

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 1958

[Full Table of Content](#)



## 58/R/CB/5 and 58/W/CB/5 Barley - Varieties and N

### Rothamsted Research

Rothamsted Research (1959) *58/R/CB/5 and 58/W/CB/5 Barley - Varieties and N* ; Yields Of The Field Experiments 1958, pp 97 - 98 - DOI: <https://doi.org/10.23637/ERADOC-1-181>

58/Cb/5.1

BARLEY

Varieties and levels of nitrogen - Rothamsted (R) Great Knott III and Woburn (W) Lansome Field.

Design: 3 randomized blocks of 6 plots each, plots being split into 2 for the application of nitrogen.

Area of each sub plot (acres):	Area harvested (acres):
Great Knott III (R): 0.0103.	0.0069
Lansome Field (W): 0.0167.	0.0111.

Treatments: All combinations of:-

Whole plots. Varieties: Domen (1); Herta (2); Ingrid (3); Plumage Archer (4); Proctor (5); Rika (6).

Sub plots. Nitrogen, applied as sulphate of ammonia.

Great Knott III (R): None; 0.3 cwt N per acre  
Lansome Field (W): 0.4; 0.8 cwt N per acre.

Basal dressing:

Great Knott III (R):  $2\frac{1}{2}$  cwt compound fertilizer (12% N, 9%  $P_2O_5$ , 9%  $K_2O$ ) per acre combine drilled with seed.

Lansome Field (W):  $2\frac{1}{2}$  cwt compound fertilizer (16%  $P_2O_5$ , 16%  $K_2O$ ) per acre combine drilled with seed.

Cultivations, etc.:

Great Knott III (R): Ploughed: Oct 28 - Nov 6, 1957. Seed combine drilled at  $2\frac{1}{2}$  bushels (Proctor - 2 bushels) per acre: Apr 3 - 4, 1958. Sulphate of ammonia applied: Apr 8. Sprayed with MCPA at 4 pints in 40 gallons per acre: Apr 22. Combine harvested: Aug 26. Previous crop: Spring wheat.

Lansome Field (W): Ploughed: Nov 27 - 29, 1957. Sulphate of ammonia applied: Apr 3, 1958. Seed combine drilled at  $2\frac{3}{4}$  bushels per acre: Apr 11. Sprayed with MCPA at 5 pints in 40 gallons per acre: May 22. Combine harvested: Aug 27. Previous crop: Fallow.

Standard errors per plot, Grain (at 85% dry matter):

Great Knott III (R):

Whole plot: 1.14 cwt per acre or 3.7% (10 d.f.)

Sub plot: 0.81 cwt per acre or 2.6% (12 d.f.)

Lansome Field (W):

Whole plot: 1.38 cwt per acre or 4.2% (10 d.f.)

Sub plot: 1.88 cwt per acre or 5.8% (12 d.f.)

58/Cb/5.2

Summary of Results

Grain (at 85% dry matter): cwt per acre

N: cwt per acre (including basal)	Variety						Mean
	1	2	3	4	5	6	
	Great Knott III (R)						
	( $\pm 0.73$ )*						
0.3	26.5	30.5	26.8	24.9	30.6	29.7	28.1
0.6	30.0	36.4	33.2	30.6	36.7	34.2	33.5
Mean ( $\pm 0.65$ )	28.2	33.5	30.0	27.8	33.6	31.9	30.8
Difference ( $\pm 0.66$ )	3.5	5.9	6.4	5.7	6.1	4.5	5.4 ( $\pm 0.27$ )

Mean dry matter % as harvested: 74.4

N: cwt per acre	Lansome Field (W)						Mean
	1	2	3	4	5	6	
	( $\pm 1.10$ )*						
0.4	32.1	33.0	33.4	29.9	34.1	35.0	32.9
0.8	31.3	30.9	33.5	26.3	37.1	32.8	32.0
Mean ( $\pm 0.79$ )	31.7	31.9	33.4	28.1	35.6	33.9	32.4
Difference ( $\pm 1.54$ )	-0.8	-2.1	+0.1	-3.6	+3.0	-2.2	-0.9 ( $\pm 0.63$ )

Mean dry matter % as harvested: 83.1

\* for use in comparisons other than vertical.