

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 34 Eastern Central Atlantic		
Fishery Under Assessment	Country of origin of the product:	Morocco/Mauritania		
	Stock:	Sardine stock in Central Zone (Zone A+B)		
Date	18/06/2021			
Report Code	BP 121			
Assessor	Virginia Polonio			
Country of origin of the product - PASS	Morocco/Mauritania			
Country of origin of the product - FAIL	NA			

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

Scope Details				
Main Species	European Sardine, Sardina pilchardus			
Stock	Sardine stock in Central Zone (Zone A+B)			
Fishery Location	FAO 34 Area Eastern Central Atlantic			
Management Authority	Fishery committee for the Eastern Central Atlantic (CECAF)			
(Country/ State)	Morocco and Mauritania			
Gear Type(s)	Purse seine and pelagic trawler			
Outcome of Assessment				
Peer Review Evaluation	Agreed with the assessor's determination			
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 CITES Appendix 1, it cannot be approved for use as an MARINTRUST raw material. European sardine (*Sardina pilchardus*) in the Mediterranean is not is categorised as Endangered or Critically Endangered on the IUCN Red list nor is listed in Appendix 1 of CITES and therefore is eligible for Marin Trust approval.

This assessment covers the Central Zone (Zone A + B) sardine fishery. To test the quality of the data available for stock assessment by analytical models, the Group conducted a statistical exploration of the age composition data for Zone A+B and reference points are defined for this stock. Therefore, the stock was categorised as category C.

In the last stock assessment (FAO 2020), removals are included in the stock assessment, it **PASSES** C1.1.

Further, it is above biomass reference points and it PASSES C1.2.

Therefore, sardine in the area FAO 34 stock zones A+B is **APPROVED** for the production of fishmeal and fish oil under the Marin Trust v 2.0 by-products standard.

Fishery Assessment Peer Review Comments

The assessor correctly classified the sardine stock in FAO 34 Area Central Zone (Zone A+B) as category C, reference points are defined to assess status of the stock relative to.

Fishery removals are included in the stock assessment process so the stock PASSES Clause C1.1. The sardine stock is considered, in its most recent stock assessment, to have a biomass above the limit reference point. Therefore, it PASSES Clause C1.2. Therefore, the sardine stock in FAO 34 Area Central Zone (Zone A+B) is 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
European pilchard/Sardine	Sardina pilchardus	Central Zone (Zone A+B) stock	Fishery committee for the Eastern Central Atlantic (CECAF) Morocco/Mauritania	С	LC	No

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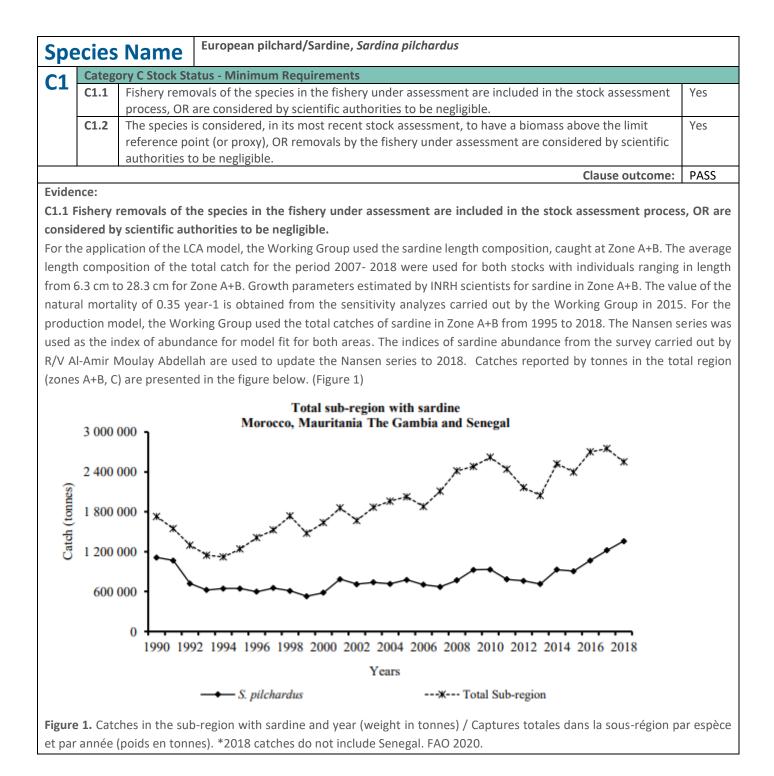
¹ <u>https://www.iucnredlist.org/</u>

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

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 may be assessed as a Category D species instead, EXCEPT if there is evidence that it is currently below the limit reference point.





Therefore, fishery removals of the species in the fishery under assessment are included in the stock assessment process and the fishery PASSES clause C1.1.

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 Schaefer dynamic production model, implemented on an Excel spreadsheet (FAO, 2012), was run to assess the exploitation level of the sardine stock in Zone A+B (Cape Cantin–Cape Bojador). The indices Bcur/BMSY and Fcur/FMSY have been used as limit reference points, whereas the indices Bcur/B0.1 and Fcur/F0.1 have been chosen as target reference points for management recommendations. Assessment tests using the length distribution analysis were conducted for stocks in Zone A+B. The adjustment of the production model by the Nansen index series was satisfactory for the Stock A+B. The results indicate that the current biomass is significantly higher than both the limit (B_{MSY}) and the target (B_{0.1}) reference points, and the current fishing mortality is below F0.1 (Table 1). The results of the LCA model, used for the evaluation of stock A+B, were inconclusive and were not accepted by the Working Group.

Table 1. Summary of the results of the Schaefer dynamic production model adjustment for sardine stocks in Zone A+B (*Sardina pilchardus*).

Stock/abundance index	Bcur/BMSY	Bcur/B0.1	Feur/FSycur	Fcur/FMSY	Fcur/F0.1
Sardine, Zone A+B/ Nansen (1995-2018)	159%	145%	110%	45%	50%

The assessor concludes that the fishery is above reference points. Therefore, the fishery PASSES C1.2.

References

Di Natale, A., Molinari, A., Oral, M., Kada, O. & Golani, D. 2011. Sardina pilchardus. The IUCN Red List of Threatened Species 2011: e.T198580A9039349. Downloaded on 12 May 2021.

FAO. 2020. Report of the Working Group on the Assessment of Small Pelagic Fish of Northwest Africa Casablanca, Morocco, 8– 13 July 2019 Rapport de groupe de travail sur l'évaluation des petits pêlagiques au large de l'Afrique Nord-Occidentale Casablanca, Maroc, 8-13 juillet 2019. Fishery Committee for the Eastern Central Atlantic (CECAF)/Comité des pêches pour l'Atlantique Centre-Est (COPACE). FAO Fisheries and Aquaculture Report No. 1309/FAO, Rapport sur les pêches et l'aquaculture no 1309. Rome. https://doi.org/10.4060/ca9562b

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