



MarinTrust Standard V2

By-product Fishery Assessment Report Template

MarinTrust Programme

Unit C, Printworks

22 Amelia Street

London

SE17 3BZ

E: standards@marin-trust.com

T: +44 2039 780 819

Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Anchovy, <i>Engraulis encrasicolus</i>
	Geographical area:	FAO Area 27 Atlantic Northeast
	Country of origin of the product:	UK & Ireland
	Stock:	ICES subareas 7
Date	April 2021	
Report Code	BP47	
Assessor	Virginia Polonio	
Country of origin of the product - PASS	UK & Ireland	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Name:			
Address:			
Country: UK & Ireland		Zip:	
Tel. No.:		Fax. No.:	
Email address:		Applicant Code:	
Key Contact:		Title:	
Certification Body Details			
Name of Certification Body: Global Trust Certification			
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Virginia Polonio	Geraldine Criquet	0.5	Initial
Assessment Period	April 2021		

Scope Details	
Main Species	Anchovy, <i>Engraulis encrasicolus</i>
Stock	ICES subarea 7
Fishery Location	FAO 27 Atlantic Northeast
Management Authority (Country/ State)	European Union, CEFAS and DAFM
Gear Type(s)	Seines and pelagic trawls
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 IUCN’s Red List, or if it appears in the CITES appendices, it cannot be approved for use as MARINTRUST raw material. Anchovy, <i>Engraulis encrasicolus</i> do not appear as Endangered or Critically Endangered on IUCN’s Red List, nor do they appear in CITES appendices; therefore, Anchovy, <i>Engraulis encrasicolus</i> is eligible for approval for use as MARINTRUST by-product raw material.</p> <p>One stock forms part of this assessment:</p> <ul style="list-style-type: none"> ▪ ICES Subarea 7 <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, Anchovy, <i>Engraulis encrasicolus</i> in ICES Subarea 7 is APPROVED by GTC assessors for the production of fishmeal and fish oil under the current MARINTRUST v 2.0 by-products standard</p>
Fishery Assessment Peer Review Comments
<p>The assessor correctly classified anchovy in ICES Subarea 7 as category D, reference points are not defined to assess the stock status relative to.</p> <p>A PSA was performed. With an average productivity score of 1.15 and an average susceptibility score of 2, the stock passes Table D3.</p> <p>Therefore, the peer reviewer agrees with the assessor’s determination that the fishery passes Table D3 and anchovy in ICES Subarea 7 is thus approved.</p>
Notes for On-site Auditor
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

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
Anchovy	<i>Engraulis encrasicolus</i>	ICES subarea 7	EU, CEFAS and DAFM	D	LC	No

¹ <https://www.iucnredlist.org/>

² <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 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	<i>Anchovy, <i>Engraulis encrasicolus</i></i>	
	Productivity Attribute	Value	Score
	Average age at maturity (years)	1.9	1
	Average maximum age (years)	7	1
	Fecundity (eggs/spawning)	16,125, [13,000-20,000]	1
	Average maximum size (cm)	20	1
	Average size at maturity (cm)	12.3	1
	Reproductive strategy	Non-guarders open water/substratum egg scatterers	1
	Mean trophic level	3.1	2
	Average Productivity Score		1.15
	Susceptibility Attribute	Value	Score
	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
	Average Susceptibility Score		2
	PSA Risk Rating (From Table D3)		PASS
	Compliance rating		PASS

References

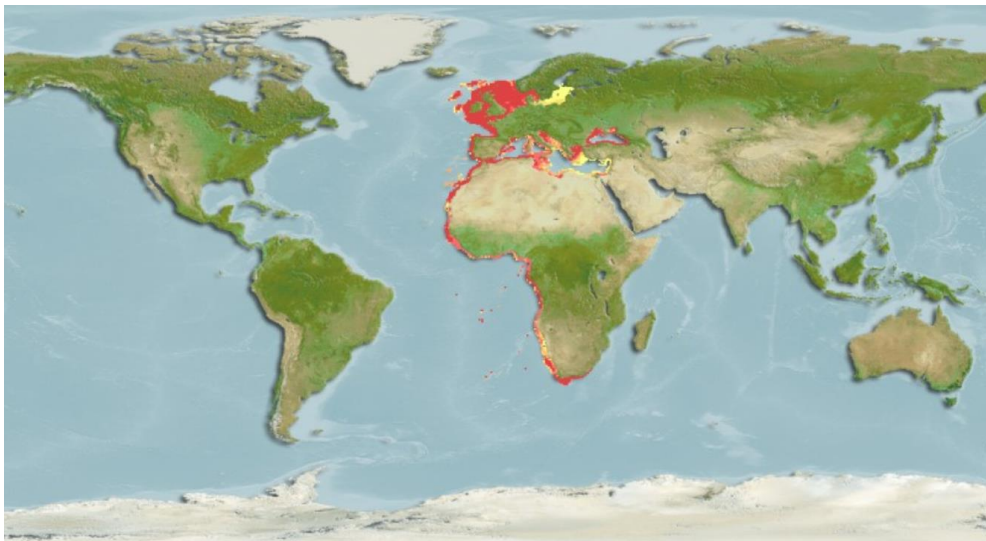


Figure 1. Distribution of *Engraulis encrasicolus* (European anchovy), with modelled year 2050 native range map based on IPCC RCP8.5 emissions scenario. www.aquamaps.org, version 10/2019.

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.

<https://www.fishbase.se/Summary/SpeciesSummary.php?ID=66&AT=anchovy>

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.

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

D4 Species Name			
Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements			
D4.1	The potential impacts of the fishery on this species are considered during the management 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:			
Evidence			
D4.1: The potential impacts of the fishery on this species are considered during the management 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.			
References			
Links			
MARINTRUST Standard clause	1.3.2.2, 4.1.4		
FAO CCRF	7.5.1		
GSSI	D.5.01		