

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1967

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1968) *67/R/RB301/DB/3 Barley - Spraying and Wheelmarks* ; Yields Of The Field Experiments 1967, pp 303 - 305 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

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/Db/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