

**9. H. R. Wilkinson, Chertsey, Mid-Canterbury.**

Experiment No. 16/3/258. Variety of wheat: Solid-straw Tuscan, 93 lb. per acre. Date sown: 29th May, 1929. Nitrate of soda applied: 6th September, 1929. Date harvested: 7th February, 1930. Date threshed: 1st March, 1930. Previous crops: 1928-29, wheat; 1927-28, Italian rye-grass, clovers, and kale. Soil: Light silty loam.

*Table 9.—Results of H. R. Wilkinson's Experiment.*

Treatment per Acre.	Bushels per Acre.		Remarks.	Profit or Loss per Acre.
	Yields.	Increase over No Manure.		
(1) No manure.. ..	23·0	..	..	..
(2) Super 1 cwt. ..	23·8	0·8	Increase not significant	2s. loss.
(3) Super 1 cwt., plus muriate of potash 1 cwt.	24·4	1·4	Increase over super not significant	13s. 6d. loss.
(4) Super 1 cwt., plus nitrate of soda, 1 cwt.	31·7	8·7	Significant increase over super	21s. 6d. profit.
(5) Super 1 cwt., plus potash 1 cwt., plus nitrate of soda 1 cwt.	30·9	7·9	Significant increase over super plus potash	3s. profit.

Comments on Table 9: Super and super plus potash have been unprofitable in use. Nitrate of soda has given excellent results on yield with both super and super plus potash. Without super it is highly probable that the nitrogen would have had very little effect.

**10. W. and A. Campion, Highbank, Methven, Mid-Canterbury.**

Experiment No. 16/3/260. Variety of wheat: Solid-straw Tuscan, 105 lb. per acre. Date sown: 5th June, 1929: Nitrate of soda applied: 17th September, 1929. Date harvested: 19th February, 1930. Date threshed: 12th March, 1930. Previous crops: 1928-29, wheat. Soil: Medium silty loam.

*Table 10.—Results of W. and A. Campion's Experiment.*

Treatment per Acre.	Bushels per Acre.		Remarks.	Profit or Loss per Acre.
	Yields.	Increase over No Manure.		
(1) No manure.. ..	23·8	..	..	..
(2) Super 1 cwt. ..	26·3	2·5	Significant increase over no manure	6s. 6d. profit.
(3) Super 1 cwt., plus muriate of potash 1 cwt.	26·3	2·5	Not significantly better than super	8s. loss.
(4) Super 1 cwt., plus nitrate of soda 1 cwt.	33·3	9·5	Significant increase over super	25s. 6d. profit.
(5) Super 1 cwt., plus potash 1 cwt., plus nitrate of soda 1 cwt.	33·7	9·9	Significant increase over super plus potash	13s. profit.

Comments on Table 10: Both super and nitrate of soda have given paying increases. Potash has had no appreciable effect on yield.