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86/W/P/2 Varieties and Pcn - Potatoes

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86/W/P/2

POTATOES

VARIETIES AND PCN

Object: To study the effects of controlling potato cyst nematode (PCN) by oxamyl on varieties differing in susceptibility - Woburn Horsepool.

Sponsor: A.G. Whitehead.

Design: 3 randomised blocks of 28 plots.

Whole plot dimensions: 3.0 x 4.57.

Treatments: All combinations of:-

1. VARIETY	Varieties:
12290 AF	12290 AF20
CROMWELL	Cromwell
DESIREE	Desiree
DIANA	Diana
ESTIMA	Estima
KINGSTON	Kingston
KIRSTY	Kirsty
MARFONA	Marfona
MORAG	Morag
MORENE	Morene
PIPER	Maris Piper
ROMANO	Romano
SANTE	Sante
WILJA	Wilja

2. OXAMYL Oxamyl (kg):

0.0
5.6

Basal applications: Manures: (10:10:15+4.5 Mg) at 2330 kg. Weedkillers: Paraquat at 0.40 kg ion with linuron at 0.80 kg in 250 l. Fungicides: Mancozeb at 1.4 kg on two occasions in 240 l and applied with the insecticide on two occasions in 200 l. Fentin hydroxide at 0.28 kg applied with the insecticide in 200 l. Insecticide: Pirimicarb at 0.14 kg on three occasions. Desiccant: Diquat at 0.42 kg ion in 250 l.

Cultivations, etc.: - Deep-tine cultivated three times: 29 Nov, 1985, 13 Jan, 1986, 27 Jan. NPK Mg applied: 29 Apr. Heavy spring-tine cultivated, oxamyl applied, spring-tine cultivated: 30 Apr. Spiked rotary cultivated, potatoes planted: 1 May. Rotary ridged, weedkillers applied: 29 May. Mancozeb applied: 1 July, 14 July. Mancozeb applied with the insecticide: 28 July, 13 Aug. Fentin hydroxide applied with the insecticide: 30 Aug. Haulm mechanically destroyed: 29 Sept. Desiccant applied: 10 Oct. Lifted: 14 Oct. Previous crops: W. oats 1984, potatoes 1985.

NOTE: Soil samples were taken before oxamyl was applied and after harvest for cyst and egg counts of PCN.

86/W/P/2

TOTAL TUBERS TONNES/HECTARE

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

OXAMYL VARIETY	0.0	5.6	MEAN
12290 AF	28.3	56.5	42.4
CROMWELL	33.4	56.2	44.8
DESIREE	13.6	42.9	28.2
DIANA	19.8	56.7	38.2
ESTIMA	8.4	34.4	21.4
KINGSTON	32.7	49.5	41.1
KIRSTY	10.0	44.1	27.1
MARFONA	17.8	65.6	41.7
MORAG	27.0	41.9	34.4
MORENE	40.2	61.2	50.7
PIPER	26.4	54.5	40.5
ROMANO	7.9	34.8	21.3
SANTE	24.6	52.0	38.3
WILJA	9.7	48.2	28.9
MEAN	21.4	49.9	35.6

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

TABLE	VARIETY	OXAMYL	VARIETY OXAMYL

SED	3.484	1.317	4.927

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

STRATUM	DF	SE	CV%
BLOCK.WP	54	6.034	16.9

86/W/P/2

PERCENTAGE WARE 4CM (1.57 INCH) RIDDLE

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

OXAMYL VARIETY	0.0	5.6	MEAN
12290 AF	90.6	96.8	93.7
CROMWELL	95.7	94.6	95.2
DESIREE	77.9	95.0	86.5
DIANA	82.0	96.5	89.2
ESTIMA	66.8	90.9	78.8
KINGSTON	95.4	97.1	96.2
KIRSTY	73.7	95.9	84.8
MARFONA	89.8	97.6	93.7
MORAG	91.2	91.7	91.5
MORENE	97.8	98.0	97.9
PIPER	93.0	93.7	93.3
ROMANO	74.3	94.7	84.5
SANTE	94.1	94.4	94.3
WILJA	73.4	95.8	84.6
MEAN	85.4	95.2	90.3

PLOT AREA HARVESTED 0.00070