

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1955

[Full Table of Content](#)



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/Ca/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% P₂O₅, 15% K₂O)
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			Mean
	$\frac{1}{3}$	1	3	
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