

# MarinTrust Standard V2

# By-product Fishery Assessment European sardine, FAO Area 37, GFCM GSA 22

#### **MarinTrust Programme**

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# Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	European sardine (Sardina pilchardus)	
	Geographical area:	FAO Area 37, General Fisheries Commission for the Mediterranean (GFCM) Geographical Sub- Area (GSA) 22	
	Country of origin of the product:	Spain	
	Stock:	GFCM GSA 22	
Date		August 2022 ESP10	
Report Code			
Assessor		Sam Peacock	
Country of origin of the product - PASS		Spain	
Country of origin of the product - FAIL	None		

Application details and	Application details and summary of the assessment outcome					
Company Name(s): Sa	rval Bio-Industries					
Country: Spain						
Email address: maria.n	nato@sarval.es	Applicant Code	e:			
<b>Certification Body Deta</b>	Certification Body Details					
Name of Certification Body:		LRQA				
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval			
Sam Peacock Jose Peiro Crespo		0.25	Surveillance			
Assessment Period		Augus	st 2022			

Scope Details	
Main Species	European sardine (Sardina pilchardus)
Stock	GFCM GSA 22
Fishery Location	FAO Area 37 GFCM GSA 22
Management Authority (Country/ State)	EU & GFCM
Gear Type(s)	Purse seine & pelagic trawl
Outcome of Assessment	
Peer Review Evaluation	Agree with assessor's determination
Recommendation	Approved

#### Table 2. Assessment Determination

#### **Assessment Determination**

European sardine is categorised on the IUCN Red List as Least Concern and does not appear in the CITES appendices. Sardine in General Fisheries Commission for the Mediterranean (GFCM) Geographical Sub-Area (GSA) 22 has no established biomass-based reference points<sup>1</sup>, and therefore was assessed under Category D. The stock was awarded a productivity score of 1.14 and a susceptibility score of 2, leading to the stock achieving a Pass on Table D3. As sardine in GFCM GSA 22 meets the MT byproduct requirements, it should be approved for use as a raw material.

#### **Fishery Assessment Peer Review Comments**

The assessor correctly classified the Sardine in General Fisheries Commission for the Mediterranean (GFCM) Geographical Sub-Area (GSA) 22 as category D, as no biomass-based reference points have been established for the stock.

The stock passes the Productivity Susceptibility Analysis under Category D and is therefore approved under the Marin Trust v 2.0 by-products standard.

Notes for On-site Auditor		

<sup>&</sup>lt;sup>1</sup> See Table 4, Page 47, General Fisheries Commission for the Mediterranean. Report of the twenty-second session of the Scientific Advisory Committee on Fisheries, online, 22–25 June 2021. <a href="https://www.fao.org/3/cb7622en/cb7622en.pdf">https://www.fao.org/3/cb7622en/cb7622en.pdf</a>



## **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 Red list 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 <sup>2</sup>	CITES Appendix 1 <sup>3</sup>
European sardine	Sardina pilchardus	GFCM GSA 22	No	D	Least Concern <sup>4</sup>	No

<sup>&</sup>lt;sup>2</sup> https://www.iucnredlist.org/

<sup>&</sup>lt;sup>3</sup> https://cites.org/eng/app/appendices.php

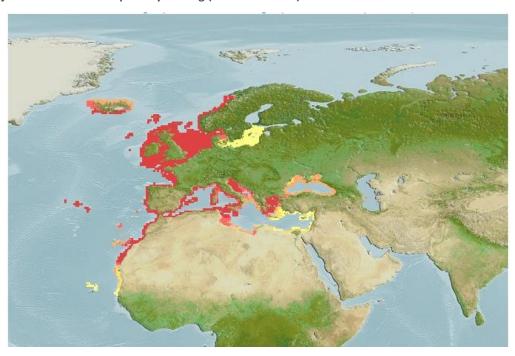
<sup>4</sup> https://www.iucnredlist.org/species/198580/15542481

### **CATEGORY D SPECIES**

Category D species are those which 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.

<b>D1</b>	Species Name	European sardine (Sardina pile	chardus)
	Productivity Attribute	Value	Score
	Average age at maturity (years)	2 years	1
	Average maximum age (years)	7 years	1
	Fecundity (eggs/spawning)	50,000 – 490,000	1
	Average maximum size (cm)	27.5cm	1
	Average size at maturity (cm)	11.8cm	1
	Reproductive strategy	Broadcast spawner	1
	Mean trophic level	3.1	2
		Average Productivity Score	1.14
	Susceptibility Attribute	Value	Score
	Availability (area overlap)	<10%	1
	Encounterability (the position of the stock within the water column relative to the fi		3
	Selectivity of gear type	Juveniles rarely caught	1
	Post-capture mortality	Retained	3
		Average Susceptibility Score	2
		PSA Risk Rating (From Table D3)	PASS

Further justification for susceptibility scoring (where relevant)



Computer-generated map of European sardine distribution, from Fishbase <a href="https://www.fishbase.se/summary/sardina-pilchardus.html">https://www.fishbase.se/summary/sardina-pilchardus.html</a>



Referen	ices
Fishbase	e, European sardine. https://www.fishbase.se/summary/sardina-pilchardus.html
Standari	d 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	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="">&gt;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

<b>D4</b>	Spe	cies Name	n/a				
	Impac	Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements					
	D4.1						
	process, and reasonable measures are taken to minimise these impacts.  D4.2 There is no substantial evidence that the fishery has a significant negative impact on the species.						
		, .	Outcome:				
reasor	The pot	easures are taken to mir	ishery on this species are considered during the management proces nimise these impacts.  that the fishery has a significant negative impact on the species.	s, and			
Refere	ences						
Links							
Marin	Trust Sta	and and alarma	1.3.2.2, 4.1.4				
FAO C		andard clause					
FAU	CRF	andard clause	7.5.1				