1. Production trend in the world
   - Mediterranean sea: decreases in 09
   - Australia: stable
   - Mexico: unstable
   - Japan: increase

2. Mediterranean sea nations
   - Spain: Retreat
   - Malta and Turkey: Rise
   - Movement of company

Source: Suisan Times and Minato Newspaper
Current Status of tuna culture in Japan

Tuna aquaculture has developed since the latter half of the 1990's, and it’s still active. This year's production is expected 10,000 tons. The number of aquaculture company was 68 in 2008 (include individual). With the increase of the tuna aquaculture companies, the procurement of juvenile and price rise of feeds (raw fishes only) become problems. Therefore, the mass production of the artificial seedlings and the development of the assorted feed are expected.

<table>
<thead>
<tr>
<th>year</th>
<th>Number of emergence company</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>1</td>
</tr>
<tr>
<td>2006</td>
<td>3</td>
</tr>
<tr>
<td>2007</td>
<td>9</td>
</tr>
<tr>
<td>2008</td>
<td>11</td>
</tr>
<tr>
<td>2009</td>
<td>4</td>
</tr>
</tbody>
</table>

Source: marino-forum 21

Cultured tuna production in Japan

Source: Suisan Times and Minato Newspaper
Cultured tuna's production expenditure

The feed expense accounts for 40% of the total cost of products and the seedling cost (10%) and the operating labor cost follow it (as a case of Kinki University). The unit price of most fish species for feeds is rising. The price rise of feed pushes up the produce cost, damaging the profitability of aquaculture companies.
Summary

1. Quantity supplied: downward trend
   - Mediterranean sea:
     19,000 tons in 2008 → 10,500-11,000 tons in 2009
   - Mexico: 1000-1500 tons
   - Japan: 6,000 tons in 2008 → 8,000-10,000 tons in 2009
   - Australia: 8,000 tons in 2008 → 8,000-9,000 tons in 2009

2. Price trend: Lehman's fall !!
   - Top ends of Japan and Spain: 3,000-3,500 yen/kg → 3,000 yen/kg ?
   - Australia and Mexico: 2,000-2,500 yen/kg → 1,500 yen/kg ?

3. Japanese aquaculture has global competitiveness and a promising type of domestically business in the medium and long-term. However, If the rise of the production expense continues, management turns worse.