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83/R/WW/10 Erynia and Aphid Control in Cages - W. Wheat

Rothamsted Research

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83/R/WW/10

WINTER WHEAT

ERYNIA AND APHID CONTROL IN CAGES

Object: To determine whether *Erynia neoaphidis* can be established in cereal aphid populations by the distribution of triturated bodies of fungus-killed aphids - Long Hoos VI/VII 5.

Sponsor: N. Wilding.

Design: 3 blocks of 3 plots.

Whole plot dimensions: 2.03 x 2.13.

Treatments:

TREATMNT	Introduction of fungal-infected dead aphids:
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NONE	None
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ER JUNE	<i>Erynia neoaphidis</i> , 2 kg on 22 June
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ER JULY	<i>Erynia neoaphidis</i> , 2 kg on 7 July
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NOTE: Plots were enclosed by mesh-sided cages and *Sitobion avenae* and *Metopolophium dirhodum* were introduced in May.

Basal applications: Manures: 'Nitro-Chalk' at 540 kg. Weedkiller: Glyphosate at 1.5 kg in 340 l.

Seed: Maris Huntsman, sown at 210 kg.

Cultivations, etc.: - Weedkiller applied: 14 Sept, 1982. Ploughed: 15 Oct. Seed sown with harrow, seed drill combination: 17 Jan, 1983. N applied: 14 Apr. Harvested by hand: 18 Aug. Previous crops: Fallow 1981, w. and s. beans 1982.

NOTE: Aphids were counted weekly during June and July. Samples of live aphids were taken to determine proportions infected with *Erynia*.

83/R/WW/10

GRAIN TONNES/HECTARE

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

TREATMNT	NONE	ER JUNE	ER JULY	MEAN
	2.42	2.60	2.71	2.57

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

TABLE	TREATMNT
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SED	0.654

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

STRATUM	DF	SE	CV%
BLOCK.WP	4	0.801	31.1

GRAIN MEAN DM% 86.7

PLOT AREA HARVESTED 0.00010