EVALUATING

SEA-CROP® by
AMBROSIA TECHNOLOGY LLC

IN A COMMERCIAL GREENHOUSE CROP

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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
Table: Harvest of Flat Beans in Kg per Treatment (500 plants)

<table>
<thead>
<tr>
<th>Date of Harvest</th>
<th>T6</th>
<th>T1</th>
<th>T3</th>
<th>T2</th>
<th>T5</th>
<th>T4</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/01/2008</td>
<td>37.5</td>
<td>18</td>
<td>18</td>
<td>29</td>
<td>18</td>
<td>28</td>
</tr>
<tr>
<td>11/01/2008</td>
<td>54</td>
<td>31.5</td>
<td>22.5</td>
<td>28.5</td>
<td>18</td>
<td>28</td>
</tr>
<tr>
<td>14/01/2008</td>
<td>38</td>
<td>30.5</td>
<td>28</td>
<td>30</td>
<td>18</td>
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<td>16/01/2008</td>
<td>37</td>
<td>13.5</td>
<td>31.5</td>
<td>31</td>
<td>18</td>
<td>28</td>
</tr>
<tr>
<td>18/01/2008</td>
<td>72</td>
<td>32.5</td>
<td>28.5</td>
<td>32.5</td>
<td>18</td>
<td>22.5</td>
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<tr>
<td>20/01/2008</td>
<td>39</td>
<td>13.5</td>
<td>20.25</td>
<td>32.5</td>
<td>18</td>
<td>27</td>
</tr>
<tr>
<td>22/01/2008</td>
<td>35</td>
<td>22.5</td>
<td>31.5</td>
<td>36</td>
<td>27</td>
<td>36</td>
</tr>
<tr>
<td>25/01/2008</td>
<td>63</td>
<td>36</td>
<td>40.5</td>
<td>54</td>
<td>45</td>
<td>36</td>
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<tr>
<td>27/01/2008</td>
<td>54</td>
<td>28.5</td>
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<td>36</td>
<td>31.5</td>
<td>36</td>
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<tr>
<td>30/01/2008</td>
<td>54</td>
<td>36</td>
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<td>31.5</td>
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<td>01/02/2008</td>
<td>42</td>
<td>37.5</td>
<td>31.5</td>
<td>31.5</td>
<td>36</td>
<td>45</td>
</tr>
<tr>
<td>03/02/2008</td>
<td>31.5</td>
<td>31.5</td>
<td>36</td>
<td>40.5</td>
<td>45</td>
<td>49.5</td>
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<tr>
<td>Total Harvest</td>
<td>557</td>
<td>331.5</td>
<td>360.25</td>
<td>417.5</td>
<td>324</td>
<td>404.5</td>
</tr>
</tbody>
</table>

Treatment T6 produced an increase in yield of 68% over the untreated control.
Harvest in kg of Beans (500 plants/treatment) during the period 9 January to 3 February 2008

<table>
<thead>
<tr>
<th>Treatments</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T6</td>
<td>SEA-CROP Drench 1% + Foliar 1%</td>
</tr>
<tr>
<td>T1</td>
<td>SEA-CROP Drench 0,15%</td>
</tr>
<tr>
<td>T3</td>
<td>SEA-CROP Drench 0,30%</td>
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<tr>
<td>T2</td>
<td>SEA-CROP Untreated</td>
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<tr>
<td>T5</td>
<td>SEA-CROP 1% Foliar (Twice)</td>
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<tr>
<td>T4</td>
<td>SEA-CROP 1% Foliar (Once)</td>
</tr>
</tbody>
</table>

Cumulative Harvest Yields

Harvest in Kg of Beans

![Cumulative Harvest Yields graph]
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)

<table>
<thead>
<tr>
<th>Treatments</th>
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</tr>
</thead>
<tbody>
<tr>
<td>SEA-CROP</td>
<td>Drench 1% + Foliar 1%</td>
<td>SEA-CROP</td>
<td>Drench 0,15%</td>
<td>SEA-CROP</td>
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</table>
**SEA-CROP EVALUATION AT COMMERCIAL GREENHOUSE**

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

<table>
<thead>
<tr>
<th>Treatments</th>
<th>T6</th>
<th>T1</th>
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<th>T2</th>
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<tr>
<td>SEA-CROP Drench 1% + Foliar 1%</td>
<td>SEA-CROP Drench 0,15%</td>
<td>SEA-CROP 1% Foliar (Once)</td>
<td>SEA-CROP Drench 0,30%</td>
<td>SEA-CROP Untreated</td>
<td>SEA-CROP 1% Foliar(Twice)</td>
<td></td>
</tr>
</tbody>
</table>

![Weight in g of plant Roots](chart.png)
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.)