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# Yields of the Field Experiments 1986

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## 86/R/P/1 Varieties - Potatoes

### Rothamsted Research

Rothamsted Research (1987) *86/R/P/1 Varieties - Potatoes* ; Yields Of The Field Experiments 1986, pp 298 - 300 - DOI: <https://doi.org/10.23637/ERADOC-1-36>

86/R/P/1 and 86/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 Great Knott I (R), Woburn Lansome II (W).

Sponsor: R. Moffitt.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 3.0 x 6.1.

Treatments:

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

Basal applications:

Great Knott I (R): Manures: K at 250 kg as muriate of potash. FYM at 35 t. (10:10:15+4.5 Mg) at 1960 kg. Weedkillers: Linuron at 1.3 kg with paraquat at 0.50 kg ion in 200 l. Fungicides: Mancozeb at 1.4 kg in 200 l on four occasions applied with the insecticide on the third occasion. Fentin hydroxide at 0.28 kg in 200 l on two occasions applied with the insecticide on the first occasion. Insecticide: Pirimicarb at 0.14 kg on two occasions. Desiccant: Diquat at 0.56 kg ion in 500 l.

Lansome II (W): Manures: (0:18:36) at 690 kg. FYM at 50 t. (10:10:15+4.5 Mg) at 2280 kg. Nematicide: Aldicarb at 3.3 kg. Weedkillers: Linuron at 0.90 kg with paraquat at 0.40 kg ion in 250 l. Fungicide: Mancozeb at 1.4 kg on four occasions, in 240 l on the first two occasions, in 200 l applied with the insecticide on the third and fourth. Fentin hydroxide at 0.28 kg applied with the insecticide in 200 l. Insecticide: Pirimicarb at 0.14 kg on three occasions. Desiccant: Diquat at 0.42 kg ion in 200 l.

Cultivations, etc.:-

Great Knott I (R): K applied: 12 Nov, 1985. FYM applied: 29 Nov. Ploughed: 10 Dec. NPK Mg applied, rotary harrowed: 30 Apr, 1986. Ridged, potatoes hand planted, split back: 1 May. Ridged: 12 May. Weedkillers applied: 26 May. Mancozeb applied: 30 June, 14 July, 28 July, 12 Aug. Fentin hydroxide applied: 29 Aug, 11 Sept. Insecticide applied: 28 July, 29 Aug. Desiccant applied: 17 Sept. Haulm mechanically destroyed: 1 Oct. Lifted: 2 Oct. Previous crops: W. wheat 1984, s. beans 1985.

86/R/P/1 and 86/W/P/1

Cultivations, etc.:-

Lansome II (W): PK applied: 23 Sept, 1985. FYM applied: 10 Dec.  
 Ploughed: 20 Dec. NPK Mg applied: 2 May, 1986. Heavy spring-tine  
 cultivated: 6 May. Nematicide applied, spring-tine cultivated:  
 7 May. Rotary cultivated, ridged, potatoes hand planted, split  
 back: 13 May. Rotary ridged, weedkillers applied: 29 May.  
 Mancozeb applied: 1 July, 14 July, 28 July, 13 Aug. Fentin  
 hydroxide applied: 30 Aug. Insecticide applied: 28 July, 13 Aug,  
 30 Aug. Haulm mechanically destroyed: 30 Sept. Desiccant  
 applied: 9 Oct. Lifted: 21 Oct. Previous crops: S. barley 1984,  
 w. oats 1985.

86/R/P/1

TOTAL TUBERS TONNES/HECTARE

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

VARIETY	CARA	CROWN	DESIREE	KINGSTON	ROMANO	WILJA	MEAN
	49.0	60.9	58.4	52.9	52.5	59.5	55.5

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

TABLE	VARIETY
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SED	2.39

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	3.38	6.1

PERCENTAGE WARE 3.81 CM (1.5 INCH) RIDDLE

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

VARIETY	CARA	CROWN	DESIREE	KINGSTON	ROMANO	WILJA	MEAN
	95.4	97.7	92.2	96.5	96.7	91.6	95.0

PLOT AREA HARVESTED 0.00091

86/W/P/1

TOTAL TUBERS TONNES/HECTARE

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

VARIETY	CARA	CROWN	DESIREE	KINGSTON	ROMANO	WILJA	MEAN
	50.1	64.0	63.1	68.5	61.1	65.1	62.0

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

TABLE	VARIETY
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SED	2.68

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	3.80	6.1

PERCENTAGE WARE 3.81 CM (1.5 INCH) RIDDLE

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

VARIETY	CARA	CROWN	DESIREE	KINGSTON	ROMANO	WILJA	MEAN
	95.5	96.2	89.6	94.9	97.6	92.7	94.4

PLOT AREA HARVESTED 0.00091