

MarinTrust Standard V2

By-product Fishery Assessment Report Template

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Table 1 Application details and summary of the assessment outcome

	Species:	European Sardine, Sardina pilchardus
	Geographical area:	FAO Area 27 Atlantic Northeast
Fishery Under Assessment	Country of origin of the product:	UK & Ireland
	Stock:	ICES subareas 7
Date		19/08/2021
Report Code		BP 156
Assessor		Virginia Polonio
Country of origin of the product - PASS		UK & Ireland
Country of origin of the product - FAIL		NA

Application details an	d summary of the ass	sessment outcome	2
Name: Pelagia Killybeg	s only		
Address:			
Country: UK & Ireland		Zip:	
Tel. No.:		Fax. No.:	
Email address:		Applicant Cod	le:
Key Contact:		Title:	
Certification Body Det	tails		
Name of Certification	Body:	Global Trust C	Certification
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Virginia Polonio	Sam Dignan	0.5	Re-approval
Assessment Period	August 2021		

Scope Details	
Main Species	European Sardine, Sardina pilchardus
Stock	ICES subarea 7
Fishery Location	FAO 27 Atlantic Northeast
Management Authority (Country/ State)	European Union, CEFAS and DAFM
Gear Type(s)	Purse seines and pelagic trawls
Peer Review Evaluation	Agree with recommendation to approve.
Recommendation	APPROVE



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 Marin Trust raw material. Sardine (*Sardina pilchardus*) do not appear as Endangered or Critically Endangered on IUCN's Red List, nor do they appear in CITES appendices; therefore, Sardine is eligible for approval for use as Marin Trust by-product raw material.

One stock forms part of this assessment:

ICES Subarea 7

There is currently no biomass or recruitment index for the whole of Subarea 7. The only available index comes from a survey that partially covers divisions 7.e and 7.f and is not considered sufficient to evaluate the stock biomass and exploitation status. Therefore, ICES is not aware of any agreed precautionary management plan for sardine in this area. Further, ICES cannot provide catch advice for this stock because of lack of reliable landings data. The level of discarding is unknown, and probably quite variable.

The comparative lack of scientific information on the status of the population of the species means that a riskassessment style approach must be taken. Consequently, the stock has been assessed under Category D.

The compliance rating for PSA has achieved a PASS. Hence, Sardine (*Sardina pilchardus*) in ICES Subarea 7 is **APPROVED** for the production of fishmeal and fish oil under the current Marin Trust v 2.0 by-products standard

Fishery Assessment Peer Review Comments

Agree with recommendation to approve.

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
European Sardine	Sardina pilchardus	ICES subarea 7	EU, CEFAS and DAFM	D	LC	No

¹ <u>https://www.iucnredlist.org/</u>

² <u>https://cites.org/eng/app/appendices.php</u>

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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.

L	Species Name	European Sardine, Sardina pilchardus	
	Productivity Attribut	e Value	Score
Γ	Average age at maturity (years)	1.7	1
Γ	Average maximum age (years)	5.9	1
Γ	Fecundity (eggs/spawning)	156,525 [50,000-490,000]	1
Γ	Average maximum size (cm)	27.5	1
Γ	Average size at maturity (cm)	14.8	1
	Reproductive strategy	Non-guarders	
		open water/substratum egg	1
		scatterers	
Γ	Mean trophic level	3.1	2
Γ		Average Productivity Score	1.15
	Susceptibility Attribut	te Value	Score
Γ	Overlap of adult species range with fisher	ry NA	
Γ	Distribution	Global distribution	1
Γ	Habitat	Pelagic	1
Γ	Depth range	20-60 m	Not used
Γ	Selectivity	Up to 4 m	3
Γ	Post-capture mortality	Retained	3
Γ	· · · · · ·	Average Susceptibility Score	2.25
Γ		PSA Risk Rating (From Table D3)	PASS
		Compliance rating	PASS

References



Figure 1. Global distribution of Sardine. Source: Scarponi, P., G. Coro, and P. Pagano. A collection of Aquamaps native layers in NetCDF format. Data in brief 17 (2018): 292-296.

ICES. 2019. Sardine (*Sardina pilchardus*) in Subarea 7 (southern Celtic Seas and the English Channel). In Report of the ICES Advisory Committee, 2019. ICES Advice 2019, pil.27.7. <u>https://doi.org/10.17895/ices.advice.4854</u>.

https://www.fishbase.se/summary/1350



Tous, P., Sidibé, A, Mbye, E., de Morais, L., Camara, Y.H., Adeofe, T.A., Munroe, T., Camara, K., Cissoko, K., Djiman, R., Sagna, A. & Sylla, M. 2015. Sardina pilchardus. The IUCN Red List of Threatened Species 2015: e.T198580A15542481. https://dx.doi.org/10.2305/IUCN.UK.2015-4.RLTS.T198580A15542481.en. 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	tributes	High susceptibility/ High risk	Medium susceptibility/ Medium risk	Low susceptibility/ Low risk	
		Score 3	Score 2	Score 1	
Availability	 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.



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		
	Impac	ts On Species Categorise	ed 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.	al evidence that the fishery has a significant negative impact on the	
			Outcome:	
	The pot		shery on this species are considered during the management proces	s, and
D4.1: reasor	The pot nable me	easures are taken to mir		s, and
D4.1: reasor	The pot nable me here is r	easures are taken to mir	imise these impacts.	s, and
D4.1: reasor D4.2 T	The pot nable me here is r	easures are taken to mir	imise these impacts.	s, and
D4.1: reasor D4.2 T Refere Links	The pot nable me here is r ences	easures are taken to mir	imise these impacts.	s, and
D4.1: reasor D4.2 T Refere Links	The pot nable me here is r ences	easures are taken to min	imise these impacts. that the fishery has a significant negative impact on the species.	s, and