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85/R/P/23 and 85/W/P/23 Varieties - Potatoes

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85/R/P/23 and 85/W/P/23

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 Highfield IV (R), Woburn Great Hill Bottom I (W).

Sponsor: R. Moffitt.

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 3.0 x 6.1.

Treatments:

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

Basal applications:

Highfield IV (R): Manures: (0:18:36) at 690 kg. (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, with the insecticide on the second and third occasion. Fentin hydroxide at 0.28 kg on two occasions in 200 l. Insecticide: Pirimicarb at 0.14 kg on two occasions. Desiccant: BOV at 170 l.

Great Hill Bottom I (W): Manures: (0:18:36) at 690 kg. FYM at 50 t. (10:10:15+4.5 Mg) at 2470 kg. Weedkillers: Linuron at 1.0 kg with paraquat at 0.40 kg ion in 250 l. Metribuzin at 0.70 kg in 500 l. Fungicides: Mancozeb at 1.4 kg in 250 l on six occasions with the insecticide on the second occasion. Fentin acetate with maneb (as 'Brestan 60' in 0.5 kg) in 250 l. Insecticide: Pirimicarb at 0.14 kg. Desiccant: Diquat at 0.56 kg ion in 250 l.

Cultivations, etc.:-

Highfield IV (R): PK applied: 10 Oct, 1984. Ploughed: 19 Nov. NPK Mg applied: 4 Apr, 1985. Rotary harrowed: 17 Apr. Potatoes hand planted: 19 Apr. Ridged: 30 Apr. Weedkillers applied: 16 May. Mancozeb applied: 20 June, 4 July, 23 July, 6 Aug. Insecticide applied: 4 July, 23 July. Fentin hydroxide applied: 21 Aug, 11 Sept. Haulm desiccant applied: 10 Oct. Lifted: 21 Oct. Previous crops: S. barley 1983, w. beans 1984.

Great Hill Bottom I (W): Discd: 7 Sept, 1984. PK applied: 18 Sept. Sub-soiled, tines 142 cm apart, 56 cm deep: 24 Sept. FYM applied: 15 Nov. Ploughed: 20 Dec. NPK Mg applied: 4 Apr, 1985. Power harrowed, potatoes planted by hand: 23 Apr. Rotary ridged: 29 Apr. Linuron and paraquat applied: 20 May. Metribuzin applied: 31 May. Rotary ridged: 19 June. Mancozeb applied: 20 June, 3 July, 23 July, 6 Aug, 13 Aug, 7 Sept. Insecticide applied: 3 July. 'Brestan 60' applied: 21 Aug. Haulm mechanically destroyed: 26 Sept. Haulm desiccant applied: 9 Oct. Lifted: 17 Oct. Previous crops: S. barley 1983, w. oats 1984.

85/R/P/23

TOTAL TUBERS TONNES/HECTARE HIGHFIELD IV (R)

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

VARIETY	CARA	CROWN	DESIREE	ROMANO	WILJA	MEAN
	74.3	67.9	61.9	57.6	59.6	64.3

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

TABLE	VARIETY
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SED	2.38

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	3.37	5.2

PERCENTAGE WARE 3.81 CM (1.5 INCH) RIDDLE

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

VARIETY	CARA	CROWN	DESIREE	ROMANO	WILJA	MEAN
	98.6	98.4	96.4	97.7	97.1	97.7

PLOT AREA HARVESTED 0.00091

85/W/P/23

TOTAL TUBERS TONNES/HECTARE GREAT HILL BOTTOM I (W)

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

VARIETY	CARA	CROWN	DESIREE	ROMANO	WILJA	MEAN
	68.1	52.7	49.6	43.1	42.9	51.3

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

TABLE	VARIETY
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SED	4.08

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	5.77	11.2

PERCENTAGE WARE 3.81 CM (1.5 INCH) RIDDLE

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

VARIETY	CARA	CROWN	DESIREE	ROMANO	WILJA	MEAN
	90.5	87.7	78.7	89.5	71.2	83.5

PLOT AREA HARVESTED 0.00091