MANURE-QUANTITY TRIAL: SWEDES.—J. W. SIMPSON.

Manure (1 of Bones to 2 of Super).	Cost per Acre.			Value of Manure.			Total Cost.			Yield.	Value at 5s. per Ton.			Profit.			Loss.		
	£	s.	d.	£	s.	d.	£	s.	d.	Tons cwt.	£	s.	d.	£	s.	d.	£	s.	d.
No manure ..	2	2	3		..		2	2	3	..		..			..		2	2	3
1 cwt. bones and super	2	2	3	0	5	11	2	8	2	7 15	1	18	9		..		0	9	5
2 cwt. bones and super	2	2	3	0	11	10	2	14	1	9 13	2	8	3		..		0	5	10
3 cwt. bones and super	2	2	3	0	17	10	3	0	1	12 17	3	4	3	0	4	2		..	
4 cwt. bones and super	2	2	3	1	3	9	3	6	0	18 4	4	11	0	1	5	0		..	
5 cwt. bones and super	2	2	3	1	9	8	3	11	11	17 16	4	9	0	0	17	1		..	
6 cwt. bones and super	2	2	3	1	15	1	3	17	4	14 9	3	12	3		..		0	5	1

VARIETY TRIALS.

Trials were conducted with swedes and soft turnips. The following tables show the yields per acre, also the percentage yields. Every fifth plot throughout the trials was a check plot. In spite of the fact that the land selected for the experiments appeared quite uniform there is rather marked variation in the check plots. For example, in Mr. Cranswick's trial, plots 3, 8, 13, and 18 were check plots, receiving the same treatment, and all sown with Garton's Superlative. The yields, however, gradually increased from plot 3 towards plot 18, as follows: 10 tons 18 cwt., 13 tons 15 cwt., 15 tons 18 cwt., 16 tons 9 cwt. We must therefore suppose that the yielding-power of the land gradually increases from plot 3 towards plot 18. It would then be unfair to compare a variety growing near plot 3 with one growing near plot 18. It is therefore necessary to take into account the varying nature of the land, as follows: If plot 3 yielded 10 tons 18 cwt. and plot 8 13 tons 15 cwt., it is reasonable to suppose that the increase was *gradual*, and this gradually increasing yielding-power is termed the "natural yield" of the land.

The following table shows in the second column the actual yields, and in the third the natural yields, of plots 3 to 8.

No. of Plot.	Actual Yield.	Natural Yield.	Percentage Yields.
	Tons cwt.	Tons cwt.	
3 (check)	10 18	10 18	100
4	8 19	11 10	78
5	11 12	12 2	96
6	16 12	12 14	130
7	12 10	13 7	94
8 (check)	13 15	13 15	100