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Numerical Results of the Field Experiments 1968

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68/DA/1 Sowing Dates and Bulb Fly - W. Wheat

Rothamsted Research

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68/Da/1.1

WINTER WHEAT

(BG)

Sowing dates and bulb fly, Stackyard 1968.

Design: 4 randomised blocks of 3 plots, split into 2 for covering to prevent egg-laying (unrandomised).

Area of each sub plot: 0.0121. Area harvested: 0.0064.

Treatments: All combinations of:-

Whole plots: 1. Sowing dates: 10 Oct, 1967 (E), 27 Nov (M),
20 Dec (L).
Seed rate 180 lb.

Sub plots: 2. Not covered (O), covered with polythene sheet to prevent egg-laying 1 July to mid-September 1967 (C).

NOTE: The O sub plots were sprayed with diquat (Reglone at 4 pints in 30 gals) on 29 Aug 1967 to control weeds.

Basal applications: 280 lb (6:15:15) combine drilled, 0.8 cwt N as 'Nitro-Chalk' top dressed in spring, ground chalk at 50 cwt. Seed dressed with organo-mercury fungicide only. Weed-killers: Ioxynil at 9 oz and mecoprop at 27 oz in 20 gals.

Cultivations, etc.: Rotary cultivated: 5 June and 22 June, 1967.
Deep-tine cultivated: 30 June. Diquat applied to O sub plots: 29 Aug. Ploughed: 25 Sept. Ground chalk applied: 7 Oct. L plots rotary cultivated: 20 Dec. 'Nitro-Chalk' applied: 11 Apr, 1968. Ioxynil/mecoprop applied: 26 Apr. Combine harvested: 25 Aug. Variety: Cappelle.

NOTE: The populations of wheat bulb fly larvae were estimated from plant samples taken from uncovered plots.

Standard errors per plot. Grain:
Whole plot: 2.01 or 4.7% (6 d.f.)
Sub plot: 0.97 or 2.3% (9 d.f.)

68/Da/1.2

SUMMARY OF RESULTS

GRAIN

	E	M	L	Mean
	(1) and (2)			
O	46.0	40.7	39.5	42.1
C	47.2	42.4	39.9	43.2
Mean (± 1.00)	46.6	41.6	39.7	42.6

- (1) (± 1.42) For use in vertical comparisons only
- (2) (± 0.49) For use in interaction comparisons only

Mean D.M. %: 84.0