

MarinTrust RS V2.0



BYPRODUCT FISHERY ASSESSMENT TEMPLATE REPORT

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TABLE 1 APPLICATION DETAILS AND SUMMARY OF THE ASSESSMENT OUTCOME

Fishery Under Assessment	Species:	Sardine (<i>Sardina pilchardus</i>)
	Geographical area:	FAO Area 27 Atlantic Northeast
	Country of origin of the product:	UK & Ireland
	Stock:	ICES Divisions 8c & 9a
Date	November 2020	
Report Code	136-2020	
Assessor	Virginia Polonio	
Country of origin of the product - PASS	UK & Ireland	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Name:			
Address:			
Country: UK& Ireland		Zip:	
Tel. No.:		Fax. No.:	
Email address:		Applicant Code:	
Key Contact:		Title:	
Certification Body Details			
Name of Certification Body: SAI Global			
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Virginia Polonio	Géraldine Criquet	0.5	SURV2
Assessment Period	November 2020		

Scope Details	
Species	Sardine (<i>Sardina pilchardus</i>)
Stock	ICES Divisions 8c & 9a
Fishery Location	FAO Area 27 Atlantic Northeast
Management Authority (Country/ State)	European Union, Department of agriculture, food and maritime Ireland (DAFM) and Centre for Environment Fisheries and Aquaculture Science UK (CEFAS)
Gear Type(s)	Purse seine and pelagic trawls
Outcome of Assessment	
Peer Review Evaluation	Agree with the assessor's determination
Recommendation	APPROVED

TABLE 2. ASSESSMENT DETERMINATION

Assessment Determination
<p>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 (<i>Sardina pilchardus</i>) 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 IFFO RS by-product raw material.</p> <p>One stock forms part of this assessment:</p> <ul style="list-style-type: none"> ▪ ICES Divisions 8c & 9a <p>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 as precautionary (ICES, 2019a). For 2021, the EU Commission requested ICES to provide advice based on the MSY approach. Consequently, the stock has been assessed under Category C.</p> <p>Fishery removals of the stock are included in the stock assessment process so the stock PASSES Clause C1.1. Further, the species is considered, in its most recent stock assessment, to have a biomass above the limit reference point so the stock PASSES Clause C1.2.</p> <p>Hence, Sardine (<i>Sardina pilchardus</i>) in ICES Divisions 8c & 9a is APPROVED by SAI Global assessors for the production of fishmeal and fish oil under the current IFFO RS v 2.0 by-products standard.</p>
Peer Review Comments
<p>The assessor correctly classified sardine in ICES Divisions 8c & 9a as category C species as the stock is subject to specific management regime. The stock is assessed and stock status is assessed relative to reference points.</p> <p>Fisheries removals are considered in the stock assessment. According to the last stock assessment, the spawning stock biomass is above the limit reference point.</p> <p>Therefore, the peer reviewer agrees with the assessor’s determination that the fishery passes both C1.1 and C1.2.</p>
Notes for On-site Auditor
Empty space for on-site auditor notes

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

Byproduct 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.

Byproduct 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	<i>Sardina pilchardus</i>	ICES Divisions 8c & 9a	EU and domestically, UK& Ireland	C	NT	No

¹ <https://www.iucnredlist.org/>

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

CATEGORY C SPECIES

In a by-product assessment, Category C species are those which are subject to a species-specific management regime and are usually targeted species in fisheries for human consumption.

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 (<i>Sardina pilchardus</i>)	
C1	Category C Stock Status - Minimum Requirements		
	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.	PASS
	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.	PASS
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.

The stock assessment has used different input data such as: 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 and natural mortalities based on the Gislason formula (Gislason et al., 2010). Therefore, all removals are considered 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 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. **(R2)**.

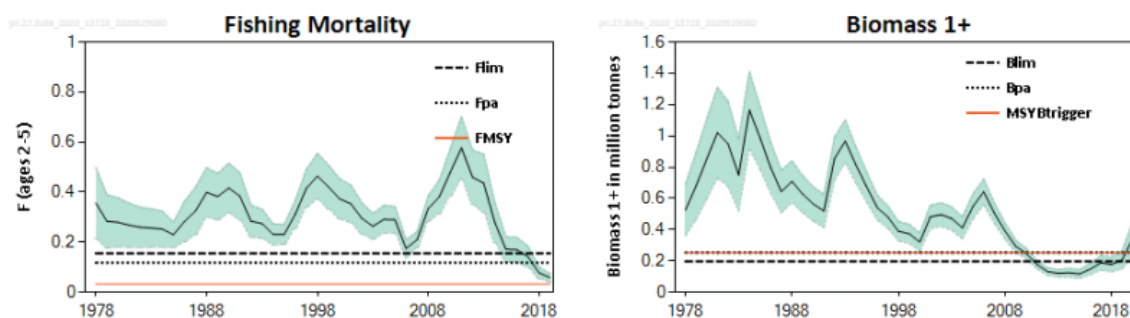


Figure 1 . Sardine in divisions 8.c and 9.a. Summary of the stock assessment. Fishing mortality and biomass are indicated with 95% confidence intervals. The current reference points reflect the low productivity regime since 2006. (Source: ICES 2020).

ICES assessed that fishing pressure on the stock is above F_{MSY} , but below F_{pa} and F_{lim} . The biomass 1+ is above MSY Btrigger, B_{pa} , and B_{lim} .

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

References

Cook, R., Fernandes, P., Florin, A., Lorance, P. & Nedreaas, K. 2015. *Sardina pilchardus*. The IUCN Red List of Threatened Species 2015: e.T198580A45075369. Downloaded on 18 June 2020.

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](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

SOCIAL CRITERION

In addition to the scored criteria listed above, applicants must commit to ensuring that vessels operating in the fishery adhere to internationally recognised guidance on human rights. They must also commit to ensuring there is no use of enforced or unpaid labour in the fleet(s) operating upon the resource.

Appendix B: From MARINTRUST Standard V2.0 Annex 2: Fish By-product Assessment Methodology

Definition of a Fish By-product

A by-product is a useful and marketable product that is not the primary product being produced. A marketable by-product is from a process that can technically not be avoided. This includes materials that may be traditionally defined as waste such as industrial scrap that is subsequently used as a raw material in a different manufacturing process.

"Fish By-products" refers to commodities that are manufactured from fish, including shellfish, and crustaceans in a form that is different than conventional foods and which are intended for human consumption (either directly or as a food ingredient). Fish By-products include, but are not limited to:

- By-products derived from fish, including fish cartilage, fish oils, and fish proteins; and
- By-products derived from the carapaces of crustaceans; but do not include marine plants or marine plant products.

(Canadian Food Inspection Agency Definition)

In addition, a whole fish which is rejected on an intrinsic quality ground e.g. does not meet the specification for human consumption due to physical damage or the quality is substandard. These whole fish shall in these cases be classified as a by-product from the human consumption fishery, and can be used for marine ingredients production.

A whole catch of fish that is rejected by a fish processing factory on economic grounds is not considered to be a fish by-product. This fish can only be used for marine ingredients production if the fishery has been assessed and approved under the requirements of the IFFO Responsible Sourcing Standard.

Why utilise Fish By-products?

FAO Code of Conduct for Responsible Fisheries

General Principles Article 6

6.7 The harvesting, handling, processing and distribution of fish and fishery products should be carried out in a manner which will maintain the nutritional value, quality and safety of the products, reduce waste and minimize negative impacts on the environment.

Responsible fish utilisation Article 11.1

11.1.8 States should encourage those involved in fish processing, distribution and marketing to reduce post-harvest losses and waste.

Benefits of Including Fish By-Products in the MARINTRUST Standard:

1. Improved fish resource utilisation
2. Reduction in waste for nutritional value
3. 35% of fish by-products are currently used to make quality fishmeal and oil
4. Excellent Economic return
5. Better compliance with FAO Code of Conduct for Responsible Fisheries

What Fish By-products cannot be used?

1. IUCN

Fishery By-products shall Not be taken from a species listed by IUCN (the International Union for Conservation of Nature) under the Red List for certain categories;

- 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.

Fish By-product material may be used from the vulnerable category, but it shall incur a fishery surveillance conducted by the certification body prior to it being included in the scope of this standard.

- VULNERABLE (VU) facing a high risk of extinction in the wild.

The Fish By-product material from these species will be acceptable for use in the scope of this standard;

- 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.

Fish By-product material may be used from the following category, but it shall incur a fishery surveillance prior to it being included in the scope of this standard;

- DATA DEFICIENT (DD) and NOT EVALUATED (NE)

The fishery surveillance conducted by the certification body will review the following areas:

Stock Assessment

- From a recognised Institution
- Fisheries are recognised as legal
- Fisheries do not contradict scientific opinion

2. FAO Code of Conduct for Responsible Fisheries

In addition the Fish By-products shall not come from fisheries that do not comply with the following criteria;

1. Fisheries should prohibit dynamiting, poisoning and other comparable destructive fishing practices.
2. Fishery material shall not be from IUU fishing activity nor sourced from vessels officially listed as engaging in illegal, unreported and unregulated (IUU) fishing activity.

Sources of Information

1. Food Standards Agency
2. Canadian Food Inspection Agency
3. DEFRA
4. GAA Feed mill BAP standard
5. EU Commission
6. IUCN