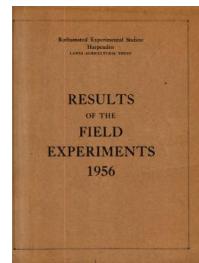


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Yields of the Field Experiments 1956

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56/R/CD/4 Beans and 56/W/CD/4 - Autumn and Spring Sowing , Spraying, P and K

Rothamsted Research

Rothamsted Research (1957) *56/R/CD/4 Beans and 56/W/CD/4 - Autumn and Spring Sowing , Spraying, P and K ; Yields Of The Field Experiments 1956*, pp 87 - 89 - DOI:
<https://doi.org/10.23637/ERADOC-1-176>

56/Cd/4.1

BEANS

Time of sowing, spraying, P and K - Rothamsted (R) Great Harpenden II and Woburn (W) Broadmead I 1956.

Design: 3 blocks of 4 whole plots each split into 3, with spraying on pairs of whole-plots and PK partially confounded.

Area of each sub-plot: Rothamsted, 0.0283 acres; Woburn, 0.0337 acres.
Area harvested: Rothamsted, 0.0088 acres; Woburn, 0.0105 acres.

Treatments. All combinations of:

Time of sowing: Autumn; spring.

Spray: None; "Metasystox" at 2 pints in 80 gallons per acre.

Phosphate: None; 0.5; 1.0 cwt P_2O_5 per acre as superphosphate.

Potash: None; 1.0; 2.0 cwt K_2O per acre as muriate of potash.

Basal dressing: None.

Note. At Woburn the autumn sown beans failed because of bird damage.

Cultivations, etc.:

Rothamsted. Ploughed: Oct 3, 1955. Fertilizers applied for autumn beans, seed drilled at 300 lb per acre: Oct 18. Fertilizers applied for spring beans: Mar 7, 1956. Spring beans sown at 200 lb per acre: Mar 10. Appropriate plots sprayed: June 23. Combine harvested: Oct 4. Previous crop: Barley.

Woburn. Ploughed: Oct 21, 1955. Fertilizers applied for winter beans: Nov 1. Ground chalk at 18 cwt per acre applied: Nov 14. Seed drilled at 275 lb per acre: Nov 15. Fertilizers applied for spring beans: Mar 20, 1956. Seed drilled at 200 lb per acre: Mar 22. Appropriate plots sprayed: June 26. Combine harvested: Oct 23. Variety: Winter-S.Q.Giant, Spring-Albyn.

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

Great Harpenden II (R), whole plot: 3.06 cwt per acre or 17.3%
(4 d.f.)

sub plot: 2.59 cwt per acre or 14.6%
(12 d.f.)

Broadmead I (W),
Spring beans sub plot: 2.28 cwt per acre or 13.7%
(4 d.f.)

56/Cd/4.2

Summary of Results

Great Harpenden II (Rothamsted)

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

Sown Autumn Spring	Diff- erence	P _{2O₅} : cwt per acre None 0.5 1.0	K _{2O} : cwt per acre None 1.0 2.0	Mean
Spray		(± 1.06)*	(± 1.06)*	
None	17.9	16.1	17.5	17.0
Metasystox	19.0	17.8	17.9	18.4
Difference	+1.1	+1.7	+0.6	+1.4
		(± 3.53)	(± 1.49) **	
Sown Autumn Spring		(1) & (2)	(1) & (2)	
		17.8 17.6	19.6 16.8	18.4
		17.8 17.6	17.8 16.5	17.0
Mean	17.7	18.2	17.2	17.7
Difference (± 2.15)		(± 0.75)	(± 0.75)	
	-0.2	-2.8	-1.3	-1.4
			+1.3	-3.1
			-2.6	-1.77

Mean dry matter % as harvested: 72.2

*For use in horizontal comparisons only

**For use only in testing the difference of two differences

- (1) ±1.52 for use in diagonal comparisons only
- (2) ±1.06 for use in horizontal comparisons only

Broadmead I (Woburn)

56/Cd/4.3

Spring beans

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

Spray	P ₂ O ₅ : cwt per acre			K ₂ O: cwt per acre			Mean
	None	0.5	1.0	None	1.0	2.0	
	(± 1.32)*			(± 1.32)*			
None	15.4	15.7	15.0	10.9	15.4	19.9	15.4
Metasystox	20.6	17.5	15.6	14.0	17.0	22.7	17.9
Mean	(±0.93)	18.0	16.6	15.3	12.5	16.2	16.7
Difference (±1.86)**	5.2	1.8	0.6	3.1	1.6	2.8	2.5

* For use in horizontal comparisons only

** For use only in testing the difference of 2 differences

Mean dry matter % as harvested: 66.5