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Yields of the Field Experiments 1974

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74/R/CS/129 Pesticide and Pest Predators - Wheat

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74/R/CS/129

PESTICIDES AND PEST PREDATORS

Object: To study the residual effects of commonly used soil pesticides on predatory arthropods and to determine effects on yield of wheat - Road Piece.

Sponsor: C.A. Edwards.

The second year, winter wheat.

For previous year see 73/R/WW/8.

Design: 4 blocks of 6 plots.

Whole plot dimensions: 4.27 x 6.10. Area harvested: 0.00130.

Treatments: Residues of chemicals applied autumn 1972 (kg):-

CHEM RES

None	None
Benomyl at 4.5	Benomyl
Endrin at 3.6	Endrin
Endosulfan at 0.08	Endosulf
Tetradifon at 2.2	Tetradif
Phorate at 3.6	Phorate

Basal applications: Manures: (0:14:28) at 380 kg combine drilled. 'Nitro-Chalk' at 350 kg. Weedkiller: Dicamba with mecoprop and MCPA ('Banlene Plus' at 5.6 l in 370 l).

Seed: Cappelle, seed not dressed, sown at 200 kg.

Cultivations, etc.:- Discd twice and ploughed: 25 Sept, 1973. Power harrowed and seed sown: 25 Oct. N applied: 18 Apr, 1974. Weedkiller applied: 7 May. Combine harvested: 30 Aug. Previous crops: Grass 1972, wheat 1973.

NOTE: Numbers of earthworms were estimated.

Standard error per plot.

Grain, tonnes/hectare: 0.419 or 8.1% (15 d.f.)

74/R/CS/129

TABLE OF MEANS

GRAIN: TONNES/HECTARE

CHEM RES

None	Benomyl	Endrin	Endosulf	Tetradif	Phorate	Mean
4.84	5.18	5.47	5.28	5.13	5.31	5.20

STANDARD ERROR OF DIFFERENCES

CHEM RES

0.296

Mean D.M. % 83.4