

CO-OPERATIVE EXPERIMENT RECORD.

TURNIPS, YELLOW AND WHITE FLESHED.

SOUTH ISLAND.

1911-12.

A. MACPHERSON.

KAIKOURA DISTRICT.

Manurial and Variety Tests, conducted by J. A. Coup, Kaikoura Suburban.

THE land selected was a clayey loam, uniform in character, and was in English grass for about eleven years prior to being ploughed up for the tests in November, 1911, when it was ploughed 6 in. deep. It was afterwards disc-harrowed three times, tine-harrowed twice, and rolled once at the beginning of December, 1911. In the manurial test the area was divided into seven manurial plots and one unmanured as a test plot. Plots one-tenth acre each. The fertilizers applied were according to a scheme designed by the Chief Agricultural Chemist. The variety of seed sown was Fosterton Hybrid. In the variety test 1½ cwt. superphosphate per acre was applied. The seeds and fertilizers were sown on the flat in rows 14 in. apart on 16th December, 1911. The roots were pulled and weighed on 25th May, 1912. Results:—

MANURIAL TEST.

Plot.	Manures per Acre.	Cost per Acre.	Weight of Crop per Acre.		Effect of Manuring.
			Roots.	Tops.	
1	Superphosphate, 1½ cwt. ..	£ s. d. 0 7 2	Tons. 22-30	Tons. 2-94	Tons. Gain, 12-70
2	Superphosphate, 3 cwt. ..	0 14 3	26-34	4-16	„ 16-74
3	Superphosphate, 2 cwt.; bone-dust, ¾ cwt. ..	0 14 0	25-60	3-95	„ 16-00
4	No manure	9-60	1-85	..
5	Same as No. 3 mixture; sulphate of potash, 28 lb. ..	0 17 9	19-44	3-19	Gain, 9-84
6	No. 5 mixture, 1½ cwt. ..	0 8 11	20-70	2-56	„ 11-10
7	Same as No. 6 mixture; salt, 14 lb. ..	0 9 2	19-19	2-43	„ 9-59
8	Albatross guano, 2 cwt. ..	0 10 0	14-90	2-01	„ 5-30

VARIETY TEST.

Plot.	Variety.	Crop per Acre.	
		Roots.	Tops.
	Yellow-fleshed—		
1	Garton's Green-top Scotch	Tons. 18-18	Tons. 2-40
2	„ Purple-top Scotch	11-86	1-39
3	„ Inche's Bronze-top	12-38	1-26
4	„ Old Meldrum	11-52	1-01
5	„ Stobo, Blue	15-91	1-77
6	Challenge—Waite's Eclipse	19-19	2-52
7	„ Dale's Hybrid	19-95	2-64
8	Sutton's All the Year Round	9-09	0-50
9	„ Centenary	25-00	1-26
10	„ Early Sheepfold	16-67	0-75
11	„ Favourite Purple-top	25-00	2-02
12	„ Perfection Green-top	24-75	1-09
13	„ Romney Marsh	31-06	1-09