

LABORATORY

OF THE

INLAND REVENUE DEPARTMENT.

BULLETIN No. 81.

FERTILIZERS.

OTTAWA, June 26, 1902.

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Deputy Minister of Inland Revenue.

SIR,—In accordance with the provisions of the Fertilizers Act, 1890, which requires manufacturers or importers to transmit standard samples to the Department of the goods they propose to sell in Canada, 106 such samples were received during the past year and have been analysed in this laboratory. Table I., accompanying this Bulletin, gives the results of examining these standard samples, together with the statements of their manufacturers or importers. The commercial names of the various brands, and the guaranteed analyses of the materials from which they were produced, and the guaranteed analyses of the manufacturers will also be found recorded in Table I. It will be observed that the upper line opposite each brand gives the percentages of fertilizing constituents guaranteed by the manufacturers, and the lower line the results of the analyses carried out in this laboratory. As required by the Act the table also contains a column in which 'the relative value of each fertilizer calculated from its contents in fertilizing ingredients is given,' the prices of these ingredients being as follows:—

	Cents per pound.
Nitrogen in salts of ammonia or nitrates.....	13
Organic nitrogen in ground bone, fish, blood or tankage...	12
Phosphoric acid, soluble in water.....	6
" soluble in a 1 p.c. solution of citric acid.....	5½
" insoluble, in Thomas' Phosphate Powder.....	3½
" insoluble, in ground rock phosphate or in compound fertilizers.....	1½
Potash, contained in wood ashes.....	6
" from high grade potash salts.....	5½