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

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WINTER WHEAT AFTER INTENSIVE BARLEY

(69/R/CS/6)

Little Knott I 1969

The ninth year of the 'Intensive Barley Growing Experiment'.
For design, treatments etc. see 'Results' 61/C/8.

Area of each plot: 0.0212. Area harvested: 0.0138.

Cropping: Winter wheat was grown over the whole experiment, with the exception of sequence 10 (non-continuous cropping), which was fallowed.

Nitrogen treatments (in cwt N as 'Nitro-Chalk'):

From 1969	Before 1969
0.6 (N3)	None (NO)
1.0 (N5)	0.3 (N1)
1.4 (N7)	0.6 (N2)
1.8 (N9)	0.9 (N3)

Basal applications: 900 lb (0:14:28) ploughed in, 170 lb (0:20:20) combine drilled. Weedkillers: Paraquat at 0.75 lb ion in 20 gals. Ioxynil octanoate, bromoxynil octanoate and the iso-octyl ester of dichlorprop ('Oxytril P' at 1 pint in 20 gals).

Cultivations, etc.: Paraquat applied: 5 Sept, 1968. First basal PK applied: 12 Sept. Ploughed: 20 Sept. Seed drilled at 160 lb: 15 Oct. Plots 28 (sequence 4,N7) and 68 (sequence 6,N5) drilled at 160 lb (omitted on 15 Oct by error): 21 Nov. 'Nitro-Chalk' applied: 10 Apr, 1969. Fallow plots rotary cultivated: 21 Apr. 'Oxytril P' applied: 1 May. Combine harvested: 30 Aug. Variety: Cappelle.

- NOTES: (1) Yields were taken for all sequences except 10 (fallow).
(2) Estimates of take-all (*Ophiobolus graminis*) were made throughout the season.
(3) For previous years' results see 'Results' 61/C/8, 62/C/7, 63/C/2, 65/C/2, 66/C/2, 67/C/2, 68/C/2.
(4) Two plots C4N7 and C6N5 were sown about a month after the remainder. Estimated values were used in the analysis.

Standard error per plot.

Grain, cwt: 3.50 or 7.1% (33 d.f.)

SUMMARY OF RESULTS

GRAIN:CWT

Crop Sequences

Crop in 1961	1	2	3	4	5	6	7	8	9	Mean
1	O	WS	O	BE	WS	WS	B	WS	WS	
2	BE	O	WS	O	BE	WS	B	WS	WW	
3	B	BE	O	WS	O	BE	B	WS	WW	
4	B	B	BE	O	WS	O	B	WS	WW	
5	B	B	B	BE	O	WS	B	WS	WW	
6	B	B	B	B	BE	O	B	WS	WW	
7	B	B	B	B	B	BE	B	WS	WW	
8	B	B	B	B	B	B	B	WS	F	
	(±2.49)									(±0.83)
N3	39.4	43.9	42.1	38.7	37.2	42.3	42.6	38.5	53.9	42.1
N5	52.8	50.7	48.0	46.9	43.1	55.7	51.2	49.1	55.4	50.3
N7	56.2	52.1	53.1	44.9	44.9	52.9	56.1	53.7	50.5	51.6
N9	54.4	54.0	52.2	48.3	47.9	56.0	53.1	52.7	55.0	52.6
Mean (±1.25)	50.7	50.2	48.9	44.7	43.3	51.7	50.7	48.5	53.7	49.2

Mean D.M. %: 83.3