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65/W/WBT/C/5 Methods of Application of Fertiliser 1964-65 - Potatoes

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65/C/51

METHODS OF APPLICATION OF FERTILISER, 1965 - 1966

(WBT)

Methods of application of fertiliser - Woburn Broadmead I, 1965 the first year - potatoes.

Design: 3 randomised blocks of 12 plots.

Area of each plot: 0.0212. Area harvested: 0.0133.

Treatments: None (10) - 3 plots per block - and all combinations of:-

1. Levels of (13:13:20) to supply (cwt):

N	P ₂ O ₅	K ₂ O	
0.66	0.66	1.02	(11)
1.33	1.33	2.03	(12)
2.00	2.00	3.07	(13)

2. Methods of application: Broadcast (B), placed (P), broadcast and rotary cultivated in (BR).

NOTE: The experiment is designed to include an additional factor applied to the 1966 wheat crop, viz. PK broadcast on the seedbed and 'Nitro-Chalk' as spring dressing to supply:

N, P₂O₅ and K₂O at levels as (10), (11), (12) above.

Basal applications: Manures: None. Weedkiller: Linuron at 2 lb plus paraquat at 0.75 lb ion in 40 gals. Fungicide: Mancozeb at 1.2 lb in 37 gals.

Cultivations, etc.: Ploughed: Dec 10, 1964. BR fertilisers applied to ploughed land, all plots rotary cultivated: Apr 1, 1965. B fertilisers applied, potatoes machine planted: Apr 8. Sprayed (weedkiller): May 10, fungicide: July 3 and 16. Sprayed with diquat (Reglone at 4 pints in 34 gals): Aug 17. Lifted: Sept 28. Variety: King Edward. Previous crops: Winter wheat 1963, barley 1964.

Standard error per plot.

Total tubers: 0.933 or 8.5% (24 d.f.)

65/C/5.2

SUMMARY OF RESULTS

	I0	I1	I2	I3	Mean
TOTAL TUBERS					
		(±0.538)			(±0.311)
B		9.74	12.96	14.86	12.52
P		13.14	15.42	14.85	14.47
BR		10.09	11.53	14.37	12.00
Mean (±0.311)	5.11	10.99	13.30	14.69	11.02*
% WARE					
B		89.9	94.5	94.7	93.0
P		91.4	95.3	94.4	93.7
BR		88.9	93.8	93.6	92.1
Mean	76.8	90.1	94.5	94.2	88.9*

* General mean