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Yields of the Field Experiments 1975

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75/ R/WW/7 - Insecticides & Bulb Fly - Winter Wheat

Rothamsted Research

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75/R/WW/7

WINTER WHEAT

INSECTICIDES AND BULB FLY

Object: To study the effects of different insecticidal seed dressings on attack by wheat bulb fly (*Leptohylemyia coarctata*) and yield of winter wheat - Fosters West.

Sponsor: D.C. Griffiths.

Design: 4 randomised blocks of 8 plots.

Whole plot dimensions: 2.41 x 9.14.

Treatments: 1. Insecticides (% a.i. to wt. of seed):-

		INSECTICIDE
None		NONE
Chlorfenvinphos	0.2	CHLORFEN
Fonofos	0.2	FONOFOS
Isophenphos	0.2	ISOPH 2
Isophenphos	0.5	ISOPH 5
Permethrin (NRDC 143)	0.2	PERMETHR
Pirimiphos ethyl	0.2	PIRIMIPH
Triazophos	0.2	TRIAZOPH

Basal applications: Manures: 'Nitro-Chalk' at 410 kg. Weedkiller: Ioxynil with mecoprop ('Actril C' at 7.0 l in 220 l).

Seed: Maris Templar, sown at 180 kg.

Cultivations, etc.:- Rotary harrowed: 5 Dec, 1974. Seed sown: 10 Dec. N applied: 25 Apr, 1975. Weedkiller applied: 19 May. Combine harvested: 15 Aug. Previous crops: Barley 1973, fallow 1974.

NOTE: Amounts of insecticides on seed were determined. Plant emergence counts were made in January and samples were taken in March for determination of number of damaged shoots and percentage with live wheat bulb fly larvae.

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*** TABLES OF MEANS ***

GRAIN TONNES/HECTARE

INSCDCDE	
NONE	4.62
CHLORFEN	5.88
FONOFOS	5.74
ISOPH 2	6.10
ISOPH 5	5.58
PERMETHR	5.99
PIRIMIPH	5.52
TRIAZOPH	5.32
MEAN	5.59

*** STANDARD ERRORS OF DIFFERENCES OF MEANS ***

TABLE	INSCDCDE
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SED	0.395

*** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION ***

STRATUM	DF	SE	CV%
BLOCK.WP	21	0.559	10.0

GRAIN MEAN DM% 86.5

PLOT AREA HARVESTED 0.00151