

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1985

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1986) *85/R/P/6 Rates and Methods of Applying Pyrethroid Sprays - Potatoes ; Yields Of The Field Experiments 1985*, pp 340 - 341 - DOI:

<https://doi.org/10.23637/ERADOC-1-19>

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:

INSCODE	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.

85/R/P/6

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	
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		