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

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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