

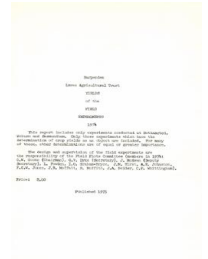
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74/R/WW/4 Seed Dressing Rates and Bulb Fly - W. Wheat

74/R/WW/4 *Seed Dressing Rates and Bulb Fly - W. Wheat*, Rothamsted Research (1975) Yields Of The Field Experiments 1974, pp 294 - 295 - DOI: <https://doi.org/10.23637/ERADOC-1-119>

74/R/WW/4

WINTER WHEAT

SEED DRESSING RATES AND BULB FLY

Object: To study the effects of a range of rates of two insecticidal seed dressings on attack by wheat bulb fly (*Leptohylemyia coarctata*) and yield of winter wheat - Great Harpenden I.

Sponsor: D.C. Griffiths.

Design: 4 randomised blocks of 12 plots.

Whole plot dimensions: 2.41 x 9.14. Area harvested: 0.00151.

Treatments: All combinations of:-

1. Insecticidal seed dressings:	INSECTIDE
Dieldrin	Dieldrin
Chlorfenvinphos	Chlorfen
2. Amounts of seed dressing (g/kg of seed):	AMT G KG
None	0.00
0.25	0.25
0.50	0.50
1.00	1.00
2.00	2.00
4.00	4.00

Basal applications: Manures: (0:20:20) at 380 kg, 'Nitro-Chalk' at 380 kg. Weedkillers: Dicamba with mecoprop and MCPA ('Banlene Plus' at 5.6 l in 340 l).

Seed: Cappelle, sown at 190 kg.

Cultivations, etc.: Spring-tine cultivated and seed sown: 31 Oct, 1973. N applied: 24 Apr, 1974. Weedkiller applied: 8 May. Combine harvested: 30 Sept. Previous crops: Potatoes 1972, fallow 1973.

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NOTES: (1) Plant density was assessed on 14 Dec, 1973 before insect attack and again on 6 May, 1974. Plant samples were taken on 27 Mar for counts of wheat bulb fly larvae.

Standard error per plot.

Grain, tonnes/hectare: 0.221 or 3.0% (34 d.f.)

TABLES OF MEANS

GRAIN: TONNES/HECTARE

AMT G KG

	0.00	0.25	0.50	1.00	2.00	4.00	Mean
INSTCDE							
Dieldrin		7.38	7.44	7.50	7.38	7.55	7.45
Chlorfen		7.36	7.38	7.48	7.42	7.40	7.41
Mean	7.41	7.37	7.41	7.49	7.40	7.47	7.43

STANDARD ERRORS OF DIFFERENCES

INSTCDE	AMT G KG	INSTCDE AMT G KG
0.070	0.110	0.156

Mean D.M. % 82.9