

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1961

[Full Table of Content](#)



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

None	Broadcast			Drilled			Mean
	0.40	0.77	0.40 & 0.37 ⁺	0.40	0.77	0.40 & 0.77 ⁺	
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.