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RESEARCH

Yields of the Field Experiments 1987

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87/R/P/1 and 87/W/P/1 Varieties - Potatoes

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87/R/P/1 and 87/W/P/1

POTATOES

VARIETIES

Object: To compare the quality and yield of some of the newer varieties of potato with current standards on two soil types - Rothamsted Little Hoos (R), Woburn Horsepool Lane Close West (W).

Sponsor: R. Moffitt.

Design: 4 randomised blocks of 7 plots.

Whole plot dimensions: 3.0 x 6.1.

Treatments:

VARIETY	Varieties:
CARA	Cara
CROWN	Pentland Crown
DESIREE	Desiree
ESTIMA	Estima
KINGSTON	Kingston
ROMANO	Romano
WILJA	Wilja

Basal applications:

Little Hoos (R): Manures: (0:18:36) at 690 kg. Chalk at 5 t. FYM at 35 t. (10:10:15+4.5 Mg) at 1960 kg. Weedkillers: Linuron at 1.7 kg with paraquat at 0.50 kg ion in 500 l. Fungicides: Mancozeb at 1.4 kg in 200 l on four occasions applied with the insecticide on the second occasion. Fentin hydroxide at 0.28 kg in 200 l on two occasions. Insecticide: Pirimicarb at 0.14 kg. Desiccant: Diquat at 0.80 kg ion in 300 l.

Horsepool Lane Close West (W): Manures: (0:18:36) at 690 kg. (10:10:15+4.5 Mg) at 2290 kg. Weedkillers: Glyphosate at 1.4 kg in 200 l. Linuron at 1.7 kg in 200 l. Fungicides: Mancozeb at 1.4 kg in 200 l on four occasions applied with the insecticide on the second occasion. Fentin hydroxide at 0.28 kg in 200 l on two occasions. Insecticide: Pirimicarb at 0.14 kg. Desiccant: Diquat at 0.80 kg ion in 200 l.

Cultivations, etc.:-

Little Hoos (R): PK applied: 17 Sept, 1986. Chalk applied: 24 Sept. FYM applied: 12 Nov. Ploughed: 17 Nov. NPK Mg applied: 14 Apr, 1987. Rotary harrowed and ridged: 21 Apr. Potatoes hand planted, split back: 22 Apr. Ridged: 29 Apr. Weedkillers applied: 8 May. Mancozeb applied: 24 June, 8 July, 28 July, 10 Aug. Fentin hydroxide applied: 28 Aug, 9 Sept. Insecticide applied: 8 July. Desiccant applied: 21 Sept. Haulm mechanically destroyed: 26 Sept. Lifted: 25 Nov. Previous crops: W. barley 1985, oilseed rape 1986.

87/R/P/1 and 87/W/P/1

Cultivations, etc.:-

Horsepool Lane Close West (W): PK applied: 16 Sept, 1986. Glyphosate applied: 19 Sept. Ploughed: 12 Nov. NPK Mg applied: 22 Apr, 1987. Rotary cultivated, ridged, potatoes hand planted, split back: 28 Apr. Rotary ridged: 15 May. Linuron applied: 25 May. Mancozeb applied: 29 June, 8 July, 26 July, 5 Aug. Fentin hydroxide applied: 18 Aug, 4 Sept. Insecticide applied: 8 July. Desiccant applied: 18 Sept. Haulm mechanically destroyed: 1 Oct. Lifted: 6 Nov. Previous crops: W. wheat 1985, w. oats 1986.

87/R/P/1

TOTAL TUBERS TONNES/HECTARE

***** Tables of means *****

VARIETY	
CARA	45.8
CROWN	37.6
DESIREE	37.9
ESTIMA	43.4
KINGSTON	33.3
ROMANO	31.5
WILJA	37.8
Mean	38.2

*** Standard errors of differences of means ***

Table	VARIETY
s.e.d.	3.69

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	18	5.22	13.7

PERCENTAGE WARE 3.81 CM (1.5 INCH) RIDDLE

***** Tables of means *****

VARIETY	
CARA	92.7
CROWN	96.2
DESIREE	95.5
ESTIMA	92.9
KINGSTON	93.0
ROMANO	95.6
WILJA	90.2
Mean	93.7

PLOT AREA HARVESTED 0.00091

87/W/P/1

TOTAL TUBERS TONNES/HECTARE

***** Tables of means *****

VARIETY	
CARA	42.0
CROWN	40.8
DESIREE	26.0
ESTIMA	37.0
KINGSTON	39.1
ROMANO	34.0
WILJA	32.9
Mean	35.9

*** Standard errors of differences of means ***

Table	VARIETY
s.e.d.	5.04

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	18	7.13	19.8

PERCENTAGE WARE 4.44CM (1.75 INCH) RIDDLE

***** Tables of means *****

VARIETY	
CARA	83.4
CROWN	85.9
DESIREE	82.5
ESTIMA	85.5
KINGSTON	86.1
ROMANO	86.8
WILJA	79.0
Mean	84.2

PLOT AREA HARVESTED 0.00091