

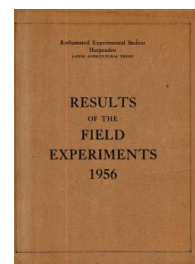
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Yields of the Field Experiments 1956

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56/R/CA/3 Winter Wheat - Incidence of Bulb Fly (Seed Rates)

Rothamsted Research

Rothamsted Research (1957) *56/R/CA/3 Winter Wheat - Incidence of Bulb Fly (Seed Rates)* ; Yields Of The Field Experiments 1956, pp 73 - 74 - DOI: <https://doi.org/10.23637/ERADOC-1-176>

56/Ca/3.1

WINTER WHEAT

Seed rates in relation to control of wheat bulb fly - Long Hoos VII the 3rd (final) year.

Design: 4 4x4 squares with treatments on rows in 1954 and on columns in 1955.

Area of each plot: 0.0151 acres. Area harvested: 0.0050 acres.

Treatments to spring wheat 1954 and to winter wheat 1955.

Bare fallow.

Seed rates: $\frac{1}{3}$; 1; 3 bushels per acre.

Basal dressings per acre for 1956 crop: 1 cwt compound granular fertilizer (12% N, 12% P_2O_5 , 15% K_2O) combine drilled with seed; 0.8 cwt N as "Nitro-Chalk".

Cultivations, etc.:

Ploughed: Sept 14, 1955. Seed combine drilled (all at $2\frac{3}{4}$ bushels per acre): Oct 28. "Nitro-Chalk" applied: Apr 30, 1956.

Combine harvested: Aug 31. Variety: Cappelle.

Note: seed treated with organo-mercurial fungicide only.

Standard errors per plot. Grain (at 85% dry matter):

Row: 1.94 cwt per acre or 5.7% (9 d.f.)

Column: 2.65 cwt per acre or 7.8% (9 d.f.)

Plot: 2.03 cwt per acre or 6.0% (27 d.f.)

Records were made of:

Number of wheat bulb fly larvae, weight per ear, number of grains per ear and plant number.

56/Ca/3.2

Summary of Results

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

1954 Treatments		1955 Treatments				Mean
		Fallow	Seed rate: bushels per acre			
			$\frac{1}{3}$	1	3	
		(1) (2) (3) and (4)				(± 0.97)
Seed rate: bushels per acre	Fallow	50.4	37.1	37.7	36.2	40.4
	$\frac{1}{3}$	47.7	30.8	28.4	23.3	32.6
	1	47.3	28.1	27.8	20.5	30.9
	3	47.5	31.1	26.6	23.1	32.1
Mean (± 1.32)		48.2	31.8	30.1	25.8	34.0

- (1) ± 1.59 for use in horizontal comparisons only.
- (2) ± 1.31 for use in vertical comparisons only.
- (3) ± 1.79 for use in diagonal comparisons only.
- (4) ± 1.01 for use in interaction comparisons only.

Mean dry matter % as harvested: 74.9