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71/R/WS/7 Effects of Blue/GREEN Algae - S. Wheat

Rothamsted Research

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71/R/WS/7

SPRING WHEAT

EFFECTS OF BLUE/GREEN ALGAE

Object: To study the effects of blue/green algae, at a range of nitrogen levels, on yield of spring wheat - Garden Plot 2.

Design: 2 randomised blocks of 24 plots.

Whole plot dimensions: 2.16 x 4.42. Area harvested: 0.00062.

Treatments: All combinations of:-

1. Cultures: None (0), culture A (A), culture B (B).
2. Time of application: Early (E) on 3 May, 1971, late (L) on 16 June, 1971.
3. Nitrogen: None, 45, 90, 135 kg as 'Nitro-Chalk'.

Basal applications: 565 kg (0:20:20) ploughed down in Autumn.

Cultivations, etc.: PK applied, all plots ploughed: 11 Dec, 1970.
Seed drilled at 188 kg: 29 Mar, 1971. N applied: 19 Apr. Combine harvested: 27 Aug. Variety: Sirius. Previous crops: Mixed cereals 1969, sugar beet 1970.

NOTE: The yields have been adjusted for a trend across the blocks.

Standard error per plot.

Grain, tonnes/hectare: 0.859 or 18.6% (22 d.f.)

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SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

N: KG/HA

	0	45	90	135	Mean
	(±0.430)				(±0.215)
O	4.05	4.53	3.83	6.42	4.71
A	3.62	5.08	5.09	5.23	4.75
B	3.44	4.98	4.30	4.91	4.41
Mean (±0.248)	3.71	4.86	4.40	5.52	4.62
	(±0.430)				(±0.215)
E	3.53	4.91	5.31	4.75	4.63
L	3.54	5.15	4.07	5.39	4.54
	E	L			
	(±0.304)				
A	4.75	4.76			
B	4.51	4.31			

Mean D.M. %: 79.4

NOTE: The 'no culture' yields were excluded from the tables involving time of application.