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Yields of the Field Experiments 1965

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65/W/WB201/DB/2 Barley - Urea

Rothamsted Research

Rothamsted Research (1966) *65/W/WB201/DB/2 Barley - Urea* ; Yields Of The Field Experiments 1965, pp 257 - 258 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

65/D6/2.1

BARLEY

(WB 201)

Urea concentrations in NPK fertilisers - Woburn Great Hill S.W. 1965.

Design: 2 randomised blocks of 20 plots.

Area of each plot: 0.0055. Area harvested: 0.0042.

Treatments: None (0) (4 plots per block) and all combinations of:-

1. Compound fertilisers (all in the proportion N:P2O5:K2O of 2:1:1) combine drilled:-

Compounds with P as triple superphosphate:-

P, N as 100% urea.

Q, N as 66% urea and 33% ammonium nitrate.

R, N as 33% urea and 66% ammonium nitrate.

S, N as 100% ammonium nitrate.

Compounds with P and part N as monourea phosphate, remaining N as follows:-

T, as 100% urea.

U, as 66% urea and 33% ammonium nitrate.

V, as 33% urea and 66% ammonium nitrate.

W, as 100% ammonium nitrate.

K as muriate of potash in all compounds.

2. Levels: To supply 0.5 (I1), 1.0 (I2) cwt N.

Basal applications: Manures: None. Weedkiller: dichlorprop/MCPA (Cornox RK Extra at 6 pints in 50 gals).

Cultivations, etc.: Ploughed: Nov 27, 1964. Rotary cultivated: Mar 12, 1965. Seed drilled at 140 lb: Mar 15. Sprayed: May 10. Combine harvested: Aug 25. Variety: Maris Badger. Previous crops: Sugar beet 1963, barley 1964.

NOTE: Grain and straw samples were taken for yield and N percentage. Grain yields also were taken at harvest.

Standard errors per plot.

Grain: 3.91 or 10.7% (21 d.f.)

65/Db/2.2

SUMMARY OF RESULTS

GRAIN

	P	Q	R	S	T	U	V	W	Mean
	(±2.77)								(±0.98)
L1	41.9	39.1	40.7	41.4	37.7	38.3	40.6	33.9	39.2
L2	42.0	43.5	41.6	46.3	38.0	40.5	42.3	42.9	42.2
Mean (±1.96)	42.0	41.3	41.1	43.8	37.9	39.4	41.5	38.4	40.7

Plots receiving no fertiliser: 19.6 (±1.38)

General mean: 36.5

Mean D.M. %: 75.5