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# Yields of the Field Experiments 1966

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## 66/W/WCW/B/8 Cultivation-weedkiller Rotation

### Rothamsted Research

Rothamsted Research (1967) *66/W/WCW/B/8 Cultivation-weedkiller Rotation* ; Yields Of The Field Experiments 1966, pp 113 - 115 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

66/B/8.3

SUMMARY OF RESULTS

POTATOES

	M	X	Y	Mean
TOTAL TUBERS				
		(±1.862)		(±1.075)
P	16.92	20.25	19.11	18.76
R	17.57	16.46	18.52	17.52
T	17.45	17.87	16.19	17.17
Mean (±1.075)	17.31	18.19	17.94	17.81

% WARE

P	94.7	93.2	95.5	94.5
R	95.9	95.8	92.8	94.8
T	94.9	93.1	92.4	93.5
Mean	95.2	94.0	93.6	94.3

BARLEY

GRAIN

	N1	N2	N3	Mean
		(±2.31)		(±1.34)
P	21.2	27.8	34.4	27.8
R	17.9	30.4	34.2	27.5
T	24.1	31.1	35.4	30.2
Mean (±1.34)	21.1	29.7	34.7	28.5

Mean D.M. %: 83.3



66/B/9.1

## INTENSIVE CEREALS

(WIC)

Woburn Stackyard Classical Site 1966 - the first year

To investigate the growing of continuous winter wheat in comparison with a five course rotation, both with heavy dressings of fertilisers. There is a similar experiment involving spring barley.

These experiments are respectively, wheat on part of the site of the Continuous Wheat Experiment 1877 - 1954 and the barley on part of the site of the continuous barley. As well as crop yields, soil carbon and nitrogen will be studied, and the incidence of soil-borne diseases.

Design: For each cereal: 2 randomised blocks of 6 plots, split for N.

Area of each sub-plot: 0.0103. Area harvested: Wheat and barley - 0.0067, potatoes - 0.0069. Area of each whole plot: 0.0431. Area harvested: Ley - 0.0411.

Treatments: Wheat blocks: All combinations of:-

1. Whole plots: cropping:  
Continuous wheat: Five course rotation, in all phases:  
1 year ley, potatoes, wheat, wheat, wheat.
2. Sub-plots: Nitrogen to wheat:  
0.5 (N1), 1.0 (N2), 1.5 (N3), 2.0 (N4) cwt N as 'Nitro-Chalk' as spring top-dressing.

Treatments: Barley blocks: All combinations of:-

1. Whole plots: cropping:  
Continuous barley: Five course rotation, in all phases:  
1 year ley, potatoes, barley, barley, barley.
2. Sub-plots: Nitrogen to barley:  
0.4 (N1), 0.8 (N2), 1.2 (N3), 1.6 (N4) cwt N as 'Nitro-Chalk' applied in the seedbed.

Varieties: Potatoes: Pentland Dell  
Wheat: Cappelle  
Barley: Maris Badger  
Ley: 1 lb English Italian ryegrass, 2 lb Danish Italian ryegrass, 1.5 lb English Broad Red clover, 0.5 lb Canadian Alsike Clover.  
Mixture sown at 29 lb.

Other applications:

All crops: 1.0 cwt P2O5, 2.0 cwt K2O, half ploughed in, half worked into the seedbed.

Ley: 0.4 cwt N as 'Nitro-Chalk'.

Potatoes: 1.2 cwt N as 'Nitro-Chalk'.