

MarinTrust Standard V2

By-product Fishery Assessment European sardine in ICES Divisions 8a,b,d

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Table 1 Application details and summary of the assessment outcome

	Species:	European sardine (Sardina pilchardus)	
Fishery Under	Geographical area:	ICES Divisions 8a,b,d (Bay of Biscay)	
Assessment	Country of origin of the product:	Spain	
	Stock:	ICES Divisions 8a,b,d	
Date	August 2022		
Report Code	ESP11		
Assessor	Sam Peacock		
Country of origin of the product - PASS	Spain		
Country of origin of the product - FAIL		None	

Application details and	d summary of the asses	sment outcome	2
Company Name(s): Sa	rval Bio-Industries		
Country: Spain			
Email address: maria.r	nato@sarval.es	Applicant Cod	e:
Certification Body Deta	ails		
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	ICES Divisions 8a,b,d
Fishery Location	ICES Divisions 8a,b,d (Bay of Biscay)
Management Authority	EU
(Country/ State)	EO
Gear Type(s)	Purse seine and pelagic trawl
Outcome of Assessment	
Peer Review Evaluation	Agree with assessor's determination
Recommendation	Approved

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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 the Bay od Biscay is managed relative to established reference points and was therefore assessed under Category C. Landings are included in the stock assessment process, however stock biomass was estimated to be below the limit reference point in the most recent stock assessment. As per the MT fishery assessment guidance, after failing Category C the stock was assessed under Category D. The productivity score of 1.14 and susceptibility score of 2 mean that the stock passed via Table D3. As sardine in ICES Divisions 8a,b,d 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 Bay of Biscay sardine stock as category C, this stock is managed and reference points are defined.

A stock assessment is conducted annually by the ICES Working Group on Southern Horse Mackerel, Anchovy and Sardine (WGHANSA). Fishery removals are considered in the stock assessment process. Although SSB for 2022 was projected to be above the limit reference point, at the time of the assessment (2021), the SSB was below the limit reference point. Therefore, the stock fails clause C.1.2 and it needs to be assessed under category D.

The stock passes the Productivity Susceptibility Analysis under category D. Therefore, the Bay of Biscay sardine may be approved under the Marin Trust v 2.0 by-products standard.

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 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 ¹	CITES Appendix 1 ²
European sardine	Sardina pilchardus	ICES Divisions 8a,b,d	Yes	С	Least Concern ³	No

¹ <u>https://www.iucnredlist.org/</u>

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

³ https://www.iucnredlist.org/species/198580/15542481

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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 should be assessed as a Category D species instead.

Spe	ecies	Name	European sardine (Sardina pilchardus)	
C1	Categ	ory C Stock Sta	atus - Minimum Requirements	
CI	C1.1		ovals of the species in the fishery under assessment are included in the stock assessment are considered by scientific authorities to be negligible.	PASS
	C1.2	reference po	is considered, in its most recent stock assessment, to have a biomass above the limit pint (or proxy), OR removals by the fishery under assessment are considered by scientific o be negligible.	FAIL
		•	Clause outcome:	FAIL
C1.1 F	ishery	removals of tl	he species in the fishery under assessment are included in the stock assessment proces	ss, OR are

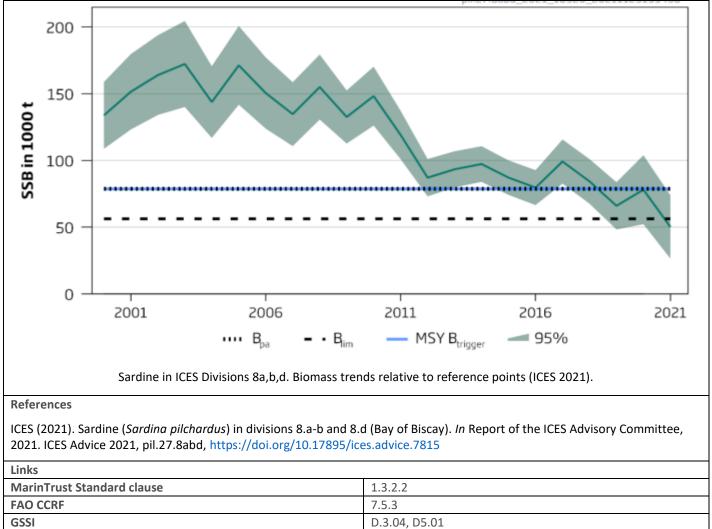
C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible.

A stock assessment is conducted annually by the ICES Working Group on Southern Horse Mackerel, Anchovy and Sardine (WGHANSA). The most recent assessment was conducted in 2021 using commercial catches including international landings and ages and length frequencies from catch sampling. Discarding and bycatch are both considered negligible (ICES 2021). The annual ICES advice includes a section on "issues relevant for the advice" where any concerns over the robustness of data are raised; in the most recent advice this section does not include any concerns regarding the catch data (although reference is made to French catches this does not affect the robustness of the data sources). All fishery removals are included in the assessment and C1.1 is met.

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.

Target and limit reference points have been established for the stock. Target reference points MSY B_{trigger} and B_{pa} are set at 78,700t. Limit reference point B_{lim} is set at 56,300t. The most recent catch advice projected the SSB in 2022 to be 94,560t, above both the target and limit reference point. However, the advice also states that at the time of the stock assessment, "spawning-stock size is below MSY B_{trigger}, B_{pa}, and B_{lim}. This means that while it is expected to recover in the short term, the most recent stock assessment estimated SSB to be below the limit reference point and C1.2 is not met. As per the MT assessment guidance, the stock should be assessed under Category D.







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.

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	Scor
Availability (area overlap)	<10%	1
Encounterability (the position of the stock/species	Targeted – high overlap	
within the water column relative to the fishing gear)	5 5 1	3
Selectivity of gear type	Juveniles rarely caught	1
Post-capture mortality	Retained	3
i	Average Susceptibility Score	2
	PSA Risk Rating (From Table D3)	PAS
	Compliance rating	PAS
	and the second sec	

https://www.fishbase.se/summary/sardina-pilchardus.html

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References

Fishbase, European sardine. https://www.fishbase.se/summary/sardina-pilchardus.html

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 at	tribu	ites	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 or<br="" size="">>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.

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D3		Average Susceptibility	Score	
23		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

D4	Spe	cies Name	n/a	
	Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements			
	D4.1		of the fishery on this species are considered during the management le measures are taken to minimise these impacts.	
	D4.2		al evidence that the fishery has a significant negative impact on the	
		, ·	Outcome:	
	nce			
reasor	The pot nable me	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
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