

MarinTrust Standard V2

By-product Fishery Assessment

Horse Mackerel (*Trachurus trachurus*),
FAO 27, ICES 3.a, 4 and 7.d (Skagerrak and Kattegat, Southern and Central North Sea, Eastern English Channel)

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

	Species:	Horse mackerel (<i>Trachurus trachurus</i>)	
	Geographical area:	FAO 27 – Northeast Atlantic	
Fishery Under Assessment	Country of origin of the product:	UK	
7.000001110110		ICES 3.a, 4 and 7.d (Skagerrak and Kattegat,	
	Stock:	Southern and Central North Sea, Eastern English Channel)	
Date	July 2024		
Report Code	GBR38		
Assessor	Blanca Gonzalez		
Country of origin of the product - PASS	UK		
Country of origin of the product - FAIL			

Application details and summary of the assessment outcome						
Company Name(s): Lunar FPR Ltd						
Country: UK						
Email address:		Applicant Cod	e:			
Certification Body Det	ails					
Name of Certification	Name of Certification Body: LRQA					
		Assessment	Initial/Surveillance/			
Assessor	Peer Reviewer		Re-approval			
		Days				
Blanca Gonzalez	Sam Peacock	0.5	Surveillance 1			
Assessment Period July 2024 – July 2025						

Scope Details	
Main Species	Horse mackerel (Trachurus trachurus)
Stock	ICES 3.a, 4 and 7.d (Skagerrak and Kattegat, Southern and Central North Sea, Eastern English Channel)
Fishery Location	FAO 27 – Northeast Atlantic
Management Authority (Country/ State)	EU and UK
Gear Type(s)	Bottom trawl, pelagic trawl, seine and others
Outcome of Assessment	
Peer Review Evaluation	Agree with recommendation
Recommendation	PASS



Table 2. Assessment Determination

Assessment Determination

Horse mackerel (*Trachurus trachurus*) was assessed as a category D species considering that it is a Vulnerable species by the IUCN, it is not in included in any CITES Appendixes, and no reference points are defined for this stock.

In the Productivity-Susceptibility Analysis (PSA) the horse mackerel awarded an average productivity score of 1.43 and an average susceptibility score of 2.5 passing against Table D3, indicating that the stock is not vulnerable to the fisheries in Skagerrak and Kattegat, Southern and Central North Sea, Eastern English Channel.

The horse mackerel by-product meets the Marin Trust requirements and it should be remained approved for use as a raw material.

Fishery Assessment Peer Review Comments

The peer reviewer agrees that this horse mackerel stock should be assessed under Category D. The assessor has completed the PSA correctly and the peer reviewer agrees that the assigned scores result in a PASS outcome on Table D3. For this reason, the byproduct should remain approved for use as a raw material.

Notes for On-site Auditor

There are no concerns that requires attention from the on-site assessor



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
Horse mackerel	Trachurus trachurus	ICES 3.a, 4 and 7.d (Skagerrak and Kattegat, Southern and Central North Sea, Eastern English Channel)	No	D	Vulnerable ³	No

¹ https://www.iucnredlist.org/

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

³ https://www.iucnredlist.org/species/198647/43157137



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	NA	
C1	Catego	ory C Stock Sta	atus - Minimum Requirements	
CI	C1.1	Fishery remo	ovals of the species in the fishery under assessment are included in the stock assessment	
		process, OR	are considered by scientific authorities to be negligible.	
	C1.2	The species i	s considered, in its most recent stock assessment, to have a biomass above the limit	
			int (or proxy), OR removals by the fishery under assessment are considered by scientific o be negligible.	
			Clause outcome:	
consid	dered by	y scientific aut cies is conside	ne species in the fishery under assessment are included in the stock assessment process thorities to be negligible. Ered, in its most recent stock assessment, to have a biomass above the limit reference of the fishery under assessment are considered by scientific authorities to be negligible.	
C1.2 proxy	dered by The spec), OR re	y scientific aut cies is conside	chorities to be negligible.	
C1.2 proxy	dered by	y scientific aut cies is conside	chorities to be negligible. ered, in its most recent stock assessment, to have a biomass above the limit reference	
consideration C1.2 To proxy	dered by The spec), OR re	y scientific aut cies is conside	chorities to be negligible. ered, in its most recent stock assessment, to have a biomass above the limit reference	
C1.2 proxy Refer	dered by The spec), OR re ences	y scientific aut cies is conside	chorities to be negligible. Pered, in its most recent stock assessment, to have a biomass above the limit reference of fishery under assessment are considered by scientific authorities to be negligible.	
C1.2 proxy Refer	dered by The spec), OR rel ences	y scientific aut cies is conside movals by the	chorities to be negligible. Pered, in its most recent stock assessment, to have a biomass above the limit reference of fishery under assessment are considered by scientific authorities to be negligible.	



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.

1	Species Name	Horse mackerel (<i>Trachurus trachu</i>	rus)
	Productivity Attribut	e Value	Score
	Average age at maturity (years)	4.5 ¹	1
	Average maximum age (years)	19 ¹	2
	Fecundity (eggs/spawning)	12,700 - 740,000 ¹	1
	Average maximum size (cm)	70 ¹	1
	Average size at maturity (cm)	27 ¹	1
	Reproductive strategy	Broadcast spawner ¹	1
	Mean trophic level	3.7 ¹	3
		Average Productivity Score	1.43
Ī	Susceptibility Attribu	te Value	Score
	Availability (area overlap)	<10% overlap	1
Ī	Encounterability (the position of the s	tock/species High overlap	3
	within the water column relative to th	ne fishing gear)	3
	Selectivity of gear type	Individuals < size at maturity	3
		are frequently caught	3
	Post-capture mortality	Retained	3
		Average Susceptibility Score	2.5
		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

Availability: Horse mackerel distributes in the Eastern Atlantic: from Madeira, the Straits of Gibraltar and Canary and Cape Verde Islands to South Africa; northward extending into the Mediterranean Sea and along the Atlantic coasts of Europe to Norway ^{1,} and the ICES 3.a, 4 and 7.d regions (Skagerrak and Kattegat, Southern and Central North Sea, Eastern English Channel) only overlaps with less than 10% of the species distribution (figure 1).

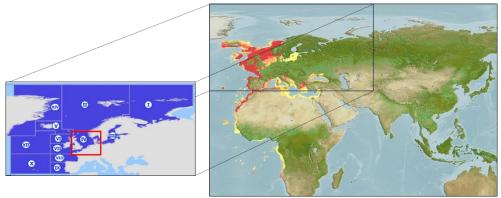


Figure 1. Horse mackerel distribution ¹ and in red square the ICES 3.a, 4 and 7.d regions under assessment ².

Encounterability: horse mackerel is a target species 3.



Selectivity of gear type: mean catch length in catches is 24.51 cm³.

Post-capture mortality: Discarding in the target pelagic fisheries is considered minimal ³.

References

- 1 https://fishbase.se/summary/Trachurus-trachurus.html
- 2 https://fish-commercial-names.ec.europa.eu/fish-names/fishing-areas/fao-area-27 en

3 ICES (2023). Horse mackerel (*Trachurus trachurus*) in divisions 3.a, 4.b–c, and 7.d (Skagerrak and Kattegat, southern and central North Sea, eastern English Channel). ICES Advice: Recurrent Advice. Report. https://doi.org/10.17895/ices.advice.21856536.v1

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	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 leased post-capture Id survival.	rel	idence of some eased post-capture d survival.	ma	etained species or ajority dead when leased.



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	

D4	Species Name		NA		
	Impact	ts On Species Categorise	ed 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 reasonab	ole measures are taken to minimise these impacts.		
	D4.2	There is no substantia species.	al evidence that the fishery has a significant negative impact on the		
Outcor	me:				
Eviden	ce				
reason	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 II	ileie is i	o substantial evidence	that the fishery has a significant negative impact on the species.		
Refere	nces				
Links					
Marin	Trust Sta	indard clause	1.3.2.2, 4.1.4		
FAO CO	FAO CCRF 7.5.1				
GSSI		·	D.5.01		