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67/R/BP/C/13 Legumes and Barley - Barley

Rothamsted Research

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67/C/13.1

LEGUMES AND BARLEY

(BP)

Effects of crop sequences and green manures - Stackyard 1967, the third year - barley.

Design: 2 randomised blocks of 10 plots, plots being split into 4 for N.

Area of each sub plot: 0.0101. Area harvested: 0.0062.

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

Half plots:

2. Nitrogen (applied 1965 and 1966): 0.4 (R1), 0.8 (R2) cwt N as 'Nitro-Chalk' in seedbed (none to beans and hay).

Quarter plots:

3. Nitrogen to barley 1967: None (N0), 0.3 (N1), 0.6 (N2), 0.9 (N3) cwt N as 'Nitro-Chalk' in seedbed.

B = barley, H = hay, O = oats, Be = spring beans, Cl = red clover, T = trefoil.

Basal applications: 280 lb (0:20:20) combine drilled: Weedkiller: Mecoprop/2,4-D (Methoxone Extra at 6 pints in 35 gals).

Cultivations, etc.: Hay plots ploughed: Sept 15, 1966. Corrective K applied to hay plots at 1.0 cwt K2O as muriate of potash: Oct 4. Ploughed: Jan 13, 1967. Seed drilled at 140 lb: Mar 17. 'Nitro-Chalk' applied: Mar 23. Sprayed: May 11. Combine harvested: Aug 21. Variety: Maris Badger.

NOTE: For previous years' results see 'Results' 65/C/26 and 66/C/17.

67/c/13.2

Standard errors per plot. Grain

Crop Sequences 2 3 4 5 6 7 9 10

Whole plot: 9.75 or 38.2% (6 d.f.)

1/4 plot: 4.57 or 17.9% (14 d.f.)

Crop Sequences 1 and 8

1/4 plot: 3.11 or 9.7% (6 d.f.)

67/c/13.3

SUMMARY OF RESULTS

GRAIN

Crop Sequences 2 3 4 5 6 7 9 10

	R1	R2	N0	N1	N2	N3	Mean
			(1) and (2)				(±4.88)
C2	18.5	19.9	16.1	19.0	20.0	21.8	19.2
C3	34.8	26.1	18.4	27.9	31.4	44.1	30.4
C4	24.2	23.4	10.1	25.1	28.3	31.7	23.8
C5	33.2	27.2	18.7	28.8	38.8	34.5	30.2
C6	23.2	19.6	14.2	16.1	20.8	34.4	21.4
C7	29.7	30.6	17.1	33.5	32.7	37.2	30.2
C9	21.3	15.2	9.2	17.4	22.5	24.1	18.3
C10	30.5	31.4	19.5	23.9	41.0	39.4	30.9
Mean	26.9	24.2	15.4	24.0 (±1.14)	29.4	33.4	25.5

Mean D.M. %: 81.1

Crop Sequences 1 and 8

	(3) and (4)				(±2.38)
C1	31.4	36.3	41.0	38.7	36.9
C8	21.2	17.5	32.1	38.1	27.2
Mean	26.3	26.9 (±1.56)	36.5	38.4	32.0

Mean D.M. %: 79.9

(1) (±5.62) (3) (±3.05) For use in vertical and diagonal comparisons
 (2) (±3.23) (4) (±2.20) For use in horizontal and interaction comparisons