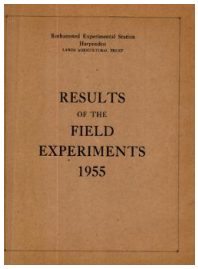
ROTHAMSTED RESEARCH

Yields of the Field Experiments 1955

Full Table of Content



55/R/CC/3 Spring Beans - Setting of Flowers (Hormone Sprays)

Rothamsted Research

Rothamsted Research (1956) *55/R/CC/3 Spring Beans - Setting of Flowers (Hormone Sprays) ;* Yields Of The Field Experiments 1955, pp 91 - 91 **- DOI: https://doi.org/10.23637/ERADOC-1-175**

55/Cc/3

SPRING BEANS

Flower drop - Hormone sprays - Fosters 1955.

Design: 4 randomized blocks of 7 plots each.

Area of each plot: 0.00550 acre. Area harvested: 0.00458 acre.

Treatments: Hormone sprays.
None (3 plots per block). (0)
2; 3 applications of 4 chlorophenoxyacetic acid. (1) & (2)
2; 3 applications of ∝ (2:4:5 trichlorophenoxy) propionic acid. (3) & (4)

The sprays, at a concentration of 5 p.p.m., were applied during the flowering period in successive doses at the following rates per acre:-

Treatments (1), (2), (3) and (4): 120 gallons and later an additional 200 gallons.
Treatments (2) and (4): an additional 320 gallons as a final application.

Basal dressing: 9 cwt compound granular fertilizer (10% P_2O_5, 20% K_2O) per acre.

Cultivations, etc.: Ploughed: Oct 19, 1954. Basal fertilizer applied, seed sown at 190 lb per acre: Mar 30, 1955. Sprayed with hormone sprays: June 24, July 1, July 9. Combine harvested: Aug 27. Variety: Gartons' Tick. Previous crop: Barley.

Standard error per plot:
Grain: 2.41 cwt per acre or 20.4% (20 d.f.)

N.B. Counts of numbers of pods were made. Damage by Aphids was severe and irregular.

Summary of Results

Grain: cwt per acre

	Treatments					
	0	1	2	3	4	Mean
Mean (±1.21)	12.0(1)	13.9	12.0	9.7	11.0	11.8
Increase (±1.39)		+1.9	0.0	-2.3	-1.0	

(1) ±0.70.
Mean dry matter % as harvested: 84.8

Treatments: 0 No spray
1 2 spray applications } 4 chlorophenoxyacetic acid.
2 3 spray applications }
3 2 spray applications } ∝ (2:4:5 trichlorophenoxy)
4 3 spray applications } propionic acid.

https://doi.org/10.23637/ERADOC-1-175