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70/R/CS/6 Wheat After Intensive Barley -w. Wheat

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Rothamsted Research (1971) *70/R/CS/6 Wheat After Intensive Barley -w. Wheat ; Numerical Results Of The Field Experiments 1970*, pp 133 - 134 - DOI: <https://doi.org/10.23637/ERADOC-1-59>

WHEAT AFTER INTENSIVE BARLEY

(70/R/CS/6)

The tenth year of the 'Intensive Barley Growing Experiment', Little Knott I. For design, treatments etc. see 'Results' 61/C/8 and 69/R/CS/6.

Area of each plot: 0.0212. Area harvested: 0.0140.

Cropping: Winter wheat was grown over the whole experiment, with the exception of sequence 1 (winter wheat 1969, preceded by 6 years of continuous barley), which was fallowed.

Basal applications: 780 lb (0:14:28) ploughed in, 220 lb (0:14:28) combine drilled. Weedkillers: Paraquat at 0.75 lb ion in 20 gals. Terbutryne and related triazines ('Prebane' at 4 lb in 20 gals). 2,4-D at 0.5 lb and dichlorprop at 2 lb in 20 gals.

Cultivations, etc.: First basal PK applied: 16 Sept, 1969. Paraquat applied: 17 Sept. Ploughed: 23 Sept. All plots rotary cultivated: 10 Nov. Seed combine drilled at 160 lb: 11 Nov. 'Prebane' applied: 14 Nov. 2,4-D/dichlorprop applied: 5 May, 1970. 'Nitro-Chalk' applied: 13 May. Combine harvested: 26 Aug. Variety: Joss Cambier.

- NOTES: (1) Yields were taken for all sequences except sequence 1 (fallow).
(2) Estimates of take-all (*Ophiobolus graminis*) were made in early July.
(3) For previous years' results see 'Results' 61/C/8, 62/C/7, 63/C/2, 64/C/2, 65/C/2, 66/C/2, 67/C/2, 68/C/2, 69/R/CS/6.

Standard error per plot.

Grain, cwt: 3.94 or 11.5% (35 d.f.)

70/R/CS/6

SUMMARY OF RESULTS

GRAIN: CWT

Crop Sequences

Crop in 1961	2	3	4	5	6	7	8	9	10	
	WS	O	BE	WS	WS	B	WS	WS	BE	
2	O	WS	O	BE	WS	B	WS	WW	WW	
3	BE	O	WS	O	BE	B	WS	WW	P	
4	B	BE	O	WS	O	B	WS	WW	B	
5	B	B	BE	O	WS	B	WS	WW	BE	
6	B	B	B	BE	O	B	WS	WW	WW	
7	B	B	B	B	BE	B	WS	WW	P	
8	B	B	B	B	B	B	WS	F	B	
9	WW	WW	WW	WW	WW	WW	WW	WW	F	Mean
				(±2.79)						(±0.93)
N3	30.0	32.3	29.0	24.7	22.0	32.9	29.2	32.4	47.5	31.1
N5	28.5	30.8	33.0	32.5	25.7	34.2	32.0	34.9	49.4	33.4
N7	30.2	41.9	31.6	32.8	29.2	35.4	39.2	40.6	48.8	36.6
N9	36.1	33.4	26.9	33.8	31.7	39.2	34.8	38.9	53.8	36.5
Mean (±1.39)	31.2	34.6	30.1	30.9	27.2	35.4	33.8	36.7	49.9	34.4

Mean D.M. %: 83.4