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Numerical Results of the Field Experiments 1968

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68/DA/10 Anhydrous Ammonia As a Fertiliser - S. Wheat

Rothamsted Research

Rothamsted Research (1970) *68/DA/10 Anhydrous Ammonia As a Fertiliser - S. Wheat* ; Numerical Results Of The Field Experiments 1968, pp 309 - 310 - DOI:

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68/Da/10.1

SPRING WHEAT

(RW 801)

Anhydrous ammonia as a fertiliser - Little Hoos 1968.

Design: 4 randomised blocks of 8 plots.

Area of each plot: 0.0321. Area harvested: 0.0210.

Treatments: All combinations of:-

1. Forms of N: Broadcast 'Nitro-Chalk' (B), injected anhydrous ammonia (I).
2. Levels of N: 0.5 (N1), 1.0 (N2), 1.5 (N3) cwt N together with no nitrogen - without (NO), with (NOI), the injector running idle through the soil.

Basal applications: 280 lb (0:14:28) combine drilled. Weedkillers: Paraquat at 0.5 lb ion in 32 gals in winter. Mecoprop/2,4-D (Methoxone Extra at 6 pints in 32 gals).

Cultivations, etc.: Ploughed: 5 - 18 Sept, 1967. Paraquat applied: 4 Dec. Ammonia and 'Nitro-Chalk' applied, seed drilled at 185 lb: 7 Mar, 1968. Mecoprop/2,4-D applied: 17 May. Combine harvested: 5 Sept. Variety: Kloka. Previous crops: Potatoes 1966, spring wheat 1967.

Standard error per plot.

Grain: 1.28 or 4.7% (15 d.f.)

68/Da/10.2

SUMMARY OF RESULTS

GRAIN (WE)

	N1	N2	N3	Mean
		(±0.64)		(±0.37)
B	28.9	27.9	25.6	27.5
I	27.4	28.1	25.8	27.1
Mean (±0.45)	28.2	28.0	25.7	27.3

NO NOI
 18.5 19.3
 (±0.64)

General mean: 25.2

Mean D.M. %: 78.9