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67/R/CU/C/27 Legumes and Barley - Various Crops

Rothamsted Research

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67/C/27.1

LEGUMES AND BARLEY

(CH)

Effects of crop sequences and green manures - Highfield IV 1967, the first year.

Design: 2 randomised blocks of 12 plots.

Area of each plot: 0.0521. Area harvested: Barley and oats - 0.0276, oilseed rape - 0.0296, red clover - 0.0059, spring beans - 0.0311.

Treatments:

Crop sequences (C):-

	1	2	3	4	5	6	7
1967	B	B	O	O	Ra	Cl	Be
Undersown	-	T	-	T	-	-	-
1968	B	B	B	B	B	B	B

With nitrogen in 1967: 0.4 (N1), 0.8 (N2) cwt N as 'Nitro-Chalk' to oats and barley, 0.8 (N2), 1.6 (N4) to oilseed rape, none to beans and clover.

B = Barley, O = Oats, Ra = Oilseed Rape, Cl = Red Clover, Be = Spring beans, T = Trefoil.

Basal and other applications: 280 lb (0:20:20) broadcast, ground chalk at 40 cwt to southern half, at 80 cwt to northern half. Weed-killers: Beans - simazine at 1 lb in 32 gals, barley and oats (excluding undersown plots) - ioxynil/mecoprop (Actril C at 5 pints in 20 gals). Insecticides: Beans - demeton-s-methyl at 3 oz in 37 gals and later at 3.75 oz in 30 gals by hand, oilseed rape - malathion at 18 oz in 30 gals.

Cultivations, etc.: Ploughed: Nov 4, 1966. Ground chalk applied: Jan 6 and Feb 9, 1967. Basal PK compound applied, oats drilled at 160 lb, barley at 140 lb, beans at 200 lb, weedkiller applied to beans: Mar 8. 'Nitro-Chalk' applied to oats and barley: Mar 28. Clover sown at 30 lb: Mar 29. Oilseed rape sown at 7.5 lb: Mar 30. Trefoil sown at 32 lb: May 9. Weedkiller applied to barley and oats: June 1. Insecticides applied: Beans - June 14, rape - June 16, beans - July 7. Clover cut twice: Aug 4 and Oct 2. Combine harvested: Oats - Aug 22, barley - Aug 23, beans - Sept 1, oilseed rape - Sept 6. Varieties: Oats - Manod, barley - Maris Badger, beans - Tarvin, oilseed rape - Nilla, clover - Dorset Marl, trefoil - English (inoculated seed).

67/C/27.2

SUMMARY OF RESULTS

GRAIN

UNDERSOWN

	-	T	Mean
BARLEY			
N1	31.1	32.3	31.7
N2	36.8	34.0	35.4
Mean	34.0	33.1	33.6

Mean D.M. %: 82.5

OATS			
N1	32.7	32.3	32.5
N2	36.4	34.5	35.5
Mean	34.6	33.4	34.0

Mean D.M. %: 83.3

67/C/27.3

OILSEED RAPE

SEED

N2	N4	Mean
17.5	16.2	16.9

Mean D.M. %: 85.8

RED CLOVER

	1ST CUT	2ND CUT	TOTAL OF 2 CUTS
Mean	29.2	22.9	52.1
Mean D.M. %:	18.0	14.7	16.4

SPRING BEANS

GRAIN

Mean	30.6
Mean D.M. %:	74.2