Global Soy in Aquaculture





Michael C. Cremer, Ph.D. 2011 GAA GOAL Conference Santiago, Chile Nov 6-9, 2011



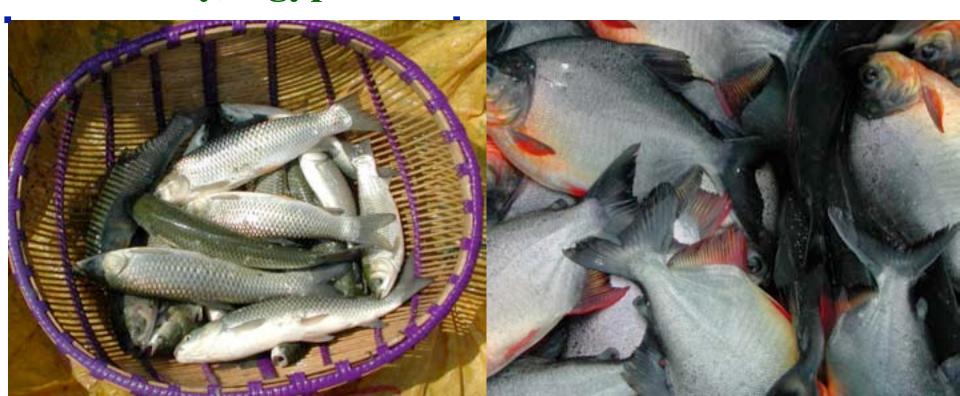
Expand Aquaculture Marketing and Research Activities

Global 'Soy in Aquaculture' program with linked international marketing and research



Location Focus

- Primary focus on China, 6 countries in Southeast Asia and Latin America
- Secondary focus on Mediterranean Europe,
 Turkey, Egypt and India



Key Program Components

- Development of soy feeds and production technologies that promote sustainability, food safety and environmental protection
- Global technical support in fish nutrition, feed formulation, mill O&M, and quality control
- On-farm demonstrations of soy feeds and sustainable technologies
- Linked marketing and research programs
- Promotion of soy-aqua sustainability message

China

• Expand ASA-IM program in response to growing China demand; add a 3rd full-time domestic staff person



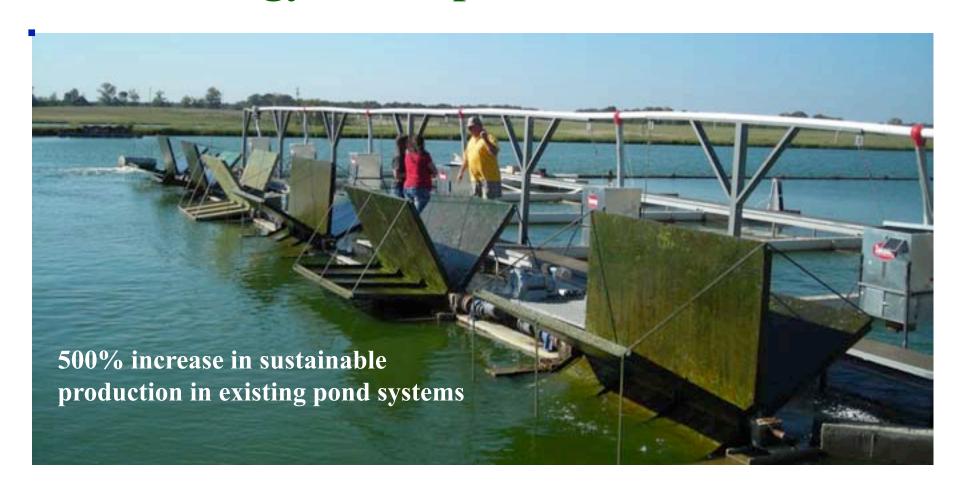
China

• Work with MOA & MEP to establish sustainability limits associated with current pond renovation program



China

• Introduce Intensive Pond Aquaculture Technology developed in United States



Southeast Asia

- Focus program on tilapia, pangasius catfish and marine fish culture
- SEA as primary marine fish supplier to East Asia region in the future



Southeast Asia

• Expand ASA-IM program in Vietnam – add a full-time technical manager in response to industry growth



Southeast Asia

 Demonstration of new soy products – Schillinger high protein and ultra-low oligosaccharide soybean meal

New Soybean Varieties for Aquaculture?





Latin America

Strategy and tactics focused on promoting aquaculture investment in the region









Latin America

• Latin America as a primary supplier of cultured aquaculture products for the region and the United States



Latin America

 Demonstration of new soy products – Schillinger high protein and ultra-low oligosaccharide soybean meal

New Soybean Varieties for Aquaculture?





Turkey

 Focus on demonstration of new soy products for sea bass and sea bream – soy feeds for trout





Egypt

- Focus on demonstration of soy feeds, sustainable production technologies and improved stock quality for tilapia
- Sea bass and sea bream culture (future)





Mediterranean Europe

 Focus on research evaluation and demonstration of new soy products – Schillinger high protein and ultra-low oligosaccharide soybean meal

New Soybean Varieties for Aquaculture?





India

 Focus on demonstration of soy feeds, feed mill development, diversification of culture species, and improving marketing and distribution channels



