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# Yields of the Field Experiments 1962



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# 62/R/C/9 Methods of Application of Fertiliser - Potatoes

#### **Rothamsted Research**

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62/0/9.1

#### POTATOES

Methods of application of fertiliser - Great Knott I 1962, the first year.

Design: 3 randomised blocks of 12 plots each.

Area of each plot: 0.0199 acres. Area harvested: 0.0133 acres.

Treatments: None (0) (3 plots per block); and all combinations of:-Levels of compound fertiliser (13% N, 13% P<sub>2</sub>O<sub>5</sub>, 20% K<sub>2</sub>O) to supply (cwt per acre):-

N	P205	K20	
0.66	0.66	1.02	(1)
1.32	1.32	2.03	(1) (2) (3)
2.00	2.00	3.07	(3)

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 1963 wheat crop, viz. compound fertiliser (14% P<sub>2</sub>O<sub>5</sub>, 28% K<sub>2</sub>O) and superphosphate broadcast on seedbed and 'Nitro-Chalk' as spring top dressing to supply:-

N,  $P_2^0$  and  $K_2^0$  at levels as (0), (1), (2) above.

Basal dressing: None.

Cultivations, etc.: Ploughed: Oct 26, 1961. 'BR' treatments applied, all plots rotary cultivated, 'B' treatments applied: Apr 16, 1962. Potatoes planted with 'P' treatments: Apr 17. Earthed up: July 6. Sprayed with maneb at 1½ lb in 18 gallons per acre: July 18. Sprayed with copper oxychloride fungicide at 2.3 lb Cu in 20 gallons per acre: Aug 9. Sprayed with undiluted BOV at 18 gallons per acre: Sept 18. Haulm destroyed mechanically, crop lifted: Oct 9. Variety: Majestic. Previous crops: Winter wheat 1960, barley 1961.

Standard error per plot.
Total tubers: 0.942 tons per acre or 7.4% (24 d.f.)

62/0/9.2

### Summary of Results

Method of application	Level of compound fertiliser				
of fertiliser	0	1	2	3	Mean
	Total t				
	(±0.544)				(±0.314)
Broadcast Placed Broadcast and rotovated in		13.05 14.48 13.19	13.63	14.37 11.15 15.23	13.82 13.09 14.22
Mean (±0.314)	9.52	13.57	13.97	13.58	12.65* (±0.181)
	Percentage ware (11 riddle)				
Broadcast Placed Broadcast and rotovated in		94•9 95•8 95•7	95.2 95.4 96.1	95•4 94•7 95•6	95•2 95•3 95•8
Mean	94•3	95.5	95.6	95.2	95.1*

## Level of compound fertiliser

	cwt per acre				
	N	P205	K20		
(0) (1) (2) (3)		None			
(1)	0.66	0.66	1.02		
(2)	1.32	1.32	2.03		
(3)	2.00	2.00	3.07		

<sup>\*</sup>General mean