

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

FEB 27 1938

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)
Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc.

MONTHLY REPORT

COPPER and NICKEL PRODUCTION IN CANADA - DECEMBER, 1937.

COPPER - Copper production in Canada during December was recorded at 49,240,080 pounds; in the preceding month, 50,735,281 pounds were produced while in December, 1936, the output was 43,608,309 pounds, according to a report just issued by the Dominion Bureau of Statistics at Ottawa. During the calendar year 1937 the Canadian output totalled 529,773,733 pounds or 25.8 per cent above the quantity produced a year ago. Elster copper production in 1937 aggregated 457,717,395 pounds compared with 330,386,584 pounds in 1936.

The average price of copper, on the London market, in December was 9.793 cents per pound, in Canadian funds; valued at this price the output in Canada during December was worth \$4,822,081. In November copper averaged 9.787 cents per pound and the value of the month's production was \$4,965,462.

Refined copper production of the world declined to 179,872 tons in December from the November total of 185,270 tons. The United States output recorded a 20.2 per cent falling-off to 50,463 tons. Despite this decline in output, stocks in the United States increased 38,252 tons in December to 259,908 tons; this was due to a sharp decline in domestic deliveries. During November, 33,892 tons were delivered to United States consumers but in December only 18,103 tons were delivered. Countries, other than the United States, produced 119,409 tons or 9.1 per cent above the November output. Stocks in these countries rose 19,674 tons to 211,844 tons on December 31st.

The Metal and Mineral Markets estimates the world production of copper, output of new metal (production from ore) at approximately 2,400,000 tons, easily the largest yearly total on record. Total output from all sources, including copper recovered from scrap, was about 2,604,000 tons. New copper production in the United States totalled 340,000 tons during 1937; in Chile, 437,000 tons; in Africa, 410,000 tons; in Canada, 229,000 tons, and in Russia, 100,000 tons.

PRODUCTION OF COPPER IN CANADA

Month	1937(a)	1936	1935
	Pounds	Pounds	Pounds
January	37,232,247	34,303,820	33,472,667
February	38,425,569	32,917,202	33,466,365
March	41,796,786	36,493,444	37,832,255
April	41,939,293	35,500,956	33,848,307
May	41,561,784	35,168,740	35,779,034
June	42,549,292	31,119,359	35,625,079
July	41,710,330	23,693,175	30,966,804
August	44,593,629	35,458,299	32,593,315
September	43,045,881	36,132,454	33,927,147
October	51,853,071	34,644,498	35,421,463
November	50,735,281	37,007,475	34,524,933
December	49,240,080	43,608,309	36,541,130
CALENDAR YEAR	529,773,733	421,027,732	418,997,700

(a) Subject to revision.

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Section 1: Introduction

Section 2: Methodology

Section 3: Results

Section 4: Discussion

Section 5: Conclusion

Section 6: References

Section 7: Appendix

Section 8: Bibliography

Table 1: Data Summary		Table 2: Detailed Analysis	
Category	Value	Category	Value
A	10	A	10
B	20	B	20
C	30	C	30
D	40	D	40
E	50	E	50
F	60	F	60
G	70	G	70
H	80	H	80
I	90	I	90
J	100	J	100

Section 9: Summary

Section 10: Final Remarks

COPPER PRODUCTION IN CANADA DURING 1937, BY MONTHS

Month	Output(a)	Average value	
		per pound in	Total Value(a)
	Pounds	Canadian funds	\$
January	37,282,247	12.33695	4,599,492
February	38,425,569	13.990375	5,375,881
March	41,796,786	16.60334	6,939,662
April	41,989,238	14.301	6,130,856
May	41,561,784	14.008	5,821,975
June	42,549,292	13.541	5,761,600
July	41,710,330	13.958	5,821,163
August	44,583,629	14.146	6,306,800
September	48,045,881	13.014	6,252,691
October	51,853,071	11.169	5,791,469
November	50,735,231	9.787	4,965,462
December	49,240,080	9.793	4,822,081
TOTAL - CALENDAR YEAR	529,773,738	-	68,589,132

(a) Subject to revision.

EXPORTS OF COPPER FROM CANADA DURING THE MONTH OF DECEMBER and the CALENDAR YEAR 1937.

	DECEMBER, 1937		CALENDAR YEAR 1937	
	Pounds	\$	Pounds	\$
Copper in ore, matte, regulus, etc...	5,514,700	386,030	73,367,600	7,409,381
Copper, blister	5,728,300	639,198	10,384,300	1,333,073
Copper in ingots, bars, cakes, slabs and billets	18,258,400	1,999,646	296,141,300	38,705,380
Copper in rods, strips, sheets, plates and tubing	5,734,700	756,312	51,224,300	7,310,329

IMPORTS OF COPPER INTO GREAT BRITAIN DURING THE MONTH OF DECEMBER AND THE CALENDAR YEAR 1937

	DECEMBER, 1937		CALENDAR YEAR 1937	
	Pounds	£	Pounds	£

Unwrought copper, including rough copper of 94% copper content or over -
ELECTROLYTIC -

From - Northern Rhodesia	3,279,360	66,686	39,845,120	1,051,645
Canada	20,426,560	430,394	222,532,300	5,938,431
Other British countries .	...	...	3,447,360	88,510
United States	3,808,000	97,053	102,455,360	2,936,516
Chile	4,034,240	76,729	50,641,280	1,386,472
Other Foreign countries .	...	...	9,230,320	294,905
TOTAL	31,548,160	670,842	428,402,240	11,696,479

OTHER -

From - Union of South Africa ...	398,720	7,612	8,984,640	241,172
Northern Rhodesia	17,174,080	310,787	206,129,280	5,129,481
Other British countries .	...	...	1,039,360	27,518
Chile	10,810,240	210,652	215,875,520	5,422,086
Other Foreign countries .	2,852,240	53,058	16,970,240	389,814
TOTAL	31,241,280	582,109	443,999,040	11,210,071

Plates, sheets, discs, circles and strip

652,344	21,108	5,325,248	173,840
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Rods and sections, angles and shapes and wire not in coils -

From - Canada	5,604,592	129,192	40,569,728	1,128,913
Foreign countries	7,230	270	122,504	6,541
TOTAL	5,611,822	129,462	40,692,232	1,135,454

Wire in coils (including uninsulated electric wire)

193,760	5,189	2,038,400	65,176
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All other manufactures of copper not elsewhere specified

603,904	26,311	6,526,352	247,877
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NICKEL - The Canadian production of nickel totalled 20,624,073 pounds in December compared with 19,733,115 pounds in November and 18,049,739 pounds in December, 1936. Output during the calendar year 1937 advanced to a new high record of 225,711,721 pounds; in the preceding year 169,739,393 pounds were produced.

The following percentages, obtained from an annual review (1937) of the nickel industry by the President of the International Nickel Company of Canada, Limited, give a general picture of the relative importance of the principal forms in which nickel enters world industry:

Steels (constructional steels, stainless steels and other corrosion and heat-resisting steels and steel castings)	55 per cent.
Monel, malleable nickel, nickel-clad and Inconel	12 per cent.
Nickel-copper alloys and nickel silvers	10 per cent.
Electrodeposition	10 per cent.
Nickel cast iron	5 per cent.
Heat resistant and electrical resistance alloys	3 per cent.
Nickel brass, bronze and aluminum alloy castings	2 per cent.

This review also states that the factors contributing to the 24 per cent increase in nickel consumption during the first ten months of 1937 were the better pace of world business, the larger output of products containing nickel as an established component, introduction of nickel into new products and the spread of nickel consumption to new industrial countries. Another significant factor in nickel consumption has been the rapid development of mass production by manufacturing processes involving highly corrosive conditions, where nickel, high nickel alloys, monel, stainless steel and the various alloy-clad steels provide industry with materials combining requisite strength with the essential resistance to corrosion.

The annual report of the Falconbridge Nickel Mines Ltd. showed that during the past year, 1,217,378 tons of new ore were added to ore reserves in the Falconbridge mine and 249,000 tons were added from the company's holdings in other sections of the Sudbury district, while 465,453 tons were withdrawn for treatment. This company's ore dressing plant, mill and smelter were operated throughout the year with only normal interruptions for repairs.

PRODUCTION OF NICKEL IN CANADA

Month	1937(a)	1936	1935
	Pounds	Pounds	Pounds
January	16,173,436	14,022,665	9,419,574
February	17,330,301	16,135,311	8,813,273
March	18,195,641	15,699,360	10,651,409
April	20,266,604	11,042,441	11,872,816
May	18,462,539	11,840,380	11,365,544
June	20,959,736	14,100,492	11,701,703
July	15,792,340	12,526,376	10,220,876
August	20,662,233	12,379,095	10,903,373
September	19,022,019	15,905,474	12,936,881
October	16,491,539	12,769,154	13,399,099
November	19,733,115	15,037,356	12,121,930
December	20,624,079	18,049,739	15,044,762
TOTAL - CALENDAR YEAR	225,711,721	169,739,393	138,516,240

(a) Subject to revision.



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TABLE 1			
Year	1980	1981	1982
1. Total population	22,709,672	22,809,672	22,909,672
2. Male population	11,354,836	11,404,836	11,454,836
3. Female population	11,354,836	11,404,836	11,454,836
4. Total population aged 15 and over	18,167,736	18,267,736	18,367,736
5. Male population aged 15 and over	9,083,868	9,133,868	9,183,868
6. Female population aged 15 and over	9,083,868	9,133,868	9,183,868
7. Total population aged 65 and over	4,031,744	4,081,744	4,131,744
8. Male population aged 65 and over	2,015,872	2,030,872	2,045,872
9. Female population aged 65 and over	2,015,872	2,050,872	2,085,872
10. Total population aged 15 and over, by marital status			
a. Married	12,167,736	12,267,736	12,367,736
b. Single	5,083,868	5,133,868	5,183,868
c. Divorced	1,016,773	1,026,773	1,036,773
d. Widowed	1,899,259	1,939,259	1,979,259