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57/R/CA/1 Winter Wheat - Control of Bulb Fly (Insecticides)

Rothamsted Research

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57/Ca/1

WINTER WHEAT

Control of wheat bulb fly by insecticides - Pennell's Piece 1957.

Design: 4 randomized blocks of 7 plots each.

Area of each plot: 0.0064 acres.

Treatments: Insecticides (per acre):-

- None (0)
- 4% Dieldrin dust, 1 cwt broadcast in late December (1)
- 4% Dieldrin dust, 1 cwt broadcast in early February (2)
- 4% Dieldrin dust, 1 cwt combine drilled with seed (3)
- 1½% Dieldrin dust, 1 cwt combine drilled with seed (4)
- 1½% Aldrin dust, 1 cwt combine drilled with seed (5)
- 1.2% Dieldrin granules, 1.5 cwt combine drilled with seed (6)

Basal dressing: 3 cwt 'Nitro-Chalk' per acre.

Note: all seed dressed with organo-mercurial fungicide.

Cultivations, etc.: Ploughed: Oct 10, 1956. Seed drilled at 2 bushels per acre: Nov 5. Dieldrin dust broadcast: Treatment '1' plots - Dec 18, treatment '2' plots - Feb 16. 'Nitro-Chalk' applied: Apr 27. Combine harvested: Aug 24. Variety: Cappelle. Previous crop: Bare fallow.

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

Standard error per plot.

Grain (at 85% dry matter): 3.34 cwt per acre or 6.4% (17 d.f.)

Note. The yields have been adjusted for a linear fertility trend along the blocks.

Summary of Results

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

	Insecticides							Mean
	0	1	2	3	4	5	6	
Mean (±1.67)	50.7	53.7	50.7	52.1	53.0	51.9	51.0	51.9
Increase (±2.36)		3.0	0.0	1.4	2.3	1.2	0.3	

Mean dry matter % as harvested: 82.9