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Yields of the Field Experiments 1974

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74/R/P/1 and 74/W/P/1 Varieties - Potatoes

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74/R/P/1 and 74/W/P/1

POTATOES

VARIETIES

Object: To study the yield and susceptibility to diseases of newer varieties of potatoes - Rothamsted (R) Pastures and Woburn (W) Lansome III.

Sponsors: J.R. Moffatt, G.A. Hide.

Design: Pastures (R): 3 randomised blocks of 7 plots
Lansome III (W): 3 randomised blocks of 5 plots

Whole plot dimensions: 2.85 x 15.2. Area harvested: 0.00217.

Treatments: Varieties:-

	VARIETY
Desiree, Pastures (R) only	Desiree
King Edward, Pastures (R) only	Edward
Maris Piper	Piper
Pentland Crown	Crown
Pentland Ivory	Ivory
Stormont Enterprise	Enterprise
Ulster Lancer	Lancer

Basal applications:

Pastures (R): Manures: (13:13:20) at 1510 kg. Weedkillers: Linuron at 1.2 kg plus paraquat at 0.42 kg ion in 450 l. Fungicide and insecticide: Mancozeb at 1.3 kg plus demeton-s-methyl at 0.25 kg in 450 l. Fungicide: Mancozeb at 1.3 kg in 450 l.

Lansome III (W): Manures: (13:13:20) at 1880 kg. Weedkillers: Linuron at 1.2 kg plus paraquat at 0.28 kg ion in 280 l. Fungicide with insecticide: Mancozeb at 1.3 kg plus demeton-s-methyl at 0.25 kg in 450 l. Fungicide: Mancozeb at 1.3 kg in 450 l.

Cultivations, etc.:-

Pastures (R): Ploughed: 23 Nov, 1973. Spring-tine cultivated: 17 Apr, 1974. NPK applied: 24 Apr. Spike rotary cultivated, potatoes planted: 29 Apr. Weedkiller applied: 21 May. Grubbed: 19 June. Rotary ridged: 21 June. Fungicide with insecticide applied: 12 July. Fungicide applied: 2 Aug. Haulm mechanically destroyed: 10 Sept. Sprayed with undiluted BOV at 220 l: 16 Sept. Lifted: 25 Oct. Previous crops: Barley 1972, spring beans 1973.

74/R/P/1 and 74/W/P/1

Lansome III (W): Subsoiled, tines 140 cm apart, 50 cm deep:
12-14 Nov, 1973. Ploughed: 14 Dec. Spring-tine cultivated:
10 Apr, 1974. NPK applied: 16 Apr. Rotary cultivated, potatoes
planted: 18 Apr. Weedkiller applied: 16 May. Rotary ridged:
11 June. Fungicide with insecticide applied: 18 July. Fungicide
applied: 7 Aug. Haulm mechanically destroyed: 12 Sept. Sprayed
with undiluted BOV at 170 l: 18 Sept. Lifted: 17 Oct. Previous
crops: Barley 1972, beans 1973.

NOTE: Tubers were graded into six sizes. Incidence of *Rhizoctonia solani*
and common scab on the produce was assessed.

Standard errors per plot. Total tubers, tonnes/hectare:

Pastures (R):	2.94 or 5.5% (12 d.f.)
Lansome III (W):	2.72 or 4.8% (8 d.f.)

74/R/P/1 and 74/W/P/1

TABLES OF MEANS

PASTURES (R)

VARIETY							Mean
Desiree	Edward	Piper	Crown	Ivory	Entprise	Lancer	
TOTAL TUBERS: TONNES/HECTARE							
50.6	56.1	58.0	53.4	48.8	58.4	46.5	53.1

STANDARD ERROR OF DIFFERENCES

VARIETY

2.40

PERCENTAGE WARE: 4.44 CM (1.75 INCH) RIDDLE

86.3	88.1	90.8	95.7	94.2	88.9	92.8	90.9
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74/R/P/1 and 74/W/P/1

LANSIME III (W)

VARIETY					Mean
Piper	Crown	Ivory	Enterprise	Lancer	
TOTAL TUBERS: TONNES/HECTARE					
57.4	59.9	51.5	63.2	51.9	56.8

STANDARD ERRORS OF DIFFERENCES

VARIETY

2.22

PERCENTAGE WARE: 4.44 CM (1.75 INCH) RIDDLE

86.8	93.7	90.6	82.5	88.6	88.4
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