

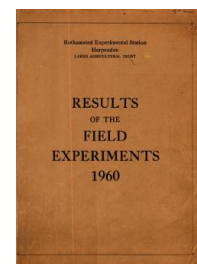
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Yields of the Field Experiments 1960

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60/R/CE/2 and 60/W/CE/2 Spring Beans - Control of Weeds (Spraying)

Rothamsted Research

Rothamsted Research (1961) *60/R/CE/2 and 60/W/CE/2 Spring Beans - Control of Weeds (Spraying)* ;
Yields Of The Field Experiments 1960, pp 115 - 116 - DOI:

<https://doi.org/10.23637/ERADOC-1-180>

60/Ce/2.1

SPRING BEANS

Control of weeds by triazine sprays - Rothamsted (R) Deacons Field and Woburn (W) Warren Field 1960.

Design: 4 randomised blocks of 6 plots each.

Area of each plot (acres):

Deacons Field (R): 0.0333. Area harvested: 0.0139.
Warren Field (W): 0.0303. Area harvested: 0.0126.

Treatments:

Simazine (2-chloro-4,6-bis-ethylamino-s-triazine - 50% active material):

Without inter row cultivations:

None; (S₀)
1 lb per acre; (S₁)
2 lb per acre; (S₂)
3 lb per acre; (S₃)

With normal inter row cultivations:

None; (MS₀)
2 lb per acre; (MS₂)

Basal dressing per acre: Deacons (R): 2 $\frac{3}{4}$ cwt compound fertiliser (12% P₂O₅, 24% K₂O) placement drilled. Warren Field (W): 3 $\frac{1}{2}$ cwt compound fertiliser (14% P₂O₅, 28% K₂O) placement drilled.

Cultivations, etc.:-

Deacons Field (R): Ploughed: Oct 13 - 26, 1959 and Mar 1 - 7, 1960. Seed placement drilled at 200 lb per acre, with basal fertiliser: Mar 19. Sprays applied to appropriate plots: Mar 25. Sprayed with demeton-methyl at 12 fluid oz in 40 gallons per acre: June 13. Combine harvested: Sept 8. Variety: Gartons Spring Tick. Previous crop: Barley.

Warren Field (W): Ploughed: Oct 22 - 26, 1959. Ground chalk applied at 18 - 20 cwt per acre: Mar 8 - 12, 1960. Seed placement drilled at 200 lb per acre, with basal fertiliser: Mar 24. Sprays applied to appropriate plots: Mar 25. Sprayed with demeton-methyl at 12 fluid oz in 40 gallons per acre: June 15. Combine harvested: Sept 21. Variety: Gartons Spring Tick. Previous crop: Spring wheat.

Note: Weed counts were made in July.

Standard errors per plot, Grain (at 85% dry matter):

Deacons Field (R): 4.09 cwt per acre or 16.5% (15 d.f.)
Warren Field (W): 1.83 cwt per acre or 13.4% (15 d.f.)

60/Oe/2.2

Summary of Results

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

Treatment						Mean
S ₀	S ₁	S ₂	S ₃	MS ₀	MS ₂	
Deacons Field (R)						
25.0	23.6	26.2	26.6	23.8	23.3	24.7
(±2.04)						
Warren Field (W)						
11.3	13.0	12.1	12.6	17.0	16.0	13.6
(±0.91)						

Mean dry matter % as harvested:

Deacons Field (R): 73.9

Warren Field (W): 73.6

Treatments

Simazine without inter row cultivations

S₀ = None

S₁ = 1 lb per acre

S₂ = 2 lb per acre

S₃ = 3 lb per acre

Simazine with normal inter row cultivations

MS₀ = None

MS₂ = 2 lb per acre

Note. Deacons (R): It is suspected that certain plots in each block were affected by gross soil differences and this matter is under investigation.