

MANURIAL TRIALS WITH WHEAT AT CARTERTON.

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FOR the past two seasons the Department has conducted a manurial trial with wheat on the farm of Mr. M. C. Jansen, at Carterton, in the Wairarapa district. The ground selected for experiment was a fairly heavy loam having at a depth of from 9 in. to 12 in. an ironstone subsoil. The land was worked out of the lea, being skim-ploughed in June and cross-ploughed late in July, 1922. Lime in the ground carbonate form was applied at the rate of $1\frac{1}{2}$ tons per acre in August on part of the area (plots 6 to 9). The wheat was sown early in September, the variety being Solid-straw Tuscan. Manure, where applied, was sown at the same time as the wheat, from the manure-box of the drill.



GENERAL VIEW OF THE WHEAT CROP ON MR. JANSEN'S FARM:
SECOND SEASON.

During the growing-period of the first season there were 1.0 marked differences to be seen among the various plots. During the second season, however, when the same variety of wheat was sown, but neither lime nor manure again applied, marked differences were perceptible, as the following notes made in January, 1923, on the occasion of a farmers' field-day, will show:—

Plot 1, control: On this plot the crop is fair, except on one corner where the proximity to some gum-trees has accounted for the total absence of growth.

Plot 2, Nauru ground rock phosphate: The wheat on this plot has headed far better than has that on No. 1, where neither lime nor manure has been used. A much larger percentage of this wheat shows signs of rapidly approaching maturity.