

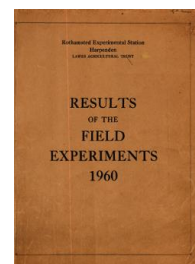
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# Yields of the Field Experiments 1960

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## 60/R/B/10 N Levels and Residues Rotation

### Rothamsted Research

Rothamsted Research (1961) *60/R/B/10 N Levels and Residues Rotation* ; Yields Of The Field Experiments 1960, pp 76 - 77 - DOI: <https://doi.org/10.23637/ERADOC-1-180>

60/B/10.1

### N LEVELS AND RESIDUES ROTATION

Direct and residual effects of sulphate of ammonia - Long Hoos III  
1960 (preliminary year).

Rotation: Wheat, potatoes.

Design (each crop): 3 randomised blocks of 9 plots each.

Area of each plot (acres): 0.0212. Area harvested: Wheat - 0.0141;  
Potatoes - 0.0035.

#### Treatments:

Nitrogen (applied as sulphate of ammonia).  
To wheat: None; 0.5; 1.0 cwt per acre.  
To potatoes: None; 0.75; 1.5 cwt per acre.  
(Three plots per block for each treatment in 1960.)

#### Basal dressing (per acre):

To wheat:  $2\frac{1}{2}$  cwt compound fertiliser, 12%  $P_2O_5$ , 24%  $K_2O$  combine  
drilled.  
To potatoes: 6 cwt compound fertiliser, 12%  $P_2O_5$ , 24%  $K_2O$ ,  
broadcast on the flat.

Cultivations, etc.: All land ploughed: Nov 3, 1959.

Wheat: Combine drilled with basal fertiliser, sulphate of ammonia  
broadcast by hand: Mar 19, 1960. Sprayed with TCB/MCPA at  
4 pints in 40 gallons per acre: May 10. Combine harvested:  
Sept 13. Variety: Jufy I. Previous crop: Spring wheat.

Potatoes: Basal fertiliser and sulphate of ammonia broadcast on  
flat: Apr 13, 1960. Ridged, potatoes planted: Apr 14.  
Earthed up: June 21. Sprayed with copper fungicide at 5 lb  
in 40 gallons per acre: July 15 and Aug 9. Sprayed with  
undiluted BOV at 15 gallons per acre: Aug 31. Haulm destroyed  
mechanically: Sept 21. Lifted\*: Dec 1. Variety: Ulster  
Supreme. Previous crop: Spring wheat.

\*Hand dug. Harvested area very much reduced, because of wet  
conditions.

#### Standard errors per plot.

Wheat, grain (at 85% dry matter): 2.48 cwt per acre or 10.4%  
(22 d.f.)  
Potatoes, total tubers: 0.942 tons per acre or 6.1% (22 d.f.)

60/B/10.2

Summary of Results

Wheat, (grain at 85% dry matter): cwt per acre

	N: cwt per acre		Mean
None	0.5	1.0	
16.4	24.8	30.3	23.8
	(±0.83)		
Mean dry matter % as harvested: 82.3			

Potatoes

	N: cwt per acre		Mean
None	0.75	1.50	
<u>Total tubers: tons per acre</u>			
11.99	16.33	17.71	15.34
	(±0.314)		
<u>Percentage ware (1½" riddle)</u>			
96.1	97.5	98.0	97.2