

24. S. Robinson, Methven, Mid-Canterbury.

Experiment No. 16/3/263. Variety of wheat: Marshall's, 105 lb. per acre. Date sown: 23rd May, 1929. Nitrate of soda applied: 17th September, 1929. Date harvested: 18th February, 1930. Date threshed: 11th March, 1930. Previous crops: 1928-29, wheat following grass. Soil: Silty loam.

Table 24.—Results of S. Robinson's Experiment.

Treatment per Acre.	Bushels per Acre.		Remarks.	Profit or Loss per Acre.
	Yields.	Increase over No Manure.		
(1) No manure ..	20.5
(2) Super 1 cwt. ..	21.5	1.0	Significant increase ..	1s. loss.
(3) Super 2 cwt. ..	21.7	1.2	Not significantly different from super 1 cwt.	6s. loss.
(4) Super 1 cwt., plus nitrate of soda 1 cwt.	29.8	9.3	Significant increase over super 1 cwt.	24s. 6d. profit.
(5) Super 2 cwt., plus nitrate of soda 1 cwt.	30.1	9.6	Significant increase over super 2 cwt.	20s. profit.
(6) Super plus lime 2 cwt.	21.5	1.0	Not significantly different from super 1 cwt.	3s. loss.

Comments on Table 24: Both super 1 cwt. and super 2 cwt. have increased the yield, but neither has proved paying. The addition of nitrate of soda has increased the yield by 8.3 and 8.4 bushels over super 1 cwt. and 2 cwt. respectively. Lime has had no effect on yield.

25. R. Campbell, Dromore, Mid-Canterbury.

Experiment No. 16/3/257. Variety of wheat: Solid-straw Tuscan, 90 lb. per acre. Date sown: 31st May, 1929. Nitrate of soda applied: 6th September, 1929. Date harvested: 3rd February, 1930. Date threshed: 28th February, 1930. Previous crops: 1928-29, oats; 1927-28, wheat following grass. Soil: Light loam with a few stones.

Table 25.—Results of R. Campbell's Experiment.

Treatment per Acre.	Bushels per Acre.		Remarks.	Profit per Acre.
	Yields.	Increase over No Manure.		
(1) No manure ..	19.2
(2) Super 1 cwt. ..	21.6	2.4	Significant increase ..	6s.
(3) Super 2 cwt. ..	22.1	2.9	Not significantly different from super 1 cwt.	2s. 6d.
(4) Super 1 cwt., plus nitrate of soda 1 cwt.	28.3	9.1	Significant increase over super 1 cwt.	23s. 6d.
(5) Super 2 cwt., plus nitrate of soda 1 cwt.	28.4	9.2	Significant increase over super 2 cwt.	18s.
(6) Super plus lime 2 cwt.	21.4	2.2	Not significantly different from super 1 cwt.	3s.