

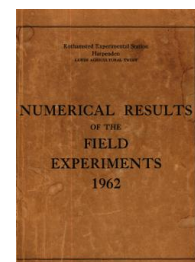
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Yields of the Field Experiments 1962

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

Rothamsted Research

Rothamsted Research (1963) *62/R/C/9 Methods of Application of Fertiliser - Potatoes* ; Yields Of The Field Experiments 1962, pp 118 - 119 - DOI: <https://doi.org/10.23637/ERADOC-1-164>

62/C/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% P₂O₅, 20% K₂O) to supply (cwt per acre):-

N	P ₂ O ₅	K ₂ O	
0.66	0.66	1.02	(1)
1.32	1.32	2.03	(2)
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% P₂O₅, 28% K₂O) and superphosphate broadcast on seedbed and 'Nitro-Chalk' as spring top dressing to supply:-

N, P₂O₅ and K₂O 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/C/9.2

Summary of Results

Method of application of fertiliser	Level of compound fertiliser				Mean
	0	1	2	3	
	<u>Total tubers: tons per acre</u>				
	(±0.544)				(±0.314)
Broadcast		13.05	14.04	14.37	13.82
Placed		14.48	13.63	11.15	13.09
Broadcast and rotovated in		13.19	14.24	15.23	14.22
Mean (±0.314)	9.52	13.57	13.97	13.58	12.65* (±0.181)
	<u>Percentage ware (1½" riddle)</u>				
Broadcast		94.9	95.2	95.4	95.2
Placed		95.8	95.4	94.7	95.3
Broadcast and rotovated in		95.7	96.1	95.6	95.8
Mean	94.3	95.5	95.6	95.2	95.1*

Level of compound fertiliser

	cwt per acre		
	N	P ₂ O ₅	K ₂ O
(0)		None	
(1)	0.66	0.66	1.02
(2)	1.32	1.32	2.03
(3)	2.00	2.00	3.07

*General mean