



MarinTrust Standard V2

By-product Fishery Assessment

THA58

Japanese amberjack

(Seriola quinqueradiata)

in FAO Area 71

MarinTrust Programme

Unit C, Printworks

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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Japanese amberjack (<i>Seriola quinqueradiata</i>)
	Geographical area:	FAO 71
	Country of origin of the product:	Thailand
	Stock:	FAO 71
Date	August 2024	
Report Code	THA58	
Assessor	Sam Peacock	
Country of origin of the product - PASS	Thailand	
Country of origin of the product - FAIL	None	

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 / Global Trust Certification Ltd.	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/Re-approval
Sam Peacock	Léa Lebechnech	0.2	Surveillance 1
Assessment Period	August 2024 – August 2025		

Scope Details	
Main Species	Japanese amberjack (<i>Seriola quinqueradiata</i>)
Stock	FAO 71
Fishery Location	FAO 71
Management Authority (Country/ State)	EU
Gear Type(s)	Purse seine, gillnet, stationary uncovered pound nets
Outcome of Assessment	
Peer Review Evaluation	Agree with the assessor's determination
Recommendation	APPROVED

Table 2. Assessment Determination

Assessment Determination
<p>If any species is categorised as Endangered or Critically Endangered on IUCN’s Red List, or if it appears in the CITES appendices, it cannot be approved for use as Marin trust raw material. Japanese amberjack (<i>Seriola quinqueradiata</i>) does not appear as Endangered or Critically Endangered on IUCN’s Red List, and does not appear in CITES appendices; therefore, <i>Seriola quinqueradiata</i> is eligible for approval for use as Marin trust by-product raw material.</p> <p>This byproduct has previously been assessed under Category C; however, the stock assessment used indicates that the area covered does not include FAO 71¹. Additionally, the geographical distribution of this species does not appear to include FAO 71². For the purposes of this assessment, the species is assumed to be present in the area, and a Category D assessment has been applied.</p> <p>Japanese amberjack was awarded an average Productivity score of 1.67 and an average Susceptibility score of 2.5, leading to a Pass rating against Table D3.</p> <p>Therefore, Japanese amberjack (<i>Seriola quinqueradiata</i>) in FAO Area 71 is APPROVED for the production of fishmeal and fish oil under the current MarinTrust v2.3 by-products.</p>
Fishery Assessment Peer Review Comments
<p>The assessor correctly assessed Japanese amberjack (<i>Seriola quinqueradiata</i>) in FAO Area 71 under category D, as it appears that there is no stock assessment in FAO Area 71.</p> <p>The peer reviewer agree with the fact that Japanese amberjack was awarded an average Productivity score of 1.67 and an average Susceptibility rating of 2.5, which lead to a PASS rating on Table D3.</p> <p>Therefore, Japanese amberjack in FAO Area 71 is APPROVED for the production of fishmeal and fish oil under the current MarinTrust V2.3 by-products standards.</p>
Notes for On-site Auditor

¹ https://abchan.fra.go.jp/wpt/wp-content/uploads/2022/simple_2022_45.pdf

² <https://fishbase.se/summary/381>

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 a 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 ³	CITES Appendix 1 ⁴
Japanese amberjack	<i>Seriola quinqueradiata</i>	FAO 71	No	D	Least Concern ⁵	No

³ <https://www.iucnredlist.org/>

⁴ <https://cites.org/eng/app/appendices.php>

⁵ <https://www.iucnredlist.org/species/135717/4191586>

CATEGORY D SPECIES

Category D species are those which are not subject to a species-specific management regime. In the case of mixed trawl fisheries, Category D species may make up the majority of landings. The comparative lack of scientific information on the status of the population of the species means that a risk-assessment style approach must be taken.

D1	Species Name		Japanese amberjack (<i>Seriola quinqueradiata</i>)		
	Productivity Attribute		Value	Score	
	Average age at maturity (years)		1.9 years	1	
	Average maximum age (years)		9 years	1	
	Fecundity (eggs/spawning)		Unknown	-	
	Average maximum size (cm)		150cm	2	
	Average size at maturity (cm)		59.7cm	2	
	Reproductive strategy		Broadcast spawner	1	
	Mean trophic level		4	3	
	Average Productivity Score			1.67	
	Susceptibility Attribute		Value	Score	
	Availability (area overlap)		<10%	1	
	Encounterability (the position of the stock/species within the water column relative to the fishing gear)		Targeted	3	
	Selectivity of gear type		Retained	3	
	Post-capture mortality		Retained	3	
	Average Susceptibility Score			2.5	
	PSA Risk Rating (From Table D3)			PASS	
	Compliance rating			PASS	
	Further justification for susceptibility scoring (where relevant)				
	<i>For susceptibility attributes, please provide a brief rationale for scoring of parameters where there may be uncertainty affecting your decision</i>				
<p>Japanese amberjack, computer generated map of global distribution. From fishbase: https://fishbase.se/summary/381</p>					
References					
Fishbase, Japanese amberjack: https://fishbase.se/summary/381					
<i>Standard clauses 1.3.2.2</i>					

Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	High productivity (Low risk, score = 1)	Medium productivity (medium risk, score = 2)	Low productivity (high risk, score = 3)
Average age at maturity	<5 years	5-15 years	>15 years
Average maximum age	<10 years	10-25 years	>25 years
Fecundity	>20,000 eggs per year	100-20,000 eggs per year	<100 eggs per year
Average maximum size	<100 cm	100-300 cm	>300 cm
Average size at maturity	<40 cm	40-200 cm	>200 cm
Reproductive strategy	Broadcast spawner	Demersal egg layer	Live bearer
Mean Trophic Level	<2.75	2.75-3.25	>3.25

Susceptibility attributes	Low susceptibility (Low risk, score = 1)	Medium susceptibility (medium risk, score = 2)	High susceptibility (high risk, score = 3)
Areal overlap (availability) Overlap of the fishing effort with the species range	<10% overlap	10-30% overlap	>30% overlap
Encounterability The position of the stock/species within the water column relative to the fishing gear, and the position of the stock/species within the habitat relative to the position of the gear	Low overlap with fishing gear (low encounterability).	Medium overlap with fishing gear.	High overlap with fishing gear (high encounterability). Default score for target species
Selectivity of gear type Potential of the gear to retain species	a Individuals < size at maturity are rarely caught	a Individuals < size at maturity are regularly caught.	a Individuals < size at maturity are frequently caught
	b Individuals < size at maturity can escape or avoid gear.	b Individuals < half the size at maturity can escape or avoid gear.	b Individuals < half the size at maturity are retained by gear.
Post-capture mortality (PCM) The chance that, if captured, a species would be released and that it would be in a condition permitting subsequent survival	Evidence of majority released post-capture and survival.	Evidence of some released post-capture and survival.	Retained species or majority dead when released.

D3		Average Susceptibility Score		
		1 - 1.75	1.76 - 2.24	2.25 - 3
Average Productivity Score	1 - 1.75	PASS	PASS	PASS
	1.76 - 2.24	PASS	PASS	TABLE D4
	2.25 - 3	PASS	TABLE D4	TABLE D4

D4 Species Name			
Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements			
D4.1	The potential impacts of the fishery on this species are considered during the management process, and reasonable measures are taken to minimise these impacts.		
D4.2	There is no substantial evidence that the fishery has a significant negative impact on the species.		
Outcome:			
Evidence			
D4.1: The potential impacts of the fishery on this species are considered during the management process, and reasonable measures are taken to minimise these impacts.			
D4.2 There is no substantial evidence that the fishery has a significant negative impact on the species.			
References			
Links			
MarinTrust Standard clause		1.3.2.2, 4.1.4	
FAO CCRF		7.5.1	
GSSI		D.5.01	