

## MarinTrust Standard V2

## By-product Fishery Assessment Report Template

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# Table 1 Application details and summary of the assessment outcome

	Species:	Japanese Pilchard, Sardinops melanostictus~ Sardinopsis sagax	
	Geographical area:	FAO Area 77 Pacific, Eastern Central	
Assessment	Country of origin of the product:	Thailand	
	Stock:	Pacific Ocean and Tsushima Warm Current Japanese pilchard stocks	
Date	24/09/2021		
Report Code	BP188		
Assessor	Virginia Polonio		
Country of origin of the product - PASS	Thailand		
Country of origin of the product - FAIL	NA		

Application details and summary of the assessment outcome				
Name:				
Address:				
Country: Thailand		Zip:		
Tel. No.:		Fax. No.:		
Email address:		Applicant Code:		
Key Contact:		Title:		
Certification Body Details				
Name of Certification I	Body:	Global Trust certification		
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval	
Virginia Polonio Geraldine Criquet		0.5	Surveillance 2	
Assessment Period	Assessment Period To September 2021			

Scope Details				
Main Species	Japanese Pilchard Sardinops melanostictus~ Sardinopsis sagax			
Stock	Pacific Ocean and Tsushima Warm Current Japanese pilchard stocks			
Fishery Location	FAO Area 77 Pacific, Eastern Central			
Management Authority	Management Entities: Japan Fisheries Agency, Ministry of			
(Country/ State)	Agriculture, Forestry and Fisheries (MAFF)			
Gear Type(s)	Purse seine			
Outcome of Assessment				
Peer Review Evaluation	Agree with the assessor's recommendation of approval			
Recommendation	APPROVED			

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### Table 2. Assessment Determination

#### **Assessment Determination**

If any species is categorised as Endangered or Critically Endangered on the IUCN Red List, or if it appears in the CITES appendices, it cannot be approved for use as MarinTrust raw material. Japanese Pilchard does not appear as Endangered or Critically Endangered on the IUCN Red List, nor does it appear in CITES appendices, therefore Japanese Pilchard is eligible for approval for use as MarinTrust raw material.

There are two stocks Pacific Ocean stock and the Tsushima Warm Current Stock. Both stocks are assessed separately but managed together under a single TAC for combined stocks. Annual stock assessment is undertaken by the Central Fisheries Research Institute of Japan's Fisheries Research Agency (FRA). Stocks are subject to a specific research and management regime, therefore are classified as Category C. There has not been a new stock assessment since 2018. In 2021 a forecast with the main results of several surveys is presented but there is no new information available to assess the stock related to reference points. Both stocks have passed the category C clauses.

Pacific Ocean and the Tsushima Warm Current Japanese pilchard stocks are approved for the production of fishmeal and fish oil under the MarinTrust v 2.0 by-products standard.

Fishery Assessment Peer Review Comments

The assessor correctly classified the Pacific Ocean and the Tsushima Warm Current Japanese pilchard stocks as category C, reference points are defined to assess status of the stocks relative to.

Fishery removals are included in the stock assessment process so both stocks PASS Clause C1.1. The Pacific Ocean and the Tsushima Warm Current Japanese pilchard stocks are considered, in their most recent stock assessment, to have a biomass above the limit reference point, it PASS Clause C1.2. Therefore, the Pacific Ocean and the Tsushima Warm Current Japanese pilchard stocks should be approved.

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 <sup>1</sup>	CITES Appendix 1 <sup>2</sup>
Japanese pilchard	Sardinops sagax (synonym S. melanostictus)	Pacific Ocean stock and Tsushima warm current stock	Central Fisheries Research Institute of Japan's Fisheries Research Agency (FRA).	С	LC	No

<sup>&</sup>lt;sup>1</sup> <u>https://www.iucnredlist.org/</u>

<sup>&</sup>lt;sup>2</sup> <u>https://cites.org/eng/app/appendices.php</u>

## **CATEGORY C SPECIES**

In a whole fish assessment, Category C species are those which make up less than 5% of landings, but which are subject to a species-specific management regime. In most cases this will be because they are a commercial target in a fishery other than the one under assessment.

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	Japanese pilchard, Sardinops Sagax (synonym S.melanostictus)			
<b>C1</b>	C1 Category C Stock Status - Minimum Requirements					
CI	C1.1	Fishery remo process, OR a	ivals of the species in the fishery under assessment are included in the stock assessment are considered by scientific authorities to be negligible.	Yes		
	C1.2	The species is 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	Yes		
		authorities to	Clause outcome:	ΡΔςς		
C1.1 I consid	Fishery dered b	removals of th y scientific aut	ne species in the fishery under assessment are included in the stock assessment proces shorities to be negligible.	s, OR are		
For bo comp surve	oth stoc osition i ys of juv	ks, key sources in survey catch veniles), and fis	s of input data include total landings, numbers of fish caught by age and year (based on bo ses and market landings), egg production (based on research surveys), a recruitment index sh distributions (based on pelagic fish surveys).	ody length (based on		
Purse indep indep	Purse seine vessel CPUE is used as an abundance indicator (Furuichi et al. 2018). The pelagic fish surveys appear to be fishery- independent and may include adults, but survey data are used to determine fish distributions rather than to generate a fishery- independent abundance index.					
There fisher	Therefore, fishery removals of the species in the fishery under assessment are included in the stock assessment process and the fishery <b>PASSES</b> clause C1.1					
C1.2 T proxy	The spe ), OR re	cies is conside movals by the	ered, in its most recent stock assessment, to have a biomass above the limit reference fishery under assessment are considered by scientific authorities to be negligible.	point (or		
The la 2,150 The b assess The b	The last report available in FRA shows that the biomass in 2019 was set at 4,061,000 tons assuming a recruitment in 2017 set at 2,150,000 tons hence, recruitment has been considered relatively high in recent years. The biomass displays an increasing trend. The limit reference point B <sub>limit</sub> is still defined at 221,000 tons and in the last stock assessment this limit is kept until 2024. Fishing mortality has been defined at 0.24, 20% less than previous years (Figure 1). The biomass is well above the limit reference point since 2013.					
There proxy	Therefore, the species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy) and it <b>PASSES</b> clause C1.2					





**Figure 1.** Stock assessment of Japanese sardine S. melanostictus over the period 1976 – 2017. Blue line shows biomass, red line shows catch ratio. Left scale shows stock volume (million tonnes, t) and right scale shows catch ratio (%). Catch ratio is the ratio of catch volume to resource volume. Source: FRA- Fy2018 National Resource Assessment Report Meeting Material 1-1.

#### Tsushima warm current stock

The last report available in FRA shows that the biomass in 2019 was set at 711,000 tons assuming a recruitment in 2017 set at 197,000 tons, hence, recruitment has been considered relatively high in recent years.

The biomass displays an increasing trend. The limit reference point Blimit is still defined at 100,000 tons and in the last stock assessment this limit is kept until 2024. Fishing mortality has been defined at 0.25, 20% less than previous years. The resource levels have been classified at a medium level with increasing trends in biomass and recruitment (figure 2). The biomass is well above the limit reference point since 2011.

Therefore, the species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy) and it **PASSES** clause C1.2



**Figure 2.** Stock assessment of Japanese sardine S. melanostictus over the period 1976 – 2017. Blue line shows biomass, red line shows catch ratio. Left scale shows stock volume (million tonnes, t) and right scale shows catch ratio (%). Catch ratio is the ratio of catch volume to resource volume. Source: FRA- Fy2018 National Resource Assessment Report Meeting Material 1-1.

References



Gaughan, D., Di Dario, F. & Hata, H. 2018. Sardinops sagax (errata version published in 2019). The IUCN Red List of Threatened Species 2018: e.T183347A143831586. https://dx.doi.org/10.2305/IUCN.UK.2018-2.RLTS.T183347A143831586.en.

Furuichi, S., C. Watanabe, R. Yukami, Y. Uemura, C. Isu, and M. Udagawa. 2018. 2017 stock assessment of the Japanese Pacific stock of Japanese pilchard. Fisheries Research and Education Agency of Japan

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