

MarinTrust Standard V2

By-product Fishery Assessment Report Template

MarinTrust Programme

Unit C, Printworks 22 Amelia Street London SE17 3BZ

E: standards@marin-trust.com

T: +44 2039 780 819



Table 1 Application details and summary of the assessment outcome

	Species: Sardine (Sardina pilchardus)					
Fishery Under Assessment	Geographical area:	FAO Area 27 North Atlantic, ICES in divisions 8.0 and 9.a (Cantabrian Sea and Atlantic Iberian waters)				
	Country of origin of the product:	Spain and Portugal				
	Stock:	Cantabrian Sea and Atlantic Iberian waters (ICES in divisions 8.c and 9.a) sardine stock				
Date	26/05/2021					
Report Code	BP84					
Assessor	Virginia Polonio					
Country of origin of the product - PASS	Spain and Portugal					
Country of origin of the product - FAIL						

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



Scope Details					
Main Species	Sardine (Sardina pilchardus)				
Stock	Cantabrian Sea and Atlantic Iberian waters (ICES in divisions 8.c and 9.a) sardine stock				
Fishery Location	FAO Area 27 North Atlantic, ICES in divisions 8.c and 9.a (Cantabrian Sea and Atlantic Iberian waters)				
Management Authority (Country/ State)	EU/Common Fisheries Policy and Spain & Portugal management authority				
Gear Type(s)	Purse seine and pelagic trawl				
Outcome of Assessment					
Peer Review Evaluation	Agree with the assessor's recommendation				
Recommendation	APPROVED				

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 IFFO RS 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 ICES in divisions 8.c and 9.a (Cantabrian Sea and Atlantic Iberian waters) is eligible for approval for use as Marin Trust by-product raw material.

One stock forms part of this assessment:

1. ICES in divisions 8.c and 9.a (Cantabrian Sea and Atlantic Iberian waters)

A bilateral agreement between Portugal and Spain (Despacho 5713-A/2020 [Ministério do Mar, 2020]; BOE-A-2020-4947 [Ministerio de Agricultura, Pesca y Alimentación, 2020]) states that the two countries will manage the fishery in 2020 according to a harvest control rule, HCR12, which has been evaluated by ICES a precautionary (ICES, 2019a). For 2021, the EU Commission requested ICES to provide advice based on the MSY approach. The stock has been assessed under Category C.

Fishery removals of the stock are included in the stock assessment process so the stock PASSES Clause C1.1. Further, the stock is considered, in its most recent stock assessment, to have a biomass above the limit reference point so the stock PASSES Clause C1.2.

Consequently, Sardine ($Sardina\ pilchardus$) in ICES in divisions 8.c and 9.a (Cantabrian Sea and Atlantic Iberian waters) is APPROVED by the assessors for the production of fishmeal and fish oil under the current Marin Trust v 2.0 by-products standard.

Fishery Assessment Peer Review Comments

The assessor correctly classified Cantabrian Sea and Atlantic Iberian waters sardine as category C, reference points are defined to assess the stock status relative to.

Fishery removals are included in the stock assessment process so the stock PASSES Clause C1.1. The stock is considered, in its most recent stock assessment, to have a biomass above the limit reference point so the stock PASSES Clause C1.2.

Therefore, the peer reviewer agrees with the assessor's determination that the fishery passes both Clauses C1.1 and C1.2, so Cantabrian Sea and Atlantic Iberian waters (ICES in divisions 8.c and 9.a) sardine is thus 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
Sardine	Sardina pilchardus	Sardine in ICES divisions 8.c and 9.a (Cantabrian Sea and Atlantic Iberian waters)	European Commission	С	LC	NO

¹ https://www.iucnredlist.org/

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.

Species Name Sardine (Sardina pilchardus)									
C1	Categ	ory C Stock Sta	atus - Minimum Requirements						
CI	C1.1		Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible.						
	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.								
	•		Clause outcome.	PASS					

C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible.

Commercial catches (international landings, ages from catch sampling); annual acoustic spring survey indices (ages from PELAGO and PELACUS [1996–2019]), triennial spawning—stock biomass (SSB) indices (PT-DEPM and SP-DEPM); triennial stock weights and maturity data from DEPM (PT-DEPM and SPDEPM [1997–2017]), interpolated for other years; natural mortalities based on the Gislason formula (Gislason et al., 2010) are included as input data for the stock assessment. Further, discarding and bycatch are considered negligible and are not included in the assessment. Catches have been decreasing over the years as it shown in the figure below. (Figure 1).

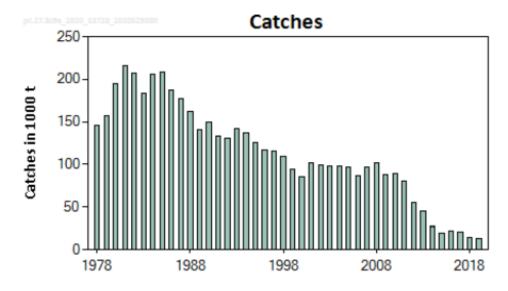


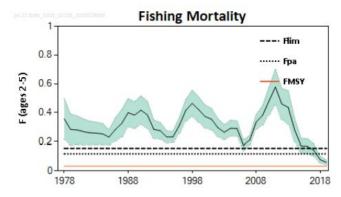
Figure 1. Catches of Sardine in divisions 8.c and 9.a. Source: ICES 2020

Fishery removals of the species in the fishery under assessment are included in the stock assessment process and it **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 biomass of age 1 and older fish (biomass 1+ or B1+) is above MSY Btrigger for the first time since 2009. Recruitment in 2019 is the highest since 2004 and above the long-term geometric mean. Fishing mortality has been declining since 2012 and is the lowest in the time-series, but still above FMSY (Figure 2).



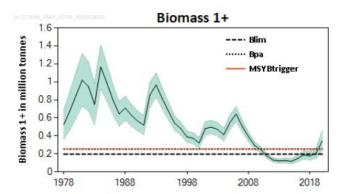


Figure 2. Sardine in divisions 8.c and 9.a. Summary of the stock assessment. Assumed recruitment is unshaded. Recruitment, fishing mortality, and biomass are indicated with 95% confidence intervals. The current reference points reflect the low productivity regime since 2006. Source: ICES 2020

ICES assesses that fishing pressure on the stock is above FMSY, but below Fpa and Flim. The biomass 1+ is above MSY Btrigger, Bpa, and Blim (Table 1).

Table 1. Sardine in divisions 8.c and 9.a. State of the stock and the fishery relative to reference points. Source: ICES 2020

	Fishing pressure					Stock size					
		2017	2018		2019			2018	2019		2020
Maximum sustainable yield	F _{MSY}	8	8	8	Above		MSY B _{trigger}	8	8	0	Above trigger
Precautionary approach	F _{pa} ,F _{lim}	0	0	0	Harvested sustainably		B _{pa} ,B _{lim}	8	0	0	Full reproductive capacity
Management plan	F _{MGT}	-	-	-	Not applicable	1	B _{MGT}	-	_	-	Not applicable

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.

References

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.

ICES. 2020. Sardine (*Sardina pilchardus*) in divisions 8.c and 9.a (Cantabrian Sea and Atlantic Iberian waters). In Report of the ICES Advisory Committee, 2020. ICES Advice 2020, pil.27.8c9a. https://doi.org/ 10.17895/ices.advice.6064

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