Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



# Yields of the Field Experiments 1984



Full Table of Content

# **Potatoes**

# **Rothamsted Research**

Rothamsted Research (1985) *Potatoes*; Yields Of The Field Experiments 1984, pp 326 - 339 - DOI: https://doi.org/10.23637/ERADOC-1-32

#### POTATOES

### VARIETIES AND STEM CANKER

Object: To study the effects of stem canker (Rhizoctonia solani) on plant growth and yield of a range of early and maincrop potato varieties using chitted and unchitted seed - Gt. Knott II.

Sponsors: G.A. Hide, P.J. Read, J.P. Sandison.

Design: Early varieties: 3 randomised blocks of 20 plots.
Maincrop varieties: 3 randomised blocks of 28 plots.

Whole plot dimensions:  $3.0 \times 10.7$ .

#### Treatments:

To EARLY varieties, all combinations of:-

VARIETY Varieties:

A COMET Arran Comet
ESTIMA Estima
M PEER Maris Peer
U PRINCE Ulster Prince
U SCEPTR Ulster Sceptre

2. INOCULUM Inoculum to seed at planting:

NONE None

RHIZOCT R. solani inoculum

3. SD TREAT Seed treatment:

NONE CHITTED

To MAINCROP varieties, all combinations of:-

VARIETY Varieties:

CARA
DESIREE
K EDWARD
M PIPER
P CROWN
P SQUIRE
RECORD
Cara
Desiree
King Edward
Maris Piper
Pentland Crown
Pentland Squire
Record

KECOI d

2. INOCULUM Inoculum to seed at planting:

NONE None

RHIZOCT R. solani inoculum

3. SD TREAT Seed treatment:

NONE CHITTED

NOTE: Rhizoctonia inoculum was grown on horticultural vermiculite and sprinkled over seed tubers at planting before covering.

Basal applications: Manures: FYM at 45 t. (10:10:15+4.5 Mg) at 1960 kg. Weedkillers: Linuron at 1.3 kg with paraquat at 0.50 kg ion in 500 l. Fungicide: Fentin hydroxide at 0.28 kg in 200 l on seven occasions, applied with the insecticide on the first and third occasion. Insecticide: Pirimicarb at 0.14 kg on two occasions. Desiccant: Diquat at 0.56 kg ion in 200 l.

Cultivations, etc:- Subsoiled, tines 45 cm deep, 76 cm apart: 6 Oct, 1983. FYM applied: 4 Nov. Ploughed: 9 Nov. NPK Mg applied, heavy spring-tine cultivated: 23 Mar, 1984. Rotary harrowed: 10 Apr. Early potatoes planted by hand: 11 Apr. Maincrop potatoes planted by hand: 12 Apr. Weedkillers applied: 4 May. Fungicide with insecticide applied: 19 June, 17 July. Fungicide alone applied: 3 July, 30 July, 13 Aug, 28 Aug, 11 Sept. Haulm desiccant applied: 4 Oct. Lifted: 16 Oct. Previous crops: S. barley 1982, w. oats 1983.

NOTE: Plant samples were taken on four occasions to assess stem canker, weight of foliage and weight and numbers of tubers.

### 84/R/P/1 EARLY POTATOES

TOTAL TUBERS TONNES/HECTARE

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

INOCULUM	NONE	RHIZOCT	MEAN	
	24 3	22 5	22 /	
U SCEPIK	22.1	19.3	20.7	
MEAN	24.0	21.3	22.7	
SD TREAT	NONE	CHITTED	MEAN	
VARIETY				
A COMET	23.9	23.0	23.4	
ESTIMA	32.4	31.7	32.1	
M PEER	17.7	19.8		
U PRINCE	18.0			
U SCEPTR	20.3	21.2	20.7	
MEAN	22.5	22.8	22.7	
SD TREAT	NONE	CHITTED	MEAN	
INOCULUM				
NONE	23.6	24.3	24.0	
RHIZOCT	21.3	21.4	21.3	
MEAN	22.5	22.8	22.7	
INOCULUM	NONE		RHIZOCT	
SD TREAT	NONE	CHITTED	NONE	CHITTED
	24 3	24 4	23 5	21.5
				31.0
				17.8
				16.9
U SCEPTR	21.5	22.8	19.1	19.5
	VARIETY A COMET ESTIMA M PEER U PRINCE U SCEPTR MEAN  SD TREAT VARIETY A COMET ESTIMA M PEER U PRINCE U SCEPTR MEAN  SD TREAT INOCULUM NONE RHIZOCT MEAN  INOCULUM	VARIETY A COMET 24.3 ESTIMA 33.3 M PEER 20.3 U PRINCE 19.8 U SCEPTR 22.1  MEAN 24.0  SD TREAT NONE VARIETY A COMET 23.9 ESTIMA 32.4 M PEER 17.7 U PRINCE 18.0 U SCEPTR 20.3  MEAN 22.5  SD TREAT NONE INOCULUM NONE RHIZOCT 21.3  MEAN 22.5  INOCULUM NONE SD TREAT NONE VARIETY A COMET 23.6 RHIZOCT 21.3  MEAN 22.5	VARIETY A COMET 24.3 22.5 ESTIMA 33.3 30.8 M PEER 20.3 17.2 U PRINCE 19.8 16.9 U SCEPTR 22.1 19.3  MEAN 24.0 21.3  SD TREAT NONE CHITTED VARIETY A COMET 23.9 23.0 ESTIMA 32.4 31.7 M PEER 17.7 19.8 U PRINCE 18.0 18.6 U SCEPTR 20.3 21.2  MEAN 22.5 22.8  SD TREAT NONE CHITTED 18.0 U SCEPTR 20.3 21.2  MEAN 22.5 22.8  SD TREAT NONE CHITTED 18.0 INOCULUM NONE 23.6 24.3 RHIZOCT 21.3 21.4  MEAN 22.5 22.8  INOCULUM NONE CHITTED VARIETY A COMET 24.3 24.4 ESTIMA 34.2 32.4 M PEER 18.9 21.8	VARIETY A COMET 24.3 22.5 23.4 ESTIMA 33.3 30.8 32.1 M PEER 20.3 17.2 18.7 U PRINCE 19.8 16.9 18.3 U SCEPTR 22.1 19.3 20.7  MEAN 24.0 21.3 22.7  SD TREAT NONE CHITTED MEAN VARIETY A COMET 23.9 23.0 23.4 ESTIMA 32.4 31.7 32.1 M PEER 17.7 19.8 18.7 U PRINCE 18.0 18.6 18.3 U SCEPTR 20.3 21.2 20.7  MEAN 22.5 22.8 22.7  SD TREAT NONE CHITTED MEAN 1NOCULUM NONE 23.6 24.3 24.0 RHIZOCT 21.3 21.4 21.3  MEAN 22.5 22.8 22.7  INOCULUM NONE CHITTED MEAN 21.3  MEAN 22.5 22.8 22.7  INOCULUM NONE CHITTED MEAN 21.3  MEAN 22.5 22.8 22.7

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

TABLE	VARIETY	INOCULUM	SD TREAT	VARIETY INOCULUM
SED	1.44	0.91	0.91	2.03
TABLE	VARIETY SD TREAT	INOCULUM SD TREAT	VARIETY INOCULUM SD TREAT	
SED	2.03	1.29	2.88	

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

 STRATUM
 DF
 SE
 CV%

 BLOCK.WP
 38
 3.52
 15.5

84/R/P/1 EARLY POTATOES

PERCENTAGE WARE 4.44CM (1.75 INCH) RIDDLE

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

INOCULUM	NONE	RHIZOCT	MEAN	
VARIETY				
A COMET	39.7	65.5	52.6	
ESTIMA	77.0		80.5	
M PEER	32.3			
U PRINCE	65.3			
U SCEPTR	42.5	67.5	55.0	
MEAN	51.4	69.6	60.5	
SD TREAT	NONE	CHITTED	MEAN	
VARIETY				
A COMET	50.7	54.5		
ESTIMA	80.9	80.2	80.5	
M PEER	41.9	40.9	41.4	
U PRINCE	78.1	67.5	72.8	
U SCEPTR	53.5	56.5	55.0	
MEAN	61.0	59.9	60.5	
SD TREAT	NONE	CHITTED	MEAN	
INOCULUM				
NONE	54.6	48.1	51.4	
RHIZOCT	67.4	71.7	69.6	
MEAN	61.0	59.9	60.5	
INOCULUM	NONE		RHIZOCT	
SD TREAT VARIETY	NONE	CHITTED	NONE	CHITTED
A COMET	35.1	44.2	66.2	64.7
ESTIMA				
M PEER		24.9		
U PRINCE	74.8			
U SCEPTR	43.9	41.1	63.1	71.9
U SCEPTR	43.9	41.1	03.1	/1.9

PLOT AREA HARVESTED 0.00103

### 84/R/P/1 MAIN CROP POTATOES

TOTAL TUBERS TONNES/HECTARE

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

INOCULUM VARIETY	NONE	RHIZOCT	MEAN	
CARA	47.7	43.0	45.4	
DESIREE	29.3		28.3	
K EDWARD	32.1			
M PIPER	30.1		29.0	
P CROWN	44.4	28.4	29.2	
			41.9	
P SQUIRE RECORD	40.4	32.9 22.2	36.6	
RECORD	25.5	22.2	23.9	
MEAN	35.6	31.3	33.5	
SD TREAT	NONE	CHITTED	MEAN	
VARIETY				
CARA	43.8	46.9	45.4	
DESIREE	29.5	27.2	28.3	
K EDWARD	27.9	30.1	29.0	
M PIPER	29.3	29.2	29.2	
P CROWN	41.6		41.9	
P SQUIRE	37.6		36.6	
RECORD	24.3	23.5	23.9	
MEAN	33.4	33.5	33.5	
SD TREAT	NONE	CHITTED	MEAN	
NONE	35.7	35.6	35.6	
RHIZOCT	31.1	31.5		
KHIZUCI	31.1	31.5	31.3	
MEAN	33.4	33.5	33.5	
INOCULUM	NONE		RHIZOCT	
SD TREAT	NONE	CHITTED	NONE	CHITTED
VARIETY				
CARA	46.8	48.6	40.8	45.2
DESIREE	30.7	27.9	28.3	26.4
K EDWARD	31.6	32.6	24.2	27.5
M PIPER	29.0	31.2	29.6	27.2
P CROWN	43.9	45.0	39.3	39.4
P SQUIRE	41.9	38.9	33.2	32.5
RECORD	26.3	24.8	22.2	22.2
P SQUIRE	41.9	38.9	33.2	32

84/R/P/1 MAIN CROP POTATOES

TOTAL TUBERS TONNES/HECTARE

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

TABLE	VARIETY	INOCULUM	SD TREAT	VARIETY INOCULUM
SED	1.71	0.91	0.91	2.42
TABLE	VARIETY SD TREAT	INOCULUM SD TREAT	VARIETY INOCULUM SD TREAT	
SED	2.42	1.29	3.42	

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

 STRATUM
 DF
 SE
 CV%

 BLOCK.WP
 54
 4.19
 12.5

# 84/R/P/1 MAIN CROP POTATOES

PERCENTAGE WARE 4.44CM (1.75 INCH) RIDDLE

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

INOCULUM VARIETY	NONE	RHIZOCT	MEAN	
CARA	90.3	91.4	90.9	
DESIREE	77.9	78.5	78.2	
K EDWARD	49.9	55.1	52.5	
M PIPER	72.3	72.9		
P CROWN	91.2	91.5	72.6	
P SQUIRE	90.8		91.4	
RECORD	65.0	89.1	90.0	
KECOKD	05.0	68.7	66.8	
MEAN	76.8	78.2	77.5	
SD TREAT	NONE	CHITTED	MEAN	
VARIETY				
CARA	90.1	91.6	90.9	
DESIREE	78.9	77.5	78.2	
K EDWARD	51.4	53.5	52.5	
M PIPER	70.8	74.4		
P CROWN	91.4	91.3	91.4	
P SQUIRE	88.7	91.2		
RÈCORD	67.8	65.9	66.8	
MEAN	77.0	77.9	77.5	
SD TREAT	NONE	CHITTED	MEAN	
INOCULUM				
NONE	77.0	76.5	76.8	
RHIZOCT	77.0	79.4	78.2	
			70.2	
MEAN	77.0	77.9	77.5	
INOCULUM	NONE		RHIZOCT	
SD TREAT	NONE	CHITTED	NONE	CHITTED
VARIETY				
CARA	90.0	90.6	90.2	92.6
DESIREE	79.3	76.5	78.5	78.6
K EDWARD	50.0	49.7	52.8	57.3
M PIPER	70.0	74.5	71.5	74.3
P CROWN	91.4	91.0	91.4	91.6
P SQUIRE	89.8	91.9	87.7	90.6
RECORD	68.7	61.3	66.9	70.5
				, 0. 0

PLOT AREA HARVESTED 0.00103

#### POTATOES

### METHODS OF APPLYING FUNGICIDES TO SEED

Object: To compare spraying methods and rates of applying two fungicides to tubers on disease control and yield of potatoes - Gt. Knott II.

Sponsors: G.R. Cayley, G.A. Hide.

Design: 4 randomised blocks of 14 plots.

Whole plot dimensions: 1.5 x 9.52.

Treatments: All combinations of:-

1. FUNGCIDE Fungicides applied to seed tubers:

IMAZALIL Imazalil

TOLC MET Tolclofos methyl

2. FUNGRATE Rates of applying fungicides, per tonne of tubers:

5 g imazalil, 12.5 g tolclofos methyl 10 g imazalil, 62.5 g tolclofos methyl

3. FUNGMETH Methods of applying fungicides:

CNVNTIAL Conventional, hydraulic, sprayer in 2.0 1 per tonne of

tubers

SP DS Spinning disc sprayer in 0.8 1 per tonne of tubers SP DS ES Spinning disc sprayer with electrostatically charged

particles in 0.8 1 per tonne of tubers

plus one extra treatment:

**EXTRA** 

NONE No fungicides to seed tubers (duplicated)

Basal applications: Manures: FYM at 45 t. (10:10:15+4.5 Mg) at 1960 kg. Weedkiller: Metribuzin at 1.0 kg in 500 l. Fungicide: Fentin hydroxide at 0.28 kg in 200 l applied on seven occasions, the first and third occasion with the insecticide. Insecticide: Pirimicarb at 0.14 kg on two occasions. Desiccant: Diquat at 0.56 kg ion in 200 l.

Seed: King Edward.

Cultivations, etc:- Subsoiled, tines 45 cm deep, 76 cm apart: 6 Oct, 1983. FYM applied: 4 Nov. Ploughed: 9 Nov. NPK Mg applied, heavy spring-tine cultivated: 23 Mar, 1984. Rotary harrowed: 14 Apr. Planted by hand: 16 Apr. Weedkiller applied: 31 May. Fungicide with insecticide applied: 19 June, 17 July. Fungicide alone applied: 3 July, 30 July, 13 Aug, 28 Aug, 11 Sept. Haulm mechanically destroyed, haulm desiccant applied: 4 Oct. Lifted: 16 Oct. Previous crops: S. barley 1982, w. oats 1983.

NOTE: Assessments of stem base infections were made in mid-July.

84/R/	/D / 2						
04/K/	7/2						
TOTAL	. TUBERS T	ONNES/HECTAR	E				
****	TABLES 0	F MEANS ****	*				
	FUNGRATE	1	2	ME	AN		
	FUNGCIDE						
	IMAZALIL	30.5	32.8	31.			
	TOLC MET	29.9	29.4	29.	.7		
	MEAN	30.2	31.1	30.	.7		
	FUNGMETH FUNGCIDE	CNVNTIAL	SP DS	SP DS E	S ME	AN	
	IMAZALIL	31.5	30.5	33.	0 31	1.7	
	TOLC MET	28.9	31.5	28.		9.7	
	MEAN	30.2					
	FILAN	30.2	31.0	30.	.8 31	0.7	
	FUNGMETH FUNGRATE	CNVNTIAL	SP DS	SP DS E	S ME	AN	
	1	28.8	31.1	30.	9 30	0.2	
	2	31.6	30.9	30.	.7 31	.1	
	MEAN	30.2	31.0	30.	8 30	).7	
	FUNGRATE	1			2		
	FUNGMETH FUNGCIDE	CNVNTIAL	SP DS S	P DS ES	CNVNTIAL	SP DS SP	DS E
	IMAZALIL	29.5	29.6	32.6	33.5	31.4	33.
	TOLC MET	28.0	32.6	29.1	29.8	30.4	28.
NONE	30.7						
GRAND	MEAN	30.7					
****	STANDARD	ERRORS OF D	IFFERENC	ES OF ME	ANS ****		
TABLE		FUNGCIDE	FUNG	RATE	FUNGMETH	FUNGCIDE	
						FUNGRATE	
SED					1.21	1.39	-
TABLE		FUNGCIDE	FIING	DATE	EUNCCIDE		
,,,,,,,		FUNGCIDE FUNGMETH	FUNG		FUNGRATE FUNGMETH		
SED					2.41		
		NG NONE WITH					

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

STRATUM DF SE CV% BLOCK.WP 40 3.41 11.1

84/R/P/2

PERCENTAGE WARE 4.44 CM (1.75 INCH) RIDDLE

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

FUNGRATE FUNGCIDE	1	2	MEAN			
IMAZALIL	65.2	65.3	65.3			
TOLC MET	65.9	65.3	65.6			
MEAN	65.6	65.3	65.4			
FUNGMETH	CNVNTIAL	SP DS	SP DS ES	MEAN		
FUNGCIDE						
IMAZALIL	64.0	65.2	66.6	65.3		
TOLC MET	66.6	66.4	63.8	65.6		
MEAN	65.3	65.8	65.2	65.4		
FUNGMETH	CNVNTIAL	SP DS	SP DS ES	MEAN		
FUNGRATE	ORTHITAL	31 03	31 03 23	HEAR		
1	66.4	65.2	65.1	65.6		
2						
2	64.2	66.4	65.3	65.3		
MEAN	65.3	65.8	65.2	65.4		
			0002			
FUNGRATE	1			2		
	CNVNTIAL	SP DS SP	DS ES CNV		SP DS S	SP DS ES
FUNGCIDE	0	0. 50 0.	20 20 0111		0. 00 0	. 55 25
IMAZALIL	64.3	64.7	66.6	63.7	65.7	66.6
TOLC MET	68.5	65.6	63.7	64.7	67.2	64.0

NONE 66.5

GRAND MEAN 65.6

PLOT AREA HARVESTED 0.00120

POTATOES

SEED HEALTH

Object: To study the effects of three amounts of pests and disease control on two potato varieties grown for seed - Summerdells I.

Sponsors: R.W. Gibson, R. Harrington, G.A. Hide, G.R. Cayley, D.H. Lapwood.

Design: 2 randomised blocks of 2 plots split into 6.

Whole plot dimensions: 18.0 x 7.62.

Treatments: All combinations of:-

Whole plots

1. VARIETY Varieties:

K EDWARD King Edward M PIPER Maris Piper

Sub plots

2. PATHCONT Pest and pathogen control (in addition to basals):

STANDARD None

ENHANCED Seed treatment with tolclofos methyl at 0.24 kg and imazalil at 0.010 kg per tonne of tubers, applied by hydraulic and uncharged electrostatic sprayers

respectively. Cypermethrin at 0.04 kg with 7.0 l oil in 500 l applied by hydraulic sprayer on 31 May, 1984. Plants with 'virus' symptoms were removed on

11 June, 20 June and 5 July.

FULL As for ENHANCED plus:-

The imazalil was applied by charged electrostatic sprayer. Plants with 'blackleg' symptons were removed on 11 June, 20 June and 5 July. Permethrin at 0.10 kg with oil at 7.0 l, in 200 l for the first and last occasions and 500 l for the remainder, was applied on 15 June, 29 June, 16 July, 27 July and

(to HAULM D LATER plots only) 13 Aug.

HAULM D Dates of destroying haulm and of lifting:

EARLY Haulm mechanically destroyed, 3 Aug, 1984. Haulm

desiccant applied 6 Aug and potatoes lifted 6 Sept. Haulm mechanically destroyed 8 Sept. Haulm desiccant

annlied 22 Sent and notations lifted 11 Oct

applied 22 Sept and potatoes lifted 11 Oct.

LATER

Basal applications: Manures: (0:18:36) at 690 kg. (10:10:15+4.5 Mg) at 1960 kg. Weedkillers: Paraquat at 0.80 kg ion in 250 l on two occasions, with the linuron on the second. Linuron at 1.3 kg. Fungicide: Fentin hydroxide at 0.28 kg in 200 l on six occasions (on the fifth and sixth to HAULM D LATER only) applied with the pirimicarb on all but the fifth occasion. Insecticides: Pirimicarb at 0.14 kg on five occasions (on the fifth to HAULM D LATER only). Phorate at 1.7 kg. Haulm desiccant: BOV at 170 l.

Cultivations, etc:- Disced: 2 Sept, 1983. PK applied: 5 Sept. Paraquat applied: 23 Sept. Ploughed: 22 Dec. NPK Mg applied: 3 Apr, 1984. Rotary harrowed, potatoes planted, phorate applied: 10 Apr. Linuron with paraquat applied: 3 May. Fentin hydroxide with pirimicarb applied to all plots: 19 June, 3 July, 17 July, 30 July. Fentin hydroxide applied to HAULM D LATER plots: 13 Aug. Fentin hydroxide with pirimicarb applied to HAULM D LATER plots: 28 Aug. Previous crops: S. barley 1982 and 1983.

NOTE: Aphids were counted throughout the season. Virus and blackleg counts were made in mid-June and mid-July.

### TOTAL TUBERS TONNES/HECTARE

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

PATHCONT	STANDARD	ENHANCED	FULL	MEAN
K EDWARD	33.8	33.7	25.3	30.9
M PIPER	32.3	31.4	23.8	29.2
MEAN	33.0	32.5	24.6	30.0
HAULM D	EARLY	LATER	MEAN	
K EDWARD	24.0	37.8	30.9	
M PIPER	22.2	36.2	29.2	
MEAN	23.1	37.0	30.0	
HAULM D	EARLY	LATER	MEAN	
STANDARD	25.5	40.6	33.0	
ENHANCED	25.1	39.9	32.5	
FULL	18.7	30.4	24.6	
MEAN	23.1	37.0	30.0	

TOTAL TUBERS TONNES/HECTARE

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

PATHCONT	STANDARD	E	NHANCED		FULL	
HAULM D	EARLY	LATER	EARLY	LATER	EARLY	LATER
VARIETY						
K EDWARD	26.3	41.3	26.5	40.8	19.3	31.2
M PIPER	24.7	39.9	23.8	39.1	18.0	29.6

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

TABLE	PATHCONT	HAULM D	VARIETY* PATHCONT
SED	1.51	1.23	2.14
TABLE	VARIETY* HAULM D	PATHCONT HAULM D	VARIETY* PATHCONT HAULM D
SED	1.75	2.14	3.02

<sup>\*</sup> WITHIN THE SAME LEVEL OF VARIETY ONLY

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	10	3.02	10.1

84/R/P/3
PERCENTAGE WARE 4.44CM (1.75 INCH) RIDDLE

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

PATHCONT	STANDARD	ENHANCED	FULL	MEAN	ı	
K EDWARD	65.8	59.6	57.0	60.8	1	
M PIPER	51.8	48.5	35.9	45.4		
MEAN	58.8	54.1	46.4	53.1		
HAULM D VARIETY	EARLY	LATER	MEAN			
K EDWARD	52.1	69.5	60.8			
M PIPER	34.4	56.5	45.4			
MEAN	43.2	63.0	53.1			
HAULM D PATHCONT	EARLY	LATER	MEAN			
STANDARD	49.0	68.6	58.8			
ENHANCED	41.3	66.8				
FULL	39.4	53.5	46.4			
MEAN	43.2	63.0	53.1			
PATHCONT	STANDARD	ENHANCED			FULL	
HAULM D VARIETY	EARLY	LATER	EARLY	LATER	EARLY	LATER
K EDWARD	57.5	74.1	51.4	67.8	47.4	66.5
M PIPER	40.5	63.1	31.3	65.8	31.4	40.5

SUB PLOT AREA HARVESTED 0.00457