

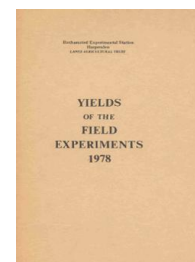
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78/R/P/6 Polythene Sheet and Aphids - Potatoes

Rothamsted Research

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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