

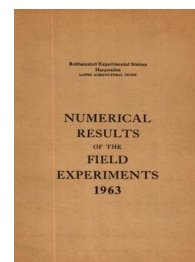
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Yields of the Field Experiments 1963

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63/R/AR/C/5 Methods of Application of Fertiliser 1962-63 - Potatoes

Rothamsted Research

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63/c/5.1

METHODS OF APPLICATION OF FERTILISER 1963 - 64.

(AR)

Methods of application of fertiliser - Great Knott II 1963, the first year - potatoes.

Design: 3 randomised blocks of 12 plots each.

Area of each plot: 0.0212 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 1964 wheat crop, viz. PK 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: Mar 28 - Apr 10, 1963. Rotary cultivated, potatoes planted: May 7. Earthed up: June 27. Sprayed with maneb at 1.2 lb in 20 gallons per acre: July 10. Sprayed with copper fungicide at 2.3 lb copper in 20 gallons per acre: July 29, and again at the same rate plus 0.35 pint menazon per acre: Aug 15. Sprayed with undiluted BOV at 16 gallons per acre: Sept 23. Lifted: Oct 21. Variety: King Edward. Previous crops: Barley 1961, spring beans 1962.

Standard error per plot.

Total tubers: 0.786 tons per acre or 7.3% (24 d.f.)

Erratum to 'Numerical Results of the Field Experiments' 1962 page 62/c/9.1,
'Total tubers: tons per acre'. Delete the standard error '(±0.181)'
 under the general mean.

63/C/5.2

Summary of Results

Method of application of fertiliser	Level of compound fertiliser				Mean
	0	1	2	3	
<u>Total tubers: tons per acre</u>					
	(± 0.454)				(± 0.262)
Broadcast	10.86	12.40	13.10	12.12	
Placed	10.08	11.93	13.83	11.95	
Broadcast and rotovated in	9.51	12.42	13.98	11.97	
Mean (± 0.262)	7.23	10.15	12.25	13.64	10.81*

Percentage ware (1.5 inch riddle)

Broadcast	96.3	94.8	95.3	95.5
Placed	93.4	94.1	93.7	93.7
Broadcast and rotovated in	95.4	95.8	95.6	95.6
Mean	93.8	95.1	94.9	94.6*

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