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Yields of the Field Experiments 1956

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56/R/CD/3 Spring Beans - Flower Drop (Hormone Sprays)

Rothamsted Research

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56/Ca/3

SPRING BEANS

Flower drop - hormone sprays - Great Field I 1956.

Design: 4 randomized blocks of 6 plots each.

Area of each plot: 0.0064 acres. Area harvested: 0.0046 acres.

Treatments: Hormone sprays

- None (2 plots per block) (0)
- 2; 4 applications of 4-chlorophenoxyacetic acid (1) & (2)
- 2; 4 applications of α (2, 4, 5 trichlorophenoxy) propionic acid (3) & (4)

The sprays were applied at a concentration of 5 p.p.m.

Basal dressing: 6 cwt compound granular fertilizer (10% P_2O_5 , 20% K_2O) per acre.

Cultivations, etc.: Ploughed: Nov 10 - 15, 1955. Basal fertilizer applied: Mar 13, 1956. Seed drilled at 200 lb per acre: Mar 14. All plots (except control) sprayed with hormone sprays at approx. 150 gallons followed by 250 gallons per acre: June 18 and June 25. Appropriate plots sprayed again with hormone sprays at 350 gallons per acre: July 4 and July 10. Combine harvested: Oct 12. Variety: Spring Tick. Previous crop: Barley.

Standard error per plot:

Grain (at 85% dry matter): 1.61 cwt per acre or 6.6% (16 d.f.)

Note: Counts of numbers of pods were made.

Summary of Results

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

		Treatment					Mean
		0	1	2	3	4	
Mean	(± 0.80)	24.4 ⁽¹⁾	25.7	27.0	23.0	22.7	24.5
Increase	(± 0.99)		+1.3	+2.6	-1.4	-1.7	

(1) ± 0.57

Mean dry matter % as harvested: 72.7