

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 1965

[Full Table of Content](#)



65/W/WBD/C/17 Row Spacing and Fertilisers 1964-65 - Barley

Rothamsted Research

Rothamsted Research (1966) *65/W/WBD/C/17 Row Spacing and Fertilisers 1964-65 - Barley ; Yields Of The Field Experiments 1965*, pp 181 - 182 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

65/C/17.1

ROW SPACING AND FERTILISERS

(WBD/B)

Row spacing and concentrated fertilisers - Woburn Horsepool 1965, the second year. Potatoes 1964 followed by barley 1965.

Design: A half replicate of $4 \times 4 \times 2 \times 2 \times 2$, in 4 blocks of 16 plots each, with a component of (C v D) x (A v B) x N (1964) x N (1965) as identity. Certain 3 factor and higher order interactions are confounded.

Area of each plot: 0.0030.

Treatments: All combinations of:-

- To potatoes 1964:
1. Levels of NPK (in the proportions 1.0 N, 1.0 P₂O₅, 1.5 K₂O) to supply: None (R0), 0.66 (R1), 1.32 (R2), 2.0 (R3) cwt N.
 2. Type of fertiliser: Concentrated (C), dilute (D).
 3. Time of application: Before (B), after (A) rotary cultivation.
 4. Spacing of setts: 14 x 14 in. (S14), 14 x 28 in. (S28).
- To barley 1965:
5. Concentrated NPK fertiliser (16:16:27) to supply none (F0), 0.33 (F1), 0.66 (F2), 1.00 (F3) cwt N.

Basal applications: Manure - none. Mecoprop/2,4-D (Methoxone Extra at 6 pints in 40 gals).

Cultivations, etc.: Ground chalk applied at 38 cwt: Oct 1 - 12, 1964.
Chisel ploughed: Nov 2. Seed drilled at 112 lb: Mar 15, 1965.
Fertilisers broadcast: Mar 17. Sprayed: May 10. Combine harvested: Sept 21. Variety: Maris Badger. Previous crops: Winter wheat 1963, potatoes 1964.

NOTE: For details of the previous year's results see 'Results' 64/C/19.

Standard error per plot.
Grain: 6.61 or 14.3% (8 d.f.)

65/C/17.2

SUMMARY OF RESULTS

GRAIN

1965

	F0	F1	F2	F3	Mean
Mean (± 1.65)	48.2	46.6	46.1	44.1	46.3
1964		(± 3.31)			(± 1.65)
RO	48.2	49.0	47.4	44.6	47.3
R1	50.2	44.9	46.8	45.0	46.7
R2	47.5	45.8	46.8	45.1	46.3
R3	47.0	46.6	43.2	41.9	44.7
1964		(± 2.34)			(± 1.17)
S14	48.6	45.8	47.3	43.9	46.4
S28	47.9	47.4	44.8	44.3	46.1

OMITTING RO

1964		(± 2.70)			(± 1.35)
C	46.9	47.2	45.9	46.3	46.6
D	49.6	44.4	45.3	41.7	45.2
1964		(± 2.70)			(± 1.35)
B	48.6	45.4	43.5	44.2	45.4
A	47.8	46.2	47.7	43.8	46.4

Mean D.M. %: 75.4