

23rd September; tine-harrowed, disced twice, tine-harrowed twice, and rolled once in October, and thrown into raised drills on 11th 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 3 cwt. National Mortgage and Agency Company's special turnip-manure was applied. The seeds and fertilizers were sown in raised drills on 13th November, 1911; drills 28 in. apart. The roots were pulled and weighed on 2nd July, 1912. Results:—

MANURIAL TEST.

Plot.	Manures per Acre.	Cost per Acre.	Weight of Crop per Acre.		Effect of Manuring.	
			Roots.	Tops.	Gain.	Tons.
1	Superphosphate, 1½ cwt. ..	£ s. d. 0 7 2	Tons. 29.80	Tons. 4.55	Gain,	Tons. 2.02
2	Superphosphate, 3 cwt. ..	0 14 3	31.82	3.28	„	4.04
3	Superphosphate, 3 cwt.; bone-dust, ¾ cwt. ..	0 14 0	32.32	3.79	„	4.54
4	No manure	27.78	2.78
5	Same as No. 3 mixture; sulphate of potash, 28 lb. ..	0 17 9	28.79	3.54	Gain,	1.01
6	No. 5 mixture, 1½ cwt. ..	0 8 11	30.81	4.55	„	3.03
7	Same as No. 6 mixture; salt, 14 lb. ..	0 9 2	33.34	5.05	„	5.56
8	Albatross guano, 2 cwt. ..	0 10 0	28.79	4.55	„	1.01

VARIETY TEST.

Plot.	Variety.	Crop per Acre.	
		Roots.	Tops.
	Yellow-fleshed—		
1	Garton's Green-top Scotch	Tons. 16.42	Tons. 4.04
2	„ Purple-top Scotch	18.94	3.54
3	„ Inche's Bronze-top	18.69	4.54
4	„ Old Meldrum	14.65	4.04
5	„ Stobo, Blue	13.63	3.03
6	Challenge—Waite's Eclipse	15.65	2.50
7	„ Dale's Hybrid	18.43	3.03
8	Sutton's All the Year Round	19.44	3.54
9	„ Centenary	19.44	2.90
10	„ Early Sheepfold	19.70	2.78
11	„ Favourite Purple-top	21.21	2.58
12	„ Perfection Green-top	17.80	2.02
13	„ Romney Marsh	19.19	2.27
14	Montgomery's Aberdeen Green-top Yellow	21.47	3.54
15	„ Aberdeen Purple-top Yellow	28.28	3.91
16	„ Fosterton Hybrid	29.29	3.28
17	„ Green-top Yellow Tankard	28.28	6.56
18	Nimmo and Blair's Challenger.. ..	21.33	3.28
	White-fleshed—		
19	Garton's Hardy Green Globe	33.34	6.82
20	Sutton's Red Paragon	30.30	7.82
21	„ Early Six Weeks	29.29	6.56
22	„ Purple-top Mammoth.. ..	27.27	6.31
23	„ Pomeranian White Globe	24.75	6.31
24	„ Imperial Green Globe	26.01	5.81
25	Montgomery's White Stone	31.06	6.82
26	„ Devonshire Greystone	24.24	6.56
27	„ Lincolnshire Red Globe	26.77	6.31

Inspector Dalglish reports: The land was not as clean as it should be for the experiment, and the wet season prevented the necessary intercultivation being given during the growth of the crop to keep the weeds in check.