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# Yields of the Field Experiments 1985

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## 85/R/P/6 Rates and Methods of Applying Pyrethroid Sprays - Potatoes

### Rothamsted Research

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85/R/P/6

POTATOES

RATES AND METHODS OF APPLYING PYRETHROID SPRAYS

Object: To study the effects of a pyrethroid insecticide applied electrostatically or conventionally - Long Hoos III 5.

Sponsors: D.C. Griffiths, J.A. Pickett, G.R. Cayley, G. Dawson, M. Woodcock.

Design: 4 randomised blocks of 9 plots.

Whole plot dimensions: 2.28 x 5.0.

Treatments:

INSCTCDE	Insecticide, applied on 23 July, 1985:
0	None (duplicated)
FMC 2 E	'FMC 5800' at 2 g a.i. applied electrostatically (duplicated)
FMC 4 E	'FMC 5800' at 4 g a.i. applied electrostatically (duplicated)
FMC 8 E	'FMC 5800' at 8 g a.i. applied electrostatically (duplicated)
FMC 8 C	'FMC 5800' at 8 g a.i. applied conventionally in 200 l

NOTES: (1) A planned treatment with a pheromone spray was not applied because of machine failure.  
(2) Electrostatic treatments were applied with an inductively charged, vertically mounted, electrostatic sprayer in 8.4 l.

Basal applications: Manures: (10:10:15+4.5 Mg) at 2500 kg. Weedkillers: Paraquat at 0.56 kg ion in 220 l. Linuron at 1.3 kg with paraquat at 0.28 kg ion in 220 l. Fungicide: Mancozeb at 1.3 kg in 220 l on seven occasions. Desiccant: Diquat at 0.60 kg ion in 220 l.

Seed: King Edward.

Cultivations, etc.: - Ploughed: 13 Nov, 1984. Paraquat applied: 17 Apr, 1985. NPK Mg applied: 18 Apr. Deep-tine cultivated, spring-tine cultivated, rotary cultivated: 22 Apr. Planted by hand: 23 Apr. Linuron with paraquat applied: 16 May. Fungicide applied: 1 July, 10 July, 23 July, 6 Aug, 20 Aug, 29 Aug, and 5 Sept. Desiccant applied: 20 Sept. Haulm mechanically destroyed, potatoes lifted: 26 Sept. Previous crops: S. and w. beans 1983, s. wheat 1984.

NOTE: Aphid counts were made after the application of treatment sprays.

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TOTAL TUBERS TONNES/HECTARE

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

INSC TCDE	0	FMC 2 E	FMC 4 E	FMC 8 E	FMC 8 C	MEAN
	57.6	60.3	57.9	57.5	60.8	58.6

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

TABLE	INSC TCDE	
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SED	3.52	MAX-MIN
	2.87	MAX REP

	INSC TCDE
MAX-MIN	FMC 8 C V ANY OF REMAINDER
MAX-REP	ANY OF REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	28	5.74	9.8
PLOT AREA HARVESTED	0.000381		