

### Subsection 3.—Production of Metallic Minerals

The metallic minerals of greatest dollar value to Canada during 1963 were, in order: nickel, iron ore, copper, gold, uranium, zinc, lead and silver. Except for iron ore, which advanced from third place to second, this order remained unchanged from 1962. Developments taking place in metal mining during 1963 are described in detail in Section 1, pp. 543-552. The following statistical information gives a comparison of quantity and value figures for each of the principal metals over the ten-year period 1954-63.

**Nickel.**—The output of nickel in Canada was slightly lower in 1963 than in 1962 because the older mines in Ontario, which are by far the largest producers, continued the cutback in production that commenced in 1962 (see p. 543). The other producing provinces—Quebec, Manitoba and British Columbia—recorded moderately higher quantities than in 1962 but the only mine in the Northwest Territories closed down.

Canada uses only about 5,000 tons of refined nickel (anodes, cathodes and ingots) annually. Exports amounted to 109,156 tons in 1963 compared with 121,712 tons in 1962, most of it going to the United States and Britain; exports of nickel in ores, concentrates and matte, mostly to Britain and Norway, amounted to 83,392 tons compared with 77,409 tons in the previous year.

#### 10.—Nickel Production, by Province, and Total Value 1954-63

Year	Que.	Ont.	Man.	B.C.	N.W.T.	Canada	
						Quantity	Value
	tons	tons	tons	tons	tons	tons	\$
1954.....	—	158,010	3,269	—	—	161,279	180,173,392
1955.....	—	161,161	13,767	—	—	174,928	215,866,007
1956.....	—	167,576	10,939	—	—	178,515	222,204,860
1957.....	—	177,396	10,034	—	528	187,958	258,977,309
1958.....	—	127,144	9,778	704	1,933	139,559	194,142,019
1959.....	—	173,964	10,139	531	1,921	186,555	257,008,801
1960.....	—	201,650	9,059	1,890	1,907	214,506	295,640,279
1961.....	—	196,218	32,978	2,090	1,705	232,991	351,261,720
1962.....	1,540	166,582	61,482	1,738	900	232,242	383,784,622
1963 <sup>p</sup> .....	2,596	149,196	65,007	1,850	—	218,649	362,781,957

**Iron Ore.**—Shipments of iron ore from Canadian mines, which have fluctuated considerably over the past ten years, reached a record high level in 1963. The quantity shipped by each producing province was higher than in 1962, the largest increase being contributed by Newfoundland. Quebec accounted for 39.2 p.c. of the country's output, Newfoundland for 31.2 p.c., Ontario for 22.7 p.c. and British Columbia for the remainder.

Production of pig iron and production of steel ingots and castings were also at their highest levels in 1963. Exports of iron ore—direct shipping grade, concentrated, agglomerated and other forms—amounted to 26,717,570 tons valued at \$270,948,783, a considerable increase over the 1962 totals. Of the 1963 tonnage exported, 76.8 p.c. went to the United States and most of the remainder to Europe, mainly to Britain. Japan received 2,216,227 tons compared with 1,729,866 tons in 1962.