PA-ABW-901

وزارة الزراعة واستصلاح الأراضي

المجمع الزراعي الصناعي بمريوط وحدة البحث والتطوير

INTEGRATED AGRICULTURAL DEVELOPMENT PROJECT
MARYUT AGROINDUSTRIAL COMPLEX IN THE WESTERN DESERT OF EGYPT

10-Jul-91

PREFACE

THE PRESENT REPORT SUBMITTED TO THE TECHNICAL COMMITEE MEETING IN JULY 1991, IS A FRUIT OF THE EFFORTS OF ALL MARYUT PROJECT TEAM OF THE THREE NATIONS, EGYPT, ISRAEL AND USA.

THE ACHIEVED SUCCESS, STEMS FROM SENCEER COOPERATION AND STRONG BELIEF IN THE NECISTY OF THE PROGRESS AND MATURATION OF PEACE AND DEVELOPMENT TO WHICH THE PEOPLE OF THREE NATIONS ARE COMMITTED.

THE CONTINUATION IN UNDER STANDING AND STRONG SUPPORT OF HE. DR. HALIY DEB, PRIME MINISTER AND MINISTER OF AGRIC AND SOIL RECLAMATION, AND DR. BEITAGY FIRST UNDER SECRITARY FOR SOIL RECLAMATION ARE HIGLY APPRECIATED, THE ROLE OF USAID, SDSUE, TECHNICAL PANNEL OF EGYPT, ISRAEL AND USA AND ADMINISTRATIONS IS OF HUGH RECOGNATION AND ADMIRATION.

LET SUCCEES, PROGRESS AND DEVELOPMENT STEM AND GROW FROM WITHIN THE SWET AND SMILE OF YOUTH, MUDDY HAND OF ALL WORKERS, STIMULATE HOPES FOR PEACE AND BETTER LIFE FOR ALL PEOPLE THROUGH HARD WORK, DEDICATION AND LOYALITY.
LET US SAY IT TOGETHER FORWARD EVER, BACKWARD NEVER.

Awad

Dr. A. Hussein

PROJECT DIRECTOR

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Margot Staff list ??

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INTRODUCTION

IN ACCORDENCE WITH THE RECOMMENDATION OF THE TECHNICAL COMMITEE MEETING IN SEPTEMBER 1990 THE MARYUT PROJECT TEAM CARRIED OUT THE FOLLOWING ACTIVITIES :

VEGETABLES

A - NURSERY ACTIVITIES.

B - INTRIDUCTION OF DIFFERENT VEGETABLE CROPS AND VARIETIES.

C - PLASTIC WALK THROUGH TUNNELS (SHORT, LONG AND MEDIUM).

D - LOW TUNNELS AND OPEN FIELD.

E - TECHNOLOGIES : USEING MULCH TO STUDY THE EFFECT OF MULCH ON YIELD, EFFECT OF HOUSES LENGTH ON PRODUCTION, ORGANIC MATTER (CHICKEN AND CATTLE MANURE).

AREAS - DIMENTION OF HOUSES : LONG = 59m. X 9m.
SHORT = 29m. X 9m.
MEDIUM = 45m. X 9m.
OPEN FIELD = 5 FEDDAN.

POST HARVEST ACTIVITIES FOR EVALUATION ON FRUIT QUAKLITY.

ORNAMENTALS

Landscape ornamentals
A list of plants adopted to the desert condition and soils has has been submited to the project part of this plants were acquired in Israel.

Floriculture production

Roses, one short house were used for the production of roses and the flowers were sold in Alexandria's market.

Flowering branches, two varieties of ucalyptus for flowering branches was planted.

Decrative branches, six varieties of melaleuca were planted.

Potted flowering and foliage plants

Two plastic houses were used for mother plants in order to produce pot plants.

Open field production

Small section of 0.5 feddan were planted with two three varieties.

Turf

Three varieties of lawn were planted for observation and studies.

FRUIT TREES

General plan

Compliting the major crop planting.

Minor crops and new species

A collection of minor crops was planted in a collection plot a long with other crops.

nursery

Production of seedlings is taking place for the second year.

INTRODUCTION

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POST HARVEST ACTIVITIES FOR EVALUATION ON FRUIT QUAKLITY.

ORNAMENTALS

A STUDY WAS CARRIED OUT BY Prf. WARREN JONES OF ARIZONA UNIVERSITY USA, ON THE LANDSCAPE REQUIRMENTS TO PROVIDE DIFFERNT ALTERNATIVES OF DESERT LANDSCAPE.
SUGGESTED LIST OF SCHEDUALS PLANTS WAS PROPOSED, GENERAL LANDSCAPE DESIGNE WAS MADE TO BE IMPLAMENTED IN THE SITE.
PLANS WERE BROUGHT TO THE SITE, SOME PLANTED AND THE REST AWAITS FOR NEAR FUTURE.

FLORICULTURE PRODUCTION

ROSES, ONE SHORT HOUSE WAS USED FOR THE PRODUCTION OF ROSES AND THE FLOWERS WERE SOLD IN THE LOCAL MARKET.t.

FLOWERING BRANCHES, TWO VARIETIES OF EUCALYPTUS WERE PLANTED AND SOME STILL UNDR SHADE.

DECORATIVE BRANCHES - SIX VARIETIES OF MELALEUCA WERE PLANTED

POT PLANTS - MATHER PLANTS WERE PLANTED FROM SIX VARIETIES IN ORDER TO PRODUCE MATERIAL FOR POTS.

FRUIT TREES

GENERAL PLAN

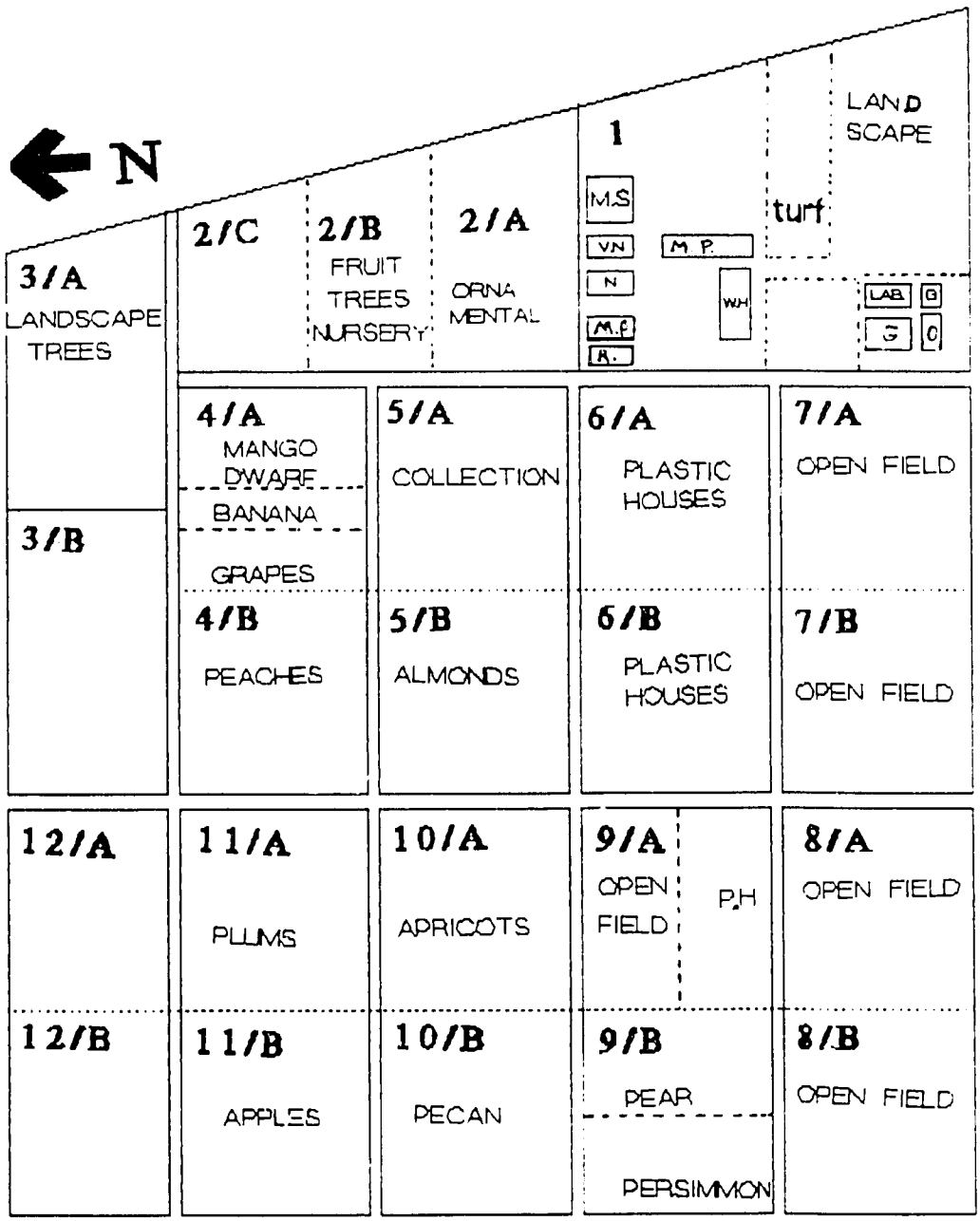
COMPLITING THE MAJOR CROP PLANTING.

MINOR CROPS AND NEW SPECIES WERE PLANTED IN A COLLECTION SECTION.

NURSERY

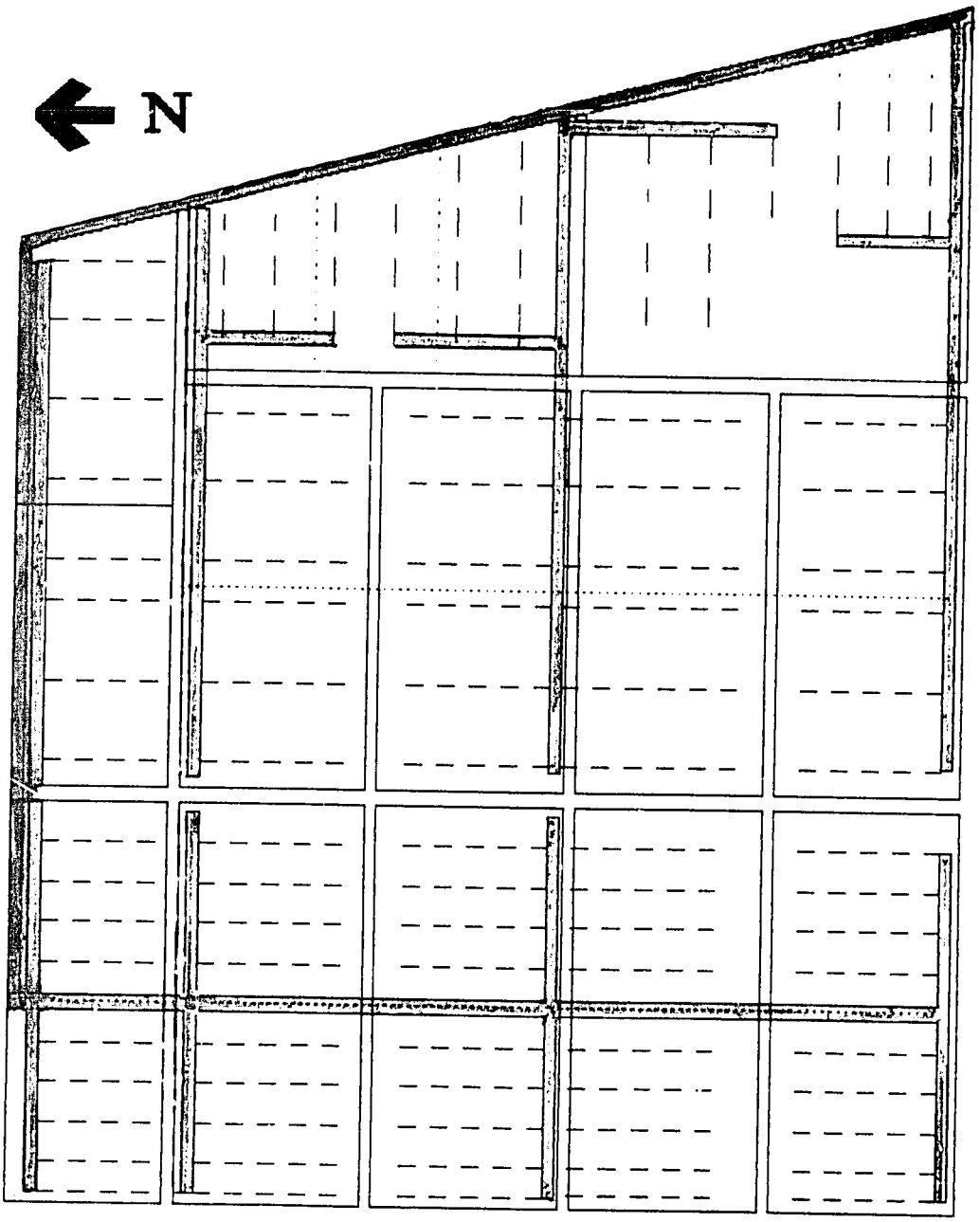
PRODUCTION OF SEEDLINGS IS TAKING PLACE FOR THE SECOND SUCCESIVE YEAR

MARYUT PROJECT
GENERAL MAP 1991



MARYUT PROJECT

DRAINAGE SYSTEM JULY 1991



- -	Drainage	8700m.
▬	Sub collectors	2500m.
▬	Main collectors	1000m.

VEGETALE CROPS

TOMATO

P.HOUSE	CULTIVAR	PLANTING DATE	FIRST HARVEST	LAST HARVEST	NO. OF HARVESTS
L-1	CARMELO	14/9/90	26/11/90	24/4/91	28
S-1	CARMELO	14/9/90	26/11/90	24/4/91	28
L-2	VAR.TST	17/9/90	4/12/90	30/5/91	26
S-2	VAR.TST	17/9/90	4/12/90	29/4/91	28
L-3	FA-144/U-65	16/9/90	28/11/90	6/6/91	37
S-3	BR-160/138B	20/9/90	4/12/90	6/6/91	38
L-4	BR-160/FA111	16/9/90	4/12/90	16/3/91	24
S-4	BR-160/FA111	21/9/90	4/12/90	6/6/91	38
L-16	CHERRY TST.	21/9/90	2/12/90	25/6/91	11
S-16	VAR.TST	4/10/90	25/2/91	21/6/91	25
L-9	BR-135	5/2/91	4/5/91		
L-10	FA-146	5/2/91	4/5/91		
S-10	VAR.TST	6/2/91	4/5/91		
O.FIELD	VAR.TST	3/12/90	31/3/91	4/6/91	19
O.FIELD	VAR.TST	1/11/90	16/2/91	23/4/91	12
O.FIELD	OBSERVATION	24/1/91	14/5/91	9/6/91	8
O.FIELD	TY	14/9/90	22/11/90	6/2/91	33

PEPPER

P.HOUSE	CULTIVAR	PLANTING DATE	FIRST HARVEST	LAST HARVEST	NO. OF HARVESTS
L-8	MAJOR	26/9/90	21/11/90		13
S-8	VAR.TST	26/9/90	21/11/90		11
S-9	VAR.TST	26/9/90	21/11/90		13

EGGPLANTS

P.HOUSE	CULTIVAR	PLANTING DATE	FIRST HARVEST	LAST HARVEST	NO. OF HARVESTS
L-5	VAR.TST	12/9/90	8/11/90	12/6/91	14
S-5	VAR.TST	28/7/90	9/9/90	23/2/91	16
L-6	EDNA	13/9/90	8/11/90	9/3/91	11
S-6	EDNA	14/9/90	8/11/90	9/3/91	11
L-7	F.MARKET	13/9/90	5/11/90	26/1/91	6
S-7	OTHELLO	14/9/90	5/11/90	26/1/91	6
O.FIELD	VAR.TST	15/9/90	8/11/90	3/2/91	10

VEGETALE CROPS

CUCUMBER

P.HOUSE	CULTIVAR	PLANTING DATE	FIRST HARVEST	LAST HARVEST	NO. OF HARVESTS
L-9	VAR.TST	4/10/90	3/11/90	7/1/91	14
L-10	428/436	4/10/90	3/11/90	7/1/91	16
S-10	222	3/10/90	3/11/90	7/1/91	16
L-11	PICO/COR	9/9/90	13/11/90	29/12/90	23
L-12	PICO/COR	12/9/90	13/11/90	29/12/90	23
S-11	436	4/10/90	3/11/90	29/12/90	17
S-12	154	5/10/90	3/11/90	1/1/91	17
L-13	KATR205	11/10/90	3/11/90	1/1/91	16
S-13	VAR.TST	11/9/90	3/11/90	2/1/91	18
L-15	PICKLING	4/10/90	3/11/90	16/12/90	10
S-14	PICKLING	4/10/90	3/11/90	16/12/90	12
S-15	VAR.TST	10/10/90	10/11/90	7/1/91	18

CUCUMBER — SECOND LEG OF THE DOUBLE CROPPING SEASON

P.HOUSE	CULTIVAR	PLANTING DATE	FIRST HARVEST	LAST HARVEST	NO. OF HARVESTS
L-11	CORDITO	15/2/91	27/3/91	6/6/91	28
L-12	CORDITO	15/2/91	27/3/91	16/6/91	28
L-13	CORDITO	15/2/91	27/3/91	17/6/91	29
L-14	PICOBELO	11/2/91	19/3/91	5/6/91	27
S-11	RAWA	13/2/91	19/3/91	18/6/91	32
S-12	RAWA	13/2/91	19/3/91	6/6/91	29
S-14	PICOBELO	14/2/91	19/3/91	8/6/91	28
S-7	VAR.TST	14/2/91	21/3/91	9/6/91	25
L-7	VAR.TST	14/2/91	20/3/91	8/6/91	28
L-6	436	17/3/91	11/4/91	18/6/91	26
S-6	436	19/3/91	11/4/91	23/6/91	28

MELONS

P.HOUSE	CULTIVAR	PLANTING DATE	FIRST HARVEST	LAST HARVEST	NO. OF HARVESTS
M-2	VAR.TST	19/12/90	11/4/91	2/6/91	14
M-3	GALIA	19/12/90	13/11/90	29/12/90	23
M-4	GALIA	14/12/90	13/11/90	29/12/90	23
M-5	GALIA	12/2/91	11/5/91	11/6/91	10
M-6	GALIA	12/2/91	11/5/91	11/6/91	10
M-7	GALIA		11/5/91	11/6/91	10
M-8	GALIA		11/5/91	11/6/91	10
L-4	GALIA	18/4/91	11/6/91	29/6/91	5
S-13	GALIA	25/2/91	21/5/91	26/6/91	7
S-15	GALIA	25/2/91	21/5/91	26/6/91	7
O.FIELD	GALIA	25/3/91	18/6/91	29/6/91	5

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CUCUMBER WINTER/SPRING 1990/91

VARIETIES : PICOBELLO, CORDITTO, KAIA, 428, 436, 154, 222, RAHA AND CULTIVARS IN VARIETAL TEST.

PLANTIG DATES : MID SEPTEMBER, BEGINING OF OCCTOBER, FEBRUARY AND MARCH (see table no. 1)

METHODE AND APPLICATION :
SPREADING SIX m3 CATTLE MANURE, 50 Kg, SUPER PHOSPHATE 25 Kg, AMONIUM SULPHATE, USEING ROTOVATOR TO MIX THE MANURE WITH THE SOIL, THEN FUMIGATE WITH METHYL BROMIDE AT RATIO OF 50gr. PER 1 Sq.m, THEN LIGHING THE SOIL WITH 50 m3 WATER.

MANAGEMENT AND TECHNOLOGY : FALL
SINGLE Vs, DOUBLE ROW : TWO HOUSES WERE PLANTED, ONE (L-11) WITH 8 SINGLE ROWS, FOUR WITH EACH CULTIVAR PICOBELO AND CORDITO,
SECOND HOUSE PLANTED WITH DOUBLE ROWS ON BEDS WITH THE SAME CULTIVARS, THE HOUSES LENGTH 59m,X 9m.

DENSITY : OF EACH CULTIVAR 460 SEEDLINGS WAS PLANTED IN SINGLE ROWS PLASTIC HOUSE,
IN DOUBLE ROWS HOUSE 580 SEEDLINGS WAS PLANTED OF EACH CULTIVAR.

RESULTS :

	SINGLE ROW		DOUBLE ROW	
CULTIVAR	PICOBELO	CORDITO	PICOBELO	CORDITO
Kg/1 Sq.m	4.09	4.34	3.96	3.73

SPRING : FOUR MAIN EXPERIMENT WERE PERFORMED MULCH, IRRIGATION LONG Vs, SHORT HOUSES AND VARIETAL TEST.

MULCH - TWO HOUSES WERE PLANTED WITH THE CULTIVAR PICOBELO IN EACH HOUSE TWO BEDS WAS COVERED WITH BLACK AND TWO BEDS WITH CLEAR MULCH, ONE BED WAS LEFT UN COVERED FOR CONTROL.

RESULTS

MULCH	BLACK	CLEAR	CONTROL
L-14	6.74	7.36	6.43
S-14	8.29	8.43	7.43

IT SEEMS THAT CLEAR MULCH IS GIVEN BETTER RESULTS.

ALSO FOR THE LENGTH OF HOUSE IT SEEMS THAT THE SHORT HOUSE HAS GIVEN BETTER RESULTS.

IRRIGATION - DRIPPER DEPTH - THREE HOUSES HAS PLANTED WITH TWO DISCHARGE QUANTITIES OF WATER 2/LH AND 4/LH.
EACH HOUSE WITH DIFFERENT DEPTH OF THE DRIPPERS, SURFACE 15 Cm. AND 25 Cm. DEPTH. THE FERTIGATION REGIME WAS THE SAME.

RESULTS

	SURFACE		15 Cm.		25 Cm.	
DISCHARGE	2/LH	4/LH	2/LH	4/LH	2/LH	4/LH
kG/1Sq.m	6.48	7.18	6.52	7.08	5.78	7.72

FIRST IT SEEMS THAT 4/LH BETTER THAN 2/LH.
SECOND : THE HIGHEST YIELD GIVEN BY 4/LH IN A 25 Cm. DEPTH.

VARITAL TEST

TWO HOUSES WERE PLANTED WITH THE SAME CULTIVAS, LONG HOUSE AND SHORT HOUSE.
DENSITY : EIGHT SINGLE ROWS, EACH CULTIVAR WAS PLANTED IN FOUR REPLICATION.

RESULTS (Kg. per 1 Sq.m)

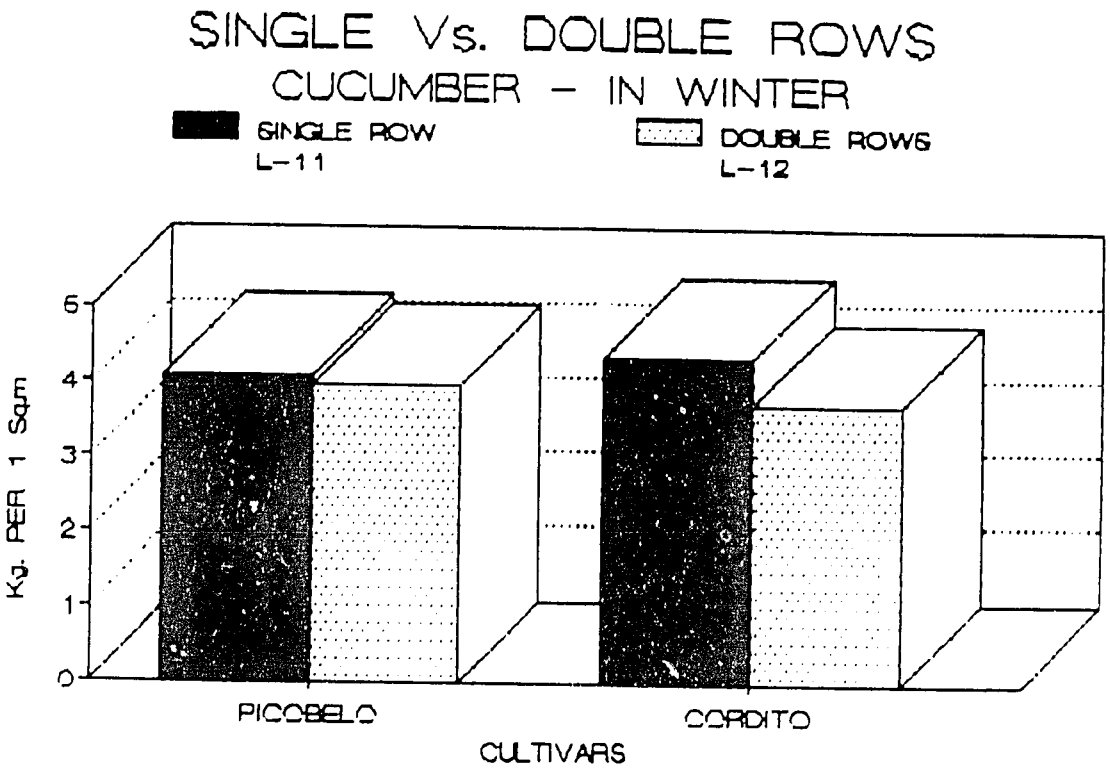
CULTIVAR	425A	424B	429C	437D	723	10
L-7	7.87	5.93	7.39	8.19	9.30	8.17
S-7	6.57	5.08	5.72	6.07	6.91	5.77

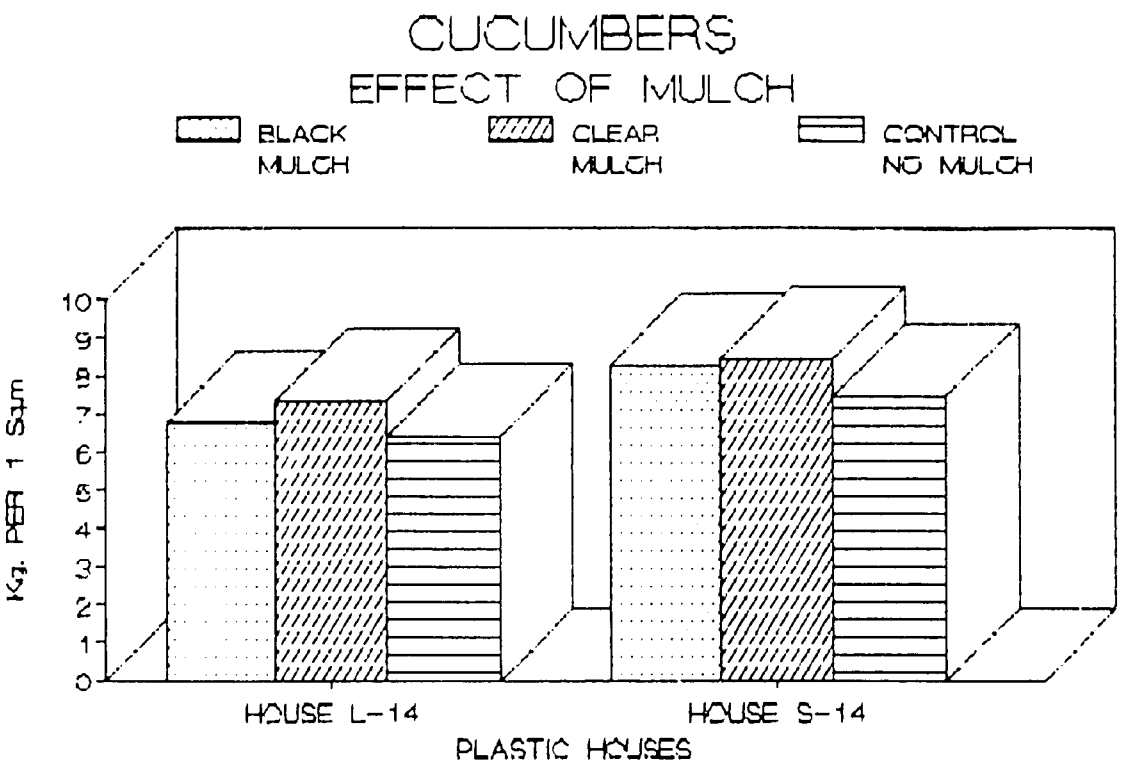
REMARK : HOUS S-7 WAS HARVESTED THREE HARVESTS LESS THAN L-7

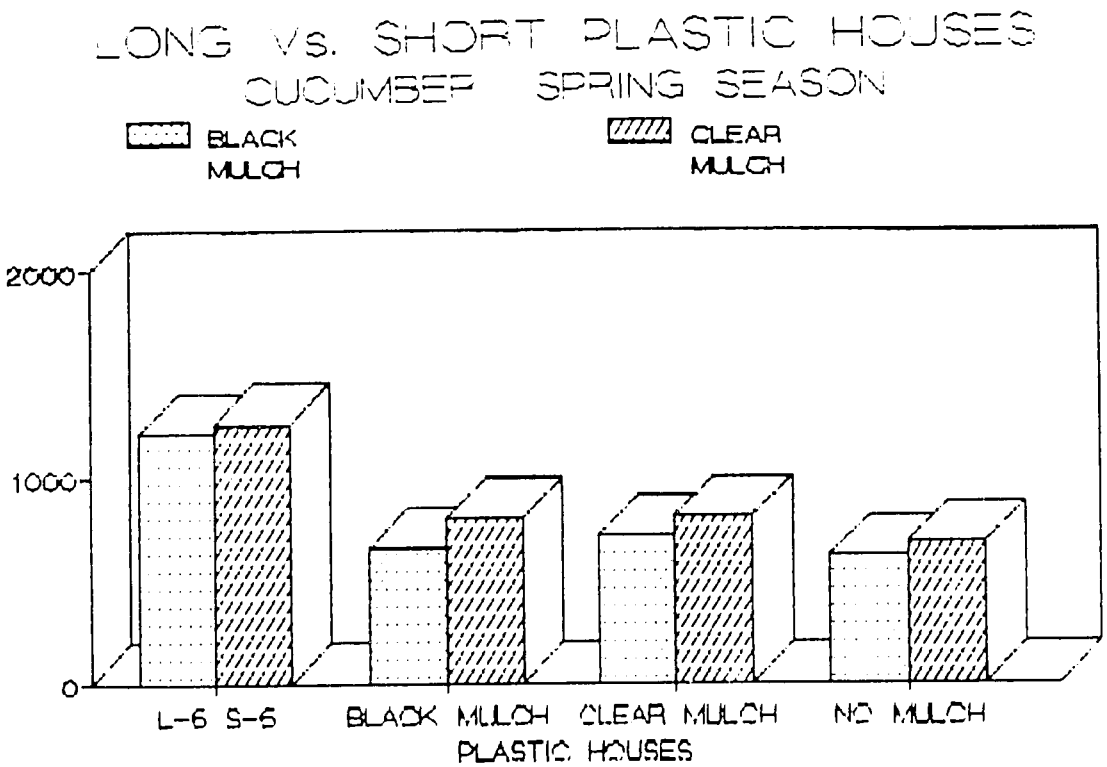
THE CULTIVARS THAT SHOWS PROMMISING RESULTS ARE 723, RAWA, 10 AND 437D. PICOBELO WAS PLANTED AS CONTROL CULTIVAR.

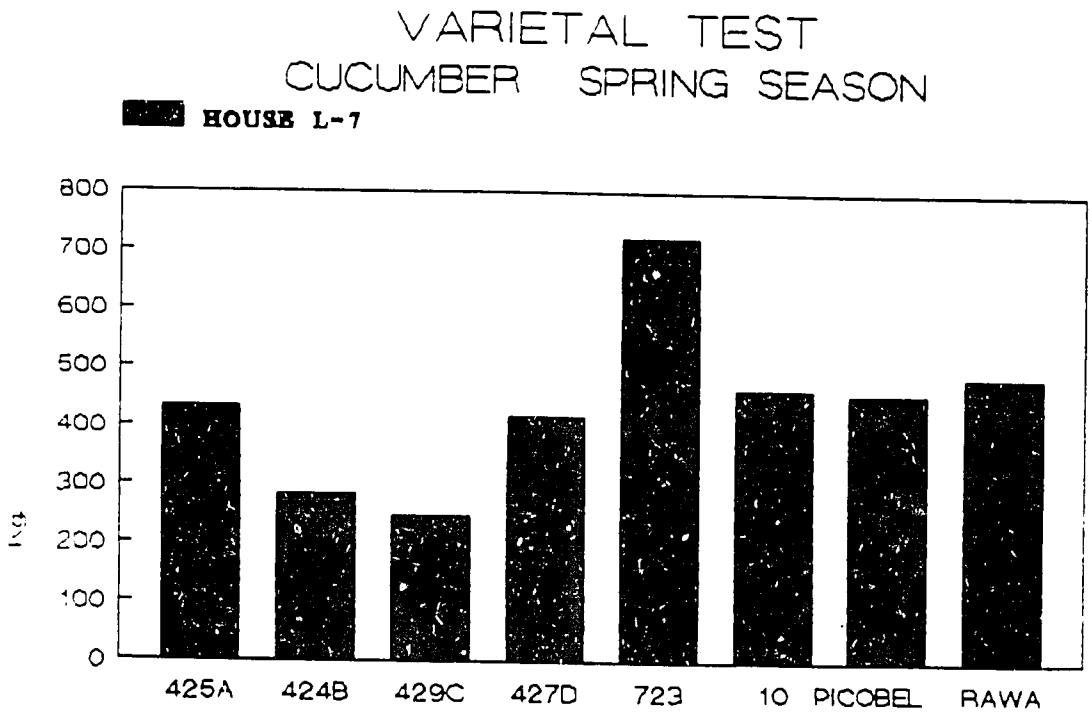
TRAILING AND PROUNING : ONE BRANCH PER PLANTS, CUTTING THE SUB BANCHES AFTER THE SECOND JOINT. THE BRANCHES WERE TRAILED WITH TREADS.

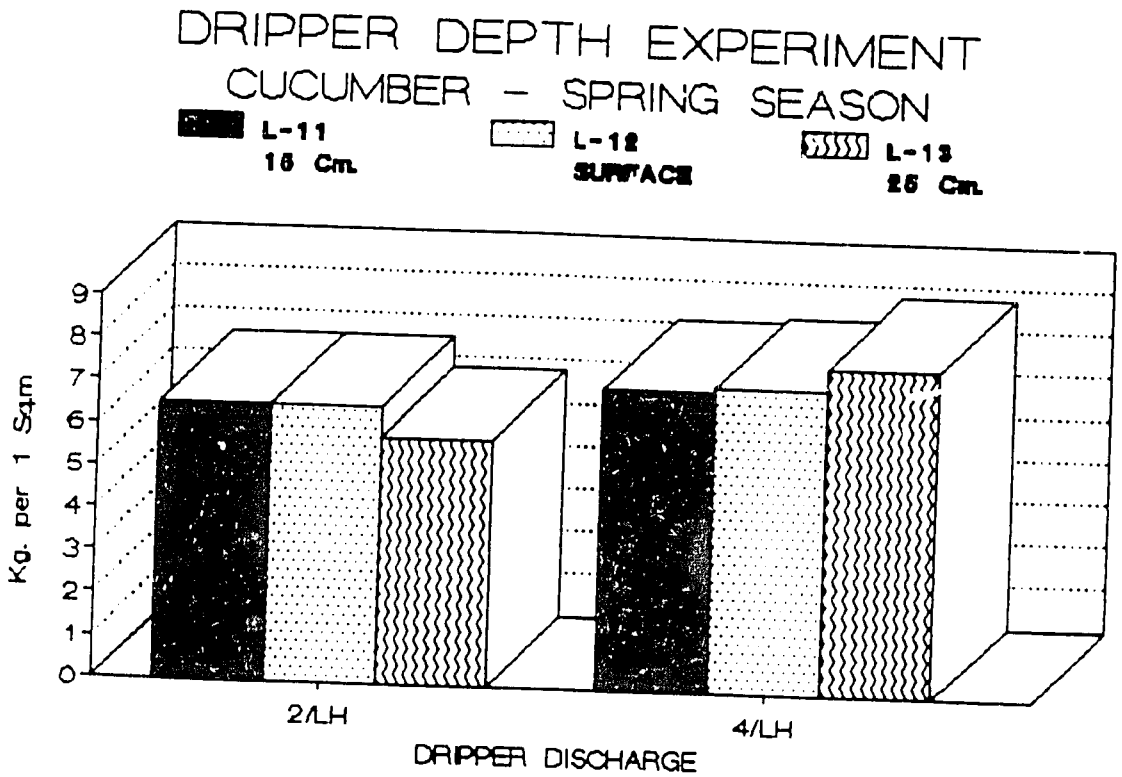
FERTIGATION SEE TABLE 2


SINGLE Vs. DOUBLE ROWS
CUCUMBER - IN WINTER
SINGLE ROW
L-11
DOUBLE ROWS
L-12
Kg. PER 1 Sqm
0
1
2
3
4
5
PICOBELO
CORDITO
CULTIVARS


CUCUMBERS
EFFECT OF MULCH
BLACK MULCH
CLEAR MULCH
CONTROL NO MULCH
Kg. PER 1 Sqm
0
1
2
3
4
5
6
7
8
9
10
HOUSE L-14
HOUSE S-14
PLASTIC HOUSES


LONG VS. SHORT PLASTIC HOUSES
CUCUMBER SPRING SEASON
BLACK MULCH
CLEAR MULCH
2000
1000
0
L-6 S-6
BLACK MULCH
CLEAR MULCH
NO MULCH
PLASTIC HOUSES


VARIETAL TEST
CUCUMBER SPRING SEASON
HOUSE L-7
800
700
600
500
400
300
200
100
0
Kg
425A
424B
429C
427D
723
10
PICOBEL
RAWA


DRIPPER DEPTH EXPERIMENT
CUCUMBER - SPRING SEASON
L-11
15 Cm.
L-12
SURFACE
L-13
25 Cm.
Kg. per 1 Sq.m
0
1
2
3
4
5
6
7
8
9
2/LH
4/LH
DRIPPER DISCHARGE

10-Jul-91

TOMATO WINTER/SPRING 1990/91

VARIETIES : CARMELLO, FA-144,FA-146, BR-135, BR-160, FA-111, U-65 AND CHERRY TOMATO.

PLANTIG DATES : MID SEPTEMBER, BEGINING OF OCTOBER, FEBRUARY AND OPEN FIELD IN MID SEPTEMBER NOVEMBER AND DECEMBER.

METHODE AND APPLICATION :
SPREADING SIX m3 CATTLE MANURE, 50 Kg. SUPER PHOSPHATE 25 Kg. AMONIUM SULPHATE, USEING ROTOVATOR TO MIX THE MANURE WITH THE SOIL, THEN FUMIGATE WITH METHYL BROMIDE AT RATIO OF 50gr. PER 1 Sq.m. THEN LICHING THE SOIL WITH 50 m3 WATER.

MANAGEMENT AND TECHNOLOGY : FALL/WINTER
LONG Vs. SHORT HOUSES : TWO HOUSES WERE PLANTED, ONE (L-1) SECOND (S-1) WITH THE CULTIVAR CARMELLO IN BEDS.

DENSITY : BOTH HOUSES PLANTED SEEDLINGS AT DISTANCES OF 50 Cm. BETWEEN PLANTS AND 50 Cm. BETWEEN ROWS.

RESULTS :	LONG HOUSE	SHORT HOUSE
Kg/1 Sq.m	2.72	3.10

IT SEEMS THAT SHORT HOUSE HAS GIVEN BETTER RESULTS.

REMARK: DUE TO BEMISIA DAMAGES THE TOTAL YIELD IS LOW.

VARIETAL TEST

TWO HOUSES WERE PLANTED WITH THE SAME CULTIVAS, LONG HOUSE AND SHORT HOUSE.
DENSITY : BOTH HOUSES PLANTED SEEDLINGS AT DISTANCES OF 50 Cm. BETWEEN PLANTS AND 50 Cm. BETWEEN ROWS.

RESULTS (Kg. per 1 Sq.m)

CULTIVAR	FA-146	CARMELO	U-65	FA-144	BR-135	FA-111	BR-160
L-2	5.40	5.23	5.35	6.75	5.26	5.08	5.05
S-2	5.04	7.25	6.97	8.21	6.80	7.94	7.54

REMARK: DUE TO BEMISIA DAMAGES THE TOTAL YIELD IS LOW.

SPRING : TWO ACTIVITIES WERE PERFORMED IN THIS SEASON
A - VARIETAL TEST OF CHERRY TOMATOES.
B - VARIETAL TEST AND OBSARVATION OF NEW CULTIVARS.

10-Jul-91

CHERRY VARIETAL TEST

ONE HOUSE WAS PLANTED WITH CHERRIES CULTIVARSS, LONG HOUSE
L-16 EACH CULTIVAR WAS PLANTED IN REPLICATION OF 45 PLANTS.
DENSITY : THE HOUSE PLANTED SEEDLINGS AT DISTANCES OF 25 Cm.
BETWEEN PLANTS AND 90 Cm. BETWEEN ROWS.

RESULTS (Kg. per 1 Sq.m)

CULTIVAR	CH1	BR-138	BR-124
L-16	0.89	2.51	2.28

VARIETAL TEST

ONE SHORT HOUSE WAS PLANTEDWITH FOUR CULTIVARS (S-10)
EACH CULTIVAR WAS PLANTED IN FOUR REPLICATION.
DENSITY : THE HOUSE PLANTED SEEDLINGS AT DISTANCES OF 50 Cm.
BETWEEN PLANTS AND 90 Cm. BETWEEN ROWS.

RESULTS (Kg. per 1 Sq.m)

CULTIVAR	FA-191	FA-192	V-32	FA-23
S-10	7.91	7.21	5.46	6.84

OPEN FIELD ACTIVITIES

THREE ACTIVITIES HAS TAKING PLACE IN THE OPEN FILD SECTION.
ONE - " TYLCV " TOMATO YELLOW LEAF CURL VIRUS.
TWO - VARIETAL TEST.
THREE OBSARVATION ON NEW CULTIVARS.

TYLCV - TWO CULTIVARS WAS PLANTED AND OBSARVED, THREE WEEKS PLANTING COUNT OF PLANTS INFECTED WAS TAKING PLACE FOR THREE WEEKS ALSO THE YIELD HAS BEEN WEIGH.

RESULTS

CULTIVAR	Kg/15q.m	PLNANT WEEK 1	INFECTED WEEK 2	WEEK 3
TY-20	6.97	99	115	133
TY-15	5.16			

INFECTED PLANTS SEEMS TO BE INCREASING FROM THIRD WEEK 99 PLANT UP TO 133 PLANTS IN THE SIXTH WEEK.

OPEN FIELD VARIETAL TEST

THREE CULTIVAR WERE TESTED ORIT, BEN-SHEFER AND HA1
TWO PLOTS WAS PLANTED IN ROWS OF FOUR REPS. PER CULTIVAR.
FIRST PLOT WAS PLANTED ON 1/11/90, SECOND PLOT WAS PLANTED
ON 3/12/90.

RESULTS

CULTIVAR	ORIT	B.SHEFER	HA1
F.PLOT	5.62	4.37	4.15
S.PLOT	20.60	6.08	11.65

FIRST PLOT SUFFERED FROM WHIT FLY ATTACK.

OBSARVATION

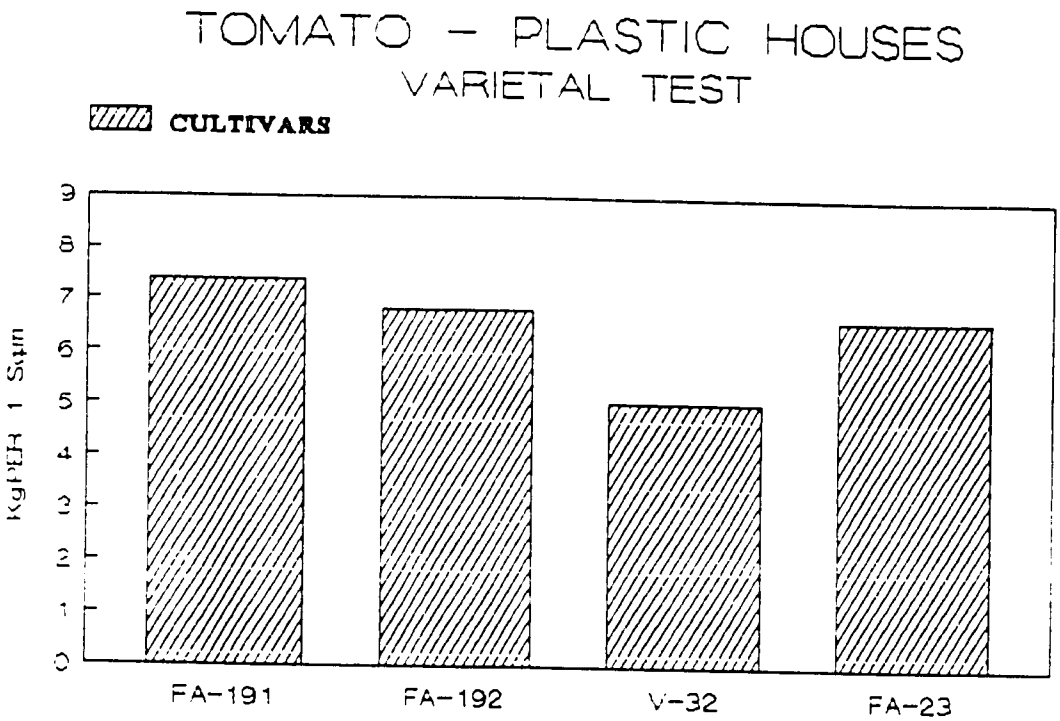
NEW CULTIVARS WERE UNDER OBSARVATION FOR REACING DECISION
WETHER TO PUT THEM UNDER VARIETAL TEST NEXT SEASON.

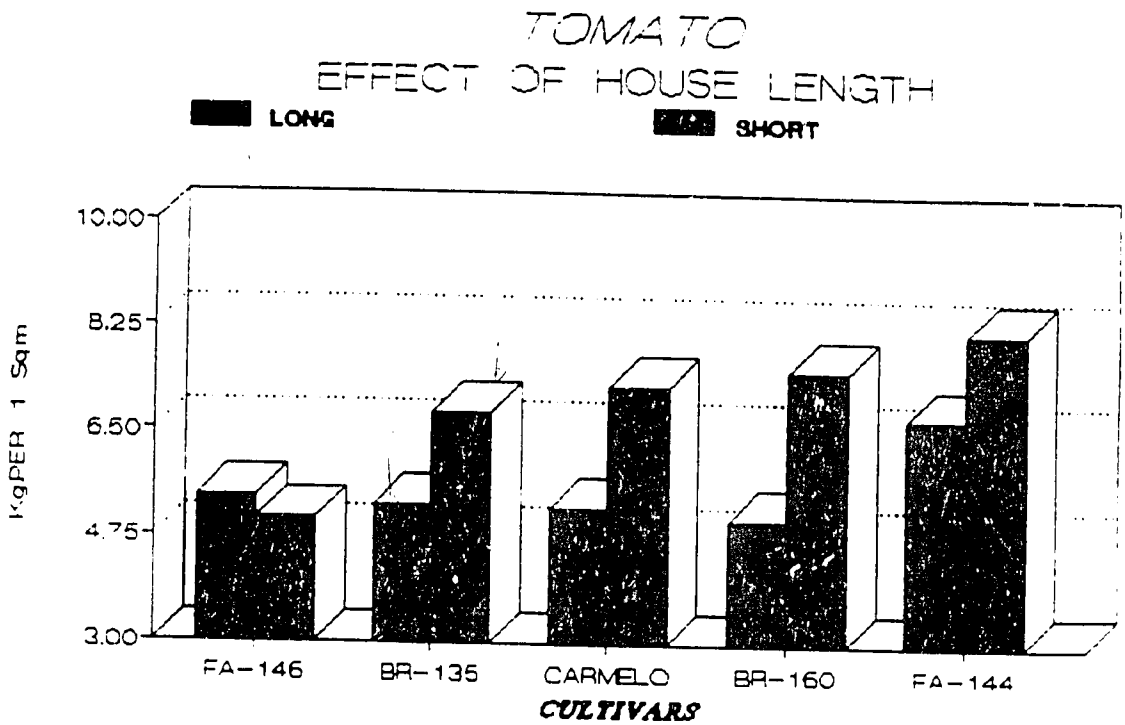
RESULTS (Kg. per 1 Sq.m)

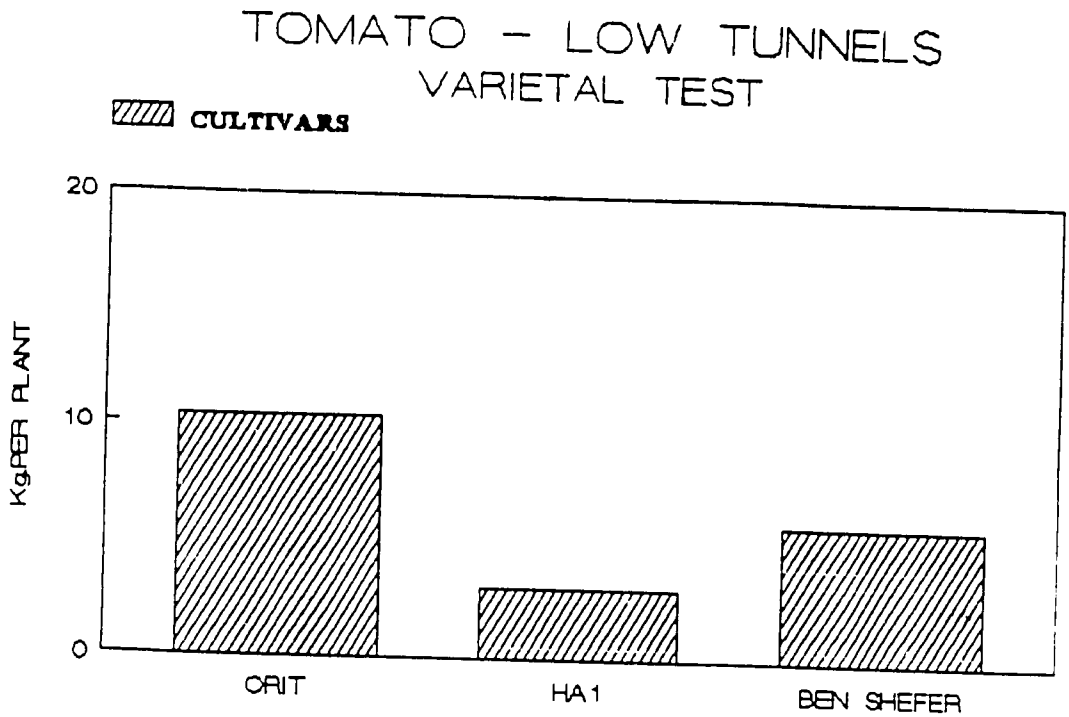
CULTIVAR	9732	9356	5910	5912	9671
Kg/1 Sq.m	4.65	7.05	5.88	6.38	7.39

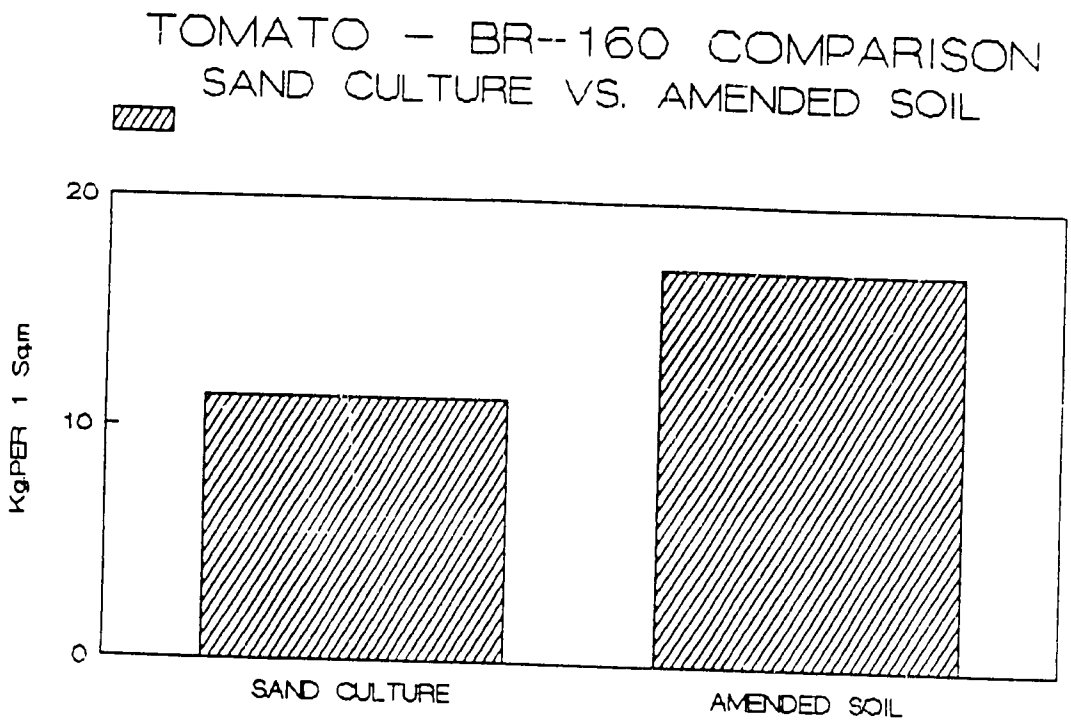
CULTIVAR	9171	9692	BP-84	7661	5656
Kg/1 Sq.m	7.39	8.24	3.85	3.18	3.18

THE CULTIVARS - 9692, 9171, 9671, 9356 AND 5912


TOMATO - PLASTIC HOUSES
VARIETAL TEST
CULTIVARS
Kg/PEH 1 Sem
0
1
2
3
4
5
6
7
8
9
FA-191
FA-192
V-32
FA-23


TOMATO
EFFECT OF HOUSE LENGTH
LONG
SHORT
10.00
8.25
6.50
4.75
3.00
KgPER 1 Sqm
FA-146
BR-135
CARMELO
BR-160
FA-144
CULTIVARS


TOMATO - LOW TUNNELS
VARIETAL TEST
CULTIVARS
20
10
0
Kg.PER PLANT
CRIT
HA1
BEN SHEFER


TOMATO - BR--160 COMPARISON
SAND CULTURE VS. AMENDED SOIL
20
10
0
KgPER 1 Sqm
SAND CULTURE
AMENDED SOIL

10-Jul-91

MELONS

VARIETIES : GALIA, GALIA C-8, ARAVA, DAFNA, SHAVIT, MAKDIMON
IMPROVED MAKDIMON, AND GALIA 5.

PLANTIG DATES : MID DECEMBER, JANUARY, FEBRUARY MARCH AND APRIL
OPEN FIELD IN MID MARCH.

METHODE AND APPLICATION :
SPREADING THREE m3 CHICKEN MANURE, 50 Kg. SUPER PHOSPHATE
25 Kg. AMONIUM SULPHATE, USEING ROTOVATOR TO MIX THE MANURE
WITH THE SOIL, THEN FUMIGATE WITH METHYL BROMIDE AT RATIO OF
50gr. PER 1 Sq.m. THEN LICHING THE SOIL WITH 50 m3 WATER.

MANAGEMENT AND TECHNOLOGY :
TWO MAIN ACTIVITIES WAS HELD IN THE MELONS PLOT.
FIRST WAS VARIETAL TEST, SEVEN CULTIVARS WERE PLANTED IN FOUR
REPS AND EACH REPS. PLANTED 48 PLANTS.
DENSITY :THE HOUSE PLANTED SEEDLINGS AT DISTANCES OF 50 Cm.
BETWEEN PLANTS AND 90 Cm. BETWEEN ROWS.

RESULTS

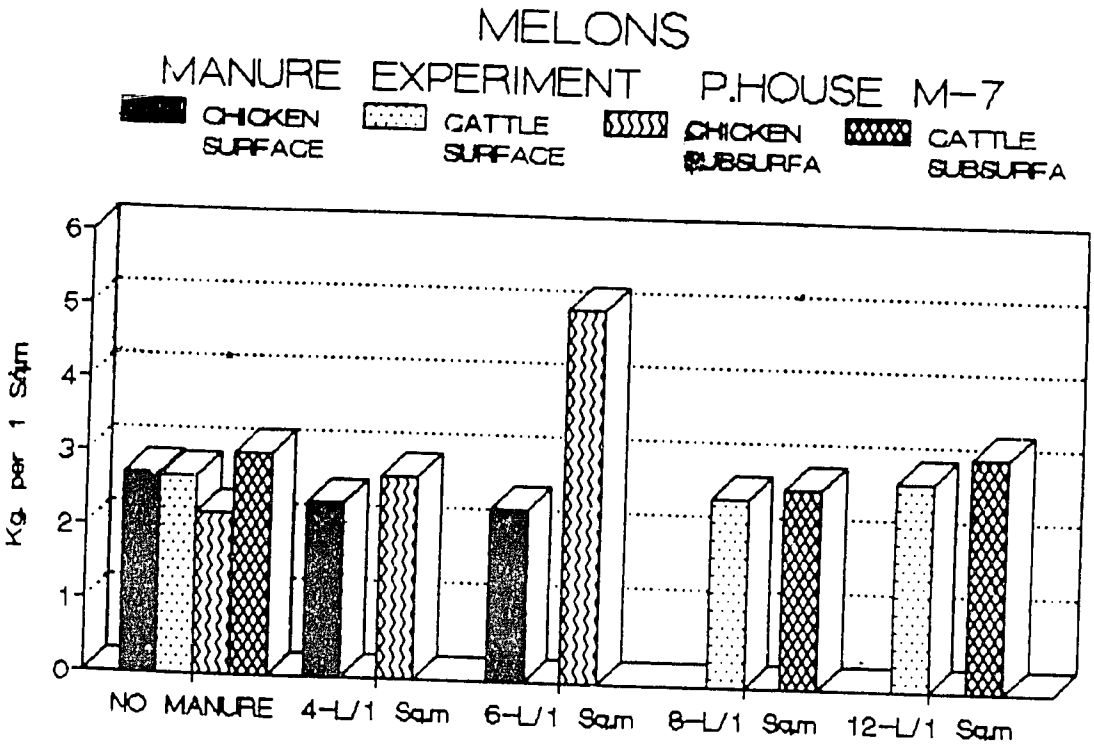
CULTIVAR	GALIA	GALIA C-8	ARAVA	SHAVIT	DAFNA	MAKDIMON	I.MAKD.
Kg/1 Sq.m	4.53	6.06	4.85	5.61	5.32	5.92	6.43
AV.Kg.per FRUIT	0.57	0.54	0.55	0.51	0.52	0.60	0.66

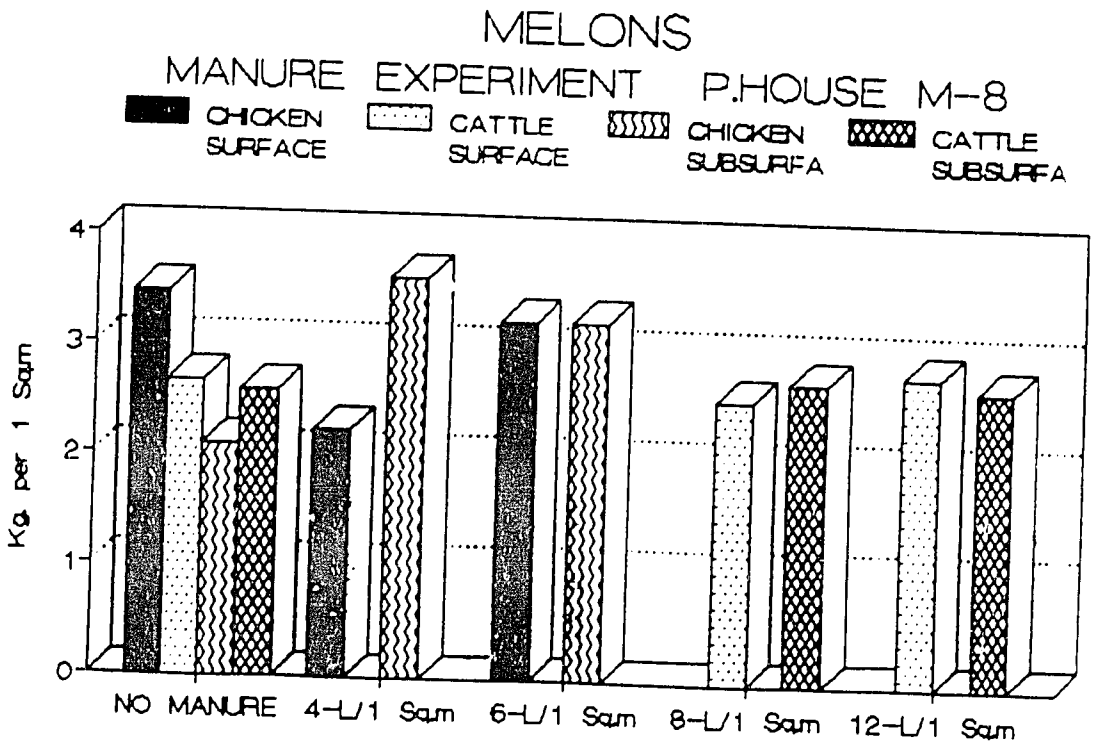
THERE IS SMALL VARIATION AMONG THE CULTIVAR,
THE SAME APPLIED TO THE FRUIT SIZE, BUT FRUIT SIZE MAY BE
EFFECTED BY HIGH RATIO OF SALINITY.

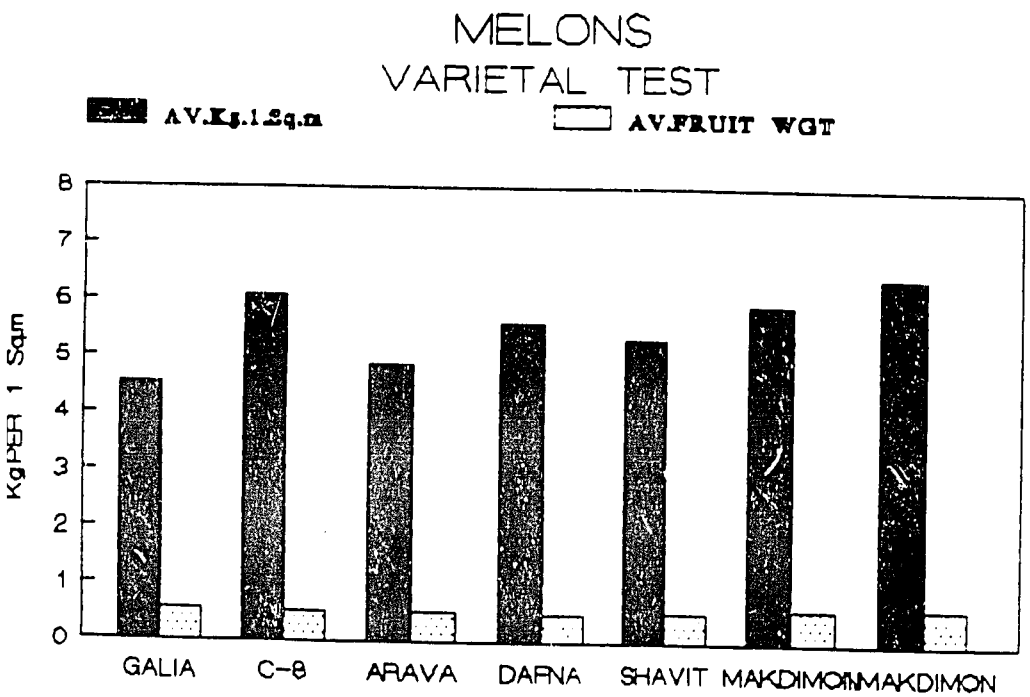
EFFECT OF MANURE :
THE CULTIVAR GALIA WAS PLANTED IN TWO HOUSES (49m,x9m,)
DIVIDED INTO 12 PLOTS TREATED WITH DIFFERENT RATIO OF MANURE
AS FOLLOW : 0L/Sq.m FOR CONTROL 4-L/Sq.m 6-L/SQ.M AND
12-L/Sq.m, 4, and 6 WAS CHICKEN MANURE 8 AND 12/L CATTLE MANURE.

RESULTS

SEE TABLE M-6,M-7 AND GRAPH


MELONS
MANURE EXPERIMENT P.HOUSE M-7
CHICKEN SURFACE
CATTLE SURFACE
CHICKEN SUBSURFA
CATTLE SUBSURFA
Kg per 1 Sqm
0
1
2
3
4
5
6
NO MANURE
4-L/1 Sqm
6-L/1 Sqm
8-L/1 Sqm
12-L/1 Sqm


MELONS
MANURE EXPERIMENT P.HOUSE M-8
CHICKEN SURFACE
CATTLE SURFACE
CHICKEN SUBSURFA
CATTLE SUBSURFA
Kg per 1 Sqm
0
1
2
3
4
NO MANURE
4-L/1 Sqm
6-L/1 Sqm
8-L/1 Sqm
12-L/1 Sqm


MELONS
VARIETAL TEST
AV.Kg.1.Sq.m
AV.FRUIT WGT
KgPER 1 Sqm
0
1
2
3
4
5
6
7
8
GALIA
C-8
ARAVA
DARNA
SHAVIT
MAKDIMON
MAKDIMON

LONG PLASTIC HOUSE L-5 VARIETY TEST EGGPLAN

DATE OF PLANTING 12/9/90 (date of sowing in nursery 2/8/90)

DENSITY :SINGLE LINE, SEVEN LINES OF 58 m
DISTANCES BETWEEN LINES 1m, DISTANCES BETWEEN SEEDLINGS 50 cm
IT HAS BEEN PLANTED IN FOUR REPLICATION 29 PLANTS EACH.

VARIETIES : OTHELLO, EDNA, FLORIDA MARKET, LONG VIOLET XP-183
XP-1726, XP-1474, XP-131

METHODE :SPREADING SIX m3 CATTLE MANURE, 50 Kg. SUPER PHOSPHATE
25 Kg. AMONIUM NITRAT, USEING ROTOTILLER TO MIX THE
MANURE WITH THE SOIL THEN FUMIGATE 50 grams PER 1m
THEN LEACHING THE SOIL WITH 100 m3 WATER THE PLANTING.

LONG PLASTIC HOUSE L-7 COMMERCIAL EGGPLAN

DATE OF PLANTING 12/9/90 (date of sowing in nursery 2/8/90)

DENSITY :SINGLE LINE, SEVEN LINES OF 58 m
DISTANCES BETWEEN LINES 1m, DISTANCES BETWEEN SEEDLINGS 50 cm
HALF OF THE HOUSE HAS BEEN PLANTED EACH CULTIVAR
THE NORTH SIDE FLORIDA MARKET THE SOUTH XP-183

VARIETIES : FLORIDA MARKET,XP-183

METHODE :SPREADING SIX m3 CUTTLE MANURE, 50 Kg. SUPER PHOSPHATE
25 Kg. AMONIUM NITRAT, USEING ROTOTILLER TO MIX THE
MANURE WITH THE SOIL THEN FUMIGATE 50 grams PER 1m
THEN LEACHING THE SOIL WITH 100 m3 WATER THE PLANTING.
IN SHORT HOUSE THE AMOUNT APPLIED IS HALF OF THE LONG HOUSE

PLASTIC HOUSES LONG VS. SHORT L-6,S-6 EGGPLAN

DATE OF PLANTING 13/9/90 (date of sowing in nursery 2/8/90)

DENSITY :SINGLE LINE, SEVEN LINES OF 58 m
DISTANCES BETWEEN LINES 1m, DISTANCES BETWEEN SEEDLINGS 50 cm

VARIETY : EDNA

METHODE :SPREADING SIX m3 CATTLE MANURE, 50 Kg. SUPER PHOSPHATE
25 Kg. AMONIUM NITRAT, USEING ROTOTILLER TO MIX THE
MANURE WITH THE SOIL THEN FUMIGATE 50 grams PER 1m
THEN LEACHING THE SOIL WITH 100 m3 WATER THE PLANTING.
IN SHORT HOUSE THE AMOUNT APPLIED IS HALF OF THE LONG HOUSE

SHORT PLASTIC HOUSE S-5 EGGPLANT CONTINUATION

DATE OF PLANTING 15/2/90 PRUNING DATE : 28/7/90

DENSITY :SINGLE LINE. SIX LINES OF 28 m
DISTANCES BETWEEN LINES 1m. DISTANCES BETWEEN SEEDLINGS 50 cm

VARIETIES :CLASSIC XP-1474,XP-172e, XP-139

METHODE :PRUNING THE OLD PLANTS AND LET THEM RENEW THER GROWTH.
LEACING THE SOIL WITH 50 m WATER AND THEN APPLY 0.5 kg.
COMPOUND FERTILIZERS 20-20-20

MAP OF THE HOUSE :FROM RIGHT TO LEFT - CLASSIC, XP-172e, XP-139
XP-1474, CLASSIC, CLASSIC.

SHORT PLASTIC HOUSE S-7 EGGPLANT COMMERCIAL

DATE OF PLANTING 13/9/90 (date of sowing in nursery 2/8/90)

DENSITY :SINGLE LINE. SEVEN LINES OF 28 m
DISTANCES BETWEEN LINES 1m. DISTANCES BETWEEN SEEDLINGS 50 cm
HALF OF THE HOUSE HAS BEEN PLANTED EACH CULTIVAR

VARIETIES : OTHELLO

METHODE :SPREADING 3 m3 CUTTLE MANURE, 25 kg. SUPER PHOSPHATE
12 KG. AMONIUM NITRAT, USEING ROTOTILLER TO MIX THE
MANURE WITH THE SOIL THEN FUMIGATE 50 grams PER 1m
THEN LEACHING THE SOIL WITH 100 m3 WATER THE PLANTING.
IN SHORT HOUSE THE AMOUNT APPLIED IS HALF OF THE LONG HOUSE

PLASTIC HOUSES VARIETY TEST S-8 PEPPER

DATE OF PLANTING 26/9/90 (date of sowing in nursery 2/8/90)

DENSITY :DOUBLE LINE, FOUR BEDS OF 28m TWO SINGLE ROWS AS BELTS. DISTANCES BETWEEN BED CENTER 160cm AND 30cm BETWEEN PLANTS. 18 PLANTS PER REPS. PER VARIETY ON EACH BED. FOUR REPLICATION FROM EACH VARIETY.

VARIETIES : MA'OR, GEDEON, XP-317, F-23, XP-807
XP-555, XP-503, XP-720, XP-905

METHODE :SPREADING THREE m3 CATTLE MANURE, 25 Kg. SUPER PHOSPHATE 12 Kg. AMONIUM NITRAT, USEING ROTOTILLER TO MIX THE MANURE WITH THE SOIL THEN FUMIGATE 50 grams PER 1m THEN LEACHING THE SOIL WITH 50 m3 WATER.

PLASTIC HOUSES VARIETY TEST S-9 PEPPER

DATE OF PLANTING 26/9/90 (date of sowing in nursery 2/8/90)

DENSITY :DOUBLE LINE, FOUR BEDS OF 28m TWO SINGLE ROWS AS BELTS. DISTANCES BETWEEN BED CENTER 160cm AND 30cm BETWEEN PLANTS. 18 PLANTS PER REPS. PER VARIETY ON EACH BED. FOUR REPLICATION FROM EACH VARIETY.

VARIETIES : XP-633 GEDEON, XP-190, XP-736, XP-622
XP-950, M-7205, XP-9785, XP-9750

METHODE :SPREADING THREE m3 CATTLE MANURE, 25 Kg. SUPER PHOSPHATE 12 Kg. AMONIUM NITRAT, USEING ROTOTILLER TO MIX THE MANURE WITH THE SOIL THEN FUMIGATE 50 grams PER 1m THEN LEACHING THE SOIL WITH 50 m3 WATER.

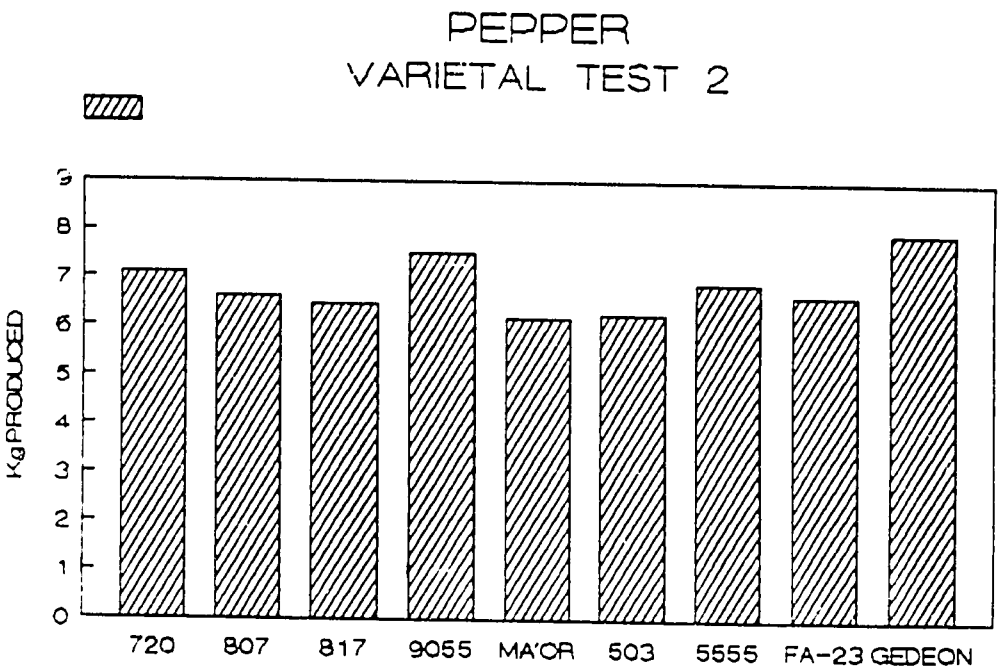
PLASTIC HOUSES COMMERCIAL L-S PEPPER

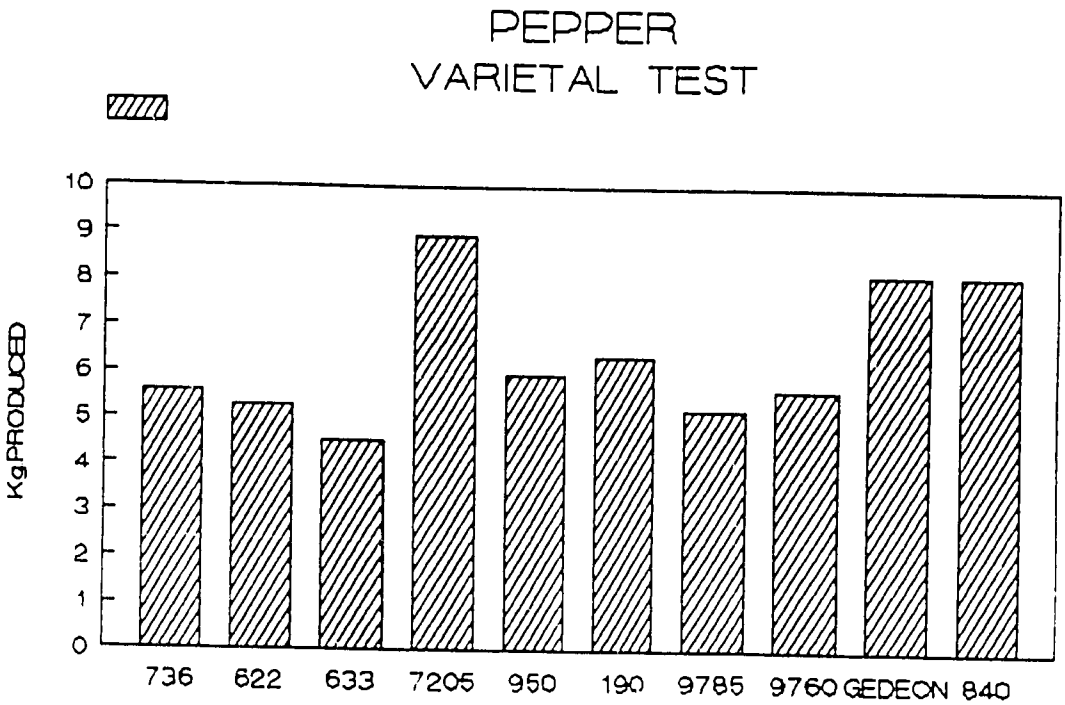
DATE OF PLANTING 26/9/90 (date of sowing in nursery 2/8/90)

DENSITY :DOUBLE LINE, FOUR BEDS OF 58m TWO SINGLE ROWS AS BELTS. DISTANCES BETWEEN BED CENTER 160cm AND 30cm BETWEEN PLANTS.

VARIETY : MA'OR

METHODE :SPREADING SIX m3 CATTLE MANURE, 50 Kg. SUPER PHOSPHATE 25 Kg. AMONIUM NITRAT, USEING ROTOTILLER TO MIX THE MANURE WITH THE SOIL THEN FUMIGATE 50 grams PER 1m THEN LEACHING THE SOIL WITH 100 m3 WATER THE PLANTING.


PEPPER
VARIETAL TEST 2
Kg PRODUCED
0
1
2
3
4
5
6
7
8
9
720
807
817
9055
MA'OR
503
5555
FA-23
GEDEON


PEPPER
VARIETAL TEST
Kg PRODUCED
0
1
2
3
4
5
6
7
8
9
10
736
622
633
7205
950
190
9785
9760
GEDEON
840

09-Jul-9

SMALL CROPS

CROPS : SQUASH, GREEN BEENS WATERMELON AND ARTICHOCK

SQUASH - WINTER PLANTING UNDER LOW TUNNELS AND SPRING PLANTING IN PLASTIC HOUSE.

GREENBEENS - ONE PLASTIC HOUSE.

WATERMELON - YELLOW WATERMELON UNDER LOW TUNNELS.

ARTICHOCK - OPEN FIELD FOUR VARIETIES ONE IS LOCAL.

MARYUT PROJECT

GREEN BEANS

PLANTING DATE : 2/2/91

P.HOUSE L-15

DATE	Kg.
MAR-03	5.00
MAR-19	8.00
MAR-22	17.00
MAR-29	50.00
APR-02	160.00
APR-05	160.00
APR-12	140.00
TOTAL	527.00

AV.Sq.M 1.01

09-Jul-91

MARYUT PROJECT

SQUASH

PLANTING DATE : 11/11/90

OPEN FIELD — WINTER

DATE	MA'AYAN	BAREQUET	GOLDY	BAROZ	CLAIR	W.BUSH
DEC-21	3,50	0,75	0,50		1,00	2,00
DEC-27	2,00	2,90		3,00	0,50	2,50
JAN-5	8,75	12,20		10,30	2,35	7,70
JAN-14	6,30	6,40		7,40	2,80	7,50
JAN-20	5,90	5,60		4,40	2,00	1,00
JAN-24	10,30	4,40	4,00	5,70	3,00	4,80
JAN-28	2,95	7,20		4,80	3,60	4,80
FEB-2	5,30	8,04		6,45	2,70	2,40
FEB-5	0,76	2,40	1,18	1,26	1,28	2,30
FEB-12	3,80	7,83	1,25	3,90	2,40	2,10
FEB-17	7,50	9,60	3,25	3,80	2,50	2,60
FEB-24	4,80	18,60	7,30	8,20	5,00	6,30
MAR-4	4,70	15,00	3,50	4,70	4,10	6,50
MAR-8	2,38	4,68	2,14	1,58	1,82	2,79
MAR-12	2,70	11,00		1,25	2,10	0,80
TOTAL	71,64	116,60	23,12	66,74	37,15	56,09
NUMBER PLANTS	48	72	24	48	24	36
AV.Kg.PER PLANT	1,49	1,62	0,96	1,39	1,55	1,56
AV.Kg.PER Sq.m	2,98	3,24	1,93	2,78	3,10	3,12

MARYUT PROJECT

SQUASH

DATE OF
PLANTING 11.11.90

OPEN FIELD VARIETAL TEST

DATE	MA'AYAN	BAREQUET	GOLDY	BAROZ	CLAIR	W.HYBRID
DEC-21	3.50	0.75	0.50	0.00	1.00	2.00
DEC-27	2.00	2.90		3.00	0.50	2.50
JAN-05	8.75	12.20		10.30	2.35	7.70
JAN-14	6.30	6.40		7.40	2.80	7.50
JAN-20	5.90	5.60		4.40	2.00	1.00
JAN-24	10.30	4.40	4.00	5.70	3.00	4.80
JAN-28	2.95	7.20		4.80	3.60	4.80
FEB-02	5.30	8.08		6.45	2.70	2.40
FEB-05	0.76	2.40	1.16	1.26	1.28	2.30
FEB-12	3.80	7.83	1.25	3.90	2.40	2.10
FEB-17	8	9.60	3.25	3.20	2.60	2.60
FEB-24	4.80	18.60	7.30	8.20	6.30	6.30
MAR-04	4.70	15.00	3.50	4.10	6.50	6.50
MAR-08	2.36	4.68	2.14	1.56	2.79	2.79
MAR-12	2.70	11.00		1.25	0.80	0.80
TOTAL	71.64	77.19	18.62	29.94	25.37	25.79
NO.PLANT	48	72	24	48	24.00	36
AV. PLANT	1.49	1.07	0.78	0.62	1.06	0.72

05-Jul-91

MARYUT PROJECT

SQUASH

PLANTING DATE : 20/3/91

P.HOUSE S-5 SPRING

DATE	BAREQUET	MA'AYAN	GOLDY
APR-29	3.75	7.50	3.50
MAY-02	2.50	3.00	2.75
MAY-05	3.50	3.75	3.50
MAY-07	10.70	4.30	8.70
MAY-09	14.00	16.00	10.00
MAY-13	10.75	5.50	6.50
MAY-15	5.00	2.50	4.25
MAY-18	7.00	5.50	8.50
MAY-20	10.00	12.00	11.00
MAY-22	5.25	7.50	4.75
MAY-25	19.00	19.50	16.00
MAY-27	5.50	6.75	4.25
MAY-29	9.00	7.75	5.00
JUN-01	13.70	12.75	8.50
JUN-03	10.25	11.75	6.50
JUN-05	5.50	10.25	2.75
JUN-08	20.75	14.00	14.00
JUN-10	8.00	6.00	6.00
JUN-12	7.25	7.50	6.75
JUN-15	6.50	10.25	8.25
JUN-18	8.00	7.00	10.00
JUN-20	7.75	7.50	8.75
JUN-23	12.50	6.50	12.00
TOTAL	206.15	195.05	172.20
NUMBER PLANTS	133	133	133
AV.Kg.PER PLANT	1.55	1.47	1.29
AV.Kg.PER Sq.m	3.10	2.93	2.59

05-Jul-91

MARYUT PROJECT

SQUASH P.HOUSE S-5

PLANT HIGHTS AND NUMBER OF FRUITS PER PLANT

CULTIVAR	NUMBER	PLANT HIGHT	NUMBER OF FRUITS	AVERAGE HIGHT	AV.FRUIT PER PLNT
MA'AYAN	1	0.65	18.00		
	2	0.65	27.00		
	3	0.60	20.00		
	4	0.63	22.00		
	5	0.60	18.00	0.63	21.00
GOLDY	1	0.70	19.00		
	2	0.65	17.00		
	3	0.65	18.00		
	4	0.82	21.00		
	5	0.68	20.00	0.70	19.00
BAREQUET	1	0.55	20.00		
	2	0.58	19.00		
	3	0.62	21.00		
	4	0.50	19.00		
	5	0.55	18.00	0.56	19.40

09-Jul-91

VEGETABLE NURSERY

CROPS : THE NURSERY PRODUCED ALL SEEDLINGS NEEDED ACCORDING TO THE PLAN
THE NURSERY HAVE THE POTENTIAL FOR GROWING IN ORDER TO COVER
THE LOCAL DEMAND.

HERE IS A LIST OF SEEDLINGS PRODUCED.

VEGETABLE SEEDLINGS PRODUCED BY

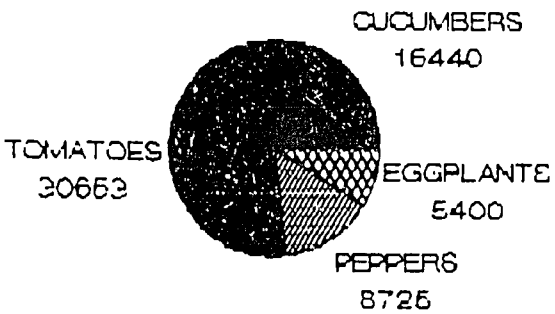
MARYUT PROJECT NURSERY

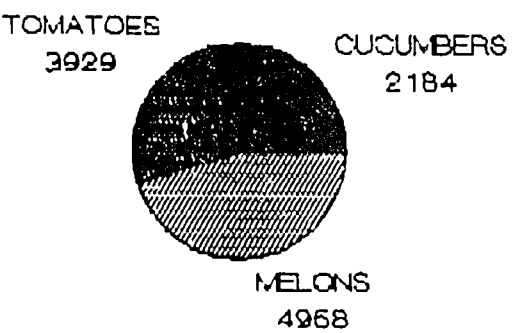
CROP	SOWING DATE	PLANTING DATE	GROWING PERIOD	QUANTITY
Cucumbers	12/8/90	11/9/90	30	2352
Cucumbers	18/9/90	10/10/90	22	11652
Cucumbers	19/9/90	10/10/90	21	2436
Cucumbers	6/11/90	4/12/90	28	2184
Cucumbers	28/2/91	26/3/91	28	2016
TOTAL CUCUMBERS				20640
Tomatoes	2/8/90	15/9/90	43	16121
Tomatoes	18/9/90	28/10/90	40	14522
Tomatoes	10/11/90	4/1/91	54	1031
Tomatoes	1/1/90	9/2/90	32	2898
Tomatoes	26/3/91	1/4/91	35	5586
TOTAL TOMATOES				40168
Pepper	2/8/90	26/9/90	54	8725
Eggplants	2/8/90	16/9/90	44	5400
Melons	2/11/90	14/12/90	42	1428
Melons	1/1/91	18/2/91	47	3530
TOTAL MELONS				4958
Watermelons	24/2/91	31/3/91	36	7140
Squash	21/10/90	11/11/90	20	220
Squash	28/2/91	27/3/91	28	1008
TOTAL SQUASH				1228
Artichok	2/8/90	16/9/90	44	105
Annual plants	4/10/90	21/11/90	47	4831
Total production				

* REMARK : GROWING PERIOD IN THE NURSERY COUNTED IN DAYS.

Tomatoes	2/8/90	35	40168
Cucumbers	11/9/90		20640
Pepper	2/8/90	25	8725
Watermelons	24/2/91	30	7140
Eggplants	2/8/90	25	5400
Melons	2/11/90	25	4958
Anual plants	4/10/90	60	4831
Squash	12/10/90	15	1228
Artichok	2/8/90	40	105

VEGETABLES NURSERY PRODUCTION





09-Jul-91

FERTIGATION

CROPS : TOMATO, CUCUMBERS, PEPPER, EGGPLANTS, SQUASH, MELONS, WATERMELONS, LETTUCE, SWEETCORN AND ARTICHOCK.

METHODE AND APPLICATION :

USEING TENSIOMETERS AND IRRIGATION PROGRAMS RECOMENDED BY THE ADVISORS

STUDY OF THE NITROGEN CONTRIBUTION ON THREE CROPS SHOW THAT THERE IS VARIATION OF THE TOTAL YIELD PER ONE Kg. " Nn "

SEE GRAPH AND FERTIGATION TABLE

08-Jul-91

MARYUT PROJECT

MANURE EXPERIMENT

AVEARAGE Kg. PER 1 Sq.m PER APPLICATION P.HOUSE M-7

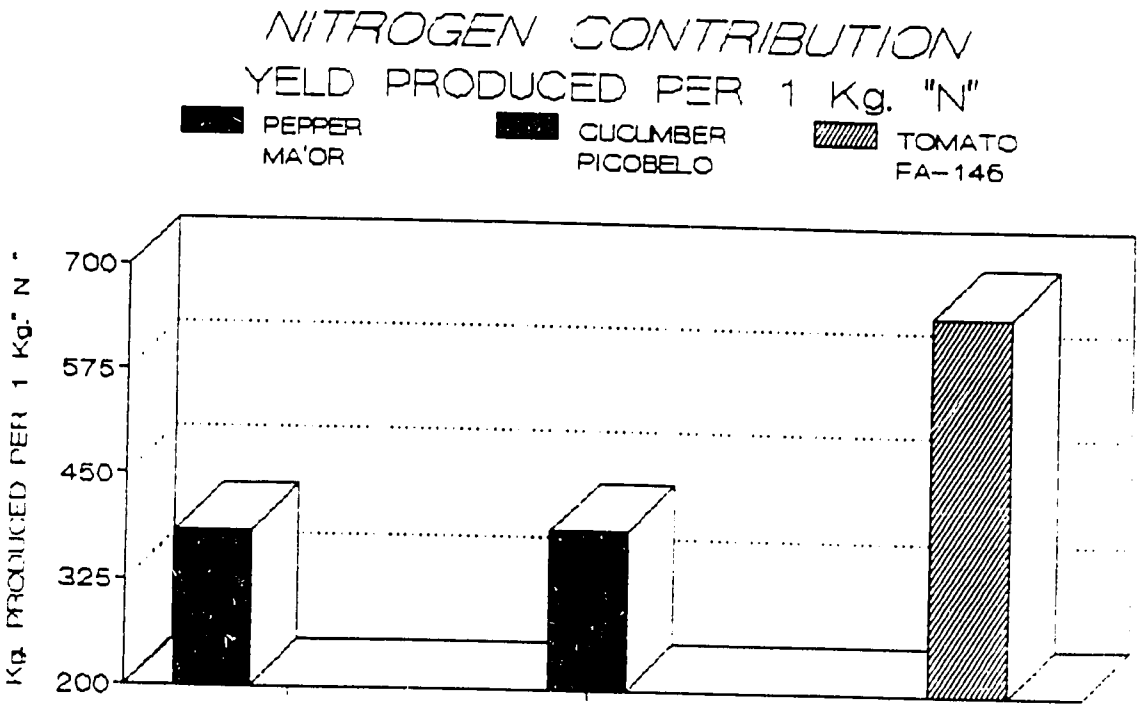
	SURFACE CHICKEN MANURE	SUBSURFACE CHICKEN MANURE	SURFACE CATTLE MANURE	SUBSURFACE CATTLE MANURE
0L-CONTROL	2.70	2.17	2.67	3.00
4L/1 Sq.m	2.36	2.73		
6L/1 Sq.m	2.31	5.07		
8L/1 Sq.m			2.56	2.70
			2.83	3.17

AVEARAGE Kg. PER 1 Sq.m PER APPLICATION P.HOUSE M-8

	SURFACE CHICKEN MANURE	SUBSURFACE CHICKEN MANURE	SURFACE CATTLE MANURE	SUBSURFACE CATTLE MANURE
0L-CONTROL	3.47	2.10	3.25	2.58
4L/1 Sq.m	2.24	3.62		
6L/1 Sq.m	3.25	3.26		
8L/1 Sq.m			2.58	2.74
12L/1 Sq.m			2.47	2.71

AVEARAGE Kg. PER 1 Sq.m PER APPLICATION P.HOUSE M-8/M-8

	SURFACE CHICKEN MANURE	SUBSURFACE CHICKEN MANURE	SURFACE CATTLE MANURE	SUBSURFACE CATTLE MANURE
0L-CONTROL	3.09	2.14	2.96	2.79
4L/1 Sq.m	2.30	3.18		
6L/1 Sq.m	2.78	4.17		
8L/1 Sq.m			2.57	2.72
12L/1 Sq.m			2.65	2.94


NITROGEN CONTRIBUTION
YELD PRODUCED PER 1 Kg. "N"
PEPPER
MA'OR
CUCUMBER
PICOBELO
TOMATO
FA-146
Kg. PRODUCED PER 1 Kg." N "
700
575
450
325
200

10-Jul-91

POST HARVEST

DATA FOR THE POST HARVEST STUDY HAS COLLECTED AND STUDIED CLOSELY AND AND HERE ARE THE RESULTS OF SUCH STUDIES :

TOMATO

SIZE WEIGHT AND FIRMNESS MESURMENT WERE TAKEN AS WELL AS WEIGHT LOSS AND TSS.

CUCUMBERS

SIZE WEIGHT AND FIRMNESS MESURMENT WERE TAKEN AS WELL AS WEIGHT LOSS.

MELONS

SIZE WEIGHT AND FIRMNESS MESURMENT WERE TAKEN AS WELL AS WEIGHT LOSS.

PEPPER

SIZE WEIGHT AND FIRMNESS MESURMENT WERE TAKEN AS WELL AS WEIGHT LOSS.

EGGPLANTS

SIZE WEIGHT AND FIRMNESS MESURMENT WERE TAKEN AS WELL AS WEIGHT LOSS AS WELL AS WRPPING WITH P.E.

TABLE OF POST HARVEST ACTIVITIES

CROP	WEIGHT	SIZE	FIRMNESS	WEIGHT LOSS	TSS
TOMATOES	+	+	+	+	+
CUCUMBERS	+	+	–	–	–
MELONS	+	+	+	+	+
PEPPER	+	+	–	+	+
EGGPLANTS	+	+	–	+	+
SQUASH	+	+	–	+	–

MARYUT PROJECT

CUCUMBER

CULTIVAR CORDITO

POST HARVEST DATA

WEIGHT LOSS IN WEEK 13/5/91

CULTIVAR	LENGTH Cm.	DIAMETER Cm.	WEIGHT grams	% WEIGHT LOSS
425A	18.48	3.28	128.00	29.68
424B	16.04	3.62	118.60	27.31
429C	15.46	3.86	135.60	26.40
427D	14.52	3.16	88.00	34.54
723	16.98	3.34	112.20	19.25
10	16.84	3.38	109.20	23.62
PICOBELLO	15.22	3.08	85.00	26.35
RAWA	14.38	3.12	74.60	38.62

WEIGHT LOSS IN WEEK 16/5/91

CULTIVAR	LENGTH Cm.	DIAMETER Cm.	WEIGHT grams	% WEIGHT LOSS
425A	16.12	3.04	84.80	26.38
424B	14.24	2.86	62.40	27.56
429C	16.34	3.34	106.80	21.34
427D	14.58	3.00	76.40	34.03
723	15.76	3.30	80.00	24.50
10	15.46	3.14	94.00	19.14
PICOBELLO	15.64	2.58	81.00	24.93
RAWA	17.04	2.90	94.60	39.11

MARYUT PROJECT

MELONS

WEEKLY WEIGHT LOSS 13/5/91

CULTIVAR	LENGTH Cm.	DIAMETER Cm.	WEIGHT grams	% WEIGHT LOSS
GALIA C-8	11.06	10.04	587.20	7.90
GALIA	10.94	10.28	652.20	8.00
SHAVIT	11.30	11.00	803.60	7.19
DAFNA	10.52	10.60	681.60	14.15
ARAVA	11.12	10.89	755.00	6.23
MAKDIMON	11.15	10.13	649.95	7.31
MAKD. I	11.30	10.80	781.00	9.82

WEEKLY WEIGHT LOSS M-8

NUMBER ROW	LENGTH Cm.	DIAM. Cm.	3/6 grams	16/6 grams	%WGHT LOSS
1	4,30	5,08	74,20	36,00	-51,48
2	4,16	5,44	71,80	35,20	-50,97
3	5,34	6,98	151,80	76,60	-49,54
4	4,90	6,62	130,80	78,00	-40,37
5	5,06	6,38	132,80	86,40	-34,94
6	5,68	7,64	198,60	144,80	-27,09
7	5,30	7,06	154,40	110,80	-28,24
8	5,22	6,88	144,20	97,40	-32,45
9	4,82	6,54	125,00	97,00	-22,40
10	5,40	6,80	149,60	97,20	-35,03

MESURMENT & T.S.S 23/5/91

CULTIVAR	LENGTH Cm.	DIAMETER Cm.	HEIGHT grams	% TSS
GALIA C-8	9,35	9,90	467,00	8,5
GALIA	10,70	9,70	580,50	10,0
SHAVIT	12,10	11,25	885,00	9,7
DAFNA	11,10	10,80	719,00	10,6
ARAVA	10,80	9,55	464,50	7,1
MAKDIMON	10,70	9,95	576,00	7,8
MAKD. I	10,85	9,50	575,00	8,8

08-Jul-91

MARYUT PROJECT

MELONS

WEEKLY WEIGHT LOSS

NUMBER	LENGTH Cm.	DIAM. Cm.	3/6 grams	12/6 grams	% WGHT LOSS
1	10.50	9.40	549.80	494.80	-10.00
2	11.60	10.80	762.80	635.70	-16.66
3	10.40	9.70	541.40	496.00	-8.39
4	10.60	12.80	723.40	498.60	-31.08
5	10.70	10.10	656.20	319.50	-51.31
6	10.20	10.00	578.80	528.70	-8.66
7	11.80	11.50	826.00	748.80	-9.35
8	11.70	11.80	924.40	599.00	-35.20
9	9.60	9.70	519.60	485.00	-6.66
10	10.20	10.20	[illegible]	570.00	-9.44
11	11.70	10.50	919.20	638.40	-30.55
12	10.60	11.20	713.20	364.40	-48.91
GAL-C5	12.30	10.90	919.20	814.00	-11.44

WEEKLY WEIGHT LOSS M-7

PLOT NUMBER	LENGTH Cm.	DIAM. Cm.	16/5 grams	24/5 grams	%WGHT LOSS
1	16.80	11.50	914.00	863.00	-5.58
2	16.10	11.30	904.40	803.00	-11.21
3	18.50	14.10	1160.00	976.80	-15.79
4	15.70	11.20	934.40	802.00	-14.17
5	14.70	11.40	966.00	850.80	-11.93
6	17.20	11.50	935.20	818.80	-12.45
7	17.00	11.10	898.00	800.60	-10.85
8	17.60	11.40	1085.00	882.60	-18.65
9	16.60	11.20	958.40	823.80	-14.04
10	15.80	10.00	693.60	623.20	-10.15
11	13.10	13.80	688.80	585.20	-15.04
12	15.40	10.80	796.40	715.60	-10.15

08-Jul-91

MARYUT PROJECT

TOMATO

FIRMNESS 26/5/91

CULTIVAR	LENGTH Cm.	DIAMETER Cm.	WEIGHT grams	FIRM. Kg.
FA-146	5.4	6.7	159.8	1.8
BR-135	4.7	6.5	123.8	1.8
FA-192	5.5	7.6	208.1	2.3
FA-191	5.2	7.3	161.8	2.1
V-32	5.5	7.5	179.0	1.8
FA-23	5.3	8.0	193.0	1.7

* FIRMNESS BY Kg.

MESURMENTS & WEIGHT LOSS

CULTIVAR	LENGTH Cm.	DIAMETER Cm.	2/6 grams	16/6 grams	TOTAL LOSS	TOTAL % W.LOSS
FA-146	4.9	6.5	140.0	93.4	46.60	33.29
FA-23	5.0	7.0	89.8	60.0	29.80	33.18
FA-192	5.3	7.4	220.4	129.4	91.00	41.29
FA-191	7.4	6.9	148.4	127.0	21.40	32.42
V-32	5.2	6.7	137.6	92.4	45.20	32.85
BR-135	4.7	6.3	119.0	76.4	42.60	35.80

MESURMENTS & WEIGHT LOSS

CULTIVAR	LENGTH Cm.	DIAM. Cm.	16/5 grams	29/5 grams	TOTAL W.LOSS	TOTAL %W.L.
FA-146	4.5	6.7	149.0	139.40	9.6	6.4
FA-23	5.4	7.1	172.4	156.20	16.2	9.4
FA-192	5.8	7.6	208.6	185.60	23.0	11.0
FA-191	5.8	8.0	223.6	187.00	36.6	16.4
V-32	6.1	7.7	208.4	183.20	25.2	12.1
BR-135	5.2	6.7	146.8	138.20	8.6	5.9

EGGPLANTS

10-Jul-91

WRAPED WITH P.E. 6/6/91 16/6/91

CULTIVAR	LENGTH Cm.	DIAMETER Cm.	WEIGHT grame	WEIGHT grame	% WEIGHT LOSS
XP-1474	10.50	7.60	225.70	210.70	-6.65
XP-1726	13.10	4.70	322.00	256.70	-20.28
XP-183	13.00	3.60	102.00	92.00	-9.80
XP-131	11.50	7.40	359.70	337.70	-6.12
EDNA	14.50	6.30	229.00	215.00	-6.11
OTHELLO	14.50	12.50	230.00	215.30	-6.39
L.VIOLET	16.50	4.20	127.70	119.30	-6.58
F.MARKET	13.50	7.10	233.00	219.70	-5.71

UN WRAPED 6/6/91 16/6/91

CULTIVAR	LENGTH Cm.	DIAMETER Cm.	WEIGHT grame	WEIGHT grame	% WEIGHT LOSS
XP-1474	9.50	6.70	237.70	200.70	-15.57
XP-1726	11.50	5.20	243.00	119.70	-50.74
XP-183	12.00	3.70	107.70	69.30	-35.65
XP-131	11.00	6.90	256.70	152.00	-40.79
EDNA	16.00	7.80	279.00	222.00	-20.43
OTHELLO	15.00	6.20	211.00	176.70	-16.26
L.VIOLET	15.00	3.80	125.70	109.70	-12.73
F.MARKET	14.50	6.90	242.40	205.30	-15.31

ANNUAL REPORT OF FRUIT TREES

1. DATA ON VEGETATIVE GROWTH OF DIFFERENT FRUIT TREES WERE TAKEN

2. PRUNING OF DIFFERENT FRUIT TREES WAS APPLIED DURING SUMMER AND WINTER USING VASE OR MODIFIED CENTER LEADER ACCORDING TO THE CULTIVAR.

3. MISSING PLANTS AS WELL AS NEW VARIETIES WERE PLANTED.

4. THE NEW FRUIT TREES INCLUDED ALMOND, APRICOT, MANGO DWARF, LOQUAT ANNONA HYBRID AND KHASHABI APPLE ROOTSTOCK.

5. KHASHABI APPLE ROTSTOCK WAS PLANTED IN THE NURSERY TO PRODUCE ROOTSTOCK LOCALLY.

6. NEMAGOURD AND NEMARED PEACH SEEDS WERE STRATIFIED AT 5 CENTIGRATE FOR THREE MONTH THEN SOWED IN THE NURSERY TO PRODUCE DIFFERENT RUDED VARIETIES OF PEACHES FOR DISTRIBUTION AMONG THE LOCAL GROWERS AND FOR THE PROJECT NEEDS.

7. IN SITE PRODUCTION OF MM106 APPLE ROOTSTOCK WERE SEPARATED FROM TH MOTHER PLANTS AND PLANTED AGAIN FOR GRAFTING WITH DIFFERENT APPLE CULTIVARS.

PLAN FOR THE 1991/1992 SEASON

1. EVALUATION OF PREVIOSLY INTRODUED VARIETIES OF DIFFERENT SPECIES WITH REGARD TO VEGETATION GROWTH AND FRUOTING CHARACTERISTICS.

2. DETERMINATION OF CHILING AND HEAT UNITS REQUIERMENT FOR EACH CULTIVAR OF DIFFERENT SPECIES OF DECIDUOUS FRUIT TREES AS WELL AS DETERMINATION OF FLOWER AND BUD BREAK DATE, FRUIT SET YIELD AND FRUIT CHARACTERISTIC.

3. USE OF DIFFERENT DORMANCY BREAKING MATERIALS TO INDUCE BUDBREAK OF SOME DECIDUOUS FRUIT TREES

4 TESTING SOME GROWTH REGULATING TO IMPOSE FRUIT QUALITY.

5. INSTALATION OF DIFFERENT TRELLESSING SYSTEMS FOR DIFFERENT GRAPE GRAPE VARIETIES UNDER INVESTIGATION, Y SHAPE AND T SHAPE.

6. IMPORTATION OF RECENTLY RELEASED CULTIVARS AND ROOTSTOCK OF SOME FRUIT TREES SUCH AS ELIOT PEAR (RESISTANT TO FIRE BLIGHT) FLORIDA GOURD PEACH ROOTSTOCK (HAD THE SAME CHARACTERISTICS OF THE THREE KNOWN ROOTSTOCKS, NEMAGOURD, NEMARED AND OKINAWA) AND HANSEN ROOTSTOCK (RESISTANT TO NEMATODE AND SUITABLE FOR CALCAROUS SOILS).

7. EVALUATION OF DIFFERENT TRAINING SYSTEMS FOR APPLE i.e FREE PALMETT MODIFIED CENTER LEADER

8. DISTRIBUTION OF FRUIT TREES KNOWN TO PRODUCE GOOD QUALITY AND YIELD AS WELL AS DISTRIBUTION OF SOME ROOTSTOCK THAT PROVED TO BE RESISTANT TO DIFFERENT DISEASES AND INSECTS.

06-Jul-91

MARYUT PROJECT

INDEX

FRUIT CROP PLANTED IN THE PROJECT

No.	CROP	VARIETIES	NUMBER TREES	PLANTED AREA
1	ALMOND	6	525	2.5
2	PEAR	4	192	1.25
3	PERSIMMON	2	200	1
4	PEACHES	11	556	2.5
5	PLUMS	4	356	2.5
6	APRICOTS	4	370	2.5
7	APPLE	6	688	2.5
8	PECAN	6	289	2.5
9	GRAPE	4	524	0.5
10	D.MANGO	4	160	0.5
12	BANANA	1	275	0.5

Dr. ASEM SHALTOUT

FRUIT COLLECTION

1	ALMONDS	1	34	2 ROWS
2	ANNONA	2	66	3 ROWS
3	LOQUAT	2	44	2 ROWS
4	CAROB	1	7	
5	FIG	5	24	1 ROW
6	OPUNTIA	1	66	1 ROW
7	ZIZIPHUS Thai	2	6	
8	RAMBOTAN Thailand	1	2	
9	LICHI	1	4	
10	LONGANA	1	3	
11	CARAMBULA Thai	1	2	
12	SAPOTA	1	4	
13	GUAJVA	1	3	
15	APPLES	4	60	2 ROWS
16	PEACHES	4	40	2 ROWS
17	PLUMS	4	34	2 ROWS
18	APRICOTS	3	30	2 ROWS
19	GRAPE	1	47	1 ROW

06-Jul-91

MARYUT PROJECT

APPLE

SECTION 11/B

CULTIVAR	PLANTING DATE	NUMBER PLANTED	ROOTSTOCK	EXISTING PLANTS	PLANT MISSING	REMARKS
S.ADINA	MAR-03-90	214.00	MM106	209.00	5.00	
G.SMITH	JAN-06-91	24.00	MM106	22.00	2.00	POLINATOR
S.ADINA	JAN-06-91	42.00	Mac9	38.00	4.00	
G.SMITH	JAN-06-91	6.00	Mac9	6.00	---------	POLINATOR
		27.00	HASHABI	26.00	1.00	ROOTSTOCK
ANNA	JAN-06-91	42.00	MM106	41.00	1.00	
G.DORSET	JAN-06-91	6.00	MM106	6.00	---------	POLINATOR
ANNA	JAN-06-91	54.00	Mac9	46.00	8.00	
G.DORSET	JAN-06-91	11.00	Mac9	11.00	---------	POLINATOR
ANNA	JAN-06-91	36.00	MALUS	36.00	---------	
ORLEANS	JAN-06-91	66.00	MM106	66.00	---------	
JONATHAN	JAN-06-91	6.00	MM106	6.00	---------	POLINATOR
ORLEANS	JAN-06-91	84.00	Mac9	84.00	---------	
JONATHAN	JAN-06-91	4.00	Mac9	4.00	---------	POLINATOR
ORLEANS	JAN-06-91	18.00	MALUS	18.00	---------	
JOHNI	MAR-19-91	48.00	HASHABI	48.00	---------	
TOTAL		688.00		667.00	21.00	
				MISSING %	3.05	

CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED	ROOTSTOCK	PLANTS MISSING	% MISSING
CANINO	APR-30-90	APRICOT	51	47		5	10
YAM	APR-30-90	APRICOT	17	13	4	4	24
AVIV	APR-30-90	APRICOT	68	59	13	9	13
YAM	MAR-21-91	APRICOT	85	64	31	21	25
ORIT	MAR-21-91	APRICOT	34	28	6	---	---
RA'ANANA	MAR-21-91	APRICOT	17	16	1	---	---
TOTAL			272	227	55	39	18

MARYUT PROJECT

GRAPE

CULTIVAR	PLANTING DATE	No.of PLANT	EXISTING PLANTS	PLANTS MISSING	% MISSING
RUBBI	MAR-07-91	120	77	43	36
FLAME	MAR-07-91	112	89	23	21
THOMSON	MAR-07-91	112	47	65	58
SUPERIOR	MAR-07-91	152	147	5	3
XMAS ROSE	JUN-15-91	84	84		
TOTAL		580	444	136	23

MANGO DWARF

CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED ROOTSTOCK	PLANTS MISSING	% MISSING
TOMMI	MAY-10-91	13/1	38	37	1	3
KITH	MAY-10-91	13/1	38	35	3	8
KENT	MAY-10-91	13/1	32	29	3	9
MAYA	MAY-10-91	13/1	38	37	1	3
TOTAL			146	138	8	5

PEACHES

CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED	ROOTSTOCK	PLANTS MISSING	% MISSING
ALMOG	APR-25-90	NEMAGOURD	100	84	22	16	16
TEXAS	APR-24-90	NEMAGOURD	52	46	10	6	12
837/W	APR-25-90	NEMAGOURD	62	48	8		
835/W	APR-25-90	NEMAGOURD	25	23	11	2	8
1-GC-100	APR-25-90	NEMAGOURD	25	17	8	4	16
T.SNOW	FEB-02-91	NEMAGOURD	50	44	11	3	6
DESERT RED	FEB-02-91	NEMAGOURD	50	46	15	4	8
T.BEAUTY	FEB-02-91	NEMAGOURD	50	50	23		
T.SWEET	FEB-02-91	NEMAGOURD	36	36	5	5	14
837/W	MAR-19-91	NEMAGOURD	9	9			
829	MAR-19-91	NEMAGOURD	11	16	3	4	36
EN IRON	MAR-19-91	NEMAGOURD	20	19	1	1	5
TOTAL			490	438	117	45	9

PLUM

CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED ROOTSTOCK	PLANTS MISSING	% MISSING
SUHGOLD	MAR-18-91	MARIANA	100	87	13	13
LARODA	MAR-18-91	MARIANA	100	29	71	71
PREMIER	MAR-18-91	MARIANA	80	64	26	33
NOBIANA	MAR-18-91	MARIANA	50	36	4	8
TOTAL			330	216	114	35

ALMONDS

CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING PLANTS	ROOTSTOCK PLANTS	PLANTS MISSING	% MISSING
SONORA	MAR-20-90	NEMAGOURD	50	44	1	5	10
NON-PERIAL	MAR-20-90	NEMAGOURD	50	50			
FRITZ	MAR-20-90	LOVEL	50	39		11	22
N.P.ULTRA	MAR-20-90	LOVEL	75	65	1	9	12
N.P.ULTRA	JAN-20-91	NEMAGOURD	50	20	18	18	36
SONORA	JAN-20-91	NEMAGOURD	25	18	1	6	24
FRITZ	JAN-20-91	NEMAGOURD	75	34	22	19	28
NON PERIAL	JAN-20-91	NEMAGOURD	25	50	1	5	
UM EL FAHM	MAR-20-91	ALMOND	50	50			
TOTAL			450	370	44	73	16

PECAN

CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED	ROOTSTOCK	PLANTS MISSING	% MISSING
CHOCTAW	MAR-19-90	PECAN	51	39	2	12	24
CHEYENN	MAR-19-90	PECAN	34	23	2	9	26
MOHANK	MAR-19-90	PECAN	34	21	2	12	35
W.SCHLEY	MAR-19-90	PECAN	68	50	11	18	26
CHEROKEE	MAR-19-90	PECAN	34	21	2	13	38
WICHITA	MAR-19-90	PECAN	68	49	5	19	28
TOTAL			289	203	24	83	29

PEAR

CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED	ROOTSTOCK	PLANTS MISSING	% MISSING
SHINSEIKI	MAR-20-90	BETUFOLIA	48	40	4	4	8
HOSUE	MAR-20-90	BETUFOLIA	48	38		10	21
T.CENTURY	MAR-20-90	BETUFOLIA	48	34		14	29
KIKUISUI	MAR-20-90	BETUFOLIA	48	39		9	19
TOTAL			192	151	4	37	19

PERSIMMON

CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED	ROOTSTOCK	PLANTS MISSING	% MISSING
FUYU	MAR-20-90	LOTUS	144	83	1	59	41
HACHIYA	MAR-20-90	LOTUS	72	58	8	6	8
TOTAL			216	141	9	65	30

06-Jul-91

MARYUT PROJECT

FRUIT TRRES

AVERAGE ROOTSTOCK AND TREE TRANK DIAMETER AND AREA

		JUN 1990		JUN 1990		JUN 1991		JUN 1991	
		ROOTSOCK		TRUNK		ROOTSOCK		TRUNK	
CROP	CULTIVAR	DIAMETER	AREA	DIAMETER	AREA	DIAMETER	AREA	DIAMETER	AREA
ALMONDS	SONORA	1.57	1.93	1.51	1.79	4.94	19.18	3.99	12.51
	N.PERIAL	1.76	1.38	1.54	1.86	5.55	24.21	3.76	11.11
	FRITZ	2.34	4.30	1.94	2.95	5.05	20.04	4.52	16.05
	N.P.ULTRA	2.05	3.30	1.66	2.16	5.43	23.17	4.49	15.84
	M.DALED	1.73	2.35	1.54	1.86	4.71	17.43	4.08	13.08
PEARS	KIKUSIUE	3.22	8.14	1.56	1.91	3.47	9.46	2.30	4.15
	T.CENTURY	1.99	3.11	1.70	2.27	2.42	4.60	1.84	2.66
	HUSUE	1.75	2.40	1.22	1.16	2.81	6.20	1.72	2.32
	SHINSEIKI	1.69	2.24	1.19	1.11	2.89	6.56	1.85	2.69
PERSIMMON	FUYU	1.96	3.01	1.39	1.51	2.57	5.19	1.91	2.86
	HACHIYA	2.06	3.33	1.76	2.43	2.31	4.19	1.78	2.49

MARYUT PROJECT

BANANA - GRAND NINE

Section : 4/A-2 Planting distances: 5X3 Area: 0.75 feddan

OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO
OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO
OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO
OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO
OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO

Planting date : 7 July 1991

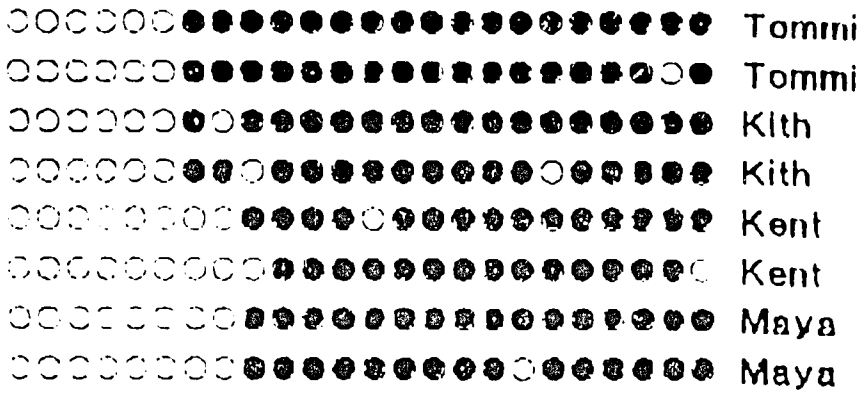
Number of plants : 275

Each circle represent a nest of two plants

MARYUT PROJECT

MANGO DWARF

ection: 4/A-1 Planting distances: 5X4 Area: 1 feddan



CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED ROOTSTOCK	PLANTS MISSING	% MISSING
TOMMI	MAY-10-91	13/1	38	37	1	3
KITH	MAY-10-91	13/1	38	35	3	8
KENT	MAY-10-91	13/1	32	29	3	9
MAYA	MAY-10-91	13/1	38	37	1	3
TOTAL			146	138	8	5

Existing ●

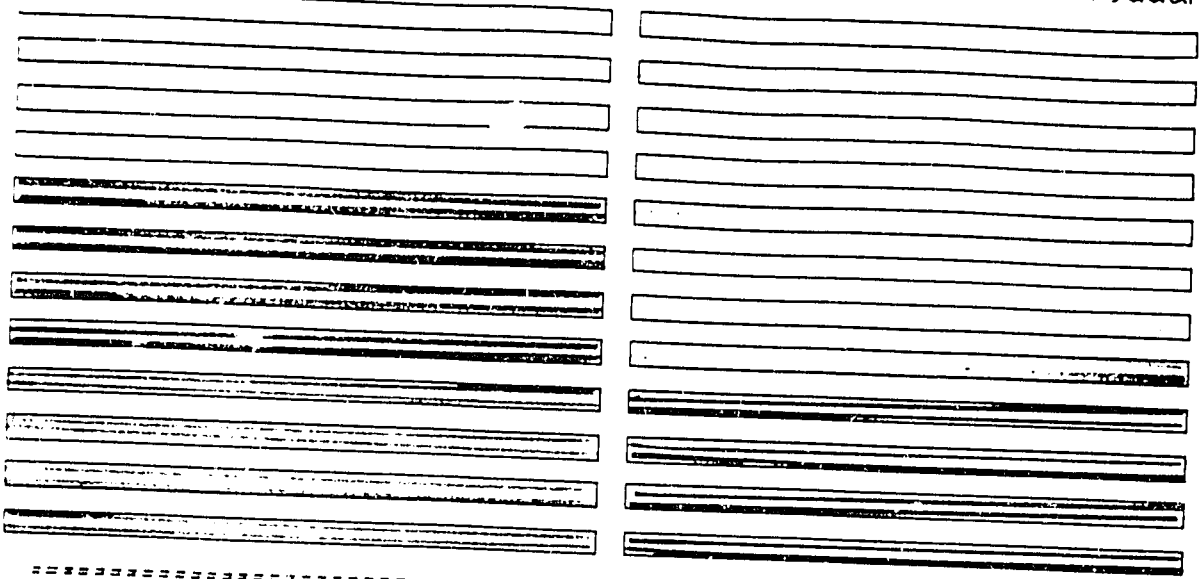
Missing ○

Rootstock ◉

MARYUT PROJECT

GRAPE

Section: 4/A-3 Planting distances: 3.5X1.25 Area: 1 feddan



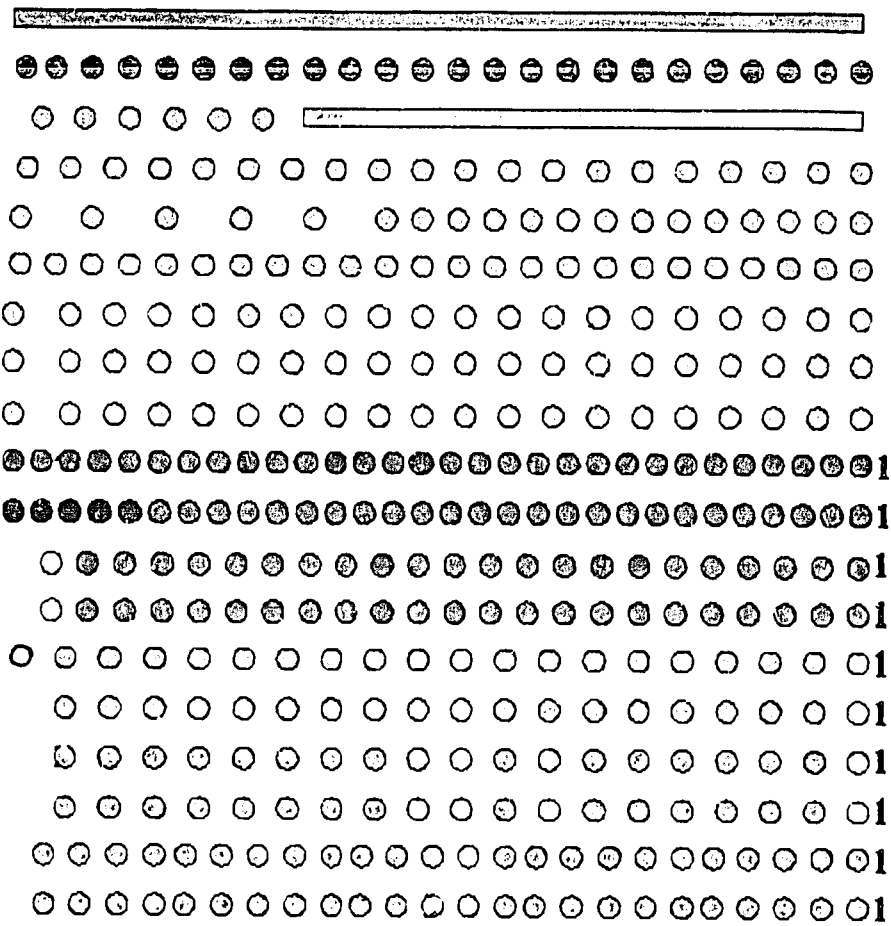
CULTIVAR	PLANTING DATE	No.of PLANT	EXISTING PLANTS	PLANTS MISSING	% MISSING
RUBBI	MAR-07-91	120	77	43	36
FLAME	MAR-07-91	112	89	23	21
THOMSON	MAR-07-91	112	47	65	58
SUPERIOR	MAR-07-91	152	147	5	3
XMAS ROSE	JUN-15-91	84	84		
TOTAL		580	444	136	23

MARYUT PROJECT

FRUIT COLLECTION

Section: 5/A

Area: 2.5 feddan



Rootstock ○

Missing ○

CROP		PLANTS
ALMONDS	2 ROWS	34
APRICOTS	2 ROWS	30
PLUMS	2 ROWS	34
APPLES	2 ROWS	60
LOQUAT	2 ROWS	50
ANNONA	3 ROWS	66
OPUNTIA	1 ROW	66
FIG	1 ROW	24
GRAPE	1 ROW	47
VARIETIES	2 ROWS	31
TOTAL PLANTS		442

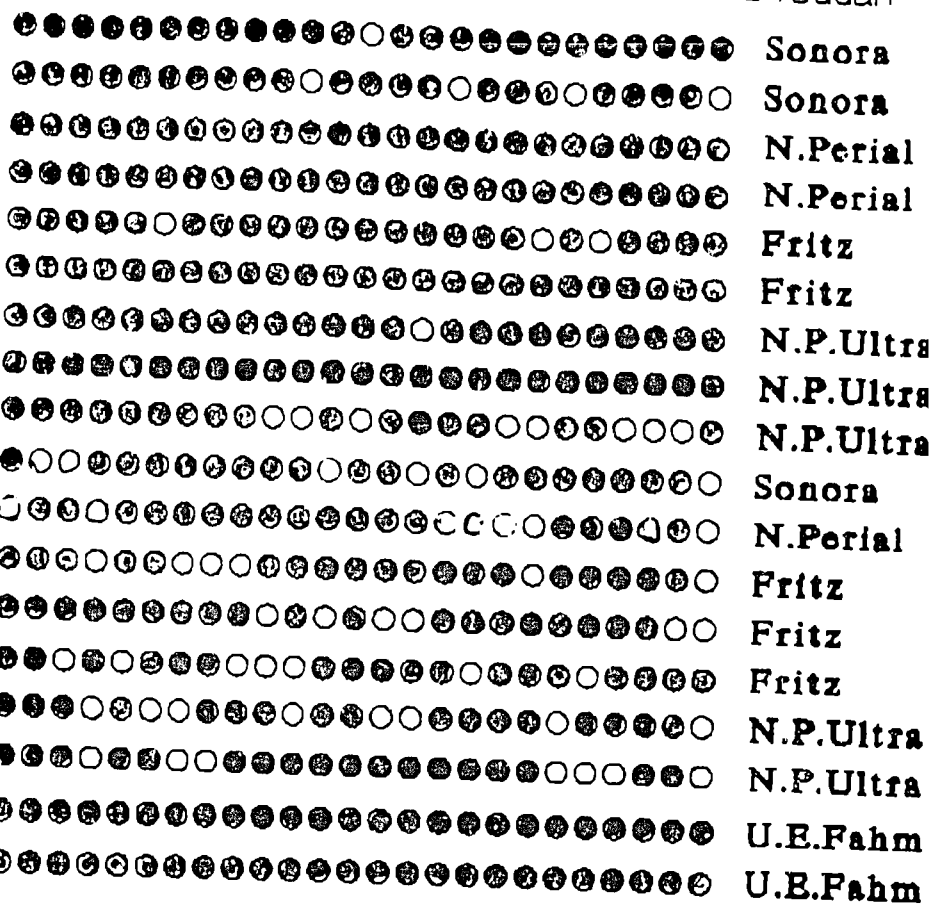
LIST OF CROP VARIETIES

CROP	NO. OF PLANTS
OPUNTIA	70
ZIZYPHUS	6
RAMBOTAN	2
LITCHI	4
LONGANA	3
CARAMBOLA	2
GUAJAVA	3
SAPOTA	4
CAROB	7
TOTAL	101

MARYUT PROJECT

ALMONDS

Section: 5/B Planting distances: 5X4 Area: 2.5 feddan



CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED	ROOTSTOCK	PLANTS MISSING	% MISSING
SONORA	MAR-20-90	NEMAGOURD	50	44	1	5	10
NON-PERIAL	MAR-20-90	NEMAGOURD	50	50	----------	----------	----------
FRITZ	MAR-20-90	LOVEL	50	39	----------	11	22
N.P.ULTRA	MAR-20-90	LOVEL	75	65	1	9	12
N.P.ULTRA	JAN-20-91	NEMAGOURD	50	20	18	15	30
SONORA	JAN-20-91	NEMAGOURD	25	18	1	6	24
FRITZ	JAN-20-91	NEMAGOURD	75	34	22	19	28
NON PERIAL	JAN-20-91	NEMAGOURD	25	50	1	5	----------
UM EL FAHM	MAR-20-91	ALMOND	50	50	----------	----------	----------
TOTAL			450	370	44	70	16

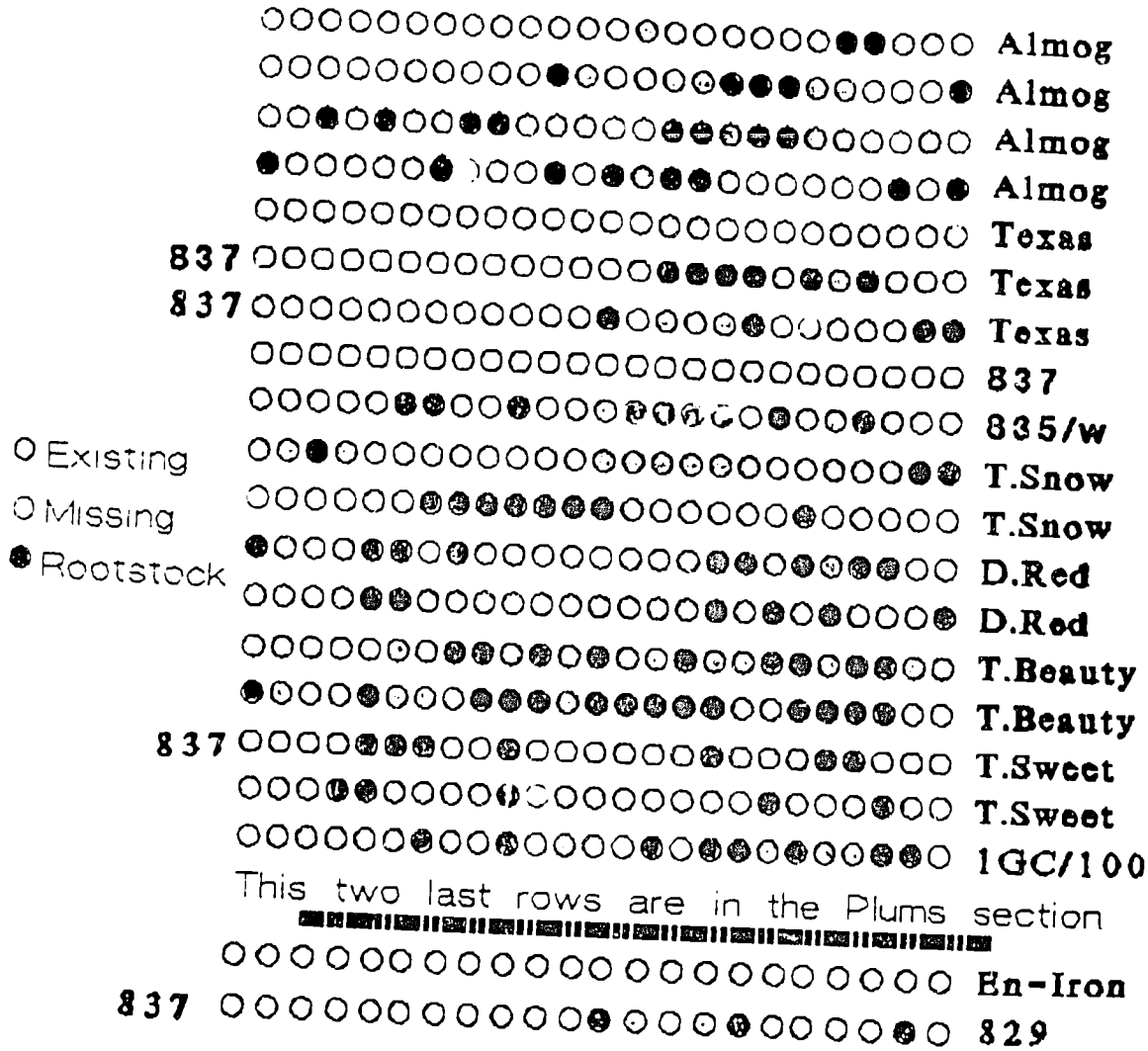
Existing ● Rootstock ●

Missing ○ Polinator ●

MARYUT PROJECT

PEACHES

Section: 4/B Planting distances: 5X4 Area: 2.75 feddan

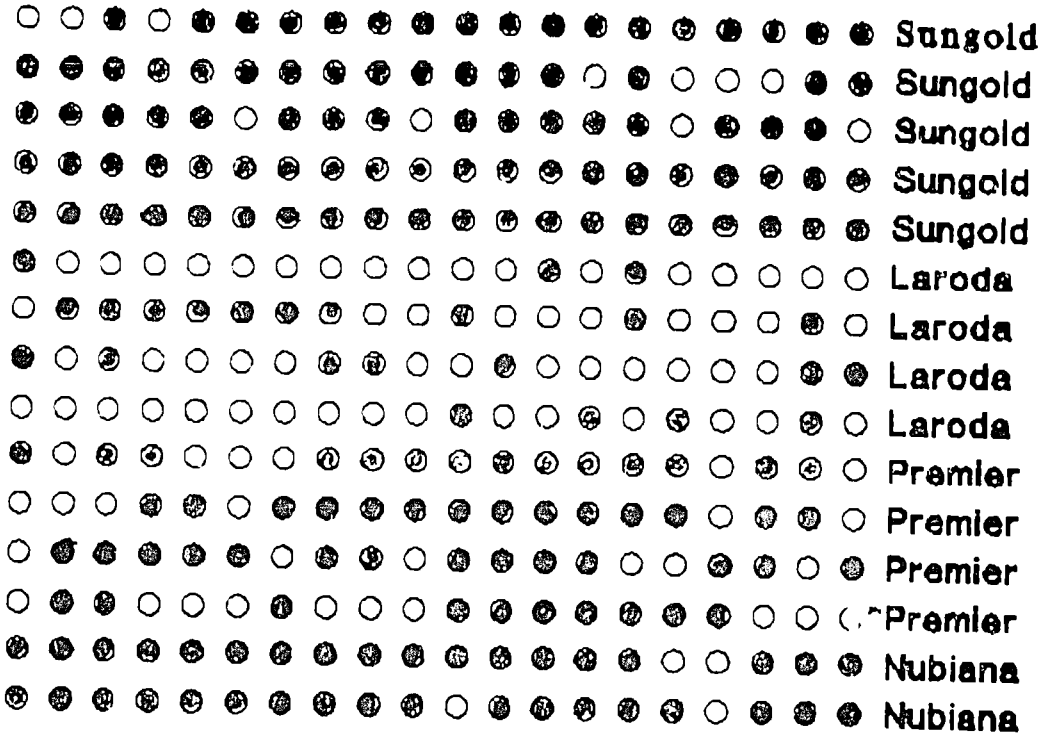


CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED	ROOTSTOCK	PLANTS MISSING	% MISSING
ALMOG	APR-25-90	NEMAGOURD	100	84	22	16	16
TEXAS	APR-24-90	NEMAGOURD	52	46	10	6	12
837/W	APR-25-90	NEMAGOURD	62	48	8		
835/W	APR-25-90	NEMAGOURD	25	23	11	2	8
1-GC-100	APR-25-90	NEMAGOURD	25	17	8	4	16
T.SNOW	FEB-02-91	NEMAGOURD	50	44	11	3	6
DESERT RED	FEB-02-91	NEMAGOURD	50	46	15	4	8
T.BEAUTY	FEB-02-91	NEMAGOURD	50	50	23		
T.SWEET	FEB-02-91	NEMAGOURD	36	36	5	5	14
837/W	MAR-19-91	NEMAGOURD	9	9			
829	MAR-19-91	NEMAGOURD	11	16	3	4	36
EN IRON	MAR-19-91	NEMAGOURD	20	19	1	1	5
TOTAL			490	438	117	45	9

MARYUT PROJECT

PLUMS

Section: 11/A Planting distances: 5X5 Area: 2.25 feddan



CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED ROOTSTOCK	PLANTS MISSING	% MISSING
SUNGOLD	MAR-18-91	MARIANA	100	87	13	13
LARODA	MAR-18-91	MARIANA	100	29	71	71
PREMIER	MAR-18-91	MARIANA	80	54	26	33
NOBIANA	MAR-18-91	MARIANA	50	46	4	8
TOTAL			330	216	114	35

Existing ●

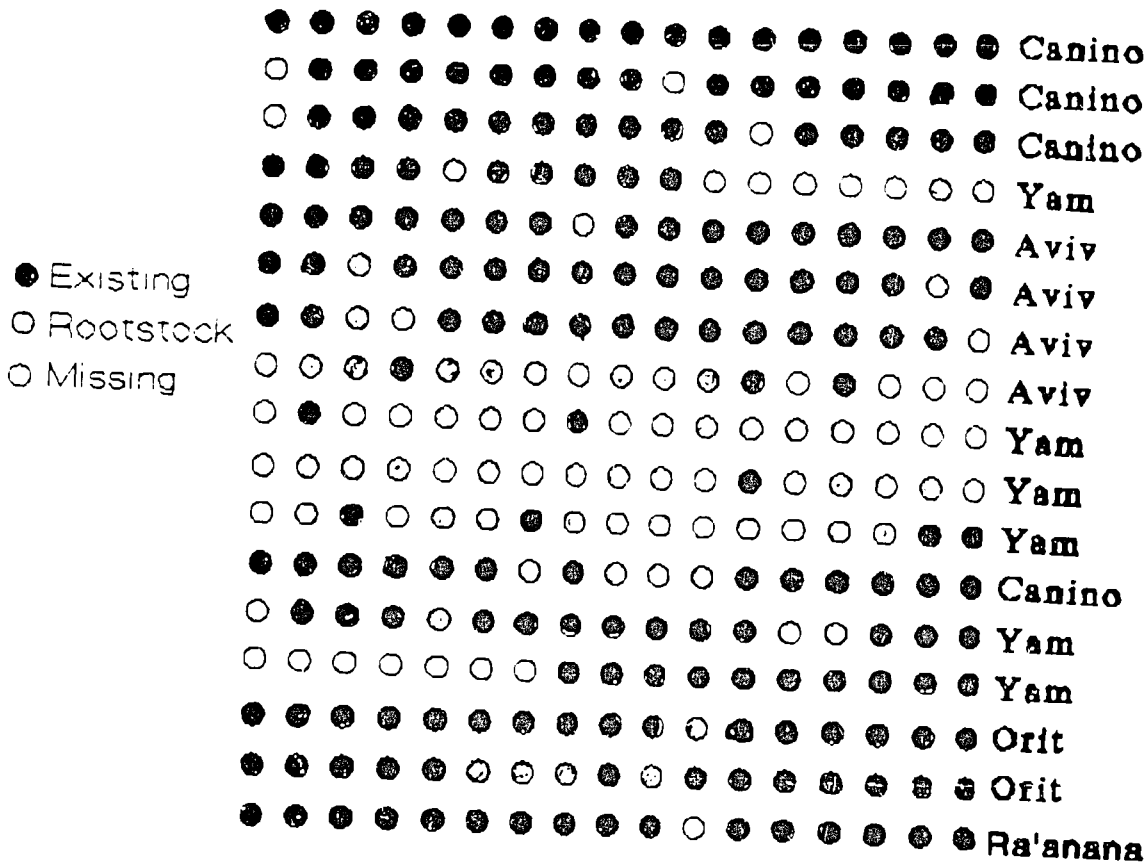
Missing ○

Rootstock ○

MARYUT PROJECT

APRICOTS

Section: 10/A–Planting distances: 6X6 – Area: 2.5 feddan

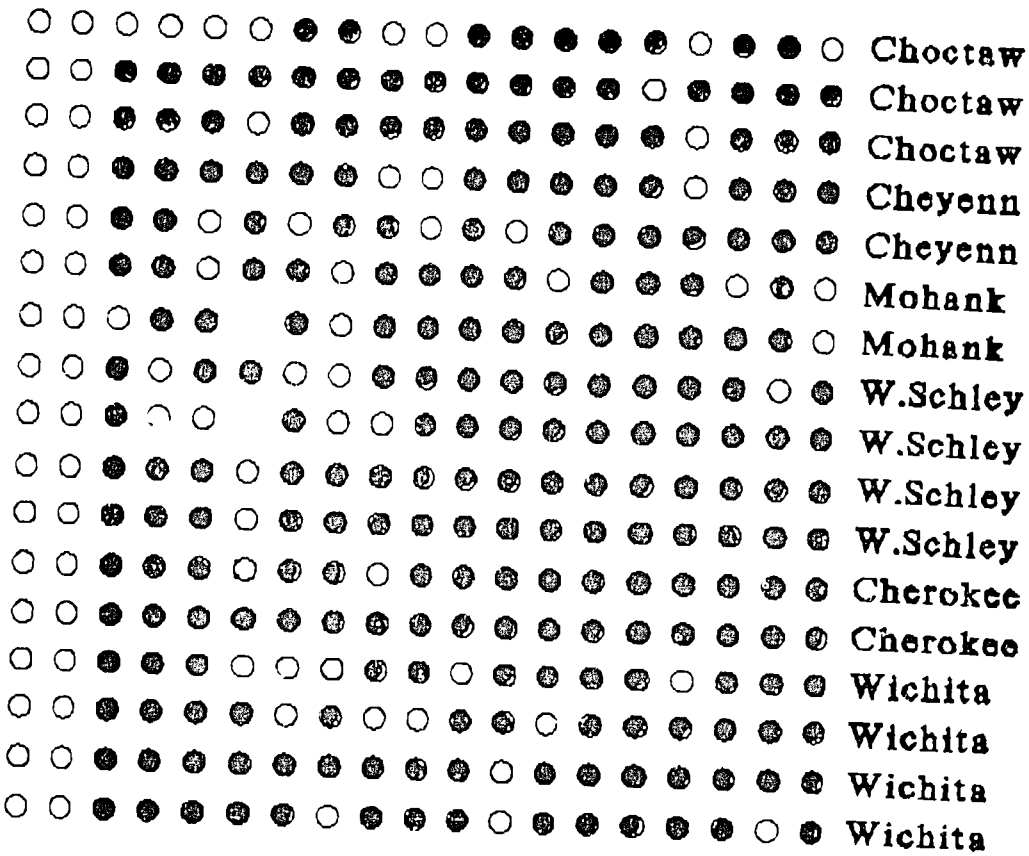


CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED	ROOTSTOCK	PLANTS MISSING	% MISSING
CANINO	APR-30-90	APRICOT	51	47		5	10
YAM	APR-30-90	APRICOT	17	13	4	4	24
AV'IV	APR-30-90	APRICOT	68	59	13	9	13
YAM	MAR-21-91	APRICOT	85	64	31	21	25
ORIT	MAR-21-91	APRICOT	34	28	6		
RA'ANANA	MAR-21-91	APRICOT	17	16	1		
TOTAL			272	227	55	39	18

MARYUT PROJECT

PECAN

Section: 10/B Planting distances: 6X6 Area: 2.5 feddan



CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED	ROOTSTOCK	PLANTS MISSING	% MISSING
CHOCTAW	MAR-19-90	PECAN	51	39	2	12	24
CHEYENN	MAR-19-90	PECAN	34	23	2	9	26
MOHANK	MAR-19-90	PECAN	34	21	2	12	35
W.SCHLEY	MAR-19-90	PECAN	68	50	11	18	26
CHEROKEE	MAR-19-90	PECAN	34	21	2	13	38
WICHITA	MAR-19-90	PECAN	68	49	5	19	28
TOTAL			289	203	24	83	29

Existing ●

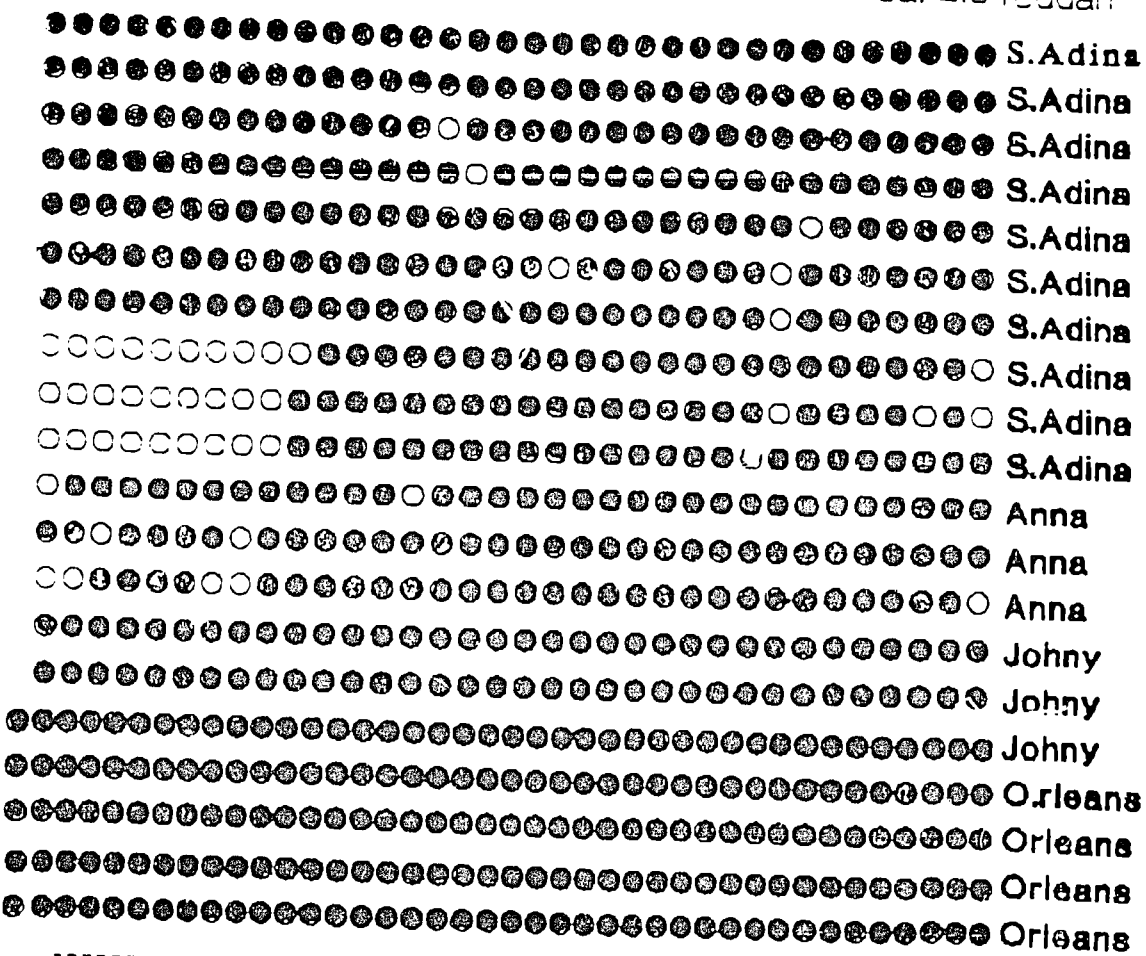
Rootstock ●

Missing ○

MARYUT PROJECT

APPLES

Section: 11/B Planting distances: 4.5X3.5 Area: 2.5 feddan



CULTIVAR	PLANTING DATE	NUMBER PLANTED	ROOTSTOCK	EXISTING PLANTS	PLANT MISSING	REMARKS
S.ADINA	MAR-03-90	214.00	MM106	209.00	5.00	
G.SMITH	JAN-06-91	24.00	MM106	22.00	2.00	POLINATOR
S.ADINA	JAN-06-91	42.00	Mac9	38.00	4.00	
G.SMITH	JAN-06-91	6.00	Mac9	6.00	---------	POLINATOR
		27.00	HASHABI	26.00	1.00	ROOTSTOCK
ANNA	JAN-06-91	42.00	MM106	41.00	1.00	
G.DORSET	JAN-06-91	6.00	MM106	6.00	---------	POLINATOR
ANNA	JAN-06-91	54.00	Mac9	46.00	8.00	
G.DORSET	JAN-06-91	11.00	Mac9	11.00	---------	POLINATOR
ANNA	JAN-06-91	36.00	MALUS	36.00	---------	
ORLEANS	JAN-06-91	66.00	MM106	66.00	---------	
JONATHAN	JAN-06-91	6.00	MM106	6.00	---------	POLINATOR
ORLEANS	JAN-06-91	84.00	Mac9	84.00	---------	
JONATHAN	JAN-06-91	4.00	Mac9	4.00	---------	POLINATOR
ORLEANS	JAN-06-91	18.00	MALUS	18.00	---------	
JOHNI	MAR-19-91	48.00	HASHABI	48.00	---------	
TOTAL		688.00		667.00	21.00	
				MISSING %	3.05	

Existing
Rootstock
Polinator
Missing

MARYUT PROJECT

PERSIMMON

Section: 9/B-2 Planting distances: 4X4 Area: 1 feddan

CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED	ROOTSTOCK	PLANTS MISSING	% MISSING
FUYU	MAR-20-90	LOTUS	144	84		60	42
HACHIYA	MAR-20-90	LOTUS	72	66	8	6	8
TOTAL ALMONDS			216	150	9	66	30

Existing ○

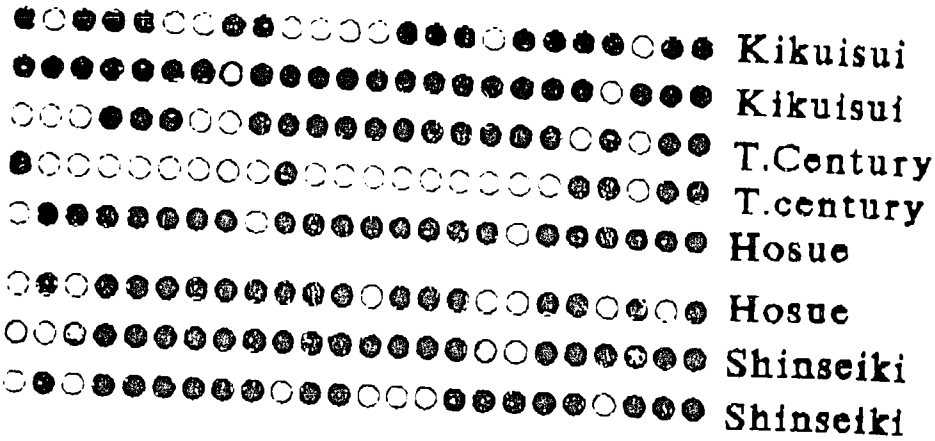
Missing ○

Rootstock ●

MARYUT PROJECT

PEAR

Section: 9/B-1 Planting distances: 4X4 Area: 1 feddan



CULTIVAR	PLANTING DATE	ROOTSTOCK	No.of PLANT	EXISTING BUDDED	ROOTSTOCK	PLANTS MISSING	% MISSING
SHINSEIKI	MAR-20-90	BETUFOLIA	48	40	4	4	8
HOSUE	MAR-20-90	BETUFOLIA	48	38		10	21
T.CENTURY	MAR-20-90	BETUFOLIA	48	34		14	29
KIKUISUI	MAR-20-90	BETUFOLIA	48	39		9	19
TOTAL			192	151	4	37	19

Existing ●

Missing ○

Rootstock ○

06-Jul-91

FRUIT TREES NURSERY

CROP	AREA Sq.m	NUMBER OF PLANTS	CULTIVAR
PEACHES	80	2800	NEMMARED
	20	100	NEMMAGURD
APPLE	2000	4000	MM/106
	100	800	HASHABI
	30	400	Mac 9
PLUMS	40	1700	(Badded)
BANANA	P.HOUSE	500	GRAND NINE

10-Jul-91

ORNAMENTALS

LANDSCAPE - PLOT OF LANDSCAPE TREES HAS PLANTED IN REPLICATION, IN EACH REP. 9 TREES WERE PLANTED

VARIETIES : EUCALYPTUS TORWOOD, EUCALYPTUS TORQUATA CERECIDIUM FLORIDIUM AND PROSOPIS JOLIFLORA, (SEE MAP

FLOWERING AND DECORATIVE BRANCHES - PLANTS WERE PLANTED IN ROWS.

FLOWERING BRANCHES - EUCALIPTUS TORQUATA AND EUCALI
DECORATIVE BRANCHES - MELALEUCA HUEGELI,ELIPTICA, MESOPHILA, COCCINEA, DISOMIFOLIA AND LANCEOLATA, (SEE MAP)

FLORICULTURE PRODUCTION - ONE SMALL HOUSE PRODUCED 10,000 ROSES FLOWERS.

ANNUAL FLOWERS - SMALL PLOT OF THREE ANNUALS WERE PLANTED FOR OBSARVATION.

ANEMMON, RANUNCULUS AND ACHILEA.

ANEMMON - GREW GOOD LOOKS PROMMISING.

RANUNCULUS - THE SAME AS ANEMMON ADOPTED VERY WELL

ACHILEA - GREW VERY SLOW AND UN UNIFORM.

TURF - FOUR VARIETIES OF TURF WERE PLANTED BY SOWING AND SEEDLINGS

KUKUYU - VERY STRONG STAYS GREEN ALL YEAR. PLANTED 15/8/90

PASPALUM PLITATULUM - RESENTLY PLANTED. PLANTED 25/6/91

PASPALUM PLICATULUM - RESENTLY PLANTED. PLANTED 25/6/91
bigelnatum
MIX VARIETIES - LOOKS GOOD AND PROMMISING.. PLANTED 14/4/91

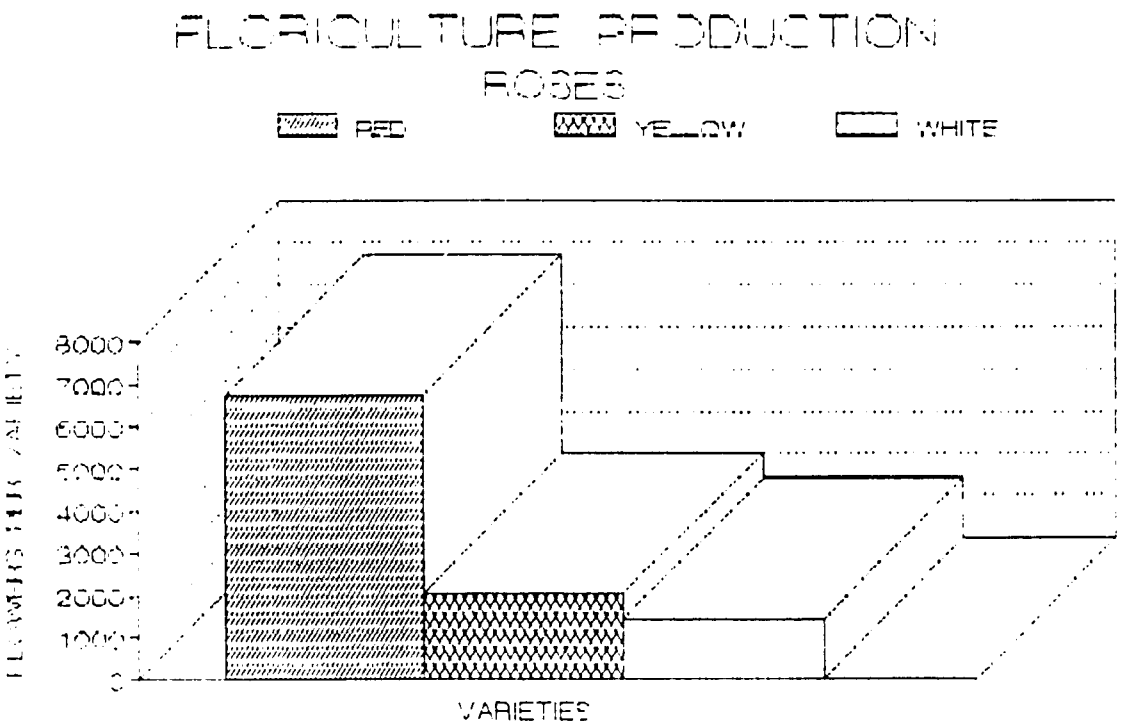
PROPAGATION - TWO MOTHER PLANTS HOUSES HAS PLANTED ONE HOUSE WITH FICUS HAWAII (100 PLANTS), FICUS BENJAMINA 302 PLANTS AND SINGONIUM (150 PLANTS) AND POTUS (98 PLANTS), PLANTING DATE 18/4/90

THE SECOND HOUSE PLANTED CROTONS ON 25/5/91, FOUR SAND BEDS TOTAL PLANTS OF 156 CROTONS.

ORNAMENTAL

ROSES HARVEST

DATE	RED	YELLOW	WHITE	TOTAL	MONTHLY TOTAL
DEC-11	175			175	175
JAN-01	50			50	
JAN-13	100			100	
JAN-27	70			70	220
FEB-12	75			75	
FEB-20	90			90	
FEB-28	100			100	265
MAR-10	85	22	3	110	
MAR-14	200			200	
MAR-20	150	75	25	250	
MAR-26	190	175	35	400	
MAR-30	235	190	50	475	1435
APR-03	150	50	50	250	
APR-08	240	50	110	400	
APR-14	225	50	75	350	
APR-18	100	50	70	220	
APR-23	300	100	125	525	
APR-29	425	100	25	550	2295
MAY-04	525	125	25	675	
MAY-08	500	125	75	700	
MAY-12	325	125	100	550	
MAY-16	300	100	75	475	
MAY-21	200	50	50	300	
MAY-27	225	40	60	325	3025
JUN-02	425	200	100	725	
JUN-06	400	150	100	650	
JUN-10	325	75	100	500	
JUN-16	400	100	100	600	
JUN-20	150	50	75	275	2750
TOTAL	6735	2002	1428	10165	10165
				10165	10165
NO.PLNTS	234	93	94		
AV.FLOWER PER PLANT	29	22	15		


FLORICULTURE PRODUCTION
ROSES
RED
YELLOW
WHITE
8000
7000
6000
5000
4000
3000
2000
1000
0
VARIETIES

LIST OF ORNAMENTAL SEEDLINGS IMPORTED ON THE 13 MARCH 1991

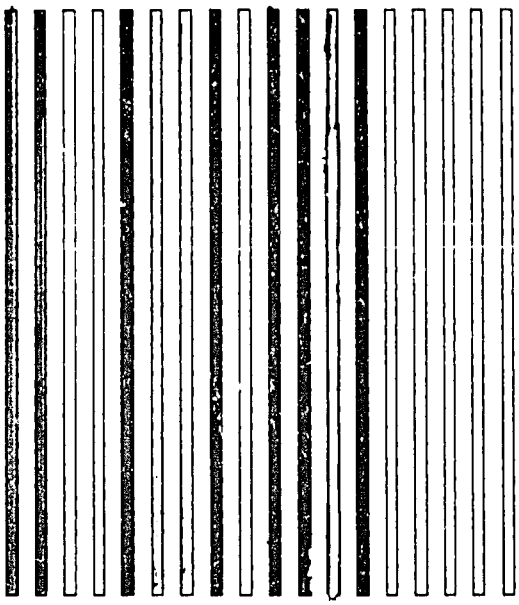
SPECIES	QUANTITY
FLOWERING BRANCHES	
EUCALIPTUS LEUCOXYLON	100
-"- TORQUATA	100
-"- WOODWARDI	100
-"- MACROCARPA	70
-"- NUTANS	100
TOTAL	470
DECORATIVE BRANCHES	
MELALEUCA DIOSMIFOLIA	100
-"- LANCEOLATA	250
-"- COCCINEA	250
-"- NESOPHILA	150
-"- ELIPTICA	100
-"- HUEGELI	100
TOTAL	950
PROSTRATE PLANTS	
GREVILEA OLEOIDES	100
MYOPORUM DEBILE	100
MYOPORUM ELLIPTICUM	50
MYOPORUM PARVIOLIUM	100
SCAVOLA CRASSIFOLIA	100
TOTAL	450
TREES	
EUCALIPTUS TORQUATA	50
EUCALIPTUS TORWOOD	50
PROSOPIS JULIFLORA	50
CRECIDIUM FLORIDUM	35
TOTAL	185
TALL SHRUBS	
RHUS INTEGRIFOLIA	50
MELALEUCA NESOPHILA	50
CALLISTEMON HARKNESS	50
ACASIA SCLEOSPERMA	50
EREMOPHILA GLABRA	50
EUPHORBIA COTINIFOLIA	50
TOTAL	300
SHRUBS	
ERMOPHILA MACULATA	50
COPROSMA REPENS	70
WESTRINGIA FRUTICOM	50
RUELLIA SQUAROSA	70
TOTAL	240
TOTAL LIST OF SEEDLINGS	2.555

MARYUT PROJECT

ORNAMENTAL

..Flowering & Decorative branches

Section :2/A Planting date : 1.6.91



Planting distances

Eucalyptus 2X2m.
Melaleuca 2X1m.

Flowering branches

- Eucalyptus torquata 70
- Eucalyptus woodwardi 70

Decorative branches

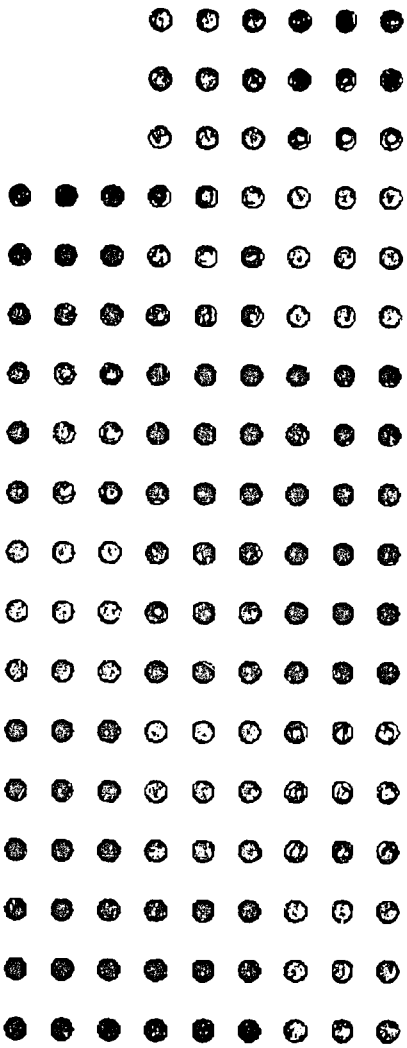
- Melaleuca huegeli 70
- Melaleuca eliptica 70
- Melaleuca nesophila 140
- Melaleuca coccinea 210
- Melaleuca disomifolia. 70
- Melaleuca lanceolata 70

MARYUT PROJECT

LANDSCAPE TREES

Section : 3

Planting date : 13.6.91



Eucalyptus torwood

Eucalyptus torquata

Cerecidium floridium

Prosopis juliflora

VEGETABLE CROPS

PROPOSED PLAN 1991 - 1992

CUCUMBERS

season and double cropping

1. Two planting dates. Mid September. and End of January

   a. Mid September followed by Tomatoes planted in end of January.

   b. End of Januaru proceed by Mid September.

   c. Low tunnels - one plnting season 15-9-91 proceed by sweet corn on end of January.

2. Managment and Technology.

   a. Single vs. Double row.

   b. Long vs. Short houses.

   c. Fertigation regime (useing tensiometers).

   d. Mulch. black. clear and no mulch.

3. Varieties.

   a. Variety trail.

   b. Intoduction of three new cultivars : 429. 425 and 10

   c. Possible varieties in COMMERCIAL HOUSES : Picobello. Cordito. 222. 436. Kesem and 428.

TOMATOES

1. Two planting dates in plastic houses and three planting dates in open field and under low tunnels.

   a. Plastic houses - begining of August followed by Cucumber planted in begining of February + two houses will continue.

Begining of September will continue untill may.

Begining of February planted after Cucumbers.

b. Open Field - begining of August followed by Cantaloupe and watermelon planted in January.

Begining of October followed by Sweet Corn planted in March.

Begining of November followed by Sweet Corn planted in April.

2. Managment and Technology.

a. Sand culture.

b. Fertigation regime.

c. Manure experiments.

d. Double vs. Single rows.

e. Long vs. Short houses.

f. Side ventilation.

3. Varieties.

a. Variety trail.

b. Introduction and observation of new cultivars : FA-191, FA-192 and V-22

c. Possible cultivars for COMMERCIAL Houses : Carmello, FA-144 FA-146, BR-160 and BR-135.

MELONS

1. Plastic houses - five planting dates : begining and mid of October, begining and mid of November, begining of December.

Low Tunnels - three planting dates : November , January and February.

2. Managment and Technology.

a. The effect of the planting date on rippening and yield.

b. Two branches vs. one.

c. Fertigation regime.

d. Effect of density on the yield both p.houses and open field.

3. Varieties.

a. varital trail.

b. Commercial section two cultivars : Galia and Arava.

PEPPER

1. Two planting dates, early August and mid March.

2. Managment and Technology.

a. trailed branches vs. no trail.

b. use of shading vs. no shad.

c. one row vs. two rows.

EGGPLANTS

1. Two planting seasons, early August and early March.

a. Early August in plastic houses and open field.

b. Early march in open field.

2. Managment and Technology.

a. Fertigation regim in open field.

b. Growing methodes in plast houses.

3. Varieties.

a. Plastic houses will be planted only one cultivar.

b. Open field varital trail.

SWEET CORN

1. Varietal trails.

2. Three planting dates will be planted with three cultivars in February, April and Jun.

MINOR CROPS

1. Small section of small crops will be planted for an observation.

   a. Artichock.

   b. Lettuce.

   c. Watermelons.

07-Jul-91

MARYUT PROJECT

VEGETABLE PLAN FOR 1991/92

WINTER SEASON

CROP	TYPE	PLANTING DATE	SECTION	AREA SIZE IN Sq.m	NO.OF PLANTS	PROCEED BY CROP	PLANTING DATE
CUCUMBER	P.HOUSE	SEP-01-91	L-1	520	1100	TOMATO	JAN-20-92
	P.HOUSE	SEP-01-91	S-1	260	550	TOMATO	JAN-20-92
	P.HOUSE	SEP-01-91	L-5	520	1100	TOMATO	JAN-20-92
	P.HOUSE	SEP-01-91	S-5	260	550	TOMATO	JAN-20-92
	P.HOUSE	SEP-01-91	L-6	520	1100	TOMATO	JAN-20-92
	P.HOUSE	SEP-01-91	S-6	260	550	TOMATO	JAN-20-92
	P.HOUSE	SEP-01-91	L-7	520	1100	TOMATO	JAN-20-92
	P.HOUSE	SEP-01-91	S-7	260	550	TOMATO	JAN-20-92
	P.HOUSE	SEP-01-91	L-8	520	1100	TOMATO	JAN-20-92
	P.HOUSE	SEP-01-91	S-8	260	550	TOMATO	JAN-20-92
	P.HOUSE	SEP-01-91	L-9	520	1100	TOMATO	JAN-20-92
	P.HOUSE	SEP-01-91	S-9	260	550	TOMATO	JAN-20-92
	O.FIELD	SEP-15-91	9/A-1	1000	2000	S.CORN	JAN-25-92
TOTAL				5680	11900		
TOMATO	P.HOUSE	AUG-01-91	L-2	520	1100	CUCUMBER	FEB-01-92
	P.HOUSE	AUG-01-91	S-2	260	550	CUCUMBER	FEB-01-92
	P.HOUSE	AUG-01-91	M-1	450	900	CONTINUE	
	P.HOUSE	AUG-01-91	M-2	450	900	CONTINUE	
	P.HOUSE	AUG-01-91	M-3	450	900	CUCUMBER	FEB-01-92
	P.HOUSE	AUG-01-91	M-4	450	900	CUCUMBER	FEB-01-92
	P.HOUSE	SEP-01-91	L-15	520	1100	CONTINUE	
	P.HOUSE	SEP-01-91	S-15	260	550	CONTINUE	
	P.HOUSE	SEP-01-91	L-16	520	1100	CONTINUE	
	P.HOUSE	SEP-01-91	S-16	260	550	CONTINUE	
	P.HOUSE	AUG-01-91	L-14	520	3000	CONTINUE	
	P.HOUSE	AUG-01-91	S-14	260	1500	CONTINUE	
	O.FIELD	AUG-01-91	7/A-1	1000	1000	MELON	JAN-20-92
	O.FIELD	OCT-01-91	7/B-2	1000	1000	S.CORN	MAR-30-92
	O.FIELD	NOV-01-91	8/A-3	1500	1500	S.CORN	APR-30-92
	O.FIELD	NOV-01-91	8/A-6	1500	1500	S.CORN	APR-30-92
	O.FIELD	AUG-01-91	8/B-1	1500	1500	W.MELON	JAN-25-92
	O.FIELD	AUG-01-91	8/B-4	1500	1500	W.MELON	JAN-25-92
	O.FIELD	EXIST	8/A-1	1500	1500	SQUASH	DEC-01-91
	O.FIELD	EXIST	8/A-4	1500	1500	SQUASH	DEC-01-91
TOTAL				15920	24050		

PEPPER	P.HOUSE	AUG-01-91	L-3	520	1600	MELON	FEB-01-92
	P.HOUSE	AUG-01-91	S-3	260	800	MELON	FEB-01-92
	P.HOUSE	AUG-01-91	M-5	450	1500	CUCUMBER	FEB-01-92
	P.HOUSE	AUG-01-91	M-6	450	1500	CUCUMBER	FEB-01-92
	P.HOUSE	AUG-01-91	M-7	450	1500	CUCUMBER	FEB-01-92
	P.HOUSE	AUG-01-91	M-8	450	1500	CUCUMBER	FEB-01-92
	O.FIELD	AUG-01-91	8/B-2	1500	4000	MELON	JAN-25-92
	O.FIELD	AUG-01-91	8/B-5	1500	4000	MELON	JAN-25-92
	O.FIELD	EXIST	7/B-1	1500	3000	MELON	DEC-15-91
TOTAL				7080	19400		
EGGPLANTS	P.HOUSE	AUG-01-91	L-4	520	800	SQUASH	FEB-01-92
	P.HOUSE	AUG-01-91	S-4	260	400	SQUASH	FEB-01-92
	O.FIELD	AUG-01-91	7/A-2	1000	1000	W.MALON	JAN-25-92
	O.FIELD	AUG-01-91	8/B-3	1500	1500	MELON	JAN-25-92
	O.FIELD	AUG-01-91	8/B-6	1500	1500	MELON	JAN-25-92
TOTAL				4780	5200		
MELON	P.HOUSE	OCT-15-91	L-10	520	1500	PEPPER	MAR-01-92
	P.HOUSE	OCT-15-91	S-10	260	750	PEPPER	MAR-01-92
	P.HOUSE	NOV-01-91	L-11	520	1500	PEPPER	MAR-01-92
	P.HOUSE	NOV-01-91	S-11	260	750	PEPPER	MAR-01-92
	P.HOUSE	NOV-15-91	L-12	520	1500	CUCUMBER	APR-01-92
	P.HOUSE	NOV-15-91	S-12	260	750	CUCUMBER	APR-01-92
	P.HOUSE	DEC-01-91	L-13	520	1500	CUCUMBER	APR-01-92
	P.HOUSE	DEC-01-91	S-13	260	750	CUCUMBER	APR-01-92
	O.FIELD	DEC-15-91	7/B-3	1000	2000	SQUASH	APR-15-92
	O.FIELD	DEC-01-92	8/A-2	1500	3000	TOMATO	APR-01-92
	O.FIELD	DEC-01-92	8/A-5	1500	3000	TOMATO	APR-01-92
TOTAL				4120	11000		
LETTUCE		OCT-15-91	9/A-2	1000	5000	W.MELON	FEB-01-92
		OCT-15-91	9/A-3	1000	5000	W.MELON	FEB-15-92
TOTAL				2000	10000		
ARTICHOCK	O.FIELD	JUL-01-91	7/A-3	1000	500	MULTI SEASON	

07-Jul-91

MARYUT PROJECT

VEGETABLE PLAN FOR 1991/92

SPRING SEASON

CROP	TYPE	PLANTING DATE	SECTION	AREA SIZE IN Sq.m	NO.OF PLANTS
TOMATO	P.HOUSE	JAN-20-92	L-1	520	1100
	P.HOUSE	JAN-20-92	S-1	260	550
	P.HOUSE	JAN-20-92	L-5	520	1100
	P.HOUSE	JAN-20-92	S-5	260	550
	P.HOUSE	JAN-20-92	L-6	520	1100
	P.HOUSE	JAN-20-92	S-6	260	550
	P.HOUSE	JAN-20-92	L-7	520	1100
	P.HOUSE	JAN-20-92	S-7	260	550
	P.HOUSE	JAN-20-92	L-8	520	1100
	P.HOUSE	JAN-20-92	S-8	260	550
	P.HOUSE	JAN-20-92	L-9	520	1100
	P.HOUSE	JAN-20-92	S-9	260	550
	P.HOUSE	AUG-01-91	M-1	450	900
	P.HOUSE	AUG-01-91	M-2	450	900
	P.HOUSE	SEP-01-91	L-15	520	1100
	P.HOUSE	SEP-01-91	S-15	260	550
	P.HOUSE	SEP-01-91	L-16	520	1100
	P.HOUSE	SEP-01-91	S-16	260	550
	P.HOUSE	AUG-01-91	L-14	520	3000
	P.HOUSE	AUG-01-91	S-14	260	1500
TOTAL				7920	19500
CUCUMBER	P.HOUSE	FEB-01-92	L-2	520	1100
	P.HOUSE	FEB-01-92	S-2	260	550
	P.HOUSE	FEB-01-92	M-3	450	900
	P.HOUSE	FEB-01-92	M-4	450	900
	P.HOUSE	FEB-01-92	M-5	450	1500
	P.HOUSE	FEB-01-92	M-6	450	1500
	P.HOUSE	FEB-01-92	M-7	450	1500
	P.HOUSE	FEB-01-92	M-8	450	1500
	P.HOUSE	APR-01-92	L-12	520	1500
	P.HOUSE	APR-01-92	S-12	260	750
	P.HOUSE	APR-01-92	L-13	520	1500
	P.HOUSE	APR-01-92	S-13	260	750
TOTAL				5040	13950

MELON	O.FIELD	JAN-20-92	7/A-1	1000	1000
	P.HOUSE	FEB-01-92	L-3	520	1600
	P.HOUSE	FEB-01-92	S-3	260	800
	O.FIELD	JAN-25-92	8/B-2	1500	4000
	O.FIELD	JAN-25-92	8/B-5	1500	4000
	O.FIELD	DEC-15-91	7/B-1	1500	3000
	O.FIELD	JAN-25-92	8/B-3	1500	1500
	O.FIELD	JAN-25-92	8/B-6	1500	1500
TOTAL				9280	17400
PEPPER	P.HOUSE	MAR-01-92	L-10	520	1500
	P.HOUSE	MAR-01-92	S-10	260	750
	P.HOUSE	MAR-01-92	L-11	520	1500
	P.HOUSE	MAR-01-92	S-11	260	750
TOTAL				1560	4500
SQUASH	P.HOUSE	FEB-01-92	L-4	520	800
	P.HOUSE	FEB-01-92	S-4	260	400
	O.FIELD	APR-01-92	7/B-3	1000	3000
	O.FIELD	DEC-01-91	8/A-1	1500	1500
	O.FIELD	DEC-01-91	8/A-4	1500	1500
TOTAL				4780	7200
W.MALON	O.FIELD	JAN-25-92	8/B-1	1500	1500
	O.FIELD	JAN-25-92	8/B-4	1500	1500
	O.FIELD	JAN-25-92	7/A-2	1000	1000
	O.FIELD	FEB-01-92	9/A-2	1000	5000
	O.FIELD	FEB-15-92	9/A-3	1000	5000
TOTAL				6000	14000
S.CORN	O.FIELD	MAR-30-92	7/B-2	1000	1000
	O.FIELD	APR-30-92	8/A-3	1500	1500
	O.FIELD	APR-30-92	8/A-6	1500	1500
	O.FIELD	JAN-25-92	9/A-1	1000	2000
TOTAL				5000	6000

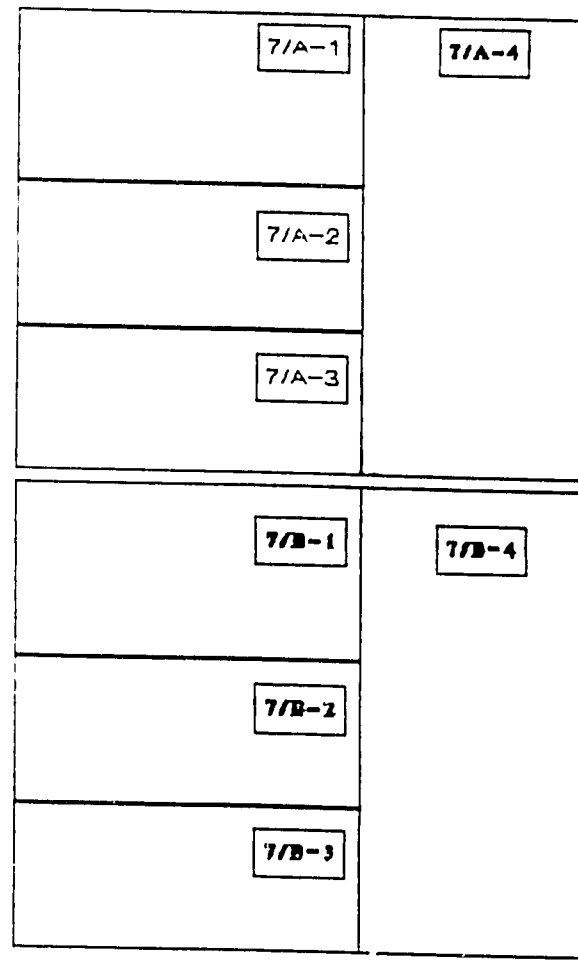
MARYUT PROJECT

VEGETABLE SECTIONS 6,7

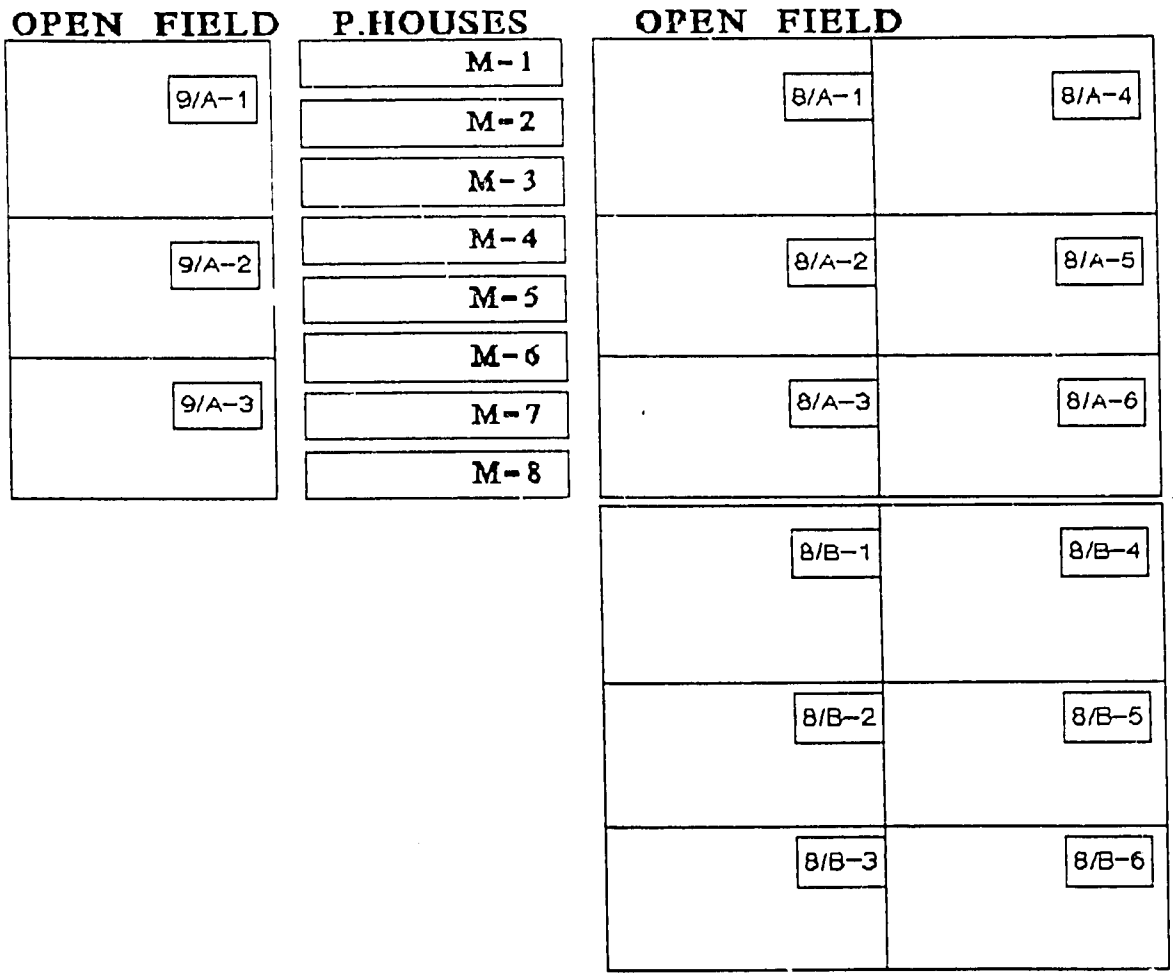
PLASTIC HOUSES

S-1	L-1
S-2	L-2
S-3	L-3
S-4	L-4
S-5	L-5
S-6	L-6
S-7	L-7
S-8	L-8
S-9	L-9
S-10	L-10
S-11	L-11
S-12	L-12
S-13	L-13
S-14	L-14
S-15	L-15
S-16	L-16

OPEN FIELD



MARYUT PROJECT
VEGETABLE SECTIONS 8,9



APPENDIX

A - CUCUMBER TABLES
B - TOMATO TABLES
C - MELON TABLES
D - EGGPLANT TABLES
E - PEPPER TABLES
F - FERTIGATION TABLES

APPENDIX A

CUCUMBER

MARYUT PROJECT

CUCUMBER

PLANTING DATE : 4/10/90

P/HOUSE	L-10	
DATE	436	428
NOV-03	80.00	0.00
NOV-06	95.00	1.00
NOV-10	50.00	2.00
NOV-13	36.00	0.50
NOV-16	73.00	3.00
NOV-20	107.00	3.00
NOV-24	110.00	3.00
NOV-26	43.00	3.00
DEC-02	39.00	5.00
DEC-05	66.00	1.00
DEC-10	183.00	4.00
DEC-16	72.00	3.00
DEC-20	56.00	2.00
DEC-22	57.00	1.00
DEC-29	58.00	2.00
JAN-07	64.00	4.00
TOTAL	1189.00	37.50
NO. OF PLANT	1200	50
AV.Kg.PER PLANT	0.99	0.75
AV.Kg.PER 1 Sq.m	1.98	1.50

3/10/90

P/HOUSE	S-10
DATE	222
NOV-03	21.00
NOV-06	11.00
NOV-10	32.00
NOV-13	13.00
NOV-16	45.00
NOV-20	60.00
NOV-22	25.00
NOV-24	38.00
NOV-26	55.00
DEC-02	45.00
DEC-05	41.00
DEC-10	59.00
DEC-16	30.00
DEC-20	23.00
DEC-29	15.00
JAN-07	15.00
TOTAL	528.00
NO. OF PLANT	650
AV.Kg.PER PLANT	0.81
AV.Kg.PER 1 Sq.m	1.62

MARYUT PROJECT

CUCUMBER - PICOBELLO

PLANTING DATE : 11/2/91

P.HOUSE L-14

DATE	BLACK MULCH	CLEAR MULCH	WITHOUT MULCH
MAR-19	2.60	4.00	1.00
MAR-20	13.50	18.50	6.50
MAR-23	20.50	31.50	9.00
MAR-27	29.00	62.00	16.00
MAR-30	111.00	67.00	42.00
APR-02	55.00	70.00	18.00
APR-06	77.00	68.00	24.00
APR-08	60.00	85.00	28.00
APR-11	68.00	55.00	22.00
APR-13	16.00	18.00	7.00
APR-15	48.00	90.00	22.00
APR-17	77.00	97.00	47.00
APR-20	177.00	200.00	85.00
APR-23	53.00	64.00	28.00
APR-27	64.00	55.00	20.00
APR-29	34.00	35.00	16.00
MAY-01	37.00	31.00	17.00
MAY-04	36.00	31.00	15.00
MAY-07	23.00	28.00	16.00
MAY-11	97.00	84.00	45.00
MAY-14	16.00	14.00	6.00
MAY-18	44.00	42.00	23.00
MAY-21	22.00	34.00	35.00
MAY-24	30.00	27.00	18.00
MAY-27	27.00	29.00	13.00
JUN-01	41.00	37.00	22.00
JUN-05	25.00	27.00	14.00
TOTAL	1303.60	1424.00	615.50
No.PLANTS	445	445	220
AV.Kg.PER PLANT	2.93	3.20	2.80
AV.Kg.PER 1 Sq.m	6.74	7.36	6.43

MARYUT PROJECT

CUCUMBER - PICOBELLO

PLANTING DATE : 19/3/91

P.HOUSE S-14

DATE	BLACK MULCH	CLEAR MULCH	WITHOUT MULCH
MAR-19	2.50	0.80	0.10
MAR-20	8.00	3.50	0.50
MAR-23	4.00	3.50	0.50
MAR-27	11.00	12.00	6.00
MAR-30	45.00	37.00	13.00
APR-02	29.00	33.00	10.00
APR-06	18.00	22.00	12.00
APR-08	32.00	32.00	10.00
APR-11	56.00	50.00	20.00
APR-13	23.00	36.00	13.00
APR-15	33.00	42.00	18.00
APR-17	40.00	54.00	25.00
APR-20	78.00	87.00	35.00
APR-23	63.00	64.00	24.00
APR-27	29.00	32.00	15.00
APR-29	22.00	19.00	8.00
MAY-01	16.00	20.00	9.00
MAY-04	16.00	14.00	9.00
MAY-07	13.00	10.00	6.00
MAY-11	63.00	55.00	25.00
MAY-14	20.00	25.00	9.00
MAY-18	15.00	8.00	4.00
MAY-21	42.00	40.00	19.00
MAY-24	19.00	17.00	6.00
MAY-27	18.00	8.00	6.00
JUN-01	39.00	46.00	20.00
JUN-03	15.00	16.00	9.00
JUN-08	23.00	20.00	7.00
TOTAL	792.50	806.80	339.10
No.PLANTS	220	220	105
AV.Kg.PER PLANT	3.60	3.67	3.23
AV.Kg.PER 1 Sq.m	8.29	8.43	7.45

MARYUT PROJECT

CUCUMBER

CALTIVAR : CORDITO

PLANTING DATE : 15 /2/91

P/HOUSE L-12 IRRIGATION EXPERIMENT

DRIPPER DEPTH	0cm.		0 cm.		TOTAL	TOTAL
DISCHARGE	4/LH	2/LH	4/LH	2/LH	2/LH	4/LH
MARCH 27	12.00	22.00	30.00	12.00	34.00	42.00
MARCH 30	23.00	25.00	25.00	25.00	50.00	48.00
APRIL 02	15.00	20.00	14.00	11.00	31.00	29.00
APRIL 06	12.00	18.00	30.00	11.00	29.00	42.00
APRIL 08	10.00	14.00	10.00	6.00	20.00	20.00
APRIL 11	23.00	33.00	27.00	22.00	55.00	50.00
APRIL 13	18.00	23.00	29.00	32.00	55.00	47.00
APRIL 15	22.00	35.00	44.00	54.00	89.00	66.00
APRIL 17	66.00	46.00	80.00	63.00	109.00	146.00
APRIL 20	75.00	75.00	107.00	65.00	140.00	182.00
APRIL 23	60.00	65.00	40.00	23.00	88.00	100.00
APRIL 27	10.00	9.00	11.00	10.00	19.00	21.00
APRIL 29	10.00	9.00	13.00	12.00	21.00	23.00
MAY 01	60.00	70.00	70.00	40.00	110.00	130.00
MAY 04	21.00	18.00	22.00	25.00	43.00	43.00
MAY 07	12.00	9.00	8.00	10.00	19.00	20.00
MAY 11	60.00	48.00	55.00	50.00	98.00	115.00
MAY 14	40.00	32.00	30.00	30.00	62.00	70.00
MAY 18	39.00	30.00	44.00	35.00	65.00	83.00
MAY 19	8.00	5.00	7.00	4.00	9.00	15.00
MAY 21	40.00	24.00	44.00	45.00	69.00	84.00
MAY 24	42.00	38.00	35.00	52.00	90.00	77.00
MAY 27	24.00	16.00	23.00	18.00	34.00	47.00
JUN 01	50.00	60.00	33.00	40.00	100.00	83.00
JUN 04	20.00	18.00	44.00	28.00	46.00	64.00
JUN 08	14.00	11.00	9.00	16.00	27.00	23.00
JUN 12	17.00	12.00	14.00	11.00	23.00	31.00
JUN 16	13.00	14.00	11.00	6.00	20.00	24.00
TOTAL	803.00	785.00	898.00	750.00	1555.00	1725.00
NUMBER OF PLANTS					480	480
AV.Kg.PER PLANT					3.24	3.59
AV.Kg.PER Sq.m					6.48	7.18

MARYUT PROJECT

CUCUMBER

CALTIVAR : CORDITO

PLANTING DATE : 15/2/91

P/HOUSE L-11 IRRIGATION EXPERIMENT

DRIPPER DEPTH	15cm.		15cm.		TOTAL	TOTAL
DISCHARGE	4/LH	2/LH	4/LH	2/LH	2/LH	4/LH
MARCH 27	1.00	0.75	12.00	0.25	1.00	13.00
MARCH 30	6.00	18.00	20.00	7.00	25.00	26.00
APRIL 02	10.00	23.00	13.00	14.00	37.00	23.00
APRIL 06	18.00	18.00	28.00	11.00	29.00	46.00
APRIL 08	5.00	17.00	25.00	10.00	27.00	30.00
APRIL 11	17.00	20.00	27.00	20.00	40.00	44.00
APRIL 13	25.00	30.00	25.00	20.00	50.00	50.00
APRIL 15	33.00	41.00	34.00	39.00	80.00	67.00
APRIL 17	45.00	56.00	48.00	47.00	103.00	93.00
APRIL 20	60.00	75.00	75.00	70.00	145.00	135.00
APRIL 23	75.00	70.00	80.00	60.00	130.00	155.00
APRIL 27	10.00	9.00	7.00	14.00	23.00	17.00
APRIL 29	10.00	9.00	13.00	12.00	21.00	23.00
MAY 01	30.00	50.00	30.00	20.00	70.00	60.00
MAY 04	28.00	20.00	22.00	20.00	40.00	50.00
MAY 07	8.00	8.00	2.00	3.00	11.00	10.00
MAY 11	85.00	65.00	40.00	50.00	115.00	125.00
MAY 14	33.00	30.00	60.00	45.00	75.00	93.00
MAY 18	35.00	44.00	50.00	37.00	81.00	85.00
MAY 19	6.00	5.00	4.00	2.00	7.00	10.00
MAY 21	54.00	44.00	43.00	47.00	91.00	97.00
MAY 24	35.00	35.00	35.00	42.00	77.00	70.00
MAY 27	44.00	22.00	7.00	22.00	44.00	51.00
JUN 01	100.00	40.00	70.00	55.00	95.00	170.00
JUN 04	10.00	14.00	24.00	28.00	42.00	34.00
JUN 08	15.00	15.00	16.00	16.00	31.00	31.00
JUN 12	25.00	25.00	34.00	10.00	35.00	59.00
JUN 06	16.00	18.00	16.00	20.00	38.00	32.00
TOTAL	839.00	821.75	860.00	741.25	1563.00	1699.00
NUMBER OF PLANTS					480	480
AV.Kg.PER PLANT					3.26	3.54
AV.Kg.PER Sq.m					6.52	7.08

CUCUMBER

CALTIVAR : CORDITO

PLANTING DATE : 15/2/91

P/HOUSE L-13 IRRIGATION EXPERIMENT

DRIPPER DEPTH 25cm. DISCHARGE	4/LH	2/LH	4/LH	2/LH	TOTAL 2/LH	TOTAL 4/LH
MARCH 27	4.00	0.50	2.50	0.50	1.00	6.50
MARCH 30	10.00	10.00	18.00	7.00	17.00	28.00
APRIL 02	10.00	11.00	13.00	9.00	20.00	23.00
APRIL 06	11.00	22.00	18.00	14.00	36.00	29.00
APRIL 08	12.00	17.00	7.00	7.00	24.00	19.00
APRIL 11	23.00	18.00	27.00	18.00	36.00	50.00
APRIL 13	17.00	16.00	30.00	10.00	26.00	47.00
APRIL 15	28.00	33.00	54.00	25.00	58.00	82.00
APRIL 17	70.00	73.00	60.00	34.00	107.00	130.00
APRIL 20	125.00	105.00	130.00	50.00	155.00	255.00
APRIL 23	40.00	25.00	37.00	46.00	71.00	77.00
APRIL 27	9.00	7.00	5.00	4.00	11.00	14.00
APRIL 29	9.00	6.00	10.00	18.00	24.00	19.00
MAY 01	40.00	30.00	20.00	25.00	55.00	60.00
MAY 04	37.00	35.00	30.00	25.00	60.00	67.00
MAY 07	12.00	10.00	13.00	14.00	24.00	25.00
MAY 11	65.00	60.00	45.00	42.00	102.00	110.00
MAY 14	70.00	35.00	75.00	20.00	55.00	145.00
MAY 18	64.00	50.00	58.00	35.00	85.00	122.00
MAY 19	5.00	4.00	3.00	1.00	5.00	8.00
MAY 21	44.00	43.00	35.00	25.00	68.00	79.00
MAY 24	45.00	33.00	30.00	20.00	53.00	75.00
MAY 27	38.00	28.00	18.00	25.00	53.00	56.00
JUN 01	80.00	70.00	60.00	52.00	122.00	140.00
JUN 03	20.00	12.00	12.00	12.00	24.00	32.00
JUN 04	6.00	4.00	7.00	5.00	9.00	13.00
JUN 08	16.00	15.00	20.00	14.00	29.00	36.00
JUN 13	46.00	13.00	15.00	9.00	22.00	61.00
JUN 17	28.00	18.00	16.00	14.00	34.00	44.00
TOTAL	956.00	785.50	852.50	566.50	1386.00	1852.50

NO. OF PLANTS	480	480
AV.kg.PER PLANT	2.89	3.86
AV.kg.PER : Sq.m.	5.78	7.72

05-Jul-91

MARYUT PROJECT

CUCUMBER - VARIETY TEST

PLANTING DATE : 14/2/91

PLASTIC HOUSE S-7

DATE	425A	424B	429C	427D	723	10	PICOBELO	RAWA
MAR-21	0.68	0.76	1.58	1.88	0.66	1.04	0.00	0.20
MAR-24	2.26	0.68	1.08	1.94	2.78	2.54	1.45	0.88
MAR-27	4.54	3.25	2.42	2.42	5.28	5.08	4.12	4.84
MAR-31	8.72	5.42	7.60	8.98	8.38	9.64	8.50	13.32
APR-02	4.44	2.12	3.14	2.66	6.36	6.66	5.72	6.74
APR-06	5.70	3.14	5.00	4.80	7.10	7.68	6.90	6.68
APR-10	9.60	6.10	7.56	8.60	13.10	9.94	9.64	16.04
APR-13	5.44	1.44	2.60	6.58	4.69	5.72	6.62	6.22
APR-17	6.75	4.85	3.75	4.82	8.30	8.00	9.00	7.05
APR-20	10.25	7.15	5.35	12.28	14.68	9.90	7.90	10.45
APR-23	7.00	6.75	5.00	10.00	11.25	10.00	7.25	9.25
APR-27	6.00	3.00	3.40	4.75	8.10	5.35	7.45	7.25
MAY-01	17.00	4.75	10.75	14.25	18.75	10.25	14.00	22.75
MAY-04	4.25	1.00	3.00	3.25	7.50	3.25	5.50	8.50
MAY-08	6.00	4.00	5.50	5.75	11.00	6.25	8.25	11.00
MAY-11	7.75	1.75	7.00	5.00	14.50	5.25	7.25	15.50
MAY-14	7.50	1.50	4.25	5.25	9.75	6.75	5.50	10.00
MAY-16	2.25	0.75	1.00	2.50	2.00	1.60	1.10	1.85
MAY-19	4.00	0.95	4.50	3.35	9.75	3.85	4.50	9.00
MAY-22	7.50	2.85	2.80	4.20	11.00	3.50	5.50	6.50
MAY-25	6.75	3.35	5.50	6.75	12.00	3.50	6.35	6.25
MAY-28	4.25	2.25	3.10	4.50	8.50	3.60	4.35	4.80
JUN-02	13.00	4.80	6.25	10.25	12.75	6.50	7.65	13.40
JUN-06	8.25	4.75	4.75	8.50	10.00	7.00	7.25	8.50
JUN-09	11.00	3.85	7.50	14.50	16.75	7.25	9.25	10.50
TOTAL	170.88	81.21	114.38	157.76	234.93	150.10	161.00	217.47
NO. OF PLANTS	52	32	40	52	68	52	48	58
AV.Kg.PER PLANT	3.29	2.54	2.86	3.03	3.45	2.89	3.35	3.75
AV.Kg.per Sq.m	6.57	5.08	5.72	6.07	6.91	5.77	6.71	7.50

MARYUT PROJECT

CUCUMBER

PLANTING DATE : 13/2/91

CALTIVAR : RAWA

DATE	S-12 BLACK MULCH Kg.	S-11 NO MULCH Kg.
MARCH 19	1.50	6.50
MARCH 20	8.00	18.50
MARCH 23	18.00	32.00
MARCH 27	25.00	23.00
MARCH 30	90.00	90.00
APRIL 02	56.00	67.00
APRIL 06	40.00	48.00
APRIL 08	55.00	65.00
APRIL 11	72.00	72.00
APRIL 13	35.00	33.00
APRIL 15	49.00	50.00
APRIL 17	55.00	78.00
APRIL 20	185.00	175.00
APRIL 23	190.00	165.00
APRIL 27	100.00	130.00
APRIL 29	90.00	96.00
MAY 01	70.00	85.00
MAY 04	120.00	95.00
MAY 07	55.00	55.00
MAY 11	150.00	187.00
MAY 14	135.00	110.00
MAY 18	100.00	123.00
MAY 21	110.00	145.00
MAY 24	90.00	82.00
MAY 27	61.00	77.00
JUN 01	95.00	110.00
JUN 03	44.00	63.00
JUN 05	48.00	68.00
JUN 06	80.00	105.00
JUN 11		65.00
JUN 13		35.00
JUN 18		33.00
TOTAL	2227.50	2587.00
NUMBER OF PLANTS	465	465
AV.Kg.per PLANT	4.79	5.56
AV.Kg.PER Sq.m	9.58	11.12

05-Jul-91

MARYUT PROJECT

CUCUMBER CALTIVAR 436

PLANTING
DATES : 17/3/91 19/3/91

SPRING

DATE	HOUSE L-6	HOUSE S-6
APR-11	36.00	12.00
APR-21	110.00	50.00
APR-23	50.00	30.00
APR-25	43.00	25.00
APR-27	41.00	32.00
APR-29	72.00	31.00
MAY-01	55.00	33.00
MAY-04	154.00	73.00
MAY-06	51.00	15.00
MAY-08	49.00	22.00
MAY-11	191.00	95.00
MAY-13	150.00	75.00
MAY-16	140.00	20.00
MAY-19	130.00	64.00
MAY-21	104.00	54.00
MAY-25	155.00	65.00
MAY-28	105.00	65.00
MAY-30	100.00	63.00
JUN-01	68.00	49.00
JUN-03	66.00	40.00
JUN-05	115.00	44.00
JUN-08	167.00	92.00
JUN-10	68.00	34.00
JUN-13	84.00	48.00
JUN-16	90.00	60.00
JUN-18	25.00	7.00
JUN-20		26.00
JUN-23		37.00
TOTAL	2419.00	1261.00
NUMBER OF PLANTS	935.00	725.00
AV.Kg.PER PLANT	2.59	1.74
AV.Kg.PER Sq.m	5.17	5.22

05-Jul-91

MARYUT PROJECT

CUCUMBER FOR PICKLING

PLANTING DATE : 4/10/90

P/HOUSE	L-15	S-14
DATE		
NOV-03	9.00	3.00
NOV-06	30.00	8.00
NOV-10	6.00	4.00
NOV-13	1.00	1.00
NOV-17		5.00
NOV-19	147.00	25.00
NOV-22		2.00
NOV-24	5.00	15.00
NOV-26	17.00	
NOV-29		25.00
DEC-02	50.00	20.00
DEC-05	33.00	
DEC-10		
DEC-13		70.00
DEC-16	150.00	12.00
TOTAL	448.00	190.00
AV.Kg.PER 1 Sq.m	0.86	0.83

MARYUT PROJECT

CUCUMBER

PLANTING DATE : 11/10/90

P/HOUSE L-13

DATE	KATIA	205
NOV-03	3.00	26.00
NOV-06	12.00	10.00
NOV-10	17.00	20.00
NOV-13	10.00	6.00
NOV-16	15.00	12.00
NOV-20	58.00	45.00
NOV-22	20.00	27.00
NOV-24	16.00	10.00
NOV-26	23.00	11.00
NOV-29	25.00	18.00
DEC-02	40.00	35.00
DEC-05	50.00	30.00
DEC-12	107.00	45.00
DEC-20	85.00	36.00
DEC-29	17.00	15.00
JAN-01	28.00	20.00
TOTAL	526.00	366.00
NO. OF PLANT	650	556
AV.Kg.PER PLANT	0.81	0.66
AV.kg.PER 1 Sq.m	1.62	1.32

05-Jul-91

MARYUT PROJECT

CUCUMBER

PLANTING DATE : 4/10/90

P.HOUSE L-9 VARIETAL TEST

DATE	222	katia	kesem	436	154	205	428	847/8
3/11	10.25	3.85	4.00	8.25	11.00	8.75	7.50	5.5
6/11	11.25	5.00	5.75	5.50	5.25	5.25	4.75	4
10/11	10.25	3.25	4.50	6.75	6.25	3.75	5.75	4.5
13/11	5.50	2.25	3.25	3.00	3.25	3.00	3.50	3.75
19/11	17.25	8.50	9.00	11.25	10.50	9.75	9.50	13.75
22/11	14.50	10.50	8.50	8.50	10.00	5.50	10.50	7.5
26/11	20.25	10.25	5.00	10.50	8.75	7.00	9.00	6.5
2/12	11.75	7.75	7.00	9.25	12.00	9.00	5.50	8.75
5/12	9.50	12.75	5.50	4.50	4.00	7.25	5.75	6
11/12	18.25	13.25	9.75	9.75	7.75	9.25	10.50	9.5
16/12	6.50	2.75	2.50	3.75	3.50	3.25	3.25	3.25
23/12	10.50	10.00	7.00	5.75	6.25	7.00	5.75	6.25
29/12	5.50	7.50	6.25	5.50	4.75	4.00	4.75	6
7/01/91	7.00	7.75	7.75	3.75	4.50	6.00	5.75	5.5
TOTAL	158.25	105.35	85.75	96.00	97.75	88.75	91.75	90.75
PLANTS	187	108	108	108	108	108	108	108
No.PLANTS	0.85	0.98	0.79	0.89	0.91	0.82	0.85	0.84
AV.Kg.PER : Sq.m	1.69	1.95	1.59	1.78	1.81	1.64	1.70	1.68

MARYUT PROJECT

CUCUMBER

PLANTING	4.10.90	5.10.90
P/HOUSE	S-11	S-12
DATE	436	154
NOV-03	24.50	40.00
NOV-06	35.00	27.00
NOV-10	45.00	25.00
NOV-13	23.00	14.00
NOV-17	54.00	49.00
NOV-19	35.50	27.00
NOV-22	61.00	60.00
NOV-24	12.00	12.50
NOV-26	52.00	17.00
NOV-29	60.00	26.00
DEC-02	60.00	44.00
DEC-05	49.00	42.00
DEC-10	64.00	56.00
DEC-13	37.00	18.00
DEC-16		
DEC-18	42.00	13.00
DEC-23		45.00
DEC-24	65.00	
DEC-29	33.00	
JAN-01		26.00
TOTAL	752.00	561.50
NO. OF PLANTS	650	650
AV.Kg.PER PLANT	1.16	0.86

MARYUT PROJECT

CUCUMBER

PLANTING DATE : 10/10/90

P.HOUSE S-15 VARIETAL TEST

DATE	FICOBELO	KESEM	154	222	436
10/11	4.00	9.50	5.00	9.00	4.75
13/11	2.30	2.50	2.75	2.25	2.25
16/11	8.50	5.00	7.00	7.50	8.00
19/11	7.00	9.00	10.00	9.50	9.50
20/11	1.50	5.00	4.00	4.50	3.00
24/11	3.50	5.50	5.50	7.50	3.00
27/11	4.75	3.50	4.50	5.50	4.25
29/11	5.00	4.00	3.00	6.00	3.00
2/12	19.00	9.00	11.00	10.00	7.00
5/12	8.50	6.00	3.50	7.00	6.00
10/12	5.50	4.00	4.25	4.50	5.75
13/12	7.50	2.50	6.00	1.70	3.75
16/12	2.45	3.00	2.00	3.55	3.00
20/12	6.00	8.00	4.00	4.00	4.50
24/12	5.00	4.50	4.00	4.75	5.75
30/12/90	6.00	5.00	2.00	5.00	3.00
2/01/91	2.00	1.50	1.25	2.00	0.75
7/01/91	12.50	5.00	5.00	4.00	6.50
TOTAL	111.00	92.50	84.75	98.25	83.75
No.PLANTS	115	115	112	112	113
AV.Kg.PER PLANT	0.97	0.80	0.76	0.88	0.74
AV.kg.PER 1 Sq.m	2.22	1.85	1.74	2.02	1.70

MARYUT PROJECT 05-Jul-9

CUCUMBER

PLANTING DATE : 11/9/90

P.HOUSE S-13 VARIETY TEST

DATE	154	436	KESEM	PICOBELO	222
3/11	3.50	3.00	3.00		1.50
6/11	2.00	6.00	3.00		2.50
10/11	5.00	5.00	4.00	1.00	3.00
13/11	2.00	1.50	2.00	1.50	3.00
17/11	5.00	4.00	5.50	5.00	6.00
20/11	10.00	8.50	12.00	7.00	7.00
22/11	6.00	4.00	6.00	3.00	5.00
24/11	2.00	1.00	2.50	0.75	3.00
26/11	5.00	6.00	6.00	7.00	8.00
29/11	3.00	3.50	3.00	5.00	5.00
2/12	12.00	10.00	9.00	8.00	15.00
5/12	7.00	9.00	7.00	8.00	8.00
11/12	7.00	8.00	12.00	15.00	10.00
17/12	5.00	4.50	5.50	4.00	4.50
22/12	6.50	5.50	4.50	5.50	5.00
24/12	2.50	4.00	6.50	7.00	4.00
29/12	4.00	5.00	4.00	4.00	2.00
2/01/91	2.50	4.00	2.00	3.00	3.00
TOTAL	90.00	92.50	97.50	84.75	95.50
No.PLANTS	124	122	122	118	114
AV.Kg.PER PLANT	0.73	0.76	0.80	0.72	0.84
AV.Kg.Sq.	1.74	1.82	1.92	1.72	2.01

05-Jul-91

MARYUT PROJECT

CUCUMBER - VARIETY TEST

PLANTING DATE : 14/2/91

P.HOUSE L-7

DATE	452A	424B	429C	427D	723	10 PICOBELO	RAWA
MAR-20	4.00	2.28	1.36	3.75	2.69	0.32	0.72	2.28
MAR-21	2.31	1.59	1.38	3.46	3.41	1.90	3.16	3.04
MAR-24	5.08	4.00	2.86	4.19	6.22	6.46	4.84	3.38
MAR-27	13.89	9.74	9.66	9.74	19.70	15.12	13.78	12.63
MAR-30	14.58	13.77	9.50	17.86	24.62	17.92	16.54	21.40
APR-02	14.16	10.16	8.80	15.24	27.94	22.68	17.52	19.04
APR-06	12.94	11.22	7.50	13.90	23.46	18.20	16.40	17.50
APR-09	14.90	12.40	9.18	16.68	24.32	17.78	19.98	21.56
APR-13	15.70	10.30	8.80	15.10	21.70	12.60	17.80	17.20
APR-14	5.82	3.70	3.64	5.76	11.01	6.12	5.70	7.14
APR-17	10.50	9.00	3.95	9.75	16.75	10.40	10.75	9.75
APR-20	30.50	22.00	16.00	28.00	43.25	33.75	36.50	39.75
APR-23	18.50	14.75	15.25	25.00	39.50	26.75	33.00	31.25
APR-27	19.00	9.50	9.10	19.00	44.00	30.00	24.50	30.00
MAY-01	50.75	23.25	23.25	42.00	62.25	36.25	35.00	43.00
MAY-04	8.25	9.25	7.25	12.25	21.50	18.00	19.00	14.75
MAY-07	9.25	9.00	4.75	9.75	18.25	10.50	11.50	13.25
MAY-11	36.00	17.00	22.25	32.75	70.50	37.00	32.50	42.25
MAY-13	7.00	2.50	5.50	7.25	17.75	9.25	11.75	12.75
MAY-16	15.00	6.00	5.25	15.75	24.50	12.50	15.75	12.25
MAY-20	9.75	4.50	6.50	12.00	15.25	12.00	7.75	8.75
MAY-22	10.50	6.50	3.25	7.50	19.75	10.00	9.75	7.75
MAY-25	24.00	19.00	10.75	22.50	35.75	26.75	22.25	22.75
MAY-27	7.25	3.25	6.50	9.25	15.50	9.00	7.00	6.00
MAY-30	11.75	10.25	11.25	12.75	25.75	15.50	16.25	14.25
JUN-02	22.75	8.15	10.75	16.00	26.75	19.25	19.75	19.50
JUN-05	15.50	10.25	10.00	18.25	36.50	15.00	13.50	17.75
JUN-08	23.00	18.25	13.50	12.25	22.25	14.75	15.25	15.75
TOTAL	432.63	281.56	247.73	417.68	720.82	465.75	458.19	486.67
NO. OF PLANTS	110	95	67	102	155	110	109	110
AV.Kg.PER PLANT	3.93	2.96	3.70	4.09	4.65	4.23	4.20	4.42
AV.Kg.PER 1 Sq.m	7.87	5.93	7.39	8.19	9.30	8.47	8.41	8.85

MARYUT PROJECT

CUCUMBER

PLANTING DATE : 9/9/90 12/9/90

P/HOUSE	L-11		L-12	
DATE	PICOBELO	CORDITO	PICOBELO	CORDITO
OCT-13	9.25	26.50	6.00	21.00
OCT-16	54.00	28.00	35.00	65.00
OCT018	30.00	34.00	39.00	39.00
OCT-23	45.00	44.00	48.00	48.00
OCT-28	70.00	45.00	55.00	52.00
OCT-31	30.00	51.00	60.00	45.00
NOV-03	36.00	40.00	22.00	31.00
NOV-06	20.00	10.00	36.00	29.00
NOV-10	22.00	18.00	35.00	33.00
NOV-13	31.00	26.00	33.00	28.00
NOV-16	46.00	38.00	32.00	47.00
NOV-19	39.00	13.00	20.00	11.00
NOV-22	100.00	60.00	43.00	30.00
NOV-24	28.00	41.00	22.00	45.00
NOV-26	20.00	32.00	33.00	20.00
NOV-29	45.00	30.00	45.00	25.00
DEC-02	43.00	81.00	50.00	46.00
DEC-05	62.00	38.00	43.00	29.00
DEC-10	88.00	118.00	74.00	85.00
DEC-13	25.00	32.00	33.00	25.00
DEC-18	17.00	18.00	13.00	21.00
DEC-24	36.00	64.00	72.00	50.00
DEC-29	17.00	23.00	18.00	18.00
TOTAL	914.25	887.50	867.00	825.00
NO. OF PLANT	447	409	438	442
AV.kg.PER PLANT	2.05	2.17	1.98	1.87
AV.Kg.PER 1 Sq.m	4.09	4.34	3.96	3.73

APPENDIX B

TOMATO

F_1 Hybrid Tomato 'TY-20'

M. Pilowsky and S. Cohen
Dept. of Plant Genetics & Breeding, and Virus Laboratory
ARO, The Volcani Center, Bet Dagan, Israel

TY-20 is a F_1 hybrid tomato cultivar tolerant to tomato yellow leaf curl virus (TYLCV). Inoculated plants show mild disease symptoms. When young plants are infected, they recovered very slowly from the disease. Therefore it is very important to prevent virus infection in the nursery. Seedlings should be grown in an insect-proof greenhouse or screenhouse and treated against whiteflies every two days with a synthetic pyretroid like 'Smesh' (Fenpropathrin- cyano-3-phenoxybenzyl 2,2,3,3, tetramethylcyclopropanecarboxylate) at a concentration of 3 ml. per one liter of water.

During the first month after transplanting to the field, plants should be sprayed against whiteflies every 2-3 days as mentioned previously. Thereafter it is recommended to avoid whitefly population built up and direct damage to the plants by the insect (sprays every 7-10 days).

TY-20 is a determinate type tomato. Fruit is flatened-globe with green shoulders, medium size (110-140 grams); firmness is fair.

In addition to TYLCV tolerance, TY-20 is resistant to Fusarium race 1 (*Fusarium oxysporum* f. sp. *lycopersici*) and to Verticillium race 1 (*verticillium dahliae*).

Seed of cultivar TY-20 are produced by Hazera Seed Company. P.O.B. 1565, Haifa, Israel.

05-Jul-91

MARYUT PROJECT

TOMATO TY-20 VIRUS TOLERANCE

DATE	WEIGHT	WEEKLY
NOV-22	37.00	
NOV-24	60.00	97.00
NOV-29	120.00	120.00
DEC- 7	276.00	276.00
DEC-11	536.00	
DEC-13	70.00	606.00
DEC-16	434.00	
DEC-16	209.00	
DEC-18	89.00	
DEC-21	31.00	
DEC-22	54.00	817.00
DEC-23	150.00	
DEC-24	662.00	
DEC-25	540.00	
DEC-26	26.00	
DEC-27	205.00	
DEC-27	60.00	1643.00
DEC-30	933.00	
JAN- 1	786.00	
JAN- 4	79.00	1798.00
JAN- 7	850.00	
JAN- 9	941.00	
JAN-10	100.00	
JAN-10	840.00	2731.00
JAN-15	400.00	
JAN-16	1757.00	
JAN-17	123.00	
JAN-19	350.00	2630.00
JAN-27	455.00	
JAN-28	311.00	
JAN-29	480.00	
FEB- 2	500.00	1746.00
FEB- 6	250.00	250.00
	12714.00	12714.00

ROW NO.	WEEK-3	WEEK-4	WEEK-5
1	3	3	3
2	4	5	6
3	21	25	26
4	3	3	3
5	5	8	8
6	4	4	4
7	4	4	4
8	3	3	3
9	6	7	2
10	3	4	4
11	3	3	3
12	1	1	1
13	2	3	3
14	1	1	1
15	1	1	1
16			
17	2	2	2
18	1	1	1
19	2	2	2
20	10	11	11
21	4	5	5
22	2	2	23
23	1	1	1
24	2	2	2
25	2	2	2
26			
27	2	2	2
28	2	2	2
29	1	2	2
30		1	1
31	3	3	3
32	1	2	2
	99	115	133

05-Jul-91

TOMATO PLANTING DATE : 14/9/90

CULTIVAR CARMELLO

YIELD HARVESTING DATA

DATE	L-1	S-1
NOV-26	5.00	4.00
DEC-04	25.00	14.00
DEC-10	19.00	28.00
DEC-16	26.00	34.50
DEC-23	25.00	32.00
DEC-27	24.00	54.00
JAN-01	60.00	59.00
JAN-10	56.00	64.00
JAN-13	14.00	11.00
JAN-21	120.00	200.00
JAN-26	53.00	88.00
JAN-28	32.00	56.00
FEB-02	88.00	18.00
FEB-7	217.00	137.00
FEB-13	271.00	116.00
FEB-19	432.00	184.00
FEB-23	240.00	98.00
FEB-27	270.00	103.00
MAR-7	270.00	15.00
MAR-13	120.00	40.00
MAR-17	100.00	40.00
MAR-21	160.00	40.00
MAR-24	10.00	35.00
MAR-28	44.00	31.00
APR-01	100.00	54.00
APR-7	35.00	25.00
APR-14	41.00	23.00
APR-24	290.00	135.00
TOTAL	3147.00	1738.50
NUMBER OF PLANTS	1157	560
AV.Kg.per plant	2.72	3.10

05-Jul-91

MARYUT PROJECT

HARVESTING DATA TOMATO

VARIETY TEST HOUSE S-2 PLANTING DATE : 20/9/90

DATE	FA-146	CARMEL	U-65	FA-144	BR-135	FA-111	BR-160	FA-152
DEC 04	0.75	0.75	1.50		0.50	0.50		
DEC 10	3.00	1.50	0.75	0.75	1.00	4.25	0.25	
DEC 16	3.50	3.25	4.00	1.50	0.75	1.25	1.50	0.25
DEC 24	6.25	3.25	2.00	0.50	1.50	3.00	10.25	0.75
DEC 27	3.50	1.25	2.50	1.00	0.50	1.00	1.00	1.25
JAN 06	6.75	5.00	6.00	4.00	3.25	5.50	4.25	1.75
JAN 14	10.00	11.50	11.50	7.50	6.50	12.00	7.00	7.00
JAN 21	6.75	7.00	4.50	4.25	7.00	6.75	6.50	2.75
JAN 26	14.00	9.25	8.25	8.75	5.25	7.50	0.75	3.25
JAN 28	7.50	9.25	10.00	5.25	6.00	8.25	2.00	1.75
FEB 02	6.25	9.50	12.25	7.00	7.25	11.50	7.00	6.25
FEB 09	6.25	21.75	20.75	19.25	12.00	18.25	17.25	11.75
FEB 16	8.00	19.25	18.50	22.25	15.00	13.75	15.25	18.25
FEB 19	3.25	7.25	6.00	15.25	8.00	7.75	13.25	6.50
FEB 24	4.25	9.50	6.75	14.75	14.25	18.00	17.50	9.75
FEB 28	3.75	7.00	6.50	12.75	8.25	14.25	10.25	6.00
MAR 07	5.75	12.00	18.00	19.50	10.50	15.00	23.25	11.00
MAR 13	3.00	15.50	8.25	21.00	17.75	20.25	11.50	11.50
MAR 18	11.75	11.00	9.50	4.25	17.7	9.25	10.50	13.50
MAR 24	1.75	6.00	4.00	8.25	6.[illegible]0	7.75	7.25	5.75
MAR 28	4.00	6.75	3.50	12.00	8.00	9.00	7.50	4.50
APR 01	6.00	4.50	6.50	8.25	10.00	7.50	2.75	9.00
APR 07	2.25	2.50	2.50	2.75	2.50	2.25	1.50	2.75
APR 14	1.00	1.50	3.00	1.50	1.25	1.25	0.75	2.00
APR 24	0.75	3.00	1.50	2.25	1.00	1.50	2.50	3.25
APR 29	2.25	2.75	2.50	2.75	2.75	3.50	8.50	2.50
MAY 20	7.75	7.50	5.00	14.50	8.50	9.00	9.00	4.50
MAY 30	3.50	4.25	5.75	8.00	7.50	6.50	8.25	5.00
TOTAL	143.50	203.00	191.75	229.75	190.50	226.25	207.25	152.50
No. OF PLANTS	57	56	55	56	56	57	55	54
AV.Kg.PER PLANT	2.52	3.63	3.49	4.10	3.40	3.97	3.77	2.82
AV.Kg.PER : Sq.m	5.04	7.25	6.97	8.21	6.80	7.94	7.54	5.65

MARYUT PROJECT

TOMATO

PLANTING DATE : 14/9/90

TOMATO OPEN

CULTIVAR DATE	TY-20 Kg.	TY-15 Kg.
NOV-22	37.00	13.00
NOV-24	60.00	24.00
NOV-29	120.00	
DEC- 7	276.00	200.00
DEC-11	536.00	336.00
DEC-13	70.00	
DEC-16	434.00	
DEC-18	209.00	210.00
DEC-18	69.00	
DEC-21	31.00	
DEC-22	54.00	
DEC-23	150.00	40.00
DEC-24	662.00	461.00
DEC-25	540.00	
DEC-26	26.00	
DEC-27	205.00	
DEC-27	60.00	
DEC-30	933.00	570.00
JAN- 1	786.00	
JAN- 4	79.00	60.00
JAN- 7	850.00	
JAN- 9	941.00	
JAN-10	100.00	150.00
JAN-10	840.00	
JAN-15	400.00	
JAN-16	1757.00	350.00
JAN-17	123.00	
JAN-19	350.00	560.00
JAN-27	455.00	200.00
JAN-28	311.00	
JAN-29	480.00	
FEB- 2	500.00	400.00
FEB- 6	250.00	250.00
TOTAL	12714.00	3824.00
No.PLANTS	3648	1482
AV.Kg.PER PLANT	3.49	2.58
AV.PER 1m	6.97	5.16

05-Jul-91

MARYUT PROJECT

HARVESTING DATA TOMATO

VARIETAL TEST HOUSE L-2 PLANTING DATE : 17/9/90

DATE	FA-146	CARMEL	U-65	FA-144	BR-135	FA-111	BR-160	FA-152
DEC 04	2.25	5.00	5.25	0.25	0.25	0.50	1.00	1.00
DEC 10	4.25	3.25	4.50	0.50	2.00	0.15	0.75	1.25
DEC 16	7.50	6.25	5.50	0.75	3.50	0.15	3.00	3.75
DEC 24	3.50	3.00	4.00	1.25	3.00	1.25	2.00	2.50
DEC 27	4.75	2.50	3.00	1.00	3.50	0.50	2.00	4.25
JAN 06	8.75	8.00	10.00	4.25	3.25	4.25	8.00	6.25
JAN 14	13.75	10.00	11.75	10.00	13.00	8.75	15.00	7.75
JAN 21	6.75	7.00	4.50	4.25	7.00	6.25	6.50	2.75
JAN 26	22.00	8.50	9.00	2.00	4.00	2.25	1.25	1.25
JAN 28	7.25	3.00	7.26	12.50	9.25	8.50	14.00	6.75
FEB 02	11.75	9.75	12.00	8.25	9.00	11.25	13.00	7.50
FEB 09	26.00	18.50	22.75	18.25	14.00	22.50	14.25	11.00
FEB 16	21.75	37.75	36.26	47.25	29.00	32.00	28.50	9.25
FEB 19	17.35	20.75	30.00	31.50	27.00	22.50	20.00	14.00
FEB 24	27.00	31.75	30.00	27.75	18.25	31.25	27.00	19.00
FEB 28	22.50	34.75	21.00	32.75	28.00	21.75	16.50	17.75
MAR 07	12.50	15.00	9.50	14.75	22.50	24.25	15.00	11.25
MAR 13	28.75	34.50	22.75	39.50	24.75	15.50	22.50	24.00
MAR 18	25.25	29.00	18.00	36.50	25.75	15.00	29.25	17.00
MAR 24	11.50	16.50	9.25	22.00	12.25	12.00	13.75	9.00
MAR 28	8.00	9.50	9.00	13.50	8.50	10.50	8.50	11.50
APR 02	10.50	8.50	6.50	26.00	14.00	14.00	11.00	4.50
APR 07	5.50	4.50	4.00	10.00	6.25	8.00	6.25	4.50
APR 14	6.00	5.50	4.25	13.00	7.50	6.00	7.50	5.00
APR 24	6.00	4.50	3.50	7.25	3.25	4.25	2.75	3.50
APR 29	2.75	3.00	4.25	6.50	3.50	3.75	3.75	2.25
TOTAL	323.85	340.25	307.77	391.50	302.25	287.05	293.00	208.50
No.PLANTS	120	130	115	116	115	113	116	115
AV. Kg.PER PLANT	2.70	2.62	2.68	3.38	2.63	2.54	2.53	1.81
AV.Kg.PER 1 Sq.m.	5.40	5.23	5.35	6.75	5.26	5.08	5.05	3.63

MARYUT PROJECT

TOMATO

PLANTING DATE : 20/9/90

P.HOUSE S-3

DATE		BR-160	138/8
DEC	04	0.50	
DEC	11	6.00	1.50
DEC	16	26.00	1.40
DEC	20		1.50
DEC	26		7.00
DEC	29	5.50	5.50
JAN	06	30.00	31.00
JAN	09	30.25	8.50
JAN	13	10.50	7.00
JAN	21	168.00	3.00
JAN	26	150.00	18.00
JAN	28	60.00	35.00
FEB	02	160.00	35.00
FEB	05	120.00	35.00
FEB	10	120.00	45.00
FEB	14	85.00	45.00
FEB	16	100.00	20.00
FEB	19	100.00	45.00
FEB	23	80.00	35.00
FEB	25	120.00	20.00
FEB	27	90.00	
MARCH	04	120.00	
MARCH	09	60.00	
MARCH	11		40.00
MARCH	13	60.00	
MARCH	17	50.00	
MARCH	24	40.00	
MARCH	28	40.00	32.00
APRIL	01	45.00	
APRIL	07	30.00	
APRIL	14	25.00	
APRIL	23	39.00	
MAY	07	10.00	
MAY	13	40.00	
MAY	20	61.00	
MAY	26	31.00	31.00
MAY	30	26.00	
JUN	06	30.00	
TOTAL		2168.75	502.40
No.PLANTS		254	224
AV.Kg.PER PLANT		8.54	2.24
AV.Kg.PER : Sq.m		17.08	4.49

MARYUT PROJECT

TOMATO

PLANTING DATE : 16/9/90

P.HOUSE			HOUSE L-3
DATE		U-65	FA-144
NOV	28	10.00	
DEC	02	23.00	
DEC	04	21.00	1.00
DEC	11	24.00	5.00
DEC	16	42.00	5.00
DEC	23	26.00	
DEC	27	40.00	6.00
JAN	06	24.00	8.00
JAN	09	74.00	10.00
JAN	13	31.00	11.00
JAN	21	85.00	75.00
JAN	26	85.00	40.00
JAN	28	52.00	47.00
FEB	02	125.00	100.00
FEB	05	300.00	330.00
FEB	10	150.00	165.00
FEB	14	85.00	100.00
FEB	16	120.00	130.00
FEB	19	90.00	90.00
FEB	23	120.00	170.00
FEB	27	100.00	150.00
MARCH	04	90.00	120.00
MARCH	09	50.00	80.00
MARCH	12	30.00	46.00
MARCH	18	25.00	30.00
MARCH	24	30.00	50.00
MARCH	28	30.00	45.00
APRIL	01	40.00	55.00
APRIL	07	30.00	75.00
APRIL	13	25.00	30.00
APRIL	23	25.00	40.00
MAY	07	20.00	20.00
MAY	13	60.00	50.00
MAY	20	53.00	83.00
MAY	26	41.00	57.00
MAY	30	36.00	31.00
JUN	06	20.00	20.00
TOTAL		2199.00	2275.00
No.PLANTS		467	464
AV.Kg.PER PLANT		4.71	4.90
AV.Kg.PER 1 Sq.m		9.42	9.81

MARYUT PROJECT

TOMATO

PLANTING DATE : 21/9/90 | 16/9/90

P.HOUSE		HOUSE S-4		HOUSE L-4	
DATE		BR-160	FA-111	BR-160	FA-111
DEC	04	0.50	1.00	6.00	3.50
DEC	11	3.00	4.00	28.00	4.00
DEC	16	1.00	2.00	35.00	14.00
DEC	23			30.00	
DEC	27	14.00	8.00	41.00	19.00
JAN	01			20.00	2.00
JAN	06	10.00	12.00		
JAN	10	14.00	20.00	23.00	3.50
JAN	13	14.00	46.00	32.00	23.50
JAN	21	75.00	60.00	45.00	80.00
JAN	26	90.00	90.00	50.00	85.00
JAN	28	20.00	35.00	70.00	5.00
FEB	02	75.00	95.00	100.00	80.00
FEB	05	75.00	90.00	120.00	80.00
FEB	10	75.00	90.00	120.00	80.00
FEB	14	65.00	50.00	100.00	75.00
FEB	16	95.00	120.00	120.00	130.00
FEB	19	60.00	60.00	130.00	135.00
FEB	23	75.00	50.00	120.00	80.00
FEB	25	100.00	90.00	90.00	120.00
FEB	27	60.00	80.00	150.00	100.00
MARCH	04	50.00	70.00	70.00	50.00
MARCH	09	35.00	50.00	60.00	60.00
MARCH	13	30.00	25.00	40.00	45.00
MARCH	16			80.00	56.00
MARCH	18	50.00	30.00		
MARCH	24	85.00	25.00		
MARCH	28	45.00	25.00		
APRIL	01	40.00	20.00		
APRIL	07	27.00	20.00		
APRIL	14	30.00	25.00		
APRIL	23	27.00	19.00		
MAY	07	15.00	10.00		
MAY	13	30.00	25.00		
MAY	20	52.00	42.00		
MAY	26	26.00	18.50		
MAY	30	16.00	20.00		
JUN	06	15.00	10.00		
TOTAL		1494.50	1437.50	1680.00	1330.50
No.PLANTS		278	267	590	587
AV.kg.PER PLANT		5.38	5.38	2.85	2.27
AV.Kg.PER 1 Sq.m		10.75	10.77	5.69	4.53

05 Jul-91

MARYUT PROJECT

TOMATO

DATE OF
PLANTING 24.1.91

OPEN FIELD VARIETY OBSERVATION

DATE	9732/1	9356	5910	5912	9671	9171	9692	BR-84	7661	5656
MAY-14	13.00	3.00	11.00	10.00	3.50	3.50	8.00	5.00	5.00	2.00
MAY-19	30.00	35.00	22.00	11.00	30.00	20.00	25.00	15.00	3.00	30.00
MAY-22	25.00	20.00	59.00	32.00	30.00	17.00	13.00	9.00	21.00	32.00
MAY-25	55.00	40.00	43.00	75.00	37.00	57.00	63.00	38.00	32.00	10.00
MAY-26			40.00				114.00	14.00	13.00	17.00
MAY-27	38.00	64.00								
JUN-02			20.00	99.00	135.00	180.00		62.00	49.00	36.00
JUN-09	25.00	120.00	40.00	28.00	60.00	52.00	19.00	11.00	4.00	
TOTAL	186.00	282.00	235.00	255.00	295.50	329.50	242.00	154.00	127.00	127.00
NO. OF PLANTS	80	80	80	80	80	80	80	80	80	80
AV.Kg.PER PLANT	2.33	3.53	2.94	3.19	3.69	4.12	3.03	1.93	1.59	1.59
AV.Kg.PER 1 Sq.m	4.65	7.05	5.88	6.38	7.39	8.24	6.05	3.85	3.18	3.18

07-Jul-91

MARYUT PROJECT

TOMATO

PLANTING DATE : 5/2/91

P.HOUSE	L-9	L-10
DATE	BR-135	FA-146
MAY-04	11.00	14.00
MAY-08	45.00	54.00
MAY-11	225.00	453.00
MAY-16	497.00	455.00
MAY-19	342.00	393.00
MAY-23	463.00	459.00
MAY-28	283.00	264.00
JUN-01	249.00	250.00
JUN-04	190.00	190.00
JUN-08	349.00	491.00
JUN-11	221.00	218.00
JUN-26	160.00	215.00
JUN 29	183.00	212.00
JUN 07	260.00	240.00
TOTAL	3478.00	3908.00
NUMBER OF PLANTS	960	960
AV.Kg.per plant	3.62	4.07
AV.Kg.per Sq.m	10.87	12.21

07-Jul-91

MARYUT PROJECT

CHERRY TOMATO

PLANTING DATE : 4/10/90

P.HOUSE C-1: VARIETAL TEST

DATE		CH1	138	124	HA1
FEB	25	1.15	6.10	6.20	
MAR	13	10.00	14.55	18.75	12.30
MAR	14	6.50	26.00	40.50	36.75
MAR	23	13.25	46.25	96.00	42.00
APR	07	33.50	153.00	213.25	59.00
APR	21	55.50	211.00	120.00	37.00
MAY	05	38.00	238.00	231.50	27.00
MAY	19	46.00	132.00	161.00	57.00
MAY	29	43.50	69.00	144.00	72.00
JUN	11	42.00	66.00	152.00	50.00
JUN	21	36.00	53.00	144.00	60.00
TOTAL		355.40	1021.90	1327.20	453.05
No.PLANTS		401	407	582	164
AV.kg.PER PLANT		0.89	2.51	2.28	2.76

08-Jul-91

MARYUT PROJECT

TOMATO

PLANTING DATE : 5/2/91

P.HOUSE	L-9	L-10
DATE	BR-135	FA-146
MAY-04	11.00	14.00
MAY-08	45.00	54.00
MAY-11	225.00	453.00
MAY-16	497.00	455.00
MAY-19	342.00	393.00
MAY-23	463.00	459.00
MAY-28	283.00	264.00
JUN-01	249.00	250.00
JUN-04	190.00	190.00
JUN-08	349.00	491.00
JUN-11	221.00	218.00
JUN-26	160.00	215.00
JUN 29	183.00	212.00
JUN 07	260.00	240.00
TOTAL	3478.00	3908.00
NUMBER OF PLANTS	960	960
AV.Kg.per plant	3.62	4.07
AV.Kg.per Sq.m	10.87	12.21

MARYUT PROJECT

TOMATO

PLANTING DATE : 6/2/91

HOUSE 3-10 VARIETAL TEST

DATE	FA-191	FA-192	V-32	FA-23
MAY 04	4.10	5.60	6.30	4.00
MAY 08	20.00	23.00	15.50	17.50
MAY 12	41.00	52.00	37.00	34.00
MAY 16	39.00	37.00	44.00	46.00
MAY 21	47.00	46.00	36.50	35.50
MAY 26	32.00	37.50	21.25	27.00
MAY 28	15.50	13.50	7.50	9.75
JUN 01	26.00	23.50	13.25	21.00
JUN 05	26.00	28.50	13.50	38.00
JUN 08	31.50	32.50	24.50	35.00
JUN 11	33.00	27.00	22.00	29.00
JUN 15	56.00	24.50	18.50	22.75
JUN 22	41.50	33.50	32.00	49.00
JUL 06	35.00	23.00	22.00	11.00
TOTAL	447.60	407.10	313.80	379.50
No.PLANTS	112	113	115	111
AV.Kg.PER PLANT	4.00	3.60	2.73	3.42
AV.Kg.PER 1 Sq.m	7.99	7.21	5.46	6.84

05-Jul-91

MARYUT PROJECT

TOMATO

OPEN FIELD PLANTING DATE : 1/11/90

DATE	ORIT	HA1	B.SHEFER
FEB 16	4.65	5.65	26.70
FEB 21	167.50	52.50	32.50
FEB 27	354.50	115.00	90.00
MAR 09	228.00	138.00	167.50
MAR 14	293.00	177.00	147.50
MAR 21	107.00	90.50	121.50
MAR 26	46.50	36.50	50.50
MAR 31	25.50	38.25	66.75
APR 03	11.80	9.35	20.70
APR 14	16.00	7.50	9.50
APR 20	20.50	23.00	12.50
APR 23	17.00	16.50	8.50
TOTAL	1291.95	709.75	754.15
No.PLANTS	460	342	345
AV.Kg.per PLANT	2.81	2.08	2.19
AV.Kg.per 1 Sq.m	5.62	4.15	4.37

MARYUT PROJECT

TOMATO

OPEN FIELD PLANTING DATE : 3/12/90

DATE	ORIT	MAI	BENSHEFER
MARCH-31	23.75	6.20	10.65
APRIL 04	9.25	4.45	24.65
APRIL 11	76.00	26.00	26.50
APRIL 18	48.00	5.00	28.00
APRIL 21	86.00	26.00	79.00
APRIL 25	314.00	120.00	304.00
APRIL 29	522.00		192.00
MAY 04	489.00	136.00	197.00
MAY 08	281.00	46.00	122.00
MAY 11	186.00	48.00	66.00
MAY 14	153.00	35.50	65.00
MAY 18	151.00		
MAY 19	88.00	52.00	107.00
MAY 22	349.00	106.00	
MAY 26	467.00		149.00
MAY 27	66.00	303.00	177.00
MAY 28		124.00	
JUN 02	105.00		362.00
JUN 04	140.00		45.00
TOTAL	3554.00	1040.15	1956.80
No.PLANTS	345	342	336
AV.Kg.PER PLANT	10.30	3.04	5.82
AV.Kg.PER 1 SQ.M	20.60	6.08	11.65

05-Jul-91

MARYUT PROJECT

SAND CULTURE TOMATO

PLANTING DATE : 21/9/90

P.HOUSE S-16 VARIETAL TEST

DATE	U-65	BR-160	FA-144	138/8
DEC 02	1.50	1.00	0.50	
DEC 08	6.00	2.00	3.00	
DEC 11	12.00	8.00	15.00	2.00
DEC 23	15.00	15.00	27.00	
DEC 27	15.00	13.00	9.00	
JAN 21	92.00	23.50	28.00	
JAN 28	50.00	20.00	20.00	
FEB 02	30.00	19.00	18.00	
FEB 16	28.00	15.00	22.00	
FEB 19	5.00	10.00	23.00	
FEB 21	30.00	35.00	35.00	
FEB 26	55.00	70.00	52.00	34.00
MAR 02	40.00	35.00	30.00	40.00
MAR 05	30.00	21.00	35.00	20.00
MAR 18	40.00	34.00	46.00	39.00
MAR 25	20.00	10.00	31.00	30.00
APR 14	35.00	25.00	35.00	10.00
APR 24	7.00	15.00	25.00	15.00
MAY 08	8.00	15.00	25.00	15.00
MAY 11	11.00	20.00	30.00	19.00
MAY 18	33.00	57.00	75.00	20.00
MAY 28	83.00	56.00	77.00	23.00
JUN 10	86.00	93.00	33.00	33.00
JUN 18	47.00	70.00	50.00	43.00
JUN 25	54.00	58.00	57.00	25.00
TOTAL	833.50	740.50	801.50	368.00
No.PLANTS	150	150	150	100
AV.Kg.PER PLANTS	5.56	4.94	5.34	3.68
AV.kg.PER 1 Sq.m	12.78	11.35	12.29	22.08

APPENDIX C

MELON

MARYUT PROJECT

MELONS

P.HOUSE M-2 VARIETAL TEST PLANTING DATE : 19-12-90

DATE	GALIA Kg.	C-6 Kg	ARAVA Kg.	DAFNA Kg.	SHAVIT Kg.	MAK Kg.	MAK.1 Kg.
APR 11							1.00
APR 14	1.30	2.30	0.50			0.60	3.00
APR 21	6.30	12.70	9.10	2.50	5.10	7.20	14.60
APR 23	15.40	20.40	7.30	1.10	1.90	26.80	25.50
APR 27	17.00	31.20	12.10		6.10	15.10	12.20
MAY 01	19.20	21.30	15.00	3.60	43.10	12.50	15.25
MAY 04	4.80	14.30	19.70	10.90	41.40	17.80	3.70
MAY 06	16.00	59.60	21.50	22.00	44.40	15.00	12.50
MAY 08	25.50	46.25	33.75	29.75	23.25	22.75	11.00
MAY 11	36.50	110.00	41.75	60.50	26.50	19.00	9.00
MAY 13	40.50	104.50	51.50	64.50	41.50	22.00	10.00
MAY 15	16.00	34.50	13.50	15.75	11.25	4.75	6.00
MAY 23	3.95	10.20	5.00	4.00	6.80	5.00	1.85
JUN 02	7.80	7.60	5.50	2.00	5.50	5.00	2.90
TOTAL	220.25	477.05	239.20	216.80	256.80	173.70	125.50
NUMBER OF PLANTS	146.00	236.00	146.00	116.00	146.00	86.00	60.00
AV. Kg. PER PLANT	1.51	2.02	1.62	1.87	1.77	1.97	2.14
AV. Kg. per Sq.m	4.53	6.06	4.85	5.61	5.32	5.92	6.43

NUMBER OF FRUITS PER CALTIVAR

DATE	GALIA	C-6	ARAVA	DAFNA	SHAVIT	MAK	MAK.1
APR 11							1.00
APR 14	3.00	3.00	1.00			1.00	4.00
APR 21	21.00	29.00	13.00	6.00	13.00	15.00	26.00
APR 23	32.00	40.00	17.00	2.00	4.00	35.00	41.00
APR 27	37.00	64.00	32.00		12.00	26.00	19.00
MAY 01	36.00	43.00	45.00	10.00	107.00	14.00	19.00
MAY 04	10.00	26.00	32.00	15.00	60.00	24.00	7.00
MAY 06	26.00	104.00	34.00	44.00	90.00	22.00	24.00
MAY 08	43.00	82.00	46.00	53.00	43.00	31.00	10.00
MAY 11	46.00	178.00	56.00	94.00	43.00	21.00	9.00
MAY 13	52.00	172.00	62.00	104.00	59.00	23.00	11.00
MAY 15	34.00	57.00	19.00	37.00	22.00	8.00	11.00
MAY 23	20.00	31.00	12.00	6.00	11.00	9.00	4.00
JUN 02	18.00	22.00	11.00	5.00	9.00	7.00	6.00
TOTAL	384.00	851.00	360.00	378.00	473.00	235.00	192.00
AV.Kg. per FRUIT	0.57	0.54	0.55	0.51	0.52	0.60	0.66

MARYUT PROJECT

MELONS GALIA

PLANTING DATE - 19/12/90

P.HOUSE M-3

DATE	WEIGHT Kg.	NUMBER OF FRUITS
APR 19	35.00	77.00
APR 21	48.00	108.00
APR 23	27.00	56.00
APR 27	119.00	250.00
APR 29	103.00	200.00
MAY 01	90.00	170.00
MAY 05	179.00	260.00
MAY 06	98.00	176.00
MAY 08	130.00	224.00
MAY 11	230.00	370.00
MAY 13	205.00	190.00
MAY 15	115.00	174.00
MAY 18	92.00	140.00
MAY 22	63.00	96.00
TOTAL	1534.00	2491

AV.Kg.PER FRUIT 0.62

No.PLANTS 800

AV. Kg. PER PLANT 1.92

AV. Kg. 1 Sq.m 3.84

14/12/90

M-4

DATE	WEIGHT Kg.	NUMBER OF FRUITS
MAR-26	15.00	44.00
MAR-30	27.00	88.00
APR-01	50.00	173.00
APR 03	31.00	92.00
APR 07	80.00	125.00
APR 13	51.00	96.00
APR 19	8.00	37.00
APR 22	7.00	26.00
APR 27	16.00	54.00
MAY 13	40.00	60.00
MAY 15	48.00	66.00
MAY 18	69.00	107.00
MAY 22	38.00	54.00
TOTAL	480.00	1022

AV.Kg.PER FRUIT 0.47

No.PLANTS 800

AV. Kg. PER PLANT 0.60

AV. Kg. 1 Sq.m 1.20

M-7

05-Jul-91

MARYUT PROJECT

MELON GALIA

P.HOUSE M-8

DATE	REP-1	REP-2	REP-3	REP-4	REP-5	REP-6	REP-7	REP-8	REP-9	REP-10	REP-11	REP-12
MAY-11	0.75	3.50	1.00	1.50	2.00	0.00	1.25	1.00	4.10	1.50	0.75	0.00
MAY-13	3.00	6.50	3.00	2.75	6.00	0.00	4.25	2.50	5.75	3.50	2.50	2.50
MAY-18	9.00	23.00	33.00	27.00	16.00	16.00	9.00	26.00	16.00	39.00	29.00	17.00
MAY-20	16.50	27.00	26.00	13.50	20.00	21.00	11.00	15.50	20.50	11.50	29.00	13.50
MAY-22	18.50	9.50	18.50	15.00	11.00	10.50	7.50	11.50	16.00	16.00	18.00	23.00
MAY-24	7.00	10.00	13.50	26.50	9.00	12.00	28.00	3.00	13.00	16.50	10.50	4.00
MAY-28	3.00	3.00	5.00	4.00	4.00	4.00	1.50	15.00	2.00	9.00	3.00	2.00
JUN-03	0.00	6.00	0.00	4.50	3.50	1.50	8.50	3.00	3.00	5.50	4.00	3.50
JUN-06	5.50	8.00	8.00	2.00	4.00	1.00	11.00	8.00	7.00	6.00	7.00	7.00
JUN-11	6.00	11.00	11.50	10.50	6.00	19.00	3.00	4.00	3.00	6.00	3.50	1.50
TOTAL	69.25	107.50	119.50	107.25	81.50	85.00	85.00	89.50	90.35	114.50	107.25	74.00
No.PLANTS	66	66	66	66	66	66	66	66	66	66	66	66
AV.Kg.per PLANT	1.05	1.63	1.81	1.63	1.23	1.29	1.29	1.36	1.37	1.73	1.63	1.12
AV.Kg.per 1 Sq.m	2.10	3.26	3.62	3.25	2.47	2.58	2.58	2.71	2.74	3.47	3.25	2.24

M-6

05-Jul-91

MARYUT PROJECT

MELON GALIA

P.HOUSE M-7 MANURE EXPERIMENT

DATE	REP-1	REP-2	REP-3	REP-4	REP-5	REP-6	REP-7	REP-8	REP-9	REP-10	REP-11	REP-12
MAY-11	9.25	1.25	14.00	8.00	2.50	22.00	20.00	16.00	15.00	3.00	3.00	2.00
MAY-13	15.50	101.50	9.50	10.00	13.50	4.50	20.00	18.00	7.50	8.00	2.50	11.50
MAY-18	17.00	35.00	40.00	33.00	46.00	37.00	27.00	28.00	28.00	28.00	17.00	16.00
MAY-20	12.50	13.00	13.00	5.50	10.00	5.50	16.00	10.50	15.50	18.50	21.50	11.50
MAY-22	4.00	8.50	2.50	6.00	6.00	4.50	3.50	6.00	10.50	16.50	14.50	18.50
MAY-24	7.50	3.00	4.00	7.50	8.00	1.50	7.50	18.00	7.50	6.50	11.50	9.50
MAY-28	1.00	0.00	0.00	3.00	4.00	5.00	1.00	1.50	2.50	2.00	3.00	2.00
JUN-03	1.50	2.00	2.00	2.00	2.00	1.50	1.50	4.50	1.50	3.50	0.25	3.50
JUN-06	1.50	2.00	3.00	3.00	1.00	0.50	0.50	1.00	0.00	1.50	1.00	1.50
JUN-11	2.00	1.00	2.00	5.00	0.50	2.50	2.00	1.00	1.00	1.50	2.00	2.00
TOTAL	71.75	167.25	90.00	88.00	93.50	84.50	99.00	104.50	89.00	89.00	76.25	78.00
No.PLANTS	66	66	66	66	66	66	66	66	66	66	66	66
AV.Kg.per PLANT	1.09	2.53	1.36	1.33	1.42	1.28	1.50	1.58	1.35	1.35	1.16	1.18
AV.Kg.per 1 Sq.m	2.17	5.07	2.73	2.67	2.83	2.56	3.00	3.17	2.70	2.70	2.31	2.36

MARYUT PROJECT

CANTALOUPE

CALTIVAR : GALIA 5

PLANTING DATE : 25/2/91

P.HOUSE S-13

DATE	WEIGHT IN Kg.
MAY-21	15.00
MAY-25	22.00
MAY-28	84.00
MAY-30	33.50
JUN-06	130.00
JUN-08	126.00
JUN-26	60.00
TOTAL	470.50

NUMBER OF PLANTS 570

AV.Kg.per plant 0.83

AV.Kg.per Sq.m 2.48

MARYUT PROJECT

CANTALOUPE

CALTIVAR : GALIA 5

PLANTING DATE : 25/2/91

P.HOUSE S-15 SAND CULTRE

DATE	WEIGHT IN Kg.
MAY-21	7.50
MAY-25	12.00
MAY-28	42.00
MAY-30	36.00
JUN-06	80.00
JUN-08	54.00
JUN-26	200.00
TOTAL	431.50

NUMBER OF PLANTS 570

AV.Kg.per plant 0.76

AV.Kg.per Sq.m 2.27

MARYUT PROJECT

CANTALOUPE GALIA

DATE OF PLANTIHG	25.3.91	25.3.91

OPEN FIELD

DATE	GALIA 5	GALIA H-5
JUN-18	54.00	65.00
JUN-20	53.00	100.00
JUN-25	313.00	420.00
JUN-27	115.00	81.00
JUN-29	156.00	
TOTAL	691.00	666.00
NO.PLANT	1610	1035
AV. PLANT	0.43	0.64
AV.Kg.per PLANT	0.86	1.29
AV.Kg.PER 1 Sq.m	2.58	3.86

MARYUT PROJECT

MELONS GALIA

PLANTING DATE : 12/2/91

P/HOUSE	M-5	M-6
DATE		
MAY-11	33.00	44.50
MAY-13	42.00	115.00
MAY-15	243.00	376.00
MAY-20	170.00	242.00
MAY-22	262.00	160.00
MAY-24	100.00	154.00
MAY-29	127.00	54.00
JUN-03	38.00	9.50
JUN-06	32.00	11.00
JUN-11	13.00	14.50
TOTAL	1060.00	1180.50
NO. OF PLANTS	800	800
AV.Kg.PER PLANT	1.33	1.48
AV.Kg.PER 1 Sq.M	2.65	2.95

05-Jul-91

MARYUT PROJECT

CANTALOUPE

CULTIVAR : GALIA 5

PLANTING DATA : 18/4/91
P.HOUSE L-4

DATE	WEIGHT IN Kg.
JUN-11	57.00
JUN-23	150.00
JUN-25	218.00
JUN-27	228.00
JUN-29	340.00
TOTAL	993.00

NUMBER OF PLANTS 960

AV.Kg.per plant 1.03

AV.Kg.per Sq.m 3.10

MARYUT PROJECT

MELONS GALIA

PLANTING DATE - 19/12/90

P.HOUSE M-3

DATE	WEIGHT Kg.	NUMBER OF FRUITS
APR 19	35.00	77.00
APR 21	48.00	108.00
APR 23	27.00	56.00
APR 27	119.00	250.00
APR 29	103.00	200.00
MAY 01	90.00	170.00
MAY 05	179.00	260.00
MAY 06	98.00	176.00
MAY 08	130.00	224.00
MAY 11	230.00	370.00
MAY 13	205.00	190.00
MAY 15	115.00	174.00
MAY 18	92.00	140.00
MAY 22	63.00	96.00
TOTAL	1534.00	2491

AV.Kg.PER FRUIT 0.62

No.PLANTS 800

AV. Kg. PER PLANT 1.92

AV. Kg. 1 Sq.m 3.84

14/12/90

M-4

DATE	WEIGHT Kg.	NUMBER OF FRUITS
MAR-26	15.00	44.00
MAR-30	27.00	88.00
APR-01	50.00	173.00
APR 03	31.00	92.00
APR 07	80.00	125.00
APR 13	51.00	96.00
APR 19	8.00	37.00
APR 22	7.00	26.00
APR 27	16.00	54.00
MAY 13	40.00	60.00
MAY 15	48.00	66.00
MAY 18	69.00	107.00
MAY 22	38.00	54.00
TOTAL	480.00	1022

AV.Kg.PER FRUIT 0.47

No.PLANTS 800

AV. Kg. PER PLANT 0.60

AV. Kg. 1 Sq.m 1.20

M-7

05-Jul-91

MARYUT PROJECT

MELON GALIA

P.HOUSE M-8

DATE	REP-1	REP-2	REP-3	REP-4	REP-5	REP-6	REP-7	REP-8	REP-9	REP-10	REP-11	REP-12
MAY-11	0.75	3.50	1.00	1.50	2.00	0.00	1.25	1.00	4.10	1.50	0.75	0.00
MAY-13	3.00	6.50	3.00	2.75	6.00	0.00	4.25	2.50	5.75	3.50	2.50	2.50
MAY-18	9.00	23.00	33.00	27.00	16.00	16.00	9.00	26.00	16.00	39.00	29.00	17.00
MAY-20	16.50	27.00	26.00	13.50	20.00	21.00	11.00	15.50	20.50	11.50	29.00	13.50
MAY-22	18.50	9.50	18.50	15.00	11.00	10.50	7.50	11.50	16.00	16.00	18.00	23.00
MAY-24	7.00	10.00	13.50	26.50	9.00	12.00	28.00	3.00	13.00	16.50	10.50	4.00
MAY-28	3.00	3.00	5.00	4.00	4.00	4.00	1.50	15.00	2.00	9.00	3.00	2.00
JUN-03	0.00	6.00	0.00	4.50	3.50	1.50	8.50	3.00	3.00	5.50	4.00	3.50
JUN-06	5.50	8.00	8.00	2.00	4.00	1.00	11.00	8.00	7.00	6.00	7.00	7.00
JUN-11	6.00	11.00	11.50	10.50	6.00	19.00	3.00	4.00	3.00	6.00	3.50	1.50
TOTAL	69.25	107.50	119.50	107.25	81.50	85.00	85.00	89.50	90.35	114.50	107.25	74.00
No.PLANTS	66	66	66	66	66	66	66	66	66	66	66	66
AV.Kg.per PLANT	1.05	1.63	1.81	1.63	1.23	1.29	1.29	1.36	1.37	1.73	1.63	1.12
AV.Kg.per 1 Sq.m	2.10	3.26	3.62	3.25	2.47	2.58	2.58	2.71	2.74	3.47	3.25	2.24

M-6

05-Jul-91

MARYUT PROJECT

MELON GALIA

P.HOUSE M-7 MANURE EXPERIMENT

DATE	REP-1	REP-2	REP-3	REP-4	REP-5	REP-6	REP-7	REP-8	REP-9	REP-10	REP-11	REP-12
MAY-11	9.25	1.25	14.00	8.00	2.50	22.00	20.00	16.00	15.00	3.00	3.00	2.00
MAY-13	15.50	101.50	9.50	10.00	13.50	4.50	20.00	18.00	7.50	8.00	2.50	11.50
MAY-18	17.00	35.00	40.00	38.00	46.00	37.00	27.00	28.00	28.00	28.00	17.00	16.00
MAY-20	12.50	13.00	13.00	5.50	10.00	5.50	16.00	10.50	15.50	18.50	21.50	11.50
MAY-22	4.00	8.50	2.50	6.00	6.00	4.50	3.50	6.00	10.50	16.50	14.50	18.50
MAY-24	7.50	3.00	4.00	7.50	8.00	1.50	7.50	18.00	7.50	6.50	11.50	9.50
MAY-28	1.00	0.00	0.00	3.00	4.00	5.00	1.00	1.50	2.50	2.00	3.00	2.00
JUN-03	1.50	2.00	2.00	2.00	2.00	1.50	1.50	4.50	1.50	3.50	0.25	3.50
JUN-06	1.50	2.00	3.00	3.00	1.00	0.50	0.50	1.00	0.00	1.50	1.00	1.50
JUN-11	2.00	1.00	2.00	5.00	0.50	2.50	2.00	1.00	1.00	1.50	2.00	2.00
TOTAL	71.75	167.25	90.00	88.00	93.50	84.50	99.00	104.50	89.00	89.00	76.25	78.00
No.PLANTS	66	66	66	66	66	66	66	66	66	66	66	66
AV.Kg.per PLANT	1.09	2.53	1.36	1.33	1.42	1.28	1.50	1.58	1.35	1.35	1.16	1.18
AV.Kg.per 1 Sq.m	2.17	5.07	2.73	2.67	2.83	2.56	3.00	3.17	2.70	2.70	2.31	2.36

MARYUT PROJECT

CANTALOUPE

CALTIVAR : GALIA 5

PLANTING DATE : 25/2/91

P.HOUSE S-13

DATE	WEIGHT IN Kg.
MAY-21	15.00
MAY-25	22.00
MAY-28	84.00
MAY-30	33.50
JUN-06	130.00
JUN-08	126.00
JUN-26	60.00
TOTAL	470.50

NUMBER OF PLANTS 570

AV.Kg.per plant 0.83

AV.Kg.per Sq.m 2.48

05-Jul-91

MARYUT PROJECT

CANTALOUPE

CALTIVAR : GALIA 5

PLANTING DATE : 25/2/91

P.HOUSE S-15 SAND CULTRE

DATE	WEIGHT IN Kg.
MAY-21	7.50
MAY-25	12.00
MAY-28	42.00
MAY-30	36.00
JUN-06	80.00
JUN-08	54.00
JUN-26	200.00
TOTAL	431.50

NUMBER OF PLANTS 570

AV.Kg.per plant 0.76

AV.Kg.per Sq.m 2.27

05-Jul-91

MARYUT PROJECT

CANTALOUPE GALIA

DATE OF PLANTING	25.3.91	25.3.91

OPEN FIELD

DATE	GALIA 5	GALIA H-5
JUN-18	54.00	65.00
JUN-20	53.00	100.00
JUN-25	313.00	420.00
JUN-27	115.00	81.00
JUN-29	156.00	
TOTAL	691.00	666.00
NO.PLANT	1610	1035
AV. PLANT	0.43	0.64
AV.Kg.per PLANT	0.86	1.29
AV.Kg.PER 1 Sq.m	2.58	3.86

MARYUT PROJECT

MELONS GALIA

PLANTING DATE : 12/2/91

P/HOUSE	M-5	M-6
DATE		
MAY-11	33.00	44.50
MAY-13	42.00	115.00
MAY-15	243.00	376.00
MAY-20	170.00	242.00
MAY-22	262.00	160.00
MAY-24	100.00	154.00
MAY-29	127.00	54.00
JUN-03	38.00	9.50
JUN-06	32.00	11.00
JUN-11	13.00	14.50
TOTAL	1060.00	1180.50
NO. OF PLANTS	800	800
AV.Kg.PER PLANT	1.33	1.48
AV.Kg.PER 1 Sq.m	2.65	2.95

05-Jul-91

MARYUT PROJECT

CANTALOUPE

CULTIVAR : GALIA 5

PLANTING DATA : 18/4/91
P.HOUSE L-4

DATE	WEIGHT IN Kg.
JUN-11	57.00
JUN-23	150.00
JUN-25	218.00
JUN-27	228.00
JUN-29	340.00
TOTAL	993.00

NUMBER OF PLANTS 960

AV.Kg.per plant 1.03

AV.Kg.per Sq.m 3.10

APPENDIX D

EGGPLANT

05-Jul-91

MARYUT PROJECT

HARVESTING DATA EGGPLANTS

P.HOUSE L-5 PLANTING DATE : 12/9/90

DATE	EDNA	XP-1726	XP1474	XP183	XP131	F.M	OTHELO	L.VIOLET
NOV-08	0.50	0.75	0.50	0.50	0.50	0.75	2.75	0.75
NOV-11	0.25	0.75	0.25	1.25		0.25	0.75	0.50
NOV 22	1.50	1.50	0.50	0.75	1.00	2.00	1.50	0.75
NOV 29	1.25	2.25	0.50	5.00	8.00	1.50	3.75	2.00
DEC 06	1.75	1.25	0.50	4.75	2.75	0.75	0.75	5.50
DEC 22	0.75	2.50	2.25	13.00	6.00	6.00	2.00	10.00
JAN 08	6.00	5.50	6.00	14.75	3.25	3.50	3.50	7.75
JAN 26	5.00	2.50	1.75	1.00	8.75	1.25	1.00	0.75
FEB 12	10.00	9.50	5.50	6.00	5.00	3.50	2.00	6.50
FEB 23	17.00	15.00	7.00	9.00	7.00	5.00	3.00	10.00
MAY 05	1.00	3.00	7.50	9.00	8.00	11.00	10.00	6.00
MAY 27	4.00	4.50	14.00	15.00	13.00	10.50	15.00	8.00
JUN 06	4.50	6.00	4.75	9.50	4.25	7.50	4.00	2.00
JUN 12	10.00	6.50	7.50	7.00	3.75	8.00	7.50	5.00
TOTAL	63.50	61.50	58.50	96.50	71.25	61.50	57.50	65.50
No.PLANTS	114	79	119	118	62	87	115	114
AV.Kg.PER PLANT	0.56	0.78	0.49	0.82	1.15	0.71	0.50	0.57
AV.KG.PER 1 Sq.m	1.11	1.56	0.98	1.64	2.30	1.41	1.00	1.15

MARYUT PROJECT

EGGPLANTS

HOUSE S-5 PROUNING DATE : 27/7/90

DATE	CLASSIC	XP-1474	XP-139	XP-1726
SEP 09	16.50	4.50	6.50	2.00
SEP 29	45.00	17.00	16.00	3.50
OCT 07	62.00	17.00	16.00	1.00
OCT 16	64.00	19.00	17.00	6.00
OCT 23	20.50	10.00	8.00	8.50
NOV 01	12.00	3.50	8.50	
NOV 08	27.00	9.50	8.00	8.50
NOV 11	13.50	5.50	5.00	5.00
NOV 22	27.50	14.00	16.00	8.00
NOV 29	38.00	11.00	16.00	1.00
DEC 06	20.00	4.00	7.50	2.00
DEC 21	31.00	9.00	22.00	7.00
JAN 07	33.50	7.00	17.50	10.00
JAN 26	9.00	5.50	0.50	7.00
FEB 12	11.50	4.50	1.50	8.00
FEB 23	67.00	15.00	5.00	14.00
TOTAL	498.00	156.00	171.00	91.50
No.PLANTS	318	74	106	106
AV.Kg.PER PLANT	1.57	2.11	1.61	0.86
AV.Kg.PER 1 Sq.m	3.13	4.22	3.23	1.73

MARYUT PROJECT

EGGPLANTS OPEN FIELD PLANTING DATE: 15/9/90

HARVESTING DATA VARIETAL TEST

DATE	F.MARKET	XP-1474	OTHELLO	XP-131	EDNA	XP-183	MIX
NOV-08	0.00	0.00	0.00	5.00	0.75	4.75	30.50
NOV-17	4.75	0.75	0.00	10.75	2.25	14.00	41.00
NOV-24	2.00	2.50	7.00	11.50	3.00	30.00	55.50
DEC-06	37.25	7.25	9.00	41.50	0.00	52.00	106.00
DEC-14	46.00	14.00	31.00	40.00	5.00	30.00	0.00
DEC-24	44.00	12.50	25.50	36.00	6.00	0.00	82.00
DEC-27	7.00	0.00	33.00	11.00	0.00	27.00	359.00
JAN-03	5.00	0.00	5.00	13.00	0.00	24.00	0.00
JAN-14	98.00	23.00	82.00	52.00	8.00	45.00	69.00
FEB-03	28.00	3.00	33.00	20.50	3.00	32.00	3.00
TOTAL	272.00	63.00	225.50	241.25	26.00	256.75	746.00
NO.PLNT	218	40	195	195	13	344	345
AV.Kg.PER PLANT	1.25	1.58	1.16	1.24	2.15	0.75	2.16
AV.Kg.PER 1 Sq.m	2.50	3.15	2.31	2.47	4.31	1.50	4.32

05-Jul-91

MARYUT PROJECT

HARVESTING DATA EGGPLANTS

P.HOUSE L-5 PLANTING DATE : 12/9/90

DATE	EDNA	XP-1726	XP1474	XP183	XP131	F.M	OTHELO	L.VIOLET
NOV-08	0.50	0.75	0.50	0.50	0.50	0.75	2.75	0.75
NOV-11	0.25	0.75	0.25	1.25		0.25	0.75	0.50
NOV 22	1.50	1.50	0.50	0.75	1.00	2.00	1.50	0.75
NOV 29	1.25	2.25	0.50	5.00	8.00	1.50	3.75	2.00
DEC 06	1.75	1.25	0.50	4.75	2.75	0.75	0.75	5.50
DEC 22	0.75	2.50	2.25	13.00	6.00	6.00	2.00	10.00
JAN 08	6.00	5.50	6.00	14.75	3.25	3.50	3.50	7.75
JAN 26	5.00	2.50	1.75	1.00	8.75	1.25	1.00	0.75
FEB 12	10.00	9.50	5.50	6.00	5.00	3.50	2.00	6.50
FEB 23	17.00	15.00	7.00	9.00	7.00	5.00	3.00	10.00
MAY 05	1.00	3.00	7.50	9.00	8.00	11.00	10.00	6.00
MAY 27	4.00	4.50	14.00	15.00	13.00	10.50	15.00	8.00
JUN 06	4.50	6.00	4.75	9.50	4.25	7.50	4.00	2.00
JUN 12	10.00	6.50	7.50	7.00	3.75	8.00	7.50	5.00
TOTAL	63.50	61.50	58.50	96.50	71.25	61.50	57.50	65.50
No.PLANTS	114	79	119	118	62	87	115	114
AV.Kg.PER PLANT	0.56	0.78	0.49	0.82	1.15	0.71	0.50	0.57
AV.KG.PER 1 Sq.m	1.11	1.56	0.98	1.64	2.30	1.41	1.00	1.15

05-Jul-91

MARYUT PROJECT

EGGPLANTS

HOUSE S-5 PROUNING DATE : 27/7/90

DATE	CLASSIC	XP-1474	XP-139	XP-1726
SEP 09	16.50	4.50	6.50	2.00
SEP 29	45.00	17.00	16.00	3.50
OCT 07	62.00	17.00	16.00	1.00
OCT 16	64.00	19.00	17.00	6.00
OCT 23	20.50	10.00	8.00	8.50
NOV 01	12.00	3.50	8.50	
NOV 08	27.00	9.50	8.00	8.50
NOV 11	13.50	5.50	5.00	5.00
NOV 22	27.50	14.00	16.00	8.00
NOV 29	38.00	11.00	16.00	1.00
DEC 06	20.00	4.00	7.50	2.00
DEC 21	31.00	9.00	22.00	7.00
JAN 07	33.50	7.00	17.50	10.00
JAN 26	9.00	5.50	0.50	7.00
FEB 12	11.50	4.50	1.50	8.00
FEB 23	67.00	15.00	5.00	14.00
TOTAL	498.00	156.00	171.00	91.50
NO.PLANTS	318	74	106	106
AV.Kg.PER PLANT	1.57	2.11	1.61	0.86
AV.Kg.PER 1 Sq.m	3.13	4.22	3.23	1.73

APPENDIX E

PEPPER

MARYUT PROJECT

PEPPER MA'OR

PLANTING DATE: SEP-26-91

P.HOUSE L-8

DATE	
NOV-21	60.00
NOV-29	98.00
DEC-06	59.00
DEC-18	149.00
JAN-03	337.00
JAN-28	388.00
FEB-17	159.00
FEB-19	212.00
APR-01	146.00
MAY-06	807.00
MAY-21	650.00
JUN-10	522.00
JUN-30	388.00
TOTAL	3975.00

NO.OF PLANTS	1500
AV.Kg.PER PLANT	2.65
AV.Kg.PER Sq.m	7.95

05-Jul-91

MARYUT PROJECT

PEPPER

PLANTING DATE :26/9/90

HOUSE S-8 VARIETAL TEST

DATE	GEDEON	720	807	817	905	MA'OR	503	555	FA-23	GEDEON	MA'OR
NOV-21	4.20	2.60	2.80	4.80	3.00	4.00	0.00	3.00	0.00	0.70	0.80
NOV-29	9.40	5.30	2.95	9.15	6.15	7.05	0.00	5.85	0.00	11.00	6.00
DEC-06	8.05	3.25	3.90	6.15	4.80	5.80	0.00	5.25	0.00	6.00	6.10
DEC-18	29.05	11.70	7.60	7.50	13.85	10.15	14.30	16.90	13.10	6.00	15.00
JAN-08	20.75	15.50	10.00	9.00	13.75	10.25	0.00	7.00	0.00	28.50	25.00
JAN-28	13.00	10.75	3.25	8.75	6.25	6.75	0.00	7.75	2.00	6.00	28.00
FEB-16	28.50	8.00	9.50	13.00	8.00	13.50	20.50	9.00	20.50	17.00	11.50
MAR-31	21.75	7.05	8.50	11.75	8.25	12.25	7.50	3.05	4.50	3.50	25.00
APR-22	55.50	20.75	18.00	29.75	37.00	27.60	24.75	24.50	25.00	27.00	14.00
MAY-07	92.00	36.00	32.00	33.00	53.00	34.00	51.00	33.00	32.00	30.00	95.00
MAY-26	51.00	49.00	20.50	22.50	26.00	17.00	32.50	50.00	23.00	60.00	29.00
TOTAL	333.20	169.90	119.00	155.35	180.05	148.35	150.55	165.30	120.10	195.70	255.40
NO.OF PLANTS	126	72	54	72	72	72	72	72	54	170	170
AV.Kg.PER PLANT	2.64	2.36	2.20	2.16	2.50	2.06	2.09	2.30	2.22	1.15	1.50
AV.Kg.PER 1 Sq.m	7.93	7.08	6.61	6.47	7.50	6.18	6.27	6.89	6.67	3.45	4.51

05-Jul-91

MARYUT PROJECT

PEPPER

PLANTING DATE : 26 SEP 90

P.HOUSE S-9 VARIETAL TEST

DATE	736	622	633	7205	950	190	9785	9760	GEDEON	840	112	MA'OR	GEDEON
NOV-22	0.00	0.60	0.00	3.00	3.70	4.70	4.40	3.70	4.70	3.05	0.00	2.80	1.90
NOV-29	0.00	0.00	0.00	9.00	1.00	7.00	8.00	7.00	14.50	5.00	0.00	5.00	12.00
DEC-11	0.00	0.00	0.00	13.00	0.00	8.00	4.40	6.20	8.65	5.50	0.00	9.00	9.50
DEC-18	28.00	27.50	26.00	6.25	24.00	6.75	4.00	4.25	9.50	7.00	4.50	6.50	12.00
JAN-03	0.00	0.00	0.00	5.75	0.00	7.50	1.75	3.25	11.00	4.25	1.00	13.00	18.00
JAN-28	0.00	0.00	0.00	14.25	14.00	21.75	7.25	6.00	27.75	11.75	0.00	18.25	15.75
MAR-11	8.50	11.25	3.25	19.25	6.50	14.00	1.75	6.75	33.75	7.00	5.75	35.00	48.00
APR-01	7.85	5.15	1.05	14.10	7.00	2.95	6.00	7.00	9.75	4.25	2.00	11.00	4.00
APR-24	19.00	24.25	5.25	36.25	22.00	21.00	19.00	19.50	37.50	16.75	9.50	33.00	38.00
MAY-08	30.00	17.00	10.50	43.00	39.00	38.50	21.00	14.00	39.00	17.00	2.00	40.00	19.00
MAY-18	9.00	0.20	4.75	3.75	6.25	0.50	0.25	3.00	3.25	2.25	0.00	1.00	1.25
MAY28	20.50	29.00	18.00	34.00	14.50	13.00	6.00	15.50	32.00	9.00	8.00	38.00	40.00
JUN-12	11.00	11.50	12.00	12.50	4.50	6.00	9.50	5.00	12.00	4.50	6.00	13.00	13.00
TOTAL	133.85	126.45	80.80	214.10	142.45	151.65	93.30	101.15	243.35	97.30	38.75	225.55	232.40
NO.OF PLANTS	72	72	54	72	72	72	54	54	90	36	18	170	170
AV.Kg.per PLANT	1.86	1.76	1.50	2.97	1.98	2.11	1.73	1.87	2.70	2.70	2.15	1.33	1.37
AV.Kg.per 1 Sq.m	5.58	5.27	4.49	8.92	5.94	6.32	5.18	5.62	8.11	8.11	6.46	3.98	4.10

APPENDIX F

FERTIGATION

MARYUT PROJECT

FERTIGATION DATA

L-16

WEEK	WATER m3	19-19-19 Kg	19-6-20 Kg	15-5-30 Kg	PHOSPHORI ACID	NITRATE ACID	Fe	micro element	POTASSIUM	HO3
1	40.000									
2	4.500	2.250								
3	6.000	3.000			0.600			0.025		
4	6.000	3.000			0.600					
5	9.000			2.000				0.050		
6	12.000		3.000	2.000			0.050	0.100	0.100	
7	12.000		3.000				0.050	0.050	0.100	
8	12.000		6.000				0.100	0.100	0.200	
9	12.000		3.000				0.100			
10	12.000		6.000		1.000				0.300	
11	10.000		6.000				0.100			
12	8.000		6.000						0.600	
13	8.000		3.000		0.500					
14	8.000		6.000			0.150	0.025		0.600	
15	8.000		6.000		1.000		0.050			
16	8.000		6.000		0.500		0.100			
17	7.000		6.000		0.500				0.600	
18	10.000		6.000		1.000					
19	8.000		3.000		0.500					
20	8.000		6.000		0.500		0.100			
21	8.000		3.000	3.000		0.200	0.100	0.075		
22	10.000		4.500	3.000	1.100			0.025		
23	10.000			7.500	1.100			0.050		
24	7.000			6.000	1.000			0.050		
25	6.000			6.000	1.000			0.025		
26	6.000			6.000				0.500		1.000
27	6.000									1.000
28	6.000									2.000
29	6.000			4.000	0.600			0.025		1.000
30	6.000			6.000	0.800					
31	7.000			7.000	0.700					
32	7.000			7.000						
33	7.000									
34										
TOTAL	300.500	8.250	82.500	59.500	13.000	0.350	0.775	1.075	2.500	5.000
" N "		1.568	15.675	8.925						1.800
										27.968

06-Jul-91

MARYUT PROJECT

FERTIGATION DATA

S-10

WEEK	WATER m3	19-19-19 Kg	19-6-20 Kg	15-5-30 Kg	PHOSPH. ACID	Fe	micro element	POTASSIUM	NO3
1	15.000								
2	4.500	1.750				0.050			
3	4.500	1.750			0.125				
4	4.500		1.250		0.050				
5	4.500	1.000			0.050				
6	3.000	0.750	0.750		0.050		0.013		
7	3.500	0.750		0.600			0.013		
8	3.000		1.500				0.025	0.050	2.000
9	1.500		0.750				0.013	0.050	
10	1.500		0.750				0.013	0.050	2.000
11	3.000		0.750						
12	3.000								
TOTAL	51.500	6.000	5.750	0.600	0.275	0.050	0.075	0.150	4.000
" N "		1.140	1.090	0.090					2.320

MARYUT PROJECT

FERTIGATION DATA

L-9

WEEK	WATER m3	19-19-19 Kg	19-6-20 Kg	15-5-30 Kg	PHOSPHORI ACID	NITRATE ACID	Fe	micro element	POTASSIUM	HO3
1	30.000									
2	9.000	3.500					0.100			
3	9.000	3.000			0.250					
4	9.000		2.500		0.100					
5	9.000	2.000			0.100					
6	6.000	1.500	1.500		0.100			0.025		
7	7.000	1.500		1.200				0.025		
8	6.000		3.000					0.050		
9	3.000		1.500					0.025	0.100	2.000
10	3.000		1.500					0.025	0.100	
11	6.000		1.500						0.100	2.000
12	6.000									
TOTAL	103.000	11.500	11.500	1.200	0.550	0.000	0.100	0.150	0.300	4.000
" N "		2.185	2.185	0.180						1.440 5.990

L-8

WEEK	WATER m3	19-19-19 Kg	19-6-20 Kg	15-5-30 Kg	PHOSPHORI ACID	NITRATE ACID	Fe	micro element	POTASSIUM	NO3
1	15.000									
2	3.000	3.000			0.300		0.075			
3	3.000	1.125			0.150					
4	3.000	1.800			0.150					
5	3.000	0.750			0.150					
6	3.000	0.750	1.050							
7	3.000	0.750			0.050					
8	3.000	1.000			0.100					
9	3.000	1.500			0.100					
10	3.000		1.500							
11	3.000		0.750							
12	4.000		1.500						0.100	
13	4.000		1.500		0.500					
14	4.000		1.500		0.150	0.150	0.025		0.100	
15	4.000		1.500				0.050			
16	4.000		1.500						0.300	
17	2.000		1.500							
18	1.000		0.750							
19	2.000		1.750		0.150					
20	2.000		0.750		0.150					
21	5.000		2.250					0.075	0.300	
22	3.000		1.500					0.025	0.300	
23	3.000		1.750					0.050		
24	4.000		2.250					0.050		
25	2.000		1.000		0.150			0.025		
26	3.000		2.250					0.500		
27	3.000		1.750		0.300					
28	3.000			2.000	0.500					1.000
29	3.000			2.000	0.250			0.025		
30	3.000		1.000		0.250					
31	3.000		1.000							
32	4.000			1.750	0.500					0.750
33	4.000			3.500	0.350					
34				1.500	0.300					
TOTAL	115.000	10.675	31.300	10.750	4.550	0.150	0.150	0.750	1.100	1.750
" N "		2.028	5.947	1.613						0.630
										10.218

MARYUT PROJECT

FERTIGATION DATA

S-8

WEEK	WATER m3	19-19-19 Kg	19-6-20 Kg	15-5-30 Kg	PHOSPHORI ACID	NITRATE ACID	Fe	micro element	POTASSIUM	HO3
1	15.000									
2	3.000	3.000			0.300		0.075			
3	3.000	1.125			0.150					
4	3.000	1.800			0.150					
5	3.000	0.750			0.150					
6	3.000	0.750	1.050							
7	3.000	0.750			0.050					
8	3.000	1.000			0.100					
9	3.000	1.500			0.100					
10	3.000		1.500							
11	3.000		0.750							
12	4.000		1.500						0.100	
13	4.000		1.500		0.500					
14	4.000		1.500		0.150	0.150	0.025		0.100	
15	4.000		1.500				0.050			
16	4.000		1.500						0.300	
17	2.000		1.500							
18	1.000		0.750							
19	2.000		1.750		0.150					
20	2.000		0.750		0.150					
21	5.000		2.250					0.075	0.300	
22	3.000		1.500					0.025	0.300	
23	3.000		1.750					0.050		
24	4.000		2.250					0.050		
25	2.000		2.000		0.150			0.025		
26	3.000		2.250					0.500		
27	3.000		1.750		0.300					
28	3.000			2.000	0.500					1.000
29	3.000			2.000	0.250			0.025		
30	3.000		1.000		0.250					
31	3.000		1.000							
32	4.000			1.750	0.500					0.750
33	4.000			3.500	0.350					
34				1.500	0.300					
TOTAL	115.000	10.675	31.300	10.750	4.550	0.150	0.150	0.750	1.100	1.750
- N -		2.028	5.947	1.613						0.610
TOTAL "N"										10.218

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MARYUT PROJECT

FERTIGATION DATA

L-5

WEEK	WATER m3	19-19-19 Kg	19-6-20 Kg	15-5-30 Kg	PHOSPHORI ACID	NITRATE ACID	Fe	micro element	POTASSIUM	NO3
1	30.000									
2	5.000	2.500			0.100					
3	7.000	2.500			0.100					
4	6.000	3.750			0.300		0.100			
5	6.000	4.500			0.150		0.100			
6	6.000	2.500			0.100					
7	6.000	2.500			0.150					
8	9.000	4.000			0.200					
9	6.000	1.500			0.100					
10	6.000	1.500	1.000		0.150					
11	6.000		1.200	1.500	0.200	1.500				
12	6.000		2.500							
13	6.000	1.500	1.500							
14	6.000		3.000						0.200	
15	6.000		3.000						0.200	
16	3.000								0.300	2.000
17										2.000
18	3.000		1.500		0.300				0.100	2.000
19	3.000				0.500					1.000
20	8.000				0.500				0.500	2.000
21	7.000		3.000		0.300					1.000
22	7.000		3.000						0.500	
23	6.000		3.000		0.500				0.300	
24	6.000		3.000		0.500					
25	6.000									
26	6.000									
TOTAL	166.000	26.750	25.700	1.500	4.150	1.500	0.200	0.000	2.100	10.000
" N "		5.083	4.883	0.225						3.600
										13.791

FERTIGATION DATA

S-2

WEEK	WATER m3	19-19-19 Kg	19-6-20 Kg	15-5-30 Kg	PHOSPHORI ACID	NITRATE ACID	Fe	micro element	POTASSIUM	NO3
1	10.000									
2	3.000	1.500			0.100					
3	4.000	1.750			0.175		0.050			
4	3.000	2.000			0.150		0.100			
5	3.000	1.500			0.050					
6	3.000	0.900			0.050		0.025		0.050	
7	3.000	0.900			0.050					
8	3.000	1.250			0.050		0.025			
9	3.000	1.500			0.050			0.015		
10	3.000	0.750		0.750				0.025		
11	3.000			1.500				0.025		
12	3.000			0.900	0.050					
13	3.000			1.500				0.025		
14	3.000		1.500				0.025	0.025	0.050	
15	3.000		0.750				0.013	0.015		
16	1.500		0.750			0.150	0.050		0.100	
17	3.000		1.500				0.065			
18	1.500		0.750				0.050			
19	1.500		0.750							
20	3.000		1.500				0.050	0.050		
21	3.000		1.500				0.050	0.050		
22	3.000		1.500					0.035	0.100	
23	3.000	1.500	0.750						0.100	
24	3.000	1.500							0.100	
25	4.000	1.500	1.500					0.050	0.050	
26	4.000	1.500	1.500		0.150			0.250		1.000
27	4.000	1.500								
28	4.000	1.500						0.025		
29	4.000	3.000			0.250				0.050	0.500
30	4.000	1.500		1.500	0.500					0.500
31	4.000	1.500								0.500
32	5.000	2.000		1.500	0.250		0.050			0.500
33										
34										
TOTAL	108.500	29.050	14.250	7.650	1.875	0.150	0.553	0.590	0.600	3.000
" N "		5.520	2707	1.148						1.080
TOTAL "N"										10.1455

FERTIGATION DATA

L-2

WEEK	WATER m3	19-19-19 Kg	19-6-20 Kg	15-5-30 Kg	PHOSPHORI ACID	NITRATE ACID	Fe	micro element	POTASSIUM	HO3
1	30.000									
2	6.000	3.000			0.200					
3	8.000	3.500			0.350		0.100			
4	6.000	3.750			0.300		0.200			
5	6.000	2.250			0.100					
6	6.000	1.800			0.100		0.050		0.100	
7	6.000	1.800			0.100					
8	6.000	2.500			0.100		0.050			
9	6.000	3.000			0.100			0.025		
10	6.000	1.500		1.500				0.050		
11	6.000			3.000				0.050		
12	5.000			1.800	0.100					
13	6.000			2.750				0.050		
14	7.000		3				0.050	0.050	0.100	
15	6.000		1.500				0.025	0.025		
16	3.000		1.500			0.300	0.100		0.100	
17	6.000		3.000				0.125			
18	3.000		1.500				0.100			
19	3.000									
20	6.000		3.000				0.100	0.100		
21	6.000		3.000				0.100	0.100		
22	6.000		3.000					0.075	0.200	
23	6.000	3.000	1.500						0.200	
24	6.000	3.000							0.200	
25	8.000	3.000	3.000					0.100		
26	8.000	3.000	3.000		0.300			0.050		
27	8.000	3.000								1.000
28	8.000	3.000						0.050		1.000
29	8.000	6.000			0.500				0.100	0.500
30	8.000	3.000		3.000	1.000					1.000
31	8.000	3.000						0.100		1.000
32	10.000	4.000		3.000	0.500		0.100			1.000
33										
34										
TOTAL	227.000	57.100	25.500	15.050	3.750	0.300	1.100	0.825	1.000	5.500
N		10.849	4.845	2.258						1.980
										19.932

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MARYUT PROJECT

FERTIGATION DATA

M-2

WEEK	WATER m3	19-19-19 Kg	15-5-30 Kg	PHOSPHORIC ACID	micro element	POTASSIUM	NO3
1	24.000						
2	3.000	1.500					
3	3.000	1.750					
4	3.000	1.500		0.400			
5	3.000	1.500		0.400			
6	3.000	1.750		0.400			
7	4.000	2.000		0.400			
8	6.000	3.000		0.500			
9	6.000	3.000		0.500			
10	6.000	3.000		0.500			
11	6.000	3.000		0.600			
12	6.000	3.000	3.000	0.600			
13	6.000		3.000	0.600			
14	6.000		3.000		0.025		
15	6.000		3.000	0.600			
16	6.000		3.000	0.300			2.000
17	6.000		3.000	0.300			2.000
18	6.000		3.000	0.700			2.000
19	6.000		1.500	0.400			1.000
20	6.000		3.000	0.800			2.000
21	6.000		4.000	0.800			1.000
22	6.000		4.500	0.900			
23	8.000		6.000	1.200			
24	7.000		6.500	0.800			
25	7.000	3.000	3.000	0.300			
TOTAL	155.000	28.000	49.500	12.000	0.025	0.000	10.000
" N "		5.320	7.425				3.600
TOTAL "N"							16.345

MARYUT PROJECT

FERTIGATION DATA

M-8

WEEK	WATER m3	19-19-19 kg	19-6-20 kg	15-5-31 kg	PHOSPH ACID
1	20.000				
2	2.000	1.000			
3	2.000	1.250			0.
4	3.000	1.750			0.
5	4.000	2.000			
6	4.000	1.200	1.200		0.
7	4.000		2.400		0.
8	4.000		3.000		0.
9	4.000		1.500	1.500	0.
10	4.000			1.500	0.
11	4.000			3.000	0.
12	4.000			4.000	0.
13	6.000			4.500	1.
14	6.000			4.500	0.
15	7.000			6.000	0.
16	7.000	2.000		5.000	0.
17	7.000	3.000		4.000	0.
18	7.000	5.000			
TOTAL	59.000	7.200	8.100	10.000	4.
" N " TOTAL "N"		1.368	1.539	1.500	

TABLE-C2

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MARYUT PROJECT

FERTIGATION DATA

L-11 L-12 L-13 IRRIGATION DEPTH EXPERIMENT

WEEK	WATER m3	19-19-19 Kg	19-6-20 Kg	15-5-30 Kg	PHOSPH. ACID	Fe	micro element	NO3
1	30.000							
2	20.000							
3	6.000							
4	6.000	3.000						1.000
5	6.000	3.000	1.500	1.500	0.300			2.000
6	6.000			3.000	0.300	0.050	0.025	2.000
7	6.000			1.500	0.300			
8	6.000			3.000	0.600			2.000
9	6.000			3.000	0.600			2.000
10	6.000			3.000	0.600		0.050	2.000
11	6.000		1.500	1.500	0.600			
12	6.000		3.000		0.600			
13	6.000			6.000	0.400	0.050		
14	6.000			5.000		0.025		
15	7.000	5.000		2.000	0.600	0.050		
16	7.000	7.000						
17	7.000	7.000						
18	7.000	5.000						
TOTAL	110.000	6.000	6.000	16.500	3.900	0.050	0.075	11.000
" N "		1.140	.140	2.475				3.960
TOTAL "N"								8.715