

SERPENTINE SUPERPHOSPHATE

Experiments with serpentine superphosphate have shown that, applied at the same rate as superphosphate on grassland, it has given equally good results in a number of districts, and the same effect is seen on

most of the common farm crops throughout the Dominion. The saving of phosphate where the new mixture is giving such satisfactory results under the conditions described is of considerable practical importance.

Recommendations for Use Of the New Mixture



An outcrop of serpentine rock on D'Urville Island.

T the beginning of 1940 two factors made essential an immediate and comprehensive experimental programme with serpentine superphosphate—(1) the promising results of preliminary trials with the new manure, and (2) the possibility of a shortage of phosphatic fertilisers, later to become an unpleasant reality. Data from a large number of trials is now sufficiently complete to make possible an estimate of the value of serpentine superphosphate and to give recommendations regarding its use.

Early Work

A. G. ELLIOTT, Crop Experimentalist, and P. B. LYNCH, Assistant Crop Experimentalist, Wellington. material and the workers associated mental programme was begun.

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with its early development. Interest indications from this work were sufin the possibilities of serpentine was ficiently promising to warrant the aroused as a result of Russian investi- comprehensive investigation that was gations into the mixing of dunite (a subsequently carried out. rock usually containing the mineral with serpentine) Various Divisions of the Departments chemical behaviour of the mixture, it of Agriculture and of Scientific and is intended to restrict the present Industrial Research in New Zealand article to a description of the practhen co-operated with superphosphate tical value of serpentine superphosmanufacturers to produce small quan- phate to farmers, and to summarise In the "Journal" for April, 1940, an tities of a superphosphate serpentine the results of trials carried out by the account is given of the history of the mixture, and a preliminary experi- Fields Division.

While much work has been done on superphosphate. the manufacturing details and on the