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Yields of the Field Experiments 1966

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66/R/RW601/DA/4 and 66/W/WW301/DA/4 Spring Wheat - Anhydrous Ammonia

Rothamsted Research

Rothamsted Research (1967) *66/R/RW601/DA/4 and 66/W/WW301/DA/4 Spring Wheat - Anhydrous Ammonia* ; Yields Of The Field Experiments 1966, pp 251 - 253 - DOI:
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66/Da/4.1

SPRING WHEAT

(RW 601 and WW 301)

Anhydrous ammonia as a fertiliser - Rothamsted (R) Great Knott III and Woburn (W) Lansome 1966.

Design: 4 randomised blocks of 8 plots.

Area of each plot: 0.0321. Area harvested: Great Knott III (R) - 0.0208, Lansome (W) - 0.0207.

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 empty through the soil.

Basal applications: 280 lb (0:20:20). Weedkiller: Great Knott III (R): Mecoprop/2,4-D (Methoxone Extra at 6 pints in 40 gals). Lansome (W): Ioxynil/mecoprop (Actril C at 5 pints in 35 gals).

Cultivations, etc.:

Great Knott III (R): Ground chalk applied at 22 cwt: Nov 8, 1965. Ploughed: Nov 15, 1965. Anhydrous ammonia injected: Mar 2, 1966. Seed drilled at 170 lb, basal PK and 'Nitro-Chalk' applied: Mar 16, 1966. Sprayed: May 17. Combine harvested: Sept 7. Variety: Klokka. Previous crops: Barley 1964, spring beans 1965.

Lansome (W): Ploughed: Sept 30 - Oct 25, 1965. Anhydrous ammonia injected: Mar 3, 1966. Seed drilled at 160 lb, basal PK and 'Nitro-Chalk' applied: Mar 15. Sprayed: May 13. Combine harvested: Sept 6. Variety: Klokka. Previous crops: Winter wheat 1964, barley 1965.

Standard errors per plot. Grain:

Great Knott III (R): 2.15 or 5.3% (21 d.f.)
Lansome (W): 3.57 or 14.8% (21 d.f.)

66/Da/4.2

SUMMARY OF RESULTS

GREAT KNOTT III (R)

GRAIN				
	N1	N2	N3	Mean
		(± 1.07)		(± 0.62)
B	43.7	45.6	43.6	44.3
I	36.6	46.3	46.9	43.3
Mean (± 0.76)	40.2	46.0	45.3	43.8

	NO	NOI	Mean
	31.7	31.1	31.4
	(± 1.07)		

General mean: 40.7

Mean D.M. %: 83.0

66/Da/4.3

LANSOME (W)

GRAIN

	N1	N2	N3	Mean
		(± 1.78)		(± 1.03)
B	23.9	32.8	37.2	31.3
I	17.7	30.2	36.5	28.1
Mean (± 1.26)	20.8	31.5	36.9	29.7

	NO	NOI	Mean
	6.6	7.6	7.1
	(± 1.78)		

General mean: 24.1

Mean D.M. %: 85.2