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ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1987

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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

87/R/P/2

POTATOES

SEED HEALTH PROGENY

Object: To compare the health and yield of two varieties of potatoes grown once or twice for seed at Rothamsted under three sets of treatments with the same varieties grown to AA standard in Scotland in 1986 - Bones Close.

Sponsors: R.W. Gibson, G.A. Hide, R. Harrington.

Design: 4 randomised blocks of 28 plots.

Whole plot dimensions: 1.5 x 19.0.

Treatments: All combinations of:-

- | | |
|-----------------|--|
| 1. VARIETY | Varieties: |
| EDWARD | King Edward |
| PIPER | Maris Piper |
| 2. ROTHGROW | Frequency of cropping at Rothamsted: |
| ONCE | In 1986 only from Scottish FS seed |
| TWICE | In 1985 and 1986, from Scottish FS seed in 1985 |
| 3. PATHCONT[86] | Pest and pathogen control in 1985, to ROTHGROW TWICE only, and in 1986 to ROTHGROW ONCE and TWICE (in addition to basals): |
| STANDARD | 1985 and 1986: Plants with virus symptoms were removed in June. |
| ENHANCED | 1985 and 1986: Seed treatment with tolclofos methyl at 0.24 kg and imazalil at 0.01 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 14 June, 1985, and on 13 and 19 June, 1986. Plants with virus symptoms were removed in June 1985 and 1986. |
| FULL | 1985: As for ENHANCED 1985, plus:-
The imazalil was applied by charged electrostatic sprayer. Cypermethrin at 0.04 kg with 7.0 l oil in 500 l was also applied on 28 June, 11 July, 26 July and (to HAULM D LATER plots only) 14 Aug.
1986: As for ENHANCED 1986, plus:-
The imazalil was applied by charged electrostatic sprayer. Cypermethrin at 0.04 kg with oil at 7.0 l in 500 l was also applied on 3 July, 18 July, 1 Aug, 19 Aug and (to HAULM D LATER plots only) 4 Sept. |

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4. HAULM D[86] Dates of destroying haulm and of lifting in 1985 to ROTHGROW TWICE only and in 1986 to ROTHGROW ONCE and TWICE:
- EARLY 1985: Haulm mechanically destroyed, 12 Aug. Haulm desiccant applied 14 Aug and potatoes lifted 18 Sept.
 1986: Haulm desiccant applied 29 Aug. Haulm mechanically destroyed 16 Sept and potatoes lifted 23 Sept.
- LATER 1985: Haulm mechanically destroyed 4 Sept. Haulm desiccant applied 5 Sept and potatoes lifted 11 Oct.
 1986: Haulm mechanically destroyed 25 Sept. Haulm desiccant applied 27 Sept and potatoes lifted 13 Oct.

plus two extra treatments:

SCOTS AA

KE SAA King Edward Scottish AA seed bought in 1987 (duplicated)

MP SAA Maris Piper Scottish AA seed bought in 1987 (duplicated)

- NOTES: (1) Basal pest and pathogen control in 1985 (to ROTHGROW TWICE only) was phorate at 1.7 kg with the seed and mancozeb at 1.4 kg in 200 l on five occasions applied with pirimicarb at 0.14 kg on all but the first occasion.
- (2) Basal pest and pathogen control in 1986 was phorate at 1.7 kg with the seed, mancozeb at 1.4 kg in 200 l on four occasions with pirimicarb at 0.14 kg on each occasion and (to HAULM D LATER plots only) fentin hydroxide at 0.28 kg in 200 l on two occasions applied with pirimicarb at 0.14 kg on the first.

Basal applications: Manures: FYM at 35 t. (0:18:36) at 690 kg. (10:10:15+4.5 Mg) at 1960 kg. Weedkillers: Linuron at 1.6 kg and paraquat at 0.50 kg ion in 500 l. Fungicides: Mancozeb at 1.4 kg in 200 l on four occasions, applied with the pirimicarb on the second occasion. Fentin hydroxide at 0.28 kg in 200 l on two occasions. Insecticide: Pirimicarb at 0.14 kg. Haulm desiccant: Diquat at 0.80 kg ion in 300 l.

Cultivations, etc.: (0:18:36) applied: 28 Oct, 1986. FYM applied: 11 Nov. Ploughed: 21 Nov. (10:10:15+4.5 Mg) applied: 13 Apr, 1987. Rotary harrowed: 20 Apr. Potatoes planted by hand: 21 Apr. Rotary ridged: 27 Apr. Weedkillers applied: 8 May. Mancozeb applied: 24 June, 8 July, 28 July and 10 Aug. Pirimicarb applied: 8 July. Fentin hydroxide applied: 28 Aug, 9 Sept. Haulm desiccant applied: 21 Sept. Haulm mechanically destroyed: 26 Sept. Lifted: 29 Oct. Previous crops: S. barley 1985, w. beans 1986.

NOTE: Viruses were assessed during the season. Tuber samples were taken at harvest to assess storage diseases.

87/R/P/2

TOTAL TUBERS TONNES/HECTARE

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

ROTHGROW	ONCE	TWICE	Mean	
VARIETY				
EDWARD	76.4	77.9	77.1	
PIPER	84.6	81.2	82.9	
Mean	80.5	79.5	80.0	
PATHCONT[86]	STANDARD	ENHANCED	FULL	Mean
VARIETY				
EDWARD	76.9	76.9	77.7	77.1
PIPER	83.3	82.2	83.0	82.9
Mean	80.1	79.5	80.4	80.0
PATHCONT[86]	STANDARD	ENHANCED	FULL	Mean
ROTHGROW				
ONCE	80.8	80.4	80.2	80.5
TWICE	79.4	78.7	80.5	79.5
Mean	80.1	79.5	80.4	80.0
HAULM D[86]	EARLY	LATER	Mean	
VARIETY				
EDWARD	78.5	75.8	77.1	
PIPER	83.3	82.4	82.9	
Mean	80.9	79.1	80.0	
HAULM D[86]	EARLY	LATER	Mean	
ROTHGROW				
ONCE	81.4	79.5	80.5	
TWICE	80.4	78.6	79.5	
Mean	80.9	79.1	80.0	
HAULM D[86]	EARLY	LATER	Mean	
PATHCONT[86]				
STANDARD	81.3	78.9	80.1	
ENHANCED	80.0	79.0	79.5	
FULL	81.4	79.3	80.4	
Mean	80.9	79.1	80.0	
VARIETY	PATHCONT[86]	STANDARD	ENHANCED	FULL
EDWARD	ROTHGROW			
	ONCE	76.5	76.8	75.9
	TWICE	77.2	77.0	79.5
PIPER	ONCE	85.2	84.0	84.5
	TWICE	81.5	80.4	81.5

87/R/P/2

TOTAL TUBERS TONNES/HECTARE

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

		HAULM D[86]	EARLY	LATER
VARIETY	ROTHGROW			
EDWARD	ONCE		77.3	75.5
	TWICE		79.7	76.1
PIPER	ONCE		85.6	83.5
	TWICE		81.1	81.2
		HAULM D[86]	EARLY	LATER
VARIETY	PATHCONT[86]			
EDWARD	STANDARD		80.2	73.5
	ENHANCED		77.1	76.7
	FULL		78.2	77.1
PIPER	STANDARD		82.3	84.3
	ENHANCED		83.0	81.3
	FULL		84.6	81.5
		HAULM D[86]	EARLY	LATER
ROTHGROW	PATHCONT[86]			
ONCE	STANDARD		82.4	79.3
	ENHANCED		80.8	80.0
	FULL		81.1	79.3
TWICE	STANDARD		80.2	78.5
	ENHANCED		79.3	78.1
	FULL		81.7	79.3
		HAULM D[86]	EARLY	LATER
VARIETY	ROTHGROW	PATHCONT[86]		
EDWARD	ONCE	STANDARD	80.1	72.9
		ENHANCED	75.9	77.7
		FULL	75.9	75.9
	TWICE	STANDARD	80.4	74.1
		ENHANCED	78.2	75.8
		FULL	80.6	78.4
PIPER	ONCE	STANDARD	84.6	85.7
		ENHANCED	85.7	82.3
		FULL	86.4	82.6
	TWICE	STANDARD	80.0	83.0
		ENHANCED	80.4	80.4
		FULL	82.8	80.3
SCOTS AA	KE SAA	MP SAA	Mean	
	67.5	78.3	72.9	
Grand mean	79.0			

87/R/P/2

TOTAL TUBERS TONNES/HECTARE

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

Table	VARIETY	ROTHGROW	PATHCONT[86]	HAULM D[86]
s.e.d.	0.71	0.71	0.87	0.71

Table	VARIETY ROTHGROW	VARIETY PATHCONT[86]	ROTHGROW PATHCONT[86]	VARIETY HAULM D[86]
s.e.d.	1.01	1.23	1.23	1.01

Table	ROTHGROW HAULM D[86]	PATHCONT[86] HAULM D[86]	VARIETY ROTHGROW PATHCONT[86]	VARIETY ROTHGROW HAULM D[86]
s.e.d.	1.01	1.23	1.74	1.42

Table	VARIETY PATHCONT[86] HAULM D[86]	ROTHGROW PATHCONT[86] HAULM D[86]	VARIETY ROTHGROW PATHCONT[86] HAULM D[86]	SCOTS AA
s.e.d.	1.74	1.74	2.46	1.74

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	83	3.48	4.4

87/R/P/2

PERCENTAGE WARE 4.44 CM (1.75 INCH) RIDDLE

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

ROTHGROW	ONCE	TWICE	Mean	
VARIETY				
EDWARD	81.9	81.3	81.6	
PIPER	83.7	83.5	83.6	
Mean	82.8	82.4	82.6	
PATHCONT[86]	STANDARD	ENHANCED	FULL	Mean
VARIETY				
EDWARD	82.1	80.1	82.7	81.6
PIPER	83.6	82.5	84.6	83.6
Mean	82.8	81.3	83.6	82.6
PATHCONT[86]	STANDARD	ENHANCED	FULL	Mean
ROTHGROW				
ONCE	82.7	81.9	83.8	82.8
TWICE	83.0	80.7	83.4	82.4
Mean	82.8	81.3	83.6	82.6
HAULM D[86]	EARLY	LATER	Mean	
VARIETY				
EDWARD	82.3	81.0	81.6	
PIPER	83.5	83.7	83.6	
Mean	82.9	82.3	82.6	
HAULM D[86]	EARLY	LATER	Mean	
ROTHGROW				
ONCE	83.5	82.1	82.8	
TWICE	82.2	82.6	82.4	
Mean	82.9	82.3	82.6	
HAULM D[86]	EARLY	LATER	Mean	
PATHCONT[86]				
STANDARD	83.8	81.9	82.8	
ENHANCED	81.1	81.5	81.3	
FULL	83.7	83.5	83.6	
Mean	82.9	82.3	82.6	
VARIETY	PATHCONT[86]	STANDARD	ENHANCED	FULL
EDWARD	ROTHGROW			
	ONCE	82.3	81.1	82.3
	TWICE	81.8	79.1	83.1
PIPER	ONCE	83.0	82.6	85.4
	TWICE	84.2	82.4	83.8

87/R/P/2

PERCENTAGE WARE 4.44 CM (1.75 INCH) RIDDLE

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

VARIETY	HAULM D[86] ROTHGROW	EARLY	LATER
EDWARD	ONCE	82.9	80.9
	TWICE	81.6	81.0
PIPER	ONCE	84.2	83.2
	TWICE	82.8	84.2

VARIETY	HAULM D[86] PATHCONT[86]	EARLY	LATER
EDWARD	STANDARD	84.0	80.1
	ENHANCED	79.9	80.3
	FULL	82.9	82.5
PIPER	STANDARD	83.5	83.7
	ENHANCED	82.3	82.8
	FULL	84.6	84.6

ROTHGROW	HAULM D[86] PATHCONT[86]	EARLY	LATER
ONCE	STANDARD	84.1	81.3
	ENHANCED	82.9	80.8
	FULL	83.5	84.1
TWICE	STANDARD	83.4	82.5
	ENHANCED	79.3	82.2
	FULL	83.9	83.0

VARIETY	ROTHGROW	HAULM D[86] PATHCONT[86]	EARLY	LATER
EDWARD	ONCE	STANDARD	84.2	80.5
		ENHANCED	82.1	80.2
		FULL	82.4	82.1
	TWICE	STANDARD	83.9	79.7
		ENHANCED	77.7	80.4
		FULL	83.3	82.8
PIPER	ONCE	STANDARD	84.1	82.0
		ENHANCED	83.8	81.5
		FULL	84.7	86.1
	TWICE	STANDARD	83.0	85.4
		ENHANCED	80.8	84.0
		FULL	84.5	83.1

SCOTS AA KE SAA MP SAA Mean
 84.8 85.1 84.9

Grand mean 82.9

PLOT AREA HARVESTED 0.00286

87/W/P/2

POTATOES

VARIETIES AND CONTROL OF GLOBODERA PALLIDA

Object: To study the effects of rates of nematicide on seven varieties of potato differing in their resistance to the pale cyst nematode (*Globodera pallida*) - Woburn Far Field II.

Sponsor: A.G. Whitehead.

Design: 3 randomised blocks of 21 plots.

Whole plot dimensions: 3.0 x 4.6.

Treatments: All combinations of:-

1. VARIETY Varieties:

CAXTON
DESIREE
FINGAL
GLENN
MORAG
ROMANO
SANTE

2. OXAMYL Rates of oxamyl (kg):

0.0
2.8
5.6

Basal applications: Manures: (10:10:15+4.5 Mg) at 2290 kg. Weedkiller: Linuron at 1.6 kg in 200 l. Fungicides: Mancozeb at 1.4 kg in 200 l on four occasions applied with the insecticide on the second. 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.: - Spring-tine cultivated: 30 Jan, 1987 and 16 Feb. NPK Mg applied: 22 Apr. Oxamyl applied, rotary cultivated and potatoes planted: 28 Apr. Rotary ridged: 15 May. Weedkiller applied: 25 May. Mancozeb applied: 24 June, 26 July, 5 Aug. Mancozeb and pirimicarb applied: 8 July. Fentin hydroxide applied: 18 Aug, 4 Sept. Desiccant applied: 18 Sept. Haulm mechanically destroyed: 1 Oct. Lifted: 5 Oct. Previous crops: Potatoes 1985 and 1986.

NOTE: Soil samples were taken before applying nematicide and after harvest for cyst and egg counts of *G. pallida*.

87/W/P/2

TOTAL TUBERS TONNES/HECTARE

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

OXAMYL VARIETY	0.0	2.8	5.6	Mean
CAXTON	42.2	52.4	49.7	48.1
DESIREE	29.4	50.1	51.7	43.7
FINGAL	45.9	65.7	64.6	58.7
GLENNA	47.9	59.3	58.8	55.3
MORAG	46.2	56.1	58.7	53.7
ROMANO	18.4	40.9	44.4	34.6
SANTE	31.1	53.9	48.7	44.5
Mean	37.3	54.1	53.8	48.4

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

Table	VARIETY	OXAMYL	VARIETY OXAMYL
s.e.d.	3.36	2.20	5.81

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	40	7.12	14.7

PERCENTAGE WARE 4.44CM (1.75 INCH) RIDDLE

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

OXAMYL VARIETY	0.0	2.8	5.6	Mean
CAXTON	93.7	87.5	87.7	89.6
DESIREE	85.3	95.2	92.0	90.8
FINGAL	91.1	95.5	93.2	93.3
GLENNA	97.1	96.7	95.9	96.5
MORAG	91.3	92.5	92.8	92.2
ROMANO	86.7	93.7	94.1	91.5
SANTE	91.1	94.8	93.0	93.0
Mean	90.9	93.7	92.7	92.4

PLOT AREA HARVESTED 0.00070

87/R/P/4

POTATOES

EFFECTS OF SEED TUBER TREATMENTS

Object: To study the effects of seed tuber health, size and fungicide treatment on crop growth, yield and quality of potatoes after storage - Little Hoos.

Sponsor: K.J. Boorer.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 6.0 x 12.2.

Treatments: All combinations of:-

1. SEED STK Seed stock:
 STOCK A
 STOCK B
2. SIZE Size of seed tubers:
 SMALL 25 - 55 g
 LARGE 100 - 160 g
3. FUNGICIDE Fungicide to seed tubers:
 NONE None
 TOL+IMAZ Tolclofos methyl plus imazalil

NOTES: (1) The fungicide treatments were applied as a dip in a mixture containing 0.5 % tolclofos methyl and 0.05 % imazalil.
(2) It was intended that on STOCK A there would be few tuber borne diseases at planting and on STOCK B many. In practice the differences were slight and varied with particular pathogens.

Basal applications: Manures: Chalk at 5.0 t. FYM at 35 t. (0:18:36) at 690 kg. (10:10:15+4.5 Mg) at 1960 kg. Weedkillers: Linuron at 1.6 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 pirimicarb 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.

Seed: Estima.

Cultivations, etc.:- (0:18:36) applied: 17 Sept, 1986. Chalk applied: 24 Sept. FYM applied: 12 Nov. Ploughed: 17 Nov. (10:10:15+4.5 Mg) applied: 14 Apr, 1987. Rotary harrowed: 21 Apr. Potatoes planted: 22 Apr. Rotary ridged: 29 Apr. Weedkillers applied: 8 May. Mancozeb applied: 24 June, 28 July and 10 Aug. Mancozeb and pirimicarb applied: 8 July. Fentin hydroxide applied: 28 Aug, 9 Sept. Desiccant applied: 21 Sept. Haulm mechanically destroyed: 26 Sept. Lifted: 28 Sept and 10 Nov. Previous crops: W. barley 1985, w. oilseed rape 1986.

87/R/P/4

NOTE: Emergence and ground cover percentages were recorded. Samples were taken on six occasions, from late June to early September, for measurements of haulm weight, leaf area, weight and disease assessments of stem bases and tubers.

TOTAL TUBERS TONNES/HECTARE

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

SIZE	SMALL	LARGE	Mean
SEED STK			
STOCK A	65.3	57.9	61.6
STOCK B	58.1	57.4	57.7
Mean	61.7	57.6	59.7
FUNGCIDE	NONE	TOL+IMAZ	Mean
SEED STK			
STOCK A	60.8	62.4	61.6
STOCK B	56.7	58.8	57.7
Mean	58.7	60.6	59.7
FUNGCIDE	NONE	TOL+IMAZ	Mean
SIZE			
SMALL	62.9	60.5	61.7
LARGE	54.6	60.7	57.6
Mean	58.7	60.6	59.7
SEED STK	FUNGCIDE	NONE	TOL+IMAZ
STOCK A	SIZE		
	SMALL	66.0	64.6
	LARGE	55.6	60.2
STOCK B	SMALL	59.7	56.4
	LARGE	53.6	61.2

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

Table	SEED STK	SIZE	FUNGCIDE	SEED STK
s.e.d.	2.56	2.56	2.56	SIZE 3.63
Table	SEED STK	SIZE	SEED STK	
s.e.d.	FUNGCIDE	FUNGCIDE	SIZE FUNGCIDE	5.13
	3.63	3.63		

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	14	6.28	10.5
PLOT AREA HARVESTED	SIZE SMALL	0.00018	
PLOT AREA HARVESTED	SIZE LARGE	0.00030	
PERCENTAGE WARE NOT RECORDED			