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55/R/CA/2 Winter Wheat - Control of Bulb Fly (Insecticides)

Rothamsted Research

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WINTER WHEAT

Control of wheat bulb fly by insecticides - Pennell's Piece 1955.

Design: 4 randomized blocks of 6 plots each.

Area of each plot: 0.00643 acre.

Treatments: Insecticides:-

- None (2 plots per block). (0)
- Seed dressed with Technical Dieldrin (97%) at 2.25% of seed w/w using cellulose ether sticker. (1)
- 4% Dieldrin dust at 1 cwt per acre combine drilled with seed. (2)
- Sprayed early with Parathion 0.05% v/v at 100 gallons per acre. (3)
- Sprayed late with Parathion 0.05% v/v at 100 gallons per acre. (4)

Basal dressing per acre: 3 cwt nitrochalk, 20 cwt hydrated lime.

Note: All seed treated with organo-mercurial fungicide.

Cultivations, etc.: Ploughed (for bare fallow): Nov 2, 1953. Lime applied: Mar 3, 1954. Ploughed: May 17. Seed drilled at 2 bushels per acre: Dec 21. "3" plots sprayed with Parathion: Feb 11, 1955. "4" plots sprayed with Parathion: Apr 7. Nitrochalk applied: May 9. Combine harvested: Aug 24. Variety: Cappelle. Previous crop: Bare fallow.

Standard error per plot:

Grain (at 85% dry matter): 3.75 cwt per acre or 8.4% (16 d.f.)

Counts of numbers of plants, tillers, damaged tillers and of wheat bulb fly larvae were made.

Summary of Results

Grain (at 85% dry matter): cwt per acre

	Insecticide					Mean
	0	1	2	3	4	
Mean (± 1.88)	41.0 ⁽¹⁾	47.2	53.7	47.9	38.7	44.9
Increase (± 2.30)		+6.2	+12.7	+6.9	-2.3	

(1) ± 1.33

Mean dry matter % as harvested: 84.4