

# MarinTrust RS V2.0



## BYPRODUCT FISHERY ASSESSMENT TEMPLATE REPORT

MarinTrust Ltd, Unit C, Printworks, 22 Amelia Street, London, SE17 3BZ, United Kingdom

TABLE 1 APPLICATION DETAILS AND SUMMARY OF THE ASSESSMENT OUTCOME

<b>Fishery Under Assessment</b>	<b>Species:</b>	European Sardine, <i>Sardina pilchardus</i>
	<b>Geographical area:</b>	FAO Area 27 Atlantic Northeast
	<b>Country of origin of the product:</b>	UK & Ireland
	<b>Stock:</b>	ICES subareas 7
<b>Date</b>	November 2020	
<b>Report Code</b>	2020-131	
<b>Assessor</b>	Virginia Polonio	
<b>Country of origin of the product - PASS</b>	UK & Ireland	
<b>Country of origin of the product - FAIL</b>	NA	

Application details and summary of the assessment outcome			
<b>Name:</b>			
<b>Address:</b>			
<b>Country:</b> UK & Ireland		<b>Zip:</b>	
<b>Tel. No.:</b>		<b>Fax. No.:</b>	
<b>Email address:</b>		<b>Applicant Code:</b>	
<b>Key Contact:</b>		<b>Title:</b>	
Certification Body Details			
<b>Name of Certification Body:</b> SAI Global			
<b>Assessor</b>	<b>Peer Reviewer</b>	<b>Assessment Days</b>	<b>Initial/Surveillance/ Re-approval</b>
Virginia Polonio	Geraldine Criquet	0.5	SURV 2
<b>Assessment Period</b>		November 2020	

Scope Details	
<b>Main Species</b>	European Sardine, <i>Sardina pilchardus</i>
<b>Stock</b>	ICES subarea 7
<b>Fishery Location</b>	FAO 27 Atlantic Northeast
<b>Management Authority (Country/ State)</b>	European Union, CEFAS and DAFM
<b>Gear Type(s)</b>	Seines and pelagic trawls
Outcome of Assessment	
<b>Peer Review Evaluation</b>	Agree with the assessor's determination
<b>Recommendation</b>	<b>APPROVED</b>

**TABLE 2. ASSESSMENT DETERMINATION**

<b>Assessment Determination</b>
<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"> <li>▪ ICES Subarea 7</li> </ul> <p>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 risk-assessment style approach must be taken. Consequently, the stock has been assessed under Category D.</p> <p>The compliance rating for PSA has achieved a PASS. Hence, Sardine (<i>Sardina pilchardus</i>) in ICES Subarea 7 is <b>APPROVED</b> by SAI Global assessors for the production of fishmeal and fish oil under the current IFFO RS v 2.0 by-products standard</p>
<b>Peer Review Comments</b>
<p>The assessor correctly classified sardine in ICES Subarea 7 as category D.</p> <p>A PSA was performed. With an average productivity score of 1.15 and an average susceptibility score of 2, it passes the PSA.</p> <p>Therefore, the peer reviewer agrees with the assessor’s determination that the fishery passes the PSA and is thus approved.</p>
<b>Notes for On-site Auditor</b>
Empty space for 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 <sup>1</sup>	CITES Appendix 1 <sup>2</sup>
European Sardine	<i>Sardina pilchardus</i>	ICES subarea 7	EU, CEFAS and DAFM	D	LC	No

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

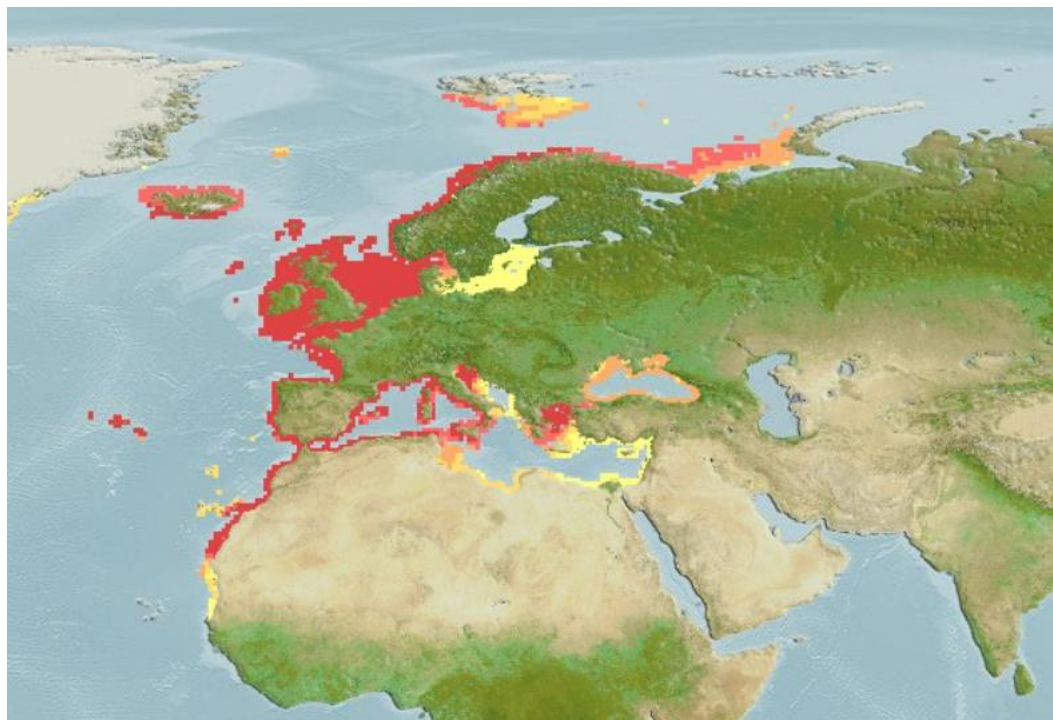
<sup>2</sup> <https://cites.org/eng/app/appendices.php>

## CATEGORY D SPECIES

Category D species are those which make up less than 5% of landings and are not subject to a species-specific

<b>D1</b>	<b>Species Name</b>	European Sardine, <i>Sardina pilchardus</i>	
	<b>Productivity Attribute</b>	<b>Value</b>	<b>Score</b>
	Average age at maturity (years)	1.7	1
	Average maximum age (years)	5.9	1
	Fecundity (eggs/spawning)	156,525 [ 50,000-490,000 ]	1
	Average maximum size (cm)	27.5	1
	Average size at maturity (cm)	14.8	1
	Reproductive strategy	Non-guarders open water/substratum egg scatterers	1
	Mean trophic level	3.1	2
	<b>Average Productivity Score</b>		<b>1.15</b>
	<b>Susceptibility Attribute</b>	<b>Value</b>	<b>Score</b>
	Overlap of adult species range with fishery	NA	
	Distribution	Global distribution	1
	Habitat	Pelagic	1
	Depth range	20-60 m	2
	Selectivity	Up to 4 m	3
	Post-capture mortality	Retained	3
	<b>Average Susceptibility Score</b>		<b>2</b>
	<b>PSA Risk Rating (From Table D3)</b>		<b>PASS</b>
	<b>Compliance rating</b>		<b>PASS</b>

### 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. <https://doi.org/10.17895/ices.advice.4854>.

<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 attributes		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 size or >5 m length
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.

<b>D3</b>		<b>Average Susceptibility Score</b>		
		<b>1 - 1.75</b>	<b>1.76 - 2.24</b>	<b>2.25 - 3</b>
<b>Average Productivity Score</b>	<b>1 - 1.75</b>	PASS	PASS	PASS
	<b>1.76 - 2.24</b>	PASS	PASS	TABLE D4
	<b>2.25 - 3</b>	PASS	TABLE D4	TABLE D4

## 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.