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# Yields of the Field Experiments 1986

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

### Rothamsted Research

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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<br>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<br>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<br>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