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# Yields of the Field Experiments 1972

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## 72/R/CS/6 Wheat After Intensive Barley - W. Wheat

### Rothamsted Research

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72/R/CS/6

WHEAT AFTER INTENSIVE BARLEY

Object: To study the effects of different periods of pre-cropping with barley on yields and incidence of take-all (*Gaeumannomyces graminis*, formerly *Ophiobolus graminis*) in wheat - Little Knott I.

Sponsors: D.B. Slope, E.W. Broom.

The twelfth year winter wheat.

For previous years see 61/C/8(t), 62/C/7, 63-66/C/2, 67/C/2(t), 68/C/2(t), 69/R/CS/6(t), 70/R/CS/6(t) and 71/R/CS/6(t).

Whole plot dimensions: 4.27 x 20.1. Sub plot area harvested: 0.00269.

On one block the plots of Crop Sequences 2 (N3,N5) and 3 (N7,N9) were fallowed to prepare land for new cropping sequences in 1973. Estimated values were used in the analysis.

Basal applications: 250 kg (0:14:28) combine drilled. 610 kg 'Nitro-Chalk' in spring. Weedkillers: Paraquat at 0.56 kg ion in 220 l, terbutryne and related triazines ('Prebane' at 4.5 kg in 220 l), MCPA, mecoprop and dicamba ('Banlene Plus' at 5.6 l in 220 l).

Seed: Joss Cambier sown at 180 kg.

Cultivations, etc.: Paraquat applied: 10 Sept, 1971. Ploughed: 27 Sept. Seed combine drilled: 15 Oct. 'Prebane' applied: 25 Oct. Fallow plots sprayed with paraquat at 1.12 kg ion by knapsack sprayer: 15 Dec. 'Nitro-Chalk' applied: 19 Apr, 1972. 'Banlene Plus' applied: 27 Apr. Fallow plots rotary cultivated on two occasions: 6 May, 13 July. Combine harvested: 29 Aug.

NOTE: Estimates of take-all (*Gaeumannomyces graminis*, formerly *Ophiobolus graminis*) were made in spring and summer.

Standard errors per plot. Grain, tonnes/hectare:

Whole plot: 0.477 or 9.9% (35 d.f.)

Sub plot: 0.258 or 5.3% (36 d.f.)

72/R/CS/6

TABLES OF MEANS

GRAIN: TONNES/HECTARE

Crop sequence(CS)

Crop in 1961	1	2	3	4	5	6	7	8	9	10	Mean
1961	O	WS	O	BE	WS	WS	B	WS	WS	BE	
62	BE	O	WS	O	BE	WS	B	WS	WW	WW	
63	B	BE	O	WS	O	BE	B	WS	WW	P	
64	B	B	BE	O	WS	O	B	WS	WW	B	
65	B	B	B	BE	O	WS	B	WS	WW	BE	
66	B	B	B	B	BE	O	B	WS	WW	WW	
67	B	B	B	B	B	BE	B	WS	WW	P	
68	B	B	B	B	B	B	B	WS	F	B	
69	WW	WW	WW	WW	WW	WW	WW	WW	WW	F	
70	F	WW	WW	WW	WW	WW	WW	WW	WW	WW	
71	WW	WW	WW	WW	WW	WW	WW	WW	WW	WW	
RESIDUAL											
N3	5.15	5.08	4.76	4.58	5.06	4.69	4.52	4.76	4.46	4.72	4.78
N5	5.05	5.09	5.02	5.00	5.32	4.76	5.25	5.03	4.58	4.18	4.93
N7	4.95	5.34	5.22	5.17	4.47	4.24	5.18	4.25	4.93	4.53	4.83
N9	5.03	5.20	5.02	5.07	4.87	4.82	4.36	5.04	4.21	4.35	4.80
LIME											
U	4.95	5.13	4.86	4.74	4.79	4.42	4.60	4.55	4.29	4.46	4.68
L	5.14	5.22	5.15	5.17	5.07	4.83	5.06	4.98	4.80	4.43	4.99
Mean	5.05	5.18	5.00	4.95	4.93	4.63	4.83	4.77	4.54	4.45	4.83

	RESIDUAL			
	N3	N5	N7	N9
U	4.53	4.81	4.70	4.67
L	5.02	5.04	4.96	4.92

STANDARD ERRORS OF DIFFERENCES

N	CS	N	N*	CS*
		CS	LIME	LIME
0.151	0.238	0.477	0.161	0.255

\* Within the same level of LIME only

Mean D.M. %: 85.9