



Shrimp Aquaculture Dialogue Presentation of the proposed standards





Understanding the Draft Standards Document

- Introduction, history, and scope
- Draft standards text (criteria; indicators; performance metric)
- Rationale = reasoning behind standards
- Guidance = how to implement
- Footnotes & definitions

How we will work together

- 1. Draft standards overview by:
 - Principle / impact area
 - Core elements of standards
 - > Outstanding issues
- 2. Full group <u>clarifications</u> (per above)
- 3. Small group <u>discussion</u> what works? What needs improvement?
- 4. Report out and synthesis of key points and feedback

Presentation Structure

Principle / impact area
Core elements of standards
Key outstanding issues

Principle 1: Comply with all applicable national laws and local regulations

Impact area

Farm shall be approved by national and regional authority

Core elements of draft standards

 Documentation proving compliance with local and regional authority.

(e.g. land title, permit, tax requirement, discharge regulation, legal use of therapeutants, and chemical)

Principle 2: Site farms in environmentally suitable locations while conserving biodiversity and important natural habitats

Impact area

 siting in ecologically sensitive habitats during construction and expansion

Criteria 2.1: Ecological and biotic siting considerations

- Critical habitats protected
- Protection of endangered species
- Buffer, riparian buffer and corridor protection
- Biodiversity inclusive Environmental Impact Assessment
- Data gathering to enable continuous improvement

Criteria 2.1: Ecological and biotic siting considerations

Outstanding Concerns

- How to address coastal and riparian buffer zones and wildlife movement corridors?
- Appropriate scale for EIAs?
- Incentives for landscape level and integrated coastal planning processes?
- Scale and time scale for BEIA?
- Acceptable practice for building canals and pumping stations in mangrove areas? Maintaining 'no net loss'?

Criteria 2.1: Ecological and biotic siting considerations

(continued)

- Identification and assessment of previous habitats?
- Guidance criteria for silvofishery?
- Water issues sufficiently addressed in relation to siting and ecosystem function?

Criteria 2.2: Prevention of salinization of adjacent freshwater and soil resources

- Core elements of draft standards
 - Soil permeability
 - Water loss in pond
 - Use of freshwater
 - Impact on adjacent freshwater bodies and land
 - Sediment containment and use

Criteria 2.3: Prevention of soil erosion

Core elements of standards

- rules for design and construction of ponds and canals
- conservation of natural hydrological condition

Outstanding Issue

- Importance of soil erosion as an impact?

Principle 3: Develop and operate farms with consideration for surrounding communities Impact area

negative impact on local communities (e.g. reducing public access to land and water resources; jeopardizing livelihoods

- participatory Social Impact Assessment
- conflict resolution policy
- Providing employment within local communities
- Contract farming arrangements are on paper, include basic provision and are recorded

Principle 3: Develop and operate farms with consideration for surrounding communities

Outstanding issues

- Farm closure and reclamation arrangements?
- Relevance to private standard system?
- Asociated negative impacts of migrant labor addressed? Alternatives?

Principle 4: Operate farms with responsible labor practices

Impact area

- Poor working and living conditions on site

- No Child labour
- No forced, bonded or compulsory labor
- No discrimination
- Work environment health and safety with adequate training
- Living wages
- Access to freedom of association and the right to collective bargaining

Principle 4: Operate farms with responsible labor practices

Core elements of draft standards (cont'd)

- No disciplinary practices in the working environment causing temporary or permanent physical and/or mental harm
- working hours, and overtime laws/ expectations are compensated
- Employee and worker contracts fair and transparent
- Fair and transparent mechanism to resolve conflicts

Principle 5: Manage shrimp health in a responsible manner

Impact area

- Transfer and amplification of disease
- Therapeutic chemical pollution and antibiotic resistantance

Criteria 5.1: Disease prevention

Core elements

- Preventive BMP
- Presence of net mesh, grills, screens, or barriers
- Dissolve oxygen in pond water
- pH level in pond water
- Survival rate

Outstanding Issue

Sufficiency of disease prevention standards?

Criteria 5.2: Predator control

Core elements of standards

- No intentional lethal predator control of any protected, threatened or endangered species
- No use of lead shot
- Establishment of a predator monitoring program

Outstanding Issue

Appropriate maximum number of lethal control events annually?

Criteria 5.3: Disease management and treatment

- No use of antibiotic
- Records of all product stocked and used on site
- All chemical product instructions are available on site and worker are trained
- Use of pesticide
- Discharge of chemical with neutralization
- Residues in pond not detectable
- Use of probiotic allowed under limited conditions

Criteria 5.3: Disease management and treatment

Outstanding Issues

- "white-list" of approved products,
- "black-list" of banned products
- "grey-list"?
- Use of Rotenone and Teaseed cake?
- Reference to existing conventions regarding hazardous pesticides

Principle 6: Manage broodstock origin, stock selection and effects of stock management

Impact area

- the collection of wild post-larvae and broodstock
- the introduction of non-native species
- the escape of genetically-distinct native shrimp

Principle 6: Manage broodstock origin, stock selection and effects of stock management

- No use of non-indigenous shrimp species unless those species are already widely used in commercial production locally
- post-larvae must be sourced in order to prevent genetic contamination of their population
- compliance with regional, national and international importation guidelines (e.g. OIE and ICES) for prevention of disease introduction and introduction of invasive species
- Use of Specific Pathogen Free Post Larvae (PL)
- Use of closed loop hatchery raised PL

Principle 6: Manage broodstock origin, stock selection and effects of stock management

- Use of wild caught broodstock in some condition
- No use of wild-caught PL
- BMP to prevent escapees
- Records of escapees
- No use of transgenic shrimp

Principle 7: Use resources in an environmentally efficient and responsible manner

Impact area

- Use of wild-caught (e.g. pelagic fish) and terrestrial farmed ingredients in shrimp feeds
- Energy use
- Farm efficient
- Effluent impact
- Waste management

Criteria 7.1: Origin of aquatic ingredients

- Fishmeal or fish oil originating from fisheries certified by an ISEAL member's certification scheme
- Use of by product feed ingredient allowed in some condition
- Transparency of feed ingredient sources

7.1: Origin of aquatic ingredients (cont'd)

- Interim standards for certified fisheries
 - No allowance for fisheries that are classified as depleted or overfished by regional, national or local fisheries management authorities
 - Use of fishmeal and fish oil in shrimp feed containing products from fisheries that are listed on CITES Appendix I, on the IUCN's Red List
 - Stock status or assessment of fisheries used
 - Demonstrate consideration for species interaction issues

Outstanding Issues

- How should an acceptable stock assessment result be defined? What is a credible assessor?
 - How should an acceptable demonstration for species interaction issues be defined?

7.1: Origin of aquatic ingredients (cont'd)

Outstanding Issues

- How should an acceptable stock assessment result be defined? What is a credible assessor?
- How should an acceptable demonstration for species interaction issues be defined?

Criteria 7.2: Origin and content of terrestrial feed ingredients

Core elements

- Non-marine ingredients from sources certified by an ISEAL member's certification scheme
- Feed formulation available
- Interim for certified source
 - Presence and evidence of a responsible sourcing policy which comply with internationally recognized moratoriums and local laws. The ingredients must not come from the Amazon Biome.
 - Chemical and Pesticide Use in agriculture
 - Include issue of chemical and pesticide use?
 - If so, how audit?

Criteria 7.3 and 7.4: Use of GMO ingredients and land animal by products

- Use of GMO ingredient in feed
 - Option for GMO use?
- Use of land animal by product
 - Options for land animal by-products use ?

Criteria 7.5: Use of wild fish for fishmeal and oil

Core elements of standards

- FFER
- FCR

Outstanding issues

Appropriate rationale for FCR inclusion?

Criteria 7.6: Effluent contaminant load & energy efficiency Core elements of standards

- Nitrogen balance
- Phosphorus balance
- Concentration of settleable solids in effluent water from aerated ponds
- Average, daily, minimum dissolved oxygen concentration in receiving water body
- Presence of records summarizing the facilities' energy consumption by sources
- Presence of records verifying the Annual Cumulative Energy Demand

Criteria 7.7: Handling and disposal of hazardous materials and wastes <u>Core elements of standards</u>

- Combustibles contained in bunds
- Chemicals stored in impermeable containers or buildings
- used lubricants recycled or turned over to an accredited waste management company
- chemical containers reused turned over to an accredited waste management company
- non-hazardous, non-recyclable wastes turned over to an accredited waste management company or landfill
- non-hazardous recyclable wastes reused or turned over to a recycling company