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Yields of the Field Experiments 1967

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67/R/RW401/DA/4 Winter Wheat - Spun and Drilled Seed

Rothamsted Research

Rothamsted Research (1968) *67/R/RW401/DA/4 Winter Wheat - Spun and Drilled Seed* ; Yields Of The Field Experiments 1967, pp 281 - 282 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/Da/4.1

WINTER WHEAT

(RW 401)

Spun and drilled seed, and cultivations - Long Hoos IV 1967.

Design: 2 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: Plough, spring-tine cultivate twice, sow, harrow (C1). Plough, spring-tine cultivate, sow, spring-tine cultivate, harrow (C2). Plough, spring-tine cultivate twice, harrow, sow, harrow (C3). Plough, sow, spring-tine cultivate twice, harrow (C4).

Drilled seed: All combinations of:-

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

Sub plots: 2. Seedbed cultivations: C1, C3 as above (duplicate treatments in each case).

Basal applications: 220 lb (0:20:20), 0.84 cwt N as 'Nitro-Chalk' as a top dressing. Weedkiller: Ioxynil/mecoprop (Actril C at 6 pints in 32 gals).

Cultivations, etc.: Ploughed: Sept 26, 1966. Basal PK compound applied: Oct 28. Seed sown: Nov 1. 'Nitro-Chalk' applied: Apr 5, 1967. Sprayed: Apr 29. Combine harvested: Aug 31. Variety: Cappelle. Previous crops: Winter wheat 1965, spring beans 1966.

Standard errors per plot. Grain:

Whole plot: 1.94 or 4.2% (6 d.f.)

Sub plot: 1.58 or 3.4% (40 d.f.)

67/Da/4.2

SUMMARY OF RESULTS

GRAIN

SPUN SEED

	C1	C2	C3	C4	Mean
	(1) and (2)				(±0.97)
M	46.9	46.8	48.1	46.7	47.1
H	43.1	42.2	42.7	45.6	43.4
Mean (±0.56)	45.0	44.5	45.4	46.1	45.2

DRILLED SEED

	C1	C3	Mean
	(3) and (4)		(±0.97)
L	48.1	47.6	47.8
M	47.5	47.4	47.4
Mean (±0.39)	47.8	47.5	47.6

(1) (±1.18) (3) (±1.05) For use in vertical and diagonal comparisons
 (2) (±0.79) (4) (±0.56) For use in horizontal and interaction comparisons

Pooled mean: 46.4
 Pooled mean D.M. %: 85.1