VARIETY TEST.

Plot.	Variety.	Crop per Acre.	
		Roots.	Tops.
	Yellow-fleshed—*continued.*	Tons.	Tons.
8	Sutton's All the Year Round	37·04	4·63
9	,, Centenary	21·76	4·63
10	,, Early Sheepfold	21·76	4·63
11	,, Favourite Purple-top	37·04	4·63
12	,, Perfection Green-top	42·13	4·63
13	,, Romney Marsh	34·26	3·24
14	Montgomery's Aberdeen Green-top Yellow	29·16	3·24
15	,, Aberdeen Purple-top Yellow	49·54	4·63
16	,, Fosterton Hybrid	40·74	4·63
17	,, Green-top Yellow Tankard	40·28	4·63
18	Nimmo and Blair's Challenger..	40·28	4·63
	White-fleshed—		
19	Garton's Hardy Green Globe	46·30	4·63
20	Sutton's Red Paragon	47·22	4·63
21	,, Early Six Weeks	41·67	4·63
22	,, Purple-top Mammoth..	49·54	4·63
23	,, Pomeranian White Globe	50·93	3·24
24	,, Imperial Green Globe	51·85	4·63
25	Montgomery's White Stone	51·85	4·63
26	,, Devonshire Greystone	54·17	4·63
27	,, Lincolnshire Red Globe	47·22	4·63

Inspector Taylor reports: Nos. 5, 14, 17, were rather deeply rooted. No. 15, a splendid sound turnip. No. 18, a very hardy and sound turnip. No. 19, very large and sound.

Manurial and Variety Tests, conducted at Waitaki Boys' High School, Oamaru.

The tests were carried out on the school experimental area, the soil being light, of rather poor quality, on a clay subsoil. It was in grass for some years prior to 1910, when it was ploughed up and a crop of potatoes taken. For present experiment it was ploughed in August, 1911, and disced and tine-harrowed several times in September, and grubbed and hoed by pupils of the agricultural class in October, 1911. In the manurial test the area was divided into seven manurial plots and one unmanured as a test plot. 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 no manures were applied. The seeds and fertilizers were sown in raised drills on 6th November, 1911; drills 26 in. apart. The roots were pulled and weighed on 14th 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, 1½ cwt. ..	0 7 2	11·61	1·89	Gain, 4·59
2	Superphosphate, 3 cwt. ..	0 14 3	12·83	2·16	,, 5·81
3	Superphosphate, 2 cwt.; bone-dust, ¾ cwt.	0 14 0	12·42	2·16	,, 5·40
4	No manure ..		7·02	1·21	..
5	Same as No. 3 mixture; sulphate of potash, 28 lb.	0 17 9	9·45	1·62	Gain, 2·43
6	No. 5 mixture, 1½ cwt... ..	0 8 11	9·59	1·62	,, 2·57
7	Same as No. 6 mixture; salt, 14 lb.	0 9 2	9·31	1·75	,, 2·29
8	Albatross guano, 2 cwt. ..	0 10 0	10·80	1·62	,, 3·78