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81/R/WW/6 Predators and Polythene Barriers - W. Wheat

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81/R/WW/6

WINTER WHEAT

PREDATORS AND POLYTHENE BARRIERS

Object: To study the effects of polythene barriers on the incidence of mobile insect predators and on the yield of w. wheat - Sawyers II.

Sponsors: R. Bardner, W. Powell, K.E. Fletcher, J.R. Lofty.

Design: 3 randomised blocks of 4 plots.

Whole plot dimensions: 19.2 x 19.2.

Treatments: All combinations of:-

1. BARRIER Polythene barriers, 45 cm above and 15 cm below soil surface from 7 May, 1981 until 17 Aug:

NONE	None
POLYTHEN	Polythene barriers on all sides of plots

2. INSECTICIDE Insecticide applied to soil surface:

NONE	None
FONOFOS	Fonofos at 4.5 kg on 11 May

Basal applications: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 390 kg. Weedkillers: Mecoprop, bromoxynil and ioxynil (as 'Brittox' at 3.7 l) in 250 l.

Seed: Flanders, sown at 200 kg.

Cultivations, etc.: - Heavy spring-tine cultivated: 13 Oct, 1980. Spring-tine cultivated: 14 Oct. Seed sown: 15 Oct. N applied: 15 Apr, 1981. Weedkillers applied: 17 Apr. Combine harvested: 25 Aug. Previous crops: W. wheat 1979, potatoes 1980.

NOTE: Soil surface predators were counted throughout the season, and wheat blossom midges and thrips were counted in July.

81/R/WW/6

GRAIN TONNES/HECTARE

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

INSCTCDE BARRIER	NONE	FONOFOS	MEAN
NONE	7.05	7.42	7.23
POLYTHEN	6.96	7.23	7.09
MEAN	7.00	7.32	7.16

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

TABLE	BARRIER	INSCTCDE	BARRIER INSCTCDE
SED	0.156	0.156	0.220

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.270	3.8

GRAIN MEAN DM% 84.4

PLOT AREA HARVESTED 0.00546