



Project Owner: TCRS

Project Mgmt: GSSI

Independent experts: Natural Justice

Gap Analysis:

Animal Health & Welfare

Salmon, Shrimp, and Tilapia aquaculture

Landscape mapping, analysing gaps

Voluntary
Sustainability
Standards
(VSS)



**Sourcing policies from
40 leading global
retailers**

- Asia-Pacific (10%)
- Europe (58%)
- North America (30%)

(Seafood)
Sourcing
Policies

Aquatic Animal Health & Welfare



**Food and Agriculture
Organization of the
United Nations**

FAO Codes
& Guidelines

EU2016/429 Transmissible Animal Diseases
EU2018/848 Organic Regulation
EU2019/6 Veterinary Medicinal Products
EU2019/4 Medicated Feed
EC 'Strategic Guidelines for a More
Sustainable and Competitive EU
Aquaculture for 2021 to 2030'



**EU Guidelines
& Regulations**

Broad topic begs a holistic approach

Aquatic Animal Health & Welfare Analysis Framework

- | | |
|------------------------------------|-----------------------|
| 1. Management | 6. Equipment |
| 2. Disease Monitoring & Prevention | 7. Feeding |
| 3. Reproduction | 8. Slaughter |
| 4. Cultivation Parameters | 9. Cohabitant Species |
| 5. Husbandry Practices | 10. Life Stages |

The Research Question: how are our references covering these topic?

Shrimp

Latin name: *various*

Reviewed: 5 Voluntary
Sustainability Standards (VSS),
EU Guidelines, FAO Guidelines

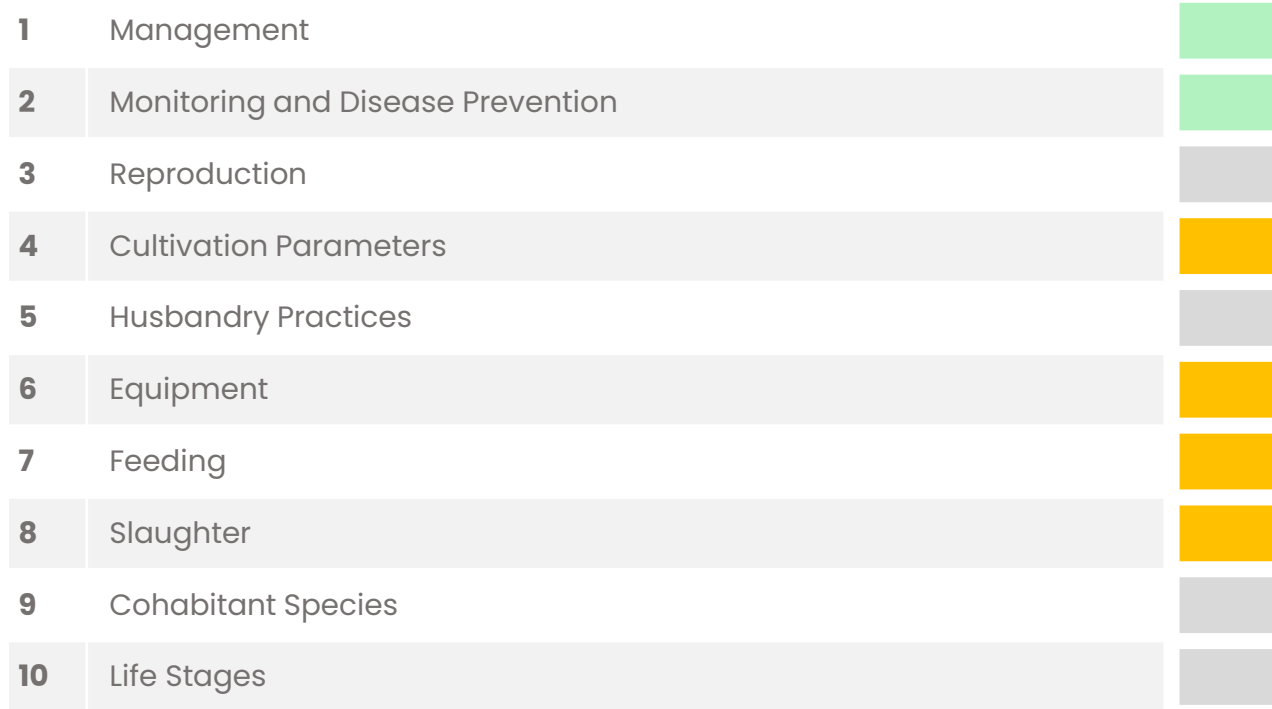
Species-specific Considerations:

Eyestalk Ablation

Disease Outbreaks (e.g. White Spot)



Coverage of Shrimp Welfare by Volunteer Sustainability Standards



** Green = High Coverage, Light Green = High-Medium Coverage, Orange = Medium Coverage, Grey = Low-No Coverage*

Coverage of Shrimp, Salmon and Tilapia Welfare



1	Management	Green	1	Management	Dark Green	1	Management	Light Green
2	Monitoring and Disease Prevention	Light Green	2	Monitoring and Disease Prevention	Light Green	2	Monitoring and Disease Prevention	Light Green
3	Reproduction	Grey	3	Reproduction	Orange	3	Reproduction	Orange
4	Cultivation Parameters	Orange	4	Cultivation Parameters	Dark Green	4	Cultivation Parameters	Light Green
5	Husbandry Practices	Grey	5	Husbandry Practices	Orange	5	Husbandry Practices	Orange
6	Equipment	Orange	6	Equipment	Light Green	6	Equipment	Orange
7	Feeding	Orange	7	Feeding	Orange	7	Feeding	Orange
8	Slaughter	Orange	8	Slaughter	Light Green	8	Slaughter	Orange
9	Cohabitant Species	Grey	9	Cohabitant Species	Grey	9	Cohabitant Species	Grey
1	Life Stages	Grey	1	Life Stages	Orange	1	Life Stages	Grey
0		Grey	0		Orange	0		Grey

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Sourcing Policies

- 1 Wide regional differences and fragmentation**
 - UK & CAN very demanding
- 2 “Animal welfare policies”** often fail to include or mention Aquatic Animals
- 3 A harmonized, science-based baseline** is lacking, and much needed

Thank You!!



The Center for
Responsible Seafood

