



ASC SHRIMP STANDARD REVISION

Freshwater Crustacean Species – Metric Revision
Consultation Summary

March 2020



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Project Objective

The ASC regularly reviews its standards as part of its standard-setting protocol and in compliance with the ISEAL Code of Good Practice. The ASC Shrimp Standard v.1.1 currently covers saltwater shrimp species of the genus *Litopenaeus* and *Penaeus*, focussing on *P. vannamei*¹ and *P. monodon*. A gap analysis was conducted by the ASC to evaluate the possibility to add freshwater crustaceans to the standard. As a result, it was decided to add *Cherax spp.*, *Procambarus spp.*, *Astacus spp.*, and *Macrobrachium spp.* to the standard. In order to add the species-specific metric performance levels, a data revision based on the current version of the ASC Metrics Methodology was conducted.

The results of the initial revision and the data obtained, and the resulting recommendations, are now (March 2020) being presented to all stakeholders for public consultation in order to ensure a transparent standard-setting process in compliance with ISEAL requirements.

Purpose of consultation

In order to set species-specific metric requirements, data from both scientific literature and non-certified farms is required. Although several stakeholders have been contacted and a data request has been published on the ASC Website, to date (March 2020) no datasets from commercial farming operations have been received.

This consultation aims to present the acquired (literature) data and the conclusions drawn; and to gather additional information and data from stakeholders. More information on the datasets and statistical analysis can be found in the Data Overview Document.

¹ The ASC's Technical Advisory Group (TAG) supported in November 2019 the proposal that based on [recent research](#) re. phylogenetic analyses of several shrimp within the family Penaidae, the *Penaeus* genus should be used to define all potential new saltwater shrimp species. This also means that from the Shrimp Standard Review's public consultation of March 2020, references to the 'Litopenaeus' genus will be removed and replaced by 'Penaeus', and/or used interchangeably. Notably, the Whiteleg shrimp *may* be referred to by ASC as 'Penaeus (Litopenaeus) vannamei' – or 'P. vannamei' – and if so: this latter species refers to the same as the one listed in the scope of the Shrimp Standard v1.1 as 'Litopenaeus vannamei' or 'L. vannamei'.



Proposal

The following metric indicators are proposed based on the currently available datasets. Due to the limited data availability and the general similarities between species identified in the literature research, it is proposed to use the same metrics for the crayfish / crawfish species: *Cherax spp.*, *Procambarus spp.* and *Astacus spp.*

Indicator 2.5.3 Water specific conductance	Same values as for saltwater shrimp species
Indicator 5.1.3 survival rate	Same values as for saltwater shrimp species
Indicator 7.4.1 Feed Fish Equivalence Ratio (FFER)	FFER for <i>Cherax spp.</i> , <i>Procambarus spp.</i> , and <i>Astacus spp.</i> : 1.4 FFER for <i>Macrobrachium spp.</i> : 2.1
Indicator 7.4.2a Feed Conversion Ratio (FCR)	Only recording and reporting required
Indicator 7.4.2b Protein Retention Efficiency (PRE)	Only recording and reporting required
Indicator 7.5.1 Nitrogen Effluents	For <i>Cherax spp.</i> , <i>Procambarus spp.</i> , and <i>Astacus spp.</i> : 26.1 kg/t for <i>Macrobrachium spp.</i> : 39.2 kg/t
Indicator 7.5.1 Phosphorous Effluents	For <i>Cherax spp.</i> , <i>Procambarus spp.</i> , and <i>Astacus spp.</i> : 4.0 kg/t for <i>Macrobrachium spp.</i> : 6.1 kg/t
Indicator 7.5.4 Settleable Solids	Same values as for saltwater shrimp species
Indicator 7.5.5 Change in diurnal DO	Same values as for saltwater shrimp species

Consultation Questions

- *Can you provide commercial production data on any of the above-mentioned species/indicators? Data will be anonymised.*
- *Do you consider the combination of metric performance levels for *Cherax spp.*, *Procambarus spp.* and *Astacus spp.* to be reasonable?*
- *Are there environmental concerns with any of the above-mentioned species that the ASC should be aware of in addition to those addressed by the Standard?*

We specifically encourage feedback from commercial farmers to evaluate if the metrics set could be met 'easily' or 'not at all'; and if the proposed indicators' requirements are measurable within the farming system(s) used.

Next steps

The quality and amount of feedback and additional data submissions will help determine the necessity and appropriateness of setting another round of public consultation. This will be decided upon after the public consultation period ended and will be communicated to all stakeholders in due time.