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Yields of the Field Experiments 1966

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66/S/SC/C/30 Intensive Wheat - Winter Wheat

Rothamsted Research

Rothamsted Research (1967) *66/S/SC/C/30 Intensive Wheat - Winter Wheat ; Yields Of The Field Experiments 1966*, pp 227 - 228 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

66/c/30.1

INTENSIVE WHEAT

(SC)

Saxmundham, Oldershaw's and Garner's plots 1966, the first year.

Design: 4 randomised blocks of 5 plots, with plots (excluding leys and beans) split into 3 for N.

Area of each sub-plot: 0.0182. Area harvested: 0.0096.

Treatments: All combinations of:-

1. Crop sequences:

	1966	1967	1968	1969	1970
1	W	W	W	W	W
2	L	W	W	W	W
3	L	Be	W	W	W
4	W	L	Be	W	W
5	W	W	L	Be	W

Where W = Winter wheat, L = Ley - one year Meadow Fescue (cut twice* for hay), Be = Spring beans.

2. Nitrogen to wheat: 0.6 (N1), 1.2 (N2), 1.8 cwt (N3) N per acre as 'Nitro-Chalk'.

* once only in 1966.

Basal application: 500 lb compound (0:20:20). Other applications:
To Meadow Fescue: 1.0 cwt N and 1.0 K₂O as muriate of potash in seedbed, 0.5 cwt N top-dressed. N as 'Nitro-Chalk'. Weedkiller to wheat: Dicamba, MCP, mecoprop and TBA (Cambilene at 4 pints in 20 gals).

Cultivations, etc.: Ploughed: Sept 29, 1965. Basal compound fertiliser applied: Sept 30.

Wheat: Seed drilled: Oct 8, 1965. 'Nitro-Chalk' applied: Mar 24, 1966. Weedkiller applied: Apr 29. Combine harvested: Aug 17. Variety: Cappelle.

Grass ley: 'Nitro-Chalk' applied: Mar 24, 1966. Muriate of potash applied, seed drilled at 16 lb: Mar 28. 'Nitro-Chalk' applied: July 13. Cut for hay: Aug 12. Variety: Canadian Meadow Fescue.

NOTES: (1) Yields were taken for winter wheat only.
(2) Estimates of the incidence of take-all (*Ophiobolus graminis*) and eyespot (*Cercospora herpotrichoides*) were made in April and June.

66/c/30.2

Standard error per sub-plot:

Winter wheat, grain: 2.59 or 9.8% (22 d.f.)

SUMMARY OF RESULTS

WINTER WHEAT

GRAIN

N1	N2	N3	Mean
19.4	28.8	31.5	26.6

Mean D.M. %: 83.8