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 readible, or you suspect there are some problems, please let us know and we will correct that.



# Yields of the Field Experiments 1972



Full Table of Content

## 72/R/CS/44 Break Crops and Wheat - Barley

#### **Rothamsted Research**

Rothamsted Research (1973) 72/R/CS/44 Break Crops and Wheat - Barley; Yields Of The Field Experiments 1972, pp 192 - 193 - DOI: https://doi.org/10.23637/ERADOC-1-62

## 72/R/CS/44

#### BREAK CROPS AND WHEAT

Object: To study the effects of different break crops on yields and soil-borne pathogens of a following sequence of cereals - Long Hoos III.

Sponsors: G.V. Dyke, R.D. Prew.

The fourth year, barley.

For previous years see 69/R/CS/44(t), 70/R/CS/44(t) and 71/R/CS/44(t).

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

Whole plot dimensions: 4.27 x 39.3. Area harvested: 0.00260.

Treatments (residual effects):-

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: 50 (R1), 100 (R2) kg as 'Nitro-Chalk' in the seedbed.

3. Undersowing 1969: None (0), trefoil (T).

Sub plots:

4. Nitrogen 1970 and 1971 (cumulative): None, 50, 100, 150 kg as 'Nitro-Chalk'.

Basal applications: 440 kg (20:15:15) combine drilled.

Weedkillers: Paraquat at 0.56 kg ion in 220 l. Ioxynil, bromoxynil, 2,4-DP and MCPA ('Tetroxone' at 5.6 l in 220 l).

Seed: Julia (dressed with ethirimol) sown at 160 kg.

Cultivations, etc.: Paraquat applied: 9 Sept, 1971. Ploughed: 25 Nov. Seed combine drilled: 21 Mar, 1972. N applied: 17 Apr. 'Tetroxone' applied: 8 May. Combine harvested: 23 Aug.

NOTE: The weights of grain recorded for two of the blocks were erratic apparently because of a fault in the balance used. Grain from the third block was weighed on a different balance and these results only were used in the tables of means.

# 72/R/CS/44

### TABLES OF MEANS

GRAIN: TONNES/HECTARE

100 March (17)	N: Ki 19	69	UNDERS 19		0		G/HA & 71 100	<b>1</b> 50	Mean
CROP								214	
B	5.60 5.58	5.65 5.58	5.45 5.56	5.80 5.60	5.11 5.10	5.51 5.15	5.63 5.79	6.25 6.28	5.63 5.58
	N: KG/HA 1969 50 100		NATIONAL PROPERTY.					100 A	stant in
				5.75 5.65		5.23 5.44	5.88 5.55	6.25 6.28	5.59 5.62
			UNDERSOWING 1969		and the company of the second				
			C		5.11 5.10	5.19 5.47	5.48 5.95	6.24 6.30	5.50 5.70
Mean	jerc's al	3		SA	5.10	5.33	5.71	6.27	5.60
	CROP								
				BE CL	4.91 5.65	5.30 5.65	5.81 5.72	5.93 6.11	5.49 5.78

Grand mean: 5.61 Mean D.M. % all plots: 87.1