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## Yields of the Field Experiments 1980

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### 80/R/WW/8 Winter Wheat Predators and Polythene Barriers

#### Rothamsted Research

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80/R/WW/8

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 - Summerdells 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, 38 cm above and 15 cm below soil surface from 16 Apr, 1980 until harvest:

NONE	None
POLYTHEN	Polythene barriers

2. INSECTICIDE Insecticide applied to soil surface on 21 Apr:

NONE	None
FONOFOS	Fonofos at 4.48 kg

Basal applications: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 500 kg. Weedkillers: Mecoprop with bromoxynil and ioxynil (as 'Brittox' at 3.5 l) in 250 l. Isoproturon at 1.8 kg in 250 l.

Seed: Flanders, sown at 200 kg.

Cultivations, etc.:- Ploughed: 8 Oct, 1979. Rotary harrowed, seed sown: 15 Oct. N applied: 9 Apr, 1980. 'Brittox' applied: 14 Apr. Isoproturon applied: 15 Apr. Combine harvested: 23 Aug. Previous crops: S. barley 1978, s. beans 1979.

NOTE: Ground beetles were counted throughout the season, wheat blossom midges were counted on three occasions, aphids twice, and shoot borers once.

80/R/WW/8

GRAIN TONNES/HECTARE

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

INSCTCDE	NONE	FONOFOS	MEAN
BARRIER			
NONE	8.49	8.81	8.65
POLYTHEN	8.40	8.90	8.65
MEAN	8.45	8.85	8.65

GRAIN TONNES/HECTARE

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

TABLE	BARRIER	INSCTCDE	BARRIER INSCTCDE
	0.076	0.076	0.108

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.132	1.5

GRAIN MEAN DM% 85.5

PLOT AREA HARVESTED 0.00546