

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 1964

[Full Table of Content](#)



64/W/WBD/C/19 Row Spacing and Fertilisers

Rothamsted Research

Rothamsted Research (1965) *64/W/WBD/C/19 Row Spacing and Fertilisers ; Yields Of The Field Experiments 1964*, pp 191 - 193 - DOI: <https://doi.org/10.23637/ERADOC-1-160>

64/C/19.1

ROW SPACING AND FERTILISERS

(WBD)

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

Design: Two replicates of 4 x 2 x 2 x 2 in 4 blocks of 16 plots each.

Area of each plot: 0.0030. Area harvested: 0.0022.

Treatments: All combinations of:-

1. Levels of NPK (in the proportion 1.0N, 1.0 P₂O₅, 1.5 K₂O) to supply: None (F0), 0.66 (F1), 1.32 (F2), 2.0 (F3) 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 in. x 14 in. (S14), 14 in. x 28 in. (S28).
5. Also to barley 1965, concentrated NPK fertiliser to supply none, 0.33, 0.66, 1.00 cwt N.

Basal dressing: None.

Cultivations, etc.: Chisel ploughed: Dec 7, 1963. Ploughed: Jan 3, 1964. B fertilisers applied: Apr 29. Rotary cultivated, A fertilisers applied: Apr 30. Potatoes hand planted on flat: May 1. Sprayed with diquat/paraquat (Preaglone Extra at 2 pints in 40 gals): May 15. Sprayed twice with dimethoate at 4.8 fluid oz in 40 gals: June 8 and July 6. Sprayed twice with copper oxychloride fungicide at 2.3 lb Cu in 40 gals: July 3 and 17. Lifted: Sept 14. Variety: King Edward (chitted). Previous crops: Grass 1962, winter wheat 1963.

Standard error per plot.

Total tubers: 0.960 or 5.6% (30 d.f.)

64/c/19.2

SUMMARY OF RESULTS

ROW SPACING

TOTAL TUBERS

	FO	F1	F2	F3	Mean
Mean	13.01	16.84 (±0.240)	19.05	19.42	17.08
C		16.78 (±0.340)	19.52	19.38	18.56 (±0.196)
D		16.90	18.58	19.45	18.31
B		16.36 (±0.340)	18.58	19.07	18.00 (±0.196)
A		17.33	19.52	19.76	18.87
S14	14.20	17.71 (±0.340)	20.33	20.14	18.09 (±0.170)
S28	11.82	15.97	17.77	18.69	16.06

OMITTING FO

CB	DB	CA	DA
17.83	18.18 (±0.277)	19.30	18.44
C S14	D S14	C S28	D S28
19.37	19.41 (±0.277)	17.75	17.21
B S14	A S14	B S28	A S28
18.89	19.90 (±0.277)	17.11	17.84

64/C/19.3

ROW SPACING

% WARE

	FO	F1	F2	F3	Mean
Mean	52.8	59.2	61.0	63.3	59.1
C		56.8	60.3	64.9	60.7
D		61.6	61.7	61.6	61.6
B		60.5	59.9	61.8	60.7
A		57.9	62.2	64.8	61.6
S14	44.4	50.0	54.8	56.6	51.4
S28	61.2	68.4	67.3	70.0	66.7

OMITTING FO

CB	DB	CA	DA
60.7	60.7	60.7	62.5
C S14	D S14	C S28	D S28
53.2	54.4	68.2	68.9
B S14	A S14	B S28	A S28
54.0	53.6	67.5	69.6