

MarinTrust Standard V2

By-product Fishery Assessment Report Template

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Table 1 Application details and summary of the assessment outcome

	Species:	Bali sardinella, Sardinella lemuru
	Geographical area:	FAO 57 Indian Ocean, Eastern
Fishery Under Assessment	Country of origin of the product:	Thailand
	Stock:	Southern Java to Western of Timor Sea
Date	18/10/2021	
Report Code	BP205	
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 asses	sment outcome	
Name:			
Address:			
Country: Thailand		Zip:	
Tel. No.:		Fax. No.:	
Email address:		Applicant Cod	e:
Key Contact:		Title:	
Certification Body Deta	ails		
Name of Certification	Body:	Global Trust C	ertification
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Virginia Polonio	Geraldine Criquet	0.5	Re-approval
Assessment Period	To October 2021		

Scope Details	
Main Species	Bali sardinella, Sardinella lemuru
Stock	Eastern Southern Java to Western of Timor Sea
Fishery Location	FAO Area 57 Indian Ocean, Eastern
Management Authority	Ministry of Marine Affairs and Fisheries of the Republic of
(Country/ State)	Indonesia (KKP-RI) and Thailand Department of fisheries
Gear Type(s)	Purse seine
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 IUCN's Red List, or if it appears in the CITES appendices, it cannot be approved for use as MarinTrust raw material. Bali sardinella *Sardinella lemuru*, do not appear as Endangered or Critically Endangered on IUCN's Red List, nor do they appear in CITES appendices; therefore, Bali sardinella *Sardinella lemuru* in FAO Area 57 is eligible for approval for use as MarinTrust by-product raw material.

A management plan was implemented for this stock in 2016 through a stakeholder approach. An agreed catch limit was implemented, however there are no biomass reference points defined for this stock. Hence, due to the lack of scientific information on the status of the stock, a risk-assessment style approach was taken. Therefore, the stock has been assessed under category D.

Table D1 (PSA) has achieved a PASS therefore, the average for the PSA risk rating results in the species passing D1.

Bali sardinella *Sardinella lemuru* in FAO area 57 is **APPROVED** for the production of fishmeal and fish oil under the current MarinTrust v 2.0 by-products standard.

Fishery Assessment Peer Review Comments

The assessor correctly classified Bali sardinella in FAO Area 57 Indian Ocean Eastern as category D, reference points are not defined to assess status of the stock relative to.

With an average productivity score of 1 and an average susceptibility score of 2.75, the Bali sardinella in FAO Area 57 Indian Ocean Eastern PASSES Clause D1 in accordance with Table D3.

Therefore, the Bali sardinella in FAO Area 57 Indian Ocean Eastern 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 Redlist 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
Bali sardinella	Sardinella lemuru	Indian Ocean	Ministry of Marine Affairs and Fisheries of the Republic of Indonesia (KKP-RI) and Thailand Department of fisheries	D	NT	No

¹ <u>https://www.iucnredlist.org/</u>

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

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CATEGORY D SPECIES

Category D species are those which make up less than 5% of landings and 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.



Species Name	Bali sardinella (Sardinella lemuru)	
Productivity Attrik	oute Value	Score
Average age at maturity (years)	0.9	1
Average maximum age (years)	3.3	1
Fecundity (eggs/spawning)	Not known	-
Average maximum size (cm)	23 cm	1
Average size at maturity (cm)	15 cm	1
Reproductive strategy	Non-guarders: open water/substratum egg scatterers	1
Mean trophic level	2.4	1
	Average Productivity Score	1
Susceptibility Attri	bute Value	Score
Overlap of adult species range with fis	hery Stock distributed in the FAO areas	
	51 and 57 (see the figure 1	3
	below)	
Distribution	Throughout region	Not score
Habitat	Pelagic	2
Depth range	15-100 m	3
Selectivity	1 to 2 times mesh sizes	2
Post-capture mortality	Most dead	3
	Average Susceptibility Score	2.75
	PSA Risk Rating (From Table D3)	PASS
	Compliance rating	PASS

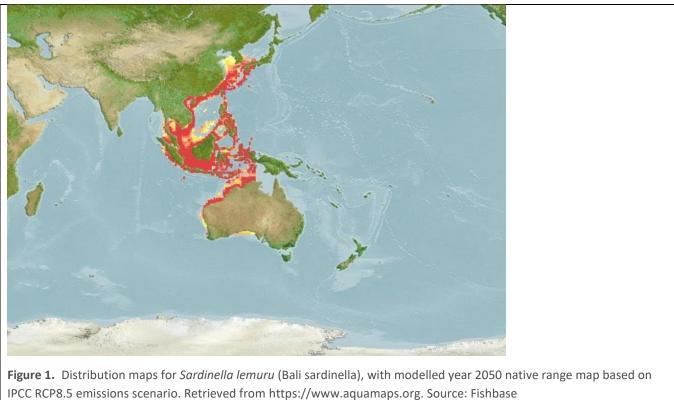
References

Santos, M. 2018. *Sardinella lemuru* (errata version published in 2019). The IUCN Red List of Threatened Species 2018: e.T75154879A143836046. <u>https://dx.doi.org/10.2305/IUCN.UK.2018-2.RLTS.T75154879A143836046.en</u>

CITES http://checklist.cites.org/#/en

https://www.fishbase.de/summary/Sardinella-lemuru.html





Standard clauses 1.3.2.2



Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	Low productivity/ High risk	Medium productivity/ Medium risk	High productivity/ Low risk
	Score 3	Score 2	Score 1
Average age at maturity (years)	>4	2 to 4	<2
Average maximum age (years)	>30	10 to 30	<10
Fecundity (eggs/spawning)	<1 000	1 000 to 10 000	>10 000
Average maximum size (cm)	>150	60 to 150	<60
Average size at maturity (cm)	>150	30 to 150	<30
Reproductive strategy	Live bearer, mouth brooder or significant parental investment	Demersal spawner "berried"	Broadcast spawner
Mean trophic level	>3.25	2.5-3.25	<2.5

Susceptibility at	tribu	ites	High susceptibility/ High risk	Medium susceptibility/ Medium risk	Low susceptibility/ Low risk	
			Score 3	Score 2	Score 1	
Availability	1)	Overlap of adult species range with fishery	>50% of stock occurs in the area fished	Between 25% and 50% of the stock occurs in the area fished	<25% of stock occurs in the area fished	
	2)	Distribution	Only in the country/ fishery	Limited range in the region	Throughout region/ global distribution	
Encounterability	1)	Habitat	Habitat preference of species make it highly likely to encounter trawl gear (e.g. demersal, muddy/sandy bottom)	Habitat preference of species make it moderately likely to encounter trawl gear (e.g. rocky bottom/reefs)	Depth or distribution of species make it unlikely to encounter trawl gear (e.g. epi-pelagic or meso-pelagic)	
	2)	Depth range	High overlap with trawl fishing gear (20 to 60 m depth)	Medium overlap with trawl fishing gear (10 to 20 m depth)	Low overlap with trawl fishing gear (0 to 10 m, >70 m depth)	
Selectivity			Species >2 times mesh size or up to 4 m length	Species 1 to 2 times mesh size or 4 to 5 m length	Species <mesh or<br="" size="">>5 m length</mesh>	
Post capture mortality			Most dead or retained Trawl tow >3 hours	Alive after net hauled Trawl tow 0.5 to 3 hours	Released alive Trawl tow <0.5 hours	

Note: Availability 2 is only used when there is no information for Availability 1; the most conservative score between Encounterability 1 and 2 is used.

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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	Spe	cies Name				
	Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements					
	D4.1		of the fishery on this species are considered during the management le measures are taken to minimise these impacts.			
	D4.2	There is no substantia species.	I evidence that the fishery has a significant negative impact on the			
	•		Outcome:			
	The pot	ential impacts of the fi easures are taken to mir	shery on this species are considered during the management proces imise these impacts.	ss, and		
D4.1: reasor	The pot nable me	easures are taken to mir		ss, and		
D4.1: reasor	The pot nable me There is r	easures are taken to mir	imise these impacts.	ss, and		
D4.1: reasor D4.2 T	The pot nable me There is r	easures are taken to mir	imise these impacts.	ss, and		
D4.1: reasor D4.2 T Refere	The pot nable me There is r	easures are taken to mir	imise these impacts.	ss, and		
D4.1: reasor D4.2 T Refere	The pot nable me There is r ences	easures are taken to min	imise these impacts. that the fishery has a significant negative impact on the species.	ss, and		