THE PRODUCTION AND TRADE OF TILAPIA IN THE PHILIPPINES

RAFAEL D. GUERRERO III
AQUATIC BIOSYSTEMS
<aquabios@yahoo.com>
INTRODUCTION

- The Philippines produced 316,536 mt of tilapia in 2013 with a value of USD669.8 million.
  - 3rd largest tilapia producer in Asia
  - 4th largest tilapia producer in the world
TILAPIA SPECIES CULTURED

• Nile Tilapia (*Oreochromis niloticus*)
  • most predominant species and second most important cultured fish in the country

• Other Tilapia Species
  • Mozambique tilapia (*O. mossambicus*)
  • Red tilapia (hybrid)
  • Black-chinned tilapia (*Sarotherodon melanotheron*)
# TILAPIA PRODUCTION IN THE PHILIPPINES (2013)

<table>
<thead>
<tr>
<th>Source</th>
<th>Production (mt)</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Culture (95% from freshwater ponds and cages/pens)</td>
<td>269,058</td>
<td>85</td>
</tr>
<tr>
<td>Capture (38% of total fish caught from inland waters)</td>
<td>47,480</td>
<td>15</td>
</tr>
</tbody>
</table>
# CULTURE PRODUCTION (mt)

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>PRODUCTION (mt)</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshwater Ponds</td>
<td>142,852</td>
<td>53</td>
</tr>
<tr>
<td>Freshwater Cages</td>
<td>88,537</td>
<td>33</td>
</tr>
<tr>
<td>Freshwater Pens</td>
<td>21,904</td>
<td>8</td>
</tr>
<tr>
<td>Brackish water Ponds</td>
<td>15,213</td>
<td>6</td>
</tr>
<tr>
<td>Others</td>
<td>411</td>
<td>0.1</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>269,056</strong></td>
<td></td>
</tr>
</tbody>
</table>
PRODUCTION FROM INLAND WATERS

- Inland Waters - lakes, reservoirs, rivers, swamps (496,063 ha)

- Production: 47,480 mt (2013)
CULTURE TECHNOLOGIES

- Breeding
  - improved Nile tilapia strains (Get-Excel, Fast, Chitralada)

- use of outdoor and indoor systems
Nursery

- collection of day-old fry from hapas, ponds and tanks

- manual removal of fertilized eggs and sac fry from mouth-brooding females for artificial incubation
Treatment of Fry for Hormonal Sex Reversal

- more than 2 billion fry produced annually and about 80% of fingerlings is sex-reversed
• Grow-out in Ponds (semi-intensive to intensive)

• Grow-out in Floating Cages (intensive)
OTHER DEVELOPMENTS

- Brackishwater culture in ponds and cages
  - Molibicus hybrid (O. mossambicus x O. niloticus)
- Aquasilviculture
  - growing of tilapia in fenced mangrove areas
- Organic Culture
  - use of organic feeds and non-chemical inputs
TRADING OF TILAPIA

- Fresh or Chilled Whole Fish - most common in wet and super markets
Live Tilapia - an increasing trend
Processed Tilapia
FUTURE GROWTH

The People’s Fish

- relatively stable and affordable prices for all
- sustained availability of supply all-year round
Expansion areas

- lakes in Mindanao (second largest island)
- rice-fish culture (1.5 million irrigated rice fields)
- upland small impoundments and sky ponds
HAVE A TASTY TILAPIA!