

for raising and separating the ore and the output from the refinery is produced in nine grades, of which the first four are composed of flake or crystalline graphite of different sizes and with a purity of from 93 to 96 per cent carbon; the next is a mixture of flake and amorphous running about 78 per cent carbon; and the last four are amorphous powders of varying degrees of purity from 54 to 62 per cent. For details of mill, &c., see Bureau of Mines report, Ont., 1903, pp. 132-34.

Other occurrences of graphite are recorded, as in South Canonto on the second range, lot not mentioned, where a small amount of work has been done. Also on lot 2, range VI, Bedford; Dunganon, lot 28, XIII; Loughborough, lot 6, range IX; North Burgess, lot 10, range I; North Elmsley, lot 7, range IX; and at Parry Sound; see Minerals of Ontario, Bureau of Mines, 1900, page 199.

In regard to the western portions of the Dominion including the Rocky mountain area and Pacific coast slopes no records of graphite deposits of economic importance have yet been recorded.

STATISTICS.

The first records of production given in the Geological Survey Production. Reports of the Section of Mines, are for the year 1886, the output for that year being stated as 500 tons with a value of \$4,000. Since that date for about ten years the figures fluctuate and in 1893-4 the output was practically nil. There was a marked revival of the industry in 1895, and since that time the output has increased regularly to 1901, when it reached 2210 tons valued at \$37,780. Owing to the closing of one of the principal mines for a time the output for 1902 declined to 1095 tons valued at \$28,300.

The principal producers during the last year mentioned were the Canada Paint Co. of Fairville, N. B., the North American Graphite Co. of Buckingham, Que.; and the Ontario Graphite Co. of Ontario, operating at Whitefish lake, Brougham township.

The value of graphite in the crude and as manufactured imported in the year 1901 into Canada, was \$77,893 as under.

Plumbago, not ground	\$ 2,357
Black lead	25,346
Plumbago, ground and manufactured, crucibles, &c.	49,890
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	\$77,893