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

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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.

74/R/WW/4

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						Mean
	0.00	0.25	0.50	1.00	2.00	4.00	
INSC7CDE							
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

INSC7CDE	AMT G KG	INSC7CDE AMT G KG
0.070	0.110	0.156

Mean D.M. % 82.9