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# Yields of the Field Experiments 1964



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## 64/R/AY/C/5 and 64/W/WBC/C/5 Methods of Application of Fertiliser 1963-64 - Potatoes

#### **Rothamsted Research**

Rothamsted Research (1965) 64/R/AY/C/5 and 64/W/WBC/C/5 Methods of Application of Fertiliser 1963-64 - Potatoes; Yields Of The Field Experiments 1964, pp 153 - 155 - DOI: https://doi.org/10.23637/ERADOC-1-160

64/C/5.1

#### METHODS OF APPLICATION OF FERTILISER 1964 - 65

#### (AY and WBC)

Methods of application of fertiliser - Rothamsted (R) Whittlocks and Woburn (W) Broad Mead II, 1964 the first year - potatoes.

Design (each field): 3 randomised blocks of 12 plots each.

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

Treatments: None (IO) (3 plots per block) and all combinations of:1. Levels of 13:13:20 to supply (cwt):

N P205 K20 0.66 0.66 1.02 (L1) 1.32 1.32 2.03 (L2) 2.00 2.00 3.07 (L3)

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 1965 wheat crop, viz. PK broadcast on seedbed and 'Nitro-Chalk' as spring dressing to supply:
N, P205 and K20 at levels as (0), (1), (2) above.

Basal dressing: None.

Cultivations, etc.:

Whittlocks (R). Ploughed: Oct 11, 1963. Fertilisers applied to ploughing: Apr 8, 1964. Rotary cultivated, fertilisers applied, potatoes planted: Apr 15. Earthed up: June 12. Sprayed three times with mancozeb at 1.2 lb in 35 gals: June 30, July 16, July 31. Sprayed with diquat (Reglone at 3 pints in 40 gals): Sept 8. Lifted: Sept 15. Variety: King Edward. Previous crops: Winter and spring wheat 1962, spring wheat 1963.

Broad Mead (W). Ploughed twice: Oct 2, 1963 and Jan 13, 1964.
Fertilisers applied to ploughing: Apr 9. Rotary cultivated:
Apr 13. Fertilisers applied, potatoes planted: Apr 14. Sprayed with diquat/paraquat (Preeglone Extra at 2 pints in 40 gals):
May 12. Sprayed with mancozeb at 1.6 lb in 50 gals: June 25, and again at 1.2 lb in 36 gals: July 14. Sprayed with diquat (Reglone at 3 pints in 40 gals): Sept 2. Lifted: Sept 10.
Variety: King Edward. Previous crops: Spring wheat 1962, barley 1963.

Standard errors per plot. Total tubers:
Whittlocks (R): 0.610 or 5.6% (24 d.f.)
Broad Mead II (W): 1.985 or 17.4% (24 d.f.)

64/c/5.2

#### SUMMARY OF RESULTS

#### WHITTLOCKS (R)

	IO	L1	12	L3	Mean	
	lote each	TOTAL TU		denny E st	Meri apse	
	(±0.352)					
B P BR		11.23 10.72 10.27	12.83 13.04 13.01	13.92 13.27 14.60	12.66 12.34 12.63	
Mean (±0.209)	6.18	10.74	12.96	13.93	10.95*	
		% WAR	E of herah			
B P BR	.e roda	90.4 86.3 88.3		91.4 91.4 91.1	90.6 89.8 90.4	
Mean	82.0	88.3	91.2	91.3	88.2*	

<sup>\*</sup> General mean

64/c/5.3

### BROAD MEAD II (W)

	LO	L1	12	L3	Mean
		TOTAL TUB	ERS		
		(±1.146)			(±0.662)
B P BR		9.82 12.96 10.06	11.90 15.55 13.50	14.84 14.09 14.66	12.19 14.20 12.74
Mean (±0.662)	6.51	10.94	13.65	14.53	11.41*
		% WA	RE		
B P BR		84.2 89.1 88.4	85.7 86.0 88.0	80.0 78.3 85.9	83.3 84.5 87.4
Mean	82.4	87.2	86.6	81.4	84.4*

<sup>\*</sup> General mean