



MarinTrust Standard V2

By-product Fishery Assessment, THA21, Kawakawa in the Indian Ocean

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

	Species:	Kawakawa (Euthynnus affinis)	
	Geographical area:	Western Pacific and Indian Ocean, FAO Areas 51 & 57	
Fishery Under Assessment	Country of origin of the product:	Thailand	
	Stock:	Indian Ocean	
Date	November 2023		
Report Code		THA21	
Assessor		Sam Peacock	
Country of origin of the product - PASS		Thailand	
Country of origin of the product - FAIL	Geographical area: Western Pacific and Indian Ocean, FAO Area 51 & 57 Country of origin of the product: Stock: Indian Ocean November 2023 THA21 Sam Peacock Thailand	n/a	

Application details and	Application details and summary of the assessment outcome						
Company Name(s): Go	olden Prize Canning Co I	Ltd, South East	Asian Packaging and Canning Ltd				
Country:							
Email address:		Applicant Code	e:				
Certification Body Deta	ails						
Name of Certification I	Body:	LRQA					
		Assessment	Initial/Surveillance/				
Assessor	Peer Reviewer	Days	Re-approval				
	Days						
Sam Peacock Jose Peiro Crespo 0.2 Re-approval							
Assessment Period	Assessment Period November 2023 – October 2024						

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



Table 2. Assessment Determination

Assessment Determination

Kawakawa, also known as mackerel tuna, has been categorised by the IUCN Red List as a species of Least Concern, and does not appear in the CITES appendices. Kawakawa in the Indian Ocean is managed by the Indian Ocean Tuna Commission relative to established reference points, and therefore was assessed under Category C.

The most recent stock assessment remains the one identified in the 2022 MT surveillance assessment, conducted in 2021, and therefore continues to meet the Category C requirements. An updated assessment is due this year, but has not yet been published. The 2021 stock assessment takes account of international catch data and concluded that stock biomass was above the target and limit reference points. The by-product should continue to be approved for use as a raw material in MT-certified marine ingredients.

Fishery Assessment Peer Review Comments

The by-product fishery under assessment is Kawakawa (*Euthynnus affinis*) purse seine, gillnet, hand line and trolling fisheries in FAO Areas 51 and 57 (Eastern and Western Indian Ocean). The species is classified as LC by the IUCN. The stock is managed relative to biomass-based reference points and therefore it is first assessed as a category C species.

The most recent stock assessment conducted in 2021 by the IOTC for the species indicates that the stock is above the target reference point (B_{MSY}). Therefore, it passes category C.

The peer review supports the auditor's recommendation to pass the Kawakawa purse seine, gillnet, hand line and trolling fisheries in FAO areas 51 and 57 under the Marin Trust IFFO RS v2.0 by-fishery standard for the production of fishmeal and fish oil.

Notes for Oil-site Additor		
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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/170336/6753804



CATEGORY C SPECIES

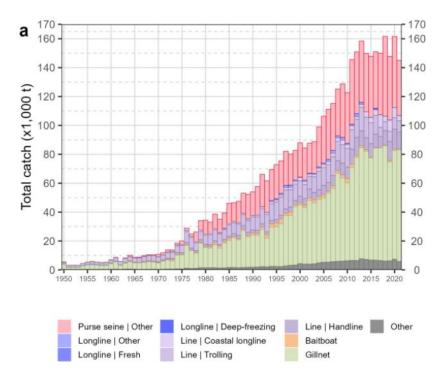
In a by-product assessment, Category C species are those which are subject to a species-specific management regime and are usually targeted species in fisheries for human consumption.

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	
C1	Categ	ory C Stock Sta	atus - Minimum Requirements	
CI	C1.1	-	ovals of the species in the fishery under assessment are included in the stock assessment 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 is subject to regular stock assessment by the Indian Ocean Tuna Commission (IOTC). The most recent assessment remains the one identified in previous MT assessments, conducted in 2020 (an updated assessment is scheduled for 2023 but has not yet been published). As the stock assessment remains unchanged, it continues to meet the requirements of C1.1; fishery removals are considered, with the average annual international landings between 2017 and 2021 estimated to be 153,645t (IOTC 2022).

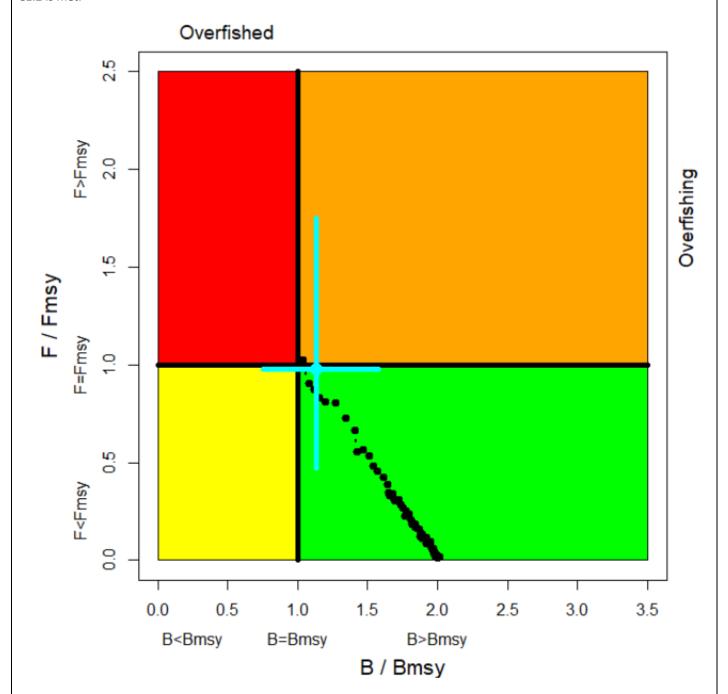


Time series of kawakawa catches by gear type, 1950 – 2021 (IOTC 2022)

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 most recent stock assessment continues to be the one identified by the 2021 MT surveillance assessment, in which the Indian Ocean Kawakawa stock was determined to not be overfished nor subject to overfishing with a probability of 50%. Biomass was estimated to be 1.13 times larger than B_{MSY}. Stock biomass is estimated to be above the target and limit reference points and C1.2 is met.



Kobe plot for Kawakawa in the Indian Ocean. The blue cross represents the estimated stock status in 2018 (median and 80% Confidence Interval) (IOTC 2022).

References

IOTC (2022). Kawakawa stock assessment and current status, Executive Summary. https://iotc.org/sites/default/files/content/Stock status/2022/Kawakawa2022E.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	ne fishing gear)		
	Selectivity of gear type			
	Post-capture mortality			
			Average Susceptibility Score	
			PSA Risk Rating (From Table D3)	
			Compliance rating	
	Further justification for susceptibility		-	
	For susceptibility attributes, please pr	ovide a brief ration	ale for scoring of parameters wher	e 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		ow susceptibility		edium susceptibility		igh susceptibility	
attributes	(L	ow risk, score = 1)	(m	nedium risk, score = 2)	(h	igh risk, score = 3)	
Areal overlap (availability) Overlap of the fishing effort with the species range	<1	<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	fis	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	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.	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	re	vidence of majority leased post-capture ld survival.	re	vidence of some leased 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	4 Species Name n/a							
	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 reasonab	ole 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	nce							
D4.2 T	here is r	no substantial evidence	that the fishery has a significant negative impact on the species.					
Refere	ences							
Links			<u>, </u>					
Marin	Trust Sta	andard clause	1.3.2.2, 4.1.4					
FAO C	CRF		7.5.1					

D.5.01

GSSI