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# Numerical Results of the Field Experiments 1970

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## 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