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Yields of the Field Experiments 1961

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61/R/DD/2 Spring Beans - Control of Weeds

Rothamsted Research

Rothamsted Research (1962) *61/R/DD/2 Spring Beans - Control of Weeds* ; Yields Of The Field Experiments 1961, pp 122 - 123 - DOI: <https://doi.org/10.23637/ERADOC-1-182>

61/Da/2.1

SPRING BEANS

Control of weeds by residual herbicides - Great Field I 1961.

Design: 3 randomised blocks of 23 plots each.

Area of each plot: 0.0176 acres. Area harvested: 0.0110 acres.

Treatments:

Beans drilled at normal (21") spacing, no inter row cultivations (O)

Beans drilled at narrow (10½") spacing, no inter row cultivations (A)

Beans drilled at normal (21") spacing, inter cultivated (B)

Treatments O, A, B taken factorially with:

No spray:

Simazine: ½; 1 lb active material per acre (S₁S₂) as pre-emergence spray

2,6-DBN: 1; 3 lb active material per acre (D₁D₂) as pre-emergence spray

Treatments O and A taken factorially with

2,6-DBN: ½; 3 lb active material per acre as post-emergence spray.

Basal dressing: 3½ cwt per acre compound fertiliser (14% P₂O₅, 28% K₂O) placement drilled.

Cultivations, etc.: Ground chalk applied at 54 cwt per acre: Oct 4, 1960. Ploughed: Oct 14. Seedbed spray applied and worked in: Mar 4, 1961. All plots rotary cultivated except those already sprayed, seed placement drilled at 200 lb per acre: Mar 17. Pre-emergence spray applied: Mar 23. Post-emergence spray applied: May 1. Sprayed with demeton-methyl at 12 fluid oz in 60 gallons per acre: June 10. Combine harvested: Sept 4. Variety: Garton's Spring Tick. Previous crop: Winter wheat.

Note (1). The plots on which 2,6-DBN was worked into the seedbed failed reducing the experiments to 3 blocks of 19 plots each.

Note (2). Weed counts were taken on all wide row plots.

Standard error per plot.

Grain (at 85% dry matter): 2.34 cwt per acre or 9.7% (36 d.f.)

61/Da/2.2

Summary of Results

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

	No inter row cultivation		Inter cultivated
	21" row	10 $\frac{1}{2}$ " row	21" row
		(± 1.35)	
No spray	22.5	21.0	26.8
Pre-emergence S ₁	23.1	21.8	27.0
S ₂	27.2	24.5	26.5
D ₁	25.9	23.0	25.6
D ₂	27.8	23.8	28.3
Post-emergence D ₁	21.5	20.6	
D ₂	20.0	21.2	
General mean		24.1	

Mean dry matter % as harvested: 79.8