Yields of the Field Experiments 1972

72/R/WS/2 Spring Wheat Effects of Gaps

Rothamsted Research

72/R/WS/2

SPRING WHEAT

EFFECTS OF GAPS

Object: To study the effects of different amounts and types of
gapping on yield of spring wheat - Fosters Corner.

Sponsor: R. Bardner.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 4.27 x 9.14. Area harvested: 0.00130.

Treatments (T):
Gaps produced by sowing dead seed (killed by heat) mixed with
live seed to give a total seed rate of 190 kg. Amount of live
seed sown:-

$$47.5 \text{ kg } (1+3)$$
$$95.0 \text{ kg } (2+2)$$
$$143.0 \text{ kg } (3+1)$$
$$190.0 \text{ kg } (4)$$

Gaps produced by removal of a quarter of the plants, as evenly
spaced 15 cm gaps, one month after·sowing at normal seed rate:-
$$190.0 \text{ kg } (4G)$$
Gaps produced by sowing live seed at half normal seed rate:-
$$95.0 \text{ kg } (2).$$

Basal applications: 630 kg (0:14:28). 380 kg 'Nitro-Chalk' combine
drilled.

Seed: Kolibri.

Cultivations, etc.: Deep-tine cultivated twice: 12 Nov, 1971.
Basal PK applied: 21 Mar, 1972. Seed combine drilled:
23 Mar. Combine harvested: 5 Sept. Previous crops: Fallow 1970,
potatoes 1971.

NOTES: (1) Estimates were made of the number of ear-bearing stalks.
1000 grain weights were taken.
(2) The yields from three plots (T2+2, T3+1, and T4G) had to be
discarded. Estimated values were used in the analysis.

Standard error per plot.
Grain, tonnes/hectare: 0.239 or 5.1% (12 d.f.)

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TABLES OF MEANS

GRAIN: TONNES/HECTARE

T

1+3	2+2	3+1	4	4G	2	Mean
4.19	4.83	4.66	4.90	4.60	4.70	4.65

STANDARD ERROR OF DIFFERENCES
    T   0.169

Mean D.M. %: 80.0

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