# MarinTrust Standard V2

# By-product Fishery Assessment

## *Japanese amberjack (Seriola quinqueradiata) in FAO area 71 - Western Central Pacific*

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# Table 1 Application details and summary of the assessment outcome

| | | |
|---|---|---|
| Fishery Under Assessment | Species: | Japanese amberjack/yellowtail/buri (*Seriola quinqueradiata*) – [ブリ， in Japanese] |
| | Geographical area: | FAO area 71 - Western Central Pacific |
| | Country of origin of the product: | Thailand<br>Flag country: Japan |
| | Stock: | Japanese amberjack/yellowtail/buri (*Seriola quinqueradiata*) – [ブリ in Japanese] in FAO area 71 - Western Central Pacific |
| Date | 23 August 2023 | |
| Report Code | THA58 | |
| Assessor | Ana Elisa Almeida Ayres | |
| Country of origin of the product - PASS | Thailand<br>Flag country: Japan | |
| Country of origin of the product - FAIL | NA | |

| Application details and summary of the assessment outcome | | | |
|---|---|---|---|
| Company Name(s): TC Union Agrotech Co. Ltd | | | |
| Country: Thailand | | | |
| Email address: | | Applicant Code: | |
| Certification Body Details | | | |
| Name of Certification Body: | | NSF | |
| Assessor | Peer Reviewer | Assessment Days | Initial/Surveillance/ Re-approval |
| Ana Elisa Almeida Ayres | Matthew Jew | 0.5 | Initial |
| Assessment Period | Up to August 2023 | | |

| Scope Details | |
|---|---|
| Main Species | Japanese amberjack/yellowtail/buri (*Seriola quinqueradiata*) [ブリ, in Japanese] |
| Stock | Japanese amberjack/yellowtail/buri (*Seriola quinqueradiata*) [ブリ, in Japanese] in FAO area 57 - Western Central Pacific |
| Fishery Location | FAO area 71 - Western Central Pacific |
| Management Authority (Country/ State) | Ministry of Agriculture, Forestry and Fisheries of Japan (MAFF) |
| Gear Type(s) | Purse seine, gillnet and Stationary uncovered pound nets |
| Outcome of Assessment | |
| Peer Review Evaluation | Agree with assessor's recommendation |
| Recommendation | PASS |

# Table 2. Assessment Determination

| **Assessment Determination** |
|---|
| If any species is categorised as Endangered or Critically Endangered on Union for Conservation of Nature's Red List of Threatened Species - IUCN's Red List, or if it appears in the Convention on International Trade in Endangered Species of Wild Fauna and Flora - CITES appendices, it cannot be approved for use as Marin Trust raw material. Japanese amberjack/yellowtail/buri (*Seriola quinqueradiata*) [ブリ, in Japanese) is not categorised as Endangered or Critically Endangered on IUCN's Red List and does not appear in CITES appendices; therefore, Japanese amberjack/yellowtail/buri (*Seriola quinqueradiata*) [ブ, in Japanese] is eligible for approval for use as Marin Trust by-product raw material.<br><br>The flag country of this assessment is Japan. The Japanese amberjack stock is transboundary, occurring in both Japan and S. Korea's exclusive economic zone - EEZs, and possibly in China and Taiwan's EEZs as well. Stock assessment of this stock is published every year and is usually based on cohort analysis using landings data from Japan and South Korea. There is a species-specific management regime in place, thus the species was assessed under Category C.<br><br>Fishery removals of the species in the fishery under assessment are included in the stock assessment process, therefore the stock achieves a PASS against Clause C1.1. Fishing mortality (F) has exceeded the Fishing mortality at maximum sustainable yield (Fmsy) since 1994. The species has a biomass above the limit reference point (or proxy), thus the stock achieves a PASS against Clause C.1.2<br><br>Therefore, Japanese amberjack/yellowtail/buri (*Seriola quinqueradiata*) [ブリ, in Japanese] in FAO area 71 - Western Central Pacific is APPROVED for the production of fishmeal and fish oil under the current MarinTrust v2.3 by-products standard. |
| **Fishery Assessment Peer Review Comments** |
| The assessor correctly classified the Japanese amberjack in FAO 71 under category C, as the stock is managed and reference points are defined to assess the stock status against.<br><br>Fishery removals from the stock are considered in the stock assessment process, and the most recent stock assessment shows that the stock is considered to have a biomass well above the limit reference point (proxy): the fishery passes both clauses C1.1 and C1.2.<br><br>Therefore, the Japanese amberjack in FAO 71 is **APPROVED** for the production of fishmeal and fish oil under the current MarinTrust V2.3 by-products standards. |
| **Notes for On-site Auditor** |

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|---|
| N/A |

# Species Categorisation

**NB:** If any species is categorised as Endangered or Critically Endangered on the IUCN Red List, or if it appears in CITES Appendix 1, it **cannot** be approved for use as an MarinTrust raw material.

## IUCN Red list Category

By-product material from a species listed by IUCN (the International Union for Conservation of Nature) under the Red List for the following categories shall immediately fail the assessment;

- EXTINCT (E) AND EXTINCT IN THE WILD (EW)
- CRITICALLY ENDANGERED (CR) facing an extremely high risk of extinction in the wild.
- ENDANGERED (EN) facing a very high risk of extinction in the wild.

By-product material may be used from the following categories provided that all clauses in the MarinTrust standard are passed.

- VULNERABLE (VU) facing a high risk of extinction in the wild.
- NEAR THREATENED (NT) does not qualify for above now, but is close or is likely to qualify for, a threatened category in the near future.
- LEAST CONCERN (LC) Widespread and abundant.
- DATA DEFICIENT (DD) and NOT EVALUATED (NE)

# Table 3 Species Categorisation Table

| Common name | Latin name | Stock | Management | Category | IUCN Red List Category[1] | CITES Appendix 1[2] |
|---|---|---|---|---|---|---|
| Japanese amberjack/yellowtail/buri [ブリ, in Japanese] | *Seriola quinqueradiata* | Japanese amberjack/yellowtail/buri (*Seriola quinqueradiata)* – [ブリ, in Japanese] in FAO area 71 - Western Central Pacific | Thailand Department of Fisheries (DOF) | C | LC | No |

[1] https://www.iucnredlist.org/
[2] https://cites.org/eng/app/appendices.php

# CATEGORY C SPECIES

In a by-product assessment, Category C species are those which are subject to a species-specific management regime and are usually targeted species in fisheries for human consumption.

Clause C1 should be completed for each Category C species. If there are no Category C species in the fishery under assessment, this section can be deleted. Where a species fails this Clause, it should be assessed as a Category D species instead.

| **Species Name** | | **Japanese amberjack/yellowtail/buri (*Seriola quinqueradiata*) [ブリ in Japanese]** | |
|---|---|---|---|
| **C1** | **Category C Stock Status - Minimum Requirements** | | |
| | **C1.1** | Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible. | Yes |
| | **C1.2** | The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible. | Yes |
| | | **Clause outcome:** | Pass |

**C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible**.

The Japanese amberjack/yellowtail/buri (*Seriola quinqueradiata)* [ブリ, in Japanese] stock is transboundary, occurring in both Japan and S. Korea's exclusive economic zone - EEZs, and possibly in China and Taiwan's EEZs as well. However, a joint, multi-country stock assessment is not conducted, and catch information for China and Taiwan is lacking.

Japanese fisheries are managed under the authority of the Ministry of Agriculture, Forestry and Fisheries of Japan (MAFF) and the Fisheries Agency and they elaborate a stock assessment of Japanese amberjack every year. The stock assessment of Japanese amberjack is usually based on cohort analysis using landings data from Japan and South Korea.

The catches in 2021 of Japanese amberjack totalled 109,000 tons (94,000 tons in Japan and 15,000 tons in Korea (FRA, 2023) [Figure 1].

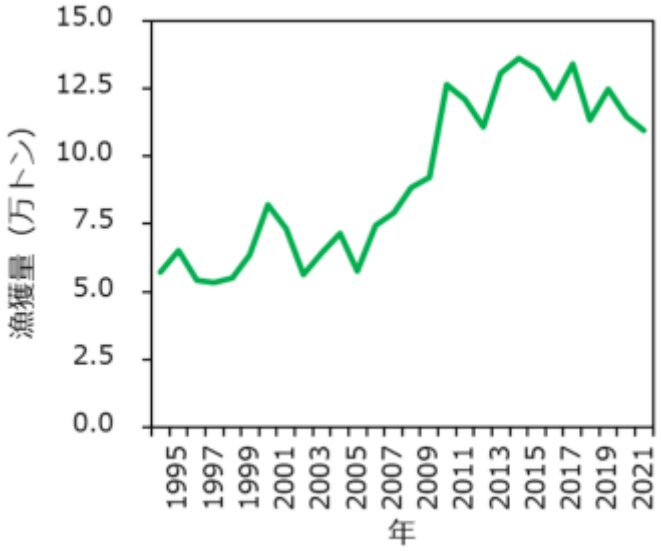


**Figure 1. Historical catches of Japanese amberjack in Japan and Korea. The x-axis represents the years and the y-axis represents catches (10,000 tons) [FRA, 2023].**

**Fishery removals of Japanese amberjack is incorporated into the stock assessment process and therefore C1.1 is met.**

**C1.2 The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.**

The stock assessment of FRA (2023) tracks spawning biomass based on cohort analysis using landings data from Japan and South Korea. According to FRA (2023), Fishing mortality (F) has exceeded the Fishing mortality at maximum sustainable yield (Fmsy) since 1994, the year that stock assessment for this species started. Spawning biomass has been below the biomass at maximum sustainable yield (SBmsy) since 1994 as well. However, the limit reference point (draft limit of the control criteria) set by FRA is a biomass with 60% of the MSY and the biomass was above this limit in 2021 (Figure 2). Fishing ban is recommended when brood stock amount yields 10% of MSY. The average catch in 2023 is projected to be 82,000 tons.

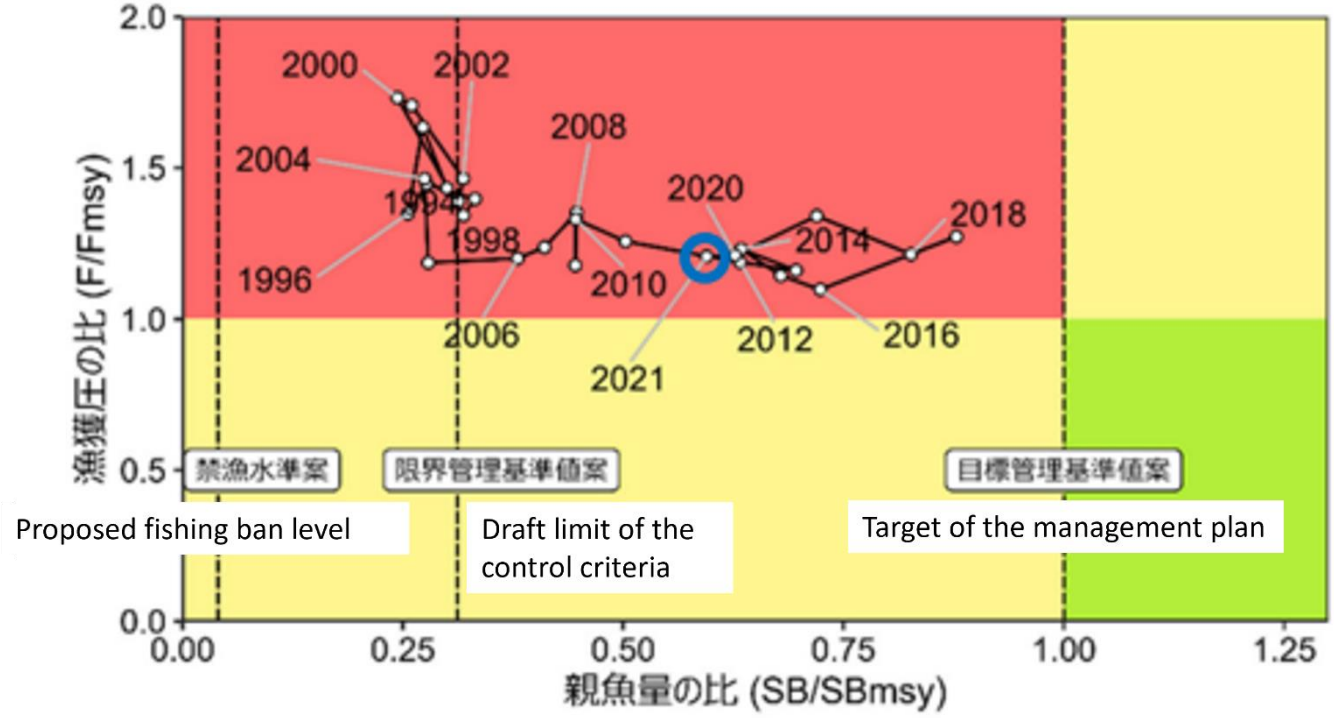


**Figure 2. Adapted graph obtained from FRA (2023).**

**The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), C.1.2 is met.**

**References**

FRA 2023. Stock assessment of wild Japanese amberjack in 2022 (In Japanese). Digest version. https://abchan.fra.go.jp/wpt/wp-content/uploads/2022/simple_2022_45.pdf

| **Links** | |
|---|---|
| **MarinTrust Standard clause** | 1.3.2.2 |
| **FAO CCRF** | 7.5.3 |
| **GSSI** | D.3.04, D5.01 |