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DOMINION BUREAU OF STATISTICS - CANADA

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Mining, Metallurgical and Chemical Branch

Chief: W. H. Losee, B.Sc.

COPPER, 1931.

Finally revised statistics on the production of primary comper in Canada, as reported by the Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics at Ottawa, show a production in 1931 of 292,304,390 pounds valued at \$24,114,065 as compared with 303,475,356 pounds worth \$37,948,359 in 1930. This represents decreases of 11,173,966 pounds in volume and \$13,834,294 in value. The 1931 cutput was, however, greater than that in 1929. Unfortunately, the abnormally low prices for copper existing throughout the year under reliew resulted in a considerable reduction in valuation as contrasted with 1929. Manitoba was the only province to record an increased copper output in 1931. This especially reflects the first full year's operation of the new Flin Flon smelter of the Hudson Bay Mining and Smelting Company; operating efficiency at the property was greatly improved and costs lowered, the company reports that the 1931 metal production was entirely sold. The copper output of the province was also considerably increased when the first unit of the Sherritt Gordon mill started on March 10th, 1931; by the middle of May the rated capacity of the unit, 600 tons in 24 hours was reached. During the operating period of nine months the mine produced 14,718,387 pounds of copper and \$134,305 of gold and silver from 214,081 tons of ore Sherritt Gordon concentrates are treated at the Flin Flon smelter. Lower copper outputs for Ontario and Quebec were due largely to reductions in the production of this metal by the International Nickel Company of Canada, Ltd., and Moranda Mines Ltd. In British Columbia the closing of the Copper Mountain mine by the Granby Consolidated Mining and Smelting Company Ltd. was the greatest contributing cause of the lessened production of copper in that province. Both the Britannia mine on Howe Sound, B.C., and the Eustis mine in Quebec were steady producers and shippers of copper concentrates throughout 1931. The products from these properties were exported for smelting in United States plants.

Electrolytically refined copper was produced in 1931 by the Ontario Refining Company Itd. at Copper Cliff. Ontario, and by the Canadian Copper Refiners Ltd. at Montreal East, P.Q. The former company produce wire bars, ingot bars, V.C. cakes, cathodes, slabs and billets; Canadian Copper Refiners supply ingots to Canada Wire and Cable Co. Ltd., an allied company. These are used in the production of round rods, drawn copper for shaped or round trolley wire, large and small drawn copper wire either plain or tinned, medium or soft, stranded wires and cables and all ranges of weatherproof wires and cables. The copper refinery of the Consolidated Miging and Smelting Co. Ltd., located at Trail, B.C., was inactive throughout 1931. Operating copper refineries in Canada possess a capacity of 195,000 tons of refined copper a year.

The average New York price for electrolytic copper during 1931 was 8.116 cents per pound as compared with 12.982 cents in 1930; using the par of exchange on New York for the first nine months of 1931 and the average monthly mate of exchange for each of the last three months, the average value of copper in Canadian funds for the year was 8.370 cents per pound.

In Rhodesia, Roan Antelope copper mine reports the shipments abroad of concentrates until the early part of December, 1931, when the smelter was blown in and the production of blister copper commenced at Luanshiya. During December this smelter produced 4,142 short tons of blister assaying 99.72 per cent at a smelting cost of £2.532 per short ton of blister. It was expected that the new Rhokana smelter under construction at M'Kana, Northern Rhodesia, would commence producing blister copper early in 1932. The Rhokana Corporation Ltd. formerly the Rhodesian Congo Border Concession Ltd. report the company's total indicated ore reserves in Northern Phodesia at 270, 18° OCO short tons averaging 4.3 per cent copper and containing 11,783.560 short tons of copper. In view of the relative tnimportance of the low grade Bwana M'Kabwa ore and the low price of copper, operations at the mine were terminated; the rich ore from the M'Changa West ore body of the company will be treated at the M'Kana central plant. The Mount Lyell Mining and Railway Company, Mount Lyell, Tasmania, reports that during the year ending September 30, 1931, a larger tonnage of copper ore was treated and substantial reductions in costs achieved, total output from all mines being 292,830 tons as compared with 244,535 in the preceding year; blister copper output was 10,115 tons, a new high record for the company; output of cathode copper for the year totalled 10,821 tons; refinery capacity is 13,000 tons. Silver slimes produced amounted to 131 tons and contained sixty tons of copper, 168,913 ounces of silver and 3,966 ounces of gold. Ore reserves of the Hount Lyell Company as at September 30, 1931, exclusive of the lower grade ore in the Crown Lyell and Lyell Tharsis mines, are estimated as follows:-

	Tons	Copper	Silver oz.	Gold oz.
North Mount Lyell Mine	768,292	5.0	1.0	0.015
Lyell Comstock Mine	750,000	3.0	0.25	0.03
Royal Tharsis Mine	2,500,000	2.25	0.10	0.02

PRODUCTION OF PRIMARY COPPER IN CAMADA, BY PROVINCES AND BY SOURCES, 1930. and 1931.

	19 Pounds	3 O Value	19 Pounds	3 1 Value
PRODUCTION: -		\$		\$
By provinces:-				
Quebec Ontario Manitoba British Columbia Yukon TOTAL	80,310,363 127,718,871 2,087,609 93,318,885 42,628 303,478,356	10,425,891 15,187,259 215,018 12,114,657 5,534 37,948,359	68,376,985 112,882,625 45,821,432 65,223,348 292,304,390	5,723,154 9,095,463 3,835,254 5,459,194 24,114,065
By sources:-				
In blister copper produced In copper sulphate produced In ores and copper matte	223,890,467 183,575	27,965,905 23,831	243,805,331	20,434,685
exported In nickel-copper matte	67,694,448	8,787,636	35,258,939	2,951,174
exported	11,709,866	1,170,987	13,240,120	728,206
TOTAL	303,478,356	37,948,359	292,304,390	24,114,065

WORLD'S PRODUCTION OF COPPER (a)

(In short tons - 2,000 1b.)

Country	1929	1930	1931
NORTH AMERICA:			
United States Mexico Canada Cuba Total North America	1,026,348	710,690 75,365 151,833 17,963 955,851	524,631 58,124 145,632 14,721 743,108
SOUTH AMERICA:			
Bolivia Chile Peru Venezuela	7,700 349,221 59,980	5,400 245,283 52,476	1,900 248,014 48,828 500
Total South America	416,901	303,159	299,342

-- 3--WORLD'S PRODUCTION OF COPPER (a) (continued)

(In short tons - 2,000 1b.)

	1929	1930	1931
EUROPE:			
Austria France Germany Jugoslavia Norway Russia Spain and Portugal Sweden Total Europe (b)	4,293 1,534 32,075 22,790 16,280 40,823 53,599 <u>3,500</u> 174,894	4,493 1,100 29,762 28,064 18,369 53,643 46,475 1,081 182,937	1,000 30,864 26,842 10,741 52,910 36,788 2,238 161,383
ASIA:			
Japan Other Asia	83,189 8,800	87,924 13,000	84.225 19.000
Total Asia Australasia Africa Other countries (b)	91,989 15,979 172,561 5,512	100,924 17,155 181,521 8,000	103,225 15,096 169,332 10,000
GRAND TOTALS	2,127,834	1,7'9,598	1,501,486

(a) So far as possible, these statistics are based on blister copper, referred to countries wherein ore originated, with exclusion of copper derived from junk.
(b) The figures reported for "Other Countries" include some European production.

COPPER CONSUMPTION OF THE WORLD (a) (In metric tons)				
Country	1929	1930	1931	
United States (b) Canada Total America	1,015.500 20,600 1,036,100	733,700 18,000 751,700	545,000 15,600 560,600	
Austria Belgium Czechoslovakia France Germany Great Britain Italy Russia Spain Sweden Switzerland Other Europe	17,300 25,000 14,600 138,200 216,400 14,000 55,000 58,000 14,000 26,500 13,600	13,500 29,000 17,000 131,000 185,900 145,400 50,900 62,000 9,300 27,800 14,900	7,500 27,000 14,000 111,100 160,100 118,400 53,500 63,000 11,300 30,600 11,900	
Total Europe (d) Japan Other Asia (c) Total Asia Africa (c) Australia	<u>35,000</u> 763,300 71,200 <u>8,000</u> 79,200 3,500 9,000	<u>30,000</u> 716,700 70,300 <u>9,000</u> 79,300 3,500 5,000	21,000 629,400 70,400 9,000 79,400 3,000 4,000	
TOTAL WORLD'S CONSUMPTION	1,891,100	1,556,200	1,276,400	

(a) As computed by American Bureau of Metal Statistics except where otherwise noted.
(b) Domestic shipments reported by the American Bureau of Metal Statistics;

 (c) Metallgesellschaft except 1931.
 (d) The consumption herein computed for Europe in 1931 is probably about 40,000 tons too high.

