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73/W/P/3 & R/P/22 384 - Varieties - Potatoes

Rothamsted Research

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73/R/P/4

POTATOES

SPACING AND FERTILISER

Object: To study the effects of different spacings within and between rows and of fertiliser rates on yields and size grades of two potato varieties - Stackyard.

Sponsors: G.A. Hide, J.R. Moffatt, F.V. Widdowson.

Design: 3 randomised blocks of 24 plots.

Whole plot dimensions: Narrow rows 2.84 x 15.2
Wide rows 3.66 x 15.2
Plot area harvested: Narrow rows 0.00217
Wide rows 0.00279

Treatments: All combinations of:

1. Varieties:	VARIETY
King Edward	Edward
Pentland Crown	Crown
2. Compound fertiliser (13:13:20) kg:	FERT
1510	1510
3020	3020
3. Row spacing cm:	ROWSPACE
71 (28 inches)	71
91 (36 inches)	91
4. Number of plants per hectare:	PLANT/HA
37100 (by spacing seed at 38 cm on rows 71 cm apart, 30 cm on rows 91 cm apart)	37100
29700 (seed 48 cm on 71 cm rows, 38 cm on 91 cm rows)	29700
22200 (seed 61 cm on 71 cm rows, 48 cm on 91 cm rows)	22200

Basal applications: Weedkillers: Linuron at 1.2 kg with paraquat at 0.4 kg ion in 450 l. Fungicide: Mancozeb at 1.3 kg in 430 l on narrow rows and in 340 l on wide rows. Insecticide: Demeton-s-methyl at 0.25 kg applied with the fungicide.