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82/R/BE/8 Varieties and Blrv - Spring Beans

Rothamsted Research

Rothamsted Research (1983) *82/R/BE/8 Varieties and Blrv - Spring Beans* ; Yields Of The Field Experiments 1982, pp 292 - 293 - DOI: <https://doi.org/10.23637/ERADOC-1-33>

82/R/BE/8

SPRING BEANS

VARIETIES AND BLRV

Object: To study the effects of full pest and pathogen control on four varieties differing in susceptibility to bean leaf roll virus (BLRV) - Claycroft.

Sponsor: A.J. Cockbain.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 4.27 x 9.14.

Treatments: All combinations of:-

- | | |
|-------------|---|
| 1. VARIETY | Varieties: |
| BEAD | Maris Bead (field bean, resistant to BLRV) |
| MINDEN | Minden (field bean, sensitive to BLRV) |
| T WHITE | Threefold White (broad bean, sensitive to BLRV) |
| WEIRBOON | Weirboon (broad bean, tolerant to BLRV) |
| 2. PATHCONT | Pest and pathogen control: |
| STANDARD | None |
| FULL | Phorate, pirimicarb and benomyl |

NOTE: Rates of materials used in PATHCONT FULL were
Phorate at 4.5 kg and rotary harrowed in to the seedbed on
25 Mar, 1982
Pirimicarb at 0.14 kg in 340 l on 15 June
Benomyl at 0.5 kg in 340 l on 2 July

Basal applications: Manures: Chalk at 5.0 t. Weedkillers: Glyphosate at 1.4 kg in 250 l. Trietazine at 1.0 kg with simazine at 0.14 kg in 250 l.

Cultivations, etc.: - Glyphosate applied: 4 Nov, 1981. Chalk applied: 10 Nov. Ploughed: 27 Nov. Spring-tine cultivated: 24 Mar, 1982. Seed sown: 26 Mar. Trietazine with simazine applied: 1 Apr. Combine harvested: 2 Sept. Previous crops: W. wheat 1980 and 1981.

NOTE: Plant counts were made at emergence. Pest and disease incidence and growth parameters were assessed throughout the season.

82/R/BE/8

GRAIN TONNES/HECTARE

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

VARIETY	BEAD	MINDEN	T WHITE	WEIRBOON	MEAN
PATHCONT					
STANDARD	4.04	3.89	3.77	4.31	4.00
FULL	4.49	4.52	4.27	4.22	4.38
MEAN	4.26	4.20	4.02	4.27	4.19

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

TABLE	VARIETY	PATHCONT	VARIETY PATHCONT
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SED	0.187	0.132	0.264

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

STRATUM	DF	SE	CV%
BLOCK.WP	14	0.323	7.7

GRAIN MEAN DM% 78.8

PLOT AREA HARVESTED 0.00293