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67/R/RB101/DB/1 Barley - Spun and Drilled Seed

Rothamsted Research

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67/Db/1.1

BARLEY

(RB 101)

Spun and drilled seed and cultivations - Great Knott III 1967.

Design (each sowing method): 2 randomised blocks of 4 plots, with plots split into 4.

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

Treatments:

Spun seed: All combinations of:-

Whole plot: 1. Seed rate: 140 lb (M), 200 lb (H).

Sub plot: 2. Seedbed cultivations: Plough, spring-tine cultivate, harrow, sow, harrow (C1). Plough, spring-tine cultivate, sow, spring-tine cultivate, harrow (C2 - duplicate treatments). Plough, spring-tine cultivate twice, sow, harrow (C3).

Drilled seed: All combinations of:-

Whole plot: 1. Seed rate: 112 lb (L), 140 lb (M),

Sub plot: 2. Seedbed cultivations: C1, C3 above (2 plots per block of each).

Basal applications: 340 lb (25:10:10). Weedkiller: Mecoprop/2,4-D (Methoxone Extra at 6 pints in 35 gals).

Cultivations, etc.: Ploughed: Oct 21, 1966. Basal NPK compound applied: Mar 14, 1967. Seed sown: Mar 15. Sprayed: May 11. Combine harvested: Aug 21. Variety: Maris Badger. Previous crops: Spring beans 1965, spring wheat 1966.

Standard errors per plot (pooled). Grain:

Whole plot: 1.45 or 3.5% (6 d.f.)

Sub plot: 2.39 or 5.8% (40 d.f.)

67/Db/1.2

SUMMARY OF RESULTS

GRAIN

SPUN SEED

	C1	C2	C3	Mean
	(1) and (2)	(3) and (4)	(1) and (2)	(± 0.72)
M	39.8	42.6	42.2	41.8
H	39.3	41.3	41.1	40.8
Mean	39.5 (± 0.84)	42.0 (± 0.60)	41.6 (± 0.84)	41.3

(1) (± 1.26) (3) (± 0.94) For use in vertical and diagonal comparisons only.

(2) (± 1.19) (4) (± 0.84) For use in horizontal and interaction comparisons only.

DRILLED SEED

	C1	C3	Mean
	(1) and (2)		(± 0.72)
M	40.8	40.7	40.7
H	42.4	41.4	41.9
Mean (± 0.60)	41.6	41.0	41.3

(1) (± 0.94) For use in vertical and diagonal comparisons only

(2) (± 0.84) For use in horizontal and interaction comparisons only

Pooled mean: 41.3

Pooled D.M. %: 85.6