

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

Numerical Results of the Field Experiments 1970

[Full Table of Content](#)



70/R/CS/44 Break Crops and Wheat - W. Wheat

Rothamsted Research

Rothamsted Research (1971) *70/R/CS/44 Break Crops and Wheat - W. Wheat* ; Numerical Results Of The Field Experiments 1970, pp 189 - 190 - DOI: <https://doi.org/10.23637/ERADOC-1-59>

BREAK CROPS AND WHEAT

(70/R/CS/44)

Long Hoos III 1970, the second year, winter wheat.

Design: 3 randomised blocks of 12 plots, split into 4.

Area of each sub-plot: 0.0096. Area harvested: 0.0064.

Treatments: All combinations of:-

Whole plots: Crops and nitrogen 1969:-

Spring beans (2 plots per block) (BE), clover (2 plots per block) (CL) and all combinations of:-

1. Crops: Barley (B), oats (O).
2. Nitrogen: 0.4 (R1), 0.8 (R2) cwt as 'Nitro-Chalk' in the seedbed.
3. Undersowing: None (O), trefoil (T).

Sub-plots:

4. Nitrogen 1970: None (N0), 0.4 (N1), 0.8 (N2), 1.2 (N3) cwt as 'Nitro-Chalk'.

Basal and other applications: Corrective K to clover plots at 1.0 cwt K2O as muriate of potash. 280 lb (0:20:20) combine drilled.

Weedkiller: 2,4-D at 0.5 lb and dichlorprop at 2 lb in 20 gals.

Cultivations, etc. Corrective K applied: 28 Oct, 1969. Ploughed: 13 Nov. Seed combine drilled at 180 lb: 21 Nov. Weedkiller applied: 8 May, 1970. N applied: 13 May. Combine harvested: 26 Aug. Variety: Joss Cambiar.

NOTES: (1) For previous year's results see 'Results' 69/R/CS/44.

- (2) All plots were sampled in June for estimates of eyespot (*Cercospora herpotrichoides*) and take-all (*Ophiobolus graminis*).

Standard errors per plot. Grain, cwt:

Whole plot: 2.45 or 11.2% (14 d.f.)

Sub plot: 2.11 or 9.6% (48 d.f.)

70/R/GS/44

SUMMARY OF RESULTS

GRAIN: CWT

1970

	NO	N1	N2	N3	Mean
	(1) and (2)				(±0.71)
B	12.1	14.0	17.0	17.2	15.1
O	22.9	28.3	30.8	33.1	28.8
	(1) and (2)				(±0.71)
R1	17.5	20.8	23.6	25.1	21.8
R2	17.5	21.5	24.3	25.2	22.1
	(1) and (2)				(±0.71)
O	16.0	20.3	22.7	24.7	20.9
T	19.0	22.0	25.1	25.6	22.9
Mean (±0.43)	17.5	21.1	23.9	25.2	21.9

(1) (±0.88) For use in vertical and diagonal comparisons only

(2) (±0.61) For use in horizontal and interaction comparisons only

	NO	N1	N2	N3	Mean
RE	28.1	33.5	34.2	37.2	33.2
CL	36.7	38.0	39.3	39.4	38.4

General mean: 26.6

Mean D.M. %: 83.3