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73/R/WW/8 - Pesticides & Pest Predators - Winter Wheat

Rothamsted Research

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73/R/WW/8

WINTER WHEAT

PESTICIDES AND PEST PREDATORS

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

Sponsor: C.A. Edwards.

Design: 4 blocks of 6 plots.

Whole plot dimensions: 4.27 x 6.10.

Treatments: Chemicals (kg):-

	CHEMICAL
None	O
Benomyl 4.5	BE
Endrin 3.6	ER
Endosulfan 0.08	ES
Tetradifon 2.2	TE
Phorate 3.6	PH

Treatments were applied on 2 Oct, 1972, tetradifon and phorate as granules, the other three in solution and all harrowed in.

Basal applications: Manures: (0:14:28) at 380 kg combine drilled. 'Nitro-Chalk' at 350 kg. Weedkiller: MCPA, mecoprop and dicamba ('Tetralex Plus' at 7.0 l in 220 l).

Seed: Cappelle, dressed with fungicide only, sown at 200 kg.

Cultivations, etc.: - Ploughed: 21 Sept, 1972. Power harrowed: 2 Oct. Seed sown: 12 Oct. N applied: 18 Apr, 1973. Weedkiller applied: 26 Apr. Combine harvested: 23 Aug. Previous crops: Grass 1971 and 1972.

- NOTES: (1) Soil cores for the estimation of soil fauna were taken on 7 Mar, 9 Apr, 29 May, 13 July and 20 Aug. Numbers of earthworms were estimated on 16 May.
- (2) Yields were not taken because of severe damage by birds.