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82/R/WW/9 Erynia and Aphid Control - Winter Wheat

Rothamsted Research

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82/R/WW/9

WINTER WHEAT

ERYNIA AND APHID CONTROL

Object: To compare the effects of introducing *Erynia neoaphidis* with two forms and times of applying pirimicarb on cereal aphid population and grain yield - Geescroft.

Sponsors: N. Wilding, G.J.W. Dean.

Design: 3 randomised blocks of 7 plots.

Whole plot dimensions: 6.0 x 6.0.

Treatments:

APH CONT	Chemical and biological aphid control:
NONE	None
EN INTAC	<i>Erynia neoaphidis</i> applied as intact, dried, fungus-killed aphids at 2.5 kg on 15 June and 22 June
EN GRND	<i>Erynia neoaphidis</i> applied as ground, dried, fungus-killed aphids at 2.5 kg on 15 June and 22 June
PS 25 MY	Pirimicarb at 0.14 kg, standard formulation on 25 May
PS 8 JN	Pirimicarb at 0.14 kg, standard formulation on 8 June
PM 25 MY	Pirimicarb at 0.14 kg, microencapsulated on 25 May
PM 8 JN	Pirimicarb at 0.14 kg, microencapsulated on 8 June

Basal applications: Manures: 'Nitro-Chalk' applied at 480 kg. Weedkillers: Mecoprop (as 'Methoxone M' at 5.0 l) with isoproturon at 2.0 kg in 250 l.

Seed: Maris Huntsman, sown at 190 kg.

Cultivations, etc.: - Spring-tine cultivated: 8 Oct, 1981. Heavy spring-tine cultivated twice: 12 Oct. Spring-tine cultivated, rotary harrowed, seed sown: 13 Oct. Weedkillers applied: 15 Apr, 1982. N applied: 23 Apr. Combine harvested: 11 Aug. Previous crops: W. beans 1980, potatoes 1981.

NOTE: Aphid numbers were counted weekly during June and July. Samples of living aphids were taken to determine proportions of those infected with *Erynia*.

82/R/WW/9

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

APH CONT	
NONE	7.09
EN INTAC	7.79
EN GRND	7.92
PS 25 MY	7.54
PS 8 JN	7.82
PM 25 MY	7.49
PM 8 JN	7.07
MEAN	7.53

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

TABLE	APH CONT
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SED	0.652

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	0.798	10.6
GRAIN MEAN DM%	86.0		
PLOT AREA HARVESTED	0.00139		