ROTHAMSTED RESEARCH

Yields of the Field Experiments 1965

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65/R/BV/C/23 Growth Study Residues - Barley

Rothamsted Research

Rothamsted Research (1966) *65/R/BV/C/23 Growth Study Residues - Barley ;* Yields Of The Field Experiments 1965, pp 209 - 210 **- DOI: https://doi.org/10.23637/ERADOC-1-159**

65/C/23.1

GROWTH STUDY RESIDUES

(BV)

Residues of fertilisers applied to potatoes for growth study 1964, Highfield VI, barley 1965.

Design: 2 replicates of 4 x 2 x 2 in 4 blocks of 8 plots.

Area of each plot: 0.0257. Area harvested: 0.0171.

Treatments:
To potatoes 1964: All combinations of:-
1. N: None (N0), 0.75 (N1), 1.50 (N2), 3.0 cwt (N4) as 'Nitro-Chalk'.
2. P: None (P0), 1.5 cwt (P1) P2O5 as superphosphate.
3. K: None (K0), 1.5 cwt (K1) K2O as sulphate of potash.

To barley 1965: None.

Basal applications: 0.75 cwt N as 'Nitro-Chalk' combine drilled.
Weedkiller: Mecoprop/2,4-D (Methoxone Extra at 6 pints in 34 gals).

Cultivations, etc.: Ploughed: Nov 17, 1964. Seed drilled at 155 lb: Mar 29, 1965. Sprayed: May 19. Combine harvested: Sept 2. Variety: Maris Badger. Previous crops: Barley 1962, spring beans 1963.

NOTES: (1) In 1964 potatoes were sampled frequently but no full-scale yields were taken.
(2) Owing to a fault in the combine harvester the yields from two adjacent plots (N3P1K1 and N0P1K0) were bulked. Estimated values were used in the analysis.

Standard error per plot.
Grain: 1.26 or 3.8% (12 d.f.)

https://doi.org/10.23637/ERADOC-1-159

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SUMMARY OF RESULTS

GRAIN

	N0	N1	N2	N4	Mean
Mean (±0.45)	34.9	33.0	33.3	31.2	33.1
		(±0.63)			(±0.32)
P0	34.6	33.3	31.9	31.7	32.9
P1	35.2	32.7	34.7	30.6	33.3
		(±0.63)			(±0.32)
K0	35.7	33.2	33.2	31.7	33.4
K1	34.1	32.9	33.4	30.6	32.7

	P0	P1
	(±0.45)	
K0	33.3	33.6
K1	32.5	33.0

Mean D.M. %: 71.9

https://doi.org/10.23637/ERADOC-1-159