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65/R/BP/C/26 Legumes and Barley - Barley

Rothamsted Research

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65/C/26.1

LEGUMES AND BARLEY

(BP)

Effects of crop sequences and green manures - Stackyard 1965,
the first year - Barley.

Design: 2 randomised blocks of 10 plots each, plots being split
into 2 for N.

Area of each sub-plot: 0.0199. Area harvested: 0.0133.

Treatments: All combinations of:-

Whole plots:

1. Crop sequences (C):

	1	2	3	4	5	6	7	8	9	10
1965	B	B	B	B	B	B	B	B	B	B
Undersown	Cl	T	T	-	-	-	-	-	T	T
1966	H	B	O	B	O	B	O	Be	B	O
Undersown	-	T	T	T	T	-	-	-	-	-
1967	B	B	B	B	B	B	B	B	B	B

Sub-plots:

2. Nitrogen: 0.4 (N1), 0.8 (N2), cwt N as 'Nitro-Chalk' in
seedbed (none to beans and hay).

B = Barley, H = Hay, O = Oats, Be = Spring beans, Cl = Red Clover,
T = Trefoil.

Basal applications: 280 lb compound 0:20:20 broadcast. Weedkiller:
MCPB at 2 lb a.e. in 40 gals.

Cultivations, etc.: Ploughed: Nov 24, 1964. Rotary cultivated:
Mar 15 and 31, 1965. Basal PK applied: Apr 2. Rotary
cultivated, barley drilled at 155 lb: Apr 3. 'Nitro-Chalk'
applied, trefoil at 30 lb, clover at 30 lb sown: Apr 5. Sprayed:
May 20. Combine harvested: Sept 1. Varieties: Barley -
Maris Badger, trefoil - English, clover - Broad Red. Previous
crops: Kale and potatoes 1963, barley 1964.

Standard errors per plot. Grain:

Whole plot: 0.65 or 1.6% (9 d.f.)

Sub plot: 1.15 or 2.8% (10 d.f.)

65/C/26.2

SUMMARY OF RESULTS

	N1	N2	Mean
	(1) and (2)		
C1	39.5	41.2	40.3
	(3) and (4)		
C2, 3, 9, 10	41.5	41.5	41.5
	(5) and (6)		
C4, 5, 6, 7, 8	41.7	40.7	41.2
Mean	41.4 (±0.26)	41.1	41.2

Mean D.M.%: 77.4

(1) (±0.74) (3) (±0.48) (5) (±0.43) For use in vertical and diagonal comparison
 (2) (±0.81) (4) (±0.41) (6) (±0.36) For use in horizontal and interaction comparison