

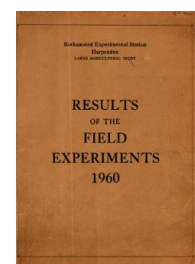
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Yields of the Field Experiments 1960

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60/R/CE/3 Beans - Time of Sowing, Spraying P and K

Rothamsted Research

Rothamsted Research (1961) *60/R/CE/3 Beans - Time of Sowing, Spraying P and K* ; Yields Of The Field Experiments 1960, pp 117 - 118 - DOI: <https://doi.org/10.23637/ERADOC-1-180>

60/Ce/3.1

BEANS

Time of sowing, spraying and K - Deacons 1960.

Design: 4 randomised blocks of 8 plots each.

Area of each plot: 0.0404 acres. Area harvested: 0.0126 acres.

Treatments. All combinations of:-

Time of sowing: Autumn; spring.

Spray: None; demeton-methyl of 12 fluid oz (50% active ingredients) in 40 gallons per acre.

Potash: None; 0.74 cwt K_2O per acre placement drilled.

*Note: To avoid serious mechanical damage to the tall grown winter beans by tractor spraying in a year of slight aphid infestation, these were not sprayed.

Basal dressing: 0.37 cwt P_2O_5 per acre placement drilled either with K in the compound fertiliser (10% P_2O_5 , 20% K_2O) or as granular superphosphate.

Cultivations, etc.: Ploughed: Oct 13 - 20, 1959. Winter beans placement drilled at 275 lb per acre: Oct 29. Spring beans placement drilled at 250* lb per acre: Mar 19, 1960. Appropriate spring sown plots sprayed with demeton-methyl: June 13. Combine harvested: Winter beans - Aug 20; spring beans - Sept 8. Variety: Winter beans - S.Q.; spring beans - Albyn Tick. Previous crop: Spring wheat and barley.

Standard error per plot.

Grain (at 85% dry matter): 2.31 cwt per acre or 8.2% (23 d.f.)

*Increased from the normal 200 to allow for poor germination.

60/0e/3.2

Summary of Results

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

Time of sowing Spray	Autumn None	Spring None	Spring Demeton methyl	Mean
<u>K₂O cwt per acre</u>	(± 0.82)	(± 1.16)		
None	34.1	19.6	23.9	27.9
0.74	34.6	21.5	23.5	28.5
Mean (± 0.82)	34.3 ⁽¹⁾	20.5	23.7	28.2
Difference (± 1.64)	+0.5 ⁽²⁾	+1.9	-0.4	+0.6 (± 0.82)

(1) ± 0.58

(2) ± 1.16

Mean dry matter % as harvested: Autumn sown 75.6
Spring sown 72.2