

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1966

[Full Table of Content](#)



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

	H	B	O	B	O	B	O	Be	B	O
1966	H	B	O	B	O	B	O	Be	B	O
Undersown	-	T	T	T	T	-	-	-	-	-

	B	B	B	B	B	B	B	B	B	B
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			
			(±2.48)*		
-	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