

2.4 Alien Species and Native Biodiversity

Stakeholder Consultation April 2024



Setting The Standard for Seafood



The issue and ASC's approach

The issue

- Animals that, through aquaculture activities, are taken from their native habitat and introduced into a new (non-native) habitat are considered alien species. Examples include Nile Tilapia farmed in Asia and Atlantic Salmon farmed in Chile
- This also includes breeds or strains within their native habitat, such as Atlantic Salmon farmed in Norway

Our approach

- The ASC Farm Standard uses independent, scientific categorisation to determine the level of expected harm of the introduced species
- The higher the level of harm, the stricter the Standard requirements and the greater the consequences for Non-conformity



Impact/risk



What farms need to do



No farming of transgenic species



Implement precautionary escape prevention measures that. at a minimum. include suitable containment structures for the species, their life stage and the environmental conditions in which the farm is operating



Regularly check for escapees outside the culture units, and where found, remove captured fish and take measures to reduce the risk of escapes during fish handling and movement



Using EICAT classification, assess the risk for their species and realm in which the farm is operating and, depending on the risk level, implement the additional requirementsmore details on next slide



Annual reporting of the Total Escape Count to ASC, in accordance with ASC data submission procedures



Upon exceedance of the metric escape limits set out in the ASC Farm Standard, inform the Conformity Assessment Body (CAB) and ASC within 7 calendar days upon detection



In Depth: Alien Species

Additional requirements for species categories

Least harmful: Least strict requirements Most harmful: Strictest requirements EICAT Category – Data Deficient (DD), EICAT Category – Moderate (MO) EICAT Category - Major (MR), Minimal Concern (MC), Minor (MN) Massive (MV) o Improve overall escape control and • Requires escape prevention • Requires escape prevention measures awareness of observed escape risks measures that respond to observed that respond to observed escape risks at farm level, thereby decreasing escape risks as well as accurate as well as accurate counting the chance of minor harm to the counting • The consequences of exceeding native biodiversity • The consequences of exceeding the Escape Total is certificate withdrawal • No exceedance of Escape Total Escape Total is a major non-

compliance or certificate withdrawal

if repetitive

 Progression towards escape-proof systems and/or the culture of sterile/triploid animals is required within six years upon effective date of the ASC Farm Standard

Setting The Standard for Seafood

Improvements on current species standards

The ASC Farm Standard addresses alien species and native biodiversity more rigorously

Existing species standards

- No evaluation of harmfulness of an alien species
- o No or inconsistent metric limits
- No differentiation of requirements despite different harm level(s)
- No prescribed consequences for Nonconformity

New ASC Farm Standard

- Independent EICAT evaluation of harm of a species
- Escape limits for all fish species:
 300 pcs for salmon, 6% for others
- Escalating requirements and consequences for non-conformity based on risk of impact



The benefits

Why ASC is taking this approach

Promotes responsible farming by limiting impacts on environments and animals

A scientific basis to guide farming practices

More reliable methodologies

Focus on species that have a proven impact on native biodiversity







The questions

Consultation questions

ALL 1 To what extent are the requirements in this criteria clear? Reasons for finding clarity/lack of clarity ALL 2 To what extent will there be challenges in implementing these requirements? What challenges do you foresee? PRODUCERS 3

What cost will be involved in meeting these requirements?

Scale (reduced costs → similar costs → moderate additional costs → significant additional costs)

What are the main sources of additional cost?



CABs 4 To what extent are these requirements auditable? Please detail any challenges you foresee with auditing this criterion ALL 5 What suggestions do you have for improving these requirements?

The questions

Consultation questions

The Farm Standard uses the independent, scientific EICAT categorisation to determine the harmfulness of an alien species.

To what extent do you agree with the approach taken here by ASC?

All

Reasons for agreement/disagreement

If categorisation based on EICAT evaluation finds that a species is moderately, majorly or massively harmful then the Farm Standard sets out additional, stricter requirements.

To what extent do you agree with the approach taken here by ASC?

Reasons for agreement/disagreement



All

The questions

Consultation questions

The Farm Standard does not include escalated requirements for the farming of species classed as data deficient or of minimal harm

To what extent do you agree with the approach taken here by ASC?

All

Reasons for agreement/disagreement



How to get involved?

Email: consultation@asc-aqua.org



Materials are available in English, Spanish, Vietnamese, French, German, Turkish, Japanese, Korean



In depth topic slides on: 2.4 <u>Alien Species</u> 2.6 <u>Water Quality</u> 2.10 <u>Energy Use & GHG Emissions</u> 2.14 <u>Pre-grow Out</u> 3.9 <u>Working Hours</u> 4.3-4.4 <u>Fish and Shrimp Health and Welfare - Slaughter</u>



ASC Farm Standard Slides (link)



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Full ASC Draft Farm Standard (link)



Survey (<u>link</u>)



Indicators

Indicator 2.4.1	The UoC shall not stock transgenic animals.
Indicator 2.4.2	 The UoC shall implement Precautionary Escape Prevention Measures that include as a minimum the following; the installation, inspection and maintenance of suitable containment structures for the species and life stages in culture and the environmental conditions in which the farm is operating; regularly checking for escapees outside the culture units, and where found, remove captured fish; measures to reduce the risk of escapes during fish handling and movement within the UoC.
Indicator 2.4.3	The UoC shall determine the EICAT Category and corresponding Confidence Level for their species and realm in which the farm is operating (see Table 1 in Appendix 6).
Indicator 2.4.4	<i>Indicator scope: farms with EICAT Category DD/MC/MN, MO, MR/MV</i> The UoC shall implement the Additional Requirements associated to the EICAT Category (associated indicators 2.4.7 to 2.4.32 can be found in Appendix 6 tables 3, 4 and 5.)



Indicators

Indicator 2.4.4	<i>Indicator scope: farms with EICAT Category DD/MC/MN, MO, MR/MV</i> The UoC shall implement the Additional Requirements associated to the EICAT Category (associated indicators 2.4.7 to 2.4.32 can be found in Appendix 6 tables 3, 4 and 5.)
Indicator 2.4.5	<i>Indicator scope: EICAT Category MO, MR/MV</i> The UoC shall, upon exceedance of the metric limits, inform the Conformity Assessment Body (CAB) and ASC within 7 calendar days upon detection.
Indicator 2.4.6	The UoC shall annually report to ASC the Total Escape Count, in accordance with ASC data submission procedures.
Indicator 2.4.33	 The UoC shall only stock salmon smolts produced in open cage culture if the supplier: operates in a region where indigenous salmonids of the same species being cultivated are present; and is certified to the ASC Farm Standard.



Table 3: Additional Requirements: Data Deficient (DD), Minimal Concern (MC) or Minor (MN) risk.

Realm Risk:	Data Deficient (DD)	Minimal Concern (MC)*	Minor (MN)*	Assurance response:	
Realm risk level M confirmed risk lev	Realm risk level Minimal/Minor, or realm risk level Moderate with a confidence score <0.2 (risk is considered unlikely). If the Ecoregion has a confirmed risk level higher then Minimal/Minor, then this shall be followed.				
Exemptions to the If the Impact N UoCs that can Requirements	e Minimal/Minor Category: Mechanism is Hybridisation, demonstrate that their cult	UoCs that culture sterile/tri ure system prevents succes	iploid stock are exempted from the Addi ssful escapes (i.e. fish surviving), are exem	tional Requirements. npted from the Additional	
Indicator 2.4.7**	The UoC shall not exceed th is stricter), as per below: • Salmon: 300 pcs • Other fish species: 6%	ne Total Escape Count ¹⁷¹ pe	r production cycle, or year (whichever	Regular categorization of	
Indicator 2.4.8**	The UoC shall not have mo • Salmon: >5000 pcs • Other fish species: >6	re than one Mass Escape Ev % Total Escape Count	vent per six years, defined as:	non-conformities	



Table 3 continued

Realm Risk:	Data Deficient (DD)	Minimal Concern (MC)*	Minor (MN)*	Assurance response:
Indicator 2.4.9**	The UoC shall carry out a sit by a member of senior mar Incorporating all steps o Incorporating all handlin	te-specific handling and co hagement, according to the f the risk management ma hg steps and parameters er	ntainment risk assessment, approved e following: trix in Table 6 isuring containment in Table 7	Regular categorization of non-conformities
Indicator 2.4.10**	The UoC shall train all releve handling errors.	ant staff on handling proce	dures to minimise escapes due to	
Indicator 2.4.11**	The UoC shall log handling/	containment accidents an	d near misses.	
Indicator 2.4.12**	Indicator scope: tilapia pro The UoC shall culture all-m	<i>ducers only</i> ale or sterile fish.		



Table 4: Additional Requirements: Moderate (MO) risk.

Realm Risk:	Moderate (MO)	Assurance response:			
*Realm risk level Mo level higher then Mo	*Realm risk level Moderate, or realm risk level Major with a confidence score <0.2 (risk is considered unlikely). If the Ecoregion has a confirmed risk level higher then Moderate, then this shall be followed.				
 **<u>Exemptions to the</u> If the Impact Med UoCs that can de Requirements. 	 **<u>Exemptions to the Moderate Category:</u> If the Impact Mechanism is Hybridisation, UoCs that culture sterile/triploid stock are exempted from the Additional Requirements. UoCs that can demonstrate that their culture system prevents successful escapes (i.e. fish surviving), are exempted from the Additional Requirements. 				
Indicator 2.4.13**	The UoC shall not exceed the Total Escape Count ¹⁷² per production cycle, or year (whichever is stricter), as per below: •Salmon: 300 pcs •Other fish species: 6%	Default non-conformity: • major NC; • n case of repetitive major			
Indicator 2.4.14**	The UoC shall not have more than one Mass Escape Event per nine years, defined as: •Salmon: >5000 pcs •Other fish species: >6% Total Escape Count	NCS IN The same, or consecutive, certificate cycle – certificate withdrawal			



Table 4 continued

Realm Risk:	Moderate (MO)	Assurance response:
Indicator 2.4.15**	The UoC shall count with a minimum of 98% accuracy.	
Indicator 2.4.16**	 The UoC shall carry out a site-specific handling and containment risk assessment, approved by a member of senior management, according to the following: Incorporating all steps of the risk management matrix in Table 6 Incorporating all handling steps and parameters ensuring containment in Table 7 	
Indicator 2.4.17**	 The UoC shall implement measures for the following situations: Preventive measures risks determined to be Low, Change of handling process / containment system for risks determined to be Medium or High, and Contingency measures for any incidence of escape. 	Default non-conformity: • major NC
Indicator 2.4.18**	The UoC shall review and where needed revise the risk assessment (Indicator 3.5.2) and respective measures (Indicator 3.5.3), with the following frequency: Prior to starting a new farm activity,	
	 Following feedback on major issues from employees (Indicators 3.1.3, 3.12.1, 3.12.8), Following accidents or near misses, and Annually. 	



Table 4 continued

Realm Risk:	Moderate (MO)	Assurance response:
Indicator 2.4.19**	The UoC shall train all relevant staff on handling procedures to minimise escapes due to handling errors.	Default non- conformity: • major NC
Indicator 2.4.20**	The UoC shall log handling/containment accidents and near misses.	
Indicator 2.4.21**	The UoC shall, where commercially available, use mono-sex culture. For tilapia producers, the UoC shall culture all-male or sterile fish.	
Indicator 2.4.22**	The UoC shall, for relevant species, prevent in-culture spawning.	



Table 5: Additional Requirements for producers that produce species in areas ranked as Major (MR) or Massive (MV) risk.

Realm Risk:	Major (MR)/Massive (MV)	Assurance response:		
** <u>Exemptions to the Major/Massive Category:</u> •If the Impact Mechanism is Hybridisation, UoCs that culture sterile/triploid stock are exempted from the Additional Requirements. •UoCs that can demonstrate that their culture system prevents successful escapes (i.e. fish surviving), are exempted from the Additional Requirements.				
Indicator 2.4.23**	The UoC shall not exceed the Total Escape Count ¹⁷³ per production cycle, or year (whichever is stricter), as per below: •Salmon: 300 pcs •Other fish species: 6%	Default non- conformity: • certificate withdrawal		



Table 5 continued

Realm Risk:	Major (MR)/Massive (MV)	Assurance response:
Indicator 2.4.24**	The UoC shall count with a minimum of 98% accuracy.	
Indicator 2.4.25**	The UoC shall carry out a site-specific handling and containment risk assessment, approved by a member of senior management, according to the following: •Incorporating all steps of the risk management matrix in Table 6 •Incorporating all handling steps and parameters ensuring containment in Table 7	
Indicator 2.4.26**	The UoC shall implement measures for the following situations: •Preventive measures risks determined to be Low •Change of handling process/containment system for risks determined to be Medium or High, and •Contingency measures for any incidence of escape.	Default non- conformity: • major NC
Indicator 2.4.27**	The UoC shall review and where needed revise the risk assessment (Indicator 3.5.2) and respective measures (Indicator 3.5.3), with the following frequency: •Prior to starting a new farm activity, •Following feedback on major issues from employees (Indicators 3.1.3, 3.12.1, 3.12.8), •Following accidents or near misses, and •Annually.	



Table 5 continued

Realm Risk:	Major (MR)/Massive (MV)	Assurance response:
Indicator 2.4.28**	The UoC shall train all relevant staff on handling procedures to minimise escapes due to handling errors.	Default non- conformity:
Indicator 2.4.29**	The UoC shall log handling/containment accidents and near misses.	• major NC
Indicator 2.4.30**	The UoC shall, where commercially available, use mono-sex culture. For tilapia producers, the UoC shall culture all-male or sterile fish.	
Indicator 2.4.31**	The UoC shall, for relevant species, prevent in-culture spawning.	
Indicator 2.4.32**	The UoC shall use triploid or otherwise sterile stock, or, produce in escape-proof systems, within six years upon effective date of the ASC Farm Standard.	



Thank you



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