

VARIETY TEST.

Plot.	Variety.	Crop per Acre.	
		Roots.	Tops.
	Yellow-fleshed— <i>continued.</i>	Tons.	Tons.
8	Sutton's All the Year Round	13-05	2-44
9	„ Centenary	39-90	5-71
10	„ Early Sheepfold	31-01	4-08
11	„ Favourite Purple-top.. .. .	26-38	4-35
12	„ Perfection Green-top	26-93	3-80
13	„ Romney Marsh	31-01	3-26
14	Montgomery's Aberdeen Green-top Yellow	20-13	4-35
15	„ Aberdeen Purple-top Yellow	25-84	4-89
16	„ Fosterton Hybrid	28-29	4-89
17	„ Green-top Yellow Tankard	24-21	5-71
18	Nimmo and Blair's Challenger	20-40	4-61
	White-fleshed—		
19	Garton's Hardy Green Globe	38-91	5-16
20	Sutton's Red Paragon	33-19	4-08
21	„ Early Six Weeks	35-91	3-53
22	„ Purple-top Mammoth	39-44	4-89
23	„ Pomeranian White Globe	26-38	4-89
24	„ Imperial Green Globe	27-75	3-80
25	Montgomery's White Stone	34-55	4-89
26	„ Devonshire Greystone	39-44	6-52
27	„ Lincolnshire Red Globe	38-36	5-98

Inspector McCulloch reports: The land was in excellent tilth to receive the seed. In the manurial test the braird was very good. In the variety test it was far too thin, and appeared as if the seeding was not heavy enough. The cold wet weather at time of sowing and brairding no doubt also had an injurious effect. The crop grew well after being established, and was healthy.

Manurial and Variety Tests, conducted by G. M. Love, Moa Flat, Heriot.

The land selected was a clayey loam on clay subsoil, and was in pasture nine years previous to 1906, in turnips 1907, in oats 1908, grass crop 1909, in pasture 1910-11; ploughed out of lea for this experiment in June, 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 $1\frac{1}{2}$ cwt. Rockland turnip-manure was applied per acre. The seeds and fertilizers were sown on 6th December, 1911, in drills 26 in. apart. The roots were pulled and weighed on 9th July, 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, $1\frac{1}{2}$ cwt.	0 7 2	26-11	6-80	Gain, 3-26
2	Superphosphate, 3 cwt.	0 14 3	27-20	5-71	„ 4-35
3	Superphosphate, 2 cwt.; bone-dust, $\frac{3}{4}$ cwt.	0 14 0	26-93	4-35	„ 4-08
4	No manure	22-85	4-61	..
5	Same as No. 3 mixture; sulphate of potash, 28 lb.	0 17 9	21-76	2-44	Loss, 1-03
6	No. 5 mixture, $1\frac{1}{2}$ cwt.	0 8 11	23-66	4-08	Gain, 0-81
7	Same as No. 6 mixture; salt, 14 lb.	0 9 2	26-38	4-35	„ 3-53
8	Albatross guano, 2 cwt.	0 10 0	14-14	2-44	Loss, 8-71