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Yields of the Field Experiments 1965

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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