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82/W/CS/284 Varieties & Pcn Tolerance - Potatoes

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82/W/CS/284

VARIETIES & PCN TOLERANCE

Object: In the first year to establish a range of populations of potato cyst nematode (PCN) for subsequent tests on varieties - Woburn Horsepool.

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

The first year, potatoes.

Design: 3 randomised blocks of 32 plots.

Whole plot dimensions: 2.84 x 6.10.

Treatments:

VARIETY	Varieties:
CARA	Cara
CROWN	Pentland Crown
CA CR	Cara plants alternating with Pentland Crown plants within the ridges
CA CA CR	Two Cara plants alternating with one Pentland Crown plant within the ridges

NOTE: Eight replicates of each treatment were contained in each block to allow for future treatments.

Basal applications: Manures: (10:10:15+4.5 Mg) at 3360 kg. Weedkillers: Linuron at 1.1 l 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 0.58 kg ion in 280 l.

Cultivations, etc.: - Deep-tine cultivated three times: once 29 Oct, 1981, twice 30 Oct. Heavy spring-tine cultivated three times: 15 Apr, 1982, 16 Apr, 19 Apr. NPK with Mg applied: 17 Apr. Rotary cultivated with crumbler attached: 21 Apr. Potatoes planted: 22 Apr. Rotary ridged: 17 May. Weedkillers 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 planting and after harvest from selected plots to assess numbers of cysts, eggs and larvae of *Globodera rostochiensis*.

82/W/CS/284

TOTAL TUBERS TONNES/HECTARE

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

TREATMNT	CARA	CROWN	CA CR	CA CA CR	MEAN
	56.7	62.9	59.9	59.0	59.6

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

TABLE	TREATMNT
SED	2.52

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

STRATUM	DF	SE	CV%
BLOCK.WP	90	8.72	14.6
PLOT AREA HARVESTED	0.00100		