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Yields of the Field Experiments 1984

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

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84/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 V 7.

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: 3.05 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. INSECTICIDE | Insecticide: |
| NONE | None |
| PERMETH | Permethrin at 0.15 kg in 220 l on 4 May, 1984 and 31 May |

Basal applications: Manures: Chalk at 2.9 t. Muriate of potash at 520 kg.
Weedkillers: Trietazine at 0.95 kg with simazine at 0.14 kg in 220 l.
Insecticide: Pirimicarb at 0.14 kg in 220 l.

Seed: Progeta, dressed metalaxyl and thiram, sown at 290 kg.

Cultivations, etc.:- Muriate of potash applied: 17 Aug, 1983. Chalk applied: 25 Aug. Ploughed: 22 Nov. Spring-tine cultivated twice, seed sown: 9 Mar, 1984. Weedkillers applied: 13 Mar. Insecticide applied: 6 June. Combine harvested: 10 Aug. Previous crops: Potatoes 1982, s. barley 1983.

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

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GRAIN TONNES/HECTARE

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

FUNGCIDE NEMACIDE	NONE	TOL METH	MEAN
NONE	5.77	5.85	5.81
ALDICARB	6.25	6.19	6.22
MEAN	6.01	6.02	6.01

INSCTCDE NEMACIDE	NONE	PERMETH	MEAN
NONE	5.60	6.02	5.81
ALDICARB	6.17	6.27	6.22
MEAN	5.88	6.14	6.01

INSCTCDE FUNGCIDE	NONE	PERMETH	MEAN
NONE	5.94	6.08	6.01
TOL METH	5.83	6.21	6.02
MEAN	5.88	6.14	6.01

FUNGCIDE INSCTCDE NEMACIDE	NONE	PERMETH	TOL METH NONE	PERMETH
NONE	5.54	5.99	5.65	6.05
ALDICARB	6.34	6.16	6.00	6.38

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

TABLE	NEMACIDE	FUNGCIDE	INSCTCDE	NEMACIDE FUNGCIDE
SED	0.156	0.156	0.156	0.220

TABLE	NEMACIDE INSCTCDE	FUNGCIDE INSCTCDE	NEMACIDE FUNGCIDE INSCTCDE
SED	0.220	0.220	0.312

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

STRATUM	DF	SE	CV%
BLOCK.WP	14	0.382	6.3
GRAIN MEAN DM%	82.9		
PLOT AREA HARVESTED	0.00058		