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Yields of the Field Experiments 1967

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67/R/RB301/DB/3 Barley - Spraying and Wheelmarks

Rothamsted Research

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67/D_b/2.1

BARLEY

(RB 201)

Comparison of combines - Great Knott III 1967.

Design: 8 randomised blocks of 6 plots, with N rates applied to blocks. For plot length harvested plots are either whole, halved or quartered.

Area of each plot:	Area harvested:
Whole plots:	
Small combine: 0.0110	0.0043
Large combine: 0.0221	0.0086
Half plots:	
Small combine: 0.0055	0.0021
Large combine: 0.0110	0.0043
Quarter plots:	
Small combine: 0.0028	0.0011
Large combine: 0.0055	0.0021

Treatments: All combinations of:-

To blocks: 1. Nitrogen: 0.4 (N1), 0.8 (N2) cwt N as basal compound plus 'Nitro-Chalk'.

To plots: 2. Combine harvesters:

PAM 150S cutting 8 rows (4'8"), Clayson M103 cutting 16 rows (9' 4"), between blank rows.

3. Length harvested: 40 feet (whole plot), 2 x 20 feet (half plots), 4 x 10 feet (quarter plots).

Basal applications: 300 lb (15:15:15) combine drilled. Weedkiller: Mecoprop/2,4-D (Methoxone Extra at 6 pints in 35 gals).

Cultivations, etc.: Ploughed: Oct 21 - Nov 1, 1966. Seed drilled at 140 lb: Mar 13, 1967. 'Nitro-Chalk' applied: Mar 22. Sprayed: May 11. Combine harvested: Aug 22. Variety: Maris Badger. Previous crops: Spring beans 1965, spring wheat 1966.

Standard errors per plot. Grain:

Whole plots:

 Blocks: 1.09 or 2.5% (3 d.f.)

 Plots: 2.88 or 6.7% (6 d.f.)

Half plots:

 Blocks: 1.44 or 3.3% (3 d.f.)

 Plots: 2.08 or 4.8% (6 d.f.)

Quarter plots:

 Blocks: 1.55 or 3.6% (3 d.f.)

 Plots: 2.06 or 4.8% (6 d.f.)

67/Db/2.2

SUMMARY OF RESULTS

GRAIN

	L	S	Mean
WHOLE PLOT			
	(1) and (2)		(±0.55)
N1	39.1	39.4	39.3
N2	47.2	47.0	47.1
Mean (±1.02)	43.2	43.2	43.2

- (1) (±1.16) For use in vertical and diagonal comparisons
 (2) (±1.44) For use in horizontal and interaction comparisons

HALF PLOT

	(1) and (2)		(±0.72)
N1	41.1	39.5	40.3
N2	47.9	44.7	46.3
Mean (±0.74)	44.5	42.1	43.3

- (1) (±1.03) For use in vertical and diagonal comparisons
 (2) (±1.04) For use in horizontal and interaction comparisons

Mean D.M. %: 86.3

67/D₀/2.3

GRAIN
QUARTER PLOT

	L	S	Mean
	(1) and (2)		(±0.78)
N1	38.3	39.2	38.8
N2	44.5	48.1	46.3
Mean (±0.73)	41.4	43.7	42.5

- (1) (±1.06) For use in vertical and diagonal comparisons
 (2) (±1.03) For use in horizontal and interaction comparisons

Mean D.M. %: 86.3