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67/R/BY/C/15 Previous Crops and N for Barley 1966-67 - Barley

Rothamsted Research

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67/C/15.1

PREVIOUS CROPS & N FOR BARLEY 1966 - 67

(BY)

The effect of previous cropping and nitrogen on the yield of barley -
Fosters Corner 1967, the second year - barley.

Design: 3 randomised blocks of 9 plots, split into 3 for N.

Area of each sub plot: 0.0107. Area harvested: 0.0067.

Treatments: All combinations of:-

Whole plots (applied 1966):-

1. Cropping: Spring wheat (W), Kale (K), Italian Ryegrass (G).
2. Nitrogen: None (R0), 1.0 (R2), 2.0 (R4) cwt N as 'Nitro-Chalk'.

Sub plots (applied to barley 1967):-

3. Nitrogen: None (N0), 0.5 (N1), 1.0 (N2) as 'Nitro-Chalk'.

Basal applications: 2.5 cwt (0:20:20) combine drilled. Weedkiller:
Mecoprop at 1.5 a.e. in 20 gals.

Cultivations, etc.: Ploughed: Nov 25, 1966. Seed drilled at 145 lb,
'Nitro-Chalk' applied: Mar 6, 1967. Sprayed: May 16. Combine
harvested: Aug 21. Variety: Maris Badger.

NOTE: For previous year's results see 'Results' 66/C/19.

Standard errors per plot. Grain:

Whole plot: 0.95 or 2.6% (16 d.f.)

Sub plot: 2.06 or 5.5% (36 d.f.)

67/C/15.2

SUMMARY OF RESULTS

GRAIN				
	R0	R2	R4	Mean
		(± 0.55)		(± 0.32)
W	38.6	37.7	39.4	38.6
K	40.8	40.7	40.1	40.5
G	30.3	33.3	34.3	32.6
Mean (± 0.32)	36.6	37.3	38.0	37.3
	N0	N1	N2	
		(1) and (2)		
W	36.6	40.3	38.9	
K	37.0	43.5	41.1	
G	22.6	36.8	38.4	
Mean (± 0.40)	32.1	40.2	39.5	
		(1) and (2)		
R0	29.5	39.8	40.5	
R2	31.3	40.7	39.8	
R4	35.5	40.1	38.2	

(1) (± 0.64) For use in vertical and diagonal comparisons(2) (± 0.69) For use in horizontal and interaction comparisons

67/C/15.3

	GRAIN									
	W			K			G			
	NO	N1	N2	NO	N1	N2	NO	N1	N2	
						(1) and (2)				
R0	34.0	40.9	41.0	34.3	44.3	43.7	20.1	34.1	36.7	
R2	34.5	40.4	38.2	37.1	44.4	40.6	22.1	37.3	40.6	
R4	41.2	39.6	37.6	39.6	41.7	39.1	25.7	39.1	38.0	

(1) (± 1.12) For use in comparisons involving different C & R

(2) (± 1.19) For use in comparisons within the same C & R

Mean D.M. %: 83.9