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Numerical Results of the Field Experiments 1970

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70/R/WS/4 Spring Wheat Effect of Gaps

Rothamsted Research

Rothamsted Research (1971) *70/R/WS/4 Spring Wheat Effect of Gaps* ; Numerical Results Of The Field Experiments 1970, pp 237 - 238 - DOI: <https://doi.org/10.23637/ERADOC-1-59>

SPRING WHEAT

(70/R/WS/4)

Effect of gaps - Long Hoos V 1970.

Design: 5 randomised blocks of 6 plots.

Area of each plot: 0.0014. Area harvested: 0.0008.

Treatments: No rows missing, 12 rows harvested (G0), and gapping of full plant as described below (each plot 7 ft wide and 9 ft long, i.e. nominally 12 rows at 7 inch spacing, with no paths between plots - 10 rows x 6 ft were harvested for yield, the two outer rows being discarded.)

Quarter of plants removed by hand hoeing:-

1.5 inch gaps evenly spaced	(G1)
3 inch gaps evenly spaced	(G2)
6 inch gaps evenly spaced	(G4)

Quarter of plants removed by paraquat spray (concentration 0.5 lb ion in 20 gals):-

6 inch gaps evenly spaced	(GS4)
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One eighth of plants removed by hand hoeing:

6 inch gaps evenly spaced in alternate rows	(G4A)
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Basal applications: 390 lb (20:10:10) combine drilled. Weedkiller: 2,4-D at 0.5 lb and dichlorprop at 2 lb in 20 gals.

Cultivations, etc.: Deep-tine cultivated: 27 Oct, 1969. Seed combine drilled at 160 lb: 19 Apr, 1970. Gapped by hand-hoeing: 21 and 22 May, by paraquat spray: 26 May. 2,4-D/dichlorprop applied: 27 May. Combine harvested: 28 Aug. Variety: Kolibri. Previous crops: Spring oilseed rape 1968, potatoes 1969.

Standard error per plot.

Grain, cwt: 2.59 or 11.3% (20 d.f.)

NOTE: More than quarter of plants were removed in GS4 because of faulty application of paraquat.

70/R/WS/4

SUMMARY OF RESULTS

GRAIN: CWT

G0	G1	G2	G4	GS4	G4A	Mean
		(±1.16)				
25.6	23.5	23.2	24.8	15.1	25.0	22.9