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Numerical Results of the Field Experiments 1969

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69/R/CS/47 - Thiourea - Spring Wheat

Rothamsted Research

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SPRING WHEAT

(69/R/CS/47)

Thiourea as a source of nitrogen and as a nitrification inhibitor to decrease loss of N from sulphate of ammonia, Fosters O and E I, 1969 the first year.

Design: 4 randomised blocks of 15 plots.

Area of each plot: 0.0014. Area harvested: 0.0001.

Treatments: The two factors below in all combinations which do not exceed 200 lb N:-

1. Levels of N as thiourea: 0 (U0), 50 (U1), 100 (U2), 150 (U3), 200 (U4) lb.
2. Levels of N as sulphate of ammonia: 0 (A0), 50 (A1), 100 (A2), 150 (A3), 200 (A4) lb.

Basal applications: 250 lb (0:14:28). Weedkiller: Paraquat at 0.5 lb ion in 25 gals.

Cultivations etc.: Ploughed: 6 Aug, 1968. Weedkiller applied: 18 Oct. Ploughed second time: 21 Oct. Basal PK broadcast, N treatments applied, seed drilled: 10 Apr, 1969. Harvested: 3 Sept. Variety: Kolibri. Previous crops: Grass 1967 and 1968.

NOTE: Crop samples were taken 5 times during the growing season for estimation of yield and N uptakes.

Standard error per plot.

Grain, cwt: 3.55 or 8.9% (42 d.f.)

SUMMARY OF RESULTS

SPRING WHEAT

	GRAIN: CWT	STRAW: CWT
	(± 1.77)	
UOA0	32.3	48.8
UOA1	41.4	61.5
UOA2	38.3	57.4
UOA3	41.7	60.0
UOA4	44.7	66.5
U1A0	39.2	61.1
U1A1	41.2	58.9
U1A2	41.7	58.9
U1A3	39.0	58.6
U2A0	39.5	58.9
U2A1	43.1	59.0
U2A2	42.4	58.1
U3A0	37.8	49.9
U3A1	35.3	51.7
U4A0	38.5	53.1
Mean	39.7	57.5

Mean D.M. %: Grain: 82.3
 Straw: 79.2