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82/W/P/1 Varieties and Oxamyl - Potatoes

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82/W/P/1

POTATOES

VARIETIES AND OXAMYL

Object: To study the effects of oxamyl on a range of varieties grown in land lightly infested with potato cyst nematode (*Globodera rostochiensis*) - Woburn Horsepool.

Sponsors: A.G. Whitehead, K. Evans.

Design: 3 randomised blocks of 20 plots.

Whole plot dimensions: 2.84 x 6.10.

Treatments: All combinations of:-

- | | |
|------------|----------------|
| 1. VARIETY | Varieties: |
| ANCHOR | Maris Anchor |
| BANNER | Arran Banner |
| CARA | Cara |
| CROFT | Croft |
| CROWN | Pentland Crown |
| DELL | Pentland Dell |
| DESIREE | Desiree |
| PEER | Maris Peer |
| PIPER | Maris Piper |
| RECORD | Record |
| 2. OXAMYL | Oxamyl (kg): |
| | 0.0 |
| | 5.6 |

Basal applications: Manures: (10:10:15+4.5 Mg) at 3360 kg. Weedkillers: Paraquat at 0.56 kg ion in 280 l. Linuron at 1.1 kg with paraquat at 0.28 kg ion in 280 l. Fungicides: Mancozeb at 1.4 kg in 280 l applied four times, with the insecticide on the first two occasions. Ofurace at 0.12 kg with maneb at 1.3 kg in 280 l applied twice, with the insecticide on the first occasion. Insecticide: Pirimicarb at 0.14 kg. Haulm desiccant: Diquat at 0.59 kg ion in 280 l.

Cultivations, etc:- Deep-tine cultivated three times: Once 29 Oct, 1981, twice 30 Oct. W. wheat sown: 4 Nov. Paraquat applied to kill w. wheat: 3 Apr, 1982. Heavy spring-tine cultivated three times: 15 Apr, 16 Apr, 19 Apr. NPK with Mg applied: 17 Apr. Oxamyl applied, rotary cultivated twice: 20 Apr. Potatoes planted: 21 Apr. Rotary ridged: 17 May. Linuron with paraquat applied: 18 May. Mancozeb applied: 16 June, 2 July, 13 July, 23 Aug. Ofurace with maneb applied: 27 July, 11 Aug. Insecticide applied: 16 June, 2 July, 27 July. Haulm desiccant applied: 6 Oct. Lifted: 19 Oct.

NOTE: Soil samples were taken before applying treatments and after harvest for counts of cysts, eggs and larvae of *Globodera rostochiensis*.

82/W/P/1

TOTAL TUBERS OVER 3.8 CM RIDDLE TONNES/HECTARE

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

OXAMYL VARIETY	0.0	5.6	MEAN
ANCHOR	46.9	59.6	53.2
BANNER	49.2	58.8	54.0
CARA	55.5	62.1	58.8
CROFT	49.2	58.2	53.7
CROWN	52.5	61.5	57.0
DELL	43.0	44.4	43.7
DESIREE	52.9	57.9	55.4
PEER	52.8	44.3	48.5
PIPER	48.5	63.6	56.1
RECORD	43.4	45.2	44.3
MEAN	49.4	55.6	52.5

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

TABLE	VARIETY	OXAMYL	VARIETY OXAMYL
SED	4.33	1.94	6.12

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

STRATUM	DF	SE	CV%
BLOCK.WP	38	7.50	14.3
PLOT AREA HARVESTED	0.00087		