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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 (Actril 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)			
D	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