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72/R/WW/8 Winter Wheat Varieties, Sowing Dates and Bulb Fly

Rothamsted Research

Rothamsted Research (1973) *72/R/WW/8 Winter Wheat Varieties, Sowing Dates and Bulb Fly ; Yields Of The Field Experiments 1972*, pp 288 - 289 - DOI: <https://doi.org/10.23637/ERADOC-1-62>

72/R/WW/8

WINTER WHEAT

VARIETIES, SOWING DATES AND BULB FLY

Object: To study the growth, yield and incidence of wheat bulb fly (*Leptohylemyia coarctata*) in four varieties of wheat sown on two occasions - Stackyard.

Sponsor: R. Bardner.

Design: 4 randomised blocks of 8 plots.

Whole plot dimensions: 2.13 x 9.14. Area harvested: 0.00195.

Treatments: All combinations of:-

1. Varieties: Cappelle (CA), Joss Cambier (JC), Maris Ranger (MR), Maris Widgeon (MW).
2. Sowing dates: Early (12 Oct, 1971) (E), late (6 Dec, 1971) (L).

Basal applications: 270 kg (10:24:24) combine drilled, 500 kg 'Nitro-Chalk'. Weedkiller: Ioxynil at 0.63 kg and mecoprop at 1.89 kg in 220 l.

Seed: Dressed with fungicide only and sown at 200 kg.

Cultivations, etc.: Deep-tine cultivated: 11 Oct, 1971. N applied: 20 Apr, 1972. Weedkiller applied: 28 Apr. Combine harvested: 30 Aug. Previous crops: Winter wheat 1970, fallow 1971.

NOTE: Larval counts were taken throughout the growing season. Pupal counts were made from soil cores at the end of the season. Individual plants were marked in spring and examined before harvest to determine the relationship between larval attacks and plant growth. Emergence cages were used to determine the number of wheat bulb flies. 1000 grain weights were taken.

Standard error per plot.

Grain, tonnes/hectare: 0.503 or 9.1% (21 d.f.)

72/R/WW/8

TABLES OF MEANS

GRAIN: TONNES/HECTARE

VARIETY

| | CA | JC | MR | MW | Mean |
|------|------|------|------|------|------|
| DATE | | | | | |
| E | 7.63 | 6.31 | 7.46 | 7.39 | 7.20 |
| L | 3.90 | 2.95 | 4.39 | 4.23 | 3.87 |
| Mean | 5.77 | 4.63 | 5.93 | 5.81 | 5.53 |

STANDARD ERRORS OF DIFFERENCES

| VARIETY | DATE | VARIETY DATE |
|---------|-------|-----------------|
| 0.251 | 0.178 | 0.355 |

Mean D.M. %: 82.1