## Subsection 4.—Lead

Lead has been produced in Canada since 1887, and is obtained largely from the ores of British Columbia. Bounties were paid on lead produced in Canada from 1899 to 1918 but the highest production of this period was 63,200,000 lb. in 1900. However, the successful solving by the Consolidated Mining and Smelting Company, of the metallurgical problems connected with the separation and reduction of these lead-zinc ores accounts to a considerable extent for the rapid growth in lead production during recent years.

In the East and West Kootenay districts of British Columbia there are many important mines, the principal of which is the Sullivan lead-zinc mine near Kimberley which accounts for about 95 p.c. of the total Canadian output. One of the world's largest smelters treats these ores at Trail, B.C. The lead-zinc mines in western Quebec account for most of the remainder of Canada's production, the concentrates from these properties being shipped to the United States for treatment. There was a small production in 1945 from the silver-lead-zinc ores in the Mayo district of Yukon and from northwestern Ontario. Production by provinces in 1945 is shown in Table 6, p. 449. Table 13 gives the total quantities and values of lead produced in Canada from 1936 to 1946.

## 13.—Quantities and Values of Lead Produced from Canadian Ores, 1936-46

Note.—Figures for the years 1887-1910, inclusive, will be found at p. 367 of the 1929 Year Book; for 1911-28 at p. 341 of the 1939 edition; and for 1929-35 at p. 333 of the 1946 edition.

Year	Quantity	Value	Year	Quantity	Value
	lb.	\$		lb.	\$
1936	383, 180, 909 411, 999, 484 418, 927, 660 388, 569, 550 471, 850, 256 460, 167, 005	14, 993, 869 21, 053, 173 14, 008, 941 12, 313, 768 15, 863, 605 15, 470, 815	1942	512, 142, 562 444, 060, 769 304, 582, 198 346, 994, 472 354, 444, 076	17, 218, 233 16, 670, 041 13, 706, 199 17, 349, 723 23, 924, 975

<sup>&</sup>lt;sup>1</sup> Subject to revision.

## Subsection 5.-Nickel

The greater part of the world's output of nickel is produced in Canada and the source of all but a small percentage of the 190,811,179 lb. produced in 1946 came from the nickel-copper ores of the Sudbury district. Some nickel is also obtained as a The nickel-copper industry by-product from the treatment of cobalt-silver ores. includes the mining, smelting and, to a certain extent, the refining of nickel-copper The ore is mined principally for the nickel-copper content, but silver, gold, selenium, tellurium and metals of the platinum group are profitably recovered in the metallurgical processes, although they are present in relatively small quantities. Smelting and copper refining operations are carried on by the International Nickel Company of Canada, Limited, at Copper Cliff, Ont., in close proximity to the mines, The Falconbridge Mines and refined nickel is produced at Port Colborne, Ont. Limited, has a smelter at Falconbridge, Ont., but the matte from this plant is shipped to Norway for refining. During the War, the Falconbridge matte was treated by the International Nickel Company at Copper Cliff.