

Table 5.—Results of G. H. Cross's Experiment.

Treatment per Acre.	Bushels per Acre.		Remarks.	Profit per Acre.
	Yields.	Increase over No Manure.		
(1) No manure ..	23·0
(2) Super 1 cwt. ..	29·7	6·7	Significant increase ..	27s. 6d.
(3) Super 1 cwt., plus muriate of potash 1 cwt.	28·0	5·0	Not significantly different from super	4s. 6d.
(4) Super 1 cwt., plus nitrate of soda 1 cwt.	32·8	9·8	Significantly better than super	27s. 6d.
(5) Super 1 cwt., plus potash 1 cwt., plus nitrate of soda 1 cwt.	33·1	10·1	Significant increase over super plus potash	14s.

Comments on Table 5: The increase due to super is highly paying. Potash has no appreciable effect on yield. The addition of nitrate of soda to super has increased yield by 3·1 bushels and to super plus potash by 5·1 bushels per acre.

6. T. Pearson, Hororata, Canterbury.

Experiment No. 16/3/302. Variety of wheat: Solid - straw Tuscan, 100 lb. per acre. Date sown: 7th June, 1929. Nitrate of soda applied: 6th September, 1929. Date harvested: 18th February, 1930. Date threshed: 26th February, 1930. Previous crop: Wheat. Soil: Clay loam.

Table 6.—Results of T. Pearson's Experiment.

Treatment per Acre.	Bushels per Acre.		Remarks.	Profit or Loss per Acre.
	Yields.	Increase over No Manure.		
(1) No manure ..	18·6
(2) Super ..	20·0	1·4	Significant increase	1s. profit.
(3) Super 1 cwt., plus muriate of potash 1 cwt.	18·7	0·1	Significantly lower than super	20s. loss.
(4) Super 1 cwt., plus nitrate of soda, 1 cwt.	23·6	5·0	Significant increase over super	3s. profit.
(5) Super 1 cwt., plus potash 1 cwt., plus nitrate of soda 1 cwt.	23·2	4·6	Significant increase over super plus potash	13s. 6d. loss.

Comments on Table 6: The use of super has caused a small but paying increase. The addition of potash to super has caused the yield to be depressed below that from super. Nitrate of soda has been responsible for an increase of 3·6 bushels when used with super and an increase of 4·5 bushels when used with super plus potash.

7. J. D. Penny, Halkett, Canterbury.

Experiment No. 16/3/303. Variety of wheat: Solid - straw Tuscan, 100 lb. per acre. Date sown: 8th June, 1929. Nitrate of soda