MANURES on CEREALS, to show the Value of Nitrogen compared with Phosphates, or Potash, or both.

No. of Plot.	Kind of Manure.				Weight per Acre.	Remarks.
1 2 3 4 5 6 7 8 9 10	Nothing Nitrate of soda Superphosphate of I Kainit Ground bones Nothing Farmyard Nitrate of soda Superphosphate Kainit Superphosphate Nitrate of soda Bones Nitrate of soda Bones Nitrate of soda Superphosphate Kainit	       		 oluble   	280 lb. 336 ,, 300 ,, 336 ,, 15 loads 280 lb. 336 ,, 300 ,, 336 ,, 280 ,, 336 ,, 280 ,, 336 ,, 280 ,, 336 ,, 300 ,,	Plots=2 acres each. The whole area was, more or less, attacked by small birds; the yield of each plot was therefore not taken. Plots Nos. 2, 7, 8, 10, and 11 were, however, decidedly the best. A second trial in case of a few plots was not more successful. Such experiments can only be carried out on plots in the middle of a large field of grain. These experiments were not continued last year, but will be again taken in hand.

On Roots.—Plot experiments were not successful, a plant not always being obtained. In the field, trials have been several times made to test the value of special manures. In all cases the manured land yielded better crops than the unmanured, sometimes very much so, and in more than one instance made apparently the difference between a good crop and none: i.e., the drills where no manure was used produced very few small turnips, whilst those adjacent, manured, produced a large

Turnips are generally sown with the water-drill-about 600 gallons of water and 2 cwt. superphosphate of lime per acre. In no instance on the farm has a crop so drilled been a failure, or even a partial failure, whilst sowing turnip-seed broadcast has failed to produce a crop, even after three sowings. So far the water-drill seems to insure a plant, whilst in broadcast sowing everything depends upon the weather. The cost of manure, of water, and extra labour in drilling amounts to something

less than 20s. per acre.