

## CO-OPERATIVE EXPERIMENT RECORD.

### SOUTH ISLAND.

A. MACPHERSON.

#### NEW VARIETIES OF PLANTS UNDER TEST.

THE following new varieties of seeds of roots, forage plants, and clovers, introduced by the Fields Division of the Department of Agriculture, Industries, and Commerce, are being used in connection with the South Island co-operative experiments of the 1912-13 season:—

*Kohl-rabi* (from Barteldes Seed Company, Lawrence, Kansas).

*Early White Vienna*; *Early Purple Vienna*.

*Swedes* (from Portland Seed Company, Portland, Oregon).

*Bangholm Pajbjerg, Improved Danish Purple-top*.—This variety was awarded a first-class certificate by the Danish Government for heaviest yield, having given 49 tons per acre. In shape it is a little more elongated than the Globe types. This variety is recommended as the best of its class.

*White Sweet Russian*.—This variety is excellent either for table or stock. It grows to a very large size. Flesh white, solid, of a firm texture, sweet and rich. An excellent keeper.

*Swedes* (from D. M. Ferry and Co., Detroit, Michigan).

*Hartley's Bronze-top*.—A very large, oval swede, with very short neck. The colour of the root is yellow, with bronze-green top. This is a favourite sort in Canada, and can be depended upon to give good results.

*Universal, or Canadian Gem*.—Roots nearly round, purple above ground, yellow beneath. Very small in top and neck. Flesh yellow, and of excellent quality. Exceptionally hardy and vigorous. Sometimes sold as "Century."

*Perfection White*.—Absolutely neckless. Tops small, strap-leaved. Flesh white and unusually fine-grained. Vigorous in growth, and usually yields better than the yellow-fleshed sorts. While valuable for stock-feeding, the white flesh is so excellent in quality that it is particularly desirable for table use.

*Yellow Swede*.—Shape oblong; dull reddish colour above ground, but yellow underneath; is hardier than the common turnip, and will keep solid until spring.

*Swedes* (from Montgomery and Co.).

*Springwood Purple-top*.—Globular shape, small top; very fine, firm flesh.

*Edina Purple-top*.—Hardest of all. Brownish, thick, leathery skin, resisting severe frosts. Particularly free from mildew and finger-and-toe. Rich juicy flesh.

*Triumph Purple-top*.—Extra fine selection from Drummond's Improved Standard. Large-growing variety.

*Harrietfield Bronze-top*.—Globular shape, small top; grows great size with neat tap-root. Flesh deep-golden colour.

*Mangels* (from Portland Seed Company, Portland, Oregon).

*Danish Sludstrup*.—This new mangel comes highly recommended. Our seed is direct from the originator. We give his descriptions, as follows: "Long, reddish-yellow, grows well above ground, and is easy to pull. Has repeatedly been awarded a first-class certificate by the Danish Government, and is doubtless the best mangel in the world."