

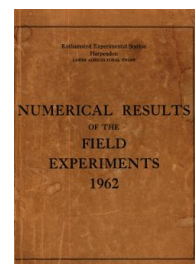
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1962

[Full Table of Content](#)



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% P_2O_5 , 20% K_2O) to supply (cwt per acre):-

N	P_2O_5	K_2O	
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% P_2O_5 , 28% K_2O) and superphosphate broadcast on seedbed and 'Nitro-Chalk' as spring top dressing to supply:-

N, P_2O_5 and K_2O 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 $1\frac{1}{2}$ 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 ($1\frac{1}{2}$" 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