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Yields of the Field Experiments 1978



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78/R/BE/6 Comparison of Sprayers - Beans

Rothamsted Research

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78/R/BE/6

SPRING BEANS

COMPARISON OF SPRAYERS

Object: To study the performance of an electrostatic spraying system on distribution of spray material and on yield of beans - Gt. Harpenden II.

Sponsor: A.J. Arnold.

Design: 3 randomised blocks of 6 plots.

Whole plot dimensions: 2.67 x 9.14.

Treatments:

SPRAYER	Sprayer used to apply permethrin:
NONE	None (duplicated)
ECC	Electrostatic sprayer, spraying charged particles with controlled current
ECN	Electrostatic sprayer, spraying charged particles with normal current
E U	Electrostatic sprayer, spraying uncharged particles
F U	Standard farm sprayer, spraying uncharged particles

NOTES: (1) Electrostatic sprayer applied permethrin at 84 g in 34 1.

(2) Farm sprayer applied permethrin at 84 g in 340 1.

(3) Permethrin was applied as a water-based spray. A planned comparison of oil and water-based sprays was not achieved.

(4) Sprays were applied on 11 July, 1978.

Basal applications: Manures: Chalk at 7.5 t.

Seed: Minden, sown at 200 kg.

Cultivations, etc.:- Chalk applied: 12 Oct, 1977. Ploughed: 11 Nov. Springtine cultivated: 9 Mar, 1978. Heavy spring-tine cultivated, seed sown: 11 Mar. Tractor hoed: 19 May and 8 June. Combine harvested: 25 Sept. Previous crops: Barley 1976 and 1977. 78/R/BE/6

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

SPRAYER NONE E C C E C N E U F U MEAN 5.69 5.72 5.97 5.74 6.04 5.81

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE SPRAYER

SED

0.541 MIN REP 0.468 MAX-MIN

SPRAYER

MAX-MIN NONE V ANY OF REMAINDER

MIN REP ANY OF REMAINDER

**** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION ****

STRATUM DF SE CV%

BLOCK.WP 11 0.662 11.4

GRAIN MEAN DM% 83.9

PLOT AREA HARVESTED 0.00244