

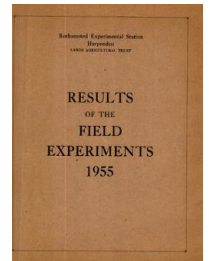
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Yields of the Field Experiments 1955

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55/R/CA/3 Winter Wheat - Control of Bulb Fly (Seed Rates)

Rothamsted Research

Rothamsted Research (1956) *55/R/CA/3 Winter Wheat - Control of Bulb Fly (Seed Rates)* ; Yields Of The Field Experiments 1955, pp 74 - 74 - DOI: <https://doi.org/10.23637/ERADOC-1-175>

55/Ga/3

WHEAT

Seed rates in relation to control of wheat bulb fly - Long Hoos 7.
Preliminary years 1954 (spring wheat) and 1955 (winter wheat).

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

Area of each plot: 0.063 acre. Area harvested: 1954 - 0.0226 acre.
1955 - 0.0262 acre.

Treatments: 1954 and 1955.

Bare fallow.

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

The 1954 treatments were ignored in 1955, so that there were, in effect, 4 randomized blocks of 3 plots in each year.

Basal dressings per acre.

1954. $2\frac{1}{2}$ cwt sulphate of ammonia.

1955. $1\frac{1}{2}$ cwt compound granular fertilizer (12% N, 12% P_2O_5 , 15% K_2O)
combine drilled; 3 cwt sulphate of ammonia.

Cultivations, etc.:

1954. Ploughed: Dec 29, 1953. Sulphate of ammonia applied:

Mar 15, 1954. Seed sown: Mar 18. Combine harvested: Sept 22.

Variety: Koga II. Previous crop: Sugar beet.

1955. Ploughed: Oct 14, 1954. Seed (dressed with organo-mercurial compound only), combine drilled: Dec 22. Sulphate of ammonia applied: May 13, 1955. Combine harvested: Aug 25. Variety: Cappelle.

Standard errors per plot: Grain (at 85% D.M.).

1954: 2.12 cwt per acre or 6.3% (6 d.f.)

1955: 5.66 cwt per acre or 16.3% (6 d.f.)

Records were made of the following:

1954. Plant number.

1955. Number of wheat bulb fly larvae, weight per ear and no. of grains per ear.

Summary of Results

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

	Seed rate: bushels per acre			
	$\frac{1}{3}$	1	3	Mean
1954. Spring wheat (± 1.06)	29.9	33.7	37.5	33.7
1955. Winter wheat (± 2.83)	26.1	40.3	37.4	34.6

Mean dry matter % as harvested, 1954: 79.4
1955: 84.8