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82/R/BE/20 Pirimiphos-methyl and Stem Nematode - Spring Beans

Rothamsted Research

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82/R/BE/20

SPRING BEANS

PIRIMIPHOS-METHYL AND STEM NEMATODE

Object: To study the effects of three rates of pirimiphos-methyl applied as a seed dressing on the occurrence of stem nematode, Sitona weevils and on the yield of s. beans - Highfield 0 and E VI N.

Sponsors: A.G. Whitehead, J. McEwen, D.P. Yeoman.

Design: 4 randomised blocks of 4 plots.

Whole plot dimensions: 2.03 x 2.13.

Treatments:

| PIRIM SD | Pirimiphos-methyl seed dressing (g per tonne of seed): |
|----------|--|
| 0 | |
| 2 | |
| 4 | |
| 20 | |

NOTE: Seed was sown by hand in rows 51 cm apart, seed spaced 5 cm apart in the row.

Basal applications: None.

Seed: Minden.

Cultivations, etc.: - Ploughed: 17 Nov, 1981. Spring-tine cultivated, power harrowed, sown: 26 Mar, 1982. Hand hoed: 12 May, 1 June. Harvested by hand: 7 Sept. Previous crops: S. barley 1980, fallow 1981.

NOTE: Plant counts were made after establishment. Stem nematode symptoms were assessed during the season. Weevil damage was assessed in May.

82/R/BE/20

GRAIN TONNES/HECTARE

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

| PIRIM SD | 0 | 2 | 4 | 20 | MEAN |
|----------|------|------|------|------|------|
| | 5.83 | 6.06 | 4.98 | 5.02 | 5.47 |

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

| TABLE | PIRIM SD |
|-------|----------|
| ----- | ----- |
| SED | 0.560 |

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

| STRATUM | DF | SE | CV% |
|----------|----|-------|------|
| BLOCK.WP | 9 | 0.792 | 14.5 |

GRAIN MEAN DM% 83.3

PLOT AREA HARVESTED 0.00015