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65/R/AX/C/10 N and N P K Residues - Barley

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65/c/10.1

N AND NPK RESIDUES

(AX)

An investigation of the relative importance of short term N and PK residues - Fosters West Side, the second year, barley 1965.

Design: 4 randomised blocks of 16 plots (with kale and wheat 1964 on sub-blocks of 8 plots) with interactions involving residual N confounded.

Area of each plot: 0.0193. Area harvested: 0.0128.

Treatments: All combinations of:-

In 1964

1. Spring wheat and kale.
2. N: None (R0), 0.5 (R1), 1.0 (R2), 1.5 (R3) cwt as 'Nitro-Chalk'.
3. PK: None (O), 2.0 cwt P205 and 2.0 cwt K20 as compound (O:20:20) (C).

To barley 1965

4. N: None (N0), 0.33 (N1), 0.66 (N2), 1.00 (N3) cwt N as 'Nitro-chalk'.

Basal applications: Manures: None. Weedkiller: Mecoprop/2,4-D (Methoxone Extra at 6 pints in 34 gals).

Cultivations, etc.: Ploughed: Dec 9, 1964. 'Nitro-Chalk' applied, seed drilled at 156 lb: Mar 29, 1965. Sprayed: May 20. Combine harvested: Sept 1. Variety: Maris Badger.

Standard error per plot. Grain:
Sub plot: 1.67 or 4.9% (14 d.f.)

65/C/10.2

SUMMARY OF RESULTS

	NO	N1	N2	N3	Mean
AFTER WHEAT 1964					
Mean (± 0.59)*	25.7	36.9	37.5	37.1	34.3
		(± 1.18)*			(± 0.59)*
R0	24.5	35.1	37.5	38.8	34.0
R1	22.9	36.0	37.1	38.0	33.5
R2	27.5	38.5	38.2	36.8	35.3
R3	28.0	37.8	37.2	34.9	34.5
		(± 0.83)*			(± 0.42)*
O	26.5	37.6	37.4	37.2	34.7
C	25.0	36.1	37.5	37.1	33.9
AFTER KALE 1964					
Mean (± 0.59)*	21.5	34.5	38.7	38.8	33.3
		(± 1.18)*			(± 0.59)*
R0	19.8	33.7	38.4	40.2	33.0
R1	19.2	34.8	39.0	36.9	32.5
R2	22.7	33.1	39.4	39.4	33.6
R3	24.4	36.3	37.9	38.6	34.3
		(± 0.83)*			(± 0.42)*
O	22.8	34.0	38.4	39.4	33.6
C	20.2	34.9	38.9	38.2	33.1

* For use in comparisons only within the same previous crop

65/C/10.3

Mean over 'after Wheat' and 'after Kale' 1964

	NO	N1	N2	N3	Mean
Mean (± 0.42)	23.6	35.7	38.1	38.0	33.8
		(± 0.83)			(± 0.42)
R0	22.2	34.4	38.0	39.5	33.5
R1	21.0	35.4	38.0	37.4	33.0
R2	25.1	35.8	38.8	38.1	34.4
R3	26.2	37.0	37.6	36.8	34.4
		(± 0.59)			(± 0.29)
O	24.6	35.8	37.9	38.3	34.2
C	22.6	35.5	38.2	37.6	33.5

Mean D.M. %: 78.3