



MarinTrust Standard V2

By-product Fishery Assessment Goldstripe sardinella (*Sardinella gibbosa*) in FAO 57 and 71, northeast Indian and western Pacific oceans

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Goldstripe sardinella (<i>Sardinella gibbosa</i>)
	Geographical area:	FAO areas 57 and 71
	Country of origin of the product:	Thailand (Flag state: Thailand)
	Stock:	Goldstripe sardinella in FAO areas 57 and 71
Date	21 February 2023	
Report Code	THA48	
Assessor	Matthew Jew	
Country of origin of the product - PASS	Thailand (Flag state: Thailand)	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Company Name(s): ASIAN ALLIANCE INTERNATIONAL PUBLIC COMPANY LIMITED			
Country: Thailand			
Email address:		Applicant Code:	
Certification Body Details			
Name of Certification Body:		Global Trust Certification	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Matthew Jew	Léa Lebechnech	0.5	Initial
Assessment Period	Up to February 2023		

Scope Details	
Main Species	Goldstripe sardinella (<i>Sardinella gibbosa</i>)
Stock	Goldstripe sardinella in FAO areas 57 and 71
Fishery Location	FAO areas 57 and 71
Management Authority (Country/ State)	Ministry of Marine Affairs and Fisheries of the Republic of Indonesia (KKP-RI) and Thailand Department of fisheries
Gear Type(s)	Gear type not provided by client
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. Goldstripe sardinella (<i>Sardinella gibbosa</i>) is not assessed on IUCN’s Red List, and does not appear in CITES appendices; therefore, <i>Sardinella gibbosa</i> is eligible for approval for use as Marin trust by-product raw material.</p> <p>There is national fisheries management framework in Thailand, but that does not extend to the goldstripe sardinella. Due to the lack of data collection and scientific oversight on this stock, catches are not included in the assessment process and reference points for the stock are not defined. Thus, this stock is not subject to a species-specific management regime. Therefore, this stock cannot be assessed under category C and, instead, will be assessed as category D.</p> <p>Table D1 (PSA) shows that the stock as an average productivity score of 1.14 and an average susceptibility score of 3. The PSA risk rating results (Table D3) determined that the species passes.</p> <p>Therefore, goldstripe sardinella in FAO areas 57 and 71 is APPROVED for the production of fishmeal and fish oil under the current MarinTrust v2.0 by-products.</p>
Fishery Assessment Peer Review Comments
<p>The internal peer reviewer agrees with the assessor’s determination, who correctly classified goldstripe sardinella in FAO areas 57 and 71 under Category D, as the stock is not subject to a specific management regime in place and there are no reference points defined.</p> <p>The internal peer reviewer agrees with the result of the PSA risk rating: average productivity score of 1.14 and average susceptibility score of 3.</p> <p>Therefore, goldstripe sardinella in FAO areas 57 and 71, is APPROVED for the production of fishmeal and fish oil under the current MarinTrust v 2.0 by-products standards.</p>
Notes for On-site Auditor
<p>Determine which gear types are used to catch this stock. PSA cannot be precisely applied without accurate harvest information.</p>

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 ¹	CITES Appendix 1 ²
Goldstripe sardinella	<i>Sardinella gibbosa</i>	Goldstripe sardinella in FAO areas 57 and 61	Ministry of Marine Affairs and Fisheries of the Republic of Indonesia (KKP-RI) and Thailand Department of fisheries	D	LC	No

¹ <https://www.iucnredlist.org/>

² <https://cites.org/eng/app/appendices.php>

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		Goldstripe sardinella (<i>Sardinella gibbosa</i>)
	Productivity Attribute		Value
	Average age at maturity (years)		0.8 years
	Average maximum age (years)		3 years
	Fecundity (eggs/spawning)		43,566 eggs per year
	Average maximum size (cm)		20.7 cm
	Average size at maturity (cm)		12.7 cm
	Reproductive strategy		Broadcast spawners
	Mean trophic level		2.9
			Average Productivity Score
			1.14
	Susceptibility Attribute		Value
	Availability (area overlap)		>30%
	Encounterability (the position of the stock/species within the water column relative to the fishing gear)		Gear type not provided by client
	Selectivity of gear type		Gear type not provided by client
	Post-capture mortality		Retained
			Average Susceptibility Score
			3
			PSA Risk Rating (From Table D3)
			PASS
			Compliance rating
			PASS
	Further justification for susceptibility scoring (where relevant)		
	<i>Availability:</i>		
	<i>The stock definition submitted by the client specifies FAO areas 57 and 61. These large geographic areas encompass nearly 70% of the known range of the species.</i>		
			
<i>Encounterability and Selectivity: The gear type was not provided by the client on the application form. These susceptibility attributes were scored using the precautionary approach.</i>			
<i>Post-capture mortality: The species is retained for use in fishmeal and fish oil.</i>			
References			
<i>Sardinella gibbosa</i> (Bleeker, 1849), Goldstripe sardinella: https://fishbase.mnhn.fr/summary/Sardinella-gibbosa.html .			
<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