

EVALUATING

SEA-CROP[®] by
AMBROSIA TECHNOLOGY LLC

***IN A COMMERCIAL
GREENHOUSE CROP***

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AMBROSIA TECHNOLOGY, LLC
RAYMOND, WA 98577**

Commercial Evaluation of SEA-CROP®



Commercial Evaluation of SEA-CROP®

- ❖ Greenhouse Farmer:
Chraibi

- ❖ Greenhouse Farm:
Tin Mansour-CMV 809

- ❖ Crop:
Climbing Flat Beans CV. Stefania

- ❖ Date of sowing:
25 October 2007

- ❖ First application of SEA-CROP:
10 November 2007.

Commercial Evaluation of SEA-CROP Experimental Design

❖ 6 Treatments evaluated 4 Replicates of each

- T1: SEA-CROP applied (10 November 2007) as a drench (250 cc/plant) at the concentration of 0.15%
- T2: SEA-CROP applied (10 November 2007) as a drench (250 cc/plant) at the concentration of 0.30%
- T3: SEA-CROP applied once (10 November 2007) as a Foliar at the concentration of 1%
- T4: SEA-CROP applied twice (10 November 2007 and 1 December 2007) as foliar at the concentration of 1%
- T5: Untreated Control
- T6: SEA-CROP applied (10 November 2007) as a drench (250 cc/plant) at the concentration of 1% and as Foliar at the concentration of 1% on 1 December 2007.

❖ One Treatment =
4 Rows of 50 m long

❖ 1 Row of 50 m long =
125 plants

Application of SEA-CROP



Stage of Plant Growth



Preparation of the Sea-Crop mix

Application of SEA-CROP



Application of SEA-CROP Drench 250 cc/plant



Application of SEA-CROP Drench 250 cc/plant

Application of SEA-CROP



Application of SEA-CROP Drench 250 cc/plant



Stage of application

Evaluating Impact of SEA-CROP on Plant Growth

6 December 2007



Left Row: SEA-CROP 1% Drench+1% Foliar
Right Row: SEA-CROP 0.15% Drench

SEA-CROP TRIAL Climbing Beans 12 January 2008



SEA-CROP 0.15% Applied as Drench



SEA-CROP 1% Applied as Drench+Foliar

SEA-CROP TRIAL Climbing Beans 16 February 2008



**SEA-CROP applied at 1% Drench+ 1% Foliar
Early Production and Early Senescence**



**SEA-CROP applied at 1% 1% Foliar
Production continue at same date**

SEA-CROP TRIAL Climbing Beans 29 February 2008



SEA-CROP Improve Root and Stem Vigor



SEA-CROP promotes Root System

Climbing Beans Plant Root Evaluation 29 February 2008



Vigorous stem

Vigorous Root system



Left: SEA-CROP 1% Drench+1% Foliar Right: SEA-CROP 1% Foliar

SEA-CROP EVALUATION AT COMMERCIAL GREENHOUSE

**Harvest in kg of Beans (500 plants/treatment) during the period
9 January to 3 February 2008**

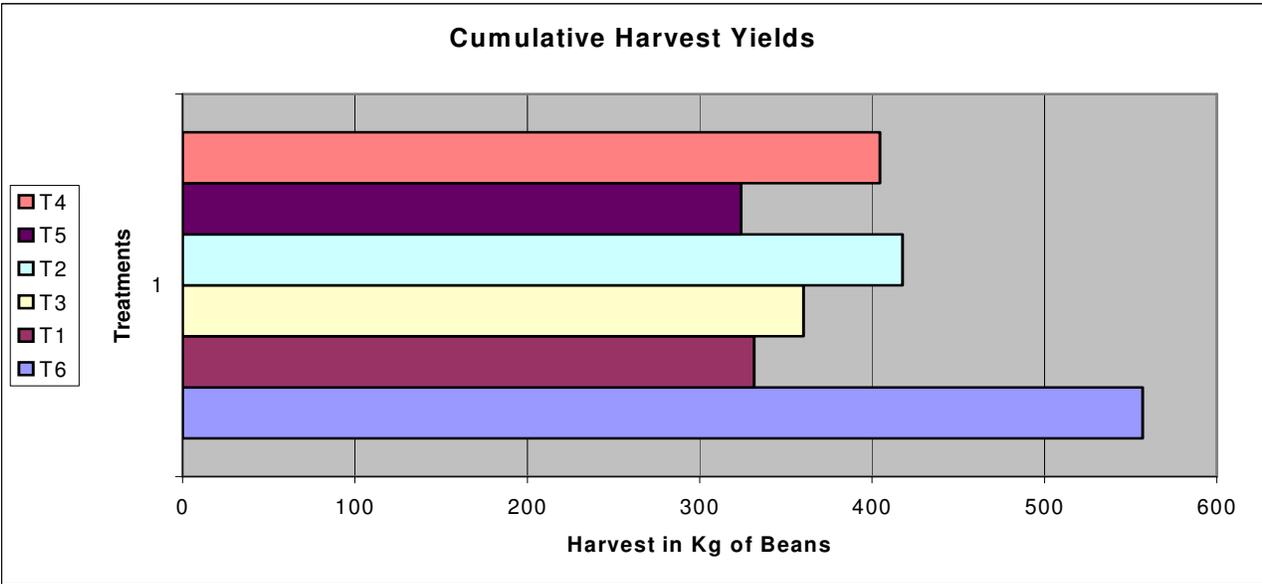
Harvest of Flat Beans in Kg per Treatment (500 plants)						
Date of Harvest	T6	T1	T3	T2	T5	T4
09/01/2008	37,5	18	18	29	18	28
11/01/2008	54	31,5	22,5	28,5	18	28
14/01/2008	38	30,5	28	30	18	28
16/01/2008	37	13,5	31,5	31	18	28
18/01/2008	72	32,5	28,5	32,5	18	22,5
20/01/2008	39	13,5	20,25	32,5	18	27
22/01/2008	35	22,5	31,5	36	27	36
25/01/2008	63	36	40,5	54	45	36
27/01/2008	54	28,5	36	36	31,5	36
30/01/2008	54	36	36	36	31,5	40,5
01/02/2008	42	37,5	31,5	31,5	36	45
03/02/2008	31,5	31,5	36	40,5	45	49,5
Total Harvest	557	331,5	360,25	417,5	324	404,5

Treatment T6 produced an increase in yield of 68% over the untreated control

Treatments					
T6	T1	T3	T2	T5	T4
SEA-CROP Drench 1% + Foliar 1%	SEA-CROP Drench 0,15%	SEA-CROP 1% Foliar (Once)	SEA-CROP Drench 0,30%	SEA-CROP Untreated	SEA-CROP 1% Foliar(Twice)

SEA-CROP EVALUATION AT COMMERCIAL GREENHOUSE

**Harvest in kg of Beans (500 plants/treatment)
during the period 9 January to 3 February 2008**



Treatments

T6 SEA-CROP Drench 1% + Foliar 1%	T1 SEA-CROP Drench 0,15%	T3 SEA-CROP 1% Foliar (Once)	T2 SEA-CROP Drench 0,30%	T5 SEA-CROP Untreated	T4 SEA-CROP 1% Foliar (Twice)
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SEA-CROP IMPACT ON BEANS

A. Best Performance:

SEA-CROP Drench 1% + Foliar 1%

The best performance in terms of yield and plant growth is obtained when SEA-CROP is used as Drench (1%) and as Foliar in the following three weeks.

B. Good Performance:

SEA-CROP Drench 0.30% + Foliar 1% Twice

The second best performance in terms of yield is achieved with SEA-CROP as Drench 0.30% and two foliar applications of SEA-CROP at 1%.

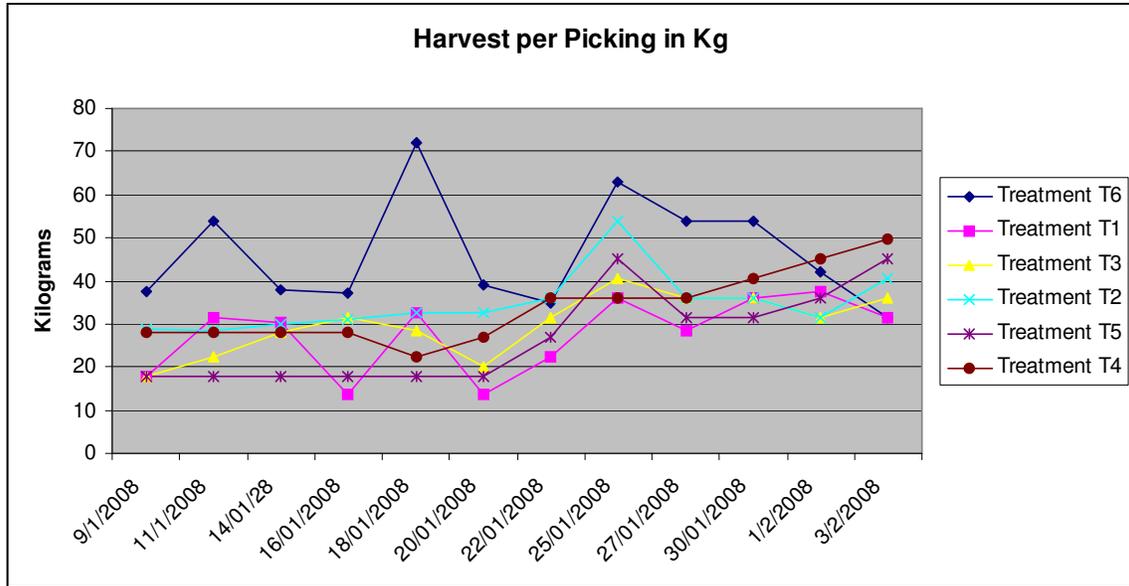
C. Medium Performance:

SEA-CROP Foliar 1%

The application of SEA-CROP as drench at the concentration of 0.15% did not improve yield as compared to the negative control.

SEA-CROP EVALUATION AT COMMERCIAL GREENHOUSE

Harvest in kg of Beans (500 plants/treatment) during the period 9 January to 3 February 2008

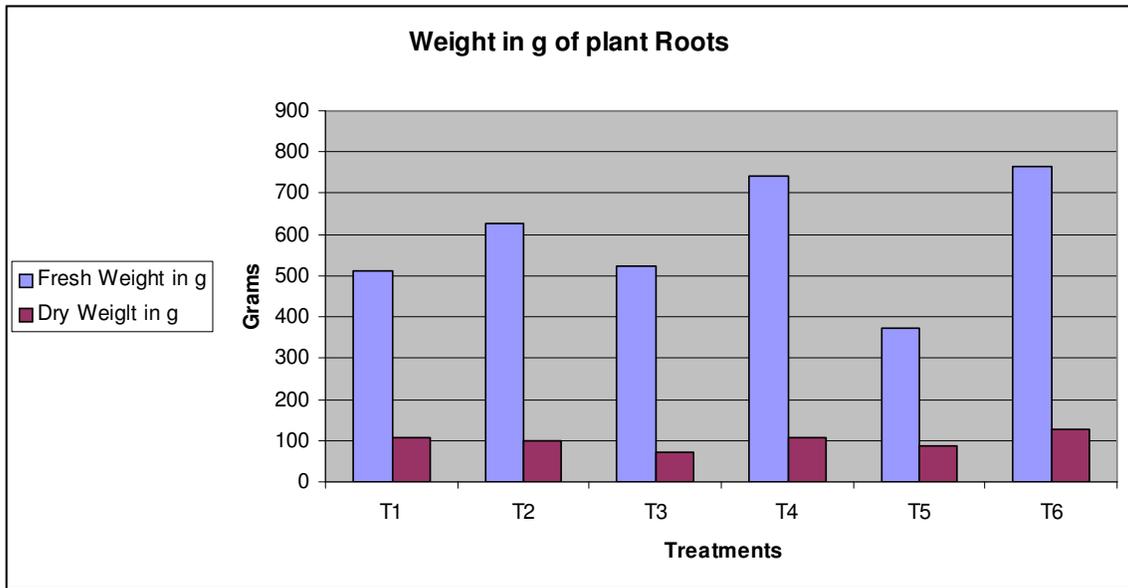


Note the early superior harvest when SEA-CROP is applied as Drench and Foliar (T6)

Treatments					
T6	T1	T3	T2	T5	T4
SEA-CROP	SEA-CROP	SEA-CROP	SEA-CROP	SEA-CROP	SEA-CROP
Drench 1% + Foliar 1%	Drench 0,15%	1% Foliar (Once)	Drench 0,30%	Untreated	1% Foliar(Twice)

SEA-CROP EVALUATION AT COMMERCIAL GREENHOUSE

Weight in g of plant Roots (5 plants/treatment) on 13 March 2008



Treatments

T6
SEA-CROP
Drench 1% +
Foliar 1%

T1
SEA-CROP
Drench 0,15%

T3
SEA-CROP
1% Foliar (Once)

T2
SEA-CROP
Drench 0,30%

T5
SEA-CROP
Untreated

T4
SEA-CROP
1% Foliar(Twice)

SEA-CROP IMPACT

Positive Impact of SEA-CROP on Beans

- 1. Improves Plant Growth, Leaf Size
And Root Volume and Weight**
- 2. Accelerates Early Production**
- 3. Improves Yield**

A Perfect Product
for Short Crop Cycle Crops

Suggestions for Use of SEA-CROP in Greenhouse Crops

Phase 1

Application of SEA-CROP at the Concentration 0.30%-1% either as Drench or Injection through the Irrigation system two weeks after transplanting.

Phase 2

Application of SEA-CROP at the Concentration 1% as Foliar six weeks after transplanting.

Phase 3

Additional applications of SEA-CROP at the Concentration 1% as Foliar as needed (cold, stress, etc.)