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

Rothamsted Research

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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 benomy1

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
 Benomy1 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 |
|-------|---------|----------|---------------------|
| ----- | | | |
| 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