7,271,944 13,685 500 901 141,050 200 127,863 945	9,274,965 	1,000 3,935 199,102 165,344 576
90 172 28,657 70 300 1,288 88,121 2,414	1,225 91,900 216,422 1,343 7,200 72,842 467,097	179,545 40 2 17,394 12 2,210 105 82,020	13, 685 500 901 141,050 200 127, 863 945	80 14 22,783 2,401 64	1,000 3,935 199,102 165,344 576
172 28,657 70 360 1,288 68,121 2,414	91, 900 216, 422 1, 343 7, 200 72, 842 467, 097	40 2 - 17,394 12 - 2,210 105 82,020	500 901 141,059, 200 127,863 945	22,783 22,783 2,401 64	3,935 199,102 - 165,344 576
172 28,657 70 360 1,288 68,121 2,414	91, 900 216, 422 1, 343 7, 200 72, 842 467, 097	17,394 12 2,210 105 82,020	901 141,059 200 127,863 945	22,783 22,783 2,401 64	3,935 199,102 - 165,344 576
28,657 70 360 1,288 88,121 2,414	216, 422 1, 343 7, 200 72, 842 467, 097	17,394 12 2,210 105 82,020	141,050 200 127,863 945	22,783 2,401 64	199, 102 165, 344 576
70 360 1,288 8,121 2,414	1,343 7,200 72,842 467,097	2,210 105 82,020	141,059 200 127,863 945	2.401	165,344 576
70 360 1,288 8,121 2,414	1,343 7,200 72,842 467,097	2,210 105 82,020	200 127, 863 945	2.401	165,344 576
360 1,288 88,121 2,414	7,200 72,842 467,097	2,210 105 82,020	127, 863 945	64	576
1,288 88,121 2,414	72,842 467,097	105 82,020	945	64	576
88,121 2,414	467,097	105 82,020	945	64	576
2.414			AGE DEE	00 007	107 070
	170 080		491,833	89,987	496,059
		1,605	82,663	883	59,086
1.670	13, 133	183,012	25,452	208,400	27.277
0.078	3,798,381	7,143,962	3,958,006	7,764,998	4,409,593
4.368	441.952	1,370	8,394 386,555	137,850	379,221
PE, 00%	211,305	140,102	030,000	107.000	010.221
1.429	44,542	685	8,799	371	4.912
1,645	192,855	188,500	324,526	192,733	339,304
13,428	1,337,311	226, 315	1,352,504	252,345	1.388,672
10,718	130,577	13,678	174,116	14,882	178,986
140	-	_	-	1,307	66,241
34.490	5.66R.67E	3.462.358	5, 253, 911	3.398.860	4,792,857
	5.089.299			**	5,356,469
				5,402.261	1,593,468
					457,978
1 13 17 12/3					2,292,678 3,157,288
					0.101,288
	2,789,308	3,022,712	6,011,000	0,000,000	
	91,050 35,989 74,284	91,050 1,401,545 35,989 438,607 74,284 2,041,959	- 5,089,299 - 91,050 1,401,545 5,115,974 438,607 41,610 74,284 2,041,059 5,201,604	- 5,089,299 - 5,195,084 91,050 1,401,545 5,115,974 1,566,540 35,989 438,607 41,610 477,585 74,284 2,041,959 5,201,604 1,779,129	- 5,089,299 - 5,195,084 - 91,050 1,401,545 5,115,974 1,566,540 5,402,261 35,989 438,667 41,610 477,585 39,217

⁽a) The total production of blast-furnace pig-iron in Ontario in 1924 was 415.971 tons valued at \$9.484,139, in 1925 it was 368,604 tons valued at \$7.873,816, and in 1926 it was 507,079 tons valued at \$11,106,738.

Mineral Production of Manitoba, 1924, 1925 and 1926

Product	19:	24	192	5	19	28
1 rouget	Quantity	Value	Quantity	Value	Quantity	Value
METALLIC— Gold fine oz. Silver	1,180 140	\$ 24,393 93	4,424 477	\$ 91,452 329	188 18	3,886 11
Non-Metallic— Gypsun tons Natural gas M cu. ft.	29,375 200	348,212 60	35,088 200	417,868 60	35,172 200	461,461 60
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS— Cement. Clay products. Lime bush. Sand and gravel tons Stone tons	394,229 54,065	746,750 117,450 121,518 81,807 93,876	407,395 450,315 727,152 52,770	1,037,929 173,794 170,230 196,601 188,496	612,155 685,389 989,581 101,571	1,572,401 248,497 251,269 178,059 357,884
Total	840	1,534,249	~	2,276,759	de la constant de la	3,673,528

Mineral Production of Saskatchewan, 1924, 1925 and 1926

Product	192	1924		5	1926	
Froduct	Quantity	Value	Quantity	Value	Quantity	Value
Non-Metallig-		\$		8		\$
Coal tons Sorium sulphate " Volcanic ash "	479,118 1,083 245	886,668 6,004 1,103	471,965 3,876 160	870, 875 E9, 380 1, 380	439,803 6,775 90	819,805 13,550 630
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS— Clay products Sand and gravel tons	702,713	137, 280 97, 045	579,901	95,952 88,805	863,901	214, 113 145, 296
Total	-	1,128,100	_	1,076,392		1,193,394

Mineral Production of Alberta, 1924, 1925 and 1926

Product	19	24	193	25	19	26
1. roduct	Quantity	Value	Quantity	Value	Quantity	Value
Non-Metallic— Bituminous fands	5, 189, 729 7, 131, 086 844	2,127 18,884,318 1,798,618 4,135	5,869,031 9,119,500 183,491 833	\$ 20,021,484 2,752,545; 845,394 8,304	216,050	\$ 2,11; 20,886,10; 3,019,22; 902,50; 22,690
MATERIALS— Cement Clay products Lime bush. Sand and gravel tons Stone tons Total	90,214	945,700 540,477 36,279 115,969 19,317 22,344,940	395,857 98,938 534,892 3,979	913,529 618,860 39,852 107,436 6,868	423,766 108,309 1,754,965 3,759	873,62 804,93 39,51 412,43 13,89

Mineral Production of British Columbia, 1924, 1925 and 1926

	19	24	19	25	193	26
Product	Quantity	Value	Quantity	Value	Quantity	Value
METALLIC— Arsenic lb. Copper " Gold fine oz. Iron ore sold for export tons Iron, pig, from Canadian ore " Lead lb. Platinum fine oz. Silver " Zine lb. Non-METALLIC— Coxl. tons Fluors par " Grindstones, pulpstones " Gypsum " Magnosium sulphate " Oxides (iron) " Description "	495, 250 65, 451, 246 245, 719 14 168, 467, 628 8, 153, 003 96, 006, 069 2, 193, 667 240 30 - 120 8, 091	\$ 19,768 8,524,370 5,079,462 13,652,017 6,090,244 10,601,998 19,000 150 - 2,620 40,456	1,277,696 60,221,600 219,227 242,454,502 6 8,579,453 99,152,006 2,742,252 3,874 4,31 240 20 133 2,670	\$ 16,978 9,720,097 4,531,824 22,111,85, 5,925,40; 7,557,431 11,720,37; 19,034 27,78 1,000 2,749 13,359	1,019,200 89,108,017 225,868 8- 266,812,461 50 10,425,816 137,033,929 2,613,719 	\$ 11,262 12,292,450 4,669,065 18,012,500 5,258 6,599,376 10,154,214 10,612,915 45,116 156,954
Pyrites	21.358 516 165 517,577 4,157 178.225	1,240,331 400,594 320,312 50,517 344,937 353,741	485,185 485,185 515,058 4,718 1,415,232 256,226	2, 26, 8, 141 1, 559 1, 151, 344 523, 931 304, 223 60, 217 446, 806 337, 196	544,863 503,033 7,896 1,486,257 253,061	1,239,018 5,370 1,239,018 592,495 317,733 99,149 357,985 358,247

Mineral Production of Yukon, 1924, 1925 and 1926

The state of	192	4	1925		1926	
Product	Quantity	Value	Quantity	Value	Quantity	Value
METALLIC— Gold	34,825 226,755 903,520	\$ 719,897 151,429 73,221	47,817 904,893 1,875,442	\$ 988,465 624,964 171,040	25,601 2,095,027 5,860,373	\$ 529,220 1,301,159 395,034
Non-Metallic— Coaltons	1,121	8,265 952,812	730	7,172	316	800 2,226,813

Antimony

Antimony ores occur in the provinces of Nova Scotia, New Brunswick, and British Columbia and in the Yukon Territory. It is understood that during 1926, a small quantity was shipped from the Lake George district of New Brunswick to the United States, for experimental purposes.

Antimony is also recovered in small quantities from the silver-lead-bismuth bulion obtained by smelters treating silver-cobalt ores. During the year 1926 there were 1,596 pounds of antimony valued at \$281 contained in such bullion exported for further treatment in American smelters.

Imports into Canada of antimony in 1926 amounted to 1,139,748 pounds valued at \$183,127 as against 879,298 pounds valued at \$124,394 in 1925. There were 34,768 pounds of antimony salts valued at \$7,744 imported during the same period as compared with 36,263 pounds worth \$6,838 during the previous year.

No production of antimony was reported during the first half of 1927.

Arsenic

Arsenic production from Canadian ores amounted to 5,074,677 pounds including sales of white arsenic amounting to 3,984,217 pounds and the recoverable arsenic contained in export shipments of concentrates and residues, amounting to a further 1,090,460 pounds of white arsenic. The value of the total Canadian production was \$146,811 in 1926 compared with \$130,302 for 3,434,137 pounds sold in 1925. The average price of arsenic on the New York market in 1926 was 3.5 cents per pound as against 4.66 cents in 1925.

The greater part of the Canadian production of arsenic is obtained from the south Ontario smelters as a by-product from the orcs of the Cobalt district. A small amount is contained in residues exported from these smelters. British Columbia's annual production of arsenic is contained in concentrates shipped from the Nickel Plate gold mine to the Tacoma smelter for further treatment. No production of arsenic from the arsenical gold ores of Nova Scotia was reported for 1926, or the first half of 1927.

Canada's Production, Imports and Exports of Arsenic, 1925, 1926 and January 1 to June 30, 1927

		192	5	192	6	January I to June 30, 1927		
In It is a second of		Quantity	Value	Quantity	Value	Quantity	Value	
			8		\$		8	
Production-								
From arsenical concentrates and residues exported	Lb.	1,428,885 2,005,252	21,513 108,789	1,090,460	12,687 134,124	415,133 3,251,871	4,796 126,718	
	64							
Total	64	3, 434, 137	130,302	5,974,677	146,811	3,667,004	131,514	
Імгонтя—								
White arsenic	Lb.	498,720	30,305 2,974	144,031 68,829	5,604 3,136	273,666 6.511	10,987	
Sulphide of araenic	66	21,810 6,361	1,709	15.357	3.151	3,396	328	
Exports—			-,,,,,					
White arsenic in arsenical concen-	Lb.	972,000	10,590					
Arsenic, n.o.p.	16	1,762,000	97,748	3,344,000	108, 120	2,897,200	91,443	

Bismuth

There is no metalic bismuth made in Canada but in the treatment of silver-cobalt ores by the smelter of the Deloro Smelting and Refining Company, small quantities of bismuth are accumulated in a bullion with lead and silver. While the percentage of bismuth in the material treated is small it has been found profitable to build up reserves of this bullion until a saleable product is obtained.

Bismuth contained in silver-lead-bismuth bullion exported during 1926 for further treatment in United States smelters amounted to 6,440 pounds valued at \$6,440. There was none exported during the first half of 1927.

Chromite

Chromite is known to occur in the provinces of Quebec and British Columbia. During the war considerable amounts of chromite were mined in Quebec. Some shipments were reported in 1923 but there has been no production since.

Cobalt

Cobalt production in 1926 showed a considerable decline from the previous year, the output amounting to 664,778 pounds valued at \$1,136,014 as against 1,116,492 pounds valued at \$2,328,517 in 1925. This decline in production was caused by the introduction into the world markets, of cobalt from central Africa where it occurs in association with copper in the ores mined by the Union Minière du Haut Katanga. This company now produces about 45 per cent of the world's output and the Canadian production makes up the remaining 55 per cent.

Production figures include the cobalt content of the various cobalt products sold by south Ontario smelters added to the cobalt content of the ores and residues exported for treatment in foreign smelters; the value given is the net amount received by the shippers.

In the first half of 1927 the output of cobalt amounted to 392,837 pounds valued at \$765,748. Exports during the same period reached a value of \$777,406.

Production in Canada and Exports of Cobalt, 1925, 1926 and January 1 to June 30, 1927

gen-turker.	1925		19	26	January 1 to June 30, 1927	
Production— Cobalt, computed as cobalt in metal, oxides and salts sold, and in ores	Pounds	8	Pounds	\$	Pounds	8
and residues exported.	1,116,492	2,328,517	664,778	1,136,014	392,837	765,748
Cobalt alloys, cobalt metallics, cobalt oxides, cobalt salts and cobalt ore.		1,867,607	-	1,064,276	-	777,406

Copper

Copper production from Canadian ores during 1926 amounted to 133,094,942 pounds valued at \$17,490,300. In 1925, production computed on a slightly different basis, as explained below, totalled 111,450,518 pounds valued at \$15,649,882. Copper is produced in the provinces of British Columbia, Ontario and Quebec. British Columbia accounts for about two-thirds of the total Canadian output and Ontario most of the remaining one-third. A smaller amount is produced in the province of Quebec from the Eustis mine, but large deposits are now being opened up in the new Rouyn district of this province and in the near future Quebec will enter the field as one of the large Canadian copper-producing provinces.

Considerable work has been done during the season on the copper ores of the Flin Flon mine in Northern Manitoba and it is understood that a pilot mill will be erected during the coming summer for further research on these ores.

British Columbia's production amounted to 89,108,017 pounds, including blister copper made at the Trail and Granby smelters and the recoverable copper in the copper ores and concentrates from the Britannia and Belmont Surf Inlet mines shipped to United States smelters. The Belmont Surf Inlet mine ceased operations in June 1926.

Ontario's production was obtained mainly from the nickel-copper mines of the Sudbury district where the ore is smelted to a nickel-copper matte. A small amount of copper was recovered from the silver-cobalt ores, and the Argonaut mine, originally a gold producer, shipped copper concentrates to United States smelters for refining. The matte made by the Mond Nickel Company was shipped to Wales for refining. There the copper was extracted in the form of copper sulphate, for sale to the vineyards in southern France and Italy. Some matte made by the International Nickel Company at Copper Cliff was exported to Huntington, West Virginia, U.S.A., for manufacture directly into monel metal; the remainder was shipped to the company's refinery at Port Colborne, Ontario, where converter and electrolytic copper are made.

As noted in the general review at the beginning of this report, changes have been made in the official method of computing copper production statistics and readers of this report should bear this fact in mind in making comparisons between data for 1926 and figures for 1925. To avoid confusion, production figures have been computed for both years according to the method formerly in use and also by the newly-adopted plan. It will be observed that the only difference in figures occurs in those for Ontario. The earlier method, which was very simple and easy, though less accurate than the plan now followed, measured production in terms of copper contained in matte produced at the Sudbury smelters and valued this metal at the monthly average price for the year for electrolytic copper in New York. The new method takes account of copper in matte only when this product is exported; the value of the copper too is taken at 10 cents a pound, which is believed to be a fair value for the copper when it leaves the country in the form of matte. This new method also takes account of copper produced at the refineries. The converter or electrolytic copper which constitute the final products at Port Colborne during the year, are included in production and the value assigned is proportional to the income to the company from similar products sold during the year. While the new method provides for a more conservative evaluation of Canada's copper production, the results are much more in accord with the actual facts than were the figures obtained by the simpler method formerly used.

During the first half of 1927 the production of copper amounted to 73,619,657 pounds valued at \$9,075,634, as compared with a total of 70,843,426 pounds valued at \$9,757,265 in the first half of 1926. There was thus an improvement of 3·9 per cent in the tonnage; as noted elsewhere the values are not comparable due to the change in the method of computation.

Production of Copper in Canada, by Provinces, 1925, 1926, and January 1 to June 30, 1927

	19	25	192	26	January 1 to June 30, 1927	
	Pounds	Value	Pounds	Value	Pounds	Value
(a) Calculated as in previous reports;— British Columbia. Ontario. Quebec.	69,221,600 39,718,777 2,510,141	9,720,097 8,577,311 352,474	89,108,017 48,726,431 2,674,058		49,685,321 26,432,136 2,125,869	\$ 6,338,853 3,372,212 271,218
Total	111,450,518	15,649,882	140,508,506	19,383,147	78,243,326	9,983,283
(b) Calculated ascording to new method adopted in present report: British Columbia	69,221,600 39,698,982 2,510,141	9,720,097 4,771,424 352,474	89, 108, 017 41, 312, 867 2, 674, 058	4,828,964 368,886	49,685,321 21,808,467 2,125,869 73,619,657	6,338,853 2,465,563 271,218 9,075,634

New York price of electrolytic copper 1925 was 14-042 cents per pound.

" 1926 " 13-795 cents per pound.

" " " " " January to June 1927 was 12-758 cents per pound.

Imports into Canada and Exports of Copper, 1925, 1926 and, January 1 to June 30, 1927

	1	1925	19	26	January 1 to	June 30, 1927
	Pounds	Value	Pounds	Value	Pounds	Value
IM PORTS-		3		4		
Copper in bars or rods, when imported by manufacturers of trolley, telegraph and telephone wires, electric wires and electric calles for use only in the manufacture of						
auch articles in their own factories	26,385,300	3,857,482	15, 131, 400	2,212,715	13,470,600	1,956,791
factured	482,500	95,563	2,627,900	490.222	309.900	54,492
Copper in blocks, pigs or ingots		1,138,740	8,599,699	1,231,422	2,248,491	302,376
Copper, ore and concentrates	4,174,100	572,656 269	3,039,400 1,700	408,999 927	3.882.600 200	493,543 220
or coated	1,971,300	400,229	1,882,400	406.988	1,181,400	246, 408
Copper tubing in lengths of not less than 6 feet, and not polished, bent or otherwise						240, 900
manulactured	1,611,987	390,881	2,535,796	579,044	1,235,509	294,479
Copper wire, plain, tinned or plated	287,654	104,686	420,361	111,504	281,958	86,976
Copper wire cloth, or woven wire of copper Copper wire, single or several, covered with cotton, linen, silk, rubber or other mate-	19th	4,379	apo	51,390		8,616
rial, including cable so covered	-	487,779		502,395	_	298.059
Copper, all other, manufactures of, n.o.p	_	415,025	-	578,068	-	314.864
Copper, precipitate of, crude	5,678	661	-	-	-	-
Anodes of nickel, zinc, copper, silver or gold		4,084		4,896		5,333
Copper, sub-acetate of, or verdigris, dry	4,083	812	31,755	2,260	445	104
Copper, sulphate of (blue vitriol)	3,027,088	146,833	3,385,239	158,992	1.932,338	95,870
Copper, sulphate of, dehydrated, for agri- cultural or spraying purposes	156,808	7,662	229,228	11,896	490,346	23,767
printing	_	-	-	350	44	40
Total	100	7,628,341	-	6,752,068	-	4,161,888
Copper, fine, contained in ore, matte regulus,						
etc	60, 597, 500	6,969,960	67, 108, 300	7,822,260	36,089,900	3.891.337
Copper, blister		6.547.397	45,256,300	6,055,266		3.394.055
Copper, old and scrap	5.601.700	658, 458	5,972,400	614, 108	1,903,800	191.675
Copper in bars, rods, strips, sheets, plates	1, t00	126	58,200	7,127	11,200	1,731
and tubing	156,300	45,599	256,900	72,475	169,400	43,635
Copper mfrs., n.o.p.,	Ī	404,600 59,792	40	380,311 57,312		150,924 17,986
Total	-	14,685,932	-	£5,008,859	-	7,691,346

Monthly Average Prices of Copper (Electrolytic), New York and London, 1925, 1926, and January 1 to June 30, 1927

(From the Engineering and Mining Journal)

	New York (In cents per pound)			London (£ Sterling per long ton)		
	1925	1926	1927	1925	1926	1927
January February March April May June July August Septomber November	14-709 14-463 14-004 13:252 13:347 13:399 13:046 14-376 14:350 14:353 13:966	13 · 822 13 · 999 13 · 859 13 · 706 13 · 599 13 · 656 13 · 924 14 · 174 14 · 062 13 · 862 13 · 576 13 · 302	12-990 12-682 13-079 12-808 12-621 12-370	70 · 607 69 · 525 67 · 739 64 · 194 63 · 560 63 · 369 65 · 750 68 · 169 67 · 693 67 · 523 67 · 893 65 · 625	65-325 66-375 65-480 64-600 64-313 64-591 65-625 66-528 66-528 65-551 64-114	62-374 61-116 62-64 61-526 60-88 59-88
Average	14-042	13-795	12.758	66-804	65 - 472	61-40

Gold

Canada's gold production in 1926 again established a new high record with a total of 1,754,228 fine ounces which valued at the standard rate of \$20.671834 per ounce was worth \$36,263,110 as compared with \$35,880,826 in 1925. Ontario contributed 1,497,215 ounces as against 1,461,039 ounces for 1925, establishing a new high production mark for the province. The Porcupine field accounted for 1,145,564 fine ounces, comprising the outputs of the Hollinger mine at 713,000 ounces; the Dome at 190,000 ounces; the McIntyre with slightly more than 185,000 ounces; and a small remainder from other mines in the district. Production from the Kirkland Lake area amounted to 342,798 fine ounces, the leader in this camp being Lake Shore with a production of 134,000 ounces followed by the Wright-Hargreaves with 104,000 ounces; the Teck Hughes with 77,000 ounces, the remainder being made up by the Argonaut, Tough-Oakes-Burnside, and Kirkland Lake. The Barry Hollinger at Boston Creek and smaller mines in different parts of Ontario accounted for the remainder of the provincial output.

Gold was also recovered in the refining of the nickel-copper ores from the Sudbury district.

In British Columbia 16,730 fine ounces of gold were recovered from placer workings, 64,918 fine ounces from Canadian ores treated by the smelters of the province, 25,265 fine ounces in gold bullion, and 118,953 fine ounces estimated as recoverable from concentrates exported to foreign smelters; the principal exporting companies were Belmont Surf Inlet, Britannia and Premier.

In the Yukon 25,344 fine ounces were won from the placers and 257 ounces were contained in the silver-lead ores and concentrates exported.

A small amount of gold was recovered from ores mined in Nova Scotia and Manitoba and from the silver-lead-zinc ores of Quebec.

In the half-year under review the production of gold amounted to 863,031 fine ounces valued at \$17,840,434 or $2 \cdot 5$ per cent under the corresponding figures for the first half of 1926. Ontario's gold output during the half-year amounted to 765,710 fine ounces as compared with a total of 754,274 fine ounces produced by this province in the first half of 1926. Of this total 8 mines in the Porcupine camp produced 561,833 fine ounces and 8 mines in the Kirkland lake camp contributed 202,398 fine ounces. The balance was drawn from various other sources. In the Porcupine camp the Hollinger produced about 60 per cent followed by McIntyre and Dome. In the Kirkland lake camp, Lake Shore continued to be the leader followed by Teck-Hughes and Wright-Hargraves. British Columbia's production during the half-year at 86,993 fine ounces was very considerably below the total of 123,816 fine ounces reported in the first half of 1926. More gold was produced in the Yukon, in Quebec and Nova Scotia in the half-year under review than in the corresponding period of 1926.

Production of Gold in Canada by Provinces, 1925 and 1926

		1925			1926		fa	40
Province	Fine ozs	Value	Per cent of total produc-	Fine	Value	Per cent of total produc-	Increase	
	OND		tion	1703	tio	tion	Quantity	Per cent
		\$			\$			
Ontario	1,461,039 210,227 47,817 1,602 4,424 1,026	30,202,357 4,531,824 988,465 33,116 91,452 33,612	84·16 12·63 2·76 0·10 0·25 0·10	1,497,215 225,800 25,601 3,680 188 1,678	30,950,180 4,669,065 529,220 76,072 3,886 34,687	85.35 12.88 1.45 0.21 0.01 0.10	+30,176 + 6,639 -22,216 + 2,078 - 4,236 + 52	+ 2.48 + 3.03 - 46.46 +129.71 - 95.75 + 3.20
Canada	1,735,785	35,880,826	100-00	1,751,728	36,263,110	109-00	+18,493	+ 1.07

Production of Gold in Canada by Provinces, January 1 to June 30, 1926 and 1927

Province	192	6	1927		
Trovince	Fine ounces	Value	Fine ounces	Value	
		\$			
Ontario British Columbia Yukon Manitoba	754,274 123,816 4,852	15,592,220 2,559,509 100,300 21	765,710 86,993 6,496	15,828,630 1,798,305 134,284	
Judbec Vova Scotia Saskatchewan	1,929 909 32	39,876 18,791 661	2,475 1,357	51.163 28,032	
Total	885,813	18,311,378	863,031	17,840,43	

Production of Placer Gold in the Yukon Territory,* 1925 and 1926

(Quantities in crude ounces)

	(Semination in Aline Adjusted)										
	Day	vson	Whiteh	orse	Total						
Month	1925	1926	1925	1926	1925	1926					
January. February. March. April May. June July. August September. October November. December.	1,483-60 999-38 30-50 - 4,903-62 10,052-62 5,031-77 27,135-80 7,618-72 413-70 1,908-08	175 · 64 2, 666 · 27 3, 138 · 01 4, 264 · 92 4, 213 · 60 5, 486 · 52 6, 574 · 83 2, 999 · 23 1, 874 · 53	85·00 16·70 30·98 8·00 50·00	4·32 	1,483-60 999-38 30-50 	4·32 175·64 2,666·27 3,219·01 4,293·52 4,280·60 5,544·27 6,611·83 3,000·23 1,874·53					
Total	59,580-79	31,392-65	190-68	287-57	59,7"1-47	31,689-22					

Production of placer gold in the Yukon Territory from January 1st to June 30th 1927 (Quantities in crude ounces)

Month _	Dawson Ounces	Whitehorse Ounces	Total ounces
January. February March Aoril May June	550·09 0·00 1,112·59 0·00 973·34 5,479·85	0·00 4·00 0·00 0·00 0·00	550 · 09 4 · 00 1 , 112 · 59 0 · 00 973 · 34 5 , 479 · 85
Total	8,115-87	4,00	8,119-87

"Supplied by the Mining Lands Branch, Department of Interior.

45163-41

Receipts at the Royal Mint, Ottawa, Canada, 1925 and 1926

		1925		1926			
Source	Gross	Precious me	etal content	Gross	Precious metal content		
	weight	Fine gold	Fine silver	weight	l ine gold	1 ine silver	
	Ozs.	Ozs.	Ozs.	()zs.	Ozs.	Ozs.	
Nova Scotia	1,817-56	1,626-429	85.97	1,814-84	1,677-709	112-46	
New Brunswick	8·61 139.130·21	R-598 105,888-118	19.129-98	43-26 1,610,194-93	39·159 1,256,570-437	3 · 67 224 · 105 · 60	
Ontario Manitoba	5.448-61	4,651-355	576-81 5-20	152-51 73-98	128-553 55-306	18-68	
laskatchewan Alberta British Colymbia	2.09	1.553	0.16	5-16	4.045	0.41	
Dominion of Canada Assay Office. Vancouver*	2.04	1.000	_	124,477-87	104.252.882	16.658-25	
rukonewellery and scrap, various sources	20.992.07	8,217-515	3,203-42	29.271-71	12.696 275	4.684-32	
oreign	192.35	138 - 863	43.75	104 - 93	78-133	18-09	
Tuial	167,567-99	120,570-007	23,645-29	1,766,139-19	1,375,502-499	245,610-29	

^{*}Gold from the Assay Office was shipped to the United States in 1925 instead of to the Royal Mint. Ottawa, as in former years.

Receipts at the Royal Mint, Ottawa, Canada, January 1 to June 30, 1927

	1927				
Source		Precious me	etal content		
	Gross weight	Fine gold	Fine silver		
	Oz.	Oz.	Oz.		
Nova Scotia	1,452-82	1,358-669	73-07		
Quebec Ontario. Manitoba.	863,856-93	674,919-811	110,648-60		
Saskatchewan. Alberta British Columbia*	34,719.72	28,889-741	4,250.45		
Yukon Jewellery and serap, various sources. Foreign	16,785-27 409-42	8,943-687 299-559	2,075·91 87·78		
Total	917,224-16	712,409-466	117, 135-81		

[&]quot;Included shipments from the Dominion of Canada Assay Office, Vancouver.

Gold Bullion Received at Dominion of Canada Assay Office, Vancouver, B.C., 1927

	Calendar Year 1926				
	No. of deposits	Weight before melting and assaying	Weight after melting and assaying	Net value of deposits	
		Troy ounces	Troy ounces	8 .	
BAR, NUGGET AND DUST, AMALGAM, ETC.— British Columbia.	680	121,827-30	105,995-60	1,925.122-21	
Yukon Territory	412	32,686-16 164-36	32,010-41 155-96	537.821-66 2.769-62	
Alberta	1	85 · 10	84-90	1,468-38	
DENTAL AND JEWELLERY SCRAP-	200	0.000 70	E 707 79	45.024-91	
British Columbia	508	6.323·79 800·38	5,707·71 694·09	7.166-42	
Saskatchewan	30	325.76	262-63	3.126.80	
Manitoba	16	393 - 71	368-22	1.837-52	
Total	1.752	182,606.56	145,279-61	2,524,337-58	

Imports into Canada and Exports of Gold, 1925, 1926, and January 1 to June 30, 1927.

	1925	1926	January 1 to June 30 1927
	8	\$	8
IMPORTS—			
Coin and bullion— Coins. British, Canadian and foreign gold coins. Gold bullion, in bars, blocks, ingots, drops, sheets or plates, unmanu—	49,477,383	45,077,807	4.575,750
facturedfactured	1,031,597	2,048,033	388, 116
Total	50,508,980	47,125,840	4,963,866
Gold, other— Bullion or fringe gold Manufactures of gold and silver—	27,215	34,836	16,548
Leaf Sweepings	78,364 2,282	87,597 2,676	55,893 236
Manufactures, n.o.p. Electroplated ware. Medals of gold, silver or copper, and other metallic articles, actually bestowed as troplies or prizes, and received and accepted as honorary distinctions, and cups or other metallic prises won in	147,839 707,726	846,216	453,632
bona fide competitions.		21,006	9,496
Total	961,426	992,331	536, 105
Exports— Coin and bullion— Gold coin—			
Canadian Foreign Gold bullion—	3,026	4,000,000 24,010,603	1,035 41,002,000
Canadian	333,090	41,812,356	2,011,391
Foreign		1415 1715	1111 1111111111
Total—Canadian Foreign	333,898 3,826	45,812,356 24,010,603	2,012,396 41,092,000
Gold-bearing quartz, dust, nuggets and bullion obtained direct from mining operations	31,432,647	7,340,451	3,459,742

^{*}Included with silver imports under manufactures of gold and silver, n.o.p.

Iron Ore

Iron ore shipments from Canadian mines during 1926 were practically negligible. A small quantity of titanic ore amounting to 200 tons and valued at \$600 was shipped by the Manitou Iron Mining Company to England for experimental purposes.

Considerable research work is being done on the ilmenite ore of Quebec by the Research' Laboratories of the Department of Mines at Ottawa with a view to making an economic recovery of both the titanium and the iron.

There was no production of pig iron from Canadian ores in Canada during 1926 or during the first half of 1927.

Shipments from the Wabana mines of Newfoundland while not included in the mineral production of Canada are always of interest to Canadian readers because of the volume of shipments to the steel plants of Nova Scotia. During 1926 shipments from Wabana mines totalled 969,601 short tons. Of this amount 503,640 tons were exported to Europe and the balance, 465,961 tons to Canada.

During the half-year ending June 30, 1927, shipments totalled 378,638 tons of which 119,920 tons were shipped to Sydney, N.S., and the balance was exported to Germany.

Pig Iron, Steel Ingots and Castings

During 1926 Canada's primary iron and steel industry showed considerable improvement in quantity production over the previous year, largely because of the pronounced prosperity of the construction and automotive industries, and the improved condition of Canadian railways as reflected by large orders for rails and new equipment. Production of pig iron totalled 737,503 long tons, an increase of 29 per cent over the total for 1925, while steel ingots and direct steel castings at 776,888 tons showed little change from the 752,695 tons of 1925. While the greater tonnages indicated some general improvement in the iron and steel business in Canada the returns to the industry were restricted by the lower prices prevailing during the year. Imports of European steel into the Maritime provinces and foreign iron into the castern United States, both at low valuations, tended to keep prices down.

Pig Iron.—During the twelve months of 1926 the cumulative production of pig iron was 737,503 tons or 29 per cent over the 570,397 tons of 1925, and 24 per cent more than the 593,024 tons of 1924. In 1923 production totalled 880,018 tons. During the year under review 461,028 tons, or 63 per cent of the total, were produced for the further use of the makers and the balance. 276,475 tons or 37 per cent, was intended for sale. Production for the year included 477,700 tons of basic iron, 218,155 tons of foundry iron and 41,648 tons of mallcable iron.

Taking the population of Canada at 9,390,300 persons in 1926, the per capita production of coke pig iron amounted to 176 pounds, as against 136 pounds in the previous year, 144 pounds

in 1924, an average of 216 pounds in 1923 and 96 pounds in 1922.

Ontario produced 488,000 tons of pig iron or 66 per cent of the year's output as against 65 per cent of the total in 1925; the balance was accounted for by Nova Scotia in both years. Plants in Ontario produced 32,000 tons in January and this rate was maintained until April when rail orders caused a sharp rise to 47,000 tons. The maximum of 51,000 tons was attained in May and production was maintained around this level until November when it fell off sharply to 30,000 tons; the year ended with production showing a slight upward trend at 31,000 tons in December. Nova Scotia started the year with an output of 25,000 tons in January, which proved to be the maximum for any month during the year. Production declined to 20,000 tons in February, remained around that figure until July, then dropped sharply in August to the low for the year of 14,000 tons, increased to 22,000 tons in October, when substantial rail orders were received, and closed the year at 23,000 tons in December.

. For the whole of Canada furnace charges during the year totalled 1,313,011 long tons of imported iron ore, 822,278 short tons of coke and 400,540 short tons of limestone. For each long ton of iron made, the charge to the furnaces included 3,988 pounds of ore, 2,229 pounds

of coke and 1,086 pounds of limestone.

possible production.

Five furnaces, having a total daily capacity of 1,825 tons or about 36 per cent of the total capacity of all blast furnaces in Canada, were in blast on December 31st. The active furnaces were located as follows: 2 at Sydney, N.S.; 2 at Hamilton, Ont.; and 1 at Sault Ste. Marie, Ontario. There are 15 iron blast furnaces in Canada, which if operated at capacity the year round could produce 1.8 million tons of pig iron. Actual production in 1926 amounted to 737,503 tons so that about 41 per cent of the total possible output was produced during the year. In 1925, corresponding figures showed an output amounting to 32 per cent of the total

For the first six months of 1927 production of pig iron in Canada totalled 403,713 long tons, a gain of 9 per cent over the 370,864 tons produced in the first six months of last year and 39 per cent over the 290,892 tons made during the corresponding period of 1925. This year's output included 291,222 tons of basic iron, 85,979 tons of foundry iron and 26,512 tons of malleable iron. Most of the basic iron was produced for the further use of the makers but the bulk of the foundry iron and all the malleable iron were made for sale. Furnace charges for the six months' period totalled 723,038 long tons of ore, 448,741 short tons of coke and 221,481 short tons of limestone. On June 30, six furnaces having a daily capacity of 2,375 long tons or 47

per cent of the total capacity of all blast furnaces in Canada were in blast at the following points: 2 at Sydney, N.S.; 2 at Hamilton, Ont.; and 2 at Sault Ste. Marie, Out.

Prices.—A review of the price trend for 1926 shows that iron and its products fluctuated Mithin narrower limits and at lower levels than in 1925. Based on 1913 prices as 100, the Bureau's index was 147.5 in January, the high point of the year. It gradually declined to 143.5 in June, the low point of the year, and then rose slightly each month to 146.0 in December. In 1925, the highest point for the year was reached at 158.8 in February and the lowest at 147.1 in November.

A review of the six months' period ending June 30, 1927 shows that pig iron prices were highest in January. Due to restricted buying and a tendency to lower levels in the United States, prices declined in February and remained stable or slightly under the February level for the balance of the half-year. The Bureau's index numbers for iron and its products (1913 prices = 100) showed a narrow range varying from 145.5 in January, to 144.4 in February, 143.7 in April and thereafter remaining practically stationary closing the half-year at 143.5.

Ferro-Alloys.—During 1926 the total output of ferro-alloys in Canada was 57,416 tons. Over one-half of this year's output was high grade ferro-anganese and the balance was ferro-silicon. Only 4 plants in Canada reported a production of ferro-alloys during 1926.

For the first six months of 1927 production totalled 28,734 tons, the same 4 plants were in operation and the output consisted of ferrosilicon of grades from 15 to 80 per cent and high grade ferromanganese.

Steel Ingots and Direct Steel Castings.—Production of steel ingots and castings during 1926 totalled 776,888 tons, an increase of 3 per cent over the 752,695 tons of the previous year. In 1924 the output was 650,690 tons and in 1925 amounted to 884,770 tons. In 1926 the figures included 743,550 tons of steel ingots and 33,338 tons of direct castings as compared with 733,855 tons of ingots and 18,840 tons of castings in 1925. Per capita production of ingots and castings amounted to 185 pounds during the year under review, 180 pounds in 1925, an average of 158 pounds in 1924 and 217 pounds in 1923.

Production of steel ingots and direct eastings totalled 69,000 tons in January, dropped to 53,000 tons in February, then rose sharply until in May the maximum for the year was reached at 90,000 tons. Output in August reached the lowest point for the year at 46,000 tons and the output then averaged about 58,000 to 59,000 tons per month until December when a slight increase was recorded.

During 1926 four firms in Canada reported a production of steel ingots from basic open hearth furnaces, 3 concerns made basic open hearth castings, 3 made converter castings and 9 firms produced direct castings from electric furnaces.

For the six months ending June, 1927, the production of steel ingots and castings amounted to 487,310 tons as compared with 431,184 tons in the first half of 1926 and 423,697 tons in the corresponding period of 1925. This year's output included 462,393 tons of steel ingots and 24,917 tons of direct castings as compared with 410,603 tons of ingots and 20,581 tons of castings in 1926.

Production of Pig-Iron and Ferro-Alloys in Canada, 1925 and 1926

(Tons of 2,240 lbs.)

		1	925			1	926	
	In blast furnace		In electric furnace	Till of a B	In blast	furnace	In electric furnace	(Mada)
	For own use	For sele	For sale	Total	For own use	For	For sale	Total
Pig iron— Rasje Foundry Malleable	422,805 304 936	1,710 101,690 42,952		421,515 101,994 43,888	458,726 2,302	18,974 215,853 41,648	-	477,700 218,153 41,648
Total Pig Iron	424,045	146,352	- 4	570,397	461,028	276,475	-	737,503
Total Ferro-Alloys	_		25,700	25,709	-		37,954	37,95

Production of Pig Iron, and Ferro-Alloys in Canada, January 1 to June 30, 1926 and 1927 (Tons of 2,240 lbs.)

1926 In In blast furnace electric In blast furnace electric furnace Total Total For For For OWB HEE OWN UND Pig Iron-250.147 7,312 92,185 257,459 8,535 282.687 291, 222 85,253 26,512 20 082 26,512 28.6K2 Total Pig-Iron. 251,285 119,579 370,864 283,413 120,300 403,713 17,851 Total Ferro-Alloys 17,851 26,958 26,958

Production of Steel Ingots and Castings in Canada, 1925 and 1926

(Tons of 2,240 lbs.)

		1925				
	For own use	l or sale	Total	For own use	For sale	Tetal
Steel ingots— Open hearth—Basic	722.603		722,603	726,852	25	726,877
BessemerOtherElectric	11,252	-	11,252	16.673	-	16,673
Total Steel Ingots	733,855	-	733,855	743,525	25	743,556
Steel castings— Open hearth—Basic	1,540	7,471	9,011	1,902	17,553	19,455
Acid	78 34	1.674 8.043	1,752 8,077	87 85	1,551 12,160	1,635
Total Direct Steel Castings	1,652	17,188	18,840	2,074	31,264	33,335
Grand Total	735,507	17,188	752,695	745,599	31,289	776,888

Production of Steel Ingots and Castings in Canada, January 1 to June 30, 1926 and 1927

(Tons of 2,240 lbs.)

		1926		1927		
	For own use	For sale	Total production	For own use	For sale	Total production
Steel Ingots — Open Hearth—Basic Other	401,111 9,492	-	401,111 9,492	458.071 4.322	1	458,071 4,323
Total Steel Ingots	410,603	-	410,603	462,393	-	462,393
Steel Castings — Open Hearth—Basic Acid Basaen er	991	12,394 754	13,385	1.003	11.497	12,500
Electric	14	6,300	6,404	186	11,067	11,253
Total Direct Steel Castings	1,043	19,538	20,581	1 236	23,681	24,917
Grand Totals	411,646	19,538	431,184	463,629	23,681	487, 31

Lead

Another new record for the output of lead from Canadian ores was established in 1926. The greater part of Canada's production was from the Trail smelter which received a large proportion of its lead ores from the Sullivan mine at Kimberley, B.C., but which also purchased silver-lead-zine ores from the Kootenay district. The remainder of Canada's production comprised pig lead produced from Galetta, Ontario, and lead from lead ores and concentrates shipped from the Mayo district of the Yukon Territory and from the Tetreault mine in Quebec.

While the total production of the Galetta smelter is sold in Canada, the greater part of the production from the Trail smelter is sold in Europe and in the Orient, and since the latter sales are based on the London market rather than on Montreal, it was decided in 1926 to make the method of computation conform to this sales practice, and to use the London market quotations rather than those corrent in Montreal. Except for Ontario, where the sales value as given by the smelter was used, Canada's production in 1926, therefore, was valued at 6.751 cents per pound, the average of London quotations for the year, conversion to Canadian funds being made at par. Canada's total production of lead in 1926 amounted to 283,801,265 pounds and thus was worth \$19,240,661 as against 253,590,578 pounds produced in 1925 and valued at \$23,127,460, on the basis of 9.12 cents per pound, which was the average of the Montreal quotations for that year. The London price in 1925 was 7.914 cents per pound.

In the half-year under review the production of lead amounted to 152,275,563 pounds valued at \$8,803,676 marking an advance of 10 per cent in the quantities produced in comparison with the figures for the corresponding period of 1926. British Columbia contributed by far the greater part, the output for this province being 143,454,656 pounds valued at \$8,244,339. Ontario's output amounted to 3,677,719 pounds; Quebec produced 2,932,227 pounds; and the Yukon reported 2,210,961 pounds.

Production of Lead in Canada 1925, 1926, and January 1 to June 30, 1927.

	19	25	19	26	January 1 to June 30, 19	
	Pounds	Value	Pounds	Value	Pounds	Value
(a) Calculated at average Montreal price for the year, as in previous reports— Quebec. Ontario, British Columbia. Yukon,	2,051,100 7,209,534	\$ 187,000 657,510 22,111,850 171,040 23,127,466	3,729,636 7,307,830 266,812,461 5,860,373	\$ 304.114 595,880 21,755,888 477,855 23,183,737	2.932,227 3.677,719 143,454,656 2,210,961 152,275,563	211,707 265,531 10,357,426 159,631
(b) Calculated at average London price for the year except in Ontario (see text)— Quebec. Ontario. British Columbia Yukon.	2,051,100 7,268,193 242,454,502 1,875,442 253,649,237	162,324 604,798 19,187,849 148,422 20,163,393	3,720,636 7,398,795 266,812,461 5,860,373 283,861,265	251,788 580,730 18,012,509 395,634	2,932,227 3,677,719 143,454,656 2,210,961 152,275,563	168, 511 263, 751 8, 244, 339 127, 064 8, 803, 676

Note.—Montreal price of lead in 1925 was 9-12 cents per pound and in 1926 was 8-154 cents and in the first six months 1927—7-227 cents per pound. London price of lead in 1925 was 7-914 cents per pound and in 1926 was 6-751 cents per pound and in the first six months 1927 was 5-747 cents per pound.

Imports into Canada and Exports of Lead, 1925, 1926, and January 1 to June 30, 1927

	19	325	19	26	January 1 to June 30, 193	
	Quantity	Value	Quantity	Value	Quantity	Value
	th.	\$	1b.	8	lb.	8
Imponts-						
Old and scrap, pig and block	505,555	50,606	766,939	67.671	215,995	18,701
Burs and sheets.	104,814	10,554	116,846	11,887	52.526	4,346
Litharge Aretnte and nitrate of lead.	1,515,300	159,576	2,229,600	223.839	1.561,700	138,647
Other manufactures	222,535	20,516	140.046	13,492	168,137	14,078
Pipe lead	42,592	237,717	410 044	263,398	4 2 4 4 4	159,965
Shots and bullets	6,040	923	116.344 12.316	11,011	59,515	4,831
Tea lead	131,402	16,260	83.531	10,362	12,344 29,568	1,181
Lead pigments—						
Dry white lead	47,549	4.749	60,606	5,539	116.032	16.385
White lead, ground in oil	127,016	14,795	73,468	7,539	151,068	11,502
Dry red lead and orange mineral	628,648	88,500	1,158,873	112,915	656,589	57.954
Total	-	588,394	-	729,196	-	424,679
Exports-						
Lead, contained in ore	37,504,500	2,341,679	13,644,900	796,412	7,001,800	005 074
Pig lend	180, 130, 800	11,809,305	202,510,300	12,983,907	121,763,400	225,971 6,738,543
				12,000,001	221,1301,100	0,740,040
Total	197,635,300	14,150,984	216, 155, 200	13,780,319	128,765,200	6,964,514

Monthly Average Prices of Pig Lead, Montreal*, New York and London†, 1925, 1926 and January 1 to June 30, 1927

Month	Montreal (Value in cents per pound)			New York (Value in cents per pound)			London‡ (Value in pounds sterling per long ton)		
	1925	1926	1927	1925	1926	1927	1925	1926	1927
January February March April May June July August September October November December	10·04 9·56 9·29 8·29 8·14 8·46 8·74 9·53 9·55 9·40 9·02	9·07 8·92 8·54 7·79 7·53 7·81 8·07 8·30 8·23 8·00 7·82 7·77	7.52 7.48 7.62 7.22 6.82 6.65	10-169 9-428 8-914 8-005 7-985 8-321 8-151 9-192 9-508 9-513 9-739 9-310	9·255 9·154 8·386 7·971 7·751 8·033 8·499 8·908 8·786 8·402 8·005 7·855	7.577 7.420 7.577 7.126 6.616 6.414	41 · 443 37 · 944 36 · 804 32 · 791 32 · 283 33 · 479 34 · 698 38 · 188 39 · 884 39 · 017 36 · 872 34 · 739	34·778 33·903 31·625 28·775 28·253 29·986 31·710 32·756 32·085 30·821 29·270 28·932	27 · 485 27 · 34 · 27 · 845 26 · 540 25 · 054 24 · 438
Average	9-12	8-15	7.52	9-020	8-417	7-123	36 429	31-075	26-452

^{*}Producers' prices for car load quantities ex-cars Montreal, as furnished by the Consolidated Mining and Smelting Company.

tFrom the Engineering and Mining Journal.

Statement of the Consolidated Mining and Smelting Company, Limited, Showing Ore, Concentrates, etc., received during the year 1926

Name of Mine	Address	Dry tons ore	Dry tons concentrate
llenby.	Allenby, B.C		31.84
lameda		3	
mes	Rock Creek, B.C.	3	
lice		131	
lpha	Silverton B C	56	
llin.	Atlin B C	155	
urora	Aldridge, B.C	1,815	
lajno.		64	
Juebell		14.638	3.26
ell	Beaverdell, B.C	1,034	
eaver		32	
lack Colt		216	
oulder City Group		7	
		538	
osun,rookivn.	Greenwood, B.C.	31	
Ounty		7	
luebird		6	
oundary M. & E. Co.		50	
ork-Province		1.982	1:
rescent		14	-
harleston	Retallack, B.C.	31	
olonial		104	
anadian Group	Sundan R.C	117	
unwell		201	
outhie		1.646	
avbreak		80	
)-A	Greenwood, B.C	1	
ота	Three Forks, B.C	1	
aisy		2	
Daugherty		7	
Discovery		1	
merald			
speranza		8	
ureka	377 3 13 63	3	
lkhorn	3 50 60	12	
nterprise		686	
nterprise		14	
cho		26	
alena Farm		1.361	
old Drop		1	
oodenough	1	473	
alena		8	
rnnite		10	
old Pick		3	
lope	Sandon, B.C.	35	
lewitt.		128	
Iopp, J.		1	1

¹Computed at par (84-8666), the London price of lead in 1925 was 7-914 cents per pound, and in 1926 was 6-751 cents per pound and during first six months of 1927 was 5-747 cents per pound.

Statement of the Consolidated Mining and Smelting Company, Limited, Showing Ore, Concentrates, etc., received during the year 1926—Continued

		Dry	Dry
Name of Mine	Address	tons	tons
		970	concentrates
Hot Puneh	Lake Windermere, B.C	7	
Homestake	Louis Creek, B.C	1.582	
1.X.L.	Rossland, B.C	4	
Jewell	Rossland, B.C	54	
Jeanette Knob Hill	Ainsworth, B.C	11	
Key	Republic, Wash. Lako Win lermere, B.C	348 27	
Lucky Jin	Zineton, B.C.	19,776	14
La Rose	Alice Arm, B.C	42	
Logie, J. S. Lake Shore.	Ainsworth, B.C	14	
Linzard Creek	Wyndel, B.C.	1	
Lead Ogen	Wyndel, B.C. Briscoe, B.C.	35	
Last Chance. Munitoba Metals Co.	Republic, Wash	5,932	
Mastadon	LePas, Man	24	
Merritt Mines, Ltd	Coyle, B.C	42	
Monitor	Three Forks, B.C	238	
Mammoth Metals Recovery	Silverton, B.C.	120	\$13
Multiplex	Arrawhend B.C.	137	DYG
Mountain Chief.	Silverton, B.C. Retallack, B.C. Arrowhead, B.C. New Deaver, B.C.	209	
Molly Gibson	Battas Landing, B.C	44	
Minima	Rossland, B.C	2	
Metallie	Silverton, B.C.	112	
Molly Hughes	Silverton, B.C New Denver, B.C	6-1	
McAllister	Three Forks, B.C. Stewart, B.C. Boundary Falls, B.C.	5,788	
Nortfiland Nu. Seven Nolde Five	Boundary Falls R C	15	
Nolde Five	Diandon RC	148	
Old Hickory	Republic, Wash	30	
Ottawa. Paradise.	Slocan City, B.C	26 737	
Province	Greenwood, B.C.	84	
Planet Penticton Mining Co.	Nicola, B.C	29	
Penticton Mining Co	Pentictoa, B.C	5	W- 13 hr
Prosperity	Stewart, B.C	29 18	
Porter-Idaho	Ymir, B.C	174	
Princess	Laurier RC	22	
Quilp	Republic, Wash	8,705	
Queen Victoria Queen Queen Richnond-Eureka	Beasley, B.C.	29	
Queen	Salmo, B.C	24	
Richmond-Eureka	Sandon R.C.	59	
	Keen, B.C Beaverdell, B.C New Deaver, B.C	5 14	
Revenge Roseberry-Surprise	New Deaver, B.C.	833	
{{uth	Sandon, B.C	1,250	
Rhode-Island		18	
Rambler-Cariboo. Renfrew.	Inllinga RC	359 28	
Silver Reef	Nelson, B.C.	4	
Silver Cup	Nelson, B.C. Hazelton, B.C. Similkanmen, B.C.	50	
Silver Star	Lake Windermere, B.C	8	
Silver Spray	Benverdell, B.C	1,232	
Silver King	Hale Windermore RC	22	
Sarprise	Howser, B.C. Wisteria, B.C. Oroville, Wash Sandon, B.C.	6	
Seel, Geo	Ornville Wash	1	
Silversmith	Sandon, B.C		3,916
Star	Lake Whorrmere, D.C.,	3	
Standard	Silverton, B.C.	89	
Surmitt		172	
Simmons, J. D.	Galloway, B.C. Kimberley, B.C. Birch Island, B.C.	17	
Stemwinder	Kimberley, B.C	19,058	
Starkov B A	Birch Island, B.C	15	
Sinuggler Starkey, F. A Spokang Trinket	Birch Island, B.C. Nelson, B.C. Ainsworth B.C. Answorth, B.C.	67	10000
Silver Hoard		2.4	
Sovereign	Sandon, B.C.	25 25	
Silver Hill	Republic, Wash	111	
Tariff	Republic, Wash	101	
Theima		1 000	
Trevitt	Republic, Wash	1,873	
Trade Dollar.	Sandon, B C	66	
Velvet	Sandon, B.C	164	
45 163—5}			

Statement of the Consolidated Mining and Smelting Company, Limited, Showing Ore, Concentrates, etc., received during the year 1926—concluded

Name of Mine	Address	Dry tons ore	Dry tons concentrates
Van Roi Victor Whitewater Wonderful Wellington Widdowson, E White Cat Yankee Girl. Yankee Girl.	Sandon, B.C. Retallack, B.C. Sandon, B.C. Beaverdell, B.C. Nelson, B.C. Lake Windermere, B.C. Ymir, B.C.	33 43 10,087 937 211 2 34 17,571	97
	Total Customs	125,591 57,130	40,157 307,320
	Total	192,721	347,47

Manganese

No production of manganese has been reported since 1924 when 584 tons of ore valued at \$4,088 were produced in the province of New Brunswick. Deposits of manganese are also known to occur in Lunenburg County, Nova Scotia, and in British Columbia near the town of Kaslo.

Mercury

There was no production of mercury reported during 1926 or during the first half of 1927.

Molybdenum

Molybdenite is found in many sections of Canada. The Woods Molybdenum Company of Quyon, Quebec, was the only company to report any production for 1926. Several prospects were developed during the war when the demand for this metal for use in the manufacture of certain alloy steels was great. Since that time, with the one exception, these properties have been idle. Production in 1926 amounted to 25,168 pounds of molybdenum concentrates containing 20,943 pounds of molybdenum sulphide valued at \$10,472. In 1925 the production was 30,764 pounds of molybdenum concentrates containing 72.65 per cent MoS₂ or 22,350 pounds of molybdenum sulphide valued at \$11,176. There was no production during the first half of 1927.

Nickel

Nickel production in 1926 amounted to 65,714,294 pounds valued at \$14,374,163 as against the 1925 production of 73,857,114 pounds valued at \$15,946,672. This production was made up of nickel in matte and speiss exported from the Canadian smelters valued at 18 cents per pound; refined and electrolytic nickel produced, valued at the average price received for sales of metal during the year; and the nickel equivalent in oxides and salts sold, this nickel being valued at the sum obtained from the sale of the oxides and salts.

Mining and smelting of nickel-copper ores was carried on during the year by the two producing companies, the International Nickel Company of Canada at Copper Cliff and the Mond Nickel Company operating at Coniston. An extensive development program was launched during the year by the International Nickel Company to meet the growing demand for nickel that has arisen as the result of research work looking to the further commercial utilization of this important metal. Recovery of the sulphur in the waste gases from the converters, was continued by the Mond Company; the manufacture and sale of sulphuric acid of great purity and low cost by this company has been an appreciable factor in lowering the costs of production in many acid using industries.

Mining, smelting and refining are carried on by the International Nickel Company in Canada, the mines and smelter being at Coniston and the refinery at Port Colborne. The smelter produces a nickel-copper matte containing from 50 to 53 per cent nickel, and 27 to 30 per cent copper, the balance being mostly sulphur. Some of the matte is shipped to Port Colborne for refining,

the products there being, refined and electrolytic nickel, nickel oxide and salts, and hlister or converter copper ready for further refining. For the manufacture of monel metal, some matte is shipped directly from the smelter to Huntington, W.Va., U.S.A., where it is introduced into the furnace charges for the direct production of the alloy "monel metal."

The Mond Nickel Company also operates mines and a smelter at Coniston, but as the Mond refining process uses a large amount of anthracite coal, it is necessary to ship the matte to the plant near Clydach, Wales (which is located in close proximity to a suitable coal mine.) There, the nickel-copper matte is treated, the products being a very pure nickel, and copper sulphate. The copper sulphate is marketed in the vineyard countries of France and Italy. Buyers in these areas are most discriminating in their purchases, and large sums of money have been spent in the cultivation of the trade; but for many years the needs of the most discerning buyers have been met and so the trade has been maintained.

In the half-year ending June 30, 1927, the output of nickel amounted to 34,781,199 pounds valued at \$8,008.823 marking gains of 0.8 per cent in tonnage and 4 per cent in value over the totals for the first half of 1926. Slightly less nickel was exported in the form of matte and speiss but the output of refined and electrolytic nickel was greater than in the first half of 1926. There were 34,781,199 pounds of nickel produced during the half-year; 15,108,124 pounds were contained in matte and speiss exported, 16,014,747 pounds were produced as refined and electrolytic nickel and 3,658,328 pounds were contained in oxides and salts sold.

Production in Canada and Exports of Nickel, 1925, 1926, and January 1 to June 30, 1927

	19	25	192	26	January 1 to June 30, 1927		
	Quantity	Quantity Value		Value	Quantity	Value	
P	Pounds	8	Pounds	8	Pounds	\$	
PRODUCTION— Nickel in matte and speiss exported* Refined and electrolytic nickel produced. Nickel in oxides and salts sold	32,787,846 31,976,310 9,092,958	5,901,812 7,315,701 2,729,159	34,028,211 25,627,602 6,058,481	6,125,078 6,423,401 1,825,684	16,014,747	2,719,462 4,176,318 1,113,043	
Total	73,857,114	15,946,672	65,714,294	14,374,163	34,781,199	8,008,823	
Exports— Nickel, fine Nickel contained in matte	30,116,400 40,207,900	5,980,920 6,693,805	24,698,400 39,177,400	6,386,387 6,074,497		3,601,313 3,314,793	
Total	70,324,200	12,674,725	63,875,800	12,460,884	33,319,900	6,916,100	

^{*}Nickel in matte and speiss exported valued at 18 cents per pound.

Output from Nickel-Copper Mines and Smelters, 1923, 1924, 1925, 1926, and January 1 to June 30, 1927

	Unit	1923	1924	1925	1926	January 1 to June 30, 1927
Ore mined	Ton Ton	1,187,355 1,168,139	1,411,978 1,354,650	1,264,748 1,264,748	1,322,050 1,322,050	
Content of ores, etc., shipped— Copper. Nickel. Ore and concentrates treated at smelters. Matte produced. Content of matte.—	Pound Pound Ton Ton	35,635,726 72,855,433 1,140,160 58,084	42,349,039 81,068,547 1,307,693 65,944	44,007,830 85,305,242 1,258,849 70,286	55,096,719 90,110,865 1,309,782 78,643	42,613,470 665,366
Copper Nickel Matte shipped to Canadian refineries Matte exported to foreign refineries	Pound Pound Ton Ton	31,538,710 62,057,835 35,612 21,450	36,979,424 69,276,313 34,835 26,565	39,272,989 73,191,202 38,567 32,397	48,318,735 78,076,003 34,042 34,908	39,460,960 21,536

Metals of the Platinum Group

Metals of the platinum group produced from Canadian ores in 1926 amounted to \$1,563,785 in value. This total includes values for the platinum group metals from the British Columbia placers and also the values obtained from the treatment of nickel-copper made at Port Colborne, Ontario, and at Clydach, Wales.

Canada stands third in the world's production of these metals, larger amounts coming from Russia, and Colombia, South America. In British Columbia small quantities are found in placer deposits with alluvial gold and black sands; in Ontario these rare metals occur with the nickel-copper-sulphide ores of the Sudbury district. Copper-nickel matte containing the precious metals is made at Coniston by the Mond Nickel Company Limited and at Coppercliff by the International Nickel Company Limited. The Mond matte is shipped to Clydach, Wales, for refining; International matte is shipped either to the United States, for manufacture into monel metal, or to Port Colborne, Ontario, for refining. When the copper and nickel are removed, the residues are further refined for the recovery of gold, silver, platinum and palladium with smaller amounts of rhodium and iridium.

For the half-year ending June 30, 1927, the price of platinum in New York averaged \$97.272 per ounce as against an average during the calendar year 1926 of \$113.269 and \$119.093 during the calendar year 1925. The decline in the price of platinum reduced the value during the half-year to a point 26.5 per cent below the aggregate value for the first half of 1926 while the production during that year was 4 per cent greater than in the corresponding period of the preceding year.

Canada's Production of Platinum Group Metals, 1925, 1926, and January 1 to June 30, 1927

	19	25	19	26	Jan, 1 to June 30, 1927	
_	Platinum	Palladium, Rhodium, etc.	Platinum	Palladium, Rhodium, etc.	Platinum	Palladium, Rhodium, etc.
Produced by Canadian, United States and British refineries from Canadian mattes and residues. Fine oz. Value, \$ British Columbia placers. Value, \$	8,692 1,027,477 6 715	8,288 648,069	9,471 919,349 50 4,258	10,024 640,178	5,374 424,546	5,7 9 6 315,940
TotalFine oz. Value, s	8,688 1,028,192	8,288 549,969	9,521 923,607	10,024 640,178	5,374 474,546	5,796 315,946

Imports into Canada and Exports of Platinum, 1925, 1926, and January 1 to June, 30, 1927

	192	5	192	6	Jan. 1 to June 30, 1927		
	Quantity	Value	Quantity	Value	Quantity	Value	
	Oz.	S	Oz.	. 8	Oz.	8	
IMPORTS— Platinum retorts Platinum wire, and in bars, strips, etc Platinum crucibles		41,006 157,914 39,685	-	40,028 138,433 8,960		47, 113 2, 702	
Total	-	238,605	-	187,421		49,91	
Exports— Contained in concentrates. Platinum, old and scrap	404 655	42,489 76,423	520 396	54,747 40,185	48 73	4,239 6,603	
Total	1,059	118,912	916	94,932	121	10,84	

Silver

Silver production in Canada in 1926 amounted to 22,371,924 ounces which valued at the New York price for the year (62·107 cents), was worth \$13,894,531. In 1925 the silver output amounted to 20,228,988 ounces valued at \$13,971,150 when the average price was 69·065 cents per ounce. Among the largest silver producers in Canada is the Sullivan mine which, although primarily a world-renowned lead and zinc mine, produced in 1926 more than 4·5 millions ounces of silver. The Premier mine in northern British Columbia produced more than 3 million ounces. In Ontario the largest producers were the Nipissing mine with 1·9 million ounces and the Keeley mine with 1·7 million ounces. The Frontier Lorraine Mines produced slightly more than a million ounces and the Castle Tretheway slightly less than a million ounces in 1926.

Canada's silver production is obtained principally from the silver-cobalt mines of northern Ontario, from the silver-lead-zinc mines and copper-gold mines of British Columbia, the high-grade silver-lead ores of the Mayo district of the Yukon while small amounts are recovered from the copper ores and silver-lead-zinc ores exported from the province of Quebec. The gold mines in northern Ontario all report silver with their gold production generally in the proportion of 7 or 8 ounces of gold to 1 ounce of silver.

Silver production during the half-year ending June 30, 1927, amounted to 11,723,218 fine ounces as compared with 11,108,310 fine ounces produced during the first half of 1926; this was a gain of 5.5 per cent in quantity. Lower prices for silver resulted in the aggregate value of the half year's output dropping to 9.7 per cent below the value of the output in the first half of 1926. Production in Ontario totalled 4,948,888 fine ounces as compared with 4,542,420 fine ounces in the first half of 1926. British Columbia mines yielded 5,368,074 fine ounces as against 5,150,853 fine ounces during the corresponding period of last year. The output from the Yukon at 1,120,722 fine ounces was slightly less than the total of 1,248,537 fine ounces in the first half of the preceding year. In Quebec production amounted to 285,461 fine ounces and 73 fine ounces were obtained from Nova Scotia ores.

British Columbia, which took first place among the silver producing provinces in 1926, continued to hold this position in the first half of 1927.

Production of Silver in Canada by Provinces, 1925 and 1926

		1925		1926			
Province	Quantity	Value	Per cent of total production	Quantity	Value	Per cent of total production	
Quebec. Ontario Manitoba and Nova Scotia British Columbia Yukon Territory (contained in placer gold and in ores exported).	Oz. 214,943 10,529,131 563 8,579,458 904,893	\$ 148,451 7,271,944 388 5,925,403 624,964	Per cent 1 · 06 52 · 28 42 · 40 4 · 26	Oz. 375,986 9,274,965 130 10,625,816 2,095,027	\$ 233,513 5,760,402 81 6,599,376 1,301,159	1-69 41-45 47-49 9-37	
Tolal	20,228,988	13,971,150	100-00	22,371,924	13,894,531	100-00	

Production of Silver in Canada, by Provinces, January 1 to June 30, 1926 and 1927

	195	26	1927	
	Quantity	Value	Quantity	Value
Ontario. Sritish Columbia Sritish Columbia Yukon. Quebec Manitoba and Saskatchewan. Nova Scotia.	Fine oz. 4,542,420 5,150,853 1,248,537 166,445 5	\$ 2,993,546 3,394,515 822,811 109,091 3 333	Fine oz. 4,948,888 5,308,074 1,120,722 285,461	2,791, 5 68 3,028,023 632,177 161,023
Canada	11,108,310	7,320,599	11,723,218	6,611,83

Imports into Canada and Exports of Silver, 1925, 1926 and January 1 to June 30, 1927

	192	5	192	26	January 1 to Ju	ne 30, 1927
	Oz.	8	Os.	\$	Os.	8
Silver coin		1,025,109 210,384 01	=	1,011,015 440,079 55	-	485,587 167,520
Total	-	1,235,554	-	1,451,149		653, 107
Exports— Silver contained in ore, concentrates, etc. Silver bullion. Silver coin.	4,754,915 14,316,797	3,021,418 9,861,219 2,089	5,890,280 15,241,853	3,548,952 9,559,825	1,651,776 8,050,357	816,246 4,535,256
Total	19,071,712	12,884,726	21,132,133	13,106,777	9,702,133	5,381,500

Monthly Average Prices of Silver,* 1924, 1925, 1926 and January 1 to June 30, 1927

		New Y	ork		London					
	1924	1925	1926	1927	1924	1925	1926	1927		
January	63 - 447	68-447	67 - 795	55-795	33-549	32 - 197	31-322	25.86		
February	64 · 359 63 · 957	68 · 472 67 · 808	66 · 773 65 · 880	57-898 55-306	33 - 565	32 - 245	30-797	26.85		
April	64-139	66-899	64 - 409	56:199	33 - 483 33 - 065	31 · 935 31 · 372	30 · 299 29 · 682	25-65 26-13		
May	65.524	67 - 580	65.075	56.280	33-870	31.276	30-125	26.07		
June	66-690	69 - 106	65-481	56.769	34 - 758	31-863	30 - 248	26.20		
July	67-159	69 - 442	64-793	-	34-509	31.954	29-861	_		
August	68-519	70 - 240	62-380	- 1	34-213	32 - 268	28.773	-		
September	69 - 350	71-570	60 - 580	-	34-832	32.983	27.904	_		
Octoher	70-827	71-106	54 - 505	- 1	35.387	32-972	25 - 291	_		
November	69 - 299	69 - 223	54 - 141	-	33 - 775	32 - 155	25 - 192	_		
December	68-096	68-889	53 - 486		32 - 620	31-835	24-733	-		
Average	66-781	69-065	62 - 107	56-498	23-969	32-088	28 - 686	26 - 13		

New York quotations ceats per ounce, troy, 999 fine, foreign silver.
 London, pence per ounce, sterling silver, 925 fine.

*Shipments by Mines, and destinations of Ores, Concentrates etc., shipped over Temiskaming and Northern Ontario Railway from the Districts of Cobalt, South Lorrain and Gowganda, 1926.

Name of Mine		Destination				
Shipments from Cobalt District	7,135·37 13,341·52 387·50		2.504 34 30 98	18, 19		
Grand total	20,864-39	Grand Total		20,865		

^{*}Supplied by Arthur A. Cole, Mining Engineer, T. & N.O. Railway, Cobalt, Ont.

ZINC

Production of zinc from Canadian ores in 1926 established a new high record for this metal with a total of 149,938,105 pounds (74,969 tons) which valued at the average London price for the year of 7.41 cents per pound, was worth \$11,110,413. The 1925 output amounted to 109,268,511 pounds (54,634 tons) which valued at the average St. Louis price of 7.622 cents per pound was computed to be worth \$8,328,446.

Refined zinc is produced at Trail, B.C., from the silver-lead-zinc ores of the West Kootenay district and from the Sullivan mine at Kimberley, B.C. Zinc concentrates are exported to Belgium from the Tetreault silver-lead-zinc property in Quebec. No other provinces in Canada produced zinc in 1926 but development work on a zinc property was carried on in the Sudbury district near Chelmsford, Ontario, by the Treadwell Yukon Mining Company.

Figures for the Canadian total production of zinc are made up by adding the production of refined zinc at Trail to the amount of zinc estimated as recoverable from ores exported; the value of production is calculated at the monthly average price for zinc on the London market for the year, exchange conversion being made at par. In previous years the average price on the St. Louis market was used, but as the bulk of Canada's zinc output is exported and sold on the basis of London quotations, it was thought that a more accurate aggregate value would be obtained by using prices quoted in London, and in 1926 this change in practice was made. It may be noted that the present procedure is in conformity with the practice of the British Calumbia Department of Mines.

In order that comparative figures may be had, the table below shows the production data by provinces, both on the basis of the St. Louis prices, and also as determined from London quotations.

Zinc production during the half-year ending June 30, 1927, showed a gain of 3·2 per cent over the figures for the first half of 1926. British Columbia produced 62,262,000 pounds and Quebec yielded 7,020,179 pounds, making a total of 69,282,179 pounds for the half-year as against 67,159,570 pounds produced during the first half of 1926 and as against 149,938,105 pounds during the calendar year 1926.

Production of Zinc in Canada, 1925, 1926 and January 1 to June 30, 1927

	1812	5	19:	26	January 1 to June 30, 1927	
	Pounds	Value	Pounda	Value	Pounds	Value
(a) Calculated at the average St. Louis price for the Year (1)		\$		\$		8
QuebecOmario.	9,936,000 179,545	757.322 13.685		-	-	452,240
British Columbia	99.152,966	7,557,439	137,033,929	10.054,179	62,262,000	4.010,918
Total	109,268,511	8.328,446	149,938,105	11,000.958	69,282,179	4.463,158
(b) Calculated at the average London price for the Year (2)						
Quebec Ontario.	9,936,000 179,545	790.508 14.285	12.204.176	956, 199	7,020,179	454,430
British Columbia	99.152.966	7,888.610	137,033,929	10, 154, 214	62,262,000	4,030,344
Total	109,268,511	8,693,403	149,938,105	11.110.413	69.282.179	4,484,774

^{(1) 1925—7·622} cts. per pound, 1926—7·337 cts per pound, 1927—6·442. (2) 1925—7·956 cts. per pound, 1926—7·41 cts. per pound, 1927—6·4732.

Imports into Canada and Exports of Zinc, 1925, 1926 and January 1 to June 30, 1927

	1925	5	192	6	January 1.to Ju	une 30, 1927
	Quantity	Value	Quantity	Value	Quantity	Value
1		8		\$		8
Zinc dustLb. Zinc in blocks, pigs and	315,440	28,664	435,440	46,800	158,550	15,85
Sheets	4.322,335 1.265,510	407, 236 100, 736	5.797,282 1,122,640	582,784 86,779	2,813,779 653,130	251,39° 43,76°
Zinc white 80% zn	13,301,222	923,755	13,278,306	943,724	7,889,298	528,05
of (44% zn.)	1,070,595	47,450 178,230	1.650,725	73,604 156,637	1,023,670	43,24 117,23
Total	-	1,686,071	-	1,890,328	9-	999,54
Exports— Zinc ore, Ton Zirc spelter Lb.	48,340 49,826.000	1,778,019 3,781.011	41,917 95,008,000	1,393,165 7,107,876	4.158 50,874,100	116,373 3,254,68
Total	-	5,559,030	_	8,501,041		3,371,05

Monthly Average Prices of Zinc at Montreal, St. Louis and London, 1925, 1926 and January 1 to June 30, 1927

Month	Montreal ¹ (In cents per pound)				St. Louis:	und)	London ² (In pounds Sterling per long ton)		
	1925	1926	1927	1925	1926	1927	1925	1926	1927
January	9-22	9.80	8-18	7.738	8.304	6 · 661	37.917	38.059	30-979
February	8.93	9.31	8-17	7-480	7 - 759	6.673	36 - 528	36.053	29.931
March	8.75	8.82	8-16	7.319	7-332	6-692	35.741	34-090	30.649
April	8-44	8-49	7 - 80	6.985	7-001	6-338	34 - 644	32-503	29.579
Миу.,	8-40	8.31	7.53	6.951	6-821	6-075	34-223	32.038	29-034
June	8.45	8.58	7.68	6.990	7.112	6.213	34 - 149	33 - 244	28 - 598
July	8.65	8-87		7-206	7-411		34.894	34.045	
August	9.01	8-85		7-576	7.376		36-691	34 - 173	
September	9-18	8-89	34.5	7.753	7.413		37-435	34-389	
October	9-71	8.76	= .	8-282	7 - 296		39-884	34-256	-
November	10-10	8.70		8-614	7 - 199		39.039	33-491	,
December	9-91	8.51		8-565	* 7.018	4	38-327	32-915	
Average	9.06	8.83	7-92	2 - 623	7 - 337	6-412	36-624	34 · 105	29-795

Supplied by Consolidated Mining and Smelting Co., Montreal, P.Q.

NON-METALLICS

Abrasives

Diatomite.-Development work was carried on during 1926 in Canada in connection with a diatomite deposit at East New Annan, N.S., but no shipments were made. The Canadian production of this material was derived in previous years from a deposit located at Silica Lake, Colchester County, Nova Scotia.

Diatomite, sometimes called tripolite, is a silicious material closely related to quartz and is used for heat and sound insulation, as an absorbent, a filtering medium, a filler, a mild abrasive, a structural material, etc. The Canadian material is usually given a preliminary calcine in rotary furnaces, before shipment.

There were no shipments of diatomite during the six months ending June 30, 1927, however, development work has advanced to a point where shipments may be looked forward to during the latter part of the year.

Grinding Pebbles.—Grinding pebbles are obtained in Canada from a deposit near Jackfish, Ontario. Shipments during 1926 amounted to 64 tons valued at \$576 as compared with a total of 105 tons at \$945 shipped in the previous year.

No grinding pebbles were shipped during the first half of 1927.

Grindstones, Pulpstones and Scythestones.-The production of grindstones, pulpstones, and scythestones in Canada during 1926 reached a total of 2,695 tons worth \$151,227. In 1925 shipments were reported at 2,562 tons with a value of \$124,165.

²¹ rom the Engineering and Mining Journal.

Converted at par, the average London quotations in cents per pound were: In 1925=7-956 cents; in 1926=7-410 cents; and during first 6 months of 1927 were 6-473 cents.

Owing to the seasonal character of the work in connection with the production of grindstones, pulpstones and scythestones in Canada, no data were collected for this industry during the first six months of the current year.

Volcanic Dust.—The deposit of volcanic dust near Waldeck, Saskatchewan was operated in 1926 and the shipments made during the year were reported at 90 tons worth \$630. A total of 160 tons valued at \$1,380 was shipped from this deposit during 1925. This material is used as a base in the manufacture of cleansers.

The production of volcanic dust during the first six months of 1927 amounted to 230 tons valued at \$1,610.

Imports into Canada and Exports of Abrasives, 1925, 1926 and January 1 to June 30, 1927

	16	25	19	26	January 1	to June 30,
	Quantity	Value	Quantity	Value	Quantity	Value
Imports-		8		8		\$
Abrasives—						
Artificial abrasives in bulk, crushed or ground, when imported for use in the manufacture of abrasive						
wheels and polishing composition. Carborandum wheels or stones not further manufac-	-	123,651	-	230,933	-	126,905
tured than moulded and burned Diamond dust or bort, and black diamonds for borers.	-	000 405	-	158,468		68,619
Emery in bulk, crushed or ground.	_	694,405 223,598		963,141 53,384		595,948 26,348
Emery wheels and carborundum wheels, n.o.p Emery or carborundum, manufactures of, including	-	198,432		77,331		35,338
carborundum stones, n.o.p	60.	59,775	_	67.710	-	45,041
in diameter	_	641,369 19,983		791,412 36,838		292,544 41,243
Pumice and pumice stone, lava and calcareous tufa, not further manufactured than ground Sand paper, glass, flint and emery maner or emery	-	27,581	-	32,005	_	16,725
cioth.		305,042	_	344,987	_	191.091
Iron sand or globules for polishing and sawing Burrstones in blocks, rough or unumnufactured, not bound up or prepared for hinding into mill-	-	11,702	-	17.464	-	4,162
stonesNo.	5	584	3	450		-
Total		2,306,122	-	2,774,123	-	1,443,964
Exponts-						
Grindstones, manufactured. Stone for the manufacture of grindstones	93	61,429 794	-	75,374	-	18,181
Nutural, n.o.p	955, 184	2,978,639 32,030	1,055,592	860 2,908,320 45,802	503,994	4,110 1,299,160 16,053
Total	-	3,073,356	-	3,030,356	-	1,337,504

Actinolite

Shipments of actinolite to the United States from Canadian deposits during 1926 were recorded at 80 tons valued at \$1,000, as against 40 tons at \$500 shipped in the previous year.

Actinolite, which is a calcium-magnesium-iron silicate, is used in the manufacture of coal-tar roofing compounds. The Canadian production has been derived from deposits located in Elzevir and Kaladar townships, in Hastings and Addington counties, Ontario, the centre of the industry being at Actinolite.

There were no shipments of actinolite during the first half of 1927; in the same period of 1926 the production was 30 tons valued at \$375.

Asbestos

Asbestos production in Canada during 1926 reached the grand total of 279,403 tons with a valuation of \$10,099,423; an average value of \$36.15 per ton. In 1925, the shipments (exclusive of sand and gravel) amounted to 273,524 tons at \$8,977,546, or an average value of \$32.82 per ton.

Asbestos rock mined during 1926 totalled 4,483,375 tons, of which quantity 4,002,626 tons were handled by the mills.

Production of asbestos in South Africa and Cyprus increased in 1926; the former country shipping 14,096 tons and the latter 6,941 tons. The Rhodesian output declined from 34,349 tons in 1925 to 33,344 tons in 1926. Mine operators in the United States shipped 1,358 tons during the year under review.

Canada's deposits of asbestos continue to supply by far the greater part of the world's needs of this very important mineral. Situated in the province of Quebec, about equally distant from the cities of Montreal and Quebec, the asbestos mines provide the principal industry in an area represented by five towns which have grown up about the mines. Mining or quarrying is done mostly in large pits. Veins of chrysotile asbestos run in every direction through the rock and hand-cobbing is used to sort out the larger samples. Mechanical crushing, drying and screening are used extensively in the further treatment. Some 50 to 75 tons of asbestos are commonly obtained in the handling of 1,000 tons of rock.

Shipments of asbestos from Canadian mines during the first half of 1927 totalled 123,730 tons valued at \$4,685,706, as against 126,287 tons at \$4,508,143 produced in the first six months of 1926. Asbestos rock mined during the period was 2,181,353 tons, of which quantity 1,673,508 tons was milled while the total mill output was 123,912 tons.

Output and Shipments of Canadian Asbestos, 1925 and 1926

		t	925			1926				
		S	old or shippe	d		S	old or shippe	d		
Classification	Total output	Quantity	Total sales value at mill	Average value per ton	Total output	Quantity	Total sales value at mill	Average value per ton		
	Tons	Tons	\$	\$ cts.	Tons	Tons	\$	\$ cts.		
Crude No. 1 Crude No. 2 Other crudes Spinning stocks Shingle stocks Mill board and paper stocks Fillers, floats and other short fibres.	806 2,701 260 13,509 25,301 94,350	1.046 3.777 348 16.070 30.010 93,035	381,926 778,895 49,030 1,710,379 1,523,980 2,915,046 1,618,290	365 13 206 22 140 90 106 43 50 78 31 03	842 2,952 328 13,839 34,678 101,293	1,108 3,494 446 15,182 36,497 86,746	410,373 802,304 92,394 1,885,835 2,139,780 2,940,675	370 37 229 02 207 16 124 21 58 62 33 89		
Total	265,309	273,524	8,977,546	32 82	300,204	279,403	10,099,423	36 15		
Sand and gravel*	16,409	16,865	10.814	0 64	15,672	15,672	10,257	0 65		
Grand Total	281,718	290,389	8,988,360	30 95	315,876	295,075	10,109,680	-		

^{*}In 1926, this production has been included under the "Sand and Gravel Industry."

Output and Shipments of Asbestos in Canada, January 1 to June 30, 1926 and 1927

		1	926			1	927	
C11 2.7		S	old or shippe	d	PH.	S	old or shippe	d
Classification	Total output	Quantity	Total sales value at mill	Average value per ton	Total output	Quantity	Total sales value at mill	Average value per ton
	Tons	Tons	\$	\$	Tons	Tons	- 8	. \$
Crude No. 1	489 1,556 156 7,849 36,531 55,265 45,196	621 1,810 80 6,994 38,456 40,923 37,403	232, 193 344, 511 15, 303 812, 464 1, 265, 399 1, 384, 345 453, 928	373-90 190-33 191-28 116-17 32-90 33-83 12-14	301 1,513 169 5,289 20,354 35,388 60,898	534 1,450 472 6,469 17,712 30,577 66,518	204,430 333,238 99,621 833,611 1,138,424 1,111,973 964,409	382-83 229-82 211-86 128-86 64-27 36-37 14-50
Total	147.042 6,457	126,287 6,357	4,508,143 4,076	35·70 0·64	123,912 8,196	123,730 8,196	4,685,706 5,428	37 · 87 0 · 66
Grand total	153, 499	132,644	4,512,219	- 1	132,108	131,926	4,691,134	-

Imports into Canada and Exports of Asbestos, 1925, 1926 and January 1 to June 30, 1927

<u> </u>	1925		19:	26	January 1 to	June 30, 1927
IMPORTS—	Tons	\$	Tons	\$	Tons	\$
Asbestos in any form other than crude, and all manufactures of, n.o.p Asbestos packing	111	350,600 98,169	93	472,513 93,122		286,942 61,285
Total	**	448,769	-	545,635		348,227
Exports— Asbestos. Asbestos sand and waste Asbestos manufactures, including asbestos roofing.	136, 75 0 121,267	8,090,106 1,592,286 55,572	141,760 136,231	8,669,810 1,992,480 43,011		3,936,497 886,454 40,460
Total	-	9,737,964	-	10,705,301	_	4,863,411

Monthly Average Prices of Asbestos by Grades, 1926 and 1927

(Per short ton)
(From the Engineering and Mining Journal)

Month	Crude No. 1	Crude No. 2	Spin- ning fibres	Magnesia and compressed sheet fibres	Shingle stock	Paper stock	Cement	Short	Floats
1926	8	\$	8	2	8	2	8	S	2
January	500	300	190	125	73	42	25	15	15
February	525	313	183	137	70	43	25	15	15
March	525	300	190	137	70	43	25	15	15
April	525	300	190	137	70	43	25	1.5	15
May	525	300	190	137	70	43	25	15	1.5
June	525	300	190	137	70	43	25	15	1.5
July	525	300	190	137	70	43	25	15	15
August	525	300	190	137	70	43	25	15	15
September	525	300	190	137	70	43	25	15	15
Uctoper	525	300	190	137	70	43	25	15	15
November	525	300	190	137	70	43	25	15	15
December	525	300	190	137	80	43	25	15	15
Average	523	301	190	136	71	43	2.5	15	1.5
1927									
January	525	300	190	137	80	43	25	15	1.5
February.	525	325	200	137	80	43	25	15	1.5
March	525	325	200	137	80	43	25	15	15
April	525	325	200	145	75	43	25	15	15
May	525	325	200	145	75	43	25	15	15
June	525	325	200	145	75	43	25	15	15
Average	525	321	198	141	77	43	2.5	15	15

Barytes

Barytes shipped during 1926 amounted to 100 tons valued at \$2,307 as compared with 95 tons worth \$2,259 produced in 1925. As in previous years the total output was obtained from the deposit at Lake Ainslie, Inverness county, Nova Scotia.

Imports of barytes during the year were recorded at 2.422 tons evaluated at \$48,011; in the corresponding period of 1925 importations totalled 2,433 tons appraised at \$50,566.

Barytes shipped during the first six mombs of 1927 amounted to 35 tons, with a valuation of \$771, as against 44 tons at \$824 shipped during the first half of 1926. Imports of barytes during the half year were recorded at 1,220 tons, valued at \$25,515, while in the corresponding period of the preceding year 1,003 tons worth \$19,870 were brought into Canada.

Bituminous Sands

Production of bituminous sands from the Fort McMurray district of the province of Alberta amounted to 528 tons, valued at \$2,112 in 1926. Shipments during the preceding year totalled 1,148 tons worth \$4,594. These shipments were made by the McMurray Asphaltum and Oil Limited, and the Federal Department of Mines. Operations in the bituminous sands industry are as yet only in the experimental stage, and considerable research work in regard thereto is being carried on by the Scientific and Industrial Research Council of Alberta, and the Dominion Department of Mines.

Shipments of bituminous sands during the first half of 1927 were reported at 291 tons worth \$1,164.

Imports of Asphalt into Canada, 1925, 1926 and January 1 to June 30, 1927

	192	25	192	6	January 1 to June 30, 1927		
	Tons	Value	Tons	Value	Tons	Value	
		8		\$		\$	
Asphalt, solid	12,583	292.218 13.288 12.147	19,663	404,848 17,510 21,998	_	298,823 12,933 7,370	
Total	-	317,653	_	414,356		319,12	

Coal

Probably no subject presents a problem of greater general public interest in Canada just now, than the topic of fuel supply. Two main causes have brought about this effect; limitation of supplies from other countries, and a growing national appreciation of the value and extent of Canada's own coal resources. Repeated shortages of coal supplies caused a widespread popular demand for the adoption of measures to prevent the recurrence of such situations. As a result, steps were taken to promote the by-product coking of Canadian coal to meet the need for domestic fuel; investigations were undertaken looking to the preparation of western lignites in such form as would permit their shipment for considerable distances; oil-burning equipment suitable for household heating made its appearance on the Canadian market; and, as a result of the educational program regarding household fuels, there arose a demand for a more extensive use of Canadian coals by railways and industrial concerns.

Canada's coal output in 1926 advanced to 16,478,131 tons valued at \$59,875,094 an increase of 3,343,163 tons in quantity and \$10,613,143 in value over the totals of 13,134,968 tons with a valuation of \$49,261,951 for the preceding year.

Nova Scotia mines produced 6,747,477 tons of coal in 1926 which was a greater tonnage from these mines than in any previous year with the exception of 1916 when the output amounted to 6,912,140 tons. These figures furnish a marked contrast to the output of 3,842,978 tons in 1925 but in that year a strike extending over about four months very materially reduced the output.

New Brunswick's coal mines produced 173,111 tons in the year marking a slight recession from the 208,012 tons produced in 1925.

Bituminous coal only is produced in Nova Scotia and New Brunswick. Employment in the coal mines of the maritime provinces was comparatively steady throughout the year, with a slightly upward trend.

In the western field the province of Alberta is the greatest producer and in 1926 the mines of this province yielded 6,503,705 tons of coal including 3.15 million tons of lignite, 2.86 million tons of bituminous coal and 0.49 million tons of sub-bituminous.

Saskatchewan produced 439,803 tons of lignite. In the prairie provinces there is a seasonal decline in the production of coal during the summer months when many of the small mines are shut down so that their owners may engage in the more profitable industry of growing wheat.

British Columbia, mining bituminous coal only, produced about a quarter of a million tons per month, and in 1926 showed an output of 2,613,719 tons. A large part of British Columbia's coal output goes to export trade, and the balance is used within the province, very considerable quantities being consumed in the metallurgical works and other industrial enterprises.

Canada drew its supply of imported coal in 1926 largely from the United States but also imported 364,036 tons from other countries, including 276,113 tons from Great Britain and the balance, in almost equal amounts, from Germany and the Netherlands, together with a small quantity from Japan. The figures for the imports of coal mined in countries other than the United States may even be slightly higher than those quoted because during the year some European coal imported to United States points, and there warehoused for distribution, eventually found its way into Canada, but in a case like this the Custom's records only show the country of immediate origin so that coal thus imported would be credited to the United States.

Development of the coal trade between Canada and Great Britain had its inception during the strike at the anthracite mines in the United States, but the long drawn out strike in British coal mines in 1926 was a retarding factor in this newly developed trade. During the past five years, however, Canada has imported from Great Britain a total of 2.54 million tons of coal, including 1.54 million tons of anthracite and 1 million tons of bituminous coal.

A new feature of Canada's import trade in coal was the receipt of shipments from Germany and the Netherlands. This was nearly all classed as anthracite although it included some briquetted coal.

Exports of Canadian coal were about equally divided between the eastern and western coal fields. In all 1,028,200 tons were shipped to points outside the Dominion. Canada's chief customers are Newfoundland and the United Kingdom, Alaska, points in the United States, the Philippines, and Australia. Smaller quantities are exported each year to a great many other places.

Interest in the production of by-product coke as a domestic fuel has been cultivated in Canada as a part of the educational program inagurated when a shortage of imported coal supplies became acute. Much more coke has been used for domestic heating during the past year than previously, and as the people became accustomed to burning this fuel many developed a preference for it.

Production of coal in Canada during the first six months of 1927 was 8,424,631 short tons valued at \$29,695,818, which was 20·6 per cent more in quantity and 17·3 per cent more in value than the output for the corresponding period of 1926 of 6,895,813 short tons valued at \$25,312,598. Increases in output were recorded in all the coal-producing provinces during the first half of 1927. By classes the Canadian production included: Bituminous coal, 6,664,060 short tons valued at \$24,961,692; sub-bituminous, 329,476 short tons at \$886,568, and lignite, 1,431,095 short tons worth \$3,847,558.

During the period 598,683 short tons were exported, which was 255,411 short tons higher than the quantity exported during the same months in 1926.

Imports stood higher at 9,578,679 short tons, of which 1,769,233 short tons were anthracite, 7,804,776 short tons bituminous, and 4,670 short tons lignite. The import figures for 1926 were: anthracite, 1,634,553 short tons; bituminous, 5,581,968 short tons, and lignite, 5,403 short tons; making a total of 7,221,924 short tons.

From January to June, inclusive, 1927, the amount of coal made available for consumption was 17,404,627 short tons, which was about 3.6 million tons higher than the amount available in the same months in the preceding year.

In January, 1927, more than 30,000 men were employed in Canada's coal mines—about 14,000 in the East and the balance in the West. This number gradually decreased till in June, there were 25,700 employees on the pay-rolls.

Output and Value of Coal in Canada by Kinds and by Provinces, 1925, 1926 and January 1 to June 30, 1927

(Short tons)

19	25	19	26	January 1 to June 30, 1927	
Quantity	Value	Quantity	Value	Quantity	Value
	\$		8		
. 3,842,978	15,826,680	6.747,477	26,845,226	3,572,122	13,335,611
. 208,012	815,367	173,111	710.245	110,510	486,600
471,965	870.875	439,803	819.805	195.398	349,869
. 570,654	8,423,909 1,731,267 9,866,308	2,858,456 489,736 3,155,513	9,984,386 1,458,116 9,443,601	1,605.378 329,476 1,235.697	5,597,807 886,568 3,497,689
5,869.031	20,021,484	6,503,705	20,886,103	3,170,551	9,982,064
. 2,742,252	11,720,373	2,613,719	10.612.915	1,376.050	5.541.674
. 730	7,172	316	800	_	-ADI
570,654 3,624,707	36,793,501 1,731,267 10,737,183	12,393,079 489,736 3,595,316	48, 153, 572 1, 458, 116 10, 263, 406	6,664,060 329,476 1,431,095	24,961,692 886,568 3,847,558 29,635,818
	. 3,842,978 . 208,012 471,965 . 2,145,635 570,654 3,152,742 . 5,869,031 . 2,742,252 . 730 . 8,939,607 . 570,654	\$ 3,842,978 15,826,680 208,012 815,367 471,965 870,875 2,145,635 8,423,909 5,70,654 1,731,267 3,152,742 9,866,308 5,869,031 20,021,484 2,742,252 11,720,373 730 7,172 8,939,607 36,793,501 5,70,654 1,731,267 3,624,707 10,737,183	\$ 3,842,978 15,826,680 6.747,477 208,012 815,367 173,111 471,965 870,875 439,803 2,145,635 1,731,207 489,736 3,152,742 9,866,308 3,155,513 5,869,031 20,021,484 6,503,705 2,742,252 11,720,373 2,613,719 730 7,172 316 8,939,607 36,703,501 12,393,079 570,054 1,731,267 489,736 3,624,707 10,737,183 3,595,316	\$ 8 . 3,842,978 15,826,680 6.747,477 26,845,226 208,012 815,367 173,111 710.245 . 471,965 870,875 439,803 819,805 . 2,145,635 8,423,909 2,858,456 9,984,386 570,654 1,731,267 489,736 1,458,116 3,152,742 9,866,308 3,155,513 9,443,601 . 5,869,031 20,021,484 6,503,705 20,886,103 2,742,252 11,720,373 2,613,719 10,612,915 . 730 7,172 316 800 . 8,939,607 36,703,501 12,393,079 48,153,572 570,054 1,731,267 489,736 1,458,116 3,624,707 10,737,183 3,595,316 10,263,406	Quantity Value Quantity Value Quantity 3,842,978 15,826,680 6,747,477 26,845,226 3,572,122 208,012 815,367 173,111 710,245 110,510 471,965 870,875 439,803 819,805 195,398 2,145,635 8,423,909 2,858,456 9,984,386 1,605,378 570,654 1,731,267 489,736 1,458,116 329,476 3,152,742 9,866,308 3,155,513 9,443,601 1,235,697 5,869,031 20,021,484 6,503,705 20,886,103 3,170,551 2,742,252 11,720,373 2,613,719 10,612,915 1,376,050 7,172 316 800 - 8,939,607 36,793,501 12,393,079 48,153,572 6,664,060 570,654 1,731,267 489,736 1,458,116 329,476 3,624,707 10,737,183 3,595,316 10,263,406 1,431,095

Shipments of Coal from Canadian Mines by Grades and Destinations, 1925 and 1926

(Short tons)

Destination		19:	25			192	6	
Destination	Run-of- mine	Screened	Slack	Total	Run-of- mine	Screened	Slack	Total
Prince Edward Island Nova Scotia New Brunswick Juelee Ontario Manitola Askatchewan Alberta British Columbia	4, 921 435, 378 238, 132 68, 937 765 142, 724 218, 545 260, 181 122, 476	51,310 466,148 197,807 369,408 31,285 515,274 1,185,712 873,849 657,085 335	633 381,490 73,854 373,410 743 86,571 116,921 309,289 247,064 302	56,864 1,282,006 509,793 811,764 32,793 744,569 1,521,178 1,443,319 1,027,225 637	8,744 320,123 294,068 43,951 68 163,482 200,890 259,829 77,516	74, 888 582, 864 207, 457 1,119,591 60,737 451,619 9:0,496 503,699 545,741 156	3,598 789,546 124,609 805,004 16,484 185,954 353,131 530,702 305,188	87, 23 1, 692, 53 626, 13 1, 968, 51 77, 28 891, 03 1, 514, 42 1, 297, 22 928, 45
Total domestic shipments.	1,492,059	4,347,213	1,590,876	7,430,148	1,368,671	4,510,154	3.114,216	8,993,04
Railroads Ships' bunker	2,969,508 161,711	360,054 260,457	133,632 7,191	3,463,194 429,362	3,769,089 455,278	392,136 268,066	270.+32 4,336	4,431,85 727,68
Total railroads and ships' bunkers	3,131,219	620,511	140,826	3,892,556	4,224,367	660,202	274,968	5,159,53
United States Newfoundland. West Indies Europe United Kingdom and Irish Free State Other places	41,332 29,384 - 1,463	165,285 148,143	33,362 9,831 -	239,979 187,361 -	15.874 21.420 6.736 10,687 139,085 7,733	126,052 237,514 2,779 11,829 3,864	55.583 10.075	197,30 269,00 6,75 13,46 150,91 41,59
Total external shipments.	72,179	316,680	43,196	432,035	201,535	386,803	65,658	653,99
Total	4,695,457		1,774,898	11,751,739			3,454,842	14,806,52

Exports of Canadian Coal by Provinces, 1925, 1926 and January 1 to June 30, 1927

(Short tons)

Province	1925	1926	January I to June 30, 1927
Nova Scotia	240,539 25,502	559,546 24,929	265, 493 50, 623
Ontario	11	675 600	51
Manitoba Saskatchewan Albertu	3.971 7,418 926	4,652 6,096 631	1, 491 2, 116
British Columbia	507,543	431,071	278,727
Total	785,910	1,028,200	598, 682

Coal Made Available for Consumption in Canada, 1925 and 1926

(Short tons)

		192	5		1925				
Month	Output	Imports	Exports	Coal made available for use	Output	Imports	Exports	Coal made available for use	
January February March April May June July August September October November December	1, 492, 160 1, 140, 759 787, 877 557, 225 669, 841 737, 767 748, 359 997, 710 1, 196, 487 1, 572, 295 1, 664, 674 1, 560, 814	1,166,782 1,024,896 1,023,405 677,894 1,237,755 1,470,416 1,788,502 2,177,270 1,872,417 1,658,501 1,387,373 1,347,224	85,410 41,691 68,226 18,347 37,894 43,296 38,634 59,080 93,955 99,846 82,946 116,585	2,873,832 2,132,964 1,743,056 1,216,772 1,869,702 2,164,887 2,498,227 2,498,227 3,115,900 2,974,949 3,130,950 2,969,101 2,791,453	1,230,878 1,076,457 1,070,824 995,822 1,136,675 1,393,187 1,350,339 1,340,816 1,413,721 1,711,772 1,834,267 1,923,582	968,475 825,503 1,345,657 858,052 1,337,206 1,887,031 1,616,101 1,811,484 1,837,420 1,756,031 1,924,449	65,017 35,517 62,695 27,166 57,412 95,336 59,610 98,512 79,527 119,036 126,681 200,753	2,134,30 1,866,44 2,353,78 1,826,50 2,416,41 3,184,88 3,179,44 2,858,40 3,145,67 3,403,61 3,403,61 3,403,61	
Total	13,124,968	16,832,435	785,910	29,181,493	16,478,131	18,056,139	1,028,200	33,516,07	

Coal Made Available for Consumption in Canada, January 1 to June 30, 1926 and 1927 (Short tons)

		193	26	1927					
Month	Month Output Imports		Exports Coal made available for use		Output Imports		Exports	Coal made available for use	
January	1,230,878	968, 475	65.047	2,134,306	1,570,235	1,460.659	223,772	2,807,122	
February	1,076,457	825,503	35,517	1,866,443	1,383,042	1.307.588	88,893	2,602,637	
March	1.070.824	1,345,657	62,695	2,353,786	1,407,448	1,609,410	110,905	2,905,953	
Aprîl	995,622	858,025	27.165	1,826,509	1,314,562	1,120,086	25,220	2,409,428	
May	1,136,675	1,337,206	57,412	2,416,469	1,305,359	1.719.425	84,755	2,940,029	
June	1.393,187	1,887,031	95,336	3, 184, 882	1.443.085	2,361,511	65,138	3,739,458	
Total	6,903,643	7,221,924	343,172	13,782,395	8,424,631	9,578,679	598,683	17, 404,627	

Summary Statistics for 1926—Output, Exports, Interprovincial Shipments, Imports and Coal made Available for Consumption in Canada, by Provinces

(Short tons)

		0 1						
		Canadia			Imported	Imported	Imported	Coal
Province	Output	Received from other provinces	Shipped to other provinces	Exported	from U.S.A.	from Great Britain	Germany except as noted	for con- sumption
Prince Edward— Island— Anthracite Bituminous	900	87,230		-	5,344 1,622		der 0	5,344 88,852
Total	_	87,230	_		6,966	-		94,196
Nova Scotta— Anthracite Bituminous Lignite	6,747,477	-	2,536,796	559,546	39,194 23,921	11,523	2,240 (a) 100	52,957 3,675,156
Total	6,747,477		2,536,796	559,546	63,115	11,523	2,340	3,728,113
New Brunswick— Anthracite Bituminous	173,111	483,995	2,754	24,929	61,704 97,548	35, 197 110		96,901 727,081
Total	173,111	483,995	2,754	24,929	159,252	35,307	_	823,982
QUEBEC— Anthracite. Bituminous. Lignite.		1,968,325	-	675	1,253,246 1,793,990	207,869 3,065	(b) 83,475	1,544,590 3,764,705 221
Total		1,968,546	-	675	3,047,236	210,934	83,475	5,309,516
CENTRAL ONTARIO— Anthracite. Bituminous. Sub-bituminous. Lignite.		*4,725 *72,564	-	600	2,444,280 10,531,095	12,589	(e) 1,805	2,458,674 10,530,495 4,725 72,564
Total	-	77,289	-	600	12,975,375	12,589	1.805	13,068.458
Mantfora and Head of Lakes— Anthracite Bituminous Sub-bituminous Lignite	-	69,348 68,409 663,298	-	4,652	78,800 1,314,387	-	-	78,800 1,379,083 68,409 663,298
Total	-	801,035	-	4,652	1,393,187	-		2,189,590
Saskatchewan— Anthrueite. Bituminous. Sub-bituminous. Lignite.	439,803	110,253 54,515 1,174,610	204,728	6,096	464 1,887	1 1 1		464 106,044 54,515 1,409,685
Total	439,803	1,339,378	204,728	6,096	2,351	-	_	1,570,708
Alberta— Anthracite Bituminous Sub-bituminous Lignite	2,858,456 489,736 3,155,513	28, 145	164,168 149,496 1,778,014	631	1,515	-	-	2,723,317 340,250 1,377,499
Total	6,503,705	28,145	2,091,668	631	1,515	-	-	4,441,066
British Columbia— Anthracite Bituminous Sub-bituminous Lignite	2,613,719	34,920 21,837 72,049	78,498	431,071	210 31,960 10,926	4,992 729 39	(d) 303	5,202 2,172,062 21,837 83,014
Total	2.613,719	128,806	78,498	431,071	43,096	5,760	303	2,282,115
YUKON- Bituminous	316			_	10			326
Total	316			_	10	-	*	326
CANADA— Anthracite Bituminous Sub-bituminous Lignite	12,393,079 489,736 3,595,316	2,782,216 149,486 1,982,742	2,782,216 149,486 1,982,742	1,028,200	3,883,242 13,787,935 10,926	272,170 3,904 - 39	87,520 403	4,242,932 25,167,121 489,736 3,606,281
Tntal	16,478,136		4,914,444	1,028,200	17,692,103	276,113	(e) 87,923	33,596,070

⁽a) Imported from the Netherlands. (b) Includes 37,755 tons imported from the Netherlands. (c) Includes 47 tons imported from the Netherlands. (d) Imported from Japan. (e) Includes 37,902 tons imported from the Netherlands, also 303 tons from Japan. *Includes all coal shipped to any point in Ontario from western mines.

Imports of Anthracite, Bituminous and Lignite Coal into Canada by Countries, 1925 and 1926

(Short tons)

	Five year average for		1925			1	926	
	the month 1921-1925	United States	Great Britain	Total	United States	Great Britain	Germany	Total
Anthracite—								
January	339, 125	331,900	24,272	356,172	9,582	65,848	-	75,430
February	320,811	335,130	5,665	340.795	6,014	17,840	5,711	29,565
March	395,095	313,626	4,841	318,467	312,004	48,263	17,689	377,956
April	250,839	184,909	330	185,230	267,099	12,466	47	279,612
May	333,516	366,957	59,939	426,896	357,069	78,376	=	435,445
June	366,046	347,596	59,935	407,521	393.129 482.374	43,416 985		438,545 483,359
July	398,263 377,752	450,262 544,426	108,611 78,103	558,873 622,529	404,257	989		404,257
August	272,673	268,502	44,665	313, 167	421,885	4,976	9,400	436,261
September	331,286	62,633	89,627	152,260	455,353	4,010	23,005	478.358
November,	342,270	30,477	26,950	57,427	400,240	-	19,748	419,988
December	354,633	13,089	46,309	59,398	374,236	-	11,920	386,156
Total	4,982,309	3,249,497	549,247	3,798,744	3,883,242	272,170	(a) 87,520	4,242,932
BITUMINOUS-								
January	975,881	806,983	-	806,983	890.345	1.111		891,456
February	848,762	681,918	_	681.918	794,806	-	***	794,806
March	1,051,815	703,003	-	703,003	968.461	-	- 0	966,461
April	572,732	491,704	-	491,704	578,188	eta .	es.	578.188
May	848,002	809,926		809,926	899, 162	1,862	-	901,024
June	1,217,797	1,057,083	5,002	1,062,085	1,449,405	628	000	1,450,033
July	1,250,039	1,222,330	7,002	1,229,332	1,404,671	303	303	1,405,277
August	1,384,973	1,544,638	9,314	1,553,952	1,211,539	-	_	1,211,539
September	1,330,706	1,538,483	19,150 6,123	1,557,633	1,374,554	-	100	1,357,338
October November	1,519,636	1,320,093	8,059	1,328,152	1,335,091		100	1,335,091
December	1,241,317	1,283,163	2,908	1,286,071	1,536,475		-	1.536.475
Total	13,659,560	12,957,765	(b) 57,558	13,015,323	13,797,935	3,904	(c) 403	13,802,242
LIGNITE-		0.000		0.000				# 800
Innuary		3,627	-	3,627	1,589	-	-	1,589
February	-	2,183	-	2,183	1,132	-		1,132 1,240
March	-	1,935		1,935	1,240 252	*	_	252
April	-	933	-	933	737		_	737
June		810	_	810	453		-0	453
July	-	297	_	297	94	_	-	94
August	-	789	-	789	305	-	-	305
September	-	1,617		1,617	669	_		669
October	-	1,677	-	1,677	1,685	39	-	1,724
November	-01	1,794	-	1,794	952	-		952
December	-	1,755	-	1,755	1,818	-	the .	1,818

⁽a) Includes 37,802 tons imported from the Netherlands.(b) Includes 736 tons imported from Iapan.

⁽e) Includes 100 tons imported from the Netherlands, also 303 tons imported from Japan.

Imports of Anthracite, Bituminous and Lignite Coal into Canada from the United States and Great Britain, January 1 to June 30, 1927

(Short tons)

	Anthracite		F	Bituminous			Lignite		
	United States	Great Britain	Total	United States	Great Britain	Total	United States	Great Britain	Total
January	234,631	7,696	242,327	1,217,201	9	1,217,201	1,131	- 3	1,13
February March	216,149 182,542	18,730 10,928	234,879 193,470	1,071,517	4	1,071,517	1, 102	- 8	1,12
April May Lune	174,615 279,285 402,312	7,521 96,545 138,279	182,136 375,830 540,581	937,631 1,318,849 1,799,437	24, 489 20, 809	937,656 1,343,338 1,820,246	294 257 674	-	29 25 67
Total	1,489,534			7,759,453		7.804.776	4,670		4,67

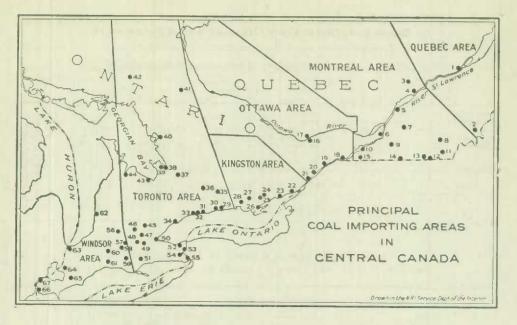
^{*}Includes 127 tons of coal imported from Japan in June.

Imports of Coal into Central Canada by Principal Areas, 1926

		Anthracite		Bituminous			
Area	(1) 12 months ending Dec. 31, 1926	(2) Five year average 1921-25	(3) Per cent of (1) to (2)	(4) 12 months ending Dec. 31, 1926	(5) Five year average 1921-25	(6) Per cent of (4) to (5)	
Quebec	93,602 1,403,242 330,738 113,560 1,699,476 313,836	90,534 1,248,663 275,287 109,980 1,749,503 315,296	103 112 120 103 97	128,725 1,553,867 809,877 232,841 5,032,273 3,376,948	237,837 2,088,7t2 702,130 192,751 4,841,195 2,562,186	5 7 11. 12. 10	
Total	3,954,454	3,788,263	194	11,134,531	10,627,841	10	

Imports of Coal Into Central Canada by Principal Areas, January 1 to June 30, 1927

		Anthracite		Bitaminous			
Areas	6 months ending June 30, 1927	(2) Five-year average for period 1922-21	(3) Per cent of (1) to (2)	6 months ending June 30, 1927	(5) Five-year average for period 1922-23	(6) Per cent of (4) to (5)	
Quebec Montreal Ottawa Kingston Toronto Windsor	26,510 617,631 101,806 38,858 741,815 117,895	29, 618 553, 199 123, 240 41, 374 893, 077 159, 057	90 111 83 94 83 74	42,630 723,876 671,207 75,517 2,893,516 1,750,618	48,604 804,462 379,998 80,052 2,280,947 1,198,315	8 9 17 9 12	
Total	1,644,525	1,804,564	91	6, 157, 364	4,792,378	12	



Key to the Ports of Entry Shown on the Map

QUEREC AREA— 1 Quebec City 2 Megantic MONTHEAL AREA— 3 Shawinigan Falls 4 Three Rivers 5 Sorel 6 Montreal 7 St. llyncinthe 8 Sherbrooke 9 St. John's 10 Valleyfield 1 Coaticook 12 Beebe Junction 13 Mannonville 14 St. Armand 15 Athelstan	Ottawa Area— 16 Ottawa 17 Hull 18 Cornwall 19 Morrisburg 20 Prescott 21 Brockville Kingston Area— 22 Gananoque 23 Kingston 24 Napanee 25 Deseronto 26 Picton 27 Belleville 28 Trenton Toronto Area— 29 Cobourg 30 Port Hope 31 Bowmanville	TORONTO AREA—Con. 32 Oshawa 33 Whitby 34 Toronto 35 Peterboro 16 Lindsay 37 Orilia 38 Port McNicoll 39 Midland 40 Parry Sound 41 North Bay 42 Sudbury 43 Collingwood 44 Owen Sound 45 Guelph 46 Kitchener 47 Galt 48 Paris 49 Brantlord 50 Hamilton	Toronto Arra—Con. 51 Simcoe 52 St. Catharinea 53 Ningara Falls 54 Welland 55 Bridgeburg Windbor Arra— 56 Stratford 57 Woodstock 58 Ingersoil 59 Tillsonburg 60 London 61 St. Thomas 62 Goderich 63 Sarnia 64 Wallacoburg 65 Chathum 66 Amherstburg 67 Windsor
		CORC	

The output of coke in Canada during 1926 totalled 2,027,058 tons as compared with 1,546,739 tons in 1925. Disposition of coke by the producing plants showed that during the year 225,424 tons were used in the coke plants, 967,747 tons were delivered to associated metallurgical works and the balance, 833,887 tons, was sold chiefly for domestic and foundry uses. Imports of coke into Canada during the year totalled 988,034 tons and represented an increase of 16 per cent over the total of 852,427 tons brought in during the previous year. Imports into Ontario amounted to 869,000 tons or 88 per cent of the total for Canada; 100,958 tons were brought into the maritime provinces and the balance 18,076 tons, was brought into the western provinces. Exports of coke from Canada, not including petroleum coke, during the twelve months ended December amounted to 41,778 tons, an increase of 63 per cent as compared with 25,578 tons in the previous year. Ontario exported 10,685 tons, the western provinces 29,353 tons and the maritime provinces 1,740 tons.

A review of the data for the six months ending June 30, 1927, shows a production of 1,016,715 short tons of coke, imports of 345,490 short tons and exports of 44,557 short tons, thus leaving 1,306,902 short tons available for consumption in Canada. The maximum output for the period was recorded in January when 176,445 short tons were produced. The low point for the six months was reached in February, when an output of 158,248 short tons was recorded. Bituminous coal carbonized during the half year totalled 1,474,551 short tons.

Production in Canada, Imports, Exports and Apparent Consumption of Coke, by Provinces, Calendar Years 1925 and 1926 and First Half 1927

		Nova Scotia New Bruns- wick and Quebec	Ontario	Manitoba, Saskatche- wan, Alberta and British Columbia	Canada
Production		925 504.956 126 646.929	830,839 1,144,493	210.944 235,636	1,546,739 2,027,838
Importa	6 months	268,320 125 52,329	638,014 739,104	110,381 60,994	1,016,715 852,427
Exports	6 months19		869.000 291,427 24	18.076 11.875 23.929	988,834 345,49 -25,578
Exports,	6 months19	1.740 27 993	10,685 30,248	29,353 13,316	41,779
Apparent consumption	6 months	26 746.147	1,569,949 2,002,808 891,956	248.009 224.359 106.961	2,373,388 2,973,314 1,386,982

Coke Production in Canada by Months, 1927

(Short tons)

	Bituminous coal used for coke making				Disposition of coke by makers			
Month				Coke	For use by maker		Sold	Total
	Canadian	Imported	Total	made	In coke plant	In own smelter	Solu	1000
January February March April May June Total	79,980 78,034 74,853 71,257	173, 223 153, 761 176, 289 175, 150 173, 869 167, 919 1,929, 211	251,091 226,109 256,269 253,184 248,722 239,176 1,474,551	176,445 158,248 171,894 170,405 173,727 165,996 1,016,715	21,394 19,351 20,704 19,909 20,700 19,945	73,195 65,621 87,064 97,432 101,523 95,792	90,979 78,976 60,872 47,694 36,372 39,513	185, 568 163, 948 168, 640 164, 945 158, 595 155, 250 996, 946

Coke used in iron blast furnaces during the period, 448,741 tons.

Feldspar

Feldspar production in Canada advanced 25.3 per cent in quantity in 1926 to a total of 35,951 tons as compared with 28,681 tons produced in 1925. The value of the shipments during the year was \$310,238 or \$8.63 per ton.

Exports of feldspar during 1926 were recorded at 33,016 tons invoiced at \$251,551. In 1925 exportations were considerably lower, amounting to 28,659 tons evaluated at \$209,164. Customs' records showed imports of feldspar at 2,314 tons, a 47·3 per cent increase over the figures of 1,570 tons for the previous year.

A resume of the feldspar situation in the United States is quoted below from the Engineering and Mining Journal:—

Competition has increased. Price cutting continued throughout 1926, and the year throughout witnessed a "buyer's market." As a partial offset to this, an increasing number of consumers have seen the evils resulting from the sacrifice of quality to price and have been willing to pay for a better article. Some are now requiring an anlysis and a screen test with each car. It is believed that this tendency will increase further. The average quality of spar sold has been improved. This seems to be a natural result in a highly competitive market.

Shipments of feldspar advanced appreciably during the first six months of 1927 and amounted to 15,926 tons valued at \$139,152, consisting of 6,855 tons shipped from Quebec deposits and 9,071 tons from Ontario. In the corresponding period of 1926 the total shipments were 13,135 tons worth \$114,016.

Production, Imports and Exports of Feldspar, 1925, 1926 and January 1 to June 30, 1927

	1925		19	26	January I to June 30, 1927	
	Tons	Value	Tons	Value	Tons	Value
Production	28,681 1,570 28,659	\$ 235,789 31,114 209,164	35,951 2,314 33,036	\$ 310,238 43,040 251,551	15,926 1,209 15,443	\$ 130,152 22,970 115,963

Fluorspar

The renewed activity in the fluorspar industry in Canada, which was apparent in 1925, was not sustained in 1926. No shipments of fluorspar were reported from Canadian deposits during the year under review. In the preceding twelve months, production amounted to 3,886 tons at \$19,234 and consisted principally of shipments from the Rock Candy mine and mill at Lynch Creek, British Columbia.

Fluorspar importations continue to increase; in 1926 shipments amounting to 9,968 tons worth \$97,482 were brought in from foreign countries. Customs' records for 1925 showed 5,111 tons appraised at \$60,458 imported into Canada. The customary small import of hydrofluo-silicic acid, namely, 2 tons valued at \$565 was also recorded in 1926.

Although the present United States tariff on fluorspar is placed at \$5.40 per ton, producers in that country have requested an increase in the rate. An excerpt from the Engineering and Mining Journal covers this phase of the fluorspar situation.

The Tariff Commission, at the request of some producers, recently investigated the fluorspar situation in the United States. It will probably make a report to the Commission some time in January, 1927. It has been determined that abundant deposits of fluorspar are available in the United States both for the present and future. An increase in duty of \$2.50 per short ton is asked, which is all that can be obtained under the existing tariff law. Imports from France and Italy have been increasing, and Spain is beginning to ship, claiming a practically unlimited supply available for export.

Production, Imports and Exports of Fluorspar, 1925, 1926 and January 1 to June 30, 1927

	19	25	193	26	January 1 to June 30, 1927		
	Tons	Value	Tons	Value	Tons	Value	
Production-		\$		- \$		\$	
Ontario British Columbia.	3,874	200 19,034	-	-	-	the me	
Total	3,886	19,234	40	-			
IMPORTA— Hydro fluo silicic acid Fluorspar	2·18 5,111	636 60,458	9,968	565 97,482	4 739	484 17,815	

Graphite

The increase in shipments of graphite noted during the first half of 1926 was continued in the last six months and the total for the year was reported at 2,727 tons worth \$194,860. In the preceding year 2,569 tons valued at \$158,763 were shipped. The Canadian producers during the year were: The Crucible Graphite Company, the Canadian Graphite Corporation, and the Black Donald Graphite Company, Ltd.

Exports of graphite, crude or refined, in 1926, according to Customs' records, totalled 2,564 tons appraised at \$180,851 as compared with 2,484 tons at \$135,897 exported in 1925.

The following information, regarding prices and markets, has been abstracted from the Engineering and Mining Journal:-

Prices-F.O.B. New York, per pound-

Cevlon lump, 8 to 9 cents; chip, 7 to 8 cents; dust, 3 to 6 cents; Madagascar flake, 61 to 7 cents, High-grade, finely ground, 12 cents up; medium grade, 8 cents up. No. 1 flake, 10 cents up; fine flake,

9 cents up. Foundry facings, 4 cents up. Amorphous, fine ground, 4 cents up; fine ground crystal-line, 7 to 12 cents. Crude amorphous graphite, \$15 to \$35 per ton, according to grade.

In Ceylon the graphite industry has been declining; many mines have been closed down and ers are marking time. The reason for this is the substitution of the electric furnace for the crucible others are marking time. The reason for this is the substitution of the electric furnace for the crucible both in steel and brass plants and also the use of larger amounts of Madagascar graphite and proportionally less Ceylon material in the manufacture of crucibles.

Madagascar and Ceylon continue to be the two chief sources outside of North America, although there are several countries where low-grade material is mined for local uses. The best examples of the minor regions are the Pinerolo district of north Italy and the nearby Briancon district of southern The product contains about 60 per cent carbon and is used mainly for foundry facings.

The production of graphite in Cauada during the first half of 1927 amounted to 899 tons valued at \$57,591. In the corresponding period of the previous year 1,371 tons valued at \$101,291 were shipped. The producers during the period under review were: The Crucible Graphite Company, the Canadian Graphite Corporation, and the Black Donald Graphite Company, Limited. According to Customs' records, the exports of graphite during the half year totalled 842 tons.

Production, Imports and Exports of Graphite, 1925, 1926 and January 1 to June 30, 1927

	1925		195	26	January 1 to June 30, 1927	
	Tons	Value	Tons	Value	Tons	Value
PRODUCTION	2,569	\$ 158,763	2,727	\$ 194,860	899	\$ 57,591
Imports— Crucibles, plumbago	100	49.730	-	60,782	-	29,213
Plumbago not ground or otherwise manufactured	-	772	-	3,836	-	1,457
Plumbago ground and manufactures of,	-	91,767	-	57,302	-	30,299
Exports— Graphite or plumbago, crude or refined.	2,484	135, 897	2.564	180,851	842	52,618

Gypsum

Continuing the advance in gypsum production recorded in 1925, the shipments during 1926 created a new high mark for the industry in Canada. Increases in tonnages shipped were reported in all producing provinces except New Brunswick. The total production for the year amounted to \$83,728 tons worth \$2,770,813 as compared with 740,323 tons at \$2,389,891 produced in 1925. The average values received by the operators were as follows: lump, \$1.49; crushed, \$1.74; fine ground, \$6.27; and calcined, \$10.07 per ton.

Importations of gypsum, all grades, into Canada were recorded at 6,298 tons worth \$119,141 as against 8,921 tons with a valuation of \$136,308 imported in 1925.

Canadian crude gypsum exported, principally, to the United States amounted to 668,064 tons in 1926. Ground gypsum and prepared wall plaster exported during the year totalled 10,062 tons. United States, Newfoundland, Australia and New Zealand were the principal importers of these materials.

The six months under review marked a considerable advance in the production of gypsum in Canada. Shipments totalled 331,893 tons valued at \$1,175,850 as compared with 250,369 tons worth \$964,638 shipped in the same period of 1926. The production by provinces was as follows: Nova Scotia, 227,060 tons; New Brunswick, 32,108 tons; Ontario, 42,298 tons; Manitoba, 20,191 tons, and British Columbia, 10,236 tons. Average values per ton received by operators follow: Lump, \$1.63; crushed, \$1.88; fine ground, \$6.37, and calcined, \$9.16. The total quantity of gypsum mined in Canada during the period was 364,774 tons, of which 80,479 tons, or 22 per cent, was calcined.

Production of Gypsum in Canada, 1925, 1926 and January 1 to June 30, 1927

	1925		1	926	January I to June 30, 1927	
	Tons	Value	Tons	Value	Tons	Value
CHUDE— Lump or mine run. Crushed Fine ground. CALCINED GYPSEM. Total	131,612 447,766 5,993 154,952 740,323	\$ 198,806 820,141 35,843 1,335,101 2,389,891	151,906 576,489 5,974 149,459	\$ 225,749 1,002,679 35,813 1,505,572 2,778,813	69,922 182,661 3,094 76,216	8 114,290 343,343 19,705 698,512

Imports into Canada and Exports of Gypsum, 1925, 1926 and January 1 to June 30, 1927

	19	25	1	926	January 1 to June 30, 1927		
	Tons	Value	Tons	Value	Tona	Value	
IMPORTS—		\$		8		- 8	
Gypsum, crude (sulphate of lime) Plaster of Paris or gypsum ground, not	4,433	66,064	933	32,442	464	18,881	
enderned	119	3,858	209	6,846	45	1,187	
wall plaster	4,369	66,386	5, 156	79,853	2.865	43,870	
Total	8,921	138,308	6,798	119, 141	3,374	63,938	
Exports— Gypsum or plaster, crude Plaster of Paris ground, and prepared	533,646	861,468	668,064	1,069,123	93,385	147,194	
wall plaster	5,643	87,242	10,062	137,785	2.628	47,618	
Total	539,289	948,710	678, 126	1,206,988	96,013	194,812	

Iron Oxides

Shipments of iron oxides in 1926 from Canadian deposits totalled 6,626 tons valued at \$101,843. The previous year's production amounted to 7,118 tons with a valuation of \$91,913.

Iron oxides are marketed in two forms—crude and calcined. Crude oxides are dried before shipment, for use in the purification of illuminating gas, while the calcined product is ground, usually for consumption in the paint industry.

The total production of iron oxides in Canada during the six months ending June 30, 1927, was 2,791 tops valued at \$37,610. During the first half of 1926 shipments were reported at 2,821 tons worth \$37,915.

Magnesite

While the tonnage of magnesite produced in Canada during 1926 decreased there was a considerable increase in value. The 1926 shipments were recorded at 4,571 tons evaluated at \$137,431; in 1925, shipments totalled 5,576 tons with a valuation of \$122,325. The International Magnesite Company and the Scottish Canadian Magnesite Company were the only producers in Canada.

Exports of calcined magnesite were somewhat lower at 653 tons worth \$19,587 as against a total of 834 tons at \$21,401 in 1925.

During the first six months of 1927 the production of calcined and dead-burned magnesite amounted to 2,801 tons valued at \$\$1,344. These figures showed a considerable advance over the sales reported during the first half of the preceding year, when 2,498 tons at \$72,075 were marketed. Exportations of calcined magnesite during this period were 413 tons with a valuation of \$10,229.

Production, Imports and Exports of Magnesite, 1925, 1926 and January 1 to June 30, 1927

	19	25	19	26	January 1 to	June 30, 1927
	Tons	Value	Tons	Value	Tons	Value
		\$		\$		S
Phoduction— Calcined	5,576	122,325	4,571	137,431	2,801	81,344
Total	5,576	122,325	4,571	137,431	2,801	81,344
Imports— Magnesia pipe covering. Magnesite. Magnesite firebrick. Exports— Magnesite, calcined.	111	108,631 4,528 75,161 21,401	150 - 653	122,411 6,746 66,429 19,587	44	80,473 1,765 66,016 10,229

Magnesium Sulphate

No activities have been reported in this industry since 1923. In that year 121 tons of refined magnesium sulphate were shipped from a deposit near Ashcroft, B.C. The importations of magnesium sulphate or epsom salts during 1926 reached a total of 2,131 tons valued at \$39,016. The average value for this period's imports was somewhat lower than that reported for 1925, when 2,137 tons at \$45,181 were brought into Canada.

During the first six months of 1927 imports of magnesium sulphate were recorded at 1,180 tons appraised at \$19,640.

Mica

Production of mica in Canada during 1926 totalled 2,545 tons valued at \$229,205, as against 4,020 tons worth \$261,463 produced in 1925. Customs' records for the year under review showed exports of rough-cobbed mica amounting to 44 tons appraised at \$20,516; splittings, 315 tons at \$432,345; and scrap and waste, 3,799 tons at \$45,297.

Mica shipments during the six months ending June 30, 1927, were reported at 1,205 tons valued at \$99,577 as compared with 1,148 tons at \$105,094 shipped in the first half of the preceding year.

Production of Mica in Canada, 1925, 1926, and January 1 to June 30, 1927

		1925			1926		January 1 to June 30, 1927		
Grade	Quantity	Value f.o.b. shipping point	Price per pound	Quantity	Value f.o.b. shipping point	Price per pound	Quantity	Value f.o.b. shipping point	Price per pound
Rough cobbed Thumb trimmed. Splittings Scrap	1b. 413,500 357,943 188,265 7,080,331	\$ 23,471 73,443 129,451 35,095	\$ 0.056 0.238 0.69 0.005	1b, 109,880 322,639 180,603 4,476,405	\$ 11.724 64.958 120,503 32,020	8 0·10 0·20 0·67 0·007	lb. 58,333 171,641 76,583 2,103,495	\$ 6,200• 27,698 50,323 15,356	\$ 0·10 0·16 0·06 0·007
Total	8,040,039	261,463	0-636	5,089,527	229,205	0.04	2,410,052	99,577	0-04

Exports of Mica from Canada, 1925, 1926, and January 1 to June 30, 1927

The second second second)25	1.9	26	Jan. 1 to June 30, 1927	
	Tons	Value	Tons	Value	Tons	Value
Rough cobbed and thumb trimmed	29 230 4,991	\$ 21,366 324,967 63,931 1,046	44 315 3,709	\$ 20,516 432,345 45,297 1,084	50 114 1,785	\$ 14,723 151,694 22,590 527
Total		411,310	-	499,242	-	189,534

Mineral Waters

Mineral springs and wells in Canada produced 215,356 imperial gallons of mineral waters valued at \$29,721 during 1926. In the preceding year the marketed output reached a total of 190,134 imperial gallons worth \$28,413. The 1926 shipments were made up of 6,956 imperial gallons from Quebec and 208,400 imperial gallons from Ontario.

The production of numeral waters during the half year ending June 30, 1927, totalled 121,611 imperial gallons worth \$12,850. Ontario springs and wells contributed 119,735 gallons valued at \$12,346, while the remainder was produced from Quebec wells.

Natro-Alunite

There was no record of any production of natro-alumite in Canada during 1926 nor during the first six months of 1927. Shipments of natro-alumite during 1925 amounted to 20 tons valued at \$1,000. The Canadian output to date has been derived from a deposit at Kyuquot Sound, Vancouver Island, British Columbia.

Natural Gas

The natural gas production in Canada during 1926 showed a substantial increase over the total for the preceding year. This year's production amounted to 19,208,209 thousand cubic feet valued at \$7,557,174; in 1925 the figures were 16,902,897 thousand feet worth \$6,833,005. The province of Alberta continues to hold the premier position with a total of 10,794,697 thousand cubic feet; Ontario was next in order with 7,764,996 thousand cubic feet; and New Brunswick followed with 648,316 thousand cubic feet. Average prices per thousand cubic feet were as follows: New Brunswick, 19 cents; Ontario, 56-8 cents; and Alberta, 28 cents.

Alberta's augmented production of natural gas was due in the main part to the increased output of wells in the Turner Valley field. The bringing in of these wells has insured a dependable supply of gas to the industrial area of Calgary.

A summary report by Col. R. B. Harkness, Commissioner of Gas for Ontario, concerning conditions in the natural gas industry in Ontario during 1926 is given below.

Essex County.—A new well was drilled on lot 7, con. Front Road with an open flow of 75,000 cu. ft. and rock pressure, 345 lb.

Kent County.—The Southern Ontario Gas Company has been working westerly along the shore of Lake Eric from the Tilbury field, and got a very good well just beyond the known western extension of this field in Romney township. There has been the usual drilling in the old Tilbury field, fitting in a well where the distance in between the wells permitted. In the Dover field the Union Natural Gas Company have drilled their twentieth well, lot 2, con. III. Dover West, a small gas well 600 M cubic feet to the north of No. 13, which was the largest gas well in the field. They completed a well last fall, some 200 or 300 yards northeast of No. 13; a dry hole. This field has been a great disappointment; it is a long narrow field and the production is pretty spotted; there is still plenty of room for exploration and no reason why another field should not be discovered.

In Howard township the Union Natural Gas Company has been purchasing a supply of gas from farmers who have drilled wells in the surface drift, a most surprising gas field. One well had an open flow of over 3,000,000 cubic feet; the average initial rock pressure of the field was about 15 lb.; gas was found at about 120 feet. The gas was put directly into the Ridgetown low pressure system. It has supplied that town during the years 1924-1925, 106,684 M cubic feet. There are about 50 more of these wells supplying gas to the owners for their houses only: they use a low average 200 M cubic feet each, a total of 10,000 additional per year.

Lambton County.—There have been quite a lot of shallow wells drilled in the north half of this county, and quite a number of small gas wells resulted, with two or three small oil wells. The location of these wells is near Aberarder and from there along the south shore of Lake Huron to the City of Sarnia. The deep test being drilled at Ackona is still incomplete; they no sconer got the well clear of obstruction than they lost their drilling tools again. They have been drilling here for nearly four years, and have not finished their well. There is no change in the situation elsewhere in Lambton county.

In Dawn township the Union Natural Gas Company has done some more drilling for gas, but although they have not succeeded in enlarging the field to any extent, they found two producing wells, one of which gave an excellent yield of gas.

Norfolk County.—The discovery of gas in Middleton Township field has been developed to the linits of the field; it is not as promising as it appeared to be at first; after the winter drain the rock pressure lowered over 50 per cent and the open flow about 60 per cent. It is apparently a very small field.

Perth County.—The well being drilled north of Mitchell, in Logan township, has been completed to the Precambrian; a dry hole.

Brant County.—A well has been drilled on lot 13, con. III, of Tuscarora, no gas or oil in commercial quantities was found in the Clinton or Medina-Cataract, and the test was carried to the Trenton; a dry hole.

Weatworth County.—Near the village of Alberton, in Ancaster township, on lot 20-21, con. IX, a well was located by means of a divining rod and the test carried to the Precambrian; only a trace of oil was found, and this in the Trenton limestone.

Haldimand County.—The usual number of wells have been drilled throughout this county, in the old gas fields, they number about 60 per year. The townships of Dunn and South Cayuga have given the best results. An area along the line between these townships is apparently isolated from the remainder of the field, and gives some very good results. One well had a flow of slightly over 1,000,000 cubic feet.

York County.—A dry hole to the Precambrian was drilled on lot 14, con. III. York township. A small gas well was completed on lot 64, con. I. Whitechurch township; a small flow of gas was found at about 400 feet in the Trenton. The Trenton here is remarkably thin, about 520 feet, and the surface very deep. The surface deposits were 570 feet thick.

Peel County.—A well was drilled on lot 17, con. I, Albion township; it penetrated the Trenton a short distance when the hole was lost through the caving of the upper shales; the hole was full of water and it was not a good test.

The total production of natural gas in Canada during the six months ending June 30, 1927, was 11,347,648 thousand cubic feet valued at \$4,614,438, or an average of 40.6 cents a thousand cubic feet. Alberta in its role of principal producer accounted for 7,050,538 thousand cubic feet; Ontario followed with 3,889,150 thousand cubic feet, and New Brunswick was third with 407,860 thousand cubic feet. Average prices received per thousand cubic feet were, by provinces: New Brunswick, 19 cents; Ontario, 65 cents, and Alberta, 28 cents.

Alberta's greatly increased output of natural gas was largely obtained from the wells in the Turner Valley field. Bringing in of these wells has ensured a dependable supply of gas to the industrial area of Calgary.

Production of Natural Gas in Canada and Imports, 1925, 1926, and January I to June 30, 1927

	193	25	193	26	Jan. 1 to Ju	ne 30, 1927
Province	M cu. ft.	Value	M cu. ft.	Value	M. cu. ft.	Value
		8		\$		\$
Production— New Brunswick. Ontario Manitoba Alberta	639,235 7,143,962 200 9,119,500	122,394 3,958,006 60 2,752,545	648,316 7,764,996 200 10,794,697	128,300 4,409,593 60 3,019,221		2.527,948
Total	16,902,897	6,833,005	19,208,209	7,557,174	11,347,649	4,614,43
Imports— Gas for cooking, heating or illuminating, imported by pipe line	63,614	40,542	119.310	74,942	71,519	44,58

Peat

No operations were carried on in the peat industry in Canada during 1926. The Alfred bog in Outario was operated during 1925 by the Peat Fuels, Limited, using the air-dried machine process developed by the Ontario-Federal Committee. The total shipments from this bog in 1925 amounted to 1,370 tons valued at \$8,394.

Petroleum

Crude petroleum production in Canada during 1926 showed an encouraging increase over the total for the preceding year. The year's production amounted to 364,444 barrels valued at \$1,311,665; in 1925 the total was 332,001 barrels worth \$1,250,705. Alberta's production, mainly from the Royalite No. 4 wet-gas well, topped the high mark of 1925, reaching a new record of 216,050 barrels. A decline was shown in the Ontario production for the year when 137,850 barrels were produced. Another feature of considerable worth was the proportionately large increase in the New Brunswick production, the 1926 figures being 10,544 barrels as against 5,376 barrels in the preceding year.

July 1, 1925, marked the cessation of payment by the Federal Government of bounty on crude petroleum produced in Canada.

Col. R. B. Harkness, Commissioner of Gas for Ontario, reviews the developments in the petroleum industry in Ontario during 1926 as follows:—

The conditions in the oil fields of Ontario are about the same as in past years. Wells continue to pump a few gallons daily so long as the casing withstands the spring freshets. This spring flood water takes its annual toll of wells, by collapsing the casing which has become too thin, through corrosion, to withstand the strain. Wells which do not produce a sufficient revenue to make it profitable to replace this casing with new material, or any available second-hand material are abandoned. In this manner the oil fields of Ontario are gradually passing into history.

In Zone township the deep test at Thamesville, lot 5, con. III, was finished to the Precambrian with no flow; the well is abandoned. Oil and gas occurred at the base of the sediments. In the easterly part of the same lot, and just over into the northern portion of lot 4, an extension of the old shallow oil field has been found; some of the wells have been pumping 10 barrels for several months. The old Klondike field in lot 6, con. I, has been revived; one well has been producing 10 barrels of oil steadily, since the accumulation of water has been pumped off. A small extension of the field, in a northwesterly direction, has been found by drilling. In lot 5, con. XHI, Gore of Camden, a small flow of gas and some oil was found in 1926, but the operators did not consider it worthey of any further expenditure. During the past month, however, a well was drilled near the northern boundary of lot 5 which had a production of 12 barrels per hour. A second well has been drilled that appears to be quite as good, and a well drilled in 1926 has the appearance of being quite as good as either one of these, but requires a larger pump to get the best results. It looks very much as if they are going to find a pool of oil in that vicinity, but no estimate can be made of the extent of the field at the present to find a pool of oil in that vicinity, but no estimate can be made of the extent of the field at the present

Oil and gas developments in western Canada during 1926 have been summed up in the following report by C. C. Ross, Supervisory Engineer of the Northwest Territories and Yukon Branch, Department of the Interior:

Turner Valley .- At the end of the year the wells drilling and nearing completion in this area totalled twenty-two rigs, of these sixteen were spudded in during the year. This impetus to prospecttotalled twenty-two rigs, of these sixteen were spudded in during the year. This impetus to prospecting operations was no doubt solely due to the fact that Royalite No. 4, contrary to all expectation, still maintained, at the beginning of the year, after fifteen months uninterrupted flow, a gas pressure fluctuating in the neighbourhood of 700 pounds per square inch and delivering daily between 17 and 18 million cubic feet of wet gas from which were extracted increasing quantities of high grade naphtha. Up to the end of 1925 the quantity of the latter extracted amounted to 156,766 barrels; during 1926 the extraction figures, although showing slight variations from month to month, showed that this well was still holding up in a manner unprecedented on any of the known oil or gas fields of the world, the total naphtha extraction figures for 1926 being 194,127 barrels.

The naphtha has a high market value—84.724 per barrel. The return from this one well was phenomenal—approximating close on one million dollars—the effect on the local investing public was instantaneous and increased efforts were at once made to complete the wells in drilling at the continencement of 1926. Also many new companies were formed to operate in this and other areas

commencement of 1926. Also many new companies were formed to operate in this and other areas in Alberta. In the Turner valley alone sixteen wells were started during the year and a total of 42,779 leet of drilling work was accomplished in these wells and exclusive of the amount drilled in wells

which had been started prior to 1926.

During the year the only completed wells were the Vulcan No. 1 and Illimois-Alberta No. 1, the former being 5,005 feet and the latter 3,831 feet. At the Vulcan well the limestone was entered at 4.865 feet; from this depth gas was met at various points, increasing in quantity as the well was deepened, until finally at 5.005 feet the flow was sufficiently strong to lift the cable drilling tools a considerable height in the well where they must have jammed with the drilling cable. In an endeavour to recover the tools the drilling cable broke, but although the latter and the string of teols are still in the well and must materially impede the free flow of the gas, the daily flow approximates 7,000,000 cubic feet, from which are extracted 140 barrels of naphtha per day by passing the gas through That all the naphtha content of the gas is not extracted must be apparent to all who can appreciate the difficulties in adjusting gas separators to a fluctuating pressure and yield

The Illiaois-Alberta Company appreciating the dangers of drilling into the gas zone with cable the images defined company appreciating the dangers of drifting into the gas zone with cable tools, discontinued the use of the latter at 3,678 feet (the limestone having been met at 3,651 feet), and endeavoured to complete the well with diamond core drilling tools; difficulties, however, were encountered, said to be due to the high gas pressure freezing the tools. The well was eventually drilled to the depth of 3,857 feet, where a flow of gas estimated at between four and five million cubic feet was encountered while the tools were in the well, all efforts to recover the latter proved ineffectual. The well was finally connected to a gas separator, by which means 120 harrels of naphtha are recovered daily. Again, as at the Vulcan, the residue gas has to be burned wild and distinctly shows that the naphtha content is not completely removed.

At the McLead No. 2 well a heavy flow of gas was encountered in August at 3,620 feet. Other flows were not increasing in quantity with depth until a maximum of ten million cubic feet was encountered at 3,770 feet where, unfortunately, a drilling bit was lost. Efforts to recover the latter have been continued to date without entire success, but immediately this is accomplished the well can be coupled up to the separator and will add another to the list of producing wells in the area.

Several of the new wells, commenced during 1926, are now at considerable depth and nearing the limestone and within a short period further wells should be in the producing list and add considerably to the amount of naphtha produced. In the majority of these wells the shallow oil horizon has been met at depths ranging between 2,200 feet and 2,400 feet, but in no case has any attempt been made to develop this zone, although it is probable that wells drilled to this borizon would prove very remunerative owing to the initial low cost for drilling and the high market value which the oil can command. At provent overstare are all tempted to drill for the Benglick invested in the comment. command. At present operators are all tempted to drill for the Royalite limestone.

Outside of the Turner Valley area all prospecting wells have been drilled (without any connected method) and in the majority of cases at points remote from one another. A brief summary of these operations follows:-

Rica Creek.—About thirty miles west of Nanton a well was drilled by the Imperial Oil Company to a depth of 5,747 feet where operations were suspended until spring.

Highwood Area.—About twenty miles west of the town of High River the Imperial Oil Company is drilling a well at a depth of 1,780 feet.

Bragg Creek, Moose Mountain, Jumping Pound and Bow River Areas.—During 1926 several wells were resumed and some started at different points in these areas, but none have yet reached a conclusive depth. In several, slight oil and gas indications were met which may, if followed up, lead to the discovery of productive areas.

Wainwright .- During the period under review only three new wells were started in this field, but none have yet been completed. An official test for production of the British Petroleums, Limited, Well No. 3B, was carried out during November, the test over a period of three days showed a production of clean oil amounting to 3-8 barrels per hour.

Ribstone.—This is an area which has attracted a great deal of attention during 1926, and already three wells are being drilled. Up to date only one of these has been drilled to a depth where results may be expected, this is the Imperial Oils Ribstone No. 1 test which met a good show of heavy asphaltic oil at 1,900 feet; this, however, has been cased off and drilling is proceeding to test deeper strata. The indication is encouraging and proves the possibility of this heavy oil being found in remunerative quantities somewhere in the neighbourhood.

Outside of Alberta, very little prospect drilling was done in 1926, and that only of a desultory kind and at points widely separated.

Conclusions.—From present indications it is evident a great deal of new prospecting and development work will be started during the coming season, and if this is efficiently carried out many interesting developments are to be expected which may lead to the discovery of more productive oil and gas areas.

Petroleum and its products imported into Canada during 1926 were valued at \$52,063,686, an increase of \$8,221,259 over the 1925 import value of \$43,842,427. Gasoline importations were recorded at \$2,839,688 gallons invoiced at \$11,958,795.

Crude petroleum amounting to 244,217 barrels valued at \$776,824 was produced in Canada during the half year under review. In the corresponding period of 1926 the production was 173,880 barrels valued at \$697,551.

Ontario producers received an average price of \$2.10 a barrel; those in Alberta, \$3.76, and in New Brunswick, \$2.07.

The Royalite Well No. 4, a wet-gas producer in the Turner Valley field, maintained its record average production of over 500 barrels of crude naphtha per day.

Production of Crude Petroleum in Canada, 1925, 1926 and January 1 to June 30, 1927

		19	25		192	6	Jan. 1 to Ju	ne 30, 1927
Province	Barrels	Value less bounty	Bounty paid	Total value	Barrels	Total value	Burrels	Total value
New BrunswickOntario— Petrolia and Enniskillen	5,376 52,481	\$ 16,805 133,301	\$ 1,951 7,923	\$ 18,756	10,544 58,170	\$ 29,940 153,428	15,598 28,089	\$ 32,36 58,56
Oil Springs Moore Township Sarnia Township Plympton Township	39,137 8,195 1,905 1,424	102,148 20,815 4,839 3,617	5,627 576 379 184	107,775 21,391 5,218 3,801	38,350 2,438 1,890 1,047	107,438 6,619 5,163 2,860	18,642 1,002 919 1,011	40, 18: 2, 08: 1, 91: 2, 10:
Bothwell. West Dover. Raleigh Township. Dutton	26,243 1,820 887 146	66,657 4,766 2,253 381	3,680 309 156 38	70,337 5,165 2,409 419	25,382 959 676	69,331 2,619 1,845	12,497 147 276	26.05 30 57
Onondaga. Mozn Township. Thamesville	81 8,397 289 855	210 21,328 734 2,172	1,181	219 22,509 734 2,173	555 7,868 2,376 139	1,516 21,491 6,490 380	361 3.654 2.440 139	75 7,61 5,08
Dunwich Rouney Township Euphemia	1,235	3.076 106		3,076 108	-	-		
Total for Ontario	143,134	366,403	20, 152	386,555	137,850	379,221	69,177	145,54
Alberta	183,491	845,394	-	845,394	216.050	992.504	159,442	598.91
Canada	332,001	1,228,602	22,163	1,250,705	364,444	1.311.665	244,217	776,82

Imports into Canada and Exports of Petroleum and its Products, 1925, 1926 and January 1 to June 30, 1927

	19	25	19	26	Jan. I to J	une 30, 1927
	Quantity	Value	Quantity	Value	Quantity) Value
IMPORTS— Crude petroleum in the natural state, -7900 specific gravity or heavier at 60 degrees temperature, when imported		8		\$		*
by oil refiners to be refined in their own factories. gals. Crude petroleum, gas oils other than naphtha, benzine and gasoline lighter than 8235 but not less than 775	436,258,650	23,414,837	570,383,547	31,338,734	301,467,140	14, 196, 340
Petroleum (not including crude petroleum imported to be refined or illuminating	4,181,914	227,378	60,562	6, 159	74,636	5,832
or lubricating oils) :8225 specific gravity or heavier at 60 degrees temperaturegals. Petroleum, imported by miners or min- ing companies or concerns, for use in the concentration of ores or metals in	103,667,295	4,690,901	91,577,778	3,742,505	83,222,73	1,351,825
their own concentrating establish- ments gals. Petroleum, crude, not in its natural state, -7900 specific gravity or heavier at 60 degrees temperature when imported	129,665	26,251	133,439	37, 133	99,596	24,083
by oil retiners to be refined in their own factories gals. Kerosene and Lluminating Oils	49, 149	2,910	5,472,250	263,864	7,513,342	394,622
Coal oil and kerosene, distilled, purified or refined, n.o.p gals. Illuminating oils, composed wholly or in part of the products of petroleum, coal, shale or limits as of the coal, the coal of t	4,860,876	391,538	3,611,778	404,051	1,767,994	164,179
shale or lignite, costing more than 30 cents per gallon. Gale. Coal oil and kerosene, distilled, known as "engine distillates". 725 specific gravity and heavier, but not heavier than	2,451	1.776	6,210	2,919	3,507	1,628
1770 specific gravity at 80 degrees temperature	395,785	63,587	1,224,464	139,404	24,020	2,294
part of petroleum, and costing less than 25 cents per gallon	3,813,543 4,632,195	712,850 1,770,739	5,180,614 5,079,264		2,649,907 3,129,218	455,766 1,306,023
Gasoline under -725 specific gravity at 60 degrees temperature	58,993,020	8,388,057	60,105,404	8,670,438	32,878,177	3,746,536
degrees temperature gals. Gasoline, n.o.p gals. All other oils, n.o.p. gals.	24,897,661 37,070 204,633	3,204,479 7,093 109,348	22,666,298 67,986 215,337	3,277,288 11,069 132,120	9,723,698 218,566 105,621	19,200
Orner Products of Petroleum Grease, axle	3,776,077 1,601,505 208,887	230,151 124,234 46,257	4,556,607 1,946,905 382,373	290,092 141,241 82,213	2,519,195 1,918,577 198,961	146,709 99,282 43,893
other purposes. lb. Petroleum, products of, n.o.p. gals.	1,243,176	216,464 213,577	2,247,183	205,463 350,438	1.052,278	79,524 166,832
Exports—	-	43,842,427	-	52,063,686	-	23,251,179
Oil, coal and kerosene, crude gals. Oil, coul and kerosene, refined guls. Oil, gasoline and naphtha. guls. Oil, mineral, n.o.p. gals. Wax, mineral cwt.	7,375,163 1,508,686 1,568,555 1,473,779 14,541	346,512, 155,783, 333,330, 287,463, 82,999	21,043,135 1,584,645 3,867,536 961,577 10,682	851,750 192,988 773,958 200,562 62,329	12,048,729 685,376 1,270,372 75,616 2,772	631,633 81,887 229,080 23,167 16,138
Total		1,206,087	- 10,002	2,081,587	4,116	10,100

Phosphate

Activity in the phosphate industry in Canada has been practically negligible for a number of years. In 1926 a small shipment of phosphate rock amounting to 40 tons valued at \$800 was made from the province of Quebec.

During the preceding year 16 tons of crude materials worth \$189 were shipped from an old mine dump. The Canadian demand for phosphate is supplied almost entirely by shipments of Florida phosphate, and the total imports during 1926 were recorded at 14,244 tons, appraised at \$65,607. During the previous year imports amounted to 14,002 tons valued at \$62,107.

During the first six months of 1927 the Canadian production of phosphate amounted to 69 tons valued at \$893. These shipments consisted of 31 tons of crude material taken from an old mine dump in the province of Quebec and 38 tons shipped for experimental purposes in British Columbia. Imports of phosphate during this period were 3,240 tons evaluated at \$23,073.

Pyrites

Shipments of pyrites (iron and copper) were made during 1926 by the Eustis Mining Company in Quebec, the Grasselli Chemical Company in Ontario, the Consolidated Mining and Smelting Company, and the Granby Consolidated Mining, Smelting and Power Company, Ltd., in British Columbia. The total production by these producers was reported at 17,845 tons worth \$63,899; in 1925 the shipments amounted to 15,605 tons at \$58,899. The average sulphur content of the ores shipped in 1926 was 50·3 per cent, or 8,975 tons.

The production of pyrites during the first half of 1927 totalled 21,418 tons valued at \$78,931 as compared with an output of 7,615 tons worth \$30,645 produced in the same period of 1926. Early in the year the Britannia Mining and Smelting Company commenced shipments of a pyrite concentrate to manufacturers of sulphuric acid.

Production, Imports and Exports of Pyrites, 1925, 1926 and January 1 to June 30, 1927

	193	25	192	16	Jan. 1 to Jun	ne 30, 1927
	Tons	Value	Tons	Value	Tons	Value
Production by Provinces— Quebec. Ontario British Columbia.	12,250 685 2,670	\$ 36,750 8,799 13,350	14,100 371 3,374	\$ 42.117 4.912 16.870	8,533 199 12,686	\$ 25,590 2,588 50,744
Total	15,605	58,899	17,845	63,899	21,418	78,931
Imposts— Brimstone, or sulphur, crude or in roll or flour	146,609	1,982,788	185,625	2,945,651	53,334	906,464
Exports— Sulphur contained in pyrites	13	150	_	**	4,435	35,476

Quartz

Production of quartz (silica) from Canadian quarries during 1926 amounted to 232,082 tons valued at \$553,161, as against a total of 197,224 tons worth \$363,612 shipped in 1925. Ontario sales were recorded at 192,733 tons; Quebec, 24,550 tons; and Nova Scotia, 8,333 tons.

Silex and crystallized quartz to a total of 2,554 tons at \$60,070 and flint to the amount of 4,731 tons at \$49,635 were imported into Canada during the year under review.

Shipments of quartz (silica) from Canadian quarries during the six months ending June 30, 1927, amounted to 97,156 tons worth \$179,216, as compared with shipments of 62,314 tons at \$120,673 in the same period of 1926. The Ontario sales were recorded at 85,237 tons; Quebec 10,567 tons; and Nova Scotia 1,013 tons.

Importations of silex, or crystallized quartz, amounted to 1,155 tons at \$27,036, and flint to the amount of 1,158 tons at \$13,066 was also brought into Canada.

Production in Canada and Imports of Quartz, 1925, 1926 and January 1 to June 30, 1927

No. of the last of	1.93	25	19	26	Jan. 1 to Jun	ne 30, 1927
	Tons	Value	Tons	Value	Tons	Value
Production— Nova Scotia. Quebec Ontario. British Columbia.	1,352 6,457 188,560 853	\$ 6,760 30,064 324,526 2,262	8,333 24,550 192,733 6,436	\$ 29.018 107.779 339.304 77.060	1.013 10.567 85.237 339	\$ 4,567 35,973 137,659 1,017
Total	197,224	363,612	232,082	553,161	97,156	179,216
IMPORTS— Silex or crystallized quartz, ground or unground Flint	2,196 3,601	39,301 36,936	2,554 4,731	60,070 49,635	1,155 1,158	27,036 13,866

Salt

Salt production in Canada continues to increase; the high record of 233,746 tons produced in 1925 was topped by a new high mark of 262,547 tons in 1926. This year's value was recorded at \$1,480,149, as compared with a value of \$1,410,697 for the 1925 production. The average price for all grades declined somewhat, being \$5.63 per ton in the year under review, as against \$6.04 in the previous twelve months.

Ontario's production amounted to 252,345 tons, or 96·1 per cent of the Canadian total, while Nova Scotia and Alberta contributed the remainder. Alberta shipments came from the Fort McMurray district and totalled 2,037 tons. The Nova Scotia production was derived from the Malagash mine.

Customs' records showed that 188,401 tons of salt appraised at \$1,036,594 were brought into Canada in 1926.

The production of salt in Canada during the first six months of 1927 was 124,166 tons valued at \$785,484. During the corresponding period of last year, shipments amounted to 124,921 tons at \$708,664.

Ontario production was 117,877 tons, Nova Scotia 6,189 tons, and Alberta 100 tons.

Production of Salt in Canada, by Grades, 1925, 1926 and January 1 to June 30, 1927

		1925		ij	1926		January 1 to June 30, 1927		
Grade	Manu- factured	Sold	Value of salt sold (Not includ- ing pack- ages)	Manu- factured	Sold	Value of salt sold (Not includ- ing pack- ages)	Manu- factured	Sold	Value of sult sold (Not includ- ing pack- ages)
	Tons	Tons	\$	Tons	Tons	\$	Tons	Tons	\$
Table and dairy. Common fine Common coarse Land salt Other grades Brine for chemical works (Salt equivalent sold or used)	47,452 34,383 46,637 5,133 11,799 93,500	46,790 33,197 43,931 5,125 11,203 93,500	713,571 186,297 312,107 21,826 83,396	50.642 46.131 30.937 4.170 15.178	50,905 47,202 32,785 3,965 14,670	762,491 241,320 228,395 16,805 118,058	25,801 19,430 13,383 3,329 9,342 53,636	25,842 19,690 11,904 3,242 9,852 53,636	424,614 121,896 98,514 16,170 70,654
Value of packages	238,904	233,746	1,410,697 518,528	260,078	262,547	1,480,149 569,396	154,951	124,166	785,484 272,570
Grand Total	-	-	1,959,225	-	-	2,049,545	-	_	1,058,054

Imports into Canada and Exports of Salt, 1925, 1926 and January 1 to June 30, 1927

	11	025	19	26	January I to J	une 30, 1927
	Tons	Value	Tons	Value	Tons	Value
Imports-		\$		8		-8
Salt, for the use of the sex or gulf fisheries	80,398 73,166 40,061	329,820 327,364 420,137	83,929 75,965 28,053	327,040 393,747 284,118	25,430 34,703 14,098	99,458 166,138 136,427
ingredients, when containing not less than 90 per cent of pure salt. (From April 1, 1926)	-	-	454	31,689	430	27,098
Total	193,625	1,077,321	188,40t	t,036,594	74,679	429, 116
Exports	2,324	26,678	1,164	19,423	301	7,837

Sodium Carbonate

Shipments of sodium carbonate crystals during 1926 were somewhat lower than the quantity shipped in 1925. The production for the year under review amounted to 595 tons at \$5,370, as compared with shipments of 1,120 tons at \$8,140, in 1925.

Sodium carbonate is used in the manufacture of glass, soap and paper, for bleaching and washing linen, cotton, wool, etc., dyeing and printing fabrics, preventing the formation of boiler scale, and also to a small extent as a re-agent in analytical chemistry.

The manufacture of soda ash from salt brine is carried on in Canada on a large scale by Brunner-Mond, Limited, at Amherstburg, Ontario.

The production of sodium carbonate crystals during the first six months of 1927 totalled 271 tons valued at \$2,710.

Sodium Sulphate

Natural sodium sulphate shipped from Canadian deposits during 1926 amounted to 6,775 tons valued at \$13,550. In 1925 shipments were 42.8 per cent lower, amounting to 3,876 tons at \$19,380.

Importations of salt cake during 1926 were recorded at 41,945 tons worth \$644,696; glauber's salt to a total of 733 tons at \$10,069 and bisulphate of soda or nitre cake amounting to 15,948 tons at \$53,536 were also imported into Canada.

Production of sodium sulphate in Canada from the deposits of natural sodium sulphate in the province of Saskatchewan totalled 2,471 tons valued at \$4,943 during the first half of 1927. The imports of salt cake during this period were reported at 13,330 tons valued at \$216,427, while soda, bisulphate of, or nitre cake, amounting to 6,000 tons at \$24,001, and glauber's salt to a total of 65 tons were also imported into Canada.

Talc and Soapstone

The improvement shown in the talc and soapstone industry in Canada during 1925 was continued throughout 1926. Shipments in the year under review totalled 15,767 tons valued at \$217,195 as compared with 14,474 tons at \$205,835 shipped in 1925.

In addition to the advance in production of tale in Canada there has been a considerable increase in soapstone shipments. An excerpt from a report on the soapstone industry by Hugh S. Spence follows:—

Canadian sulphate pulp mills are estimated to use in the neighbourhood of 2,500 tons of soapstone per year. This stone is employed in the form of sawn blocks and bricks for building the furnaces used in recovery of the alkali or black liquor from the digestors, and is the only natural product known that will satisfactorily resist the action of the molten alkali. Since the recovery of such alkali is of great import in kraft mill practice, it follows that soapstone is a very important material to the pulp mill operators.

In the province of Quebec, however, the most active development has been undertaken, operations here having been helped by the fact that many of the largest kraft mills are situated in the province, within a relatively short rail haul from the deposits. Production has, in the main, been confined so far to a single operator, the Robertsonville Soapstone Quarry Company, which has opened up a number of small quarries in the eastern portion of the serpentine belt, with which are associated the principal asbestos mines. Small, portable sawing units, driven by individual gasoline engines, are used to cut the stone into blocks and bricks of the dimensions specified by the mills. Most of the quarries opened by the company in its initial stages have now been abandoned, and work is at present confined to a single quarry, where the stone has been found to be of superior quality to that hitherto worked. It is the intention of the company to instal permanent equipment at this point, and to undertake operations on a larger scale, with a view to taking care of the entire soapstone requirements of Eastern Cannda. It is also proposed to grind the quarry waste, making products suited to the roofing and foundry trades.

While a certain amount of soapstone continues to be imported from the United States and from Seandinavian countries, it is gratifying to note that Canada seems now well on the way to filling her requirements in respect of this material from within her own borders.

Production of tale and soapstone during the first half of 1927 reached a total of 7,729 tons worth \$111,406 as against 7,888 tons at \$115,113 shipped in the corresponding period of 1926.

Production in Canada, Imports and Exports of Talc and Soapstone, 1925, 1926 and January 1 to June 30, 1927

	192	5	192	6	January 1 to June 30, 1927		
	Tons	Value	Tons	Value	Tons	Value	
		S		\$		\$	
Phonuction— Soapstone Tale	768 13,706	32,655 173,180	995 14,772	42,609 174,586	505 7,224	23,086 88,326	
Total	14,474	205,835	15,767	217, 195	7,729	111,40	
Imports— Taic or soapstone, ground or unground Exports—	4.568	91,288	4,213	89,026	1,754	30.38	
Talc, crude Talc, refined	10,461	124,217	10,823	125,633	5,062	15 58,96	

STRUCTURAL MATERIALS AND CLAY PRODUCTS

Construction contracts awarded in Canada during 1926 were the highest on record since the banner construction periods of 1912 and 1913. Corresponding with this record increase the 1926 production of clay products and other structural materials reached a total valuation of \$39,959,398 as compared with a total of \$37,649,234 in 1925. The clay products group showed a gain of 8.6 per cent in aggregate value and other structural materials, including cement, lime, stone, sand and gravel, advanced 5.2 per cent above the figures for the preceding year. Cement output showed a gain of 7.2 per cent, but due to the lower prices prevailing in 1926 the total value was 7.3 per cent under the figures for 1925. Lime production showed a growth of 15.2 per cent in quantity and 11.6 per cent in value. Production of sand and gravel and building stone also reflected the greater building programs carried on throughout the year.

Building and construction contracts awarded in Canada during 1926, as reported by the MacLean Building Review, were valued at \$372,947,900, an advance of 25·16 per cent over the total of 1925. The classification of these contracts was as follows: residential projects, \$109,562,-400; business, \$112,408,900; industrial, \$79,689,700; and engineering, \$71,286,900. Quebec was the leading province, mainly because of increases in industrial, business and residential building. Ontario followed with a 14·6 per cent higher total than in 1925. Of the other provinces, Prince Edward Island, New Brunswick, Manitoba, Saskatehewan, Alberta and British Columbia showed increases, while there was a decrease of about 17·1 per cent in Nova Scotia.

Costs of building materials in Canada during 1926 were very stable. The Bureau of Statistics index number of prices applying to 32 building and construction materials (base 100 in 1913) showed only a slight variation during the year, ranging from 152·3 in January, the maximum for the year, to 147·7 in December.

Bentonite

A shipment of 30 tons of bentonite valued at \$150, was made in 1926 from a deposit near Princeton, B.C. Production of this item has been included in the section on "Clay Products."

Cement

Continuing the increase in cement production recorded in 1925, the year under review showed a further advance to a new high record for the industry in Canada. Shipments during the year amounted to 8,707,021 barrels valued at \$13,013,283.

The provinces of Quebec, Ontario, Manitoba, Alberta and British Columbia are the sources of the Canadian production. Nova Scotia was formerly a producer of puzzolan cement from blast furnace slag, but this has been discontinued in recent years. Quebec mills occupied the leading position in 1926, with a sales total of 3,727,377 barrels, Ontario mills came next with 3,398,860 barrels; the Manitoba sales were 50·2 per cent higher in 1926 than in 1925 and amounted to 612,155 barrels. British Columbia also reported an appreciable advance to a total of 544,863 barrels, and Alberta mills took part in the general augmentation of production with an increase of 7·05 per cent.

The average selling price per barrel, f.o.b. plant, was as follows: Quebec, \$1.22; Ontario, \$1.41; Manitoba, \$2.57; Alberta, \$2.06; and British Columbia, \$2.27.

Portland cement to the amount of 21,114 barrels valued at \$77,866 was imported into Canada during 1926. The average value of the imported cement in 1926 was \$3.68 per barrel, while in the preceding year the average was \$2.89. Exportations of this commodity were recorded at 285,932 barrels invoiced at \$358,231.

Summary Statistics of the Cement Industry in Canada, 1925 and 1926

- Personal	192	25	1926		
	Barrels Value		Barrels	Value	
		8		8	
Output Sold or used Stocks, December 31.	7,869,946 8,116,597 1,274,923	14,016,704	9.041,411 8,707,021 1,609,313	13,013,283	
Imports— Portland. Manufactures. Exports. Apparent consumption.	21,849 997,915 7,140,531	63,967 13,753 1,498,495	21,114 285,932 8,442,203	77, 866 18, 813 358, 231	

Sales of Cement in Canada by Provinces, 1925 and 1926

Province	192	5	1926		
	Barrels	Value	Barrels	Value	
•		8		8	
Quebec Ontario Manitoba Alberta British Columbia	3,365,802 3,462,358 407,395 395,857 485,185	5.689,901 5,253,911 1,037,929 913,529 1,151,344	3,727,377 3,398,860 612,155 423,766 544,863	4,535,386 4,792,857 1,572,401 873,621 1,239,018	
Canada	8,116,597	14,016,704	8,707,021	13,013,283	

Clay Products

An advance of 8.69 per cent in the value of production of Canadian clay and clay products was recorded in 1926. The value of this year's shipments was reported at \$10,357,323; in 1925 the value of these products was \$9,529,691. Increases were recorded in almost all provinces producing during the year.

Imports of clay, clay products and similar materials were valued at \$8,196,014 in 1926, and the Canadian exports under this heading were invoiced at \$224,916.

Production of Clay Products in Canada by Provinces, 1925 and 1926

Province		1926
Prince Edward Island. Ova Scotia Cwe Brinswick Quebec Intario Annitoba asskatrhewan Ulberta Sritish Columbia	\$ 3,020 442,690 69,473 2,426,887 5,195,084 173,794 95,952 618,860 523,931	\$62.66 75.85 2.702.29 5.356.46 248.49 214.11 804.93 592.49
Canada	9,529,691	10.357,32

Production in Canada, Imports and Exports of Clay and Clay Products, 1925 and 1926

	19	1925		1926	
Kind	Quantity	Total selling value	Quantity	Total selling value	
PRODUCTION (SALES)-		s		5	
Brick: Soft mud process [acc	27,701	521,739	28,235	556,57	
Common M	51.214	753,970	78, 158	1,145,49	
Stiff mud process { nee	93,903 116,105	1,883,856 1,635,257	101,028 94,046	2,146,36	
Dry press [Face	37, 201	809,504	30,423	1,624,05 651,28	
Common. M	22.053	270,135	19,450	269,59	
Fancy or ornamental brick (including special shapes,	20,000		30,100	200,00	
embossed and enamelled brick). M Sewer brick. M	524	20,320	482	24,05	
Sewer brick M	2,485	52.382	6,546	117.19	
Paving brick Paving brick M Fireclay Uireclay Ui	6.197	305,332	122	5,04 192,27	
Fireclay tons	623	6,544	2,813	23,25	
Fireclay blocks and shapes	-	36,567	-	54,00	
Structural tile: Hollow blocks (including fireproofing and					
Poofing tile tons	115,576	1,093,397	141,909	1,313,70	
logratile (quarries) So ft	78,479 140,927	6,323 28,338	17,018 195,011	1,56	
Ceramic or glazed floor and wall tile.	140.321	40,000	100,011	94	
Drain tile	14,552	401,503	14,258	366,01	
Sewer pipe (including copings, flue linings, etc.) tons	73,791	I,440,269	75.1196	1,480,77	
Pottery, glazed or unglazed. Other products—Bentonite. tons		267,255	~	320, 13	
Other products Denounte			30	15	
Total	-	9,529,691	-	10,357,32	
MPORTS					
Buth brick Buthling brick M	-	695	-	0.	
Building brick. M Building blocks	5.489	125,565	4,157	93,33	
Clays—	-	81,873		77, 23	
China Cwt.	363,890	195.032	360,546	200, 90	
FireCwt.	824,774	186,733	937,487	193,74	
Pipe	-	1,668	-	1,32	
Zirconium silicate			-	2.70	
Other clays Drain tile, unglazed		64,498 8,622	40	81,25 2,54	
Drain and sewer pipe		68,960		05,48	
Insultors, etectric, porcelain	-	-		305,77	
Earthenware and chimware.	-	4,558,194	-	4,647,39	
Brick, lire, other, valued at not tess than \$100 per M, rectangular shaped: the dimensions of each not to exceed 125 cubic inches					
for use exclusively in the construction or repair of a furnace.					
kiln, etc	-	27, 113		41,69	
Brick, fire, n.o.p., for use exclusively in the construction or repair		211111		** 1 13 (1	
		000 000			
Firebrick non	-	861,696	-	1,023,85	
Firebrick, chrone		194,060		156,78 50,20	
O is turnace, kin or other equipment of a manuacturing establishment. Firebrick, n.o.p. Firebrick, chrome. Magnesite brick. Silien brick. Paving brick. M Other clay manufactures. M Other clay manufactures.		35,277 93,840		66,429	
Silien brick	-	185,356	-	263, 293	
Paving Drick M	1.563	39,901	2,678	72,989	
Other caty manufactures	-	771,001		848,989	
Total	-	7,478,084		8,196,01	
EXPORTS—					
Building brick	1,758	22,027	1,845	25,909	
I numanulactured Cost	7,325	8,496	1.6 62 9	9 000	
Manufactures	4,828	85,383	14,537	3,898 61,523	
Earthenware	-	16,879	_	12,764	
Unmanufactured Cwt. Manufactures. Earthenware. Porcelain insulators.	_	58,033	_	120,823	
Total		478 HEH		994 614	
	-	228,N18	PF PF	221,916	

Fuller's Earth

In the first half of 1927, samples were taken for investigation from a deposit of fuller's earth found in the vicinity of Copper Creek, near Red Lake, B.C.—It is reported that the material found occurs in abundance.

Kaolin

There was no production of kaolin reported in 1926.

From a deposit near Williams Lake in British Columbia, shipments were made in 1926 of a refractory material known locally as kaolin, but described merely as "silicate of alumina" by the Provincial Mineralogist. Shipments of this material amounting to 129 tons valued at \$1,900 were made to Vancouver, B.C., where some of the material was used in the manufacture of plastic firebrick, and refractory cements, and some was used directly as fireclay.

For this reason production figures for this item have been included in the section of "Clay Products" in this report.

In previous years some kaolin was produced at St. Rémi d'Amherst, but there has been no production from this source since 1923.

Lime

Production of lime in Canada during 1926 was reported at 11,825,736 bushels with a valuation of \$3,781,484. The year's production consisted of 9,945,336 bushels of quicklime and 65,814 tons of hydrated lime. In 1925 the total production was 10,256,542 bushels worth \$3,387,652. Increases in the total quantity produced were general throughout the producing provinces.

Canadian operators received an average of 30 cents per bushel for quicklime and \$11.59 per ton for hydrated lime.

Lime importations into Canada decreased during the year under review, when 110,509 bushels were imported with a value of \$42,855. Exports were recorded at 534,618 bushels at \$344,616.

Production of Lime in Canada by Provinces, in 1926

	Quicklime		Hydrated Lime		Total value	
Province	Quantity	Value	Quantity	Value	TOTAL VALUE	
	Bushels	\$	Tons	\$	8	
Nova Scotia New Brunswick Quebec Ontario. Minitoba Alberta British Columbia	446,626 477,226 2,309,000 5,402,251 498,875 108,309 503,033	56,777 196,477 667,480 1,593,468 147,401 39,517 317,733	251 11.922 39.217 6,528 7.896	3,000 98,636 457,978 103,868 99,149	59,777 190,477 766,118 2,051,446 251,269 39,517 416,882	
Total for 1926	9,945,336	3,018,853	65,814	762,631	3,781,484	
Total for 1925	8,539,399	2,794,765	69,459	682,887	3,387,653	

Production, Imports and Exports of Lime, 1925 and 1926

	1925		1926	
	Bushels	Value	Bushels	Value
		8		8
Production Imports Exports	10,256,542 134,314 465,315	3,387,052 47,639 312,168	11,825,736 110,509 534,618	3,781,48 42,85 344,61

Sand-Lime Brick

In continuance of the custom to include in all reports on the mineral production of Canada, a reference to the production of sand-lime brick, a few notes covering the information at hand are given below.

The total shipments of sand-lime brick in Canada during 1926 were 49,269 thousand valued at \$589,447, as compared with 63,869 thousand at \$781,555 in the preceding year. As usual, Ontario was the principal producer; the eight plants reporting in this province accounting for practically the entire Canadian output.

Sand and Gravel

Sand and gravel production in Canada during 1926 totalled 17,112,798 tons with a valuation of \$4,941,434, as compared with 11,018,647 tons valued at \$3,220,410 shipped in 1925.

Imports of sand and gravel into Canada during the year under review were recorded at 254,935 tons worth \$212,038, while silica sand imported for the manufacture of glass and carborundum and for use in foundries amounted to 155,109 tons invoiced at \$372,488. Corresponding data in 1925 were, for the former material, 282,203 tons at \$184,000 and the latter material 143,502 tons at \$353,237. A considerable advance was shown in the exports of sand and gravel in 1926, when 907,935 tons appraised at \$278,278 were shipped from Canada as against a total of \$64,672 tons worth \$198,485 exported in 1925.

Slate

There have been no shipments of Canadian slate reported since 1923. During that year crushed green and red slate, amounting to 1,836 tons valued at \$17,289, was produced from deposits in Melbourne township, Quebec. In 1926 interest was renewed in the deposits of slate in Kings county, Nova Scotia.

The imports of roofing slate were slightly higher than in 1925 and totalled 4,963 squares valued at \$57,418.

Production in Canada and Imports of Slate, 1925 and 1926

	192	5	1926		
	Quantity	Value	Quantity	Value	
		\$		8	
ROD UCTIONTons	-	-	-		
MFORTS— ROOFING Squares School-writing Pencils Mantles and manufactures of slate, n.o.p.	4,411	50,331 102,878 4,810 47,488	4,963	57,41 92,76 6,36 61,56	
Total	-	205,507		218, 1	

Stone

Production of stone in Canada during 1926 of 6,397,590 tons, valued at \$7,865,874, was considerably higher than the figures for the 1925 shipments of 5,706,119 tons worth \$7,464,777. Ontario was the leading producer, accounting for 56.7 per cent of the total quantity. Quebec followed with 36.0 per cent. The other provinces in order of tonnage produced, were: British Columbia, Manitoba, Nova Scotia, New Brunswick and Alberta.

The kinds of stone quarried included granite (trap-rock, syenite and other igneous rock), limestone, sandstone and marble.

The quantities of limestone quarried and used in the manufacture of lime by the operator have not been included under this industry; only the quantity and value of lime are recorded in order to avoid duplication of entries.

Production of Stone in Canada by Provinces, 1925 and 1926

Province	19	25	1926	
	Tons	Value	Tons	Value
Nova Scotia New Brunswick. Quebec Ontario. Manjtoba Alberta. British Columbia	102,125 25,391 2,242,916 3,022,712 52,770 3,979 256,226	\$ 134,686 124,713 3,885,455 2,817,333 188,486 6,868 337,196	92,315 19,108 2,305,734 3,622,042 101,571 3,759 253,061	\$ 150,79 99,54 3,728,22 3,157,28 357,38 13,89 358,24
Canada	5,706,119	7,464,777	6,397,593	7,865,87

Imports into Canada and Exports of Stone, by Kinds, 1925 and 1926

	1925		1929	
	Tons	Value	Tons	Vnlue
		8		\$
Imports—				
Building stone, other than marble or granite, sawn on more than two sides, but not sawn on more than four sides. Building stone other than marble or granite, planed, turned, cut	285	4.143	202	4,223
or further manufactured than sawn on four sides	231	7.917	591	28,561
I lagstone, granite, rough sandstone, and all building stone, not		134, 170	_	187,055
I lagstone and building stone, other than marble or granite, sawn		97,875	_	95,790
Granite, sawn only	-	2,255	-	6,189
Granite, manufactures of, n.o.p.	- 1	158,614	-	175,651
Paving blocks	-	67.507	-	91,039
Marble, rough, not hammered or chiselled	-	174.029		186,462
Marble, sawn or sand rubbed, not polished		40.293	_	101,748
Refuse stone	160.997	100.514	334.832	220,177
Manufactures of stone, n.o.p.	-	37.645	-	47,719
Total	40	824,992	-	1,144,614
¥.				
Exports— Crushed	42.518	81.764	101,117	134,755
Granite and marble, unwrought	3,430	36,552	3,553	38,828
reestone, limestone, and other building stone, unwrought	4,166	14,389	2.853	3,915
Dressed	-	5,687	-	17.090
Total	-	138,392	60	194,588

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