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Numerical Results of the Field Experiments 1969



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Rothamsted Research

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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.)

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SUMMARY OF RESULTS

GRAIN:CWT

Crop Sequences

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

Mean D.M. %: 83.3