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85/R/PE/1 Control of Stem Nematode - Peas

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85/R/PE/1

PEAS

CONTROL OF STEM NEMATODE

Object: To study the effects of a range of rates of aldicarb and carbofuran on the incidence of stem nematode (*Ditylenchus dipsaci*) and on the yield of peas grown for grain - Highfield 0 and E III.

Sponsor: A.G. Whitehead.

Design: 3 randomised blocks of 10 plots.

Whole plot dimensions: 2.03 x 4.57.

Treatments: All combinations of:-

1. NEMACIDE Nematicides, applied to seed furrows at sowing:

ALDICARB Aldicarb
CARBOFUR Carbofuran

2. NEM RATE Rates of nematicides (kg):

0.5
1.0
2.0
4.0

plus one extra treatment (duplicated):

EXTRA

NONE No nematicides

Basal applications: Manures: (0:24:24) at 450 kg. Weedkillers:
Prometryn at 1.7 kg in 280 l.

Seed: Progreta, sown at 260 kg.

Cultivations, etc.: - Ploughed: 4 Jan, 1985. PK applied: 14 Mar.
Spring-tine cultivated twice: 18 Mar. Seed sown and treatments applied:
19 Mar. Weedkiller applied: 20 Mar. Harvested by hand: 19 Aug.
Previous crops: W. beans 1983 and 1984.

NOTES: (1) One plot received the wrong treatments. This plot should have had treatment CARBOFUR at rate 4.0. An estimated value was used in the analysis.
(2) Numbers of stem nematode in the soil were estimated after harvest.

85/R/PE/1

GRAIN TONNES/HECTARE

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

| | 0.5 | 1.0 | 2.0 | 4.0 | MEAN |
|------------|------|------|------|------|------|
| NEM RATE | | | | | |
| NEMACIDE | | | | | |
| ALDICARB | 5.85 | 5.48 | 5.47 | 6.45 | 5.81 |
| CARBOFUR | 5.22 | 5.99 | 5.68 | 6.18 | 5.77 |
| MEAN | 5.53 | 5.73 | 5.58 | 6.32 | 5.79 |
| NONE | 4.61 | | | | |
| GRAND MEAN | 5.55 | | | | |

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

| TABLE | NEMACIDE | NEM RATE | NEMACIDE NEM RATE |
|-------|----------|----------|----------------------|
| SED | 0.308 | 0.436 | 0.617 |

SED FOR COMPARING NONE WITH ANY ITEM IN
NEMACIDE.NEM RATE TABLE IS 0.534

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

| STRATUM | DF | SE | CV% |
|----------|----|-------|------|
| BLOCK.WP | 18 | 0.755 | 13.6 |

GRAIN MEAN DM% 56.8

PLOT AREA HARVESTED 0.00058