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Yields of the Field Experiments 1986

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Rothamsted Research

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86/W/CS/35

NEMATICIDES DOSAGE

Object: To study the effects of rates and methods of applying nematicides on Globodera rostochiensis and yield of potatoes; residual effects are also studied - Woburn Stackyard AII.

Sponsor: A.G. Whitehead.

The 19th year, potatoes.

For previous years see 72/W/CS/35(t) and 73-85/W/CS/35.

Design: 2 series each of 4 randomised blocks of 18 plots.

Whole plot dimensions: 4.27 x 6.10.

Treatments:-

The experiment has two series with the following cropping:-

	1968-72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
Series II	P	P*	SB	B	P*	P	P	P*	W	B	B	P*	W	B	P
Series III	P	P	P*	SB	B	P*	P	P	P*	W	B	B	P*	B	P

Series I was damaged by soil erosion and has been excluded from the experiment since 1980.
P = Potatoes, SB = Sugar beet, B = S. barley, W = W. wheat

*Treatments applied to potatoes, subsequent crops test residual effects.

No treatments were applied in 1986 and yields were not taken.

Standard applications:
Both Series: 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.

Seed: Pentland Crown.

Cultivations, etc.:-
Both series: Ploughed: 4 Dec, 1985. NPK Mg applied: 30 Apr, 1986. Rotary cultivated, potatoes planted: 12 May. Rotary ridged, weedkillers applied: 29 May. Mancozeb applied: 1 July, 15 July. Mancozeb applied with the insecticide: 29 July, 13 Aug. Fentin hydroxide applied with the insecticide: 30 Aug. Haulm mechanically destroyed: 29 Sept. Desiccant applied: 10 Oct. Lifted: 4 Nov.

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