



MarinTrust Standard V2

By-product Fishery Assessment THA21 – Kawakawa in FAO 51, 57

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

	Species:	Kawakawa (Euthynnus affinis)	
	Geographical area:	FAO 51, 57	
Fishery Under Assessment	Country of origin of the product:	Thailand	
	Stock:	Indian Ocean	
Date	October 2024		
Report Code	THA21		
Assessor	Sam Peacock		
Country of origin of the product - PASS	Thailand		
Country of origin of the product - FAIL		n/a	

Application details and summary of the assessment outcome								
Company Name(s): So	Company Name(s): South East Asian Packaging and Canning Ltd, Chotiwat Manufacturing Public							
Co. Ltd								
Country: Thailand								
Email address: Applicant Code:								
Certification Body Deta	ails							
Name of Certification E	Body:		LRQA					
Assessor Peer Reviewer		Assessment Days	Initial/Surveillance/ Re-approval					
Sam Peacock Sam Dignan 0.2 Surveillance 1								
Assessment Period	No	ovember 2024 -	- November 2025					

Scope Details	
Main Species	Kawakawa (Euthynnus affinis)
Stock	Indian Ocean
Fishery Location	FAO 51, 57
Management Authority (Country/ State)	Indian Ocean Tuna Commission (IOTC)
Gear Type(s)	Purse seine, gillnet, handline, trolling
Outcome of Assessment	
Peer Review Evaluation	Approve
Recommendation	Approve



Table 2. Assessment Determination

Assessment Determination

Kawakawa has been categorised by the IUCN Red List as Least Concern, and it does not appear in the CITES appendices. It is managed using regular stock assessments relative to established target reference points, and was therefore assessed under Category C.

Regular stock assessments are conducted by the Indian Ocean Tuna Commission. The most recent of these was carried out in 2023, using all international landings data. The assessment concluded that stock biomass is very likely to be above the limit reference point level. For these reasons the byproduct continues to meet the MT requirements and should remain approved for use as a raw material.

Fishery Assessment Peer Review Comments

Based on the relevant species not being categorised as Endangered or Critically Endangered on the IUCN Red List or listed in CITES Appendix 1, fishery removals being appropriately included in stock assessment processes, and evidence that the stock biomass is above its limit reference point, continuing approval is appropriate.

Notes for On-site Auditor		



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
Kawakawa	Euthynnus affinis	Indian Ocean	Yes	С	Least Concern ³	No

¹ https://www.iucnredlist.org/

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

³ https://www.iucnredlist.org/species/170336/46649050



CATEGORY C SPECIES

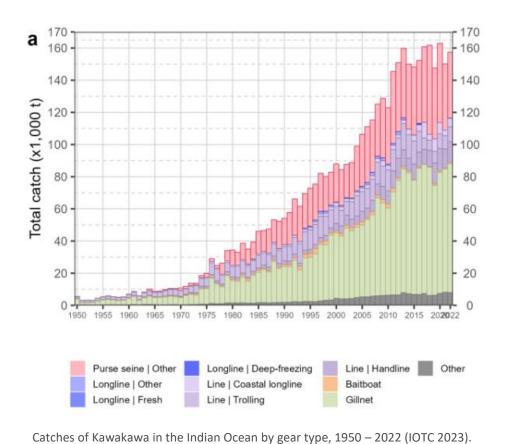
In a by-product assessment, Category C species are those which are subject to a species-specific management regime and are usually targeted species in fisheries for human consumption.

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.

Spe	ecies	Name	Kawakawa (Euthynnus affinis)	
C1	Categ	ory C Stock Sta	atus - Minimum Requirements	
CI	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.			PASS
	C1.2	reference po	s considered, in its most recent stock assessment, to have a biomass above the limit int (or proxy), OR removals by the fishery under assessment are considered by scientific o be negligible.	PASS
			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.

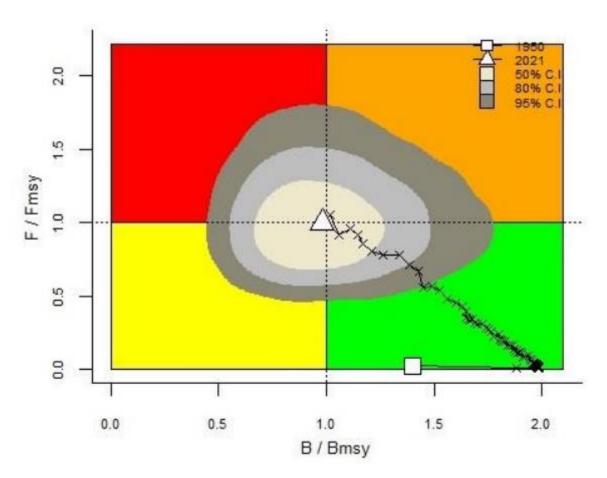
Kawakawa in the Indian Ocean is subject to regular stock assessment by the Indian Ocean Tuna Commission (IOTC). The most recent sock assessment was conducted in 2023, and incorporated all international landings using three stock assessment models. As the stock assessment uses catches only it is considered to have a high degree of uncertainty; however, this uncertainty is included in the assessment outputs (see Kobe chart below). Overall, the stock assessment meets the requirements of C1.1.





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.

As a result of the 2023 stock assessment, it was concluded that stock biomass is very close to B_{MSY} , with B/B_{MSY} estimated to be 0.99. Although this estimate includes a high degree of uncertainty, the 80% confidence interval for $B_{current}/B_{MSY}$ is 0.45-1.20, meaning there is a high degree of certainty that the biomass is currently more than $0.5B_{MSY}$, the default limit reference point value. As biomass is highly likely to be above the limit reference point level, C1.2 is met.



Kobe chart for Kawakawa in the Indian Ocean. Grey shaded areas represent 50%, 80% and 95% confidence intervals for stock status in 2022 (IOTC 2023).

References

IOTC (2023). Stock status executive summary: Kawakawa

https://iotc.org/sites/default/files/content/Stock status/2023/Kawakawa ES 2023.pdf

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



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	n/a						
	Productivity Attribut	e Value	Score					
	Average age at maturity (years)							
	Average maximum age (years)							
	Fecundity (eggs/spawning)							
	Average maximum size (cm)							
	Average size at maturity (cm)							
	Reproductive strategy							
	Mean trophic level							
		Average Productivity Score						
	Susceptibility Attribu	te Value	Score					
	Availability (area overlap)							
	Encounterability (the position of the s							
	within the water column relative to the	e fishing gear)						
	Selectivity of gear type							
	Post-capture mortality							
		Average Susceptibility Score						
		PSA Risk Rating (From Table D3)						
		Compliance rating						
	Further justification for susceptibility scoring (where relevant) For susceptibility attributes, please provide a brief rationale for scoring of parameters where there may be							
	uncertainty affecting your decision							
Refere	ences							
Stando	ard clauses 1.3.2.2							



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				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	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	position of the ek/species within water column tive to the fishing r, and the position he stock/species iin the habitat tive to the position		edium overlap with hing gear.	fis en De	igh overlap with hing gear (high neounterability). efault score for rget species		
Selectivity of gear type	а	Individuals < size at maturity are rarely caught	а	Individuals < size at maturity are regularly caught.	а	Individuals < size at maturity are frequently caught	
Potential of the gear to retain species	b	Individuals < size at maturity can escape or avoid gear.	Ь	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	re	ridence of majority eased post-capture d survival.	rel	idence of some eased post-capture d survival.	m	etained species or ajority dead when leased.	



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

D4	94 Species Name n/a						
	Impac	ts On Species Categorise	ed 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 reasonab	le measures are taken to minimise these impacts.				
	D4.2	There is no substantia species.	al evidence that the fishery has a significant negative impact on the				
			Outcome:				
Eviden	ice						
D4.2 T	here is r	no substantial evidence	that the fishery has a significant negative impact on the species.				
Refere	ences						
Links							
Marin [*]	Trust Sta	andard clause	1.3.2.2, 4.1.4				
FAO C	CRF		7.5.1				

D.5.01

GSSI