Salmon Aquaculture Dialogue

Indicator Brainstorm

Coastal Alliance for Aquaculture Reform, Fundación Terram, Marine Harvest, Norwegian Seafood Federation, Pew Environment Group, SalmonChile, Salmon of the Americas, Skretting, WWF

Goal

To make a first attempt at developing Indicators based on the existing and revised Criteria.

Key impacts

- 1. Benthic impacts and siting
- 2. Chemical inputs
- 3. Disease and parasites
- 4. Escapes
- 5. Feed
- 6. Nutrient loading and carrying capacity
- 7. Social Issues

Principles Criteria

Indicators Standards

| | Definition | Non-aquaculture example | Aquaculture example |
|-----------|--------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Impact | The problem we want to minimize | Overweight | Waste in effluents |
| Principle | The guiding principle for addressing the impact | Maintain a healthy weight | Conserve water resources |
| Criteria | The area to focus on to address the impact | Food consumption | Nutrient use and release |
| Indicator | What to measure in order to determine the extent of the impact | Calories | The amount of phosphorus added and released per metric ton of fish produced |
| Standard | The number and/or performance level to reach to determine if the impact is being minimized | < 4.5 calories/kilogram of body weight/day | Phosphorus input or utilization in tilapia aquaculture operations will not exceed 30 kg P / mt fish produced and loads of phosphorus released into natural receiving waters will not exceed 22 kg P/mt fish produced |

Moving towards standards

Principles

Drafted, discussed, revised, and posted for public comment

Criteria

Revised at this Dialogue meeting. They will be posted for public comment.

Indicators

Brainstorm indicators in small groups

Suggestions For Brainstorming

- All ideas are wanted
- Don't critique or discuss during brainstorming
- Set a limit and finish when it is reached (either time or number of ideas)
- Try to tie Indicators to specific Criteria
- Note Indicators that are already measured

Suggestions For Brainstorming

- When brainstorming is finished, go back and prioritise indicators
- Try to assess effectiveness, ease of measurement, cost and whether already being measured.

Moving towards standards

Next steps

- Steering Committee to consolidate today's work
- Consolidated Indicators given to technical working groups (TWGs)
- TWGs to draft and revise indicators based on their report areas and the Criteria we've developed
- Expert's workshop to get to final draft indicators
- Final draft indicators out to public comment

Thank You

http://worldwildlife.org/salmondialogue