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67/R/BG1/DA/11 Winter Wheat - Sowing Date and Bulb Fly

Rothamsted Research

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67/Da/11.1

WINTER WHEAT

(BG 1)

Sowing dates and bulb fly - Stackyard 1967, the third year.

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

Area of each sub plot: 0.0096. Area harvested: 0.0064.

Treatments: All combinations of:-

Whole plots: 1. Sowing dates: Oct 28 (E), Nov 29 (M),
Dec 21 (L). (Seed rate 180 lb.)

Sub plots: 2. Not covered (O), covered with polythene
sheet to prevent egg-laying, late June to
mid-September 1966 (C).

Basal applications: 280 lb (6:15:15) combine drilled, 0.84 cwt N
as 'Nitro-Chalk' in spring. Weedkillers: Diquat (Reglone at
4 pints in 40 gals), ioxynil/mecoprop (Atril C at 6 pints in
20 gals). Seed dressed with organo-mercury fungicide only.

Cultivations, etc.: Rotary cultivated twice: Mar 30 and May 19,
1966. Deep-tine cultivated: June 9. Rotary cultivated:
July 1. Diquat applied: Oct 26. 'Nitro-Chalk' applied:
Apr 18, 1967. Ioxynil/mecoprop applied: May 9. Combine
harvested: Aug 30. Variety: Cappelle. Previous crops:
Winter wheat 1965, fallow 1966.

NOTES: (1) For the previous year's results see 'Results'
65/Da/5 and 66/Da/3.

(2) Samples were taken from late February until mid-May
to estimate numbers of plants, shoots and larvae
and damaged plants and shoots. Samples were taken
just before harvest to estimate ear number and grain
weight.

(3) It was intended to sow four blocks, but on one the
soil was too wet.

Standard errors per plot. Grain:

Whole plot: 6.46 or 15.9% (4 d.f.)

Sub plot: 5.57 or 13.8% (6 d.f.)

67/Da/11.2

SUMMARY OF RESULTS

GRAIN

	E	M	L	Mean
	(1) and (2)			
O	49.6	39.5	27.4	38.8
C	50.6	42.8	33.5	42.3
Mean (± 3.73)	50.1	41.1	30.4	40.6

- (1) (± 5.27) For use in horizontal comparisons only
 (2) (± 3.22) For use in interaction comparisons only

Mean D.M. %: 84.1