

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 1978

[Full Table of Content](#)



78/R/P/6 Polythene Sheet and Aphids - Potatoes

Rothamsted Research

Rothamsted Research (1979) *78/R/P/6 Polythene Sheet and Aphids - Potatoes* ; Yields Of The Field Experiments 1978, pp 440 - 441 - DOI: <https://doi.org/10.23637/ERADOC-1-30>

78/R/P/6

POTATOES

POLYTHENE SHEET AND APHIDS

Object: To study the effects of protecting potatoes with a polythene sheet during early growth on the incidence of aphids and on the yield of potatoes - Highfield IV.

Sponsor: A. Cameron.

Design: 3 randomised blocks of 4 plots.

Whole plot dimensions: 15.6 x 15.2.

Treatments: All combinations of:-

1. PLANTDTE Dates of planting:

25 APRIL
21 JUNE

2. POLYTHNE Polythene covering:

NONE
COVERED

NOTE: 'PLANTDTE 25 APRIL COVERED' plots covered on 17 May. The covers were removed between 9 and 21 June. 'PLANTDTE 21 JUNE COVERED' plots covered on 29 June. The covers were removed between 17 and 21 July.

Basal applications: Manures: (13:13:20) at 1500 kg. Weedkillers: Glyphosate at 1.5 l in 220 l. Linuron at 1.2 kg in 220 l. Paraquat at 0.42 kg ion in 220 l. Haulm desiccant: Undiluted BOV at 170 l.

Seed: Pentland Crown.

Cultivations, etc.: - Glyphosate applied: 18 Nov, 1977. Ploughed: 20 Dec. Heavy spring-tine cultivated: 6 Apr, 1978. NPK applied: 17 Apr. First planting date plots spike rotary cultivated and planted: 25 Apr. Linuron applied to these plots only: 8 May. Second planting date plots spike rotary cultivated and planted: 21 June. First planting date uncovered plots grubbed, all plots ridged: 26 June. Linuron and paraquat applied to second planting date plots: 28 June. Haulm pulverized: 23 Sept. BOV applied: 2 Oct. Lifted: 20 Oct. Previous crops: Barley 1976, W. oats 1977.

78/R/P/6

TOTAL TUBERS TONNES/HECTARE

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

POLYTHNE PLANTDTE	NONE	COVERED	MEAN
25 APRIL	40.9	35.9	38.4
21 JUNE	26.5	25.9	26.2
MEAN	33.7	30.9	32.3

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

TABLE	PLANTDTE	POLYTHNE	PLANTDTE POLYTHNE
SED	1.94	1.94	2.74

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	3.36	10.4

PERCENTAGE WARE 3.81CM (1.5 INCH) RIDDLE

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

POLYTHNE PLANTDTE	NONE	COVERED	MEAN
25 APRIL	97.1	95.9	96.5
21 JUNE	94.0	92.8	93.4
MEAN	95.6	94.3	94.9

PLOT AREA HARVESTED 0.00434