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Yields of the Field Experiments 1966

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66/R/BJ/C/16 Intensive Winter Wheat - Winter Barley

Rothamsted Research

Rothamsted Research (1967) *66/R/BJ/C/16 Intensive Winter Wheat - Winter Barley* ; Yields Of The Field Experiments 1966, pp 179 - 180 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

66/c/17.1

LEGUMES AND BARLEY

(BP)

Effects of crop sequences and green manures - Stackyard 1966, the second year.

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

Area of each sub-plot: 0.0198. Area harvested: Barley - 0.0131, beans - 0.0124, oats - 0.0132, clover - 0.0047.

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 (0:20:20) in early spring to hay, placement drilled to beans, combine drilled to oats and barley. Insecticide to beans: Demeton-s-methyl (Metasystox at 12 fluid oz in 37 gals).

Cultivations, etc.: Ploughed (except H plots): Jan 28, 1966. All plots except H plots rotary cultivated, beans drilled at 200 lb: Mar 14. Oats drilled at 160 lb and barley at 156 lb, 'Nitro-Chalk' applied to barley and oats: Mar 15. Trefoil sown at 30 lb: Mar 19. Basal PK applied to clover: Mar 21. Clover cut three times: June 3, July 14 and Sept 14. Beans sprayed: June 14. Barley combine harvested: Aug 19. Oats combine harvested: Sept 3.

NOTE: For the previous year's results see 'Results' 65/c/26.

Standard errors per plot. Grain:

Barley. Sub-plot: 4.97 or 20.6% (4 d.f.)

Oats. Sub-plot: 3.73 or 9.1% (4 d.f.)

66/C/17.2

SUMMARY OF RESULTS

BARLEY

GRAIN

Undersown 1965	Undersown 1966		N1	N2	Mean
	-	T			
-	24.8	25.8	21.0	29.6	25.3
T	23.3	22.4	17.1	28.5	22.8
Undersown 1966			(±2.48)*		
-			19.7	28.4	24.0
T			18.5	29.7	24.1
Mean (±1.76)			19.1	29.1	24.1

* For use in horizontal and interaction comparisons only.

Mean D.M. %: 83.0