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Yields of the Field Experiments 1983

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Rothamsted Research

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83/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 - Little Knott I.

Sponsor: N. Wilding.

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 (triplicated)
PS MY	Pirimicarb standard formulation on 27 May, 1983
PS JN	Pirimicarb standard formulation on 27 June
PM MY	Pirimicarb microencapsulated on 27 May
PM JN	Pirimicarb microencapsulated on 27 June

NOTES: (1) Because aphids were very few it was decided to omit the planned introduction of Erynia.
(2) The pirimicarb was applied at 0.14 kg in 340 l.

Basal applications: Manures: (5:14:30) at 310 kg. 'Nitro-Chalk' at 750 kg. Weedkillers: Glyphosate at 1.4 kg in 250 l. Paraquat at 0.84 kg ion in 250 l. Mecoprop, bromoxynil and ioxynil (as 'Brittox' at 3.5 l) with isoproturon at 2.0 kg in 250 l.

Seed: Maris Huntsman, sown at 190 kg.

Cultivations, etc.:- Glyphosate applied: 3 Aug, 1982. Disced three times: 26 Aug. Paraquat applied: 13 Oct. NPK applied, spring-tine cultivated, seed sown: 15 Oct. N applied: 13 Apr, 1983. 'Brittox' with isoproturon applied: 16 Apr. Combine harvested: 13 Aug. Previous crops: S. barley 1981, grass 1982.

NOTE: Aphid counts were made weekly from May to July.

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83/R/WW/9

GRAIN TONNES/HECTARE

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

APH CONT	
NONE	7.76
PS MY	7.86
PS JN	7.36
PM MY	7.55
PM JN	7.66
MEAN	7.67

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

TABLE	APH CONT	
SED	0.484	MIN REP
	0.396	MAX-MIN

	APH CONT
MAX-MIN	NONE V ANY OF REMAINDER
MIN REP	ANY OF REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	14	0.593	7.7

GRAIN MEAN DM% 88.5

PLOT AREA HARVESTED 0.00173

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