**Vital Earth Resources**
706 East Broadway, Gladewater, Texas 75647
(903) 845-2163    FAX: (903) 845-2262

### 2010 Crop Results

**Vitazyme on Amaranth (Edible)**

**Researcher:** unknown  
**Location:** Hoc Mon District, Ho Chi Minh City, Viet Nam

**Variety:** Amaranth (*Amarantus mangosanus*)  
**Planting date:** July 23, 2010

**Preseeding treatment:** seeds mixed with dry soil

**Experimental design:** A small plot trial, using 30 m² plots and three replicates, was conducted on edible amaranth to determine the effect of Vitazyme on crop yield. Three plots were treated with Vitazyme, and three were left untreated.

1. **Control (farmer normal practice)**
2. **Vitazyme**

**Fertilization:** For 30 m², 48kg of chicken manure, 2 kg of “thermophosphate”, and 2 kg of organic fertilizer mixed with N-P₂O₅-K₂O fertilizer.

**Vitazyme application:** (1) a seed treatment of 10% Vitazyme by wetting the seeds and drying, repeated three times; (2) soil and foliar treatment of 3 ml in 3 liters of water, 7 days after planting; (3) foliar treatment of 3 ml in 3 liters of water, 14 days after seeding.

**Yield results:**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield kg/30m²</th>
<th>Yield kg/ha</th>
<th>Change kg/ha</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Control</td>
<td>120.0</td>
<td>40,000</td>
<td>---</td>
</tr>
<tr>
<td>2. Vitazyme, seeds</td>
<td>130.5</td>
<td>43,500</td>
<td>3,500 (+9%)</td>
</tr>
</tbody>
</table>

**Conclusion:** This Viet Nam study with edible amaranth revealed that a seed treatment and two foliar treatments of Vitazyme increased yield by 9%, a very substantial gain.
Researcher: unknown  
Location: Hoc Mon District, Ho Chi Minh City, Viet Nam  
Variety: Amaranth (Amarantus mangosanus)  
Planting date: July 5, 2010  
Preseeding treatment: seeds mixed with dry soil  
Experimental design: A small plot trial, using 30 m² plots and three replicates, was conducted on edible amaranth to determine the effect of Vitazyme on crop yield. Three plots were treated with Vitazyme, and three were left untreated. 

1. Control (farmer normal practice)  
2. Vitazyme  

Fertilization: For 30 m², 48kg of chicken manure, 2 kg of “thermophosphate”, and 2 kg of organic fertilizer mixed with N-P₂O₅-K₂O fertilizer. 

Vitazyme application: (1) a seed treatment of 10% Vitazyme wetted on the seeds and dried, repeated three times; (2) soil and foliar treatment of 3 ml in 3 liters of water, 7 days after planting; (3) foliar treatment of 3 ml in 3 liters of water, 14 days after seeding. 

Yield results: 

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield kg/30m²</th>
<th>Yield kg/ha</th>
<th>Change kg/ha</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Control</td>
<td>126</td>
<td>42,000</td>
<td>---</td>
</tr>
<tr>
<td>2. Vitazyme, seeds</td>
<td>129</td>
<td>43,000</td>
<td>1,000 (+2%)</td>
</tr>
</tbody>
</table>

Increase in yield with Vitazyme: 2%  

Conclusion: This Viet Nam study with edible amaranth revealed that a seed treatment and two foliar treatments of Vitazyme increased yield by 2%.