

# MarinTrust Standard V2

# By-product Fishery Assessment MAR008

European anchovy

(Engraulis encrasicolus)

in FAO 27, ICES

Subdivisions 7.b, g, h, j

#### **MarinTrust Programme**

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# Table 1 Application details and summary of the assessment outcome

	Species:	European anchovy (Engraulis encrasicolus)	
	Geographical area:	FAO 27, ICES Subdivisions 7.b, g, h, j	
Fishery Under Assessment	Country of origin of the product:	Morocco Flag countries: Morocco	
	Stock:	European anchovy ( <i>Engraulis encrasicolus</i> ) in FAO 27, ICES Subdivisions 7.b, g, h, j	
Date	June 2024		
Report Code	MAR008		
Assessor	Ana Elisa Almeida Ayres		
Country of origin of the	Morocco		
product - PASS	Flag countries: Morocco		
Country of origin of the product - FAIL	N/A		

Application details and summary of the assessment outcome						
Company Name(s): Alpha Atlantique De Sahara Marocaine SA						
Country: Morocco						
Flag countries: Morocco						
Email address:	Email address: Applicant Code:					
Certification Body Details						
Name of Certification Bod	y:	NSF / Glol	bal Trust Certification Ltd.			
Assessor	Peer Reviewer					
Ana Elisa Almeida Ayres	Léa Lebechnech 0.5 Initial					
Assessment Period	June 2024 – June 2025					

Scope Details	
Main Species	European anchovy (Engraulis encrasicolus)
Stock	European anchovy ( <i>Engraulis encrasicolus</i> ) in FAO 27, ICES Subdivisions 7.b, e, f, g, h, j
Fishery Location	FAO 27, ICES Subdivisions 7.b, g, h, j
Management Authority (Country/ State)	European Union (Common Fishery Policy), Morocco Ministère de l'Agriculture, de la Pêche Maritime, du Développment Durable et des Eaux et Forêts (MAMF)
Gear Type(s)	All
Outcome of Assessment	
Peer Review Evaluation	Agree with the assessor's determination
Recommendation	APPROVED



# Table 2. Assessment Determination

### **Assessment Determination**

If any species is categorised as Endangered or Critically Endangered on Union for Conservation of Nature's Red List of Threatened Species - IUCN's Red List, or if it appears in the Convention on International Trade in Endangered Species of Wild Fauna and Flora - CITES appendices, it cannot be approved for use as MarinTrust raw material. European anchovy (*Engraulis encrasicolus*) is not categorised as Endangered or Critically Endangered on IUCN's Red List and does not appear in CITES appendices; therefore, European anchovy (*Engraulis encrasicolus*) is eligible for approval for use as MarinTrust by-product raw material.

There is no agreed precautionary management regime in place for the European anchovy in ICES Subdivisions 7.b, g, h, j. 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, since no specific assessment of the European anchovy stock in the area is available, the stock was assessed under category D. It passed the Productivity/Susceptibility Attributes - PSA risk rating with a productivity score equal to 1.29 and susceptibility score equal to 2.75.

Therefore, European anchovy (*Engraulis encrasicolus*) in FAO 27, ICES Subdivisions 7.b, g, h, j is **APPROVED** for the production of fishmeal and fish oil under the current MarinTrust v2.3 by-products standard.

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

The assessor correctly classified European anchovy (*Engraulis encrasicolus*) in FAO 27, ICES Subdivisions 7.b, e, f, g, h, j has been assessed under Category D, because no specific assessment of the European anchovy stock in the area is available.

It passed the Productivity/Susceptibility Attributes - PSA risk rating with a productivity score equal to 1.29 and susceptibility score equal to 2.75.

Therefore, European anchovy is **APPROVED** for the production of fishmeal and fish oil under the current MarinTrust V2.0 by-products standards.

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 <sup>1</sup>	CITES Appendix 1 <sup>2</sup>
European anchovy	Engraulis encrasicolus	European anchovy (Engraulis encrasicolus) in FAO 27, ICES Subdivisions 7.b, e, f, g, h, j	Yes	D	LC <sup>3</sup>	No

<sup>&</sup>lt;sup>1</sup> https://www.iucnredlist.org/

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

<sup>&</sup>lt;sup>3</sup> https://www.iucnredlist.org/species/198568/45083771



# **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.

Species Name European anchovy (Engraulis encr					
Productivity Attribute	Value	Score			
Average age at maturity (years)	1.8	1			
Average maximum age (years)	6.7	1			
Fecundity (eggs/spawning)	16,125 [13,000 - 20,000]	2			
Average maximum size (cm)	20	1			
Average size at maturity (cm)	12.3	1			
Reproductive strategy	Broadcast spawner	1			
Mean trophic level	3.1	2			
	Average Productivity Score	1.29			
Susceptibility Attribute	Value	Score			
Availability (area overlap)	10-30	2			
Encounterability (the position of the stock/species the water column relative to the fishing gear)	within Precautionary	3			
Selectivity of gear type	Precautionary	3			
Post-capture mortality	Retained	3			
	Average Susceptibility Score	2.75			
	PSA Risk Rating (From Table D3)	PASS			
	Compliance rating	PASS			

#### Further justification for susceptibility scoring (where relevant)

For susceptibility attributes, please provide a brief rationale for scoring of parameters where there may be uncertainty affecting your decision

European anchovy (*Engraulis encrasicolus*) is found in eastern Atlantic (Bergen, Norway to East London, South Africa), Mediterranean, Black and Azov seas, with stray individuals in Suez Canal and Gulf of Suez; also recorded from St. Helena and Estonia (Froese and Pauly, 2024). Due lack of specific information regarding the fishing gears, a precautionary score was given for encounterability and selectivity of gear type. As it is a commercial species, it is usually retained.



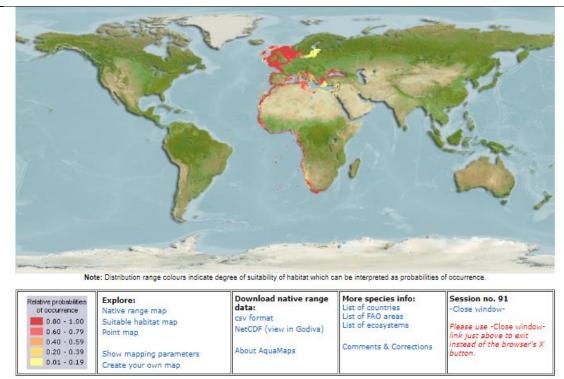


Figure 1. Distribution of European anchovy (Engraulis encrasicolus) [AquaMaps, 2009].

#### References

AquaMaps (2009). Computer generated distribution maps for European anchovy (*Engraulis encrasicolus*) with modelled year 2050 native range map based on IPCC RCP8.5 emissions scenario. https://www.aquamaps.org/receive.php?type of map=regular&map=cached

Froese, R. and D. Pauly (2024). FishBase. *Engraulis encrasicolus* (Linnaeus, 1758) - European anchovy. <a href="https://www.fishbase.se/summary/engraulis-encrasicolus.html">https://www.fishbase.se/summary/engraulis-encrasicolus.html</a>

Standard clauses 1.3.2.2



# Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	High productivity (Low risk, score = 1)	Medium productivity (medium risk, score = 2)	Low productivity (high risk, score = 3)
Average age at maturity	<5 years	5-15 years	>15 years
Average maximum age	<10 years	10-25 years	>25 years
Fecundity	>20,000 eggs per year	100-20,000 eggs per year	<100 eggs per year
Average maximum size	<100 cm	100-300 cm	>300 cm
Average size at maturity	<40 cm	40-200 cm	>200 cm
Reproductive strategy	Broadcast spawner	Demersal egg layer	Live bearer
Mean Trophic Level	<2.75	2.75-3.25	>3.25

Susceptibility		ow susceptibility		Medium susceptibility		High susceptibility	
attributes	(Low risk, score = 1) (medium risk, score = 2)		(h	igh risk, score = 3)			
Areal overlap (availability) Overlap of the fishing effort with the species range	<10% overlap		10	10-30% overlap		>30% overlap	
Encounterability The position of the stock/species within the water column relative to the fishing gear, and the position of the stock/species within the habitat relative to the position of the gear	fis	w overlap with hing gear (low counterability).		Medium overlap with fishing gear.		High overlap with fishing gear (high encounterability). Default score for target species	
Selectivity of gear type	а	Individuals < size at maturity are rarely caught	а	Individuals < size at maturity are regularly caught.	а	Individuals < size at maturity are frequently caught	
Potential of the gear to retain species	b	Individuals < size at maturity can escape or avoid gear.	b	Individuals < half the size at maturity can escape or avoid gear.	ь	Individuals < half the size at maturity are retained by gear.	
Post-capture mortality (PCM) The chance that, if captured, a species would be released and that it would be in a condition permitting subsequent survival	re	ridence of majority eased post-capture d survival.	Evidence of some released post-capture and survival.		m	etained species or ajority dead when leased.	



D3		Average Susceptibility Score				
		1 - 1.75 1.76 - 2.24		2.25 - 3		
Average Productivity	e Productivity 1 - 1.75		PASS	PASS		
Score	1.76 - 2.24	PASS	PASS	TABLE D4		
	2.25 - 3	PASS	TABLE D4	TABLE D4		