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 $1\frac{1}{2}$ cwt. Challenge and $\frac{1}{2}$ cwt. turnip-starter was applied per acre. The seeds and fertilizers were sown in raised drills on 27th December, 1911; drills 26 in. apart. The roots were pulled and weighed on 28th May, 1912. Results:—

MANURIAL TEST.

Plot.	Manures per Acre.	Cost per Acre.			Weight of Cro	Effect of		
					Roots.	Tops.	Manuring.	
		£	s.		Tons.	Tons.	-	Tons
1	Superphosphate, 1½ cwt	0	7	2	10.61	2.99	Gain,	3.54
2	Superphosphate, 3 cwt	0	14	3	16.32	2.72	,,	9.25
3	Superphosphate, 2 cwt.; bonedust, 3 cwt.	0	14	0	18.50	2.99	"	11.43
4	No manure				7.07	1.36		
5	Same as No. 3 mixture; sulphate of potash, 28 lb.	0	17	9	13.33	2.72	Gain,	
6	No. 5 mixture, 1½ cwt	0	8	11	14.96	3.26	,,	7.89
7	Same as No. 6 mixture; salt, 14 lb.	0	9	2	14.69	2.99	"	7.52
8	Albatross guano, 2 cwt	0	10	0	15.50	1.90	"	8.43

VARIETY TEST.

			Crop per Acre.			
Plot.	Variety.	Roots.	Tops			
	Yellow-fleshed—				Tons.	Tons
1	Cantonia Chann ton Contab				10·33	2.99
2	,, Purple-top Scotch				16.05	4.08
3	To all the Donners donn				12.51	3.26
4	011 35 11				14.41	3.53
5	Chales Dlas			• •	14.14	4.62
6	01 11 277 1 1 77 11				13.05	3.80
7	Challenge—Waite's Eclipse	*****			13.05	5.16
8	COLUMN AND AND A					
	0 1		* * * *		11.69	2.44
9	" Centenary	***	***		15.23	3.53
10	" Early Sheepfold				17.68	3.53
11	,, Favourite Purple-top	- 1.			17.95	4.62
12	,, Perfection Green-top	***			19.86	3.53
13	" Romney Marsh				25.02	5.44
14	·Montgomery's Aberdeen Green-to				17.13	4.62
15	,, Aberdeen Purple-to	op Yellow			7.88	2.99
16	,, Fosterton Hybrid		4.4		15.23	3.80
17	" Green-top Yellow	Tankard			17.13	6.25
18	Nimmo and Blair's Challenger White-fleshed—				16.86	4.89
19	Garton's Hardy Green Globe				25.84	5.98
20	Sutton's Red Paragon	1.			19.86	2.06
21	" Early Six Weeks				22.58	3.53
22	,, Purple-top Mammoth				36.45	7.07
23	,, Pomeranian White Globe	е			13.60	3.53
24	,, Imperial Green Globe				21.22	3.53
25	Montgomery's White Stone				27.20	5.16
26	" Devonshire Greyste				19.86	4.89
27	,, Lincolnshire Red C				28.56	8.43

Manurial and Variety Tests, conducted by Jasper Clark, Lovell's Flat.

The land selected for the experiment was a clayey loam, and was in lea 1906–8 in wheat 1909, in oats 1910. It was ploughed for this experiment 7 in. deep on 4th