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Numerical Results of the Field Experiments 1968

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68/DA/4 Spun and Drilled Seed and Cultivations - W. Wheat

Rothamsted Research

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68/Da/4.1

WINTER WHEAT

(RW 301)

Spun and drilled seed and cultivations - Whittlocks 1968.

Design: 4 randomised blocks of 4 plots, split into 4.

Area of each sub plot: 0.0135. Area harvested: 0.0096.

Treatments:

Spun seed: All combinations of:-

Whole plots: 1. Seed rate: 170 lb (M), 235 lb (H).

Sub plots: 2. Seedbed cultivations: Deep-tine cultivate, spring-tine cultivate twice, sow, harrow (C1).
Deep-tine cultivate, spring-tine cultivate, sow, spring-tine cultivate, harrow (C2).
Deep-tine cultivate, spring-tine cultivate twice, harrow, sow, harrow (C3).
Deep-tine cultivate, sow, spring-tine cultivate twice, harrow (C4).

Drilled seed: All combinations of:-

Whole plot: 1. Seed rate: 150 lb (L), 190 lb (M).

Sub plot: 2. Seedbed cultivations: C1, C3 as above (in duplicate).

Basal applications: 220 lb (0:20:20). 0.84 cwt N as 'Nitro-Chalk' in spring.

Cultivations, etc.: Deep-tine cultivated (with wide points): 19 Oct, 1967. Deep-tine cultivated (with narrow points), basal PK compound applied: 24 Oct. Seed sown: 26 Oct. 'Nitro-Chalk' applied: 11 Apr, 1968. Combine harvested: 26 Aug. Variety: Cappelle. Previous crops: Barley 1966, spring beans 1967.

Standard error per plot. Grain:

Whole plot: 1.45 or 4.5% (6 d.f.)

Sub plot: 2.05 or 6.4% (40 d.f.)

68/Da/4.2

SUMMARY OF RESULTS

GRAIN

SPUN SEED

	C1	C2	C3	C4	Mean
	(1) and (2)				(~~±0.73~~) (~~±0.73~~)
M	31.6	31.7	30.8	33.2	31.8
H	32.9	32.9	31.9	32.1	32.5
Mean (± 0.73)	32.3	32.3	31.4	32.7	32.2

DRILLED SEED

	C1	C3	Mean
	(3) and (4)		(~~±0.73~~) (~~±0.73~~)
L	31.3	31.2	31.3
M	31.6	32.6	32.1
Mean (± 0.51)	31.5	31.9	31.7

(1) (± 1.26) (3) (± 0.89) For use in vertical and diagonal comparisons only
 (2) (± 1.03) (4) (± 0.73) For use in horizontal and interaction comparisons only

General mean: 31.9

General mean D.M. %: 84.1