Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1991



Full Table of Content

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

Rothamsted Research

Rothamsted Research (1992) 91/W/CS/371 Chemical Control of Globodera Pallida - Potatoes; Yields Of The Field Experiments 1991, pp 110 - 111 - DOI: https://doi.org/10.23637/ERADOC-1-46

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:-

IRRIG RS Residues of irrigation applied in 1990:

NONE 252 MM

Sub plots

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	Oxamvl 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.

91/W/CS/371

TOTAL TUBERS TONNES/HECTARE

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

IRRIG RS	NONE	252 MM	Mean
CHEM RES			
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	NONE	252 MM	Mean
CHEM RES			
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