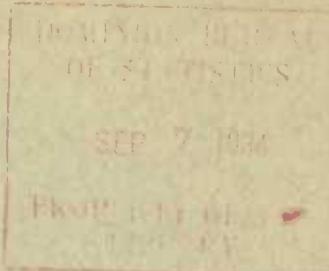


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DOMINION BUREAU OF STATISTICS

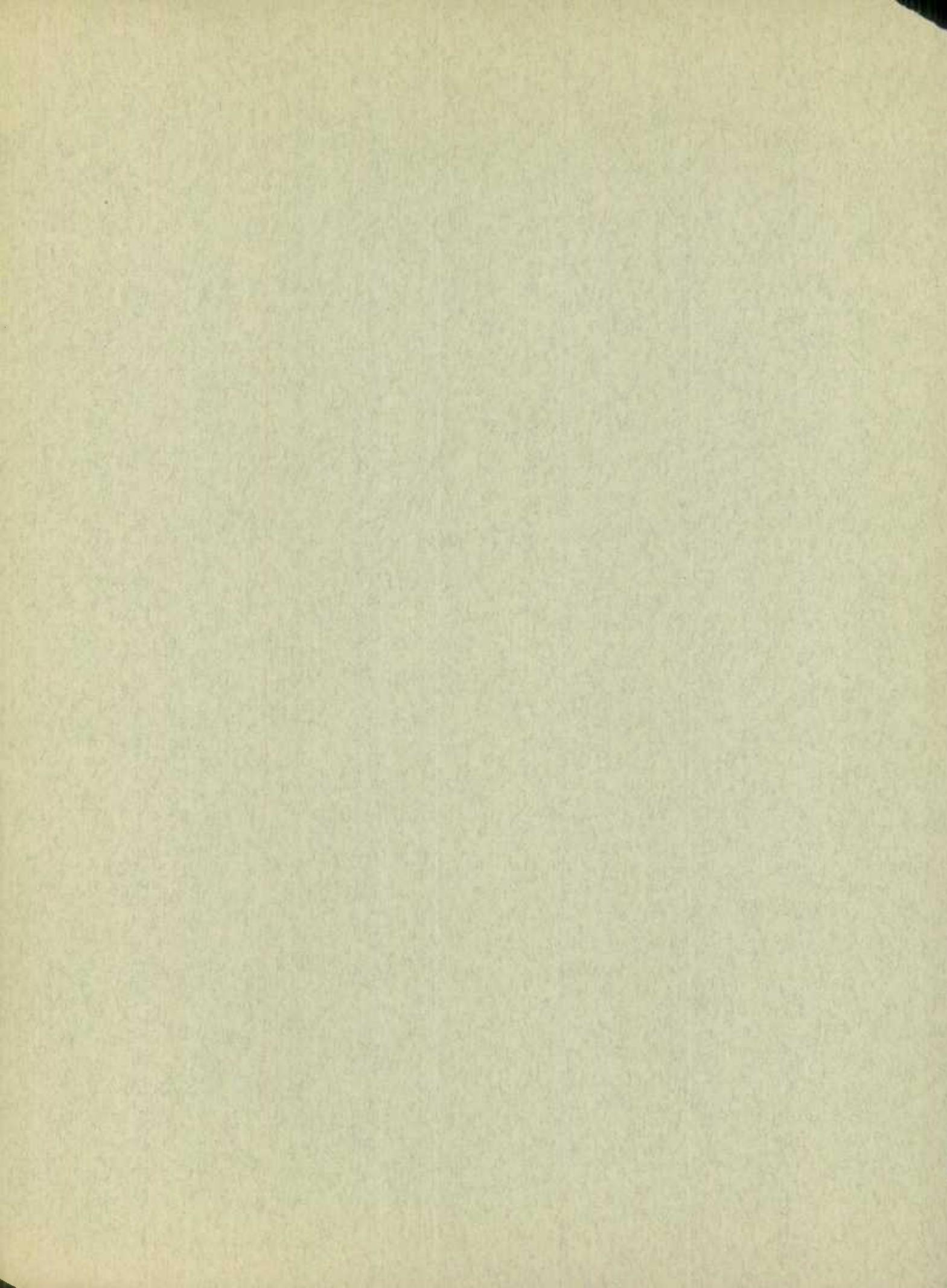
REPORT ON THE
MINERAL PRODUCTION OF
CANADA

DURING THE SIX MONTHS ENDING
JUNE, 1934

(With Revised Statistics for Calender Year 1933)

Published by Authority of the HON. H. H. STEVENS, M.P.,
Minister of Trade and Commerce.

OTTAWA
1934



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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)
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PRELIMINARY REPORT ON THE MINERAL PRODUCTION OF CANADA DURING THE SIX MONTHS
ENDING JUNE 30, 1934.

Canada's mineral production during the first six months of 1934 showed remarkable improvement over the same period of the preceding year. Gains were general in each group, metals, fuels, non-metallic minerals other than fuels, and structural materials.

The total value of the mineral production for the Dominion during the period under review totalled \$131,942,180 as against \$90,647,151 during the six months ending June 30, 1933, an increase of 45 per cent. These total production values include the estimated difference between the value of gold computed at the standard price - \$20.671834 per fine ounce - and the value of gold computed at the average price per fine ounce in Canadian funds.

METALS

Metals made magnificent advances. Total production was valued at \$94,385,444 as against \$59,444,773 for the same period of 1933, an increase of 59 per cent. All metals, except arsenic and the quantity of gold produced, showed substantial advances. Gold output was only one per cent less than in the first six months of 1933, due to the mining of lower grade ores by some of the larger companies, the ore reserves of which were considerably enlarged because of the increased price now obtainable for this metal. The average price of gold in Canadian funds during the first six months of 1934 was \$34.67 per fine ounce as against \$25.75 per fine ounce during the first six months of 1933. By applying these unit prices, Canada's gold production was valued at \$49,862,602 as against \$37,463,958, an increase of 33 per cent. This record price for gold intensified the search for new mines and many properties are being brought to the production stage as rapidly as possible.

Canadian producers of primary gold, especially those operating on low grade ore, have, in common with those of other countries, benefited greatly since 1931 from the pronounced increase in the price of the precious metal, an increase realized in an era of peculiar economic conditions which were not only complex in nature but international in scope. The more outstanding events associated with the recent rise in the price of gold include the suspension of specie payments by Great Britain on September 21, 1931; the direct control and licensing of Canadian gold exports by the Canadian government; the purchase by the Canadian government of all new gold bullion produced in the Dominion with the payment to the miner of equalization exchange; the departure of the United States from the gold standard on April 19, 1933, and the announcement on January 31, 1934, by President Roosevelt

that thereafter the United States Treasury would purchase gold from any quarter at not less than \$35 per fine ounce and would be empowered by United States Congress to offer, if necessary, up to \$41.34 an ounce. The weight of the new United States gold dollar is 15 5/21 grains, nine-tenths fine, as compared with the former gold dollar of 25.8 grains, nine-tenths fine. The new dollar contains 1/35 of an ounce of gold, or in other words, the ounce of fine gold is equivalent to \$35.

Nickel output was considerably greater. During the half-year production totalled 63,315,706 pounds valued at \$15,016,662 as against 22,802,434 pounds worth \$5,149,355 during the first six months of 1933.

Copper was produced in Quebec, Ontario, Manitoba, Saskatchewan and British Columbia. Output totalled 177,052,390 pounds worth \$14,048,672 as compared with 129,096,724 pounds valued at \$8,332,600 produced during the first six months of 1933, a gain of 37 per cent in quantity and 69 per cent in value.

Zinc output included the refined zinc made at the smelters of the Consolidated Mining and Smelting Co. Ltd., at Trail, B.C., and the Hudson Bay Mining & Smelting Co. Ltd., Flin Flon, Manitoba, and zinc in ores exported by the Britannia and Monarch mines of British Columbia. Production totalled 137,086,919 pounds valued at \$4,573,219 and marked an increase of 61 per cent in quantity and 88 per cent in value over the same period of 1933.

Lead production, 99 per cent of which originates in the mines of British Columbia, increased 24 per cent in quantity to 160,551,755 pounds and 49 per cent in value to \$4,137,419. A small amount was recorded in ores exported from the Mayo camp in the Yukon Territory.

Silver output was 8 per cent greater and the total value 40 per cent in excess of that produced during the period January 1st to June 30, 1933. The average price of silver during the first six months of 1933 was 34.7507 cents per fine ounce, in Canadian funds, based on the New York market. During the first half-year of 1934 the average price was 45.005 cents per fine ounce and the total value of the Canadian output was \$3,551,093. Silver occurs in association with lead-zinc ores, cobalt ores, copper ores, and gold ores, and the increased price was of considerable importance to practically all Canadian metal mines.

At the London Monetary and Economic Conference of July, 1933, important action was taken with a view to mitigating fluctuations in the price of silver. The Monetary and Financial Sub-Commission unanimously adopted a resolution recommending to all Government parties to the Conference that, among other things, they refrain from further debasement of their silver coinage below a fineness of 800/1000 and that, where possible, they substitute silver coins for low-value paper currency.

In addition to the above recommendations of general applicability, definite agreements were entered into between the chief silver holding countries and the main silver producing nations. Under the Eight-Power Agreement, signed July 22, 1933, India and Spain agree to limit total sales during the ensuing four years to 140 million and 20 million ounces respectively, while China undertakes during the same period to cease entirely selling silver from demonetized coins. On the other hand, the chief producing countries, Australia, Canada, Mexico, Peru and the United States, agreed not to sell any silver but to make aggregate purchases from (or otherwise arrange for withholding from market) domestic production totalling 35 million ounces annually. Under a separate Five-Power Agreement, of the same date, Canada accepted the quota of 1,671,802 ounces as her share of the total

amount to be so purchased (or otherwise withheld from sale). The action of the delegate of Canada in signing this agreement at London was approved by Parliament on February 26, 1934.

Silver to the above amount is, in the first instance, to be purchased by the Minister of Finance from domestic mine production at the market price and, in accordance with amendment to the Dominion Notes Act of June 26, 1934, will be held as additional security for the redemption of Dominion Notes. Subsequent instalments for the years 1935, 1936 and 1937 will be purchased by the Bank of Canada when directed to do so by the Minister of Finance. The silver thus purchased under the agreement may, by Section 26 of the Bank of Canada Act, constitute a part of the reserves which the Bank is to hold against its outstanding note and deposit liabilities.

The first step toward implementing the silver purchase agreement has recently been taken by the Minister of Finance in his notice calling for tenders as of August 20, 1934, for the delivery of silver bullion up to an amount of 250,000 ounces.

Canada has become of increasing importance as a producer of the metals of the platinum group. These metals occur in association with the nickel-copper ores of the Sudbury district, and are refined at Acton, near London, England. Production during the period under review totalled 88,054 fine ounces worth \$2,629,655 as against 12,919 fine ounces worth \$344,753 during the first six months of 1933.

Cobalt production showed a substantial increase; the value of cadmium production was more than double that of the same period in the previous year and bismuth output was also higher. The Port Hope radium refinery of the Eldorado Gold Mines Limited operated continuously during the period but data on production are not available. Tellurium was produced for the first time in Canada by the Ontario Refining Company Ltd., Copper Cliff, Ontario. Selenium is also produced by this company.

NON-METALS (FUELS)

The production of coal in Canada during the six months ending June, 1934, advanced 23.6 per cent to 6,129,899 tons from the output in the corresponding period of 1933. Nova Scotia, Manitoba, Alberta and British Columbia mines reported increased production in 1934. On the other hand, New Brunswick, Saskatchewan and the Yukon operators mined less coal than in the first six months of 1933.

Imports of coal into Canada totalled 5,200,923 tons or 32.3 per cent above the tonnage imported during the period January to June, 1933. Anthracite coal receipts were higher at 1,485,296 tons. The United States supplied 60.5 per cent of the anthracite importations during the half-year and Great Britain the remainder. A 34.3 per cent increase was recorded in bituminous coal imports; during the first six months of the current year 3,714,500 tons were brought into Canada as compared with 2,766,050 tons in the corresponding period of 1933. Lignite imports from the United States amounted to 1,127 tons.

Exports of Canadian coal were slightly below the total for the first half of 1933; the quantities were 117,635 tons and 118,441 tons, respectively. Nova Scotia, New Brunswick and Quebec exported 74,150 tons during the period under review and the western ports, 43,485 tons.

Canada produced 12,664,528 thousand cubic feet of natural gas during the first six months of 1934 as compared with 13,277,896 thousand cubic feet a year ago. Natural gas produced from Alberta wells and used during the six months totalled 8,046,463 thousand cubic feet. Ontario's output amounted to 4,216,000 thousand cubic feet. Wells in the Stony Creek field, New Brunswick, produced 401,765 thousand cubic feet.

Crude petroleum output during the six months ending June, 1934, advanced 37.3 per cent to 717,347 barrels from the total for the corresponding period of 1933. Production from Alberta wells rose 43 per cent to 642,700 barrels and from New Brunswick wells 19 per cent to 5,816 barrels. Ontario's output declined 0.9 per cent to 67,716 barrels. Wells near Fort Norman, North West Territories, produced 1,115 barrels.

Imports of crude petroleum into Canada during the period totalled 12,233,103 barrels, made up of 8,931,752 barrels from the United States, 1,862,164 barrels from Colombia, 1,237,636 barrels from Peru, 141,634 barrels from Venezuela, and 59,917 barrels from Trinidad.

NON METALS (OTHER THAN FUELS)

It is very encouraging to record that the production of other non-metallic minerals, with the exception of soapstone, sodium carbonate and silica brick, showed increases over the corresponding period of a year ago. The value of the output of this group totalled \$4,560,668 as compared with \$3,409,601.

Chief among these other non-metals produced in Canada is asbestos. The entire Canadian production of this mineral originates in the eastern townships of the province of Quebec. Output for the first six months of 1934 totalled 64,512 tons worth \$2,047,757, an increase of 35 per cent in quantity and 42 per cent in value over the corresponding period of a year ago.

Salt production at 153,641 tons worth \$993,324 increased 20 per cent in quantity and 4 per cent in value. Ontario wells produced 88 per cent of the total for the Dominion. The province of Nova Scotia, where it is recovered by mining methods, is the next largest producer; while wells in Manitoba and Saskatchewan yielded small amounts.

Gypsum production at 158,595 tons worth \$339,016 marked an increase of 64 per cent in quantity and 26 per cent in value. Gypsum is mined in the provinces of Nova Scotia, New Brunswick, Ontario, Manitoba and British Columbia.

Sulphur, computed as the sulphur contained in sulphuric acid made at the Copper Cliff and Trail smelters from waste smelter gases and sulphur in pyrites shipped, was valued at \$245,263, an increase of 13 per cent.

Output of magnesitic dolomite rose in value to \$257,592 from \$100,210 during the first six months of 1933.

Sodium sulphate, quartz, feldspar, mica, graphite, iron oxides and talc were the other principal items in the non-metallic field, all of which showed an increase in output. Details regarding these products are given in the tables.

STRUCTURAL MATERIALS

In half-yearly reports preceding that for the six months ending June, 1933, no data on production of the structural materials were given, since it was felt that the figures might be misleading, as the greater part of construction operations in Canada are carried on during the summer months and figures at the end of June would not truly represent half of the yearly total. Monthly statistics of production are now being collected for cement, clay products and lime, and in order that complete half-yearly production data may be published, figures for stone and sand and gravel have been estimated. Sales of clay products and cement show an increase of about 23 per cent. Lime production increased 46 per cent in value, but as a considerable part of the lime output is used for chemical purposes the increase in output of this material could not be used as a basis of estimate for the output of stone and sand and gravel. Accordingly the stone and sand and gravel production was estimated to be about 20 per cent in excess of the same period of the preceding year.

The total production of the items comprising the structural materials group was valued at \$7,474,540 as against \$5,977,842 for the same period of 1933, an increase of 25 per cent.

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Canada's mining activities have made a most satisfactory increase during the first six months of 1934. The increase is apparent in all groups. Not only does the miner and mine operator benefit by these conditions but the manufacturer who must supply the machinery and other commodities necessary in the production of metals and minerals. A large percentage of Canadian mineral products are exported. Thus the mining industry of Canada is at the present time playing a most important part in the rehabilitation of the general economic situation.

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AVERAGE MONTHLY PRICES OF GOLD, SILVER, COPPER, LEAD AND ZINC IN CANADIAN FUNDS
 JANUARY 1 TO JUNE 30, 1933 and 1934.

Month	G O L D		S I L V E R		C O P P E R	
	Dollars per fine oz.		Cents per fine oz.		Cents per lb.	
	1933	1934	1933	1934	1933	1934
January	23.64	33.05	29.0449	44.39405	5.70877	8.0611
February	24.74	35.29	31.2028	45.61228	5.95804	8.1536
March	24.78	35.08	33.4801	45.97363	5.97472	8.09569
April	25.33	34.93	36.243	45.08512	6.3865	8.28166
May	27.75	34.94	38.883	44.14640	7.6631	8.141194
June	28.24	34.73	39.6501	44.82065	8.4467	7.9073
AVERAGE	25.75	34.67	34.7507	45.0053	6.68627	8.10676

	L E A D		Z I N C	
	Cents per lb.		Cents per lb.	
	1933	1934	1933	1934
January	1.79588	2.5586	2.46955	3.3246
February	1.90896	2.63723	2.5376	3.3649
March	1.9582	2.6319	2.7035	3.35915
April	2.055	2.6427	2.826	3.42775
May	2.4287	2.516175	3.1134	3.352
June	2.7408	2.4734	3.4999	3.1865
AVERAGE	2.14792	2.5766	2.8583	3.3358

MINERAL PRODUCTION OF CANADA FOR THE PERIODS JANUARY 1 TO JUNE 30, 1933 and 1934.

	1 9 3 3		1 9 3 4	
	January 1 to June 30		January 1 to June 30	
	Quantity	Value	Quantity	Value
METALLICS				
Arsenic (As ₂ O ₃)	lb.	639,902	26,723	621,019
Bismuth	lb.	74,181	70,151	79,525
Cadmium .....	\$	...	25,538	...
Cobalt	lb.	193,150	280,359	314,527
Copper	lb.	129,096,724	8,332,600	177,052,390
Gold	fine oz.	1,454,911	30,075,678	1,438,206
Estimated exchange equalization				
on gold produced .....	\$	...	7,388,280	...
Lead	lb.	128,913,575	2,768,934	160,551,755
Nickel	lb.	22,802,434	5,149,355	63,315,706
Palladium, Rhodium, Iridium, etc.	fine oz.	7,339	166,751	38,624
Platinum	fine oz.	5,580	178,002	49,430
Selenium	lb.	8,600	17,200	Data not published
Silver	fine oz.	7,307,948	2,539,563	7,890,440
Titanium	ton	...	...	2,023
Zinc	lb.	84,863,001	2,425,639	137,086,919
TOTAL .....	\$	...	59,444,773	...
				94,335,444

MINERAL PRODUCTION OF CANADA FOR THE PERIODS JANUARY 1 TO JUNE 30, 1933 and 1934.
(concluded)

	1933		1934	
	January 1 to June 30		January 1 to June 30	
	Quantity	Value	Quantity	Value
		\$		\$
<u>NON-METALLICS</u>				
<u>Fuels</u>				
Coal	ton	4,962,357	15,094,263	6,129,899
Natural gas	M cu. ft.	13,277,896	5,400,442	12,664,528
Peat	ton	380	1,140	...
Petroleum, crude	bbl.	522,562	1,319,090	717,347
TOTAL .....	\$	...	21,814,935	...
				25,521,528

Other Non-Metallics

Asbestos	ton	47,712	1,437,151	64,512	2,047,757
Bituminous sands	ton	122	487	128	511
Diatomite	ton	502	10,066	755	15,110
Feldspar	ton	3,130	38,570	5,788	57,423
Fluorspar	ton	...	...	38	598
Graphite	ton	104	5,739	756	32,879
Gypsum	ton	97,025	269,940	158,595	339,016
Iron oxides (ochre)	ton	576	7,710	1,178	25,220
Magnesium sulphate	ton	...	...	80	160
Magnesitic-dolomite .....	\$	...	100,210	...	237,592
Mica	lb.	218,000	9,354	836,218	49,695
Mineral waters	Imp. gal.	16,545	1,675	18,403	1,915
Phosphate	ton	...	...	81	683
Quartz	ton	66,216	115,684	100,121	186,603
Salt	ton	127,530	957,213	153,641	993,324
Silica brick	M	...	...	850	28,884
Soapstone .....	\$	...	19,994	...	18,508
Sodium carbonate	ton	227	2,476	162	1,489
Sodium sulphate	ton	...	157,939	27,689	209,409
Sulphur (x)	ton	24,543	216,873	27,252	245,263
Talc	ton	6,389	58,520	6,740	68,629
TOTAL .....	\$	...	3,409,601	...	4,560,668

STRUCTURAL MATERIALS

Clay products .....	\$	...	858,903	...	1,056,540
Cement	bbl.	1,088,537	1,676,347	1,355,360	2,045,000
Lime	ton	125,679	942,592	180,376	1,373,000
(a) Stone and sand and gravel .....	\$	...	2,500,000	...	3,000,000
TOTAL (a) .....	\$	...	5,977,842	...	7,474,540
GRAND TOTAL .....	\$	...	90,647,151	...	131,942,180

(x) Sulphur content of pyrites shipped and estimated sulphur contained in sulphuric acid made from waste smelter gases.

(a) Estimated.

MINERAL PRODUCTION OF CANADA (EXCLUSIVE OF CLAY PRODUCTS AND OTHER

	Nova Scotia	New Brunswick	Quebec
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METALLICS

Arsenic (As ₂ O ₃)	lb.
	\$
Bismuth	lb.
	\$
Cadmium	\$
Cobalt	lb.
	\$
Copper	lb.	32,933,176
	\$	...	...	2,669,892
Gold	fine oz.	858	...	194,587
	\$	17,737	...	4,022,470
Estimated exchange equalization on gold produced	\$	12,010	...	2,723,861
Lead	lb.	...	...	...
	\$
Nickel	lb.	...	...	...
	\$
Palladium, Rhodium, Iridium, etc. fine oz.		...	...	...
	\$
Platinum	fine oz.	...	...	...
	\$
Silver	fine oz.	37	...	225,953
	\$	17	...	101,690
Titanium	ton	...	...	2,023
	\$	...	...	14,171
Zinc	lb.	...	...	...
	\$
TOTAL METALLICS	\$	29,764	...	9,532,084

NON-METALLICS

Fuels

Coal	ton	2,872,144	151,662	...
	\$	9,817,971	499,049	...
Natural gas	M cu.ft.	...	401,765	...
	\$	...	196,784	...
Peat	ton	...	...	...
	\$
Petroleum, crude	bbl.	...	5,816	...
	\$	...	11,743	...
TOTAL FUELS	\$	9,817,971	707,576	...

STRUCTURAL MATERIALS) BY PROVINCES, JANUARY 1 to JUNE 30, 1934.

Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	NORTHWEST TERRITORIES	YUKON
621,019	...	...	...	...	...	...
22,336	...	...	...	...	...	...
3,977	...	...	...	75,548	...	...
3,977	...	...	...	106,564	...	...
...	...	...	...	58,740	...	...
314,527	...	...	...	...	...	...
360,334	...	...	...	...	...	...
102,764,315	15,342,100	639,275	...	25,373,524	...	...
8,026,139	1,243,784	51,826	...	2,057,031	...	...
1,040,222	50,927	1,414	135	140,441	...	9,622
21,503,296	1,052,754	29,230	2,791	2,903,173	...	198,904
14,561,201	712,885	19,793	1,889	1,965,917	...	134,691
11,437	...	...	...	159,581,779	...	958,539
295	...	...	...	4,112,422	...	24,702
63,315,706	...	...	...	...	...	...
15,016,662	...	...	...	...	...	...
38,624	...	...	...	...	...	...
756,258	...	...	...	...	...	...
49,410	...	...	...	20	...	...
1,872,639	...	...	...	758	...	...
2,642,037	450,289	18,646	11	4,154,910	...	398,557
1,189,049	202,653	8,392	5	1,869,917	...	179,370
...
...
...	20,753,100	864,720	...	115,469,099	...	...
...	692,323	28,847	...	3,852,049	...	...
63,312,186	3,904,399	138,088	4,685	16,926,571	...	537,667

...	2,500	375,242	2,029,544	698,652	...	155
...	6,102	496,674	5,258,253	2,508,955	...	547
4,216,000	300	...	8,046,463	...	...	...
2,649,000	90	...	2,209,762	...	...	...
...
...
67,716	...	...	642,700	...	1,115	...
141,676	...	...	1,719,347	...	5,575	...
2,790,676	6,192	496,674	9,187,362	2,508,955	5,575	547

MINERAL PRODUCTION OF CANADA (EXCLUSIVE OF CLAY PRODUCTS AND OTHER

	Nova Scotia	New Brunswick	Quebec
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OTHER NON-METALLICS

Asbestos	ton	64,512
	\$	2,047,757
Bituminous sands	ton
	\$
Diatomite	ton	753
	\$	15,050	...	...
Feldspar	ton	...	...	3,434
	\$	...	...	34,117
Fluorspar	ton	...	...	...
	\$
Graphite	ton	...	...	...
	\$
Gypsum	ton	127,791	7,876	...
	\$	149,818	37,412	...
Iron oxides (ochre)	ton	...	...	1,178
	\$	...	...	25,220
Magnesitic-dolomite .....	\$	...	...	237,592
Magnesium sulphate	ton	...	...	...
	\$
Mica	lb.	...	...	344,801
	\$	...	...	39,281
Mineral waters	Imp.gal.	...	...	7,203
	\$	...	...	1,169
Phosphate	ton	...	...	81
	\$	...	...	683
Quartz	ton	3,178	...	22,876
	\$	4,579	...	96,489
Salt	ton	18,307	...	...
	\$	88,289	...	...
Silica brick	M	573	...	...
	\$	18,557	...	...
Soapstone .....	\$	...	...	18,103
Sodium carbonate	ton	...	...	...
	\$
Sodium sulphate	ton	...	...	...
	\$
Sulphur (x)	ton	...	...	...
	\$
Talc	ton	...	...	...
	\$
TOTAL OTHER NON-METALLICS	\$	276,293	37,412	2,500,411

(x) Sulphur content of pyrites shipped and estimated sulphur contained in sulphuric acid

(*) Figures for structural materials are not available by provinces.

STRUCTURAL MATERIALS) BY PROVINCES, JANUARY 1 to JUNE 30, 1934. (concluded)

Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	NORTHWEST TERRITORIES	YUKON
• • •	• • •	• • •	• • •	• • •	• • •	• • •
• • •	• • •	• • •	• • •	• • •	• • •	• • •
• • •	• • •	• • •	128	• • •	• • •	• • •
• • •	• • •	• • •	511	• • •	• • •	• • •
• • •	• • •	• • •	• • •	2	• • •	• • •
• • •	• • •	• • •	• • •	60	• • •	• • •
1,958	396	• • •	• • •	• • •	• • •	• • •
21,473	1,833	• • •	• • •	• • •	• • •	• • •
38	• • •	• • •	• • •	• • •	• • •	• • •
598	• • •	• • •	• • •	• • •	• • •	• • •
756	• • •	• • •	• • •	• • •	• • •	• • •
32,879	• • •	• • •	• • •	• • •	• • •	• • •
14,636	4,937	• • •	• • •	3,355	• • •	• • •
66,985	52,604	• • •	• • •	32,197	• • •	• • •
• • •	• • •	• • •	• • •	• • •	• • •	• • •
• • •	• • •	• • •	• • •	• • •	• • •	• • •
• • •	• • •	• • •	• • •	• • •	• • •	• • •
• • •	• • •	• • •	• • •	80	• • •	• • •
• • •	• • •	• • •	• • •	160	• • •	• • •
463,417	• • •	• • •	• • •	28,000	• • •	• • •
9,889	• • •	• • •	• • •	525	• • •	• • •
11,200	• • •	• • •	• • •	• • •	• • •	• • •
746	• • •	• • •	• • •	• • •	• • •	• • •
• • •	• • •	• • •	• • •	• • •	• • •	• • •
• • •	• • •	• • •	• • •	• • •	• • •	• • •
23,477	35,989	• • •	• • •	14,601	• • •	• • •
31,895	35,989	• • •	• • •	17,651	• • •	• • •
134,198	914	222	• • •	• • •	• • •	• • •
889,935	11,109	3,991	• • •	• • •	• • •	• • •
277	• • •	• • •	• • •	• • •	• • •	• • •
10,327	• • •	• • •	• • •	• • •	• • •	• • •
• • •	• • •	• • •	• • •	405	• • •	• • •
• • •	• • •	• • •	• • •	162	• • •	• • •
• • •	• • •	• • •	• • •	1,489	• • •	• • •
• • •	• • •	27,689	• • •	• • •	• • •	• • •
• • •	• • •	209,409	• • •	• • •	• • •	• • •
7,566	• • •	• • •	• • •	19,686	• • •	• • •
75,660	• • •	• • •	• • •	169,603	• • •	• • •
6,716	• • •	• • •	• • •	24	• • •	• • •
68,245	• • •	• • •	• • •	384	• • •	• • •
1,208,632	101,535	213,400	511	222,474	• • •	• • •

e from waste smelter gases.

FINALLY REVISED STATISTICS ON THE MINERAL PRODUCTION OF CANADA, BY

	Nova Scotia	New Brunswick	Quebec	Ontario
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METALLICS

Arsenic (As ₂ O ₃)	lb.	1,468,022
	\$	56,534
Bismuth	lb.	7,580
	\$	3,731
Cadmium	\$
Chromite	ton	30	...
	\$	...	...	343	...
Cobalt	lb.	...	...	...	466,702
	\$	...	...	...	597,752
Copper	lb.	...	...	69,943,882	145,504,720
	\$	...	...	5,214,177	10,118,847
Gold	fine oz.	1,382	...	382,886	2,155,519
	\$	28,568	...	7,914,956	44,558,531
Estimated exchange equalization on gold produced	\$	10,957	...	3,035,583	17,089,312
Lead	lb.	...	...	...	29,910
	\$	...	...	...	692
Nickel	lb.	...	...	...	83,264,658
	\$	...	...	...	20,130,480
Palladium, Rhodium, Iridium, etc.	fine oz.	...	...	...	31,009
	\$	...	...	...	645,043
Platinum	fine oz.	...	...	...	24,746
	\$	...	...	...	856,190
Selenium	lb.	...	...	22,151	26,090
	\$	...	...	16,600	53,745
Silver	fine oz.	104	...	471,419	4,535,680
	\$	39	...	178,351	1,715,975
Zinc	lb.	...	...	...	...
	\$
TOTAL	\$	39,564	...	16,360,010	95,826,832

NON-METALLICS

Fuels

Coal	ton	4,557,590	312,303	...	...
	\$	15,969,793	1,041,744	...	...
Natural gas	M cu.ft.	...	618,033	...	7,166,659
	\$	...	302,706	...	4,523,085
Peat	ton	...	...	681	450
	\$	...	...	2,549	900
Petroleum, crude	brl.	...	8,835	...	136,058
	\$	...	18,111	...	253,486
TOTAL	\$	15,969,793	1,362,561	2,549	4,777,471

PROVINCES, 1933.

Mani- toba	Saskat- chewan	Alberta	British Columbia	Northwest Territories	Yukon	C A N A D A
...	...	...	...	...	...	1,468,022
...	...	...	...	...	...	56,534
...	...	...	70,723	...	...	78,303
...	...	...	77,795	...	...	81,526
...	...	...	78,733	...	...	78,733
...	...	...	...	...	...	30
...	...	...	...	...	...	343
...	...	...	...	...	...	466,702
...	...	...	...	...	...	597,752
38,163,181	3,223,941	...	43,146,724	...	...	299,982,448
2,844,989	240,338	...	3,216,502	...	...	21,634,853
125,310	5,400	324	238,995	...	39,493	2,949,309
2,590,388	111,628	6,698	4,940,465	...	816,392	60,967,626
993,478	42,812	2,569	1,894,792	...	313,108	23,382,611
...	...	...	263,345,776	...	3,099,505	266,475,191
...	...	...	6,298,178	...	74,128	6,372,998
...	...	...	...	...	...	83,264,658
...	...	...	...	...	...	20,130,480
...	...	...	...	...	...	31,009
...	...	...	...	...	...	645,043
...	...	...	40	...	...	24,786
...	...	...	1,400	...	...	857,590
...	...	...	...	...	...	48,221
...	...	...	...	...	...	70,345
1,101,578	114,604	32	6,737,057	23,239	2,204,237	15,187,950
416,758	43,358	12	2,548,817	8,792	833,925	5,746,027
43,516,037	2,789,683	...	152,826,264	...	...	199,131,984
1,397,082	89,563	...	4,906,487	...	...	6,393,132
8,242,695	527,699	9,279	23,963,169	8,792	2,037,553	147,015,593

3,880	927,649	4,718,788	1,382,272	...	862	11,903,344
9,214	1,285,996	12,307,258	5,306,287	...	3,670	35,923,962
600	...	15,352,811	...	...	...	23,138,103
180	...	3,886,263	...	...	...	8,712,234
...	...	...	...	...	...	1,131
...	...	...	...	...	...	3,449
...	...	995,832	...	4,608	...	1,145,333
...	...	2,844,157	...	23,037	...	3,138,791
9,394	1,285,996	19,037,678	5,306,287	23,037	3,670	47,778,436

FINALLY REVISED STATISTICS ON THE MINERAL PRODUCTION OF CANADA, BY

	Nova Scotia	New Brunswick	Quebec	Ontario
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NON-METALLICS - continued

Other Non-Metallics

Asbestos	ton	158,367	...
	\$	5,211,177	...
Barytes	ton	...	...	...	20
	\$	...	...	...	60
Bituminous sands	ton	...	...	...	...
	\$
Diatomite	ton	1,747	...	...	28
	\$	34,940	...	...	1,298
Feldspar	ton	...	...	6,183	4,387
	\$	...	...	59,283	45,350
Fluorspar	ton	...	...	...	73
	\$	...	...	...	1,064
Graphite	ton	...	...	43	362
	\$	...	...	2,222	16,145
Grindstones	ton	21	277	...	...
	\$	868	12,051	...	...
Gypsum	ton	315,948	27,889	...	24,460
	\$	363,528	75,990	...	112,319
Iron oxides (ochre) ..	ton	...	...	4,192	...
	\$	...	...	51,965	...
Magnesitic-dolomite ..	\$	...	...	360,128	...
Magnesium sulphate ...	ton	...	...	...	...
	\$
Mica	lb.	...	...	511,467	1,331,430
	\$	...	...	39,060	9,371
Mineral waters	Imp.gal.	...	...	9,024	29,794
	\$	...	...	3,094	2,347
Phosphate	ton	...	...	105	...
	\$	...	...	805	...
Quartz	ton	1,017	...	28,294	66,562
	\$	1,447	...	109,533	86,146
Salt	ton	34,278	...	...	244,107
	\$	161,889	...	...	1,755,087
Silica brick	M	453	...	...	183
	\$	15,834	...	...	7,351
Soapstone .....	\$	...	...	47,680	...
Sodium carbonate	ton	...	...	...	...
	\$
Sodium sulphate .....	\$	...	...	...	...
Sulphur (x)	ton	...	...	19,167	8,196
	\$	...	...	146,261	81,960
Talc	ton	...	...	...	15,114
	\$	...	...	...	142,134
Volcanic dust	ton	...	...	...	...
	\$
TOTAL	\$	578,506	88,041	6,031,208	2,260,632

(x) Sulphur content of pyrites shipped and estimated sulphur contained in sulphuric

PROVINCES, 1933. (continued)

Mani- toba	Saskat- chewan	Alberta	British Columbia	Northwest Territories	Yukon	C A N A D A
...	158,367
...	5,211,177
...	20
...	60
...	...	466	...	...	...	466
...	...	1,662	...	...	...	1,662
...	14	...	...	1,789
...	410	...	...	36,648
88	10,658
484	105,117
...	73
...	1,064
...	405
...	18,367
...	200	...	...	498
...	9,000	...	...	21,919
6,830	5,107	...	...	380,234
65,471	46,004	...	...	663,312
...	165	...	...	4,357
...	1,485	...	...	53,450
...	360,128
...	120	...	...	120
...	3,360	...	...	3,360
...	45,500	...	...	1,888,397
...	853	...	...	49,284
...	38,818
...	5,441
...	2,109	...	...	2,214
...	4,670	...	...	5,475
7,736	59,506	...	22,668	...	...	185,783
23,507	59,506	...	17,681	...	...	297,820
1,499	231	...	...	...	...	280,115
18,388	4,510	...	...	...	...	1,939,874
...	636
...	23,185
...	47,680
...	559	...	...	559
...	5,773	...	...	5,773
...	485,416	...	...	...	...	485,416
...	30,010	...	...	57,373
...	282,078	...	...	510,299
...	67	...	...	15,181
...	1,022	...	...	143,156
...	118	...	...	...	...	118
...	2,360	...	...	...	...	2,360
107,850	551,792	1,662	372,336	...	...	9,992,027

acid made from waste smelter gases.

FINALLY REVISED STATISTICS ON THE MINERAL PRODUCTION OF CANADA, BY

	Nova Scotia	New Brunswick	Quebec	Ontario
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CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS

Clay Products

Brick - Soft mud process -

Face	M \$	60 900	... ...	... ...	2,292 38,360
Common	M \$	480 5,680	678 9,992	1,241 9,862	6,796 87,644

**Stiff mud process -
(wire cut)**

Face	M \$	422 10,233	118 3,676	7,234 153,990	11,660 240,738
Common	M \$	1,671 20,046	411 6,972	17,483 270,483	3,191 46,337

Dry press -

Face	M \$	... ...	... ...	601 18,166	3,302 72,194
Common	M \$	... ...	... ...	... ...	1,834 29,357

**Fancy or ornamental
brick**

brick	M \$	... ...	... ...	... ...	6 387
Sewer brick	M \$	... ...	... ...	... ...	242 3,683

Paving brick

Paving brick	M \$	... ...	... ...	... ...	... ...
Firebrick	M \$	... ...	... ...	... ...	... ...

Fireclay and other clay ...

ton	22	4	... ...	... ...
\$	220	157	... ...	... ...

Fireclay blocks and shapes.

\$	75	90
----	----	---------	---------	----

Structural tile -

Hollow blocks	ton \$	1,759 17,590	65 631	7,676 66,197	8,196 60,438
Roofing tile	No. \$	... ...	... ...	... ...	20,469 1,136

Floor tile (quarries)....

sq.ft.	... ...	... ...	... ...	81,808
\$	... ...	... ...	... ...	12,490

Drain tile

M	107	1	533	8,746
\$	3,237	64	15,420	179,015

**Sewer pipe, copings, flue
linings, etc.**

\$	67,519	... ...	45,890	185,048
Pottery, glazed or unglazed	\$	... ...	25,425	... ...

Bentonite

ton	... ...	... ...	... ...	... ...
\$

Other clay products

\$	... ...	... ...	80	15,012
TOTAL	\$	125,500	46,917	580,088 1,024,579

PROVINCES, 1933. (continued)

Mani-toba	Saskat-chewan	Alberta	British Columbia	Northwest Territories	Yukon	C A N A D A
...	11	...	119	...	...	2,482
...	333	...	2,144	...	...	41,737
1,091	23	...	2,080	...	...	12,389
16,035	369	...	27,187	...	...	156,769
70	17	64	17	...	...	19,802
1,683	624	1,078	345	...	...	412,367
...	62	711	365	...	...	23,894
...	641	6,542	5,477	...	...	356,498
...	8	476	157	...	...	4,544
...	185	4,557	6,150	...	...	101,252
...	...	2,082	...	...	...	3,916
...	...	15,020	...	...	...	44,377
...	...	624	...	...	...	630
...	...	7,437	...	...	...	7,824
...	...	...	1	...	...	243
...	...	...	10	...	...	3,693
...	...	...	1	...	...	1
...	...	...	42	...	...	42
...	391	12	1,144	...	...	1,547
...	19,705	506	53,015	...	...	73,226
...	371	...	1,024	...	...	1,421
...	2,902	...	7,994	...	...	11,273
...	64,381	...	16,079	...	...	80,625
44	201	628	8,178	...	...	26,747
532	2,210	5,637	6,824	...	...	160,059
...	...	...	...	...	...	20,469
...	...	...	...	...	...	1,136
...	...	9,687	...	...	...	91,495
...	...	1,807	...	...	...	14,297
45	...	22	603	...	...	10,057
2,716	...	1,249	21,128	...	...	222,829
...	...	35,793	20,208	...	...	354,458
...	...	118,747	5,678	...	...	202,500
...	...	...	55	...	...	55
...	...	...	1,363	...	...	1,363
...	857	...	561	...	...	16,510
20,966	92,207	198,373	174,205	...	...	2,262,835

FINALLY REVISED STATISTICS ON THE MINERAL PRODUCTION OF CANADA, BY

	Nova Scotia	New Brunswick	Quebec	Ontario
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CLAY PRODUCTS AND OTHER
STRUCTURAL MATERIALS - concluded

Other Structural Materials

Cement	btl.	...	...	1,517,555	1,095,845
	\$	...	...	2,128,900	1,587,812
Lime	ton	3,914	16,849	110,334	146,193
	\$	30,160	134,786	647,558	1,227,197
Sand and gravel	ton	282,228	496,961	3,356,232	5,967,994
	\$	126,031	331,497	942,429	2,517,230
Slate	ton	...	...	...	...
	\$
Stone	ton	41,449	16,714	1,342,493	1,253,906
	\$	96,629	131,370	1,448,740	983,268
TOTAL	\$	252,820	597,653	5,167,627	6,315,507

GRAND TOTAL (IN CANADIAN
FUNDS) \$ 16,966,183 2,095,172 28,141,482 110,205,021

PROVINCES, 1933. (concluded)

Mani- toba	Saskat- chewan	Alberta	British Columbia	Northwest Territories	Yukon	C A N A D A
129,540	...	149,206	115,286	...	...	3,007,432
295,351	...	299,530	225,342	...	...	4,536,935
18,032	...	7,501	20,717	...	...	323,540
167,640	...	62,037	162,928	...	...	2,432,306
288,214	104,400	281,122	961,672	...	...	11,738,823
108,828	19,731	85,577	332,962	...	...	4,464,285
...	...	...	250	...	...	250
...	...	...	3,750	...	...	3,750
33,190	...	1,550	250,272	...	...	2,939,574
74,227	...	8,817	253,525	...	...	2,996,576
646,046	19,731	455,961	978,507	...	...	14,433,852
9,026,951	2,477,425	19,702,953	30,794,504	31,829	2,041,223	221,482,743

PRODUCTION IN CANADA, IMPORTS AND EXPORTS OF ARSENIC, JANUARY 1 to JUNE 30, 1933
and 1934.

	1933		1934	
	Pounds	Value	Pounds	Value
		\$		\$
<u>PRODUCTION -</u>				
White arsenic	639,902	26,723	621,019	22,336
<u>IMPORTS -</u>				
White arsenic (arsenious oxide)	107,399	3,384	1,635,098	41,490
Sulphide of arsenic	14,316	1,532	11,226	1,480
Soda, arseniate, bi-arseniate and stannate of	230	57	250	84
Arsenate of lead	392,635	34,329	449,292	37,725
Arsenate of lime	160,488	9,936	49,921	2,803
<u>EXPORTS -</u>				
Arsenic, n.o.p.	521,100	19,549	480,900	17,536

PRODUCTION IN CANADA, BY PROVINCES AND BY SOURCES, IMPORTS AND EXPORTS OF COPPER,
JANUARY 1 to JUNE 30, 1933 and 1934.

	1933		1934	
	Pounds	Value	Pounds	Value
		\$		\$
<u>PRODUCTION = By Provinces -</u>				
Quebec	34,083,427	2,278,910	32,933,176	2,669,892
Ontario	55,746,278	3,428,191	102,764,315	8,026,139
Manitoba	14,818,021	990,773	15,342,100	1,243,784
Saskatchewan	7,409,010	495,386	639,275	51,826
British Columbia	17,039,988	1,139,340	25,373,524	2,057,031
TOTAL	129,096,724	8,332,600	177,052,390	14,048,672

By Sources -

In blister copper produced	113,428,581	7,584,140	158,899,498	12,881,982
(x) In ores shipped and concentrates exported	6,247,859	417,750	8,337,512	675,921
In copper-nickel matte exported	9,420,234	330,710	9,815,380	490,769
TOTAL	129,096,724	8,332,600	177,052,390	14,048,672

(x) In 1934 includes copper in matte exported from British Columbia

IMPORTS -

Copper in bars or rods, when imported by manufacturers of trolley, telegraph and telephone wires and electric cables for use only in the manufacture of such articles in their own factories	42,000	4,865	207,900	24,945
Copper in bars or rods, in coil or otherwise, in lengths of not less than 6 feet, unmanufactured	178,500	21,940	125,700	15,809
Copper in blocks, pigs or ingots	13,100	1,022	17,500	1,819

PRODUCTION IN CANADA, BY PROVINCES AND BY SOURCES, IMPORTS AND EXPORTS OF COPPER,
JANUARY 1 to JUNE 30, 1933 and 1934. (concluded)

	1 9 3 3	1 9 3 4		
	Pounds	Value	Pounds	Value
IMPORTS - concluded		\$		\$
Copper, old and scrap	1,000	67	16,300	1,047
Copper in strips, sheets or plates not polished or coated	70,500	11,810	98,600	16,760
Copper tubing in lengths of not less than 6 feet, and not polished, bent or otherwise manufactured ..	128,423	24,941	185,063	43,002
Copper wire	10,685	2,465	40,240	13,552
Copper wire cloth, or woven wire of copper .....	...	2,040	...	1,046
Copper, all other, manufactures of, n.o.p. .....	...	96,430	...	159,080
Copper, precipitate of, crude ....	...	...	116	12
Copper, sub-acetate of, or verdigris, dry .....	...	...	306	109
Copper, sulphate of (blue vitriol) and copper sulphate of, dehydrated, for agricultural or spraying purposes	1,781,336	87,474	3,469,795	111,126
Copper rollers adapted for use in calico printing .....	...	30,900	...	29,776
TOTAL .....	...	283,954	...	306,838

EXPORTS -

Copper, fine, contained in ore, matte, regulus, etc.	15,080,400	604,843	20,234,800	1,013,347
Copper, blister	1,660,300	89,969	8,603,700	698,026
Copper, old and scrap	1,763,400	77,773	1,650,900	95,226
Copper in ingots, bars, cakes, slabs and billets	70,201,200	4,034,736	93,777,000	7,489,993
Copper in rods, strips, sheets, plates and tubing	13,628,100	857,873	19,189,600	1,741,259
Copper wire and cable .....	...	62,212	...	136,185
Copper manufactures, n.o.p. .....	...	33,346	...	99,012
TOTAL .....	...	5,760,752	...	11,273,048

Copper coin, foreign .....	...	173	...	23
Copper coin, Canadian .....	...	16,711	...	1,252

PRODUCTION OF GOLD, BY PROVINCES AND BY SOURCES, JANUARY 1 to JUNE 30, 1933 and 1934.

	1 9 3 3	1 9 3 4	
	Fine ounces	Fine ounces	
	\$	\$	
NOVA SCOTIA -			
In gold bullion	594	12,279	858
Equalization exchange .....	...	3,017	...
TOTAL NOVA SCOTIA IN CANADIAN FUNDS.	...	15,296	29,747
QUEBEC -			
In gold bullion, blister copper and in ores shipped	178,535	3,690,646	194,587
Equalization exchange .....	...	906,630	...
TOTAL QUEBEC IN CANADIAN FUNDS .....	...	4,597,276	6,746,331
ONTARIO -			
Porcupine Area -			
In gold bullion	525,429	10,861,581	460,773
Kirkland Lake Area -			
In gold bullion	510,747	10,558,077	513,303
Other gold mines and in matte and blister copper	56,217	1,162,109	66,146
Total Ontario	1,092,393	22,581,767	1,040,222
Equalization exchange .....	...	5,547,353	...
TOTAL ONTARIO IN CANADIAN FUNDS .....	...	28,129,120	36,064,497
MANITOBA -			
In gold bullion from gold mines and in blister copper	50,938	1,052,982	50,927
Equalization exchange .....	...	258,672	...
TOTAL MANITOBA IN CANADIAN FUNDS ...	...	1,311,654	1,765,639
SASKATCHEWAN -			
In blister copper	16,030	331,369	1,414
Equalization exchange .....	...	81,403	...
TOTAL SASKATCHEWAN IN CANADIAN FUNDS	...	412,772	49,023
ALBERTA -			
In crude alluvial gold	78	1,612	135
Equalization exchange .....	...	396	...
TOTAL ALBERTA IN CANADIAN FUNDS .....	...	2,008	4,680
BRITISH COLUMBIA -			
In alluvial gold	5,176	106,997	5,280
In gold bullion from gold mines	62,407	1,290,067	73,841
In blister copper	5,138	106,212	3,328
In base bullion and in ores, etc. exported	35,672	737,406	57,992
Total British Columbia	108,393	2,240,682	140,441
Equalization exchange .....	...	550,438	...
TOTAL BRITISH COLUMBIA IN CANADIAN FUNDS	...	2,791,120	4,869,090
YUKON -			
In alluvial gold and in ores exported	7,950	164,341	9,622
Equalization exchange .....	...	40,371	...
TOTAL YUKON IN CANADIAN FUNDS .....	...	204,712	333,595
TOTAL AT STANDARD PRICE OF GOLD.....	1,454,911	30,075,678	1,438,206
Estimated equalization on gold produced .....	...	7,388,280	...
TOTAL VALUE IN CANADIAN FUNDS .....	...	37,463,958	49,862,602

IMPORTS INTO CANADA AND EXPORTS OF GOLD, JANUARY 1 to JUNE 30, 1933 and 1934.

	1933	1934
IMPORTS -	\$	\$
Coin and Bullion -		
Coins, British, Canadian and Foreign gold coins	278,129	315,218
Gold bullion, in bars, blocks, ingots, drops, sheets or plates, unmanufactured	29,016	2,500
TOTAL	<u>307,145</u>	<u>317,718</u>

Gold, Other -

Bullion or gold fringe	3,461	6,467
Manufactures of gold and silver -		
Leaf	25,864	28,778
Sweepings	3,915	140
Manufactures, n.o.p.	6,154	13,733
Electroplated ware	85,009	165,155
TOTAL	<u>124,403</u>	<u>214,273</u>

EXPORTS -

Coin and Bullion -

Gold coin - Canadian	10	...
Foreign	5,963,594	83,480
Gold bullion - Canadian	28,016,327	43,588,570
Foreign	877	...
Total - Canadian	28,016,337	43,588,570
Foreign	5,964,471	83,480
Total Coin and Fine Gold Bullion	<u>33,980,808</u>	<u>43,672,050</u>
Gold-bearing quartz, dust, nuggets and crude bullion obtained direct from mining operations	1,085,157	1,936,038
Jewellers' sweepings (gold, silver and platinum)	233,915	259,768
TOTAL	<u>1,319,070</u>	<u>2,195,806</u>

TOTAL PRODUCTION OF GOLD AND SILVER IN CANADA, SHOWING OUTPUT OF PRINCIPAL GOLD MINES, JANUARY 1 to JUNE 30, 1934.

	Ore treated Tons	Gold content Fine oz.	Silver content Fine oz.
		858	37
NOVA SCOTIA - (Returns to the Mint)			
Granada	17,428	4,491	616
Siscoe	59,071	29,485	1,617
Beattie	168,024	26,597	3,225
Green Stabell	10,083	2,774	752
Bussières	(x)12,185	1,626	148
Miscellaneous, including copper mines .....	...	129,614	219,595
Total Quebec	<u>...</u>	<u>194,587</u>	<u>225,953</u>

ONTARIO -

Porcupine Belt -

Hollinger	915,443	209,444	34,143
McIntyre	411,345	115,510	34,845
Dome	273,200	105,823	9,747
Coniaurum	65,899	11,665	1,725

TOTAL PRODUCTION OF GOLD AND SILVER IN CANADA, SHOWING OUTPUT OF PRINCIPAL GOLD MINES,
JANUARY 1 to JUNE 30, 1934. (continued)

	Ore treated Tons	Gold content Fine oz.	Silver content Fine oz.
<u>ONTARIO - (concluded)</u>			
<u>Porcupine Belt - (concluded)</u>			
Buffalo-Ankerite	57,968	10,081	991
Vipond	50,793	8,144	1,409
Other gold mines .....	...	106	8
Total Porcupine .....	...	460,773	82,868
<u>Kirkland Lake Belt -</u>			
Lake Shore	415,915	241,721	51,202
Wright-Hargreaves	179,941	113,981	24,419
Teck Hughes	235,300	87,108	11,827
Sylvanite	48,660	25,300	4,390
Macassa	33,300	16,589	1,590
Toburn	17,690	9,939	2,334
Kirkland Lake	30,736	8,995	1,346
Ashley	21,444	6,473	1,251
Barry Hollinger	13,830	1,879	143
Other gold mines .....	...	1,318	630
Total Kirkland Lake .....	...	513,303	99,132
<u>North Western Ontario -</u>			
Howey	239,432	25,720	8,646
Parkhill	9,544	4,498	184
Minto	10,243	2,477	67
Ardeen (Moss)	8,562	2,612	13,520
Dikdik	(x) 293	1,082	644
Northern Empire	7,773	1,319	242
Other gold mines .....	...	637	227
Total North West Ontario .....	...	38,345	23,530
Copper-nickel and silver-cobalt smelters .....	...	27,801	2,436,507
Total Ontario .....	...	1,040,222	2,642,037
<u>MANITOBA AND SASKATCHEWAN -</u>			
San Antonio	30,385	10,662	1,706
Central Manitoba	21,630	5,978	1,554
Copper mines and other gold mines .....	...	35,701	465,675
Total Manitoba and Saskatchewan ..	...	52,341	468,935
<u>ALBERTA -</u> .....	...	135	11
<u>BRITISH COLUMBIA -</u>			
Pioneer	62,228	42,108	7,652
Premier	91,350	21,696	357,730
Bralorne	42,988	25,062	8,579
Reno	12,809	7,509	4,456
Cariboo Gold Quartz	12,183	3,994	862
Windpass	4,932	4,465	185
Relief Arlington	5,492	3,029	707
Surf Point	3,663	2,161	872
Twin Lakes	2,582	730	93
Other gold mines and B. C. smelters ..	...	29,687	3,773,774
Total British Columbia .....	...	140,441	4,154,910

TOTAL PRODUCTION OF GOLD AND SILVER IN CANADA, SHOWING OUTPUT OF PRINCIPAL GOLD MINES,
JANUARY 1 to JUNE 30, 1934. (concluded)

	Ore treated Tons	Gold content Fine oz.	Silver content Fine oz.
<u>YUKON -</u>			
Placer	9,548	2,148
Other sources	74	396,409
Total Yukon	9,622	398,557
CANADA	1,438,206	7,890,440

(x) Shipped.

When silver ores were exported for treatment, foreign smelter allowance was made for smelter losses.

WORLD PRODUCTION OF GOLD, BY COUNTRIES, JANUARY 1 to JUNE 30, 1933 and 1934.
(From "American Bureau of Metal Statistics")

	1933	1934
	Fine ounces	Fine ounces
United States (a)	1,125,000	1,426,000
Canada	1,455,000	1,431,000
Mexico	306,000	333,000(f)
Colombia	363,000	163,000(f)
Other South America	333,000	333,000
British India (b)	169,000	158,000
Japan (b)	206,000	231,000(f)
Queensland	54,000(f)	
Western Australasia	538,000	317,000
Other Australasia(c)		226,000
South Africa	5,559,000	5,232,000
Belgian Congo	127,000	132,000
Rhodesia	308,000	346,000
British West Africa	163,000	188,000
Russia (d)	960,000	1,600,000(f)
Elsewhere (e)	430,000	668,000(f)
TOTAL	11,709,000	12,838,000

(a) Includes Philippines.

(b) Principal mines only, but nearly correct.

(c) Includes New Zealand and New Guinea.

(d) Chiefly Siberia.

(e) Includes West Indies, Central America, Europe and Asiatic and African lands not separately reported.

(f) Conjectural.

PRODUCTION IN CANADA, IMPORTS AND EXPORTS OF LEAD, JANUARY 1 to JUNE 30, 1933 and
1934.

	1	9	3	3	1	9	3	4
	Pounds		\$		Pounds		\$	
<u>PRODUCTION -</u>								
Ontario	12,675	272	11,437	295				
British Columbia	127,595,873	2,740,632	159,581,779	4,112,422				
Yukon	1,305,027	28,030	958,539	24,702				
TOTAL	128,913,575	2,768,934	160,551,755	4,137,419				
<u>IMPORTS -</u>								
Old and scrap pig and block	3,716	440	56,561	1,794				
Bars and sheets	66,459	2,532	43,557	1,785				
Litharge	902,100	47,434	653,400	36,834				
Acetate of lead	65,616	4,907	18,785	1,500				
Nitrate of lead	40,350	2,020	79,767	4,007				
Other manufactures .....	...	26,596	...	35,555				
Pipe lead	7,002	389	6,730	292				
Shots and bullets	690	36	4,085	309				
Tetraethyl lead, compounds of	701,570	642,819	695,992	409,447				
Lead pigments -								
Dry white lead	3,530	260	12,301	865				
White lead, ground in oil	7,270	1,168	6,413	902				
Dry red lead and orange mineral..	244,698	13,502	195,796	11,348				
TOTAL .....	...	741,903	...	505,138				

EXPORTS -

Lead contained in ore	6,000	120	9,378,600	205,621
Pig lead	150,169,900	2,186,536	135,412,800	2,698,270
TOTAL	150,175,900	2,186,656	144,791,400	2,903,891

PRODUCTION OF SILVER IN CANADA, BY PROVINCES AND BY SOURCES, JANUARY 1 to JUNE 30,
1933 and 1934.

(Silver at 45.005 cents)

	1	9	3	3	1	9	3	4
	Fine ounces		\$		Fine ounces		\$	
<u>NOVA SCOTIA -</u>								
In gold bullion	44	15	37	17				
<u>QUEBEC -</u>								
In gold ores, in blister copper and in ores exported	230,572	80,125	225,953	101,690				
<u>ONTARIO -</u>								
In silver bullion	1,334,479	463,741	1,470,853	661,957				
(x) In gold bullion	219,246	76,189	205,530	92,499				
In matte and crude bullion exported, in blister copper produced and in ores exported	737,801	256,392	965,654	434,593				
Total Ontario	2,291,526	796,322	2,642,037	1,189,049				

(x) Includes a relatively small amount of silver contained in slag and ores shipped.

PRODUCTION OF SILVER IN CANADA, BY PROVINCES AND BY SOURCES, JANUARY 1 to JUNE 30,
 1933 and 1934. (concluded)
 (Silver at 45.005 cents)

	1 9 3 3	1 9 3 4		
	Fine ounces	Fine ounces		
	\$	\$		
MANITOBA -				
In gold bullion, in blister copper and ores shipped	411,088	142,856		
	<u>450,289</u>	<u>202,653</u>		
SASKATCHEWAN -				
In blister copper	204,027	70,901		
	<u>18,646</u>	<u>8,392</u>		
ALBERTA -				
In crude alluvial gold shipped to Royal Canadian Mint	8	3		
	<u>11</u>	<u>5</u>		
BRITISH COLUMBIA -				
In alluvial gold	1,165	405		
In gold bullion	13,765	4,783		
In blister copper	170,476	59,242		
In base bullion and in ores exported Total British Columbia	<u>3,110,451</u>	<u>1,080,903</u>	<u>3,957,155</u>	<u>1,780,917</u>
	<u>3,295,857</u>	<u>1,145,333</u>	<u>4,154,910</u>	<u>1,869,917</u>
YUKON -				
In alluvial gold and in ores exported	874,826	304,008		
	<u>393,557</u>	<u>179,370</u>		
TOTAL CANADA	7,307,948	2,539,563	7,890,440	3,551,093

NOTE - No silver ores were reported as having been shipped from the North West Territories during either the first half of 1933 or 1934.

IMPORTS INTO CANADA AND EXPORTS OF SILVER, JANUARY 1 to JUNE 30, 1933 and 1934.

	1 9 3 3	1 9 3 4
	Fine ounces	Fine ounces
	\$	\$
IMPORTS -		
Silver in bars, etc., unmanufactured	...	286,545
Silver, manufactures of, n.o.p., and articles consisting wholly or in part of sterling, and other silver- ware .....	...	27,407
Silver and other coin, except gold..	...	12
TOTAL	313,964	33,830
EXPORTS -		
Silver contained in ore, concen- trates, etc.	511,464	129,405
Silver bullion	<u>5,309,251</u>	<u>1,601,908</u>
TOTAL	5,820,715	1,731,313
Silver coin - Foreign .....	...	134,960
Canadian .....	...	34,105
	<u>132,884</u>	<u>15,719</u>

PRODUCTION IN CANADA, IMPORTS AND EXPORTS OF ZINC, JANUARY 1 to JUNE 30, 1933 and 1934.

	1 9 3 3 Pounds	\$	1 9 3 4 Pounds	\$
PRODUCTION -				
Manitoba	14,413,780	411,989	20,753,100	692,323
Saskatchewan	7,206,900	205,995	864,720	28,847
British Columbia	63,242,321	1,807,655	115,469,099	3,852,049
TOTAL	84,863,001	2,425,639	137,086,919	4,573,219
IMPORTS -				
Zinc dust	320,800	16,514	544,300	29,710
Zinc in blocks, pigs, bars and rods and zinc plates, n.o.p.	300	39	10,300	478
Zinc strip and sheets and zinc plates for marine boilers	1,493,500	102,013	1,713,600	113,459
Zinc spelter	162,012	4,901	500	29
Zinc white	2,850,737	123,603	5,565,561	258,917
Zinc sulphate and chloride of	673,881	16,794	1,239,563	25,735
Zinc, manufactures of, n.o.p. ....	...	31,929	...	40,865
Lithopone	3,651,070	132,653	6,360,001	233,322
EXPORTS -				
In ore	4,382,800	26,963	21,501,900	361,594
Spelter	83,234,900	2,018,704	112,138,000	3,580,727
Scrap, dross and ashes	2,582,100	15,045	2,689,200	28,883
TOTAL	90,199,800	2,060,712	136,329,100	3,971,204

F U E L S

OUTPUT AND VALUE OF CANADIAN COAL BY PROVINCES AND GRADES, JANUARY 1 to JUNE 30, 1933 and 1934. (Short tons)

Province	1 9 3 3 (x)		1 9 3 4	
	Output	Total value \$	Output	Total value \$
NOVA SCOTIA (Bituminous)	1,764,122	6,355,959	2,872,144	9,817,971
NEW BRUNSWICK (Bituminous)	161,279	540,836	151,662	499,049
MANITOBA (Lignite)	1,867	4,350	2,500	6,102
SASKATCHEWAN (Lignite)	396,742	543,454	375,242	496,674
ALBERTA -				
Bituminous	831,277	2,611,947	915,487	2,897,916
Sub-bituminous	234,302	517,896	262,141	574,741
Lignite	943,606	2,143,408	851,916	1,785,596
Total for Alberta	2,009,185	5,273,251	2,029,544	5,258,253
BRITISH COLUMBIA (Bituminous)	627,692	2,393,901	898,652	2,508,955
YUKON (Bituminous)	319	1,425	155	547
CANADA - Bituminous	3,384,689	11,884,066	4,638,100	15,724,438
Sub-bituminous	234,302	517,896	262,141	574,741
Lignite	1,342,215	2,691,212	1,229,658	2,288,372
TOTAL	4,961,206	15,093,174	6,129,899	18,587,551

(x) Revised.

COAL MADE AVAILABLE FOR CONSUMPTION IN CANADA, JANUARY 1 to JUNE 30, 1933 and 1934.
(Short tons)

Month	1 9 3 3(x)				1 9 3 4				Coal made available for use
	Output	Imports	Ex-ports	available for use	Output	Imports	Ex-ports		
Jan.	1,038,843	486,206	37,971	1,437,078	1,290,164	541,318	17,956	1,314,026	
Feb.	1,049,897	455,272	22,413	1,432,756	1,010,204	420,049	26,015	1,404,238	
March	825,023	497,908	22,531	1,300,400	1,031,220	707,051	19,397	1,718,874	
April	670,633	432,445	8,363	1,094,715	814,475	451,362	8,134	1,257,703	
May	677,859	938,835	15,008	1,601,686	1,003,957	1,548,268	23,763	2,528,462	
June	698,951	1,121,313	12,155	1,808,109	979,879	1,532,375	22,370	2,489,384	
TOTAL	4,961,206	3,931,979	118,441	8,774,744	6,129,899	5,200,923	117,635	11,213,187	

(x) Revised.

IMPORTS OF ANTHRACITE, BITUMINOUS AND LIGNITE COAL INTO CANADA, JANUARY 1 to JUNE 30, 1934. (Short tons)

Month	A N T H R A C I T E			B I T U M I N O U S			L I G N I T E	
	United States	Great Britain	TOTAL	United States	Great Britain	TOTAL	United States	TOTAL
January.	171,847	10,067	181,914	355,091	4,217	359,308	596	541,818
February	129,584	35,889	165,473	248,826	5,606	254,432	144	420,049
March ..	195,997	20,061	216,058	477,452	13,406	490,358	135	707,051
April ..	79,512	5,811	85,323	359,757	6,092	365,849	190	451,362
May	158,027	302,019	460,046	1,035,287	52,921	1,088,208	14	1,548,268
June ...	163,399	213,083	376,482	1,131,576	24,269	1,155,845	48	1,532,375
TOTAL ..	898,366	586,930	1,485,296	3,607,989	106,511	3,714,500	1,127	5,200,923

COKE STATISTICS FOR CANADA, JANUARY 1 to JUNE 30, 1934.

Months	Bituminous coal used in coke making			COKE MADE	Disposition of coke by makers					
	Canadian	Imported	TOTAL		In coke or gas plants	U S E D		S O L D		
						In coke makers' plants	In for do- smelters	For makers' use	For smelters use other uses	
Jan..	83,033	188,891	271,924	194,957	23,163	44,571	183,295	32,698	283,727	
Feb..	56,277	178,158	234,435	169,134	18,841	27,471	171,618	25,367	243,297	
March	62,155	204,276	266,431	191,848	20,771	30,855	136,472	23,724	211,820	
April	59,483	195,864	255,347	185,465	19,435	42,887	93,837	25,420	179,579	
May	60,733	193,921	254,654	185,171	19,736	42,331	36,845	33,437	132,349	
June	60,410	186,733	247,143	179,305	18,312	38,118	38,734	22,999	118,163	
TOTAL	382,095	1,147,839	1,529,934	1,105,880	120,258	226,231	660,801	161,645	1,168,935	

PRODUCTION IN CANADA, IMPORTS AND EXPORTS OF COKE, BY PROVINCES, JANUARY 1 to JUNE 30, 1933 and 1934.

	Year	Nova Scotia, New Brunswick and Quebec	Ontario	Manitoba, Saskat- chewan, Alberta and British Columbia		CANADA
				PRODUCTION	APPARENT CONSUMPTION	
PRODUCTION ..	1933 ..	170,422	588,642	79,746	79,597	808,810
	1934 ..	301,827	701,411	102,642	109,959	1,105,380
IMPORTS	1933 ..	15,208	179,904	3,819	3,819	198,551
	1934 ..	14,168	281,030	7,317	7,317	302,515
EXPORTS	1933 ..	88	..	3,768	3,768	3,856
	1934 ..	296	31	..	..	327
APPARENT CONSUMPTION	1933 ..	184,850	738,546	79,597	79,597	1,002,993
	1934 ..	315,699	982,410	109,959	109,959	1,408,068

PRODUCTION OF NATURAL GAS IN CANADA, JANUARY 1 to JUNE 30, 1933 and 1934.

	1 9 3 3	\$	1 9 3 4	\$
	M cu.ft.		M cu.ft.	
New Brunswick	370,565	182,300	401,765	196,784
Ontario	4,110,763	2,626,100	4,216,000	2,649,000
Manitoba	300	90	300	90
Alberta	8,796,268	2,591,952	8,046,463	2,209,762
CANADA	13,277,896	5,400,442	12,664,528	5,055,636

PRODUCTION OF CRUDE PETROLEUM IN CANADA, JANUARY 1 to JUNE 30, 1933 and 1934.

	1 9 3 3	\$	1 9 3 4	\$
	Barrels		Barrels	
New Brunswick	4,887	10,898	5,816	11,743
Ontario	68,322	119,245	67,716	141,676
Alberta	449,353	1,188,947	642,700	1,719,347
North West Territories .....	...	...	1,115	5,575
CANADA	522,562	1,319,090	717,347	1,878,341

NON-METALS

SALES OF ASBESTOS IN CANADA, IMPORTS AND EXPORTS, JANUARY 1 to JUNE 30, 1933 and 1934.

	1 9 3 3		1 9 3 4	
	Quan- tity	Sales value at mill	Quan- tity	Sales value at mill
		Tons		\$
<u>PRODUCTION - By Grades</u>				
Crudes	499	143,660	807	202,185
Fibres	22,717	968,061	34,104	1,430,158
Shorts	24,496	325,430	29,601	415,414
TOTAL	47,712	1,437,151	64,512	2,047,757
Sand, gravel and stone (waste rock only)	925	767	1,676	1,398

IMPORTS -

Asbestos brake and clutch lining ...	...	88,847	...	122,507
Asbestos in any form other than crude and all manufactures of, n.o.p. ....	...	98,996	...	189,496
Asbestos packing	36	27,024	35	28,937

EXPORTS -

Asbestos	23,853	1,179,456	39,040	1,820,574
Asbestos, sand and waste	23,922	339,189	29,201	438,099
Asbestos manufactures, including asbestos roofing .....	...	24,660	...	58,461

PRODUCTION IN CANADA, IMPORTS AND EXPORTS OF GYPSUM, JANUARY 1 to JUNE 30, 1933 and 1934.

	1	9	3	3	1	9	3	4
	Tons		\$		Tons		\$	
PRODUCTION -								
Crude - Lump or mine run	19,675	23,618		81,715	83,905			
Crushed	50,507	55,815		48,078	59,383			
Fine ground	665	6,512		608	3,640			
Calcined	26,178	183,995		28,194	192,083			
TOTAL	97,025	269,940		158,595	339,016			

IMPORTS -

Gypsum, crude (sulphate of lime)	4	71		6	196
Plaster of Paris, or gypsum ground, not calcined	68	2,691		105	3,132
Plaster of Paris, or gypsum calcined and prepared wall plaster	255	8,515		222	7,378
TOTAL .....	...	11,277		...	10,706

EXPORTS -

Gypsum or plaster, crude	30,821	36,220		88,443	99,749
Plaster of Paris, ground, and prepared wall plaster	285	6,626		403	9,508
TOTAL .....	...	42,846		...	109,257

PRODUCTION OF SALT IN CANADA, BY GRADES, JANUARY 1 to JUNE 30, 1933 and 1934.

	1			9			3			4		
	Manu-	Value of salt sold			Manu-	Value of salt sold			(not in- cluding containers)	factured	Sold	(not in- cluding containers)
		factured	Sold	(not in- cluding containers)		factured	Sold	(not in- cluding containers)				
	Tons	Tons	\$		Tons	Tons	\$					
Table, dairy and pressed blocks	28,022	28,623	546,786		33,828	33,467	570,269					
Common, fine	33,283	30,674	207,282		30,708	32,275	193,776					
Common, coarse	9,230	9,458	98,372		10,145	10,514	92,931					
Land salt	288	288	1,152		31	26	131					
Other grades	14,287	14,287	59,421		16,541	16,541	75,399					
Brine for chemical works (salt equivalent sold or used)	44,200	44,200	44,200		60,818	60,818	60,818					
TOTAL	129,310	127,530	957,213		152,071	153,641	993,324					
Value of containers	252,261		276,410					
GRAND TOTAL	1,209,474		1,269,734					

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IMPORTS INTO CANADA AND EXPORTS OF SALT, JANUARY 1 to JUNE 30, 1933 and 1934.

	1 9 3 3	1 9 3 4		
	Tons	\$	Tons	\$
<u>IMPORTS -</u>				
Salt for use of the sea or gulf fisheries ..	14,953	46,613	25,358	62,351
Salt in bulk, n.o.p.	21,881	105,517	18,554	72,888
Salt, n.o.p., in bags, barrels, etc.	7,630	73,233	9,193	65,367
Salt, table, made by an admixture of other ingredients, when containing not less than 90 per cent pure salt	47	2,906	60	2,354
EXPORTS	1,503	14,628	1,456	17,344

IMPORTS INTO CANADA AND EXPORTS OF CERTAIN (SPECIFIED) NON-METALLIC MINERALS,
JANUARY 1 to JUNE 30, 1933 and 1934.

	1 9 3 3	1 9 3 4			
	Quantity	Value	Quantity	Value	
		\$		\$	
<u>IMPORTS -</u>					
Barytes	Cwt.	6,964	6,026	10,974	9,987
Feldspar, crude	Cwt.	1,104	596	2,443	990
Feldspar, not further manufactured ..					
than ground	Cwt.	2,932	2,895	8,627	5,534
Fluorspar	Cwt.	2,225	4,041	64,926	28,703
Graphite -					
Crucibles, plumbago	-	...	11,520	...	15,748
Plumbago, not ground or otherwise manufactured	-	...	1,593	...	1,308
Plumbago, ground and manufactures of, n.o.p.	-	...	28,197	...	54,776
Magnesite, dead-burned, sintered, caustic, calcined or plastic					
magnesia	Cwt.	8,950	10,104	4,316	12,874
Brick, fire, magnesite	-	...	56,423	...	175,053
Magnesium sulphate	Lb.	1,922,454	20,748	1,995,725	22,710
Mica and manufactures of, n.o.p.	-	...	9,225	...	32,073
Phosphate rock	ton	707	3,559	6,948	40,726
Brimstone or sulphur, crude or in roll or flour	ton	34,893	720,396	43,403	769,615
Talc and soapstone	ton	1,001	15,503	1,567	25,689

EXPORTS -

Graphite or plumbago, crude or refined	ton	326	13,069	857	35,275
<u>Mica -</u>					
Rough cobbed and thumb-trimmed	ton	1	520	32	17,200
Mica splittings	ton	12	8,946	44	38,887
Mica scrap and waste	ton	316	2,837	430	4,082
Mica plate and manufactures of (micanite)	-	...	380	...	475
Mineral pigments, iron oxides and ochres, etc.	ton	282	10,097	815	46,295
Talc	ton	4,386	45,900	4,477	51,653