EVALUATING

SEA-CROP®

by AMBROSIA TECHNOLOGY LLC

At Experimental GREENHOUSE

On ZUCCHINI

SEA-CROP in Zucchini Grown in Soilless Experimental Design

❖Zucchini crop grown under greenhouse

- Cultivar of Zucchini: *Apus*(dark green)
- Substrate used: Bags of Coco Peat
- Date of planting: 13 December 2007
- Planting density: 1 plant per bag

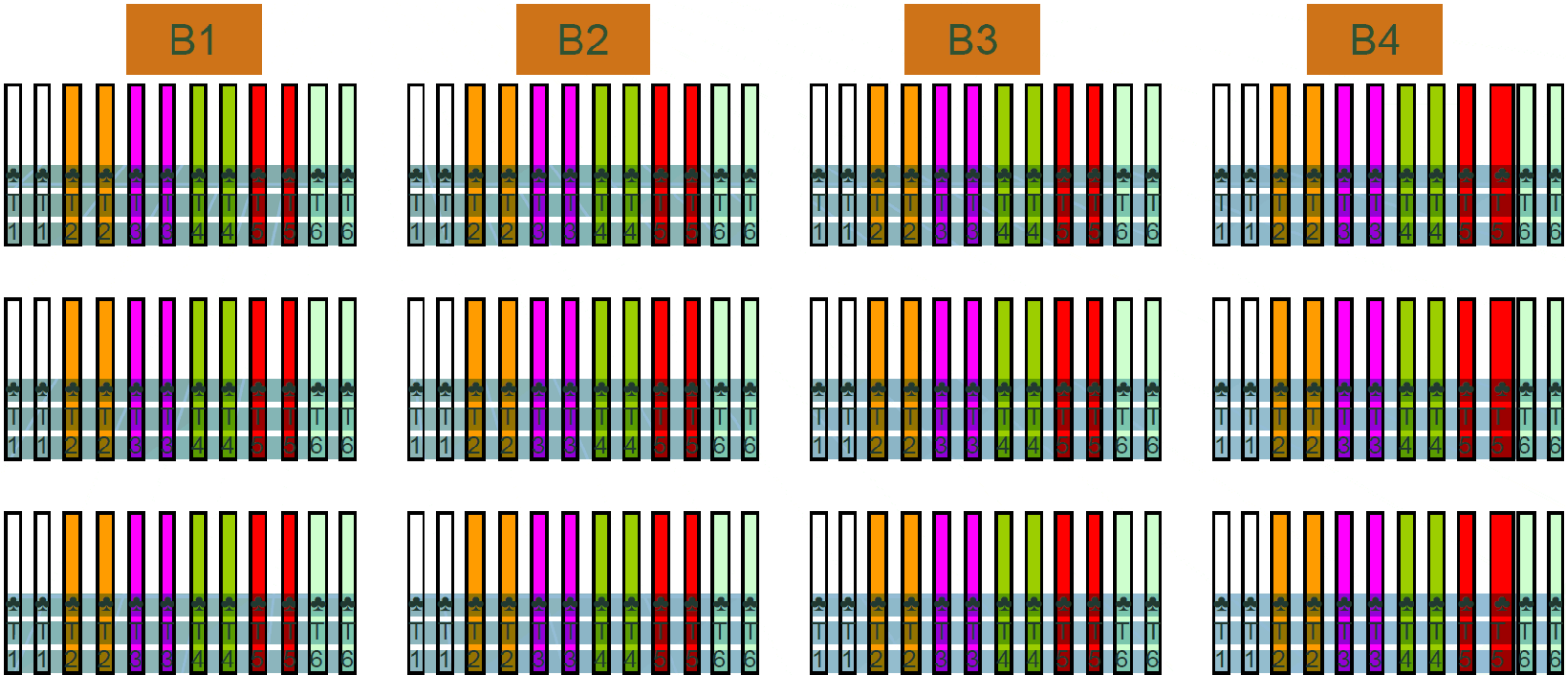
❖Treatments evaluated

- T1: Negative control
- T2: SEA-CROP applied once as Drench (0.15%)
- T3: SEA-CROP applied once as Drench (0.30%)
- T4: SEA-CROP applied twice as Drench (0.30%) (6 weeks apart)
- T5: SEA-CROP applied once as Foliar (1%)
- T6: SEA-CROP applied twice as Foliar (1%) (6 weeks apart)

❖Experimental Design

- CRBD
- 4 Replicates per treatment
- 1 Replicate = 5 plants

SEA-CROP in Zucchini Grown in Soilless Experimental Design



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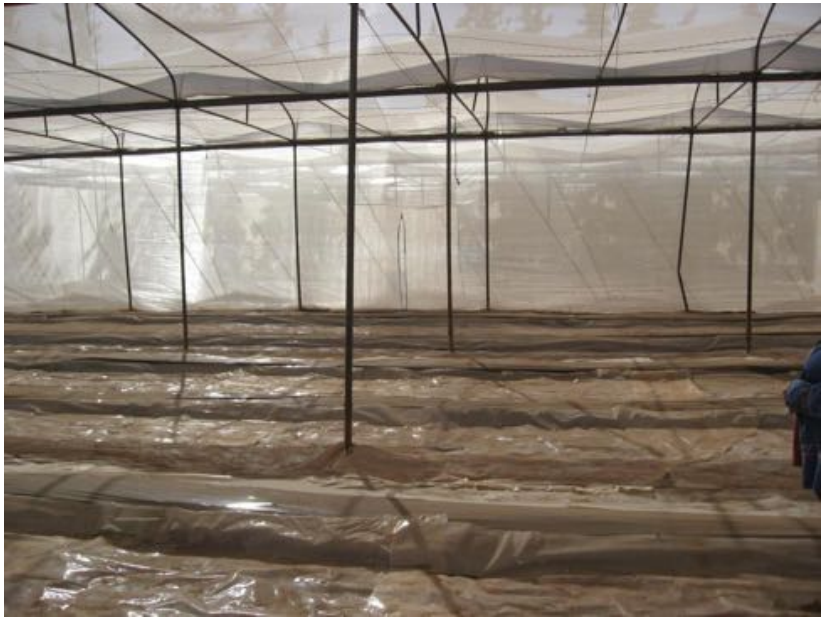
Planting the Crop

Plantlets from Nursery

The Set Up

Preparing the two Greenhouses
November 2007

Soilless Greenhouse
NEW Coco Peat Bags



Soil Greenhouse

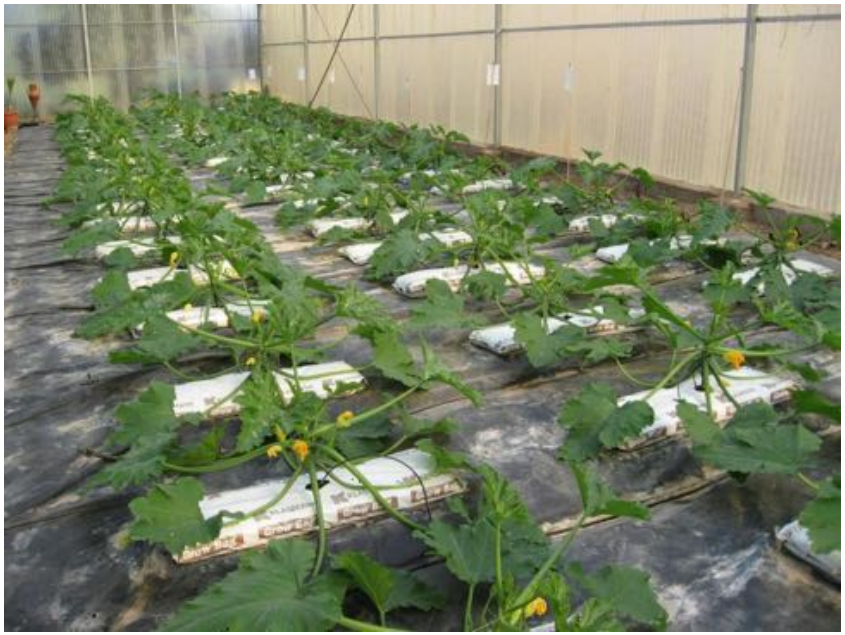
Zucchini in Soilless
9 January 2008

1 Replicate= 6 Plants

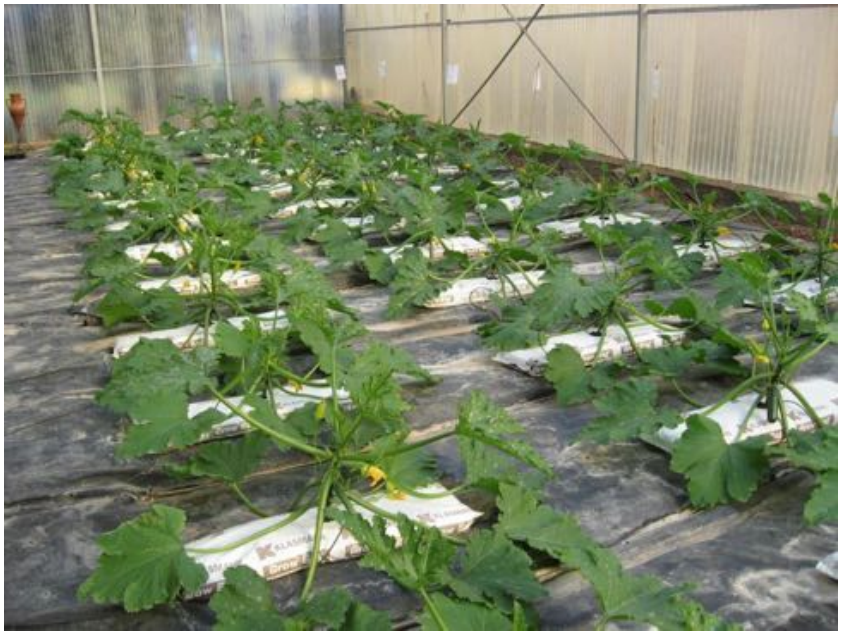
1 Treatment= 24

Zucchini in Soilless
21 January 2008

Introduction of Bumble Bees for Pollination



One hive of bumble bees every 6 weeks



Zucchini in Soilless
25 January 2008

Bumble Bee in action

Bumble Bee's Hive

SEA-CROP in Zucchini Grown in SOIL
Experimental Design

Zucchini crop grown under greenhouse

- Cultivar of Zucchini: *Apus* (Dark green)
- Date of planting: 28 November 2007
- Planting density: 1 plant per bag

Treatments evaluated

- T1: Negative control
- T2: SEA-CROP applied once as Drench (0.15%)
- T3: SEA-CROP applied once as Drench (0.30%)
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Experimental Design

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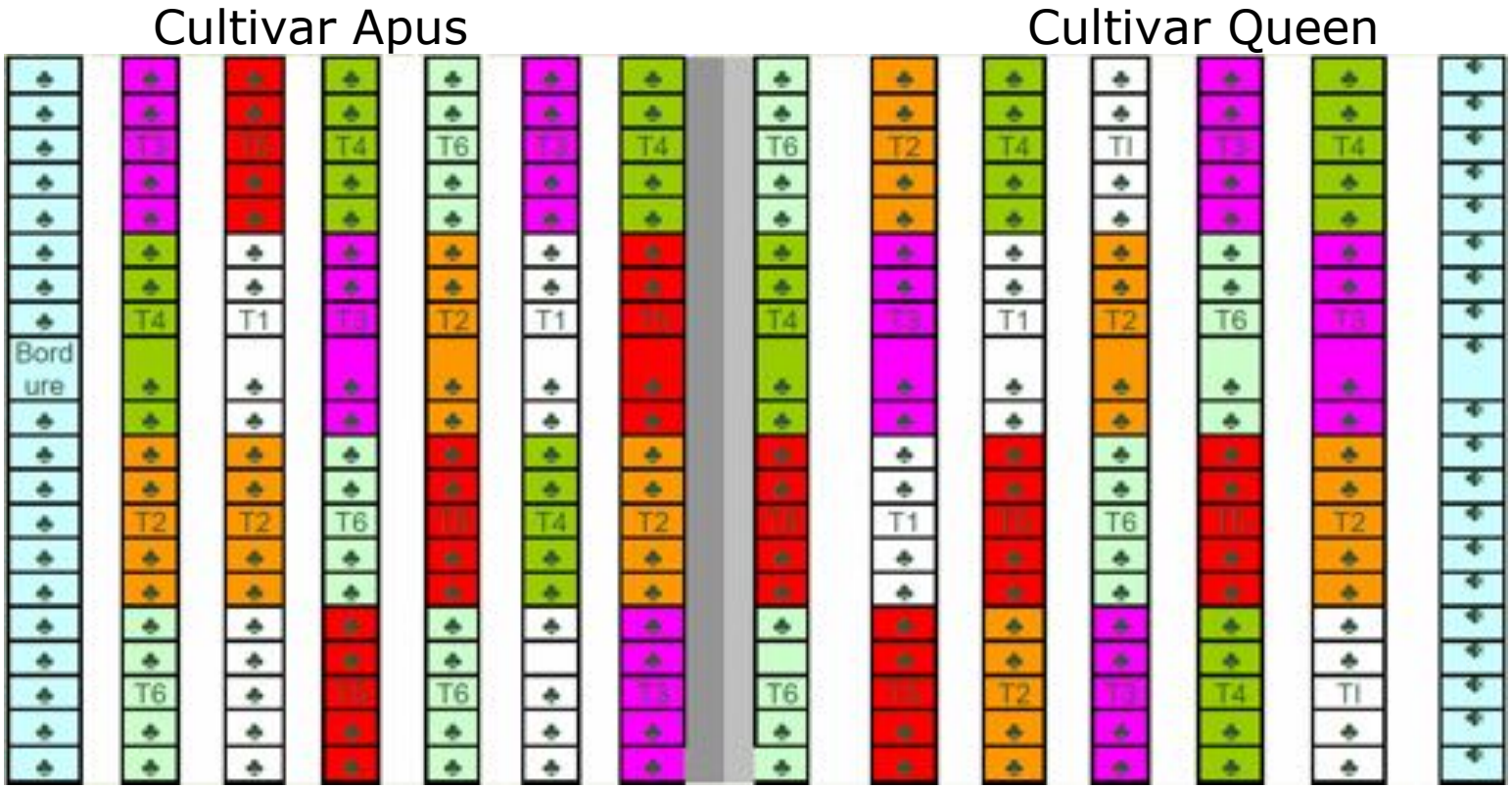
SEA-CROP in Zucchini Grown in SOIL Experimental Design



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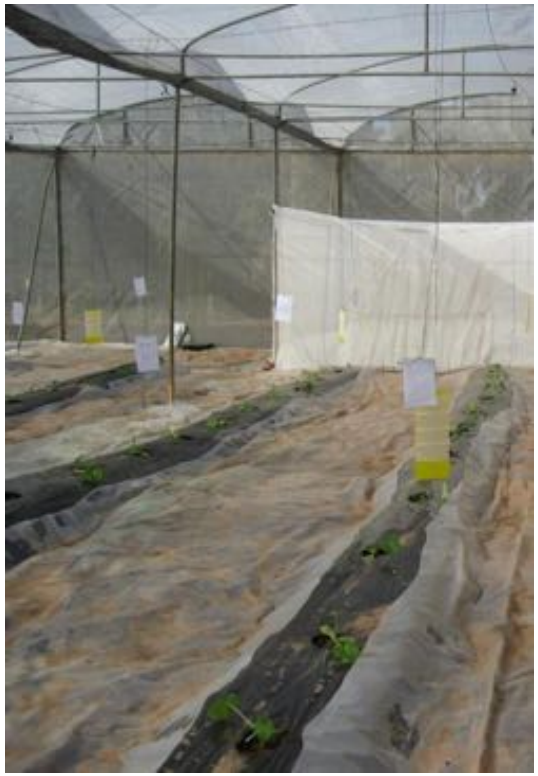
SEA-CROP in Zucchini Grown in SOIL
Experimental Greenhouse

New Insect Net Installed

Soil Greenhouse Preparation

SEA-CROP in Zucchini Grown in SOIL
Experimental Design

Planting the Crop in soil



Planting density 1 m on row;
2 m between rows

SEA-CROP in Zucchini Grown in SOIL
21 January 2008

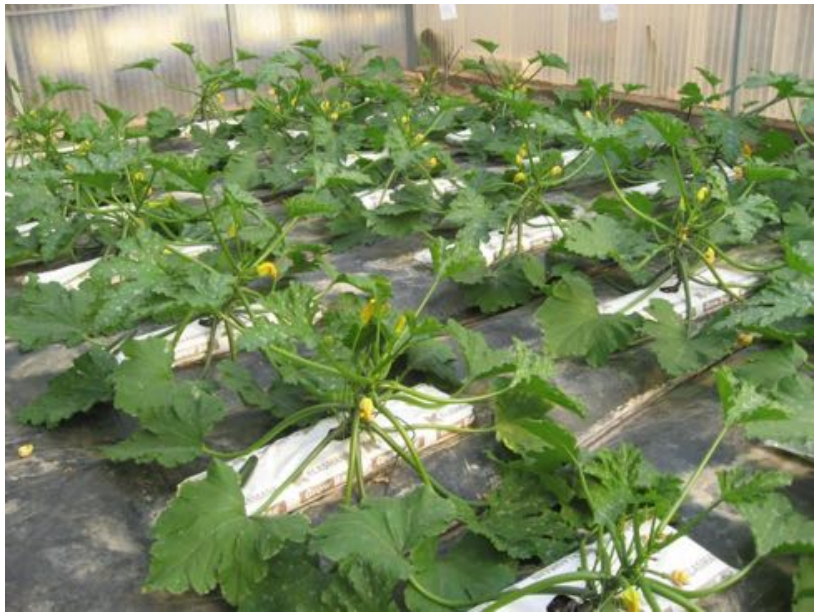
Leaf Measure: Length and Width

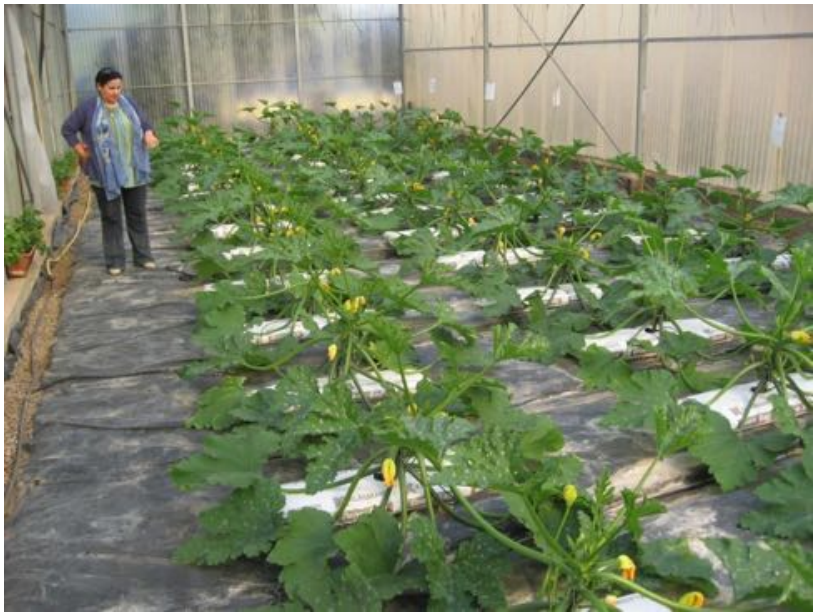
SEA-CROP in Zucchini Grown in SOIL
21 January 2008

Leaf Measure

SEA-CROP in Zucchini Grown in SOILLESS
26 January 2008

SEA-CROP Impact on Leaf Size





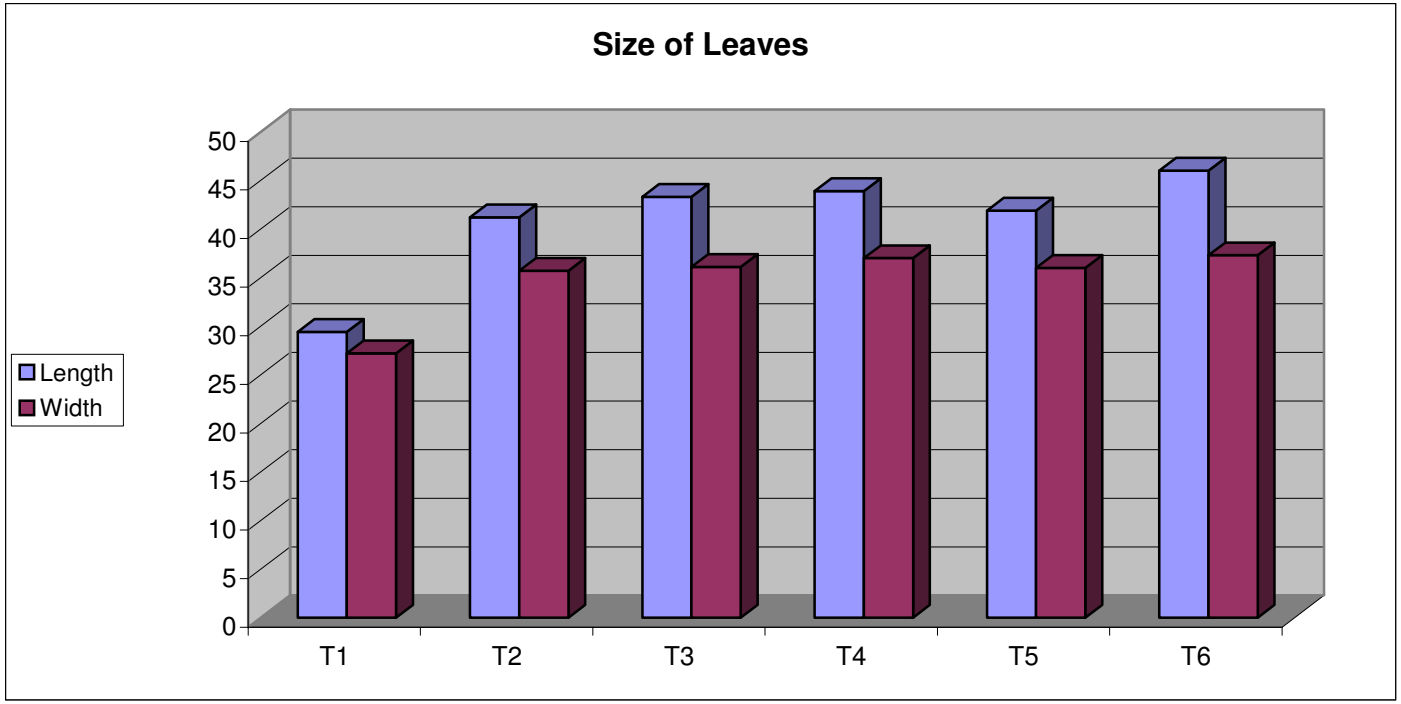
Impact of SEA-CROP on leaf size of Zucchini(cv. Apus) grown in soilless

Length (l) and width (L) in cm of Leaves of Zucchini (cv. Apus) grown in Soilless

Treatment	T1		T2		T3		T4		T5		T6	
Replicate	L	l	L	l	L	l	L	l	L	l	L	l
1	24	26	33	37	34	40	32	43	34	37	34	44
2	24	29	37	48	35	41	38	47	39	47	32	43
3	24	28	35	40	36	44	35	41	37	46	38	48
4	27	33	37	40	37	40	37	49	36	41	35	48
5	24	29	38	50	35	44	38	47	41	47	36	46
1	25	32	37	46	38	41	38	46	22	25	38	48
2	27	34	36	45	37	39	39	45	37	49	38	47
3	27	28	34	40	35	40	38	39	39	44	41	48
4	27	34	38	44	35	45	39	45	36	40	39	47
5	36	31	37	43	36	45	36	44	36	46	34	42
1	28	26	40	39	37	47	35	42	36	45	39	46
2	32	38	39	38	42	52	35	43	40	44	37	43
3	27	29	37	43	36	41	36	40	34	41	38	47
4	28	27	33	39	36	47	36	44	40	45	39	48
5	27	28	36	39	36	42	36	43	38	42	37	47
1	27	28	29	35	33	40	36	43	20	20	39	47
2	28	28	32	35	34	44	35	39	36	46	38	48
3	28	26	34	40	36	42	36	45	36	44	37	45
4	27	27	36	45	38	49	40	47	37	43	38	47
5	27	26	36	38	35	42	36	45	39	46	39	47
Average	27,2	29,4	35,7	41,2	36,1	43,3	37	43,9	36	41,9	37,3	46

Impact of SEA-CROP on leaf size of Zucchini(cv. Apus) grown in soilless

Length (l) and width (L) in cm of Leaves of Zucchini (cv. Apus) grown in soilless



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T6: SEA-CROP applied twice as Foliar (1%) (6 weeks apart)

Some concluding remarks regarding the impact of SEA-CROP on leaf size of Zucchini

Major Conclusions

1. SEA-CROP application improved leaf size especially leaf length.
2. The impact of SEA-CROP was highest when SEA-CROP was applied twice as foliar (T6) (1%) or when SEA-CROP was applied once as foliar or as a drench to the soil (0.3%) (T3 and T4).

Evaluating the impact of SEA-CROP on Zucchini yield

First Zucchini Harvest

Spectacular Impact of SEA-CROP on Early Harvest

Note the low yield of the control (T1) as compared to SEA-CROP in the first harvest

SEA-CROP = Early and High Production

Evaluating the impact of SEA-CROP on Zucchini yield

Measuring the fruits on 28 February 2008

Impact of SEA-CROP on yield of Zucchini (cv. Apus) grown in soilless system

Date	Harvest		T1		T2		T3		T4		T5		T6	
			Fruit NB	Fruit Weight	Fruit NB	Fruit Weight	Fruit NB	Fruit Weight	Fruit NB	Fruit Weight	Fruit NB	Fruit Weight	Fruit NB	Fruit Weight
26/01/2008	***R1***	1	2	0,31	2	0,4	2	0,46	0	0	3	0,6	1	0,25
28/01/2008		2	2	0,35	1	0,225	4	0,734	3	0,6	3	0,52	2	0,5
29/01/2008		3	0	0	0	0	0	0	4	0,7	0	0	2	0
31/01/2008		4	4	1,5	3	1,1	1	0,25	2	0,49	3	0,9	2	1,65
02/02/2008		5	3	0,63	2	0,5	3	0,68	3	0,85	3	0,7	3	0,73
04/02/2008		6	3	0,7	4	0,9	4	0,95	5	1,13	3	0,7	3	0,67
06/02/2008		7	4	0,98	3	0,75	3	0,69	5	1,14	3	0,8	4	1,07
08/02/2008		8	4	0,95	5	1,2	3	0,68	6	1,3	5	1,1	7	1,38
10/02/2008		9	5	1,02	4	0,89	4	0,9	5	1,01	7	1,4	6	1,2
13/02/2008		10	4	0,78	5	0,98	5	0,96	4	0,76	5	1,01	5	1,02
15/02/2008		11	1	0,2	1	0,18	2	0,48	3	0,57	4	0,48	3	0,62
17/02/2008		12	2	0,4	1	0,2	1	0,2	3	0,59	3	0,57	3	0,6
26/01/2008	***R2***	1	2	0,51	2	0,5	0	0	0	0	0	0	3	0
28/01/2008		2	2	0,42	1	0,15	0	0	2	0,34	1	0,21	0	0
29/01/2008		3	2	0,33	1	0,2	1	0,15	0	0	0	0	3	0,21
31/01/2008		4	3	0,7	2	0,49	6	1,8	3	0,99	1	0,5	0	0
02/02/2008		5	2	0,46	1	0,2	1	0,2	3	0,65	3	0,63	3	0,23
04/02/2008		6	5	1,12	4	0,89	3	0,65	4	0,88	4	0,97	3	0,64
06/02/2008		7	4	0,99	3	0,68	5	1,11	5	1,3	4	0,95	6	1,4
08/02/2008		8	5	1,2	4	0,83	6	1,25	4	0,8	6	1,25	6	1,28
10/02/2008		9	4	0,89	4	0,8	5	1,01	5	1,02	5	1,08	5	1,08
13/02/2008		10	3	0,6	5	0,97	4	0,84	5	1,08	4	0,86	5	1,07
15/02/2008		11	3	0,62	4	0,46	3	0,68	3	0,62	4	0,46	5	1,08
17/02/2008		12	2	0,44	3	0,65	2	0,45	2	0,4	4	0,48	4	0,48
26/01/2008	***R3***	1	0	0	2	0,356	1	0,22	2	0,44	3	0,61	3	0,5
28/01/2008		2	3	0,5	1	0,15	2	0,346	2	0,4	1	0,19	1	0,242
29/01/2008		3	2	0,33	0	0	2	0,38	1	0,18	0	0	4	0,16
31/01/2008		4	1	0,27	2	0,596	1	0,22	0	0	1	0,2	3	0,24
02/02/2008		5	3	0,7	4	1,1	2	0,48	2	0,5	4	0,9	3	0,65
04/02/2008		6	1	0,2	2	0,48	3	0,68	4	0,98	3	0,67	3	0,72
06/02/2008		7	4	0,94	7	1,69	6	1,38	8	1,9	2	0,44	3	0,74
08/02/2008		8	3	0,68	4	0,84	5	1,03	8	1,8	6	1,3	7	1,4
10/02/2008		9	4	0,9	5	1,04	6	1,23	6	1,2	5	1,03	6	1,2
13/02/2008		10	5	1,02	7	1,46	6	1,23	5	0,98	7	1,48	7	1,46
15/02/2008		11	3	0,6	4	0,47	5	1,02	4	0,48	4	0,45	0	0
17/02/2008		12	3	0,63	3	0,65	5	1,06	3	0,64	3	0,6	0	0
26/01/2008	***R4***	1	0		2	0,34	0	0	1	0,16	3	0,69	0	0
28/01/2008		2	3	0,63	1	0,183	2	0,33	0	0	3	0,65	2	0,412
29/01/2008		3	2	0,4	1	0,215	1	0,18	1	0,22	0	0	0	0
31/01/2008		4	0	0	0	0	1	0,3	2	0,48	3	1,21	0	0
02/02/2008		5	2	0,44	3	0,8	2	0,52	3	0,75	3	0,8	2	0,48
04/02/2008		6	2	0,42	3	0,65	4	0,912	4	0,95	1	0,25	2	0,46
06/02/2008		7	1	0,28	6	1,42	3	0,8	6	1,2	1	0,28	5	1,01
08/02/2008		8	4	0,86	5	1,1	4	0,89	5	1,02	6	1,19	5	1,03
10/02/2008		9	3	0,63	4	0,98	4	0,9	5	1,05	5	1,06	6	1,28
13/02/2008		10	4	0,81	5	1,03	4	0,81	6	1,34	6	1,2	6	1,26
15/02/2008		11	4	0,82	3	0,62	3	0,64	2	0,4	3	0,6	3	0,6
17/02/2008		12	4	0,85	1	0,2	2	0,39	1	0,19	2	0,19	5	0,2

Impact of SEA-CROP on Yield of Zucchini cv. Apus grown in Soilless system

Average number of fruits and yield per period of harvest

Harvest Dates	26-31 January 2008		2-6 February 2008		8-13 February 2008		15-17 February 2008	
	Number of Fruits	Average Weight	Number of Fruits	Average Weight	Number of Fruits	Average Weight	Number of Fruits	Average Weight
T1	1,75	0,39	2,8	0,7	4	0,86	2,75	0,57
T2	1,3	0,31	3,5	0,8	4,8	1	2,5	0,5
T3	1,5	0,34	3,25	0,8	4,7	1	2,9	0,6
T4	1,4	0,31	4,3	1	5,3	1,1	2,6	0,5
T5	1,6	0,39	2,8	1	5,6	1,2	3,3	0,5
T6	1,3	0,3	3,3	0,7	6	1,2	2,9	0,5

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T2: SEA-CROP applied once as Drench (0.15%)
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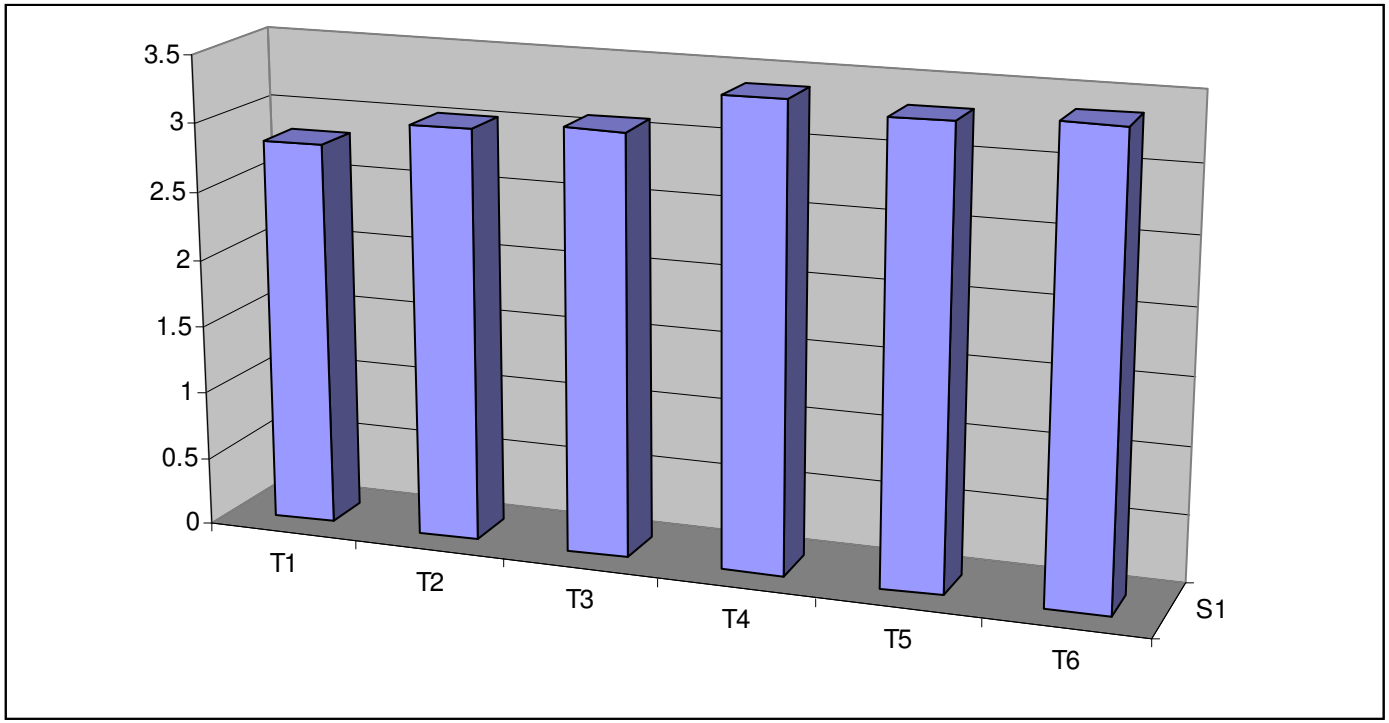

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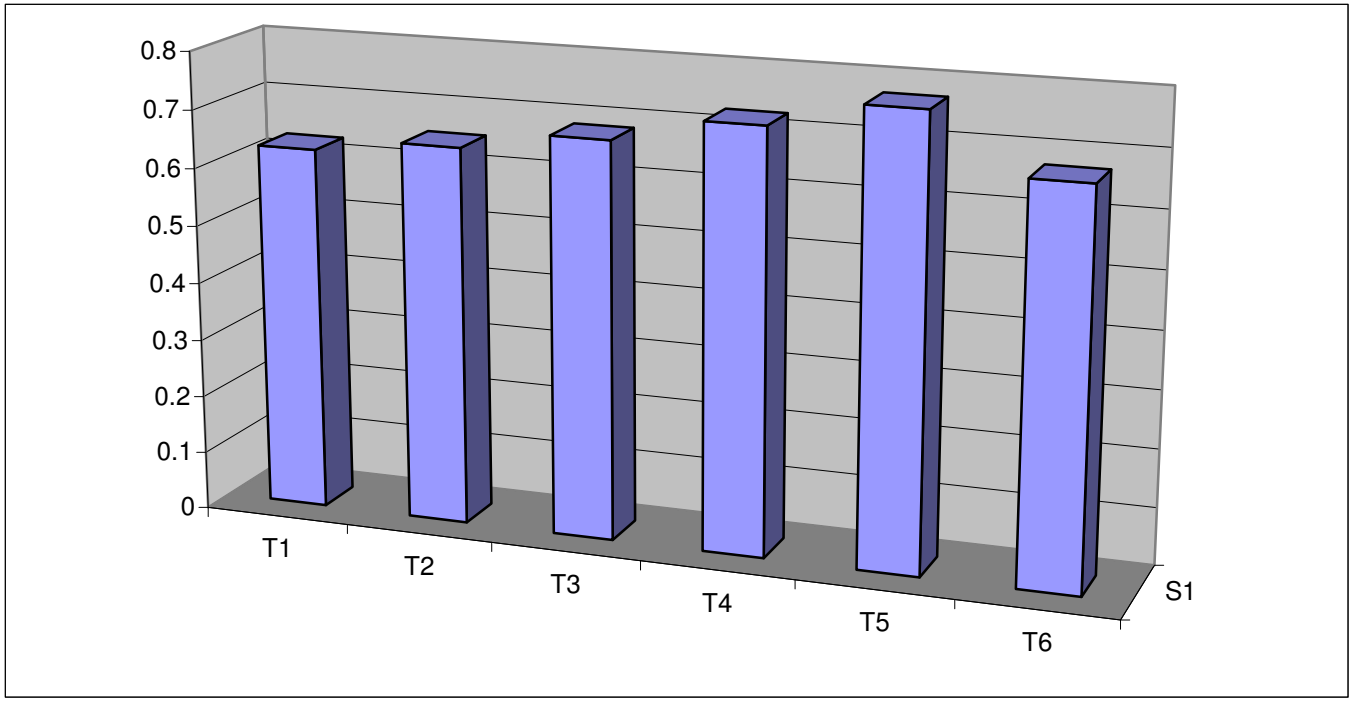

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Impact of SEA-CROP on Root of Zucchini cv. Apus grown in Soilless system

Harvesting the Root System

Impact of SEA-CROP on Root of Zucchini cv. Apus grown in Soilless system

Harvesting the Root System

Impact of SEA-CROP on Root of Zucchini cv. Apus grown in Soilless system

Harvesting the Root System
27 February 2008

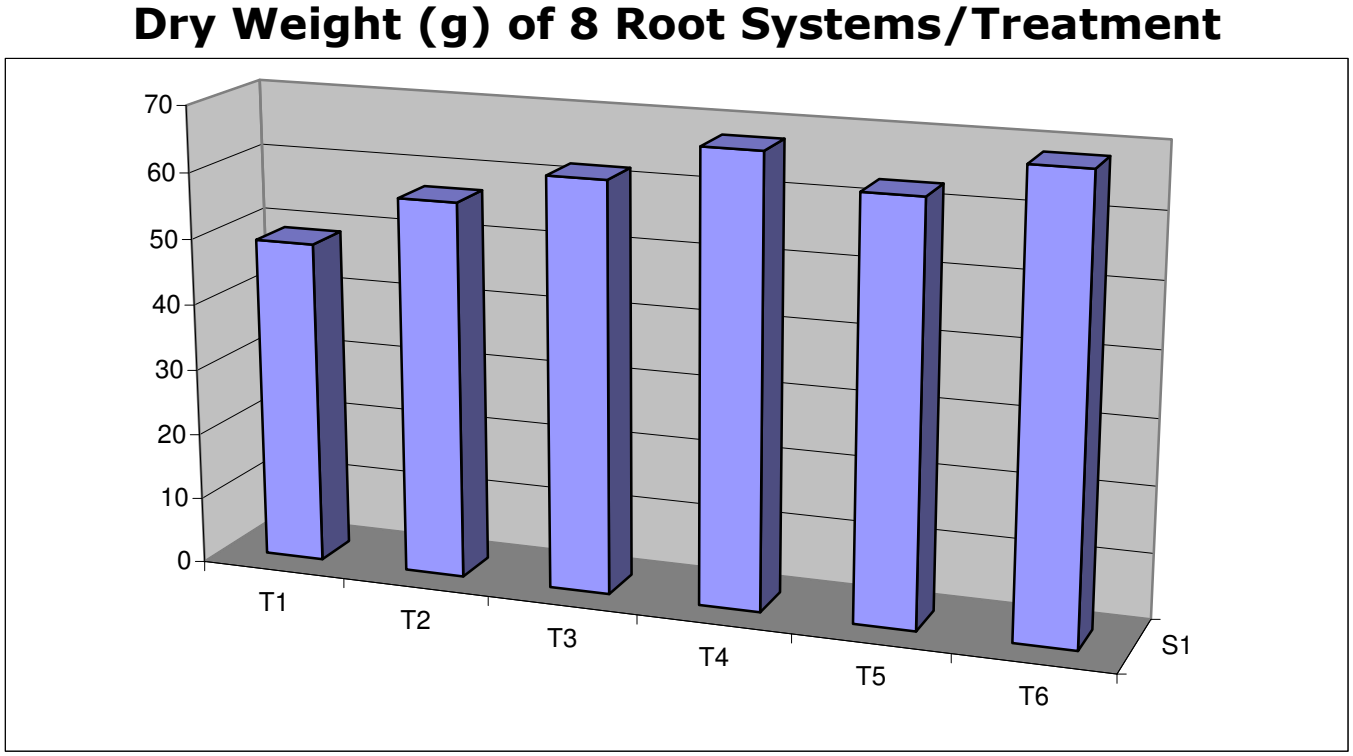
Impact of SEA-CROP on Root of Zucchini cv. Apus grown in Soilless system

Washing the Roots from the Substrate

Impact of SEA-CROP on Root of Zucchini cv. Apus grown in Soilless system

Harvesting the Root System
27 February 2008

Impact of SEA-CROP on Root of Zucchini cv. Apus grown in Soilless system



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Some Concluding Remarks concerning SEA-CROP and Zucchini grown in Soilless System

- All SEA-CROP Treatments have improved leaf size, number of fruits and total yield
- All SEA-CROP treatments have caused an early flowering and consequently an early production as compared to the control
- The best performance in terms of fruit number and fruit yields were achieved in the treatment which received two foliar applications of SEA-CROP (1%) followed by the treatment which received two applications as drench (0.30%).
- Even one foliar application of SEA-CROP (1%) achieved better results than drenching (0.15% or 0.30%).
- The concentration of 0.15% of SEA-CROP produced slightly better results than the negative control.
- SEA-CROP enhanced root volume and root dry weight. Again two foliar applications (1%) and two drench applications (0.30%) produced the largest root system.
- PS: Data relative to the two cultivars grown in soil was not presented in this report because of severe powdery mildew which affected the results of the trial in soil