

14th November, 1911; drills 26 in. apart. The roots were pulled and weighed on 24th June, 1912. Results:—

MANURIAL TEST.

Plot.	Manures per Acre.	Cost per Acre.	Weight of Crop per Acre.		Effect of Manuring.
			Roots.	Tops.	
		£ s. d.	Tons.	Tons.	Tons.
1	Superphosphate, 1½ cwt. ..	0 7 2	18.69	2.61	Gain, 8.97
2	Superphosphate, 3 cwt. ..	0 14 3	22.81	2.80	„ 13.09
3	Superphosphate, 2 cwt.; bone-dust, ¾ cwt. ..	0 14 0	22.25	2.80	„ 12.53
4	No manure	9.72	1.68	..
5	Same as No. 3 mixture; sulphate of potash, 28 lb. ..	0 17 9	19.07	2.61	Gain, 9.35
6	No. 5 mixture, 1½ cwt. ..	0 8 11	19.63	3.00	„ 9.91
7	Same as No. 6 mixture; salt, 14 lb. ..	0 9 2	20.93	2.61	„ 11.21
8	Albatross guano, 2 cwt. ..	0 10 0	14.95	1.86	„ 5.23

VARIETY TEST.

Plot.	Variety.	Crop per Acre.	
		Roots.	Tops.
	Yellow-fleshed—	Tons.	Tons.
1	Garton's Green-top Scotch	22.31	3.53
2	„ Purple-top Scotch	20.40	2.99
3	„ Inche's Bronze-top	13.60	2.72
4	„ Old Meldrum	13.05	2.72
5	„ Stobo, Blue	16.59	3.81
6	Challenge—Waite's Eclipse	15.23	3.26
7	„ Dale's Hybrid	14.69	2.17
8	Sutton's All the Year Round	14.69	1.63
9	„ Centenary	14.69	1.63
10	„ Early Sheepfold	14.69	3.26
11	„ Favourite Purple-top	18.50	4.35
12	„ Perfection Green-top	19.86	3.53
13	„ Romney Marsh	18.50	3.26
14	Montgomery's Aberdeen Green-top Yellow	11.42	2.72
15	„ Aberdeen Purple-top Yellow	19.04	2.99
16	„ Fosterton Hybrid	20.13	3.26
17	„ Green-top Yellow Tankard	20.13	5.44
18	Nimmo and Blair's Challenger.. ..	10.88	1.63
	White-fleshed—		
19	Garton's Hardy Green Globe	19.04	3.26
20	Sutton's Red Paragon	18.50	2.17
21	„ Early Six Weeks	22.85	3.80
22	„ Purple-top Mammoth.. ..	24.76	3.25
23	„ Pomeranian White Globe	19.58	3.53
24	„ Imperial Green Globe	25.57	3.80
25	Montgomery's White Stone	14.69	2.99
26	„ Devonshire Greystone	29.38	4.08
27	„ Lincolnshire Red Globe	22.30	4.08

Inspector Dalgliesh reports: In both tests the experiment was very unsatisfactory. Although a good braird, the fly or grub played havoc, with the result that there were many blanks. The wet weather greatly retarded growth, and it was impossible to give proper attention to cleaning.

Manurial and Variety Tests, conducted by Matthew Dalgliesh, Puketahu, Palmerston.

The land selected was marly, with a clay subsoil. It was in grass in 1906, 1907, and 1908; broken up in 1909 and a crop of wheat taken off; in turnips in 1910. It was ploughed 5 in. deep on 21st September, 1911; disced three times and rolled,