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Numerical Results of the Field Experiments 1970

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70/R/WW/3 Winter Wheat Paths and Blank Rows

Rothamsted Research

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WINTER WHEAT

(70/R/WW/3)

Paths and blank rows - West Barnfield I 1970.

Design: 4 randomised blocks of 10 plots.

Area of each plot: 0.0161. Area harvested: 0.0107.

Treatments: All combinations of:-

1. Blank rows: None, central combine cut taken at harvest without blank rows (R0)
None until just before harvest, when blanks cut and 16 middle rows harvested (R-)
2 blank rows: 3(1) 16(1) 3 sown (R1)
4 blank rows: 2(2) 16(2) 2 sown (R2)
6 blank rows: 1(3) 16(3) 1 sown (R3)
2. N: 0.5 (N1), 1.0 (N2) cwt N as 'Nitro-Chalk'.
Plots were 24 row spaces wide, 16 (9'4") being harvested.
(1) etc. indicate number and position of blank (unsown) rows.

For treatment R0 a central width of 10 ft was cut.

Basal applications: 280 lb (0:20:20) combine drilled. Weedkiller: 2,4-D at 0.5 lb and dichlorprop at 2 lb in 20 gals.

Cultivations, etc.: - Ploughed: 2 Oct, 1969. Rotary cultivated, seed combine drilled at 180 lb per sown acre: 5 Nov. Weedkiller applied: 8 May, 1970. N applied: 15 May. Blank rows cut by sickle for treatment R-: 10 Aug. Combine harvested: 28 Aug. Variety: Joss Cambier. Previous crops: Barley 1968, spring oilseed rape 1969.

Standard error per plot.

Grain, cwt: 2.91 or 6.8% (27 d.f.)

70/R/WW/3

SUMMARY OF RESULTS

GRAIN: CWT

	R0	R-	R1	R2	R3	Mean
			(±1.46)			(±0.65)
N1	39.6	40.3	43.9	41.4	43.7	41.8
N2	42.4	42.7	44.2	47.2	43.3	44.0
Mean (±1.03)	41.0	41.5	44.1	44.3	43.5	42.9

Mean D.M. %: 84.4