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91/W/CS/371 Chemical Control of *Globodera Pallida* - Potatoes

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91/W/CS/371

CHEMICAL CONTROL OF GLOBODERA PALLIDA

Object: To determine the residual effects of nematicides applied to control *G. pallida* in 1990 - Woburn, Lansome/Mill Dam Close III.

Sponsors: A.G. Whitehead, A.J.F. Nichols.

Design: 3 randomised blocks of 2 plots split into 6 sub plots.

The second year, potatoes.

For previous year see 90/W/P/2.

Whole plot dimensions: 6.0 x 13.3.

Treatments: All combinations of:-

1. **IRRIG RS** Residues of irrigation applied in 1990:

NONE
252 MM

Sub plots

2. **CHEM RES** Residues of chemicals applied in 1990:

NONE	None
OXAMYL	Oxamyl at 5.6 kg
OX CARBO	Oxamyl at 5.6 kg + carbofuran at 5.6 kg
OX ETHOP	Oxamyl at 5.6 kg + ethoprophos at 5.6 kg
OX FORMA	Oxamyl at 5.6 kg + formalin at 1170 kg
OX SODME	Oxamyl at 5.6 kg + sodium metavanadate at 36 kg

Basal applications: Manures: (13:13:20) at 1.6 t. Weedkillers: Linuron at 1.5 kg with paraquat at 0.4 kg ion in 210 l. Fungicides: Maneb at 1.2 kg and zinc oxide at 28 g with a wetting agent, 'Bond' at 200 ml, in 200 l, and on a second occasion at 0.96 kg, 22 g and 200 ml respectively in 300 l. Mancozeb at 0.82 kg with insecticide: pirimicarb at 0.14 kg and wetting agent, 'Bond' at 200 ml, in 300 l on two occasions. Desiccant: Glufosinate-ammonium at 0.45 kg in 200 l.

Variety: Sante.

Cultivations, etc.:- Ploughed: 12 Mar, 1991. N, P and K applied, spiked rotary cultivated, seed sown: 9 Apr. Rotary ridged, weedkillers applied: 26 Apr. Hand weeded 12, 13 June and 12 to 18 July. Rotary ridged: 13 June. Maneb, zinc oxide and wetting agent applied: 4 and 31 July. Mancozeb, pirimicarb and wetting agent applied: 20 July and 12 Aug. Desiccant applied: 27 Aug. Potatoes lifted: 5 Sept.

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TOTAL TUBERS TONNES/HECTARE

***** Tables of means *****

IRRIG RS CHEM RES	NONE	252 MM	Mean
NONE	25.8	9.4	17.6
OXAMYL	26.8	20.7	23.7
OX CARBO	28.2	24.1	26.1
OX ETHOP	29.0	25.5	27.3
OX FORMA	32.3	22.9	27.6
OX SODME	31.0	23.2	27.1
Mean	28.9	21.0	24.9

*** Standard errors of differences of means ***

CHEM RES	IRRIG RS* CHEM RES
2.36	3.34

* within the same level of IRRIG RS only

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP.SP	20	4.09	16.4

PERCENTAGE WARE 3.81 CM (1.5 INCH) RIDDLE

***** Tables of means *****

IRRIG RS CHEM RES	NONE	252 MM	Mean
NONE	66.6	39.2	52.9
OXAMYL	77.4	71.4	74.4
OX CARBO	77.3	73.4	75.3
OX ETHOP	79.1	73.4	76.3
OX FORMA	80.7	63.1	71.9
OX SODME	75.0	72.5	73.8
Mean	76.0	65.5	70.8

SUB PLOT AREA HARVESTED 0.00057