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83/R/PE/1 Control of Pests and Diseases - Peas

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83/R/PE/1

PEAS

CONTROL OF PESTS AND DISEASES

Object: To study the effects of aldicarb, tolclofos methyl and permethrin on soil-inhabiting pests and pathogens and on the yield of peas - Long Hoos III 4.

Sponsors: J. McEwen, R. Bardner, A.J. Cockbain, C.D. Green, D.H. Lapwood, R.M. Webb, A.G. Whitehead, D.P. Yeoman.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 4.06 x 4.57.

Treatments: All combinations of:-

- | | |
|---------------|--|
| 1. NEMACIDE | Nematicide: |
| NONE | None |
| ALDICARB | Aldicarb at 5 kg combine drilled |
| 2. FUNGCIDE | Fungicide: |
| NONE | None |
| TOL METH | Tolclofos methyl at 50 kg worked into the seedbed |
| 3. INSECTCIDE | Insecticide: |
| NONE | None |
| PERMETH | Permethrin at 0.15 kg in 220 l on 11 May, 1983 and 13 June |

Basal applications: Manures: Chalk at 2.9 t. Muriate of potash at 520 kg. Weedkillers: Trietazine at 1.1 kg with simazine at 0.16 kg in 340 l.

Seed: Progretha, dressed metalaxyl, sown at 290 kg.

Cultivations, etc.: - Muriate of potash applied: 16 Sept, 1982. Chalk applied: 30 Sept. Ploughed: 12 Jan, 1983. Spring-tine cultivated twice, seed sown: 16 Mar. Weedkillers applied: 18 Mar. Combine harvested: 2 Aug. Previous crops: Potatoes 1981, s. barley 1982.

NOTE: Plants were counted after establishment. Weevils, migratory nematodes, root fungi and viruses were counted during the season. N content of grain was measured.

83/R/PE/1

GRAIN TONNES/HECTARE

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

FUNGCIDE	NONE	TOL METH	MEAN
NEMACIDE			
NONE	4.78	4.79	4.79
ALDICARB	4.58	5.29	4.94
MEAN	4.68	5.04	4.86

INSCTCDE	NONE	PERMETH	MEAN
NEMACIDE			
NONE	4.90	4.68	4.79
ALDICARB	4.65	5.23	4.94
MEAN	4.77	4.95	4.86

INSCTCDE	NONE	PERMETH	MEAN
FUNGCIDE			
NONE	4.55	4.82	4.68
TOL METH	5.00	5.09	5.04
MEAN	4.77	4.95	4.86

FUNGCIDE	NONE	TOL METH		
INSCTCDE	NONE	PERMETH	NONE	PERMETH
NEMACIDE				
NONE	4.97	4.60	4.82	4.76
ALDICARB	4.12	5.05	5.17	5.41

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

TABLE	NEMACIDE	FUNGCIDE	INSCTCDE	NEMACIDE FUNGCIDE
SED	0.189	0.189	0.189	0.267

TABLE	NEMACIDE INSCTCDE	FUNGCIDE INSCTCDE	NEMACIDE FUNGCIDE INSCTCDE
SED	0.267	0.267	0.377

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

STRATUM	DF	SE	CV%
BLOCK.WP	14	0.462	9.5

GRAIN MEAN DM% 82.3

PLOT AREA HARVESTED 0.00058