1990 VEGETABLE RESEARCH PROGRAM

PURPOSE OF THIS BOOKLET

This booklet is provided as a guide to the 1990 vegetable research plots. All of the experiments outlined in this booklet are located on the Ridgetown College of Agricultural Technology research farm.

ACKNOWLEDGEMENT

Funding for the 1990 research program was provided by:

a) Ontario Vegetable Growers' Marketing Board.
b) Processing Tomato Seedling Plant Growers' Marketing Board.
c) Environmental Youth Corps '90.

The support of the above organizations is appreciated.

PERSONNEL

The efforts of the two horticultural research technicians, Robert Squire and Gregory Watt is greatly appreciated as well as the work of the four summer students, Derek Bergey, Robert Konecny, Leigh Laur and Tracy Levy.

P.H. Sikkema
Horticulturalist
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TITLE: THE EFFECT OF SOILLESS MIX, FERTILIZER REGIME, AND LENGTH OF OUTSIDE STORAGE ON THE ESTABLISHMENT OF PLUG TOMATO TRANSPLANTS

EXPERIMENT NUMBER: TOMATO # 90-1

EXPERIMENT DETAILS

EXPERIMENTAL DESIGN: SPLIT-SPLIT PLOT DESIGN
MAIN PLOTS: SOILLESS MIX
SUB-PLOTS: FERTILIZER REGIME
SUB-SUB-PLOTS: LENGTH OF OUTSIDE STORAGE
REPLICATIONS: 4
NUMBER OF TREATMENTS: 20

GREENHOUSE PROGRAM

CULTIVAR: OHIO 8245
TRAY SIZE: 288 CELLS
SEEDING DATE: MARCH 19
SOILLESS MIXTURE: AS LISTED
SEED COVERING: MEDIUM HORTICULTURAL GRADE VERMICULITE
GERMINATION: GERMINATION CHAMBER - 3 DAYS AT 24 C
FERTILIZER REGIME: AS LISTED
FERTILIZER VOLUME: 300 ML OF SOLUTION PER TRAY
FIRST DAY FOR FERTILIZER: EIGHTH DAY AFTER SEEDING
FERTILIZER FREQUENCY: ONCE PER DAY
WATERING: AS REQUIRED IN THE AFTERNOON
FURNACE: 13 C
LOUVRES: 18 C
FANS: 21 C
TRAYS REQUIRED: 80 - ONE TRAY PER PLOT

FIELD PROGRAM

TRANSPLANTING DATE: MAY 1
LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: SOILS # 9
SOIL TYPE: BROOKSTON CLAY LOAM
PLOT SIZE: ONE PLOT (1.5 M) 10.0 M
EXPERIMENT SIZE: 30.0 M
PLANT POPULATION: 8,712 PLANTS PER ACRE
PLANT CONFIGURATION: SINGLE ROWS
STARTER FERTILIZER: 6-24-6 AT 1 L PER 75 L OF WATER
RATE OF STARTER SOLUTION: 100 ML PER TRANSPLANT
FERTILIZER: 100-50-300 (N-P205-K20)
WEED CONTROL: TREFLAN (0.75 KG/HA) + SENCOR (0.5 KG/HA) PPI
INSECT CONTROL: AMBUSH (100 G/HA) - AS REQUIRED
DISEASE CONTROL: BRAVO (1.5 KG/HA) - TOM CAST
FRUIT RIPENING: ETHREL (1.2 KG/HA) - MATURE GREEN STAGE
TITLE: THE EFFECT OF SOILLESS MIX, FERTILIZER REGIME, AND LENGTH OF OUTSIDE STORAGE ON THE ESTABLISHMENT OF PLUG TOMATO TRANSPLANTS (I)

EXPERIMENT NUMBER: TOMATO # 90-1

TREATMENT LIST

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ASSESSMENTS:

GREENHOUSE: WEEK 5 - VISUAL FOLIAR RATINGS
            WEEK 5 - PLANT HEIGHT
            WEEK 6 - VISUAL FOLIAR RATINGS
            WEEK 6 - PLANT HEIGHT

FIELD: PLANT STAND COUNTS - 1, 2, 3, 4 & 8 WEEKS AFTER TRANSPLANTING
       YIELD - TOTAL - BREAKERS. MARKETABLE & CULLS

26-Jun-90
TITLE: THE EFFECT OF SOILLESS MIX, FERTILIZER REGIME, AND LENGTH OF OUTSIDE STORAGE ON THE ESTABLISHMENT OF PLUG TOMATO TRANSPLANTS (II)

EXPERIMENT NUMBER: TOMATO # 90-2

EXPERIMENT DETAILS
---------------------

EXPERIMENTAL DESIGN: SPLIT-SPLIT PLOT DESIGN
MAIN PLOTS: SOILLESS MIX
SUB-PLOTS: FERTILIZER REGIME
SUB-SUB-PLOTS: LENGTH OF OUTSIDE STORAGE
REPLICATIONS: 4
NUMBER OF TREATMENTS: 20

GREENHOUSE PROGRAM
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CULTIVAR: OHIO 8245
TRAY SIZE: 288 CELLS
SEEDING DATE: APRIL 9
SOILLESS MIXTURE: AS LISTED
SEED COVERING: MEDIUM HORTICULTURAL GRADE VERMICULITE
GERMINATION: GERMINATION CHAMBER - 3 DAYS AT 24 C
FERTILIZER REGIME: AS LISTED
FERTILIZER VOLUME: 300 ML OF SOLUTION PER TRAY
FIRST DAY FOR FERTILIZER: EIGHTH DAY AFTER SEEDING
FERTILIZER FREQUENCY: ONCE PER DAY
WATERING: AS REQUIRED IN THE AFTERNOON
FURNACE: 13 C
LOUVRES: 15 C
FANS: 21 C
TRAYS REQUIRED: 80 - ONE TRAY PER PLOT

FIELD PROGRAM
--------------

TRANSPLANTING DATE: MAY 15
LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: SOILS # 9
SOIL TYPE: BROOKSTON CLAY LOAM
PLOT SIZE: ONE PLOT (1.5 M) 10.0 M
EXPERIMENT SIZE: 30.0 M
PLANT POPULATION: 8,712 PLANTS PER ACRE
PLANT CONFIGURATION: SINGLE ROWS
STARTER FERTILIZER: 6-24-6 AT 1 L PER 75 L OF WATER
RATE OF STARTER SOLUTION: 100 ML PER TRANSPLANT
FERTILIZER: 100 - 50 - 300 (N-P205-K20)
WEED CONTROL: TREFLAN (0.75 KG/HA) + SENCOR (0.5 KG/HA) PPI
INSECT CONTROL: AMBUSH (100 G/HA) - AS REQUIRED
DISEASE CONTROL: BRAVO (1.5 KG/HA) - TOM CAST
FRUIT RIPENING: ETHREL (1.2 KG/HA) - MATURE GREEN STAGE

26-Jun-90
## Title:
The Effect of Soilless Mix, Fertilizer Regime, and Length of Outside Storage on the Establishment of Plug Tomato Transplants (II)

### Experiment Number:
TOMATO # 90-2

### Treatment List

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<th>Soilless Mix</th>
<th>Fertilizer Regime</th>
<th>Length of Distance (Days)</th>
<th>Time Between Two Plants (CM)</th>
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### Assessments:

**Greenhouse:**
- Week 5 - Visual Foliar Ratings
- Week 5 - Plant Height
- Week 6 - Visual Foliar Ratings
- Week 6 - Plant Height

**Field:**
- Plant Stand Counts - 1, 2, 3, 4 & 8 weeks after transplanting
- Yield - Total - Breakers, Marketable & Culls

26-Jun-90
TITLE: THE EFFECT OF SOILLESS MIX, FERTILIZER REGIME, AND LENGTH OF OUTSIDE STORAGE ON THE ESTABLISHMENT OF PLUG TOMATO TRANSPLANTS (III)

EXPERIMENT NUMBER: TOMATO # 90-3

EXPERIMENT DETAILS

EXPERIMENTAL DESIGN: SPLIT-SPLIT PLOT DESIGN
MAIN PLOTS: SOILLESS MIX
SUB-PLOTS: FERTILIZER REGIME
SUB-SUB-PLOTS: LENGTH OF OUTSIDE STORAGE
REPLICATIONS: 4
NUMBER OF TREATMENTS: 20

GREENHOUSE PROGRAM

CULTIVAR: OHIO 8245
TRAY SIZE: 288 CELLS
SEEDING DATE: APRIL 16
SOILLESS MIXTURE: AS LISTED
SEED COVERING: MEDIUM HORTICULTURAL GRADE VERMICULITE
GERMINATION: GERMINATION CHAMBER - 3 DAYS AT 24 C
FERTILIZER REGIME: AS LISTED
FERTILIZER VOLUME: 300 ML OF SOLUTION PER TRAY
FIRST DAY FOR FERTILIZER: EIGHTH DAY AFTER SEEDING
FERTILIZER FREQUENCY: ONCE PER DAY
WATERING: AS REQUIRED IN THE AFTERNOON
FURNACE: 13 C
LOUVRES: 18 C
FANS: 21 C
TRAYS REQUIRED: 80 - ONE TRAY PER PLOT

FIELD PROGRAM

TRANSPLANTING DATE: MAY 29
LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: SOILS # 2
SOIL TYPE: BROOKSTON CLAY LOAM
PLOT SIZE: ONE PLOT (1.5 M) X 10.0 M
EXPERIMENT SIZE: 30.0 M
PLANT POPULATION: 8,712 PLANTS PER ACRE
PLANT CONFIGURATION: SINGLE ROWS
STARTER FERTILIZER: 6-24-6 AT 1 L PER 75 L OF WATER
RATE OF STARTER SOLUTION: 100 ML PER TRANSPLANT
FERTILIZER: 100-50-300 (N-P2O5-K2O)
WEED CONTROL: TREFLAN (0.75 KG/HA) + SENCOR (0.5 KG/HA) PPI
INSECT CONTROL: AMBUSH (100 G/HA) - AS REQUIRED
DISEASE CONTROL: BRAVO (1.5 KG/HA) - TOM CAST
FRUIT RIPENING: ETHREL (1.2 KG/HA) - MATURE GREEN STAGE

26-Jun-90
## Title
THE EFFECT OF SOILLESS MIX, FERTILIZER REGIME, AND LENGTH OF
OUTSIDE STORAGE ON THE ESTABLISHMENT OF PLUG TOMATO
TRANSPLANTS (III)

## Experiment Number
TOMATO # 90-3

## Treatment List

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<th>Fertilizer Regime</th>
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<th>Final Number of Plants Per Plot</th>
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## Assessments

**Greenhouse:**
- Week 5 - Visual Foliar Ratings
- Week 5 - Plant Height
- Week 6 - Visual Foliar Ratings
- Week 6 - Plant Height

**Field:**
- Plant Stand Counts - 1, 2, 3, 4 & 8 Weeks After Transplanting
- Yield - Total - Breakers, Marketable & Culls

26-Jun-90
TITLE : THE EFFECT OF SOILLESS MIX, FERTILIZER REGIME, AND LENGTH OF OUTSIDE STORAGE ON THE ESTABLISHMENT OF PLUG TOMATO TRANSPLANTS (IV)

EXPERIMENT NUMBER : TOMATO # 90-4

EXPERIMENT DETAILS

EXPERIMENTAL DESIGN : SPLIT-SPLIT PLOT DESIGN
MAIN PLOTS : SOILLESS MIX
SUB-PLOTS : FERTILIZER REGIME
SUB-SUB-PLOTS : LENGTH OF OUTSIDE STORAGE
REPLICATIONS : 4
NUMBER OF TREATMENTS : 20

GREENHOUSE PROGRAM

CULTIVAR : OHIO 8245
TRAY SIZE : 288 CELLS
SEEDING DATE : APRIL 30
SOILLESS MIXTURE : AS LISTED
SEED COVERING : MEDIUM HORTICULTURAL GRADE VERMICULITE
GERMINATION : GERMINATION CHAMBER - 3 DAYS AT 24 C
FERTILIZER REGIME : AS LISTED
FERTILIZER VOLUME : 300 ML OF SOLUTION PER TRAY
FIRST DAY FOR FERTILIZER : EIGHTH DAY AFTER SEEDING
FERTILIZER FREQUENCY : ONCE PER DAY
WATERING : AS REQUIRED IN THE AFTERNOON
FURNACE : 13 C
LOUVRES : 18 C
FANS : 21 C
TRAYS REQUIRED : 80 - ONE TRAY PER PLOT

FIELD PROGRAM

TRANSPLANTING DATE : JUNE 12
LOCATION : RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION : SOILS # 2
SOIL TYPE : BROOKSTON CLAY LOAM
PLOT SIZE : ONE PLOT (1.5 M) * 10.0 M
EXPERIMENT SIZE : 30.0 M
PLANT POPULATION : 8.712 PLANTS PER ACRE
PLANT CONFIGURATION : SINGLE ROWS
STARTER FERTILIZER : 6-24-6 AT 1 L PER 75 L OF WATER
RATE OF STARTER SOLUTION : 100 ML PER TRANSPLANT
FERTILIZER : 100-50-300 (N-P2O5-K2O)
WEED CONTROL : TREFLAN (0.75 KG/HA) + SENCOR (0.5 KG/HA) PPI
INSECT CONTROL : AMBUSH (100 G/HA) - AS REQUIRED
DISEASE CONTROL : BRAVO (1.5 KG/HA) - TOM CAST
FRUIT RIPENING : ETHREL (1.2 KG/HA) - MATURE GREEN STAGE

26-Jun-90
**TITLE:** THE EFFECT OF SOILLESS MIX, FERTILIZER REGIME, AND LENGTH OF OUTSIDE STORAGE ON THE ESTABLISHMENT OF PLUG TOMATO TRANSPLANTS (IV)

**EXPERIMENT NUMBER:** TOMATO # 90-4

**TREATMENT LIST**

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**ASSESSMENTS:**

**GREENHOUSE:** WEEK 5 - VISUAL FOLIAR RATINGS
WEEK 5 - PLANT HEIGHT
WEEK 6 - VISUAL FOLIAR RATINGS
WEEK 6 - PLANT HEIGHT

**FIELD:** PLANT STAND COUNTS - 1, 2, 3, 4 & 8 WEEKS AFTER TRANSPLANTING
YIELD - TOTAL - BREAKERS, MARKETABLE & CULLS

26-Jun-90
TITLE: FIELD EVALUATION OF PLUG TRAY SIZE AND DIFFERENT FERTILIZER REGIMES IN THE GREENHOUSE

EXPERIMENT NUMBER: TOMATO # 90-5

SCIENTISTS: DR. A LIPTAY HARROW, ONT MR. P SIKKEMA RIDGETOWN, ONT

EXPERIMENT DETAILS
-------------

EXPERIMENTAL DESIGN: SPLIT PLOT DESIGN

MAIN PLOTS: TRAY SIZE

SUB-PLOTS: FERTILIZER REGIME & VOLUME

REPLICATIONS: 4

NUMBER OF TREATMENTS: 20

GREENHOUSE PROGRAM
-------------------

CULTIVAR: OHIO 8245

TRAY SIZE: 288 & 406 CELLS

SEEDING DATE: APRIL 9

SOILLESS MIXTURE: PRO-MIX P

SEED COVERING: MEDIUM HORTICULTURAL GRADE VERMICULITE

GERMINATION: GERMINATION CHAMBER - 3 DAYS AT 24°C

FERTILIZER REGIME: AS LISTED

FERTILIZER VOLUME: AS LISTED

FIRST DAY FOR FERTILIZER: EIGHTH DAY AFTER SEEDING

FERTILIZER FREQUENCY: ONCE PER DAY

WATERING: AS REQUIRED IN THE AFTERNOON

FURNACE: 13°C

LOUVRES: 18°C

FANS: 21°C

TRAYS REQUIRED: 80 - ONE TRAY PER PLOT

FIELD PROGRAM
-------------

TRANSPLANTING DATE: MAY 23

LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY

ON FARM LOCATION: H & B RANGE # 36

SOIL TYPE: BROOKSTON CLAY LOAM SANDY SPOT PHASE

PLOT SIZE: ONE PLOT (1.5 M) * 9.0 M

EXPERIMENT SIZE: 30.0 M

PLANT POPULATION: 8,712 PLANTS PER ACRE

PLANT CONFIGURATION: SINGLE ROWS

STARTER FERTILIZER: 6-24-6 AT 1 L PER 75 L OF WATER

RATE OF STARTER SOLUTION: 100 ML PER TRANSPLANT

FERTILIZER: 100-50-300 (N-P2O5-K2O)

WEED CONTROL: TREFLAN (0.75 KG/HA) + SENCOR (0.5 KG/HA) PPI

INSECT CONTROL: AMBUSH (100 G/HA) - AS REQUIRED

DISEASE CONTROL: BRAVO (1.5 KG/HA) - TOM CAST

FRUIT RIPENING: ETHREL (1.2 KG/HA) - MATURE GREEN STAGE

27-Jun-90
**TITLE:** FIELD EVALUATION OF PLUG TRAY SIZE AND DIFFERENT FERTILIZER REGIMES IN THE GREENHOUSE

**EXPERIMENT NUMBER:** TOMATO # 90-5

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**ASSESSMENTS:**

**GREENHOUSE:**
- WEEK 5 - VISUAL FOLIAR RATINGS
- WEEK 5 - PLANT HEIGHT
- WEEK 6 - VISUAL FOLIAR RATINGS
- WEEK 6 - PLANT HEIGHT

**FIELD:**
- PLANT STAND COUNTS - 1, 2, 3, 4 & 8 WEEKS AFTER TRANSPLANTING
- YIELD - TOTAL - BREAKERS, MARKETABLE & CULLS

27-Jun-90
TITLE: THE EFFECT OF BED WIDTH AND PLANT CONFIGURATION ON THE MATURITY AND YIELD OF OHIO 8245 TOMATOES

EXPERIMENT NUMBER: TOMATO # 90-6

EXPERIMENT DETAILS

EXPERIMENTAL DESIGN: SPLIT-SPLIT PLOT DESIGN
MAIN PLOTS: PLANT POPULATION
SUB-PLOTS: BED WIDTH
SUB-SUB-PLOTS: PLANT CONFIGURATION
REPLICATIONS: 4
NUMBER OF TREATMENTS: 60

GREENHOUSE PROGRAM

CULTIVAR: OHIO 8245
TRAY SIZE: 288 CELLS
SEEDING DATE: APRIL 9
SOILLESS MIXTURE: AS LISTED Metro Mix 230
SEED COVERING: MEDIUM HORTICULTURAL GRADE VERMICULITE
GERMINATION: GERMINATION CHAMBER - 3 DAYS AT 24 C
FERTILIZER REGIME: 150-48-21 7-64-40
5-11-26 + CALCIUM NITRATE & MAGNESIUM NITRATE
FERTILIZER VOLUME: 300 ML OF SOLUTION PER TRAY
FIRST DAY FOR FERTILIZER: EIGHTH DAY AFTER SEEDING
FERTILIZER FREQUENCY: ONCE PER DAY
WATERING: AS REQUIRED IN THE AFTERNOON
FURNACE: 13 C
LOUVRES: 18 C
FANS: 21 C
TRAYS REQUIRED: 60 - ONE TRAY PER TREATMENT

FIELD PROGRAM

TRANSPLANTING DATE: MAY 25 & 26
LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: H & B RANGE 39 & 40
SOIL TYPE: BROOKSTON CLAY LOAM
PLOT SIZE: AS LISTED
EXPERIMENT SIZE: 106 M
PLANT POPULATION: AS LISTED
PLANT CONFIGURATION: AS LISTED
STARTER FERTILIZER: 6-24-6 AT 1 L PER 75 L OF WATER
RATE OF STARTER SOLUTION: 100 ML PER TRANSPLANT
FERTILIZER: 100-50-300 (N-P205-K20)
WEED CONTROL: TREFLAN (0.75 KG/HA) + SENCOR (0.5 KG/HA) PPI
INSECT CONTROL: AMBUSH (100 G/HA) - AS REQUIRED
DISEASE CONTROL: BRAVO (1.5 KG/HA) - TOM CAST
FRUIT RIPENING: ETHREL (1.2 KG/HA) - MATURE GREEN STAGE

27-Jun-90
## Title: The Effect of Bed Width and Plant Configuration on the Maturity and Yield of Ohio 8245 Tomatoes

### Experiment Number: Tomato # 90-6

### Treatment List

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<th>DISTANCE BETWEEN DOUBLE ROWS (IN)</th>
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**TITLE:** THE EFFECT OF BED WIDTH AND PLANT CONFIGURATION ON THE MATURITY AND YIELD OF OHIO 8245 TOMATOES

**EXPERIMENT NUMBER:** TOMATO # 90-6

**TREATMENT LIST**

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**ASSESSMENTS:**

- **DATE OF FIRST FLOWER**
- **DATE OF MATURITY**
- **SOLIDS CONTENT**
- **YIELD - TOTAL - BREAKERS, MARKETABLE, & CULLS**

27-Jun-90
TITLE: THE EFFECT OF STARTER FERTILIZER CONCENTRATION AND RATE ON THE ESTABLISHMENT AND YIELD OF PLUG TOMATO TRANSPLANTS (I)

EXPERIMENT NUMBER: TOMATO # 90-7

EXPERIMENT DETAILS
EXPERIMENTAL DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN
REPLICATIONS: 4
NUMBER OF TREATMENTS: 27

GREENHOUSE PROGRAM
CULTIVAR: OHIO 8245
TRAY SIZE: 288 CELLS
SEEDING DATE: APRIL 9
SOILLESS MIXTURE: METRO MIX 220
SEED COVERING: MEDIUM HORTICULTURAL GRADE VERMICULITE
GERMINATION: GERMINATION CHAMBER - 3 DAYS AT 24 C
FERTILIZER REGIME: 150-48-217-64-40
5-11-26 + CALCIUM NITRATE & MAGNESIUM NITRATE
FERTILIZER VOLUME: 300 ML OF SOLUTION PER TRAY
FIRST DAY FOR FERTILIZER: EIGHTH DAY AFTER SEEDING
FERTILIZER FREQUENCY: ONCE PER DAY
WATERING: AS REQUIRED IN THE AFTERNOON
FURNACE: 13 C
LOUVRES: 18 C
FANS: 21 C
TRAYS REQUIRED: 27 - ONE TRAY PER TREATMENT

FIELD PROGRAM
TRANSPLANTING DATE: MAY 24
LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: H & B RANGE # 36
SOIL TYPE: BROOKSTON CLAY LOAM SANDY SPOT PHASE
PLOT SIZE: ONE PLOT (1.5 M) X 9.0 M
EXPERIMENT SIZE: 40.5 M
PLANT POPULATION: 8,712 PLANTS PER ACRE
PLANT CONFIGURATION: SINGLE ROWS
STARTER FERTILIZER: AS LISTED
RATE OF STARTER SOLUTION: AS LISTED
FERTILIZER: 100-50-300 (N-P2O5-K2O)
WEED CONTROL: TREFLAN (0.75 KG/HA) + SENCOR (0.5 KG/HA) PPI
INSECT CONTROL: AMBUSH (100 G/HA) - AS REQUIRED
DISEASE CONTROL: BRAVO (1.5 KG/HA) - TOM CAST
FRUIT RIPENING: ETHREL (1.2 KG/HA) - MATURE GREEN STAGE

27-Jun-90
**TITLE:** THE EFFECT OF STARTER FERTILIZER CONCENTRATION AND RATE ON THE
ESTABLISHMENT AND YIELD OF PLUG TOMATO TRANSPLANTS

**EXPERIMENT NUMBER:** TOMATO # 90-7

**TREATMENT LIST**

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**ASSESSMENTS:**

**LAB:** STARTER FERTILIZER ANALYSIS - NUTRIENTS AND EC

**FIELD:** PLANT PHYTOTOXICITY - 1 & 2 WEEKS AFTER TRANSPLANTING

PLANT STAND COUNTS - 1, 2, 3, 4 & 8 WEEKS AFTER TRANSPLANTING

YIELD - TOTAL - BREAKERS, MARKETABLE & CULLS

27-Jun-90
TITLE: THE EFFECT OF STARTER FERTILIZER CONCENTRATION AND RATE ON THE ESTABLISHMENT AND YIELD OF PLUG TOMATO TRANSPLANTS (II)

EXPERIMENT NUMBER: TOMATO # 90-9

EXPERIMENT DETAILS

EXPERIMENTAL DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN
REPLICATIONS: 4
NUMBER OF TREATMENTS: 27

GREENHOUSE PROGRAM

CULTIVAR: HEINZ 9464
TRAY SIZE: 288 CELLS
SEEDING DATE: MARCH 26
SOILLESS MIXTURE: METRO MIX 220
SEED COVERING: MEDIUM HORTICULTURAL GRADE VERMICULITE
GERMINATION: GERMINATION CHAMBER - 3 DAYS AT 24 C
FERTILIZER REGIME: 150-48-217-64-40
5-11-26 + CALCIUM NITRATE & MAGNESIUM NITRATE
FERTILIZER VOLUME: 300 ML OF SOLUTION PER TRAY
FIRST DAY FOR FERTILIZER: EIGHTH DAY AFTER SEEDING
FERTILIZER FREQUENCY: ONCE PER DAY
WATERING: AS REQUIRED IN THE AFTERNOON
FURNACE: 13 C
LOUVRES: 18 C
FANS: 21 C
TRAYS REQUIRED: 27 - ONE TRAY PER TREATMENT

FIELD PROGRAM

TRANSPLANTING DATE: MAY 8
LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: H & B RANGE # 4
SOIL TYPE: BURFORD GRAVELLY LOAM
PLOT SIZE: ONE PLOT (1.5 M) * 7.0 M
EXPERIMENT SIZE: 40.5 M
PLANT POPULATION: 8,712 PLANTS PER ACRE
PLANT CONFIGURATION: SINGLE ROWS
STARTER FERTILIZER: AS LISTED
RATE OF STARTER SOLUTION: AS LISTED
FERTILIZER: 100-50-300 (N-P205-K20)
WEED CONTROL: TREFLAN (0.75 KG/HA) + SENCOR (0.5 KG/HA) PPI
INSECT CONTROL: AMBUSH (100 G/HA) - AS REQUIRED
DISEASE CONTROL: BRAVO (1.5 KG/HA) - TOM CAST
FRUIT RIPENING: ETHREL (1.2 KG/HA) - MATURE GREEN STAGE

27-Jun-90
TITLE: THE EFFECT OF STARTER FERTILIZER CONCENTRATION AND RATE ON THE EMBLASSMENT AND YIELD OF PLUG TOMATO TRANSPLANTS (II)

EXPERIMENT NUMBER: TOMATO # 90-9

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ASSESSMENTS:

LAB: STARTER FERTILIZER ANALYSIS - NUTRIENTS AND EC

FIELD: PLANT PHYTOTOXICITY - 1 & 2 WEEKS AFTER TRANSPLANTING
       PLANT STAND COUNTS - 1, 2, 3, 4 & 8 WEEKS AFTER TRANSPLANTING
       YIELD - TOTAL - BREAKERS, MARKETABLE & CULLS

27-Jun-90
TITLE: THE EFFECT OF STARTER FERTILIZER CONCENTRATION AND RATE ON THE ESTABLISHMENT AND YIELD OF PLUG TOMATO TRANSPLANTS (III)

EXPERIMENT NUMBER: TOMATO # 90-10

EXPERIMENT DETAILS

EXPERIMENTAL DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN
REPLICATIONS: 4
NUMBER OF TREATMENTS: 27

GREENHOUSE PROGRAM

CULTIVAR: OHIO 8245
TRAY SIZE: 288 CELLS
SEEDING DATE: APRIL 23
SOILLESS MIXTURE: METRO MIX 220
SEED COVERING: MEDIUM HORTICULTURAL GRADE VERMICULITE
GERMINATION: GERMINATION CHAMBER - 3 DAYS AT 24 C
FERTILIZER REGIME: 150-48-217-64-40
FERTILIZER VOLUME: 300 ML OF SOLUTION PER TRAY
FIRST DAY FOR FERTILIZER: EIGHTH DAY AFTER SEEDING
FERTILIZER FREQUENCY: ONCE PER DAY
WATERING: AS REQUIRED IN THE AFTERNOON
FURNACE: 13 C
LOUVRES: 18 C
FANS: 21 C
TRAYS REQUIRED: 27 - ONE TRAY PER TREATMENT

FIELD PROGRAM

TRANSPLANTING DATE: JUNE 5
LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: H & B RANGE # 4
SOIL TYPE: BURFORD GRAVELLY LOAM
PLOT SIZE: ONE PLOT (1.5 M) * 7.0 M
EXPERIMENT SIZE: 40.5 M
PLANT POPULATION: 8,712 PLANTS PER ACRE
PLANT CONFIGURATION: SINGLE ROWS
STARTER FERTILIZER: AS LISTED
RATE OF STARTER SOLUTION: AS LISTED
FERTILIZER: 100-50-300 (N-P205-K20)
WEED CONTROL: TREFLAN (0.75 KG/HA) + SENCOR (0.5 KG/HA) PPI
INSECT CONTROL: AMBUSH (100 G/HA) - AS REQUIRED
DISEASE CONTROL: BRAVO (1.5 KG/HA) - TOM CAST
FRUIT RIPENING: ETHREL (1.2 KG/HA) - MATURE GREEN STAGE

27-Jun-90
**Title:** THE EFFECT OF STARTER FERTILIZER CONCENTRATION AND RATE ON THE ESTABLISHMENT AND YIELD OF PLUG TOMATO TRANSPLANTS (III)

**Experiment Number:** TOMATO # 90-10

**Treatment List**

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**Assessments:**

- **Lab:** STARTER FERTILIZER ANALYSIS - NUTRIENTS AND EC
- **Field:** PLANT PHYTOTOXICITY - 1 & 2 WEEKS AFTER TRANSPLANTING
  PLANT STAND COUNTS - 1, 2, 3, 4 & 8 WEEKS AFTER TRANSPLANTING
  YIELD - TOTAL - BREAKERS, MARKETABLE & CULLS

27-Jun-90
TITLE: THE EFFECT OF TRAY SIZE ON PLUG TOMATO GROWTH AND FIELD ESTABLISHMENT AND YIELD

EXPERIMENT NUMBER: TOMATO # 90-8

EXPERIMENT DETAILS

EXPERIMENTAL DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN
REPLICATIONS: 4
NUMBER OF TREATMENTS: 5

GREENHOUSE PROGRAM

CULTIVAR: OHIO 8245
TRAY SIZE: AS LISTED
SEEDING DATE: APRIL 9
SOILLESS MIXTURE: METRO MIX 220
SEED COVERING: MEDIUM HORTICULTURAL GRADE VERMICULITE
GERMINATION: GERMINATION CHAMBER - 3 DAYS AT 24 C
FERTILIZER REGIME: 150-48-217-64-40
5-11-26 + CALCIUM NITRATE & MAGNESIUM NITRATE
FERTILIZER VOLUME: 330 ML OF SOLUTION PER TRAY
FIRST DAY FOR FERTILIZER: EIGHTH DAY AFTER SEEDING
FERTILIZER FREQUENCY: ONCE PER DAY
WATERING: AS REQUIRED IN THE AFTERNOON
FURNACE: 13 C
LOUVRES: 18 C
FANS: 21 C
TRAYS REQUIRED: 20 - ONE TRAY PER PLOT

FIELD PROGRAM

TRANSPLANTING DATE: MAY 23
LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: H & B RANGE # 36
SOIL TYPE: BROOKSTON CLAY LOAM SANDY SPOT PHASE
PLOT SIZE: ONE PLOT (1.5 M) * 9.0 M
EXPERIMENT SIZE: 7.5 M
PLANT POPULATION: 8,712 PLANTS PER ACRE
PLANT CONFIGURATION: SINGLE ROWS
STARTER FERTILIZER: 6-24-6 AT 1 L PER 75 L OF WATER
RATE OF STARTER SOLUTION: 100 ML PER TRANSPLANT
FERTILIZER: 100-50-300 (N-P205-K20)
WEED CONTROL: TREFLAN (0.75 KG/HA) + SENCOR (0.5 KG/HA) PP
INSECT CONTROL: AMBUSH (100 G/HA) - AS REQUIRED
DISEASE CONTROL: BRAVO (1.5 KG/HA) - TOM CAST
FRUIT RIPENING: ETHREL (1.2 KG/HA) - MATURE GREEN STAGE

27-Jun-90
TITLE: THE EFFECT OF TRAY SIZE ON PLUG TOMATO GROWTH AND FIELD ESTABLISHMENT AND YIELD

EXPERIMENT NUMBER: TOMATO # 90-8

TREATMENT LIST

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ASSESSMENTS:

GREENHOUSE:
- WEEK 2 - PLANT HEIGHT
- WEEK 3 - PLANT HEIGHT
- WEEK 4 - PLANT HEIGHT
- WEEK 5 - PLANT HEIGHT
- WEEK 6 - VISUAL FOLIAR RATINGS
- WEEK 6 - PLANT HEIGHT
- WEEK 6 - STEM DIAMETER
- WEEK 6 - PLANT FRESH WEIGHT
- WEEK 6 - PLANT DRY WEIGHT

FIELD:
- PLANT STAND COUNTS - 1, 2, 3, 4 & 8 WEEKS AFTER TRANSPLANTING
- YIELD - TOTAL - BREAKERS, MARKETABLE & CULLS

27-Jun-90
TITLE: THE EFFECT OF DRYING OUT ON PLUG TOMATO GROWTH AND FIELD ESTABLISHMENT AND YIELD

EXPERIMENT NUMBER: TOMATO # 90-11

EXPERIMENT DETAILS

EXPERIMENTAL DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN
REPLICATIONS: 4
NUMBER OF TREATMENTS: 7

GREENHOUSE PROGRAM

CULTIVAR: OHIO 8245
TRAY SIZE: AS LISTED
SEEDING DATE: APRIL 23
SOILLESS MIXTURE: METRO MIX 220
SEED COVERING: MEDIUM HORTICULTURAL GRADE VERMICULITE
GERMINATION: GERMINATION CHAMBER - 3 DAYS AT 24 C
FERTILIZER REGIME: 150-48-217-64-40
5-11-26 + CALCIUM NITRATE & MAGNESIUM NITRATE
FERTILIZER VOLUME: 330 ML OF SOLUTION PER TRAY
FIRST DAY FOR FERTILIZER: EIGHTH DAY AFTER SEEDING
FERTILIZER FREQUENCY: ONCE PER DAY
WATERING: AS REQUIRED IN THE AFTERNOON
FURNACE: 13 C
LOUVRES: 18 C
FANS: 21 C
TRAYS REQUIRED: 28 - ONE TRAY PER PLOT

FIELD PROGRAM

TRANSPLANTING DATE: JUNE 7
LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY H & B RANGE # 7
ON FARM LOCATION: BURFORD GRAVELLY LOAM
SOIL TYPE: ONE PLOT (1.5 M) 6.0 M
PLOT SIZE: 10.5 M
EXPERIMENT SIZE: 8,712 PLANTS PER ACRE
PLANT POPULATION: SINGLE ROWS
PLANT CONFIGURATION: 6-24-6 AT 1 L PER 75 L OF WATER
STARTER FERTILIZER: 100 ML PER TRANSPLANT
RATE OF STARTER SOLUTION: 100-50-300 (N-P2O5-K2O)
FERTILIZER: TREFLAN (0.75 KG/HA) + SENCOR (0.5 KG/HA) PP
WEED CONTROL: AMBUSH (100 G/HA) - AS REQUIRED
INSECT CONTROL: BRAVO (1.5 KG/HA) - TOM CAST
DISEASE CONTROL: ETHREL (1.2 KG/HA) - MATURE GREEN STAGE
FRUIT RIPENING: 27-Jun-90
TITLE : THE EFFECT OF DRYING OUT ON PLUG TOMATO GROWTH AND FIELD ESTABLISHMENT AND YIELD

EXPERIMENT NUMBER : TOMATO # 90-11

TREATMENT LIST

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ASSESSMENTS :

FIELD :

- PLANT STAND COUNTS - 1, 2, 3, 4 & 8 WEEKS AFTER TRANSPLANTING
- YIELD - TOTAL - BREAKERS, MARKETABLE & CULLS

27-Jun-90
TITLE: THE EFFECT OF PLANTING DATE ON THE YIELD AND QUALITY OF STANDARD SWEET CORN

EXPERIMENT NUMBER: SWEET CORN # 90-1

EXPERIMENT DETAILS

EXPERIMENTAL DESIGN: SPLIT PLOT
MAIN PLOTS: PLANTING DATE
SUB-PILOTS: CULTIVARS

FIELD PROGRAM

LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: H & B RANGE # 12
SOIL TYPE: BROOKSTON CLAY LOAM
PLOT SIZE: 4 ROWS (75 CM) x 8.0 M
EXPERIMENT SIZE: 51.0 M
CULTIVAR: COMMANDER, JUBILEE, MORE AND RIVAL
SEEDING DATE: AS LISTED
SEEDING RATE: 75,000 PLANTS/HA (30,000/acre)
TOTAL SEEDS REQUIRED: 3264 PER CULTIVAR
FINAL PLANT STAND: 50,000 PLANTS/HA (20,000/acre) THIN PLANTS TO 50,000 PLANTS/HA WHEN THE CORN IS IN THE SIX LEAF STAGE

WEED CONTROL: SUTAN+ (4.0 KG/HA) + ATRAZINE (1.0 KG/HA) + BLADEX (2.0 KG/HA) APPLIED PREPLANT INCORPORATED
INSECT CONTROL: INSECT CONTROL - POUNCE (375 MLS/HA)
NITROGEN FERTILIZER: UREA (250 KG/HA) BROADCAST INCORPORATED BEFORE EACH PLANTING
STARTER FERTILIZER: 6-24-24 (100 KG/HA) BROADCAST INCORPORATED BEFORE EACH PLANTING

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27-Jun-90
TITLE : THE EFFECT OF PLANTING DATE ON THE YIELD AND QUALITY OF STANDARD SWEET CORN

EXPERIMENT NUMBER : SWEET CORN # 90-1

ASSESSMENTS :

---

PLANT DEVELOPMENT
---

PLANT STAND COUNTS (%) - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
PLANT HEIGHT (CM) - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
LEAF COUNTS - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING

DISEASES
---

COMMON AND HEAD SMUT
RUST

MATURITY
---

DAYS TO 50% SILKING
DAYS TO 80% SILKING
CORN HEAT UNITS - DAILY METEOROLOGICAL DATA

HARVEST
---

TO BE COMPLETED 20 DAYS AFTER 50% SILKING

PLANT HEIGHT - MEAN OF 10 PLANTS
COB HEIGHT - MEAN OF 10 PLANTS
TILLERS PER PLANT - MEAN OF 10 PLANTS
LODGING - PERCENT
TOTAL COB WEIGHT - WHOLE PLOT
MARKETABLE COB WEIGHT - WHOLE PLOT
PERCENT MARKETABLE COB WEIGHT
TIP COVER (1-5) - MEAN OF 5 COBS
WEIGHT OF 5 MARKETABLE COBS - HUSKS ON
WEIGHT OF 5 MARKETABLE COBS - HUSKS OFF
COB LENGTH (CM) - HUSK OFF
COB WIDTH (CM) - HUSK OFF
FRESH KERNEL WEIGHT (KG/HA) - CORN CUTTER
DRY KERNEL WEIGHT (KG/HA)
PERCENT KERNEL DRY WEIGHT - OVEN DRIED

27-Jun-90
TITLE: THE EFFECT OF PLANTING DATE ON THE YIELD AND QUALITY OF SUPERSWEET SWEET CORN

EXPERIMENT NUMBER: SWEET CORN # 90-2

EXPERIMENT DETAILS

EXPERIMENTAL DESIGN: SPLIT PLOT
REPLICATIONS: 4
MAIN PLOTS: PLANTING DATE
NUMBER OF TREATMENTS: 8
SUB-PLOTS: CULTIVARS

FIELD PROGRAM

LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: H & B RANGE # 33
SOIL TYPE: BROOKSTON CLAY LOAM
PLOT SIZE: 4 ROWS (75 CM) * 8.0 M
EXPERIMENT SIZE: 27.0 M
CULTIVAR: CROOKHAM 710 AND SUPERSWEET JUBILEE
SEEDING DATE: AS LISTED
SEEDING RATE: 75,000 PLANTS/HA (30,000/acre)
TOTAL SEEDS REQUIRED: 3264 PER CULTIVAR
FINAL PLANT STAND: 50,000 PLANTS/HA (20,000/acre)

WEED CONTROL: SUTAN+ (4.0 KG/HA) + ATRAZINE (1.0 KG/HA) + BLADEX (2.0 KG/HA) APPLIED PREPLANT INCORPORATED
INSECT CONTROL: INSECT CONTROL - POUNCE (375 MLS/HA)
NITROGEN FERTILIZER: UREA (250 KG/HA) BROADCAST INCORPORATED BEFORE EACH PLANTING
STARTER FERTILIZER: 6-24-24 (100 KG/HA) BROADCAST INCORPORATED BEFORE EACH PLANTING

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27-Jun-90
TITLE: THE EFFECT OF PLANTING DATE ON THE YIELD AND QUALITY OF SUPERSWEET SWEET CORN

EXPERIMENT NUMBER: SWEET CORN # 90-2

ASSESSMENTS:

PLANT DEVELOPMENT

- PLANT STAND COUNTS (%) - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
- PLANT HEIGHT (CM) - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
- LEAF COUNTS - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING

DISEASES

- COMMON AND HEAD SMUT
- RUST

MATURITY

- DAYS TO 50% SILKING
- DAYS TO 80% SILKING
- CORN HEAT UNITS - DAILY METEOROLOGICAL DATA

HARVEST

- TO BE COMPLETED 20 DAYS AFTER 50% SILKING

- PLANT HEIGHT - MEAN OF 10 PLANTS
- COB HEIGHT - MEAN OF 10 PLANTS
- TILLERS PER PLANT - MEAN OF 10 PLANTS
- LODGING - PERCENT
- TOTAL COB WEIGHT - WHOLE PLOT
- MARKETABLE COB WEIGHT - WHOLE PLOT
- PERCENT MARKETABLE COB WEIGHT
- TIP COVER (1-5) - MEAN OF 5 COBS
- WEIGHT OF 5 MARKETABLE COBS - HUSKS ON
- WEIGHT OF 5 MARKETABLE COBS - HUSKS OFF
- COB LENGTH (CM) - HUSK OFF
- COB WIDTH (CM) - HUSK OFF
- FRESH KERNEL WEIGHT (KG/HA) - CORN CUTTER
- DRY KERNEL WEIGHT (KG/HA)
- PERCENT KERNEL DRY WEIGHT - OVEN DRIED

27-Jun-90
TITLE: THE EFFECT OF PLANT POPULATION ON THE YIELD AND QUALITY OF STANDARD CORN

EXPERIMENT NUMBER: SWEET CORN # 90-3

EXPERIMENT DETAILS
-----------------
EXPERIMENTAL DESIGN: SPLIT PLOT
REPLICATIONS: 4
MAIN PLOTS: CULTIVARS
NUMBER OF TREATMENTS: 20
SUB-PLOTS: PLANT POPULATION

FIELD PROGRAM
------------
LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: H & B RANGE # 11
SOIL TYPE: BROOKSTON CLAY LOAM
PLOT SIZE: 4 ROWS (75 CM) 8.0 M
EXPERIMENT SIZE: 63.0 M
CULTIVAR: COMMANDER AND JUBILEE
SEEDING DATE: AS LISTED
SEEDING RATE: 75,000 PLANTS/HA (30,000/acre)
TOTAL SEEDS REQUIRED: 9536 PER CULTIVAR
FINAL PLANT STAND: 50,000 PLANTS/HA (20,000/acre)
THIN PLANTS TO 50,000 PLANTS/HA WHEN THE CORN IS IN THE SIX LEAF STAGE
WEED CONTROL: SUTAN+ (4.0 KG/HA) + ATRAZINE (1.0 KG/HA) + BLADEX (2.0 KG/HA) APPLIED PREPLANT INCORPORATED
INSECT CONTROL: INSECT CONTROL - POUNCE (375 MLS/HA)
NITROGEN FERTILIZER: UREA (250 KG/HA) BROADCAST INCORPORATED BEFORE EACH PLANTING
STARTER FERTILIZER: 6-24-24 (100 KG/HA) BROADCAST INCORPORATED BEFORE EACH PLANTING

ASSESSMENTS:
-------------
PLANT DEVELOPMENT
-----------------
PLANT STAND COUNTS (%) - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
PLANT HEIGHT (CM) - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
LEAF COUNTS - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING

DISEASES
--------
COMMON AND HEAD SMUT
RUST

MATURITY
--------
DAYS TO 50% SILKING
DAYS TO 80% SILKING
CORN HEAT UNITS - DAILY METEOROLOGICAL DATA

27-Jun-90
TITLE: THE EFFECT OF PLANT POPULATION ON THE YIELD AND QUALITY OF STANDARD CORN

EXPERIMENT NUMBER: SWEET CORN # 90-3

TREATMENT LIST

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ASSESSMENTS:

HARVEST

TO BE COMPLETED 20 DAYS AFTER 50% SILKING

- PLANT HEIGHT - MEAN OF 10 PLANTS
- COB HEIGHT - MEAN OF 10 PLANTS
- TILLERS PER PLANT - MEAN OF 10 PLANTS
- LODGING - PERCENT
- TOTAL COB WEIGHT - WHOLE PLOT
- MARKETABLE COB WEIGHT - WHOLE PLOT
- PERCENT MARKETABLE COB WEIGHT
- TIP COVER (1-5) - MEAN OF 5 COBS
- WEIGHT OF 5 MARKETABLE COBS - HUSKS ON
- WEIGHT OF 5 MARKETABLE COBS - HUSKS OFF
- COB LENGTH (CM) - HUSK OFF
- COB WIDTH (CM) - HUSK OFF
- FRESH KERNEL WEIGHT (KG/HA) - CORN CUTTER
- DRY KERNEL WEIGHT (KG/HA)
- PERCENT KERNEL DRY WEIGHT - OVEN DRIED

27-Jun-90
TITLE: THE EFFECT OF PLANT POPULATION ON THE YIELD AND QUALITY OF SUPERSWEET SWEET CORN

EXPERIMENT NUMBER: SWEET CORN # 90-4

EXPERIMENT DETAILS

EXPERIMENTAL DESIGN: SPLIT PLOT
MAIN PLOTS:
SUB-PILOTS: PLANT POPULATION

LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: H & B RANGE # 33
SOIL TYPE: BROOKSTON CLAY LOAM
PLOT SIZE: 4 ROWS (75 CM) * 8.0 M
EXPERIMENT SIZE: 63.0 M
CULTIVAR: CROOKHAM 710 AND SUPERSWEET JUBLIEE
SEEDING DATE: AS LISTED
SEEDING RATE: 75,000 PLANTS/HA (30,000/ACRE)
TOTAL SEEDS REQUIRED: 9536 PER CULTIVAR
FINAL PLANT STAND: 50,000 PLANTS/HA (20,000/ACRE)
THIN PLANTS TO 50,000 PLANTS/HA WHEN THE CORN IS IN THE SIX LEAF STAGE

WEED CONTROL: SUTAN+ (4.0 KG/HA) + ATRAZINE (1.0 KG/HA) + BLADEX (2.0 KG/HA) APPLIED PREPLANT INCORPORATED
INSECT CONTROL: INSECT CONTROL - POUNCE (375 MLS/HA)
NITROGEN FERTILIZER: UREA (250 KG/HA) BROADCAST INCORPORATED BEFORE EACH PLANTING
STARTER FERTILIZER: 6-24-24 (100 KG/HA) BROADCAST INCORPORATED BEFORE EACH PLANTING

ASSESSMENTS:

PLANT DEVELOPMENT

PLANT STAND COUNTS (%): 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
PLANT HEIGHT (CM): 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
LEAF COUNTS: 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING

DISEASES

COMMON AND HEAD SMUT
RUST

MATURITY

DAYS TO 50% SILKING
DAYS TO 80% SILKING
CORN HEAT UNITS - DAILY METEOROLOGICAL DATA

27-Jun-90
TITLE: THE EFFECT OF PLANT POPULATION ON THE YIELD AND QUALITY OF SUPERSWEET SWEET CORN

EXPERIMENT NUMBER: SWEET CORN # 90-4

TREATMENT LIST

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ASSESSMENTS:

- HARVEST

TO BE COMPLETED 20 DAYS AFTER 50% SILKING

- PLANT HEIGHT - MEAN OF 10 PLANTS
- COB HEIGHT - MEAN OF 10 PLANTS
- TILLERS PER PLANT - MEAN OF 10 PLANTS
- LODGING - PERCENT
- TOTAL COB WEIGHT - WHOLE PLOT
- MARKETABLE COB WEIGHT - WHOLE PLOT
- PERCENT MARKETABLE COB WEIGHT
- TIP COVER (1-5) - MEAN OF 5 COBS
- WEIGHT OF 5 MARKETABLE COBS - HUSKS ON
- WEIGHT OF 5 MARKETABLE COBS - HUSKS OFF
- COB LENGTH (CM) - HUSK OFF
- COB WIDTH (CM) - HUSK OFF
- FRESH KERNEL WEIGHT (KG/HA) - CORN CUTTER
- DRY KERNEL WEIGHT (KG/HA)
- PERCENT KERNEL DRY WEIGHT - OVEN DRIED

27-Jun-90
TITLE: THE EFFECT OF HARVEST DATE ON THE YIELD AND QUALITY OF
STANDARD SWEET CORN

EXPERIMENT NUMBER: SWEET CORN # 90-5

EXPERIMENT DETAILS

EXPERIMENTAL DESIGN: SPLIT PLOT
MAIN PLOTS: CULTIVARS
SUB-PLOTS: HARVEST DATE
REPLICATIONS: 4
NUMBER OF TREATMENTS: 24

FIELD PROGRAM

LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: H & B RANGE # 12
SOIL TYPE: BROOKSTON CLAY LOAM
PLOT SIZE: 1 ROWS (75 CM) * 8.0 M
EXPERIMENT SIZE: 24.0 M
CULTIVAR: COMMANDER, JUBILEE, MORE AND RIVAL
SEEDING DATE: MAY 24
SEEDING RATE: AS LISTED
TOTAL SEEDS REQUIRED: 1632 PER CULTIVAR
FINAL PLANT STAND: AS LISTED
THIN PLANTS AT THE SIX LEAF STAGE
WEED CONTROL
SUTAN+ (4.0 KG/HA) + ATRAZINE (1.0 KG/HA) +
BLADEX (2.0 KG/HA) APPLIED PREPLANT INCORPORATED
INSECT CONTROL: INSECT CONTROL - POUNCE (375 MLS/HA)
NITROGEN FERTILIZER: UREA (250 KG/HA) BROADCAST INCORPORATED BEFORE
EACH PLANTING
STARTER FERTILIZER: 6-24-24 (100 KG/HA) BROADCAST INCORPORATED
BEFORE EACH PLANTING
# The Effect of Harvest Date on the Yield and Quality of Standard Sweet Corn

**Experiment Number:** SWEET CORN # 90-5

**Treatment List**

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TITLE: THE EFFECT OF HARVEST DATE ON THE YIELD AND QUALITY OF STANDARD SWEET CORN

EXPERIMENT NUMBER: SWEET CORN # 90-5

ASSESSMENTS:

PLANT DEVELOPMENT

- PLANT STAND COUNTS (%) - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
- PLANT HEIGHT (CM) - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
- LEAF COUNTS - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING

DISEASES

- COMMON AND HEAD SMUT
- RUST

MATURITY

- DAYS TO 50% SILKING
- DAYS TO 80% SILKING
- CORN HEAT UNITS - DAILY METEOROLOGICAL DATA

HARVEST

- TO BE COMPLETED 20 Days AFTER 50% SILKING
- PLANT HEIGHT - MEAN OF 10 PLANTS
- COB HEIGHT - MEAN OF 10 PLANTS
- TILLERS PER PLANT - MEAN OF 10 PLANTS
- LODGING - PERCENT
- TOTAL COB WEIGHT - WHOLE PLOT
- MARKETABLE COB WEIGHT - WHOLE PLOT
- PERCENT MARKETABLE COB WEIGHT
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- WEIGHT OF 5 MARKETABLE COBS - HUSKS OFF
- COB LENGTH (CM) - HUSK OFF
- COB WIDTH (CM) - HUSK OFF
- FRESH KERNEL WEIGHT (KG/HA) - CORN CUTTER
- DRY KERNEL WEIGHT (KG/HA)
- PERCENT KERNEL DRY WEIGHT - OVEN DRIED
TITLE: THE EFFECT OF HARVEST DATE ON THE YIELD AND QUALITY OF SUPERSWEET SWEET CORN

EXPERIMENT NUMBER: SWEET CORN # 90-6

EXPERIMENT DETAILS
---------------------
EXPERIMENTAL DESIGN: SPLIT PLOT
MAIN PLOTS: CULTIVARS
SUB-PLOTS: HARVEST DATE
REPLICATIONS: 4
NUMBER OF TREATMENTS: 12

FIELD PROGRAM
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LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: H & B RANGE # 33
SOIL TYPE: BROOKSTON CLAY-LOAM
PLOT SIZE: 1 ROW (75 CM) * 8.0 M
EXPERIMENT SIZE: 12.0 M
CULTIVAR: CROOKHAM 710 AND SUPERSWEET JUBILEE
SEEDING DATE: MAY 24
SEEDING RATE: AS LISTED
TOTAL SEEDS REQUIRED: 1632 PER CULTIVAR
FINAL PLANT STAND: THIN PLANTS AT THE SIX LEAF STAGE
WEED CONTROL: SUTAN+ (4.0 KG/HA) + ATRAZINE (1.0 KG/HA) + BLADEX (2.0 KG/HA) APPLIED PREPLANT INCORPORATED
INSECT CONTROL: INSECT CONTROL - POUNCE (375 MLS/HA)
NITROGEN FERTILIZER: UREA (250 KG/HA) BROADCAST INCORPORATED BEFORE EACH PLANTING
STARTER FERTILIZER: 6-24-24 (100 KG/HA) BROADCAST INCORPORATED BEFORE EACH PLANTING

ASSESSMENTS:
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PLANT DEVELOPMENT
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PLANT STAND COUNTS (%) - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
PLANT HEIGHT (CM) - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
LEAF COUNTS - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING

DISEASES
-------
COMMON AND HEAD SMUT
RUST

MATURITY
--------
DAYS TO 50% SILKING
DAYS TO 80% SILKING
CORN HEAT UNITS - DAILY METEOROLOGICAL DATA

27-Jun-90
TITLE: THE EFFECT OF HARVEST DATE ON THE YIELD AND QUALITY OF SUPERSWEET SWEET CORN

EXPERIMENT NUMBER: SWEET CORN # 90-6

TREATMENT LIST

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<th>TREATMENT NUMBER</th>
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ASSESSMENTS:

HARVEST

TO BE COMPLETED 20 DAYS AFTER 50% SILKING

- PLANT HEIGHT - MEAN OF 10 PLANTS
- COB HEIGHT - MEAN OF 10 PLANTS
- TILLERS PER PLANT - MEAN OF 10 PLANTS
- LODGING - PERCENT
- TOTAL COB WEIGHT - WHOLE PLOT
- MARKETABLE COB WEIGHT - WHOLE PLOT
- PERCENT MARKETABLE COB WEIGHT
- TIP COVER (1-5) - MEAN OF 5 COBS
- WEIGHT OF 5 MARKETABLE COBS - HUSKS ON
- WEIGHT OF 5 MARKETABLE COBS - HUSKS OFF
- COB LENGTH (CM) - HUSK OFF
- COB WIDTH (CM) - HUSK OFF
- FRESH KERNEL WEIGHT (KG/HA) - CORN CUTTER
- DRY KERNEL WEIGHT (KG/HA)
- PERCENT KERNEL DRY WEIGHT - OVEN DRIED

27-Jun-90
TITLE: THE EFFECT OF STARTER FERTILIZER RATE AND PLACEMENT ON THE
ESTABLISHMENT AND YIELD OF CROOKHAM 710 SUPERSWEET SWEET CORN

EXPERIMENT NUMBER: SWEET CORN # 90-7

EXPERIMENT DETAILS

EXPERIMENTAL DESIGN: SPLIT PLOT
MAIN PLOTS: METHOD OF APPLICATION
SUB-PLOTS: FERTILIZER RATE
REPLICATIONS: 4
NUMBER OF TREATMENTS: 15

FIELD PROGRAM

LOCATION: RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
ON FARM LOCATION: H & B RANGE # 34
SOIL TYPE: BROOKSTON CLAY LOAM
PLOT SIZE: 4 ROWS (75 CM) * 8.0 M
EXPERIMENT SIZE: 48.0 M
CULTIVAR: CROOKHAM 710
SEEDING DATE: MAY 30
SEEDING RATE: 75,000 PLANTS/HA (30,000/ACRE)
TOTAL SEEDS REQUIRED: 12240 PER CULTIVAR
FINAL PLANT STAND: 50,000 PLANTS/HA (20,000/ACRE)
WEED CONTROL: SUTAN+ (4.0 KG/HA) + ATRAZINE (1.0 KG/HA) +
BLADEX (2.0 KG/HA) APPLIED PREPLANT INCORPORATED
INSECT CONTROL: INSECT CONTROL - POUNCE (375 MLS/HA)
NITROGEN FERTILIZER: UREA (250 KG/HA) BROADCAST INCORPORATED BEFORE
EACH PLANTING
STARTER FERTILIZER: 6-24-24 (100 KG/HA) BROADCAST INCORPORATED
BEFORE EACH PLANTING

ASSESSMENTS:

PLANT DEVELOPMENT

- PLANT STAND COUNTS (%) - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
- PLANT HEIGHT (CM) - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING
- LEAF COUNTS - 1, 2, 3, 4 & 5 WEEKS AFTER SEEDING

DISEASES

- COMMON AND HEAD SMUT
- RUST

MATURITY

- DAYS TO 50% SILKING
- DAYS TO 80% SILKING
- CORN HEAT UNITS - DAILY METEOROLOGICAL DATA

27-Jun-90
**Title:** The Effect of Starter Fertilizer Rate and Placement on the Establishment and Yield of Crookham 710 Supersweet Sweet Corn

**Experiment Number:** Sweet Corn # 90-7

**Treatment List**

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**Assessments:**

**Harvest**

To be completed 20 days after 50% silkling

- Plant Height - Mean of 10 plants
- Cob Height - Mean of 10 plants
- Tillers per plant - Mean of 10 plants
- Lodging - Percent
- Total Cob Weight - Whole plot
- Marketable Cob Weight - Whole plot
- Percent Marketable Cob Weight
- Tip Cover (1-5) - Mean of 5 cobs
- Weight of 5 Marketable cobs - Husks on
- Weight of 5 Marketable cobs - Husks off
- Cob Length (cm) - Husk off
- Cob Width (cm) - Husk off
- Fresh Kernel Weight (kg/ha) - Corn Cutter
- Dry Kernel Weight (kg/ha)
- Percent Kernel Dry Weight - Oven Dried

27-Jun-90