

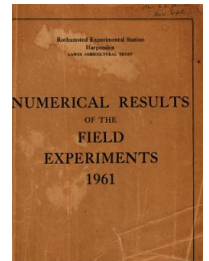
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Yields of the Field Experiments 1961

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61/W/DA/3 Spring Wheat - Combine Drilling of N

Rothamsted Research

Rothamsted Research (1962) *61/W/DA/3 Spring Wheat - Combine Drilling of N* ; Yields Of The Field Experiments 1961, pp 109 - 110 - DOI: <https://doi.org/10.23637/ERADOC-1-182>

61/Da/3.1

SPRING WHEAT

Combine drilling of nitrogen - Woburn, Great Hill 1961.

Design: 4 randomised blocks of 7 plots each.

Area of each plot: 0.0148 acres. Area harvested: 0.0104 acres.

Treatments:

No nitrogen. 0.40 cwt N per acre (N_1); 0.77 cwt N per acre (N_2)
either broadcast as sulphate of ammonia or combine drilled as
part of a compound fertiliser.

0.40 cwt N per acre as above plus 0.37 cwt N per acre as 'Nitro-
Chalk' top dressing.

Compound fertilisers used:

N_1 : 8% N, 8% P_2O_5 , 8% K_2O .

N_2 : 16% N, 9% P_2O_5 , 9% K_2O .

Basal dressing per acre: 0.43 cwt P_2O_5 and 0.43 cwt K_2O combine
drilled:

(a) on the plots receiving drilled nitrogen, as compounds
 N_1 , N_2 .

(b) on the no nitrogen and broadcast nitrogen plots, as
compound 20% P_2O_5 , 20% K_2O .

Cultivations, etc.: Ploughed Oct 17 - Dec 8, 1960. Seed combine
drilled at $2\frac{3}{4}$ bushels per acre, sulphate of ammonia applied:
Mar 10, 1961. 'Nitro-Chalk' top dressings applied: Apr 21.
Sprayed with TCB/MCPA at 4 pints in 40 gallons per acre: May 3.
Combine harvested: Aug 29. Variety: Jufy I. Previous crop:
Barley.

Note: The very low yields were in part due to a severe attack of
Fusarium, which was worst on the plots receiving nitrogen.

Standard error per plot.

Grain (at 85% dry matter): 2.29 cwt per acre or 20.1% (18 d.f.)

61/Da/3.2

Summary of Results

Grain (at 85% dry matter): cwt per acre

N: cwt per acre

	Broadcast			Drilled			Mean
	0.40	0.77	0.40 & 0.37 ⁺	0.40	0.77	0.40 & 0.77 ⁺	
None							
9.4	12.8	12.2	11.2 (±1.14)	11.6	11.0	11.6	11.4

Mean dry matter % as harvested: 84.9

⁺Top dressing.