

MarinTrust Standard V2

By-product Fishery Assessment ZAF04 - Japanese Pilchard *(Sardinops sagax melanostictus)* in FAO 61 (Japanese Pacific Ocean stock)

MarinTrust Programme Unit C, Printworks 22 Amelia Street London SE17 3BZ E: <u>standards@marin-trust.com</u> T: +44 2039 780 819



Table 1 Application details and summary of the assessment outcome

	Species:	Japanese pilchard (Sardinops sagax melanostictus)			
Fishery Under	Geographical area:	FAO 61, northwest Pacific			
Assessment	Country of origin of the product:	South Africa (Flag state: Thailand)			
	Stock:	Japanese sardine Pacific stock			
Date	April 2024				
Report Code	ZAF04				
Assessor	Ana Elisa Almeida Ayres				
Country of origin of the product - PASS	South Africa (Flag state: Thailand)				
Country of origin of the product - FAIL	NA				

Application details and summary of the assessment outcome							
Company Name(s): West Point Processors, St Helena Bay (Lucky Star Ltd), Amawandle Pelagic							
(Pty) Ltd							
Country: South Africa (Flag state: Thailand)							
Email address:	Email address: Applicant Code:						
Certification Body Details							
Name of Certifica	Name of Certification Body: Global Certification Trust/NSF						
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/Re-approval				
Ana Elisa Almeida Ayres	Matthew Jew	0.5 Initial					
Assessment Period	April 2024 – April 2025						

Scope Details	
Main Species	Japanese pilchard (Sardinops sagax melanostictus)
Stock	Japanese sardine Pacific stock
Fishery Location	FAO 61, northwest Pacific
Management AuthorityMinistry of Agriculture, Forestry, and Fisheries (Japan), North (Country/State)Pacific Fisheries Commission - NPFC	
Gear Type(s)	Not provided by client, but NPFC Members usually use purse seines, pelagic trawling, set nets and dip nets)
Outcome of Assessment	
Peer Review Evaluation Agree with assessor's recommendations	
Recommendation APPROVED	

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Table 2. Assessment Determination

Assessment Determination

Japanese pilchard is also known as Japanese sardine or South American pilchard and is widely referred to via the binomial name *Sardinops sagax*. 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 MarinTrust raw material. Japanese pilchard (*Sardinops sagax melanostictus*) is not categorised as Endangered or Critically Endangered on IUCN's Red List and does not appear in CITES appendices; therefore, Japanese pilchard (*Sardinops sagax melanostictus*) is eligible for approval for use as MarinTrust byproduct raw material.

The Japanese pilchard/sardine Pacific stock is distributed within the North Pacific Fisheries Commission - NPFC Convention Area, yet currently, there is no stock assessment for Japanese Sardine conducted by NPFC for this region. The most recent stock assessment published for this stock was carried out in 2020 by the Fisheries Stock Assessment Center, Fisheries Resources Institute, Japan Fisheries Research and Education Agency, however, several results from the upcoming 2023 stock assessment were presented during the 8th Scientific Committee Meeting held in December 2023.

As the Japanese pilchard/sardine Pacific stock is subject to regular stock assessment and managed relative to established reference points, it was assessed under Category C. Fishery removals of the species in the fishery under assessment are included in the stock assessment process, thus it passed C.1.1. The species is considered to have a biomass above the limit reference point, it passed C.1.2.

Therefore, Japanese pilchard (*Sardinops sagax melanostictus*) from Japanese sardine Pacific stock in FAO 61, northwest 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 Japanese pilchard (*Sardinops sagax melanostictus*) from Japanese sardine Pacific stock as Category C, the stock is subject to a specific management regime and reference points (or proxies) are defined.

Fishery removals are considered in the stock assessment process. The most recent stock assessment shows that the stock is above SSB_{MSY} and therefore also above a biomass limit reference point. Thus, the stock has biomass above the limit reference point, it passes Category C.

Japanese pilchard (*Sardinops sagax melanostictus*) from Japanese sardine Pacific stock passes both clauses (C1.1 and 1.2) and therefore should be approved under the MarinTrust Standard v.2.3.

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
Japanese	Sardinops	Japanese	Yes	С	LC ³	No
pilchard	sagax	sardine Pacific				
	melanostictus	stock				

¹ <u>https://www.iucnredlist.org/</u>

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

³ https://www.iucnredlist.org/species/183347/143831586

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CATEGORY C SPECIES

2023).

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	Japan	ese pilchai	d <i>(Sardino</i> j	os sagax mel	anostictus)			
C1	-		atus - Minimum	Requireme	ents					
CI	C1.1	Fishery remo	vals of the speci	es in the fi	shery unde	assessment	are included	d in the stoo	ck assessment	PASS
			are considered b							
	C1.2 The species is considered, in its most recent stock assessment, to have a biomass above the limit PASS reference point (or proxy), OR removals by the fishery under assessment are considered by scientific							PASS		
				R removals	s by the fish	ery under as	sessment are	e considere	d by scientific	
		authorities to	o be negligible.					Cla		PASS
C1 1 I	lichory	romovals of th	ne species in the	fichory u	ndor accoss	mont aro in	cluded in th		use outcome:	
	-		horities to be ne	-		ment are m		e slock ass	essment proce	ss, OK ale
utilize 2023 press) catche	e catch c stock as , incorp	lata along with ssessment emp orating foreign	d during the 8 th h life history cha oloyed tuned Vin h catches from C f catches of Japa	racteristic rtual Popu hina and R	s sampled f lation Analy ussia, along	rom the catc sis (VPA) and with certain	h. According d MSY-based assumption	g to Scientif d reference s about the	fic Committee (points (Furuicl age compositic	2023), the ni et al., in
Catch (10 thousand ton)	200 -								becially in e nce 2020	
10	100 -					East of I	Mie Pref		RU	
Catch (] West of 1	Wakayama	Pref.	China	
	19	975 1980	1985	1990	1995	2000	2005	2010	2015	2020
	- 1 - Cal	tches of lana	nese pilchard/	sardine P	acific stor	nresented	in 8 th Scie	ntific Com	mittee Meeti	ng (NDEC

Fishery removals of the species in the fishery under assessment are included in the stock assessment process. C.1.1 is met.

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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.

Recruitment, biomass, and spawning stock biomass (SSB) have shown a steady upward trend since 2010 (Figure 2). Over the past five years (2018-2022), SSB has consistently exceeded SSBmsy, which is estimated at 1.19 million ton (NPFC, 2023). In 2022, estimated total biomass was 4.91 million ton and SSB was 2.41 million ton (NPFC, 2023). However, fishing mortality (F) has been on the rise during this period, surpassing Fmsy levels.

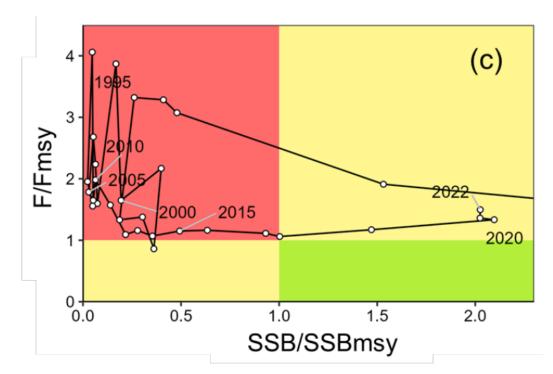


Figure 2. Kobe plot indicating historical and current status of Japanese pilchard/sardine in relation to MSY-based reference points provided by Scientific Committee (2023), reprinted from Japan's domestic stock assessment of Japanese pilchard/sardine (Furuichi et al. in press).

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

References

FRA (2020). Stock Assessment of Japanese Sardine Pacific Stock in 2020, Japan Fisheries Research and Education Agency (FRA). http://www.fra.affrc.go.jp/shigen hyoka/peer review/2020/23.pdf

Furuichi, S., Yukami. R., Kamimura, Y., Nishijima, S., Watanabe, R., Isu, S., & Higashiguchi, K. (in press) Stock assessment and evaluation for Japanese Sardine Pacific stock (fiscal year 2023). In Marine Fisheries Stock Assessment and Evaluation for Japanese Waters (fiscal year 2023/2024). Japan Fisheries Agency and Fisheries Research and Education Agency of Japan. Tokyo, 51pp. (will be published at https://abchan.fra.go.jp/hyouka/doc2023/)

NPFC. 2023. Domestic Stock Assessment of Japanese Sardine in Japan. <u>https://www.npfc.int/system/files/2023-12/NPFC-2023-</u> SC08-IP04%20JapaneseStockAssessment JapaneseSardine.pdf

Scientific	Committee.	2023.	8th	Meeting	Report.	NPFC-2023-SC08-Final	Report.	291	pp.
https://ww	w.npfc.int/sites/	default/file	<u>s/2024-</u>	<u>03/SC08%20R</u>	<u>eport.pdf</u>				
Links									

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

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