

## Technical Assistants

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## Acknowledgement

We appreciate the assistance provided by the Ontario Vegetable Growers' Marketing Board and the Ontario Food Processors Association to support the vegetable research program at RCAT.

We also appreciate the cooperation of our farmer cooperators who have provided the land and assisted in working the land and applying the herbicides and fertilizer.

We also want to recognize the help of the technicians and summer students who have made these trials a success.

It is our hope that the information provided by this research **will** benefit vegetable production in Ontario.

S.A. Loewen

P.H. Sikkema

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*1989 Research Projects - S.A. Loewen*

*A. Tomato Breeding and Cultivar Evaluation*

*The primary objective of the tomato breeding and cultivar evaluation research at RCAT is to develop and introduce high yielding tomato cultivars suitable for wholepack processing. Cultivar screening is done at RCAT and multilocation trials are conducted at four grower locations in Kent and Essex counties.*

*1. Stage 111 and Stage N Ontario Tomato Performance Trial*

*Entries:       Stage N status Ohio 7983  
                  Stage III status Ont 871  
                                  PSR 2196  
                                  PSR 2296  
                                  PSX P 696  
                  Check               Ohio 7814*

*Locations: RCAT - trial in both single and twin rows.*

*HRS (Harrow)  
HES (Simcoe)  
Farm of B. Mailloux (Tilbury)  
Farm of G. Bicrel (Stoney Point)  
Farm of M. Denys (Wallaceburg)  
Farm of R. Kettle (Leamington)*

*2. Stage 11 Ontario Tomato Performance Trial*

*Entries: 28*

*3. Stage I Ontario Tomato Performance Trial*

*Entries: 30*

*4. 1989 Fresh Market Tomato Observation Trial*

*Entries: 63*

*5. 1989 Tomato Accession Observation Trial*

*Entries: 493*

*6. 1989 ADI Tomato Demonstration*

*Entries: 130*

*7. 1989 F1 Tomato Evaluation Trial*

*Entries: 451*

*8. 1989 F7 Tomato Breeding Trial*

*Entries: 13*

*9. 1989 F6 Tomato Breeding Trial*

*Entries: 49*

*10. 1989 F5 Tomato Breeding Trial*

*Entries: 127*

*11. 1989 F4 Tomato Breeding Trial*

*Entries: 3*

*12. 1989 F3 Tomato Breeding Trial*

*Entries: 6*

*13. 1989 F2 Tomato Breeding Trial*

*Entries: 169*

***B. Sweet Pepper Breeding and Cultivar Evaluation***

*The primary objective of the sweet pepper breeding is to develop and introduce cultivars specifically suited for processing.*

*1. 1989 Sweet Pepper Cultivar Advanced Trial*

*Entries: 10*

*2. 1989 Sweet Pepper Cultivar Observation Trial*

*Entries: 10*

*3. 1989 Sweet Pepper Cultivar Screening Trial*

*Entries: 69*

*4. 1989 Sweet Pepper Cultivar Evaluation Trial*

*Entries: 180*

*5. 1989 Sweet Pepper Inbred Observation Trial*

*Entries: 101*

*6. 1989 F9 Sweet Pepper Breeding Trial*

*Entries: 31*

*7. 1989 F8 Sweet Pepper Breeding Trial*

*Entries: 12*

*8. 1989 F6 Sweet Pepper Breeding Trial*

*Entries: 7*

*9. 1989 F5 Sweet Pepper Breeding Trial*

*Entries: 26*

*10. 1989 F4 Sweet Pepper Breeding Trial*

*Entries: 15*

*11. 1989 F3 Sweet Pepper Breeding Trial*

*Entries: 42*

*12. 1989 F2 Sweet Pepper Breeding Trial*

*Entries: 98*

***C. Hot Pepper Breeding and Cultivar Evaluation***

*The primary objective of the hot pepper breeding and cultivar evaluation work is to develop and introduce hot pepper cultivars for processing.*

*1. 1989 Hot Pepper Cultivar Trial*

*Entries: 52*

*2. 1989 Hot Pepper Inbred Observation Trial*

*Entries: 14*

*3. 1989 F8 Hot Pepper Breeding Trial*

*Entries: 2*

*4. 1989 F6 Hot Pepper Breeding Trial*

*Entries: 11*

*5. 1989 F5 Hot Pepper Breeding Trial*

*Entries: 2*

*6. 1989 F3 Hot Pepper Breeding Trial*

*Entries: 13*

*D. Supersweet Sweet Corn Cultivar Evaluation*

*One Screening trial with 26 entries was planted this year with the main objective of identifying new cultivars suitable for processing and adapted to Southwest Ontario growing conditions.*

TITLE : THE EFFECT OF STARTER FERTILIZER RATE AND PLACEMENT ON THE ESTABLISHMENT AND YIELD OF SUMMER CRISP SWEET CORN

EXPERIMENT NUMBER : SWEET CORN # 1

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : METHOD OF APPLICATION SUB-PLOTS : FERTILIZER RATE
REPLICATIONS : 4 NUMBER OF TREATMENTS : 15
PLOT SIZE : 4 ROWS (75 CM) x 8.0 M TOTAL AREA : 45.0 M x 32.0 M (1440 M SQ)
CULTIVAR : SUMMER CRISP LOCATION : RIDGETOWN
PLANTING DENSITY : 100,000 PLANTS/HA (40,000 PLANTS/ACRE) FINAL PLANT STAND : 50,000 PLANTS/HA (20,000 PLANTS/ACRE)
SEEDS PER ROW : 60 FINAL PLANTS/ROW : 30 (26 CM BETWEEN PLANTS)
TOTAL SEEDS REQUIRED : 14,400 PLANTING DISTANCE/PLOT : 9.0 M

Table with columns: TREATMENT NUMBER, CULTIVAR, STARTER FERTILIZER, FERTILIZER RATE (KG/HA), FERTILIZER RATE (P205, K20), METHOD OF APPLICATION. Rows 1-14 showing various treatments for Summer Crisp corn.

MATERIALS AND METHODS : WEED CONTROL - SUTAN+ (4.0 KG/HA) + BLADEX (2.0 KG/HA) PREPLANT INCORPORATED
INSECT CONTROL - POUNCE (375 MLS/HA) AT 7 DAY INTERVALS
NITROGEN FERTILIZER - UREA (250 KG/HA) BROADCAST INCORPORATED

ASSESSMENTS : PLANT STAND COUNTS - 7 AND 14 DAYS AFTER PLANTING AND PRIOR TO THINNING
PLANT DEVELOPMENT - 7 AND 14 DAYS AFTER PLANTING AND PRIOR TO THINNING
THIN PLANTS TO 50,000 PLANTS/HA WHEN IN THE SIX LEAF STAGE
MATURITY RATINGS : DAYS TO 50% SILKING - DAYS AFTER PLANTING
CORN HEAT UNITS - DAILY METEOROLOGICAL DATA
DISEASE RATINGS : AS REQUIRED (SHOOT AND RUST)
LODGING RATINGS : 1 AT HARVEST

QUALITY AND YIELD ASSESSMENTS : TO BE COMPLETED 22 DAYS AFTER 50% SILKING - 5 COBS PER PLOT

- COB LENGTH (CM) - HUSK OFF
COB WIDTH (CM) - HUSK OFF
KERNEL DEPTH (MM)
TIP COVER (1-5)
FRESH KERNEL WEIGHT (KG/HA) - CORN CUTTER
PERCENT MOISTURE - MOISTURE METER
PERCENT KERNEL DRY WEIGHT - MICROWAVE
EAR WEIGHT (KG/HA) - ONE COMPLETE ROW

Handwritten note: Total weight of usable cobs

Handwritten notes: Ear height, Plant height

TITLE : THE EFFECT OF STARTER FERTILIZER RATE AND PLACEMENT  
ON THE ESTABLISHMENT AND YIELD OF SUPER SWEET JUBILEE SWEET CORN

EXPERIMENT NUMBER : SWEET CORN # 2

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS :	METHOD OF APPLICATION	SUB-PLOTS :	FERTILIZER RATE
REPLICATIONS :	4	NUMBER OF TREATMENTS :	15
PLOT SIZE :	4 ROWS (75 CM) x 8.0 M	TOTAL AREA :	45.0 M x 32.0 M (1440 M SQ)
CULTIVAR :	SUPER SWEET JUBILEE	LOCATION :	RIDGETOWN
PLANTING DENSITIES :	100,000 PLANTS/HA (40,000 PLANTS/ACRE)	FINAL PLANT STAND :	50,000 PLANTS/HA (20,000 PLANTS/ACRE)
SEEDS PER ROW :	60	FINAL PLANTS/ROW :	30 (26 CM BETWEEN PLANTS)
TOTAL SEEDS REQUIRED :	14,400	PLANTING DISTANCE/PLOT :	9.0 M

TREATMENT NUMBER	CULTIVAR	STARTER FERTILIZER	FERTILIZER RATE (KG/HA)	FERTILIZER RATE		METHOD OF APPLICATION
				P205	K20	
1	S S JUBILEE	6-24-24	0	0	0	
2	S S JUBILEE	6-24-24	100	24	24	BROADCAST
3	S S JUBILEE	6-24-24	200	48	48	BROADCAST
4	S S JUBILEE	6-24-24	300	72	72	BROADCAST
5	S S JUBILEE	6-24-24	400	36	36	BROADCAST
6	S S JUBILEE	6-24-24	0	0	0	
7	S S JUBILEE	6-24-24	100	24	24	IN FURROW
8	S S JUBILEE	6-24-24	200	48	48	IN FURROW
9	SSJUBILEE	6-24-24	300	72	72	IN FURROW
10	S S JUBILEE	6-24-24	400	96	96	IN FURROW
11	SSJUBILEE	6-24-24	0	0	0	
12	S S JUBILEE	6-24-24	100	24	24	OFFSET
13	S S JUBILEE	6-24-24	200	48	48	OFFSET
14	S S JUBILEE	6-24-24	300	72	72	OFFSET
15	S S JUBILEE	6-24-24	400	36	36	OFFSET

MATERIALS AND METHODS : WEED CONTROL - SUTAN+ (4.0 KG/HA) + BLADEX (2.0 KG/HA) PREPLANT INCORPORATED  
INSECT CONTROL - POUNCE (375 MLS/HA) AT 7 DAY INTERVALS  
NITROGEN FERTILIZER - UREA (250 KG/HA) BROADCAST INCORPORATED

ASSESSMENTS : PLANT STAND COUNTS - 7 AND 14 DAYS AFTER PLANTING AND PRIOR TO THINNING  
PLANT DEVELOPMENT - 7 AND 14 DAYS AFTER PLANTING AND PRIOR TO THINNING  
THIN PLANTS TO 50,000 PLANTS/HA WHEN IN THE SIX LEAF STAGE  
MATURITY RATINGS : DAYS TO 50% SILKING - DAYS AFTER PLANTING  
CORN HEAT UNITS - DAILY METEOROLOGICAL DATA  
DISEASE RATINGS : AS REWIRED (SHUT AND RUST)  
LODGING RATINGS : % AT HARVEST  
QUALITY AND  
YIELD ASSESSMENTS : TO BE COMPLETED 21 DAYS AFTER 50% SILKING - 5 COBS PER PLOT  
COB LENGTH (CM) - HUSK OFF  
COB WIDTH (CM) - HUSK OFF  
KERNEL DEPTH (MM)  
TIP COVER (1-5)  
FRESH KERNEL WEIGHT (KG/HA) - CORN CUTTER  
PERCENT MOISTURE - MOISTURE METER  
PERCENT KERNEL DRY WEIGHT - MICROWAVE  
EAR WEIGHT (KG/HA) - ONE COMPLETE ROW



TITLE : THE EFFECT OF STARTER FERTILIZER RATE AND PLACEMENT  
ON THE ESTABLISHMENT AND YIELD OF SUMMER CRISP SWEET CORN

EXPERIMENT NUMBER : SWEET CORN # 3

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS :	METHOD OF APPLICATION	SUB-PLOTS :	FERTILIZER RATE
REPLICATIONS :	4	NUMBER OF TREATMENTS :	15
PLOT SIZE :	4 ROWS (75 CM) x 8.0 M	TOTAL AREA :	45.0 M x 32.0 M (1440 M SQ)
CULTIVAR :	SUMMER CRISP	LOCATION :	DRESDEN
PLANTING DENSITY :	100,000 PLANTS/HA (40,000 PLANTS/ACRE)	FINAL PLANT STAND :	50,000 PLANTS/HA (20,000 PLANTS/ACRE)
SEEDS PER ROW :	60	FINAL PLANTS/ROW :	30 (26 CM BETWEEN PLANTS)
TOTAL SEEDS REQUIRED :	14,400	PLANTING DISTANCE/PLOT :	9.0 M

TREATMENT NUMBER	CULTIVAR	STARTER FERTILIZER	FERTILIZER RATE (KG/HA)	FERTILIZER RATE		METHOD OF APPLICATION
				P205	K20	
1	SUMMER CRISP	6-24-24	0	0	0	
2	SUMMER CRISP	6-24-24	100	24	24	BROADCAST
3	SUMMER CRISP	6-24-24	200	48	48	BROADCAST
4	SUMMER CRISP	6-24-24	300	72	72	BROADCAST
5	SUMMER CRISP	6-24-24	400	96	96	BROADCAST
6	SUMMER CRISP	6-24-24	0	0	0	
7	SUMMER CRISP	6-24-24	100	24	24	IN FURROW
8	SUMMER CRISP	6-24-24	200	48	48	IN FURROW
9	SUMMER CRISP	6-24-24	300	72	72	IN FURROW
10	SUMMER CRISP	6-24-24	400	96	96	IN FURROW
11	SUMMER CRISP	6-24-24	0	0	0	
12	SUMMER CRISP	6-24-24	100	24	24	OFFSET
13	SUMMER CRISP	6-24-24	200	48	48	OFFSET
14	SUMMER CRISP	6-24-24	300	72	72	OFFSET
15	SUMMER CRISP	6-24-24	400	96	96	OFFSET

MATERIALS AND METHODS : WEED CONTROL - SUTAN+ (4.0 KG/HA) + BLADEX (2.0 KG/HA) PREPLANT INCORPORATED  
INSECT CONTROL - POUNCE (375 MLS/HA) AT 7 DAY INTERVALS  
NITROGEN FERTILIZER - UREA (250 KG/HA) BROADCAST INCORPORATED

ASSESSMENTS :

- PLANT STAND COUNTS - 7 AND 14 DAYS AFTER PLANTING AND PRIOR TO THINNING
- PLANT DEVELOPMENT - 7 AND 14 DAYS AFTER PLANTING AND PRIOR TO THINNING
- THIN PLANTS TO 50,000 PLANTS/HA WHEN IN THE SIX LEAF STAGE
- MATURITY RATINGS : DAYS TO 50% SILKING - DAYS AFTER PLANTING
- CORN HEAT UNITS - DAILY METEOROLOGICAL DATA
- DISEASE RATINGS : AS REQUIRED (SHOOT AND RUST)
- LODGING RATINGS : 2 AT HARVEST
- QUALITY AND
- YIELD ASSESSMENTS : TO BE COMPLETED 21 DAYS AFTER 50% SILKING - 5 COBS PER PLOT
- COB LENGTH (CM) - HUSK OFF
- COB WIDTH (CM) - HUSK OFF
- KERNEL DEPTH (MM)
- TIP COVER (1-5)
- FRESH KERNEL WEIGHT (KG/HA) - CORN CUTTER
- PERCENT MOISTURE - MOISTURE METER
- PERCENT KERNEL DRY WEIGHT - MICROWAVE
- EAR WEIGHT (KG/HA) - ONE COMPLETE ROW

TITLE : THE EFFECT OF STARTER FERTILIZER RATE AND PLACEMENT  
ON THE ESTABLISHMENT AND YIELD OF SUPER SWEET JUBILEE SWEET CORN

EXPERIMENT NUMBER : SWEET CORN # 4

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS :	METHOD OF APPLICATION	SUB-PLOTS :	FERTILIZER RATE
REPLICATIONS :	4	NUMBER OF TREATMENTS :	15
PLOT SIZE :	4 ROWS (75 CM) * 8.0 M	TOTAL AREA :	45.0 M * 32.0 M (1440 M SQ)
CULTIVAR :	SUPER SWEET JUBILEE	LOCATION :	DRESDEN
PLANTING DENSITY :	100,000 PLANTS/HA (40,000 PLANTS/ACRE)	FINAL PLANT STAND :	50,900 PLANTS/HA (20,000 PLANTS/ACRE)
SEEDS PER ROW :	60	FINAL PLANTS/ROW :	30 CM BETWEEN PLANTS
TOTAL SEEDS REQUIRED :	14,400	PLANTING DISTANCE/PLOT :	3.0 M

TREATMENT NUMBER	CULTIVAR	STARTER FERTILIZER	FERTILIZER RATE	FERTILIZER RATE		METHOD OF APPLICATION
			(KG/HA)	P205	K20	
1	S S JUBILEE	6-24-24	0	0	0	
2	S S JUBILEE	6-24-24	100	24	24	BROADCAST
3	S S JUBILEE	6-24-24	200	48	48	BROADCAST
4	S S JUBILEE	6-24-24	300	72	72	BROADCAST
5	S S JUBILEE	6-24-24	400	96	36	BROADCAST
6	S S JUBILEE	6-21-24	0	0	0	
7	S S JUBILEE	6-24-24	100	24	24	IN FURROW
8	S S JUBILEE	6-24-24	200	48	48	IN FURROW
9	S S JUBILEE	6-24-24	300	72	72	IN FURROW
10	S S JUBILEE	6-24-24	400	96	36	IN FURROW
11	S S JUBILEE	6-24-24	0	0	0	
12	SSJUBILEE	6-24-24	100	24	24	OFFSET
13	S S JUBILEE	6-24-24	200	48	48	OFFSET
14	S S JUBILEE	5-24-24	300	72	72	OFFSET
15	S S JUBILEE	6-24-24	400	36	96	OFFSET

MATERIALS AND METHODS : WEED CONTROL - SUTAN+ (4.0 KG/HA) + BLADEX (2.0 KG/HA) PREPLANT INCORPORATED  
INSECT CONTROL - POUHCE (375 MLS/HA) AT 7 DAY INTERVALS  
NITROGEN FERTILIZER - UREA (250 KG/HA) BROADCAST INCORPORATED

ASSESSMENTS :  
PLANT STAND COUNTS - 7 AND 11 DAYS AFTER PLANTING AND PRIOR TO THINNING  
PLANT DEVELOPMENT - 7 AND 14 DAYS AFTER PLANTING AND PRIOR TO THINNING  
THIN PLANTS TO 50,000 PLANTS/HA WHEN IN THE SIX LEAF STAGE  
MATURITY RATINGS : DAYS TO 50 % SILKING - DAYS AFTER PLANTING  
CORN HEAT UNITS - DAILY METEOROLOGICAL DATA  
DISEASE RATINGS : AS REQUIRED (SMUT AND RUST)  
LOGGING RATINGS : 4 AT HARVEST  
QUALITY AND  
YIELD ASSESSMENTS : TO BE COMPLETED 22 DAYS AFTER 50% SILKING - 5 COES PER PLOT  
COB LENGTH (CM) - HUSK OFF  
COB WIDTH (CM) - HUSK OFF  
KERNEL DEPTH (MM)  
TIP COVER (1-5)  
FRESH KERNEL WEIGHT (KG/HA) - CORN CUTTER  
PERCENT MOISTURE - MOISTURE METER

TITLE : THE EFFECT OF PLANT POPULATION ON THE YIELD OF SUPER SWEET - SWEET CORN

EXPERIMENT NUMBER : SWEET CORN # 5

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : CULTIVAR SUB-PLOTS : PLANT POPULATION

REPLICATIONS : 4 NUMBER OF TREATMENTS : 12

PLOT SIZE : 4 ROWS (75 CM) \* 8.0 M TOTAL AREA : 36.0 M \* 32.0 M (1152 M SQ)

CULTIVAR : SUMMER CRISP & SUPER SWEET JUBILEE LOCATION : RIDGETOWN

TOTAL SEEDS REQUIRED : 6,144 PER CULTIVAR PLANTING DISTANCE/PLOT : 9.0 M

TREATMENT NUMBER	CULTIVAR	PLANT POPULATION PLANTS/HA	NUMBER OF SEEDS TO PLANT PER 9 METERS	NUMBER OF PLANTS TO THIN TO AT THE SIX LEAF STAGE
1	SUMMER CRISP	37500	46	23
2	SUMMER CRISP	43750	52	26
3	SUMMER CRISP	50000	60	30
4	SUMMER CRISP	56250	68	34
5	SUMMER CRISP	62500	76	38
6	SUMMER CRISP	68750	82	41
7	SUPER SWEET JUBILEE	37500	46	23
8	SUPER SWEET JUBILEE	43750	52	26
9	SUPER SWEET JUBILEE	50000	60	30
10	SUPER SWEET JUBILEE	56250	68	34
11	SUPER SWEET JUBILEE	62500	76	38
12	SUPER SWEET JUBILEE	68750	82	41

MATERIALS AND METHODS : WEED CONTROL - SUTAN+ (4.0 KG/HA) + BLADEX (2.0 KG/HA) PREPLANT INCORPORATED

INSECT CONTROL - POUNCE (375 MLS/HA) AT 7 DAY INTERVALS

NITROGEN FERTILIZER - UREA (250 KG/HA) BROADCAST INCORPORATED

STARTER FERTILIZER - 6-24-24 (100 KG/HA)

ASSESSMENTS : PLANT STAND COUNTS - 7 AND 14 DAYS AFTER PLANTING AND PRIOR TO THINNING

PLANT DEVELOPMENT - 7 AND 14 DAYS AFTER PLANTING AND PRIOR TO THINNING

THIN PLANTS WHEN IN THE SIX LEAF STAGE

MATURITY RATINGS : DAYS TO 50% SILKING - DAYS AFTER PLANTING

CORN HEAT UNITS - DAILY METEOROLOGICAL DATA

DISEASE RATINGS : AS REQUIRED (SMUT AND RUST)

LODGING RATINGS : % AT HARVEST

QUALITY AND YIELD ASSESSMENTS : TO BE COMPLETED 20 AND 25 DAYS AFTER 50% SILKING - 5 COBS PER PLOT

COB LENGTH (CM) - HUSK OFF

COB WIDTH (CM) - HUSK OFF

KERNEL DEPTH (MM)

TIP COVER (1-5)

FRESH KERNEL WEIGHT (KG/HA) - CORN CUTTER

PERCENT MOISTURE - MOISTURE METER

PERCENT KERNEL DRY WEIGHT - MICROWAVE

EAR WEIGHT (KG/HA) - ONE COMPLETE ROW

COP COUNT PER ROW

PERCENT MARKETABLE COBS

TITLE : THE EFFECT OF PLANTING DATE AND MATURITY ON THE YIELD OF STANDARD SWEET CORN

EXPERIMENT NUMBER : SWEET CORN # 6

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS :	PLANTING DATE	SUB-PLOTS :	CULTIVARS
REPLICATIONS :	4	NUMBER OF TREATMENTS :	12
PLOT SIZE :	8 ROWS (75 CM) x 8.0 M	TOTAL AREA :	72.0 M x 32.0 M (2304 M SQ)
CULTIVAR :	AS LISTED	LOCATION :	RIDGETOWN
PLANTING DENSITY :	100,000 PLANTS/HA (40,000 PLANTS/ACRE)	FINAL PLANT STAND :	50,000 PLANTS/HA (20,000 PLANTS/ACRE)
SEEDS PER ROW :	60	FINAL PLANTS/ROW :	30 (26 CM BETWEEN PLANTS)
TOTAL SEEDS REQUIRED :	5,760 PER CULTIVAR	PLANTING DISTANCE/PLOT :	9.0 M

TREATMENT NUMBER	CULTIVAR	PLANTING DATE	NUMBER OF SEEDS TO PLANT PER ROW	FINAL PLANT COUNT PER ROW
1	COHHANDER	HAY 8	60	30
2	JUBILEE	HAY 8	60	30
3	REWARD	HAY 8	60	30
4	RIVAL	HAY 8	60	30
5	COHHANDER	HAY 22	60	30
6	JUBILEE	HAY 22	60	30
7	REWARD	HAY 22	60	30
8	RIVAL	HAY 22	60	30
9	COHHANDER	JUNE 5	60	30
10	JUBILEE	JUNE 5	60	30
11	REWARD	JUNE 5	60	30
12	RIVAL	JUNE 5	60	30

MATERIALS AND METHODS : WEED CONTROL - SUTAN+ (4.0 KG/HA) + BLADEX (2.0 KG/HA) PREPLANT INCORPORATED  
 INSECT CONTROL - POUNCE (375 MLS/HA) AT 7 DAY INTERVALS  
 NITROGEN FERTILIZER - UREA (250 KGIHA) BROADCAST INCORPORATED BEFORE EACH PLANTING  
 STARTER FERTILIZER - 6-24-24 (100 KGIHA) BROADCAST OVER ENTIRE RANGE BEFORE FIRST PLANTING

ASSESSMENTS : PLANT STAND COUNTS - 7 AND 14 DAYS AFTER PLANTING AND PRIOR TO THINNING  
 PLANT DEVELOPMENT - 7 AND 14 DAYS AFTER PLANTING AND PRIOR TO THINNING  
 THIN PLANTS TO 50,000 PLANTS/HA WHEN IN THE SIX LEAF STAGE  
 MATURITY RATINGS : DAYS TO 50% SILKING - DAYS AFTER PLANTING  
 CORN HEAT UNITS - DAILY METEOROLOGICAL DATA

DISEASE RATINGS : AS REQUIRED (SMUT AND RUST)  
 LODGING RATINGS : % AT HARVEST  
 QUALITY AND YIELD ASSESSMENTS : TO BE COMPLETED 18, 20, 22, 25, 28 AND 31 DAYS AFTER 50% SILKING - 5 COBS PER PLOT  
 COB LENGTH (CM) - HUSK OFF  
 COB WIDTH (CM) - HUSK OFF  
 KERNEL DEPTH (MM)  
 TIP COVER (1-5)  
 FRESH KERNEL WEIGHT (KG/HA) - CORN CUTTER  
 PERCENT MOISTURE - MOISTURE METER  
 PERCENT KERNEL DRY WEIGHT - MICROWAVE  
 KERNEL WEIGHT (KG/HA) - ONE COMPLETE ROW  
 COB COUNT PER ROW  
 PERCENT MARKETABLE COBS

*5 cobs/plot*  
*weight husk on*  
*weight husk off*  
*weight of fresh kernel*  
*weight of dry*  
*different set of five*  
*1 = exposed 5 very long*  
*less than 2" remove*  
*re count*  
*or primary*  
*60° to vertical*  
*30° to horizontal*  
*5 cobs/plot*  
*weight husk on*  
*weight husk off*  
*weight of fresh kernel*  
*weight of dry*

EXPERIMENT NUMBER : SWEET CORN # 7

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : PLANTING DATE SUB-PLOTS : CULTIVARS

REPLICATIONS : 4 NUMBER OF TREATMENTS : 6

PLOT SIZE : 8 ROWS (75 CM) \* 8.0 M TOTAL AREA : 36.0 M \* 32.0 M (1152 M SQ)

CULTIVAR : AS LISTED LOCATION : RIDGETOWN

PLANTING DENSITY : 100,000 PLANTS/HA (40,000 PLANTS/ACRE) FINAL PLANT STAND : 50,000 PLANTS/HA (20,000 PLANTS/ACRE)

SEEDS PER ROW : 58 FINAL PLANTS/ROW : 25

TOTAL SEEDS REQUIRED : 5,760 PER CULTIVAR PLANTING DISTANCE/PLOT : 7.0 M

TREATMENT NUMBER	CULTIVAR	PLANTING DATE	NUMBER OF SEEDS TO PLANT PER ROW	FINAL PLANT COUNT PER ROW
1	SUMMER CRISP	MAY 8	60	30
2	SUPER SWEET JUBILEE	MAY 8	60	30
3	SUMMER CRISP	MAY 22	60	30
4	SUPER SWEET JUBILEE	MAY 22	60	30
5	SUMMER CRISP	JUNE 5	60	30
6	SUPER SWEET JUBILEE	JUNE 5	60	30

MATERIALS AND METHODS :

WEED CONTROL - 90TAN+ (4.0 KG/HA) + BLADEX (2.0 KG/HA) PREPLAN INCO>PO>A>ED

INSECT CONTROL - POU<CE (375 MLS/HA) AT 7 DAY INTERVALS

NITROGEN FERTILIZER - UREA (250 KG/HA) BROADCAST INCORPORATED BEFORE EACH PLANTING

STARTER FERTILIZER - 6-24-24 (100 KG/HA) BROADCAST OVER ENTIRE RANGE BEFORE FIRST PLANTING

ASSESSMENTS :

PLANT STAND COUNTS - 7 AND 14 DAYS AFTER PLANTING AND PRIOR TO THINNING

PLANT DEVELOPMENT - 7 AND 14 DAYS AFTER PLANTING AND PRIOR TO THINNING

THIN PLANTS TO 50,000 PLANTS/HA WHEN IN THE SIX LEAF STAGE

MATURITY RATINGS : DAYS TO 50 % SILKING - DAYS AFTER PLANTING

CORN HEAT UNITS - DAILY METEOROLOGICAL DATA

DISEASE RATINGS : AS REQUIRED (SMUT AND RUST)

LODGING RATINGS : % AT HARVEST

QUALITY AND

YIELD ASSESSMENTS : TO BE COMPLETED 18, 20, 22, 25, 28 AND 31 DAYS AFTER 50% SILKING - 5 COBS PER PLOT

COB LENGTH (CM) - HUSK OFF

COB WIDTH (CM) - HUSK OFF

KERNEL DEPTH (MM)

TIP COVER (1-5)

FRESH KERNEL WEIGHT (KG/HA) - CORO COTER

PERCENT MOISTURE - MOISTURE METER

PERCENT KERNEL DRY WEIGHT - MICROWAVE

EAR WEIGHT (KG/HA) - ONE COMPLETE ROW

COB COUNT PER ROW

PERCENT MARKETABLE COBS

TITLE : THE EFFECT OF PLANT CONFIGURATION ON THE YIELD OF HEINZ 3464 TOMATOES

EXPERIMENT NUMBER : TOMATO # 1

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : BED WIDTH

REPLICATIONS : 4

PLOT SIZE : ONE BED \* 8.0M

PLANTING DATE : MAY 17

CULTIVAR : HEINZ 9464 (EARLY)

PLANTING DENSITY : 12,000 PLANTS PER ACRE

COOPERATING SCIENTISTS : P. H. SIKKEHA AND R. GARTON

SUB-PLOTS : PLANT CONFIGURATION

NUMBER OF TREATMENTS : 20

TOTAL AREA : 117.5 FT \* 132 FT (15,510 SQ FT)

TOTAL AREA : 36.0 M \* 40.0 M (1440 M SQ)

LOCATION : RIDGETOWN

PLANTING DISTANCE/PLOT: 3.0 M

TOTAL PLANTS REQUIRED : 800

TREATMENT NUMBER	CULTIVAR	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN DOUBLE ROWS (IN)	DISTANCE BETWEEN TWO PLANTS (IN)	FINAL PLANT STAND PER ROW
1	HEINZ 9464	60 INCHES	SINGLE		8.75	36
2	HEINZ 3464	60 INCHES	DOUBLE	12	17.50	18
3	HEINZ 9464	60 INCHES	DOUBLE	18	17.50	18
4	HEINZ 9464	60 INCHES	DOUBLE	24	17.50	18
5	HEINZ 9464	60 INCHES	TRIPLE	12	26.25	12
6	HEINZ 9464	66 INCHES	SINGLE		8.00	39
7	HEINZ 9464	66 INCHES	DOUBLE	12	16.00	20
8	HEINZ 3464	66 INCHES	DOUBLE	18	16.00	20
9	HEINZ 3464	66 INCHES	DOUBLE	24	16.00	20
10	HEINZ 3464	66 INCHES	TRIPLE	12	24.00	13
11	HEINZ 9464	72 INCHES	SINGLE		7.25	44
12	HEINZ 3464	72 INCHES	DOUBLE	12	14.50	22
13	HEINZ 9454	72 INCHES	DOUBLE	18	14.50	22
14	HEINZ 3464	72 INCHES	DOUBLE	24	14.50	22
15	HEINZ 9464	72 INCHES	TRIPLE	12	21.75	15
16	HEINZ 3464	84 INCHES	SINGLE		6.25	51
17	HEINZ 3464	34 INCHES	DOUBLE	12	12.50	26
18	HEINZ 9464	84 INCHES	DOUBLE	18	12.50	26
19	HEINZ 9464	84 INCHES	DOUBLE	24	12.50	26
20	HEINZ 9464	84 INCHES	TRIPLE	12	18.75	17

MATERIALS AND METHODS : WEED CONTROL : TREFLAN + SENCOR (PREPLANT INCORPORATED)  
 FERTILIZER : 100-50-300 (N-P205-K20)  
 INSECT CONTROL : AS REQUIRED  
 DISEASE CONTROL : BRAVO

ASSESSMENTS : TOTAL YIELD PLANT HEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 FRUIT SIZE PLANT FRESH WEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 GREEN FRUIT PLANT DRY WEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 CULLS PLANT DEVELOPMENT NOTES - EVERY TWO WEEKS

TITLE : EFFECT OF PLANT CONFIGURATION ON YIELD (II)

EXPERIMENT NUMBER : TOHAD # 2

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS :	BED WIDTH	SUB-PLOTS :	PLANT CONFIGURATION
REPLICATIONS :	4	NUMBER OF TREATMENTS :	20
PLOT SIZE :	ONE BED * 8.0M	TOTAL AREA :	117.5 FT * 132 FT (15,510 SQ FT)
PLANTING DATE :	HAY 17	TOTAL AREA :	36.0 M * 40.0 M (1440 M SQ)
CULTIVAR :	FM 6203	LOCATION :	RIDGETOWN
PLANTING DENSITY :	12,000 PLANTS PER ACRE	PLANTING DISTANCE/PLOT:	9.0 M
COOPERATING SCIENTISTS :	P. H. SIKKEHA AND R. GARTON	TOTAL PLANTS REQUIRED :	900

TREATMENT NUMBER	CULTIVAR	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN DOUBLE ROWS (IN)	DISTANCE BETWEEN TWO PLANTS (IN)	FINAL PLANT STAND PER ROW
1	FM 6203	60 INCHES	SINGLE		8.75	36
2	FM 6203	60 INCHES	DOUBLE	12	17.50	18
3	FM 6203	60 INCHES	DOUBLE	18	17.50	18
4	FM 6203	60 INCHES	DOUBLE	24	17.50	18
5	FM 6203	60 INCHES	TRIPLE	12	26.25	12
6	FM 6203	66 INCHES	SINGLE		8.00	39
7	FM 6203	66 INCHES	DOUBLE	12	16.00	20
8	FM 6203	66 INCHES	DOUBLE	18	16.00	20
9	FM 6203	66 INCHES	DOUBLE	24	16.00	20
10	FM 6203	66 INCHES	TRIPLE	12	24.00	13
11	FM 6203	72 INCHES	SINGLE		7.25	44
12	FM 6203	72 INCHES	DOUBLE	12	14.50	22
13	FM 6203	72 INCHES	DOUBLE	18	14.50	22
14	FM 6203	72 INCHES	DOUBLE	24	14.50	22
15	FM 6203	72 INCHES	TRIPLE	12	21.75	15
16	FM 6203	84 INCHES	SINGLE		6.25	51
17	FM 6203	84 INCHES	DOUBLE	12	12.50	26
18	FM 6203	84 INCHES	DOUBLE	18	12.50	26
19	FM 6203	84 INCHES	DOUBLE	24	12.50	26
20	FM 6203	84 INCHES	TRIPLE	12	18.75	17

MATERIALS AND METHODS : WEED CONTROL : TREFLAN + SENCOR (PREPLANT INCORPORATED)  
 FERTILIZER : 100-50-300 (N-P2O5-K20)  
 INSECT CONTROL : AS REQUIRED  
 DISEASE CONTROL : BRAVO

ASSESSMENTS : TOTAL YIELD PLANT HEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 FRUIT SIZE PLANT FRESH WEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 GREEN FRUIT PLANT DRY WEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 CULLS PLANT DEVELOPMENT NOTES - EVERY TWO WEEKS

TITLE : EFFECT OF PLANT CONFIGURATION ON YIELD (III)

EXPERIMENT NUMBER : TOMATO # 3

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : BED WIDTH

REPLICATIONS : 4

PLOT SIZE : ONE BED \* 8.0M

PLANTING DATE : MAY 17

CULTIVAR : OHIO 8245

PLANTING DENSITY : 12,000 PLANTS PER ACRE

COOPERATING SCIENTISTS : P. H. SIKKEMA AND R. GARTON

SUB-PLOTS : PLANT CONFIGURATION

NUMBER OF TREATMENTS : 20

TOTAL AREA : 117.5 FT \* 132 FT (15,510 SQ FT)

TOTAL AREA : 36.0 M \* 40.0 M (1440 M SQ)

LOCATION : RIDGETOWN

PLANTING DISTANCE/PLOT: 9.0 M

TOTAL PLANTS REQUIRED : 800

TREATMENT NUMBER	CULTIVAR	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN DOUBLE ROWS (IN)	DISTANCE BETWEEN TWO PLANTS (IN)	FINAL PLANT STAND PER ROW
1	OHIO 8245	60 INCHES	SINGLE		8.75	36
2	OHIO 8245	60 INCHES	DOUBLE	12	17.50	18
3	OHIO 8245	60 INCHES	DOUBLE	18	17.50	18
4	OHIO 8245	60 INCHES	DOUBLE	24	17.50	18
5	OHIO 8245	60 INCHES	TRIPLE	12	26.25	12
6	OHIO 8245	66 INCHES	SINGLE		8.00	39
7	OHIO 8245	66 INCHES	DOUBLE	12	16.00	20
8	OHIO 8245	66 INCHES	DOUBLE	18	16.00	20
9	OHIO 8245	66 INCHES	DOUBLE	24	16.00	20
10	OHIO 8245	66 INCHES	TRIPLE	12	24.00	13
11	OHIO 8245	72 INCHES	SINGLE		7.25	44
12	OHIO 8245	72 INCHES	DOUBLE	12	14.50	22
13	OHIO 8245	72 INCHES	DOUBLE	18	14.50	22
14	OHIO 8245	72 INCHES	DOUBLE	24	14.50	22
15	OHIO 8245	72 INCHES	TRIPLE	12	21.75	15
16	OHIO 8245	84 INCHES	SINGLE		6.25	51
17	OHIO 8245	84 INCHES	DOUBLE	12	12.50	26
18	OHIO 8245	84 INCHES	DOUBLE	18	12.50	26
19	OHIO 8245	84 INCHES	DOUBLE	24	12.50	26
20	OHIO 8245	84 INCHES	TRIPLE	12	18.75	17

MATERIALS AND METHODS : WEED CONTROL : TREFLAN + SENCOR (PREPLANT INCORPORATED)  
 FERTILIZER : 100-50-300 (N-P205-K20)  
 INSECT CONTROL : AS REQUIRED  
 DISEASE CONTROL : BRAVO

ASSESSMENTS : TOTAL YIELD  
 FRUIT SIZE  
 GREEN FRUIT  
 CULLS  
 PLANT HEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 PLANT FRESH WEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 PLANT DRY WEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 PLANT DEVELOPMENT NOTES - EVERY TWO WEEKS



TITLE : EFFECT OF PLANTING DATE ON THE DEVELOPMENT  
AND YIELD OF TOMATOES (I)

EXPERIMENT NUMBER : TOMATO # 4

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS :	PLANTING DATE	SUB-PLOTS :	CULTIVAR
REPLICATIONS :	4	NUMBER OF TREATMENTS :	20
PLOT SIZE :	ONE BED * 8.0 M	TOTAL AREA :	100 FT x 132 FT (13200 SQ FT)
PLANTING DATE :	AS LISTED	TOTAL AREA :	31.0 M x 40.0 M (1280 M SQ)
CULTIVAR :	AS LISTED	LOCATION :	RIDGETOWN
PLANTING DENSITY :	8,712 PLANTS PER ACRE	PLANTING DISTANCE/PLOT :	9.0 M
OPERATING SCIENTISTS :	P. H. SIKKEMA	TOTAL PLANTS REQUIRED :	120 PER PLANTING DATE PER CULTIVAR

TREATMENT NUMBER	CULTIVAR	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	PLANTING DATE
1	HEINZ 2653	60 INCHES	SINGLE	12	MAY 15
2	HEINZ 9464	60 INCHES	SINGLE	12	MAY 15
3	OHIO 7814	60 INCHES	SINGLE	12	MAY 15
4	FM 6203	60 INCHES	SINGLE	12	MAY 15
5	OHIO 8245	60 INCHES	SINGLE	12	MAY 15
6	HEINZ 2653	60 INCHES	SINGLE	12	MAY 29
7	HEINZ 9464	60 INCHES	SINGLE	12	MAY 29
8	OHIO 7814	60 INCHES	SINGLE	12	MAY 29
9	FM 6203	60 INCHES	SINGLE	12	MAY 29
10	OHIO 8245	60 INCHES	SINGLE	12	MAY 29
11	HEINZ 2653	60 INCHES	SINGLE	12	JUNE 12
12	HEINZ 9464	60 INCHES	SINGLE	12	JUNE 12
13	OHIO 7814	60 INCHES	SINGLE	12	JUNE 12
14	FM 6203	60 INCHES	SINGLE	12	JUNE 12
15	OHIO 8245	60 INCHES	SINGLE	12	JUNE 12
16	HEINZ 2653	60 INCHES	SINGLE	12	JUNE 26
17	HEINZ 9464	60 INCHES	SINGLE	12	JUNE 26
18	OHIO 7814	60 INCHES	SINGLE	12	JUNE 26
19	FM 6203	60 INCHES	SINGLE	12	JUNE 26
20	OHIO 8245	60 INCHES	SINGLE	12	JUNE 26

MATERIALS AND METHODS : WEED CONTROL : TREFLAN + SENCOR (PREPLANT INCORPORATED)  
FERTILIZER : 100-50-300 (N-P205-K20)  
INSECT CONTROL : AS REQUIRED  
DISEASE CONTROL : BRAVO

ASSESSMENTS : TOTAL YIELD PLANT HEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
FRUIT SIZE PLANT FRESH WEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
GREEN FRUIT PLANT DRY WEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
CULLS PLANT DEVELOPMENT NOTES - EVERY TWO WEEKS  
WHOLE PACK QUALITY DATE OF HARVEST

TITLE : EFFECT OF PLANTING DATE ON THE DEVELOPMENT AND YIELD OF TOMATOES (II)

EXPERIMENT NUMBER : TOMATO # 5

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : PLANTING DATE

REPLICATIONS : 4

PLOT SIZE : ONE BED ± 8.0 M

PLANTING DATE : AS LISTED

CULTIVAR : AS LISTED

PLANTING DENSITY : 8,712 PLANTS PER ACRE

OPERATING SCIENTISTS : P. H. SIKKEHA

SUB-PLOTS : CULTIVAR

NUMBER OF TREATMENTS : 20

TOTAL AREA : 100 FT ± 132 FT (13200 SQ FT)

TOTAL AREA : 31.0 M ± 40.0 M (1280 M SQ)

LOCATION : DRESDEN

PLANTING DISTANCE/PLOT: 9.0 M

TOTAL PLANTS REQUIRED : 120 PER PLANTING DATE PER CULTIVAR

TREATMENT NUMBER	CULTIVAR	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	PLANTING DATE
1	HEINZ 2653	60 INCHES	SINGLE	12	HAY 15
2	HEINZ 9464	60 INCHES	SINGLE	12	HAY 15
3	OHIO 7814	60 INCHES	SINGLE	12	HAY 15
4	FM 6203	60 INCHES	SINGLE	12	HAY 15
5	OHIO 8245	60 INCHES	SINGLE	12	HAY 15
6	HEINZ 2653	60 INCHES	SINGLE	12	HAY 29
7	HEINZ 9464	60 INCHES	SINGLE	12	HAY 29
8	OHIO 7814	60 INCHES	SINGLE	12	HAY 29
9	FM 6203	60 INCHES	SINGLE	12	HAY 29
10	OHIO 8245	60 INCHES	SINGLE	12	RAY 29
11	HEINZ 2653	60 INCHES	SINGLE	12	JUNE 12
12	HEINZ 9464	60 INCHES	SINGLE	12	JUNE 12
13	OHIO 7814	60 INCHES	SINGLE	12	JUNE 12
14	FM 6203	60 INCHES	SINGLE	12	JUNE 12
15	OHIO 8245	60 INCHES	SINGLE	12	JUNE 12
16	HEINZ 2653	60 INCHES	SINGLE	12	JUNE 26
17	HEINZ 9464	60 INCHES	SINGLE	12	JUNE 26
18	OHIO 7814	60 INCHES	SINGLE	12	JUNE 26
19	FM 6203	60 INCHES	SINGLE	12	JUNE 26
20	OHIO 8245	60 INCHES	SINGLE	12	JUNE 26

MATERIALS AND METHODS : WEED CONTROL : TREFLAN + SENCOR (PREPLANT INCORPORATED)  
 FERTILIZER : 100-50-300 (N-P205-K20)  
 INSECT CONTROL : AS REQUIRED  
 DISEASE CONTROL : BRAVO

ASSESSMENTS : TOTAL YIELD PLANT HEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 FRUIT SIZE PLANT FRESH WEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 GREEN FRUIT PLANT DRY WEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 CULLS PLANT DEVELOPMENT NOTES - EVERY TWO WEEKS  
 WHOLE PACK QUALITY DATE OF HARVEST

TITLE : EFFECT OF OUTSIDE STORAGE TO HARDEN OFF  
TOMATO SEEDLINGS (I)

EXPERIMENT NUMBER : TOMATO # 6

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : STORAGE TIME OUTSIDE

REPLICATIONS : 4

PLOT SIZE : ONE BED \* 8.0 M

PLANTING DATE : HAY 3

CULTIVAR : HEINZ 722

PLANTING DENSITY : 8,712 PLANTS PER ACRE

COOPERATING SCIENTISTS : P. SIKKEMA

SUB-PLOTS :

NUMBER OF TREATMENTS : 10

TOTAL AREA :

TOTAL AREA :

LOCATION :

PLANTING DISTANCE/PLOT :

TOTAL PLANTS REQUIRED :

FERTILIZER REGIME

10

50 FT \* 132 FT (6600 SQ FT)

16.0 M \* 40.0 M (640 M SQ)

RIDGETOWN

9.0 M

120 PER PLANTING DATE PER CULTIVAR

TREATMENT NUMBER	CULTIVAR	FERTILIZER REGIME	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	LENGTH OF TIME OUTSIDE (DAYS)
1	HEINZ 722	20-20-20	60 INCHES	SINGLE	12	0
2	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	0
3	HEINZ 722	20-20-20	60 INCHES	SINGLE	12	2
4	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	2
5	HEINZ 722	20-20-20	60 INCHES	SINGLE	12	4
6	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	4
7	HEINZ 722	20-20-20	60 INCHES	SINGLE	12	6
8	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	6
9	HEINZ 722	20-20-20	60 INCHES	SINGLE	12	8
10	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	8

MATERIALS AND METHODS : WEED CONTROL : TREFLAN + SENCOR (PREPLANT INCORPORATED)  
FERTILIZER : 100-50-300 (N-P205-K20)  
INSECT CONTROL : AS REQUIRED  
DISEASE CONTROL : BRAVO

ASSESSMENTS: TOTAL YIELD PLANT STAND COUNTS - 7, 14, 21 DAYS AFTER PLANTING  
FRUIT SIZE PLANT HEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
GREEN FRUIT PLANT DEVELOPMENT NOTES - EVERY TWO WEEKS  
CULLS DATE OF HARVEST

TITLE : EFFECT OF OUTSIDE STORAGE TO HARDEN OFF  
TOMATO SEEDLINGS (II)

EXPERIMENT NUMBER : TOMATO # 7

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : STORAGE TIME OUTSIDE

REPLICATIONS : 4

PLOT SIZE : ONE BED \* 8.0 M

PLANTING DATE : MAY 3

CULTIVAR : OHIO 7814

PLANTING DENSITY : 8,712 PLANTS PER ACRE

OPERATING SCIENTISTS : P.SIKKEMA

SUB-PLOTS : FERTILIZER REGIME

NUMBER OF TREATMENTS : 10

TOTAL AREA : 50 FT \* 132 FT (6600 SQ FT)

TOTAL AREA : 16.0 M \* 40.0 M (640 M SQ)

LOCATION : RIDGETOWN

PLANTING DISTANCE/PLOT: 9.0 M

TOTAL PLANTS REQUIRED : 120 PER PLANTING DATE PER CULTIVAR

TREATMENT NUMBER	CULTIVAR	FERTILIZER REGIME	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	LENGTH OF TIME OUTSIDE (DAYS)
1	OHIO 7814	20-20-20	60 INCHES	SINGLE	12	0
2	OHIO 7814	200-25-50-163-40	60 INCHES	SINGLE	12	0
3	OHIO 7814	20-20-20	60 INCHES	SINGLE	12	2
4	OHIO 7814	200-25-50-163-40	60 INCHES	SINGLE	12	2
5	OHIO 7814	20-20-20	60 INCHES	SINGLE	12	4
6	OHIO 7814	200-25-50-163-40	60 INCHES	SINGLE	12	4
7	OHIO 7814	20-20-20	60 INCHES	SINGLE	12	6
8	OHIO 7814	200-25-50-163-40	60 INCHES	SINGLE	12	6
9	OHIO 7814	20-20-20	60 INCHES	SINGLE	12	8
10	OHIO 7814	200-25-50-163-40	60 INCHES	SINGLE	12	8

MATERIALS AND METHODS : WEED CONTROL : TRIFLAN + SENCOR (PREPLANT INCORPORATED)  
 FERTILIZER : 100-50-300 (N-P205-K20)  
 INSECT CONTROL : AS REQUIRED  
 DISEASE CONTROL : BRAVO

ASSESSMENTS : TOTAL YIELD PLANT STAND COUNTS - 7, 14, 21 DAYS AFTER PLANTING  
 FRUIT SIZE PLANT HEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 GREEN FRUIT PLANT DEVELOPMENT NOTES - EVERY TWO WEEKS  
 CULLS DATE OF HARVEST

TITLE : EFFECT OF TRAY SIZE ON TOMATO SEEDLINGS (I)

EXPERIMENT NUMBER : TOMATO # 8

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS :	TRAY SIZE	SUB-PLOTS :	FERTILIZER REGIME
REPLICATIONS :	4	NUMBER OF TREATMENTS :	6
PLOT SIZE :	ONE BED ± 8.0	TOTAL AREA :	30 FT ± 132 FT (3960 SQ FT)
PLANTING DATE :	HAY 3	TOTAL AREA :	9.0 M ± 40.0 M (360 M SQ)
CULTIVAR :	HEINZ 722	LOCATION :	RIDGETOWN
PLANTING DENSITY :	8,712 PLANTS PER ACRE	PLANTING DISTANCE/PLOT:	9.0 M
COOPERATING SCIENTISTS :	P. SIKKERA	TOTAL PLANTS REQUIRED :	120 PER PLANTING DATE PER CULTIVAR

TREATMENT NUMBER	CULTIVAR	BED WIDTH	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	TRAY SIZE
1	HEINZ 722	20-20-20	60 INCHES	SINGLE	12	288
2	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	288
3	HEINZ 722	20-20-20	60 INCHES	SINGLE	12	406
4	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	406
5	HEINZ 722	20-20-20	60 INCHES	SINGLE	12	512
6	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	512

MATERIALS AND METHODS : WEED CONTROL : TREFLAN + SENCOR (PREPLANT INCORPORATED)  
 FERTILIZER : 100-50-300 (N-P205-K20)  
 INSECT CONTROL : AS REQUIRED  
 DISEASE CONTROL : BRAVO

ASSESSMENTS : TOTAL YIELD PLANT STIND COUNTS - 7,14,21 DAYS AFTER PLANTING  
 FRUIT SIZE PLANT HEIGHT - 1, 2, 3 HDNTHS AFTER PLANTING  
 GREEN FRUIT PLANT DEVELOPHENT NOTES - EVERY TWO WEEKS  
 CULLS DATE OF HARVEST

TITLE : EFFECT OF TRAY SIZE ON TOMATO SEEDLINGS (II)

EXPERIMENT NUMBER : TOMATO # 9

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : TRAY SIZE

REPLICATIONS : 4

PLOT SIZE : ONE BED # 8.0 M

PLANTING DATE : MAY 3

CULTIVAR : OHIO 7814

PLANTING DENSITY : 8,712 PLANTS PER ACRE

COOPERATING SCIENTISTS : P.SIKKEMA

SUB-PLOTS :

NUMBER OF TREATMENTS : 6

TOTAL AREA : 30 FT # 132 FT (3960 SQ FT)

TOTAL AREA : 9.0 M # 40.0 M (360 M SQ)

LOCATION : RIDGETOWN

PLANTING DISTANCE/PLOT : 9.0 M

TOTAL PLANTS REQUIRED : 120 PER PLANTING DATE PER CULTIVAR

SINGLE OR DISTANCE BETWEEN TWO

DOUBLE ROW PLANTS (IN)

TRAY SIZE

TREATMENT NUMBER	CULTIVAR	BED WIDTH	BED WIDTH	DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	TRAY SIZE
1	OHIO7814	20-20-20	60 INCHES	SINGLE	12	288
	OHIO 7814	200-25-50-163-40	60 INCHES	SINGLE	12	288
3	OHIO 7814	20-20-20	60 INCHES	SINGLE	12	406
4	OHIO 7814	200-25-50-163-40	60 INCHES	SINGLE	12	406
5	OHIO7814	20-20-20	60 INCHES	SINGLE	12	512
6	OHIO 7814	200-25-50-163-40	60 INCHES	SINGLE	12	512

MATERIALS AND METHODS : WEED CONTROL :

TREFLAN + SENCOR (PREPLANT INCORPORATED)

FERTILIZER :

100-50-300 (N-P205-K20)

INSECT CONTROL :

AS REQUIRED

DISEASE CONTROL :

BRAVO

ASSESSMENTS :

TOTAL YIELD

PLANT STAND COUNTS - 7, 14, 21 DAYS AFTER PLANTING

FRUIT SIZE

PLANT HEIGHT - 1, 2, 3 MONTHS AFTER PLANTING

GREEN FRUIT

PLANT DEVELOPMENT NOTES - EVERY TWO WEEKS

CULLS

DATE OF HARVEST

TITLE : EFFECT OF TRAY SIZE ON TOMATO SEEDLINGS (III)

EXPERIMENT NUMBER : TOMATO 8 11

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : TRAY SIZE

REPLICATIONS : 4

PLOT SIZE : ONE BED \* 8.0

PLANTING DATE : MAY 3

CULTIVAR : JUNE 14

PLANTING DENSITY : 8,712 PLANTS PER ACRE

COOPERATING SCIENTISTS : P. SIKKEMA

SUB-PLOTS :

NUMBER OF TREATMENTS : 6

TOTAL AREA : 30 FT \* 132 FT (3960 SQ FT)

TOTAL AREA : 9.0 M \* 40.0 M (360 M SQ)

LOCATION : RIDGETOWN

PLANTING DISTANCE/PLOT: 9.0 M

TOTAL PLANTS REQUIRED : 120 PER PLANTING DATE PER CULTIVAR

TREATMENT NUMBER	CULTIVAR	BED WIDTH	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	TRAY SIZE
1	HEINZ 722	20-8-20 (400 ml)	60 INCHES	SINGLE	12	288
2	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	288
3	HEINZ 722	20-8-20	60 INCHES	SINGLE	12	406
4	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	406
5	HEINZ 722	20-8-20	60 INCHES	SINGLE	12	512
6	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	512

MATERIALS AND METHODS : WEED CONTROL : TREFLAM + SENCOR (PREPLANT INCORPORATED)

FERTILIZER : 100-50-300 (N-P2O5-K20)

INSECT CONTROL : AS REQUIRED

DISEASE CONTROL : BRAVO

ASSESSMENTS :

TOTAL YIELD

FRUIT SIZE

GREEN FRUIT

CULLS

PLANT STAND COUNTS - 7, 14, 21 DAYS AFTER PLANTING

PLANT HEIGHT AND DEVELOPMENT - 1, 2, 3 MONTHS AFTER PLANTING

DATE OF HARVEST

TITLE : EFFECT OF TRAY SIZE ON TOMATO SEEDLINGS (IV)

EXPERIMENT NUMBER : TOMATO # 12

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : TRAY SIZE

REPLICATIONS : 4

PLOT SIZE : ONE BED # 8.0 M

PLANTING DATE : JUNE 14

CULTIVAR : FH 6203

PLANTING DENSITY : 8,712 PLANTS PER ACRE

COOPERATING SCIENTISTS : P. SIKKEMA

SUB-PLOTS :

NUMBER OF TREATMENTS : 6

TOTAL AREA : 30 FT # 132 FT (3960 SQ FT)

TOTAL AREA : 9.0 M # 40.0 M (360 M SQ)

LOCATION : RIDGETOWN

PLANTING DISTANCE/PLOT: 9.0 M

TOTAL PLANTS REQUIRED : 120 PER PLANTING DATE PER CULTIVAR

TREATMENT NUMBER	CULTIVAR	BED WIDTH	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	TRAY SIZE
1	FM 6203	20-8-20 (400 #1s)	60 INCHES	SINGLE	12	288
2	FM 6203	200-25-50-163-40	60 INCHES	SINGLE	12	288
3	FM 6203	20-8-20	60 INCHES	SINGLE	12	406
4	FM 6203	200-25-50-163-40	60 INCHES	SINGLE	12	406
5	FM 6203	20-8-20	60 INCHES	SINGLE	12	512
6	FM 6203	200-25-50-163-40	60 INCHES	SINGLE	12	512

MATERIALS AND METHODS : NEED CONTROL : TREFLAN + SENCOR (PREPLANT INCORPORATED)  
 FERTILIZER : 100-50-300 (N-P205-K20)  
 INSECT CONTROL : AS REQUIRED  
 DISEASE CONTROL : BRAVO

ASSESSMENTS : TOTAL YIELD PLANT STAND COUNTS - 7, 14, 21 DAYS AFTER PLANTING  
 FRUIT SIZE PLANT HEIGHT AND DEVELOPMENT - 1, 2, 3 MONTHS AFTER PLANTING  
 GREEN FRUIT DATE OF HARVEST  
 CULLS



TITLE : EFFECT OF OUTSIDE STORAGE TO HARDEN OFF  
TOMATO SEEDLINGS (III)

EXPERIMENT NUMBER : TOMATO # 14

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : STORAGE TIME OUTSIDE

REPLICATIONS : 4

PLOT SIZE : ONE BED # 8.0 M

PLANTING DATE : JUNE 14

CULTIVAR : HEINZ 722

PLANTING DENSITY : 8,712 PLANTS PER ACRE

COOPERATING SCIENTISTS : P. SIKKEMA

SUB-PLOTS :

NUMBER OF TREATMENTS : 10

TOTAL AREA :

TOTAL AREA :

LOCATION :

PLANTING DISTANCE/PLOT :

TOTAL PLANTS REQUIRED :

FERTILIZER REGIME

10

50 FT # 132 FT (6600 SQ FT)

16.0 m # 40.0 M (640 m SQ)

RIDGETOWN

9.0 M

120 PER PLANTING DATE PER CULTIVAR

TREATMENT NUMBER	CULTIVAR	FERTILIZER REGIME	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	LENGTH OF TIME OUTSIDE (DAYS)
1	HEINZ 722	20-8-20 (200mls)	60 INCHES	SINGLE	12	0
2	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	0
3	HEINZ 722	20-8-20	60 INCHES	SINGLE	12	2
4	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	2
5	HEINZ 722	20-8-20	60 INCHES	SINGLE	12	4
6	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	4
7	HEINZ 722	20-8-20	60 INCHES	SINGLE	12	6
8	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	6
9	HEINZ 722	20-8-20	60 INCHES	SINGLE	12	8
10	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	8

MATERIALS AND METHODS : WEED CONTROL : TREFLAN + SENCOR (PREPLANT INCORPORATED)  
 FERTILIZER : 100-50-300 (N-P205-K20)  
 INSECT CONTROL : AS REQUIRED  
 DISEASE CONTROL : BRAVO

ASSESSMENTS : TOTAL YIELD PLANT STAND COUNTS - 7, 14, 21 DAYS AFTER PLANTING  
 FRUIT SIZE PLANT HEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 GREEN FRUIT DATE OF HARVEST  
 CULLS

TITLE : EFFECT OF OUTSIDE STORAGE TO HARDEN OFF  
TOMATO SEEDLINGS (IV)

EXPERIMENT NUMBER : TOMATO # 15

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : STORAGE TIME OUTSIDE

REPLICATIONS : 4

PLOT SIZE : ONE BED + 8.0 M

PLANTING DATE : JUNE 14

CULTIVAR : HEINZ 722

PLANTING DENSITY : 8,712 PLANTS PER ACRE

COOPERATING SCIENTISTS : P. SIKKEMA

SUB-PLOTS :

NUMBER OF TREATMENTS : 10

TOTAL AREA :

TOTAL AREA :

LOCATION :

PLANTING DISTANCE/PLOT :

TOTAL PLANTS REQUIRED :

FERTILIZER REGIME

10

50 FT + 132 FT (6600 SQ FT)

16.0 M + 40.0 M (640 M SQ)

RIDGETOWN

9.0 M

120 PER PLANTING DATE PER CULTIVAR

TREATMENT NUMBER	CULTIVAR	FERTILIZER REGIME	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	LENGTH OF TIME OUTSIDE (DAYS)
1	HEINZ 722	20-8-20 (400mls)	60 INCHES	SINGLE	12	0
2	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	0
3	HEINZ 722	20-8-20	60 INCHES	SINGLE	12	2
4	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	2
5	HEINZ 722	20-8-20	60 INCHES	SINGLE	12	4
6	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	4
7	HEINZ 722	20-8-20	60 INCHES	SINGLE	12	6
8	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	6
9	HEINZ 722	20-8-20	60 INCHES	SINGLE	12	8
10	HEINZ 722	200-25-50-163-40	60 INCHES	SINGLE	12	8

MATERIALS AND METHODS :  
 WEED CONTROL : TREFLAN + SENCOR (PREPLANT INCORPORATED)  
 FERTILIZER : 100-50-300 (N-P205-K20)  
 INSECT CONTROL : AS REQUIRED  
 DISEASE CONTROL : BRAVO

ASSESSMENTS :  
 TOTAL YIELD  
 FRUIT SIZE  
 GREEN FRUIT  
 CULLS  
 PLANT STAND COUNTS - 7, 14, 21 DAYS AFTER PLANTING  
 PLANT HEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 DATE OF HARVEST

TITLE : EFFECT OF OUTSIDE STORAGE TO HARDEN OFF  
TOMATO SEEDLINGS (V)

EXPERIMENT NUMBER : TOMATO # 16

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : STORAGE TIME OUTSIDE

REPLICATIONS : 4

PLOT SIZE : ONE BED \* 8.0 M

PLANTING DATE : JUNE 14

CULTIVAR : FM 6203

PLANTING DENSITY : 8,712 PLANTS PER ACRE

COOPERATING SCIENTISTS : P. SIKKEMA

SUB-PLOTS :

NUMBER OF TREATMENTS :

TOTAL AREA :

TOTAL AREA :

LOCATION :

PLANTING DISTANCE/PLOT :

TOTAL PLANTS REQUIRED :

FERTILIZER REGIME

10

50 FT \* 132 FT (6600 SQ FT)

16.0 M \* 40.0 M (640 M SQ)

RIDGETOWN

9.0 M

120 PER PLANTING DATE PER CULTIVAR

TREATMENT NUMBER	CULTIVAR	FERTILIZER REGIME	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	LENGTH OF TIME OUTSIDE (DAYS)
1	FM 6203	20-8-20 (200mls)	60 INCHES	SINGLE	12	0
2	FM 6203	200-25-50-163-40	60 INCHES	SINGLE	12	0
3	FM 6203	20-8-20	60 INCHES	SINGLE	12	2
4	FM 6203	200-25-50-163-40	60 INCHES	SINGLE	12	2
5	FM 6203	20-8-20	60 INCHES	SINGLE	12	4
6	FM 6203	200-25-50-163-40	60 INCHES	SINGLE	12	4
7	FM 6203	20-8-20	60 INCHES	SINGLE	12	6
8	FM 6203	200-25-50-163-40	60 INCHES	SINGLE	12	6
9	FM 6203	20-8-20	60 INCHES	SINGLE	12	8
10	FM 6203	200-25-50-163-40	60 INCHES	SINGLE	12	8

MATERIALS AND METHODS : WEED CONTROL : TREFLAN + SENCOR (PREPLANT INCORPORATED)  
 FERTILIZER : 100-50-300 (N-P205-K20)  
 INSECT CONTROL : AS REQUIRED  
 DISEASE CONTROL : BRAVO

ASSESSMENTS : TOTAL YIELD PLANT STAND COUNTS - 7, 14, 21 DAYS AFTER PLANTING  
 FRUIT SIZE PLANT HEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 GREEN FRUIT DATE OF HARVEST  
 CULLS

TITLE : EFFECT OF OUTSIDE STORAGE TO HARDEN OFF  
TOMATO SEEDLINGS (VI)

EXPERIMENT NUMBER : TOMATO # 17

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS : STORAGE TIME OUTSIDE

REPLICATIONS : 4

PLOT SIZE : ONE BED # 8.0 M

PLANTING DATE : JUNE 14

CULTIVAR : FM 6203

PLANTING DENSITY : 8,712 PLANTS PER ACRE

COOPERATING SCIENTISTS : P.SIKKEMA

SUB-PLOTS : FERTILIZER REGIME

NUMBER OF TREATMENTS : 10

TOTAL AREA : 50 FT # 132 FT (6600 SQ FT)

TOTAL AREA : 16.0 M # 40.0 M (640 M SQ)

LOCATION : RIDGETOWN

PLANTING DISTANCE/PLOT : 9.0 M

TOTAL PLANTS REQUIRED : 120 PER PLANTING DATE PER CULTIVAR

TREATMENT NUMBER	CULTIVAR	FERTILIZER REGIME	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	LENGTH OF TIME OUTSIDE (DAYS)
1	FM 6203	20-8-20 (400mls)	60 INCHES	SINGLE	12	0
2	FM 6203	200-25-50-163-40	60 INCHES	SINGLE	12	0
3	FM 6203	20-8-20	60 INCHES	SINGLE	12	2
4	FM 6203	200-25-50-163-40	60 INCHES	SINGLE	12	2
5	FM 6203	20-8-20	60 INCHES	SINGLE	12	4
6	FM 6203	200-25-50-163-40	60 INCHES	SINGLE	12	4
7	FM 6203	20-8-20	60 INCHES	SINGLE	12	6
8	FM 6203	200-25-50-163-40	60 INCHES	SINGLE	12	6
9	FM 6203	20-8-20	60 INCHES	SINGLE	12	8
10	FM 6203	200-25-50-163-40	60 INCHES	SINGLE	12	8

MATERIALS AND METHODS : WEED CONTROL : TREFLAM + SENCOR (PREPLANT INCORPORATED)  
 FERTILIZER : 100-50-300 (N-P205-K20)  
 INSECT CONTROL : AS REQUIRED  
 DISEASE CONTROL : BRAVO

ASSESSMENTS : TOTAL YIELD PLANT STAND COUNTS - 7,14,21 DAYS AFTER PLANTING  
 FRUIT SIZE PLANT HEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 GREEN FRUIT DATE OF HARVEST  
 CULLS

TITLE : EFFECT OF TRAY SIZE ON PEPPER SEEDLINGS (1)

EXPERIMENT NUMBER : PEPPER # 10

EXPERIMENTAL DESIGN : SPLIT PLOT

MAIN PLOTS :	TRAY SIZE	SUB-PLOTS :	FERTILIZER REGIME
REPLICATIONS :	4	NUMBER OF TREATMENTS :	6
PLOT SIZE :	ONE BED # 8.0	TOTAL AREA :	30 FT # 132 FT (3960 SQ FT)
PLANTING DATE :	HAY 3	TOTAL AREA :	9.0 M # 40.0 M (360 M SQ)
CULTIVAR :	KEYSTONE RESISTANT GIANT	LOCATION :	RIDGETOWN
PLANTING DENSITY :	8,712 PLANTS PER ACRE	PLANTING DISTANCE/PLOT:	9.0 M
COOPERATING SCIENTISTS :	P.SIKKEMA	TOTAL PLANTS REQUIRED :	120 PER PLANTING DATE PER CULTIVAR

TREATMENT NUMBER	CULTIVAR	BED WIDTH	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	TRAY SIZE
1	KEYSTONE RESISTANT GIANT	20-20-20	60 INCHES	SINGLE	12	288
2	KEYSTONE RESISTANT GIANT	200-25-50-163-40	60 INCHES	SINGLE	12	288
3	KEYSTONE RESISTANT GIANT	20-20-20	60 INCHES	SINGLE	12	406
4	KEYSTONE RESISTANT GIANT	200-25-50-163-40	60 INCHES	SINGLE	12	406
5	KEYSTONE RESISTANT GIANT	20-20-20	60 INCHES	SINGLE	12	512
6	KEYSTONE RESISTANT GIANT	200-25-50-163-40	60 INCHES	SINGLE	12	512

MATERIALS AND METHODS :

WEED CONTROL :  
 FERTILIZER :  
 INSECT CONTROL :  
 DISEASE CONTROL :

ASSESSMENTS :

TOTAL YIELD  
 FRUIT SIZE  
 GREEN FRUIT  
 CULLS

PLANT STAND COUNTS - 7, 14, 21 DAYS AFTER PLANTING  
 PLANT HEIGHT - 1, 2, 3 MONTHS AFTER PLANTING  
 PLANT DEVELOPMENT NOTES - EVERY TWO WEEKS  
 DATE OF HARVEST

TITLE : EFFECT OF TRAY SIZE ON PEPPER SEEDLINGS (II)

EXPERIMENT NUMBER : PEPPER # 13

EXPERIMENTAL DESIGN : RCBD

REPLICATIONS : 4 NUMBER OF TREATMENTS : 3

PLOT SIZE : ONE BED \* 0.0 TOTAL AREA : 15 FT \* 132 FT (3960 SQ FT)

PLANTING DATE : JUNE 14 TOTAL AREA : 9.0 M \* 40.0 M (360 M SQ)

CULTIVAR : KEYSTONE RESISTANT GIANT LOCATION : RIDGETOWN

PLANTING DENSITY : 8,712 PLANTS PER ACRE PLANTING DISTANCE/PLOT: 9.0 M

COOPERATING SCIENTISTS : P.SIKKEMA TOTAL PLANTS REQUIRED : 120 PER PLANTING DATE PER CULTIVAR

TREATMENT NUMBER	CULTIVAR	BED WIDTH	BED WIDTH	SINGLE OR DOUBLE ROW	DISTANCE BETWEEN TWO PLANTS (IN)	TRAY SIZE
1	KEYSTONE RESISTANT GIANT	20-8-20	60 INCHES	SINGLE	12	288
2	KEYSTONE RESISTANT GIANT	20-8-20	60 INCHES	SINGLE	12	406
3	KEYSTONE RESISTANT GIANT	20-8-20	60 INCHES	SINGLE	12	512

MATERIALS AND METHODS :

WEED CONTROL :

FERTILIZER :

INSECT CONTROL :

DISEASE CONTROL :

ASSESSMENTS :

TOTAL YIELD

FRUIT SIZE

GREEN FRUIT

CULLS

PLANT STAND COUNTS - 7,14,21 DAYS AFTER PLANTING

PLANT HEIGHT AND DEVELOPMENT- 1, 2, 3 MONTHS AFTER PLANTING

DATE OF HARVEST