ROTHAMSTED RESEARCH

Yields of the Field Experiments 1971

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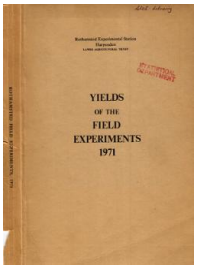

71/R/CS/6 Wheat After Intensive Barley - Wheat

Rothamsted Research

Rothamsted Research (1972) *71/R/CS/6 Wheat After Intensive Barley - Wheat ;* Yields Of The Field Experiments 1971, pp 130 - 131 **- DOI: https://doi.org/10.23637/ERADOC-1-97**

71/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 (Ophiobolus graminis) in wheat - Little Knott I.

The eleventh 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) and 70/R/CS/6(t).

Whole plot dimensions: 4.27 x 20.1. Sub plot area harvested: 0.00266.

Blocks were split across all plots for a test of none (U) v. ground chalk at 12.6 tonnes (L).

Basal applications: Manures: 251 kg (0:14:28) combine drilled, 605 kg 'Nitro-Chalk' in spring. Weedkillers: Paraquat at 0.84 kg ion in 225 l. Terbutryne and related triazines ('Prebane' at 4.48 kg in 225 l).

Cultivations, etc.: Paraquat applied: 11 Sept, 1970. Ground chalk applied to half plots: 12 Sept. Ploughed: 23 Sept. Seed drilled at 179 kg: 7 Oct. 'Prebane' applied: 10 Oct. N applied: 13 Apr, 1971. Combine harvested: 25 Aug. Variety: Joss Cambier.

NOTE: Estimates of take-all (Ophiobolus graminis) were made in April and early July.

Standard errors per plot.

Grain, tonnes/hectare:	Whole plot:	0.461 or 7.7% (39 d.f.)
	Sub plot:	0.626 or 10.4% (40 d.f.)

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71/R/CS/6

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

Crop Sequences

Crop in	1	2	3	4	5	6	7	8	9	10	
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	Mean
RESIDUAL					(±0.326)						(±0.103)
N3	6.55	6.02	5.77	6.17	6.14	5.56	5.89	5.97	4.80	6.32	5.92
N5	6.91	5.79	6.25	6.34	6.00	6.01	6.16	6.00	4.96	6.10	6.05
N7	7.00	6.27	6.11	6.18	5.61	5.61	6.35	5.95	6.26	6.04	6.14
N9	7.01	6.29	5.35	5.95	5.89	5.91	5.85	5.94	5.21	6.09	5.95
					(±0.221)*						
U	6.72	5.95	5.95	6.20	5.86	5.74	6.01	6.14	5.33	6.48	6.04
L	7.01	6.24	5.78	6.12	5.96	5.81	6.12	5.79	5.29	5.80	5.99
Mean (±0.163)	6.87	6.09	5.87	6.16	5.91	5.77	6.06	5.96	5.31	6.14	6.01

RESIDUAL

	N3	N5	N7	N9
	(±0.140)*			
U	5.88	6.19	6.11	5.98
L	5.95	5.92	6.17	5.92

* For use in horizontal and interaction comparisons only

Mean D.M. %: 81.8

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