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Yields of the Field Experiments 1959

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59/R/CD/1 Cereals and Beans - Rotations

Rothamsted Research

Rothamsted Research (1960) *59/R/CD/1 Cereals and Beans - Rotations* ; Yields Of The Field Experiments 1959, pp 83 - 84 - DOI: <https://doi.org/10.23637/ERADOC-1-179>

59/Cd/1.2

Note. Estimates of plant height, % area lodged, incidence of Eyespot (*Cercospora herpotrichoides*) and Take-all (*Ophiobolus graminis*), and counts of plant shoot and ear number were made.

For details of the previous year's results etc. see 'Results of the Field Experiments' 57/Cd/1 and 58/Cd/1.

Summary of Results

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

Series starting in 1957

Crop in 1957	WW	SW	O	WW	B	WW
1958	WW	WW	WW	O	WW	O
1959	SW	SW	SW	SW	B	Be
Mean dry matter	32.0	32.4	29.2	32.0	33.3	*
% as harvested			85.0		85.1	

Series starting in 1958

Crop in 1958	WW	SW	B	O	WW
1959	WW	WW	WW	WW	O
Mean dry matter	37.4	37.5	31.9	41.9	34.7
% as harvested			76.4		83.7

Series starting in 1959

Crop in 1959	WW	SW	B	O
Mean dry matter	41.3	36.3	42.3	37.9
% as harvested	74.9	85.6	86.1	83.3

*Yields not recorded.

SPRING BEANS

Effect of seed rates and spraying on aphids (Aphis fabae) -
Great Knott I 1959.

Design: 4 randomized blocks of 7 plots each, blocks and plots being
split into 2 strips for the application of spray.

Area of each sub plot: 0.0135 acres.

Treatments. All combinations of:-

Seed rate, lb per acre: 50; 100; 200; *300; 400; 600; all at
22 inch row spacing and 600 at 11 inch.

Spray: None; demeton-methyl at 12 fluid oz (50% active ingredients)
in 60 gallons per acre.

*Note. The basal dressing was applied to this treatment at double
rate.

Basal dressing: 5 cwt compound fertilizer (10% P_2O_5 , 20% K_2O) per
acre placement drilled with the seed.

Cultivations, etc.: Ploughed: Sept 22 and Oct 28, 1958. Seed
drilled: Mar 18, 1959. Appropriate sub-plots sprayed with
demeton-methyl: June 2. Combine harvested: Aug 24.
Variety: Garton's Spring Tic. Previous crop: Wheat.

Note: On 15 of the 28 unsprayed plots the crop was so poor that it
had to be harvested by hand. The standard error was estimated
from the sprayed plots only.

Standard error per plot.

Grain (at 85% dry matter): 1.34 cwt per acre or 6.6% (18 d.f.)

Note: Periodic counts of plant stem and aphid numbers were made.