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Numerical Results of the Field Experiments 1968

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68/DB/4 Deep Drilled Fertiliser - Barley

Rothamsted Research

Rothamsted Research (1970) *68/DB/4 Deep Drilled Fertiliser - Barley* ; Numerical Results Of The Field Experiments 1968, pp 319 - 320 - DOI: <https://doi.org/10.23637/ERADOC-1-58>

68/Db/4.1

BARLEY

(RB 401 & WB 201)

Deep drilled fertiliser - Rothamsted (R) Great Knott II and Woburn (W),
Schoolfield, 1968.

Design: 4 randomised blocks of 10 plots.

Area of each plot: Great Knott II (R): 0.0080. Area harvested: 0.0080
Schoolfield (W): 0.0061. 0.0080.

Treatments: All combinations of:-

1. Methods of fertiliser application: Injected deeply *(I),
broadcast (B).
 2. Fertiliser rates: 224 lb (1), 448 lb (2) (25:10:10).
 3. Row spacing: 4 (C), 8 (W) inches.
- Together with fertiliser combine-drilled at rate 1 (D1W) or rate
2 (D2W), row spacing 7 inches.

* by 'Tume' drill in rows 5.5 ins. apart.

Basal applications: Great Knott II (R): None. Schoolfield (W):
Weedkiller: Paraquat at 0.5 lb ion in 33 gals, ioxynil/mecoprop
(Atril C at 5 pints in 25 gals).

Cultivations, etc.:-

Great Knott II (R): Ploughed: 19 Sept, 1967. Fertiliser treatments
applied, seed drilled at 140 lb: 7 Mar, 1968. Combine harvested:
19 Aug. Variety: Zephyr. Previous crops: Spring beans 1966,
winter wheat 1967.

Schoolfield (W): Ploughed: 25 Sept, 1967. Paraquat applied:
2 Mar, 1968. Fertiliser treatments applied, seed drilled at
140 lb: 8 Mar. Ioxynil/mecoprop applied: 27 Apr. Combine
harvested: 21 Aug. Variety: Zephyr. Previous crops:
Barley 1966 and 1967.

Standard errors per plot. Grain:

Great Knott II (R): 3.33 or 9.2% (27 d.f.)
Schoolfield (W): 1.91 or 8.6% (27 d.f.)

68/Db/4.2

SUMMARY OF RESULTS

GRAIN

GREAT KNOTT II (R) SCHDOLFIELD (W)

	(±1.66)	(±0.96)
I1C.	37.1	25.7
I1W	34.4	23.3
I2C	38.7	21.6
I2W	34.2	21.8
B1C	36.4	24.5
B1W	34.7	21.9
B2C	40.5	22.4
B2W	36.0	18.2
D1W	37.1	24.2
D2W	32.5	18.2
Mean	36.2	22.2
Mean D.M. %:	77.2	79.5