production increased continually in trend to 92,500,000 lb. in 1918, constituting a record. After a slump to 19,293,000 lb. and 17,597,000 lb. in 1921 and 1922 respectively, there was an increase to 73,857,114 lb. in 1925, followed by a drop to 65,714,294 lb. in 1926 and 66,798,717 lb. in 1927.

With the exception of three war years 1916-18, 1925 had the largest production in the history of the industry. Naturally the requirements for munitions and armament during the war created high prices and a very active demand for nickel, stimulating a large production. With the coming of peace this war market vanished and the nickel industry suffered particularly severely in the general depression that followed. However, the producing companies and especially the International Nickel Co. instituted researches to find new peace-time uses for the metal. The success attending their efforts in that direction accounts very largely for the marked recovery in production during the past three years. The automobile industry, electrical machinery, new submarine cables and various nickel alloys are all helping to absorb this increased production.

Sudbury.—The nickel-bearing rocks of the Sudbury district, with a width of about two and one-half miles, form a wide ellipse 36 miles long and 13 miles broad. The ores consist mainly of a mixture of pyrrhotite and chalcopyrite intimately associated with more or less country rock. The nickel occurs in the pyrrhotite as pentlandite and varies somewhat in amount. The ore deposits are of three main types-marginal deposits, offset deposits and vein-like deposits-the marginal having proved the most productive. The Creighton mine, which may be called the greatest nickel mine in the world, is an example of a marginal deposit. The Copper Cliff mine is an example of an offset deposit, while the Vermilion mine is probably the best example of a vein-like deposit, probably formed by hot, circulating waters. The ore mined in the district varies considerably in richness, the average metal content being about 2 to 3 p.c. of nickel, 1½ to 2 p.c. of copper and 45 p.c. iron. Cobalt, gold, silver, platinum and palladium are nearly always present in very small quantities. The matte produced by the International Nickel Co. averages about 54 to 56 p.c. of nickel and about 24 p.c. of copper, while that of the Mond Nickel Co. contains about 41 p.c. each of nickel and of copper.

World's Production.—The world's production of nickel was about 40,632 short tons in 1925, of which output $90\cdot0$ p.c. was Canadian in origin, while about $10\cdot0$ p.c. was derived from the oxidized ores of New Caledonia. The proved deposits of nickel ore in Canada are estimated to contain 2,000,000 tons of nickel, and there are at present large reserves undeveloped.

24.—Quantity and Value of Nickel Produced in Canada during the calendar years 1889-1927.

Years.	Quantity.	Value.	Years.	Quantity.	Value.	Years.	Quantity.	Value.
1889. 1890. 1891. 1892. 1893. 1894. 1895.	lb. 830,477 1,435,742 4,035,347 2,413,717 3,982,982 4,907,430 3,888,525	\$ 498,286 933,232 2,421,208 1,399,956 2,071,151 1,870,958 1,360,984 1,188,990	1902 1903 1904 1905 1906 1907 1908	1b. 10, 693, 410 12, 505, 510 10, 547, 883 18, 876, 315 21, 490, 955 21, 189, 793 19, 143, 111 26, 282, 991	\$,025,903 6,002,204 4,219,153 7,550,526 8,948,834 9,535,407 8,231,538 9,461,877	1915 1916 1917 1918 1919 1920 1921	1b. 68,308,657 82,958,564 82,330,280 92,507,293 44,544,883 61,335,706 19,293,060 17,597,123	\$ 20,492,597 29,035,498 33,732,112 37,002,917 17,817,953 24,534,282 6,752,571 6,158,993
1897 1898 1899 1900	3,997,647 5,517,690 5,744,000	1,399,176 1,820,838 2,067,840 3,327,707 4,594,523	1910 1911 1912 1913 1914	37,271,033 34,098,744	11, 181, 310 10, 229, 623 13, 452, 463 14, 903, 032 13, 655, 381	1923 1924 1925 1926 1927*	62,453,843 69,536,350 73,857,114 65,714,294	18, 332, 077 12,126,7391 15,946,6721 14,374,1631 15,262,171

 $^{^1}$ A change in the method of computing the value of nickel produced accounts for the drop in value after 1923. 2 Preliminary figures.