

Inspector McLeod reports: Owing to the wet weather the turnips were not sown until 9th January, 1912, being rather too late a date for the district. Heavy rain set in after being sown, causing a stoppage of the growth. The grub did considerable damage to plants in the manurial plots and also among the variety plots. The land was well worked and in good condition to receive the seed, but owing to the unfavourable weather experienced and the ravages of the grub the yield was under the normal.

## BALCLUTHA DISTRICT.

*Variety Test, conducted by Joseph Mosley, Inch-Clutha, Stirling.*

The land selected for the experiment was a sandy loam, and was in grass in 1906, in turnips 1907-8, in wheat 1909, and in oats 1910. It was ploughed for this experiment on 8th February, 1911; cultivated and tine-harrowed on 8th February; disced, ploughed on 4th April; ploughed 6 in. on 10th July and 9th September; cultivated and tine-harrowed on 9th September; ploughed on 10th October; tine-harrowed on 12th October and 28th December, 1911. In the test 2 cwt. Challenge manure per acre was applied. The seeds and fertilizers were sown in raised drills on 29th December, 1911; drills 26 in. apart. The roots were pulled and weighed on 20th June, 1912. Results:—

Plot.	Variety.	Crop per Acre.	
		Roots.	Tops.
	Yellow-fleshed—	Tons.	Tons.
1	Garton's Green-top Scotch .. .. .	31-01	12-78
2	„ Purple-top Scotch .. .. .	26-52	11-42
3	„ Inche's Bronze-top .. .. .	19-86	8-16
4	„ Old Meldrum .. .. .	22-30	9-25
5	„ Stobo, Blue .. .. .	27-13	10-88
6	Challenge—Waite's Eclipse .. .. .	28-02	11-15
7	„ Dale's Hybrid .. .. .	28-83	8-51
8	Sutton's All the Year Round .. .. .	33-73	5-30
9	„ Centenary .. .. .	44-61	11-42
10	„ Early Sheepfold .. .. .	29-51	6-80
11	„ Favourite Purple-top .. .. .	33-46	10-61
12	„ Perfection Green-top .. .. .	26-25	5-44
13	„ Romney Marsh .. .. .	37-68	10-88
14	Montgomery's Aberdeen Green-top Yellow .. .. .	22-71	9-25
15	„ Aberdeen Purple-top Yellow .. .. .	28-70	11-97
16	„ Fosterton Hybrid .. .. .	31-42	10-88
17	„ Green-top Yellow Tankard .. .. .	31-01	15-77
18	Nimmo and Blair's Challenger .. .. .	21-62	8-97
	White-fleshed—		
19	Garton's Hardy Green Globe .. .. .	36-45	12-24
20	Sutton's Red Paragon .. .. .	34-27	10-61
21	„ Early Six Weeks .. .. .	42-84	10-61
22	„ Purple-top Mammoth .. .. .	32-64	5-98
23	„ Pomeranian White Globe .. .. .	41-08	13-87
24	„ Imperial Green Globe .. .. .	41-62	8-43
25	Montgomery's White Stone .. .. .	42-98	13-05
26	„ Devonshire Greystone .. .. .	33-59	10-33
27	„ Lincolnshire Red Globe .. .. .	29-11	11-97

*Manurial and Variety Tests, conducted by Adam Houliston, Kakapuaka.*

The land selected was a clayey loam, and was in lea for six years previously to being ploughed up on 4th April, 1911. It was double-disced on 16th October, and grubbed on 20th October, 1911; tine-harrowed on 9th November, and Cambridge-rolled on 18th November, 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 2½ cwt. per acre of Surprise Island guano was applied. The seeds and fertilizers were sown in raised drills