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65/W/WBU/C/18 Row Spacing and Fertilisers 1965-66 - Potatoes

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65/c/18.1

ROW SPACING AND FERTILISERS

(WBU)

Row spacing and concentrated fertilisers - Woburn Workhouse 1965, the first year. Potatoes 1965 followed by barley 1966.

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

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

Treatments: All combinations of:-

1. Levels of NPK (in the proportion 1.0 N, 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 1966, concentrated NPK fertiliser to supply none, 0.33, 0.66, 1.00 cwt N.

Basal applications: Weedkiller: diquat/paraquat (Preeglone Extra at 2 pints in 40 gals). Fungicide/insecticide: 8 lb Bordeaux mixture plus malathion/DDT (Kil at 10 fluid oz) in 40 gals, on 2 occasions. Fungicide: Bordeaux mixture at 8 lb in 40 gals on 2 occasions.

Cultivations, etc.: Ploughed: Jan 19 - 26, 1965. B fertilisers applied: Apr 13. Rotary cultivated, A fertilisers applied: Apr 21. Potatoes hand planted on the flat: Apr 21. Sprayed (weedkiller): May 7, fungicide/insecticide: July 5, July 16, fungicide: July 28, Aug 5. Sprayed with diquat (Reglone at 4 pints in 40 gals): Aug 11. Lifted: Sept 20. Variety: King Edward. Previous crops: Permanent Grass until 1964.

NOTE: The crop was severely infected with blight.

Standard error per plot.

Total tubers: 1.717 or 13.8% (30 d.f.)

65/c/18.2

SUMMARY OF RESULTS

ROW SPACING

TOTAL TUBERS

	F0	F1	F2	F3	Mean
Mean	13.39	12.46 (± 0.429)	11.69	12.16	12.43
C		12.63 (± 0.607)	12.77	12.54	12.65 (± 0.350)
D		12.30	10.60	11.78	11.56
B		12.46 (± 0.607)	11.87	11.72	12.02 (± 0.350)
A		12.46	11.51	12.60	12.19
S14	14.14	13.39 (± 0.607)	13.21	12.94	13.42 (± 0.303)
S28	12.65	11.53	10.17	11.39	11.43

OMITTING F0

CB	DB	CA	DA
12.56	11.48 (± 0.496)	12.73	11.65
C S14	D S14	C S28	D S28
14.01	12.35 (± 0.496)	11.29	10.77
E S14	A S14	E S28	A S28
12.96	13.41 (± 0.496)	11.08	10.98

65/C/18.3

ROW SPACING

% WARE

	FO	F1	F2	F3	Mean
Mean	75.8	77.8	78.0	75.6	76.8
C		76.4	77.0	76.1	76.5
D		79.1	78.9	75.0	77.7
B		74.9	81.4	75.6	77.3
A		80.6	74.5	75.6	76.9
S14	74.2	72.2	73.9	70.9	72.8
S28	77.4	83.3	82.0	80.3	80.7

OMITTING FO

CB	DB	CA	DA
77.9	76.6	75.2	78.7
C S14	D S14	C S28	D S28
71.4	73.3	81.7	82.0
B S14	A S14	B S28	A S28
73.5	71.1	81.0	82.7