

VARIETY TEST.

Plot.	Variety.	Crop per Acre.	
		Roots.	Tops.
	White-fleshed— <i>continued.</i>		
23	Sutton's Pomeranian White Globe	Tons. 20.67	Tons. 3.26
24	„ Imperial Green Globe	24.48	2.99
25	Montgomery's White Stone	26.38	4.08
26	„ Devonshire Greystone	31.01	4.35
27	„ Lincolnshire Red Globe	32.92	5.16

Inspector McCulloch reports: Both in the manurial and variety tests there was a good braird. Seasonable weather followed, consequently the crops were good and sound.

Manurial and Variety Tests, conducted by Robert Potts, Crookston.

The land selected was a clayey loam on clay subsoil, and in 1903 was in turnips, in 1904 wheat, in 1905 oats and grass, in 1906 to 1910 in pasture. Ploughed for this experiment on 6th June, 1911, and sown with $4\frac{1}{2}$ cwt. of ground lime per acre, and in the middle of August sown again with 4 cwt. of lime per acre. Disc-harrowed in June; disc-harrowed and clod-crushed in October, 1911; harrowed immediately before sowing in December, 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 2 cwt. Mataura turnip-fertilizer per acre was applied. The seeds and fertilizers were sown in raised drills on 4th December, 1911; drills 26 in. apart. The roots were pulled and weighed on 17th May, 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	23.94	6.80	Gain, 3.27
2	Superphosphate, 3 cwt.	0 14 3	28.56	9.79	„ 7.89
3	Superphosphate, 2 cwt.; bone-dust, $\frac{3}{4}$ cwt.	0 14 0	31.28	8.16	„ 10.61
4	No manure	20.67	6.80
5	Same as No. 3 mixture; sulphate of potash, 28 lb.	0 17 9	38.63	10.33	Gain, 17.96
6	No. 5 mixture, $1\frac{1}{2}$ cwt.	0 8 11	29.92	7.61	„ 9.27
7	Same as No. 6 mixture; salt, 14 lb.	0 9 2	32.64	10.33	„ 11.97
8	Albatross guano, 2 cwt.	0 10 0	15.23	5.44	Loss, 5.44

VARIETY TEST.

Plot.	Variety.	Crop per Acre.	
		Roots.	Tops.
	Yellow-fleshed—		
1	Garton's Green-top Scotch	Tons. 31.55	Tons. 7.61
2	„ Purple-top Scotch	31.55	8.43
3	„ Inche's Bronze-top	23.94	4.61
4	„ Old Meldrum	23.39	5.16
5	„ Stobo, Blue	23.39	5.44
6	Challenge—Waite's Eclipse	31.01	6.25
7	„ Dale's Hybrid	31.28	5.28