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Yields of the Field Experiments 1964

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64/R/RB101/DB/1 and 64/W/WB101/DB/1 Barley - Varieties and N

Rothamsted Research

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64/Db/1.1

BARLEY

(RB 101 and WB 101)

Varieties and N - Rothamsted (R) Great Knott III and Woburn (W)
Butt Close 1964.

Design: 4 randomised blocks of 7 plots each, plots being split into
3 for application of N.

Area of each sub-plot:	Area harvested:
Great Knott III (R): 0.0096	0.0064
Butt Close (W): 0.0112.	-

Treatments. All combinations of:-

1. Varieties: Sown at 2.75 bushels: Plumage Archer (A), Maris Badger (B), Cambrinus (C), Europa (E), Impala (I), Proctor (P),
Sown at 2.25 bushels: Proctor (PL).
2. Nitrogen: 0.3 (N1), 0.6 (N2), 0.9 (N3) cwt N as 'Nitro-Chalk'.

Basal dressing: 2 cwt (0:20:20) combine drilled.

Cultivations, etc.:

Great Knott III (R). Ploughed twice: Sept 26 - Nov 26, 1963 and
Jan 6, 1964. Seed drilled: Mar 9. 'Nitro-Chalk' applied:
Mar 26. Sprayed with mecoprop/2,4-D (Methoxone Extra at 6
pints in 40 gals): May 14. Combine harvested: Aug 20.
Previous crops: Potatoes 1962, winter wheat 1963.

Butt Close (W). Ploughed twice: Oct 2, 1963 and Jan 6, 1964.
'Nitro-Chalk' applied: Feb 27. Seed drilled: Feb 28. Sprayed
with mecoprop/2,4-D (Methoxone Extra at 6 pints in 40 gals):
May 6. Combine harvested: Aug 27. Previous crops: Spring
beans and carrots 1962, winter wheat 1963.

NOTE: In the experiment on Butt Close (W) varieties C, E and I (only)
showed severe yellowing. Later all varieties grew badly from
unknown causes and no yields were taken.

Standard errors per plot. Grain:

Great Knott III (R):	Whole plot: 0.90 or 2.2% (18 d.f.)
	Sub plot: 3.13 or 7.6% (42 d.f.)

64/Db/1.2

SUMMARY OF RESULTS

Great Knott III (R)

GRAIN

	N1	N2	N3	Mean
	(1) and (2)			(± 0.29)
A	28.3	32.3	39.5	33.4
B	44.1	48.2	44.6	45.6
C	39.8	42.6	46.4	42.9
E	37.7	37.6	39.1	38.1
I	42.4	49.2	49.2	46.9
P	34.8	42.8	44.1	40.6
PL	37.7	43.6	42.3	41.2
Mean (± 0.59)	37.8	42.3	43.6	41.2

Mean D.M. %: 83.3

- (1) ± 1.57 For use in horizontal and interaction comparisons
 (2) ± 1.36 For use in vertical and diagonal comparisons