



MarinTrust Standard V2

By-product Fishery Assessment

GBR07 – European anchovy

(Engraulis encrasicolus)

in FAO 27, ICES Subdivisions

7.b, e, f, g, h, j

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	European anchovy (<i>Engraulis encrasicolus</i>)
	Geographical area:	FAO 27, ICES Subdivisions 7.b, e, f, g, h, j
	Country of origin of the product:	UK Flag countries: UK & Ireland
	Stock:	European anchovy (<i>Engraulis encrasicolus</i>) in FAO 27, ICES Subdivisions 7.b, e, f, g, h, j
Date	April 2024	
Report Code	GRB07	
Assessor	Ana Elisa Almeida Ayres	
Country of origin of the product - PASS	UK Flag countries: UK & Ireland	
Country of origin of the product - FAIL	N/A	

Application details and summary of the assessment outcome			
Company Name(s):	Killybegs (Pelagia)		
Country:	UK	Flag countries:	UK & Ireland
Email address:	Applicant Code:		
Certification Body Details			
Name of Certification Body:		NSF / Global Trust Certification Ltd.	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/Re-approval
Ana Elisa Almeida Ayres	Léa Lebechnech	0.5	Surveillance 2
Assessment Period	April 2024 – April 2025		

Scope Details	
Main Species	European anchovy (<i>Engraulis encrasicolus</i>)
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, e, f, g, h, j
Management Authority (Country/ State)	European Union (Common Fishery Policy), Ireland - Sea-Fisheries Policy & Management Division, UK - Marine Management Organization
Gear Type(s)	All
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 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 (<i>Engraulis encrasicolus</i>) is not categorised as Endangered or Critically Endangered on IUCN's Red List and does not appear in CITES appendices; therefore, European anchovy (<i>Engraulis encrasicolus</i>) is eligible for approval for use as MarinTrust by-product raw material.</p> <p>There is no agreed precautionary management regime in place for the European anchovy in ICES Subdivisions 7.b, e, f, 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.</p> <p>Therefore, European anchovy (<i>Engraulis encrasicolus</i>) in FAO 27, ICES Subdivisions 7.b, e, f, g, h, j is APPROVED for the production of fishmeal and fish oil under the current MarinTrust v2.3 by-products standard.</p>
Fishery Assessment Peer Review Comments
<p>The assessor correctly classified European anchovy (<i>Engraulis encrasicolus</i>) in FAO 27, ICES Subdivisions 7.b, e, f, g, h, j under Category D, There is no agreed precautionary management regime in place for this stock.</p> <p>It passed the PSA risk rating with a productivity score of 1.29 and susceptibility score of 2.75.</p> <p>In conclusion, as European anchovy (<i>Engraulis encrasicolus</i>) in FAO 27, ICES Subdivisions 7.b, e, f, g, h, j, passes category D, it should therefore be approved under the MarinTrust Standard v2.3.</p>
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 anchovy	<i>Engraulis encrasicolus</i>	European anchovy (<i>Engraulis encrasicolus</i>) in FAO 27, ICES Subdivisions 7.b, e, f, g, h, j	Yes	D	LC ³	No

¹ <https://www.iucnredlist.org/>

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

³ <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.

D1	Species Name		European anchovy (<i>Engraulis encrasicolus</i>)	
	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 within the water column relative to the fishing gear)	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)			
	<i>For susceptibility attributes, please provide a brief rationale for scoring of parameters where there may be uncertainty affecting your decision</i>			
	European anchovy (<i>Engraulis encrasicolus</i>) 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.			



Note: Distribution range colours indicate degree of suitability of habitat which can be interpreted as probabilities of occurrence.

<p>Relative probabilities of occurrence</p> <ul style="list-style-type: none"> ■ 0.80 - 1.00 ■ 0.60 - 0.79 ■ 0.40 - 0.59 ■ 0.20 - 0.39 ■ 0.01 - 0.19 	<p>Explore:</p> <ul style="list-style-type: none"> Native range map Suitable habitat map Point map Show mapping parameters Create your own map 	<p>Download native range data:</p> <ul style="list-style-type: none"> csv format NetCDF (view in Godiva) About AquaMaps 	<p>More species info:</p> <ul style="list-style-type: none"> List of countries List of FAO areas List of ecosystems Comments & Corrections 	<p>Session no. 91</p> <p>-Close window-</p> <p><i>Please use -Close window-link just above to exit instead of the browser's X button.</i></p>
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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.

<https://www.fishbase.se/summary/engraulis-encrasicolus.html>

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 attributes	Low susceptibility (Low risk, score = 1)	Medium susceptibility (medium risk, score = 2)	High susceptibility (high risk, score = 3)
Areal overlap (availability) Overlap of the fishing effort with the species range	<10% overlap	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	Low overlap with fishing gear (low encounterability).	Medium overlap with fishing gear.	High overlap with fishing gear (high encounterability). Default score for target species
Selectivity of gear type Potential of the gear to retain species	a Individuals < size at maturity are rarely caught	a Individuals < size at maturity are regularly caught.	a Individuals < size at maturity are frequently caught
	b Individuals < size at maturity can escape or avoid gear.	b Individuals < half the size at maturity can escape or avoid gear.	b 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	Evidence of majority released post-capture and survival.	Evidence of some released post-capture and survival.	Retained species or majority dead when released.

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