

applied: 6th September, 1929. Date harvested: 14th February, 1930. Date threshed: 25th February, 1930. Previous crops: Brown-top pasture for six years. Soil: Sandy loam.

Table 7.—Results of J. D. Penny'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. ..	26.4	3.4	Significant increase ..	11s. profit.
(3) Super 1 cwt., plus muriate of potash 1 cwt.	25.7	2.7	Not significantly different than super	7s. loss.
(4) Super 1 cwt., plus nitrate of potash 1 cwt.	31.2	8.2	Significant increase over super	19s. profit.
(5) Super 1 cwt., plus potash 1 cwt., plus nitrate of soda 1 cwt.	30.5	7.5	Significant increase over super plus potash	1s. profit.

Comments on Table 7: The applications of both super and nitrate of soda have been paying. Potash has had no beneficial effect on yield.

8. H. E. Evans, Fernside, North Canterbury.

Experiment No. 16/3/297. Variety of wheat: Solid-straw Tuscan, 100 lb per acre. Date sown: 4th July, 1929. Nitrate of soda applied: 4th September, 1929. Date harvested: 1st February, 1930. Date threshed: 18th February, 1930. Previous crop: Turnips. Soil: Light stony loam.

Table 8.—Results of H. E. Evans's Experiment.

Treatment per Acre.	Bushels per Acre.		Remarks.	Profit or Loss per Acre.
	Yields.	Increase over No Manure.		
(1) No manure.. ..	24.5
(2) Super 1 cwt. ..	27.0	2.5	Significant increase ..	6s 6d. profit.
(3) Super 1 cwt., plus muriate of potash 1 cwt.	25.7	1.2	Significantly lower than super	14s. 6d. loss.
(4) Super 1 cwt., plus nitrate of soda 1 cwt.	27.1	2.6	Non-significant increase over super	9s. loss.
(5) Super 1 cwt., plus potash 1 cwt., plus nitrate of soda 1 cwt.	27.4	2.9	Significant increase over super plus potash	22s. loss.

Comments on Table 8: Super alone is the only treatment which shows a profit from its use. Potash added to super has depressed yield.

NOTE.—The nitrogen plots ripened earlier than the other plots, and a certain amount of grain was shaken before cutting.