

MarinTrust Standard V2

By-product Fishery Assessment, GBR25, Horse mackerel (Trachurus trachurus), United Kingdom and Ireland

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

	Species:	Horse mackerel (Trachurus trachurus)	
	Geographical area:	FAO 27, Atlantic Northeast	
Fishery Under Assessment	Country of origin of the product:	United Kingdom and Ireland	
	Stock:	ICES 2.a, 4.a, 5.b, 6.a, 7.a-c, e-k, 8.	
Date	August 2023		
Report Code	GBR25		
Assessor	Blanca Gonzalez		
Country of origin of the product - PASS	United Kingdom and Ireland		
Country of origin of the product - FAIL	None		

Application details and	summary of the assess	ment outcome					
Company Name(s): Pelagia UK							
Country: United Kingd	om and Ireland						
Email address:		Applicant Code	e:				
Certification Body Deta	ails						
Name of Certification Body:		LRQA					
Assessor Peer Reviewer		Assessment Days	Initial/Surveillance/ Re-approval				
Blanca Gonzalez Sam Peacock		0.5	Surveillance 2				
Assessment Period	sessment Period August 2023-August 2024						

Scope Details	
Main Species	Horse mackerel (Trachurus trachurus)
Stock	ICES 2.a, 4.a, 5.b, 6.a, 7.a-c, e-k, 8. Northeast Atlantic
Fishery Location	FAO 27, Atlantic Northeast
Management Authority (Country/ State)	EU and UK
Gear Type(s)	Pelagic trawl, otter trawl, purse seine, other gears.
Outcome of Assessment	
Peer Review Evaluation	Agree with recommendation
Recommendation	Approve



Table 2. Assessment Determination

Assessment Determination

Horse mackerel (*Trachurus trachurus*) was assessed as a category C species considering that it is a Vulnerable species by the IUCN, it is not in included in any CITES Appendixes, reference points and annual quotas are stablished for management purposes (ICES 2022).

Horse mackerel is subject to annual stock assessment by ICES working group on widely distributed stocks (WGWIDE). The last assessment was carried out in 2022 using commercial catches data among other information. The spawning-stock size is below MSY B_{trigger}, B_{pa}, and B_{lim} and the forecast for 2024 indicates that SSB will continue to be below B_{lim} even under a scenario of zero catch in 2023. (ICES 2022). As the horse mackerel didn't meet the Category C requirements, the species was evaluated under Category D as indicated by the Marin Trust By-product assessment guidance.

In the Productivity-Susceptibility Analysis (PSA) horse mackerel was awarded an average productivity score of 1.43 and an average susceptibility score of 3, passing against Table D3, indicating that horse mackerel is not vulnerable to this fishery.

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

ICES (2022). Horse mackerel (*Trachurus trachurus*) in Subarea 8 and divisions 2.a, 4.a, 5.b, 6.a, 7.a–c, and 7.e–k (Northeast Atlantic). ICES Advice: Recurrent Advice. Report. https://doi.org/10.17895/ices.advice.19772383.v1

Fishery Assessment Peer Review Comments

The peer reviewer agrees with the initial assessment of Atlantic horse mackerel under Category C. The assessor has provided evidence that the stock was estimated in the most recent stock assessment to be below the limit reference point, and was therefore correct to subsequently assess the byproduct under Category D. The PSA has been conducted correctly and the PR agrees that the byproduct should remain approved.

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 trachuru	ICES 2.a, 4.a, 5.b, 6.a, 7.a-c, e-k, 8. Northeast Atlantic.	Yes	С	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	Horse mackerel (<i>Trachurus trachurus</i>)	
C1	Catego	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	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 be negligible.	FAIL
	•		Clause outcome:	FΔII

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.

Clause is met, considering that:

The stock was benchmarked in 2017, and reference points for horse mackerel stock assessment were updated in 2019 and 2021 by The International Council for exploration of the Sea (ICES) working group on widely distributed stocks (WGWIDE) (ICES 2022). Last assessment was carried out in 2022 implementing a Length and aged based analytical assessment that uses several data to feed the model, including commercial catches data; thus, removals of the species are included in the stock assessment process (ICES 2022) (Figure 1).

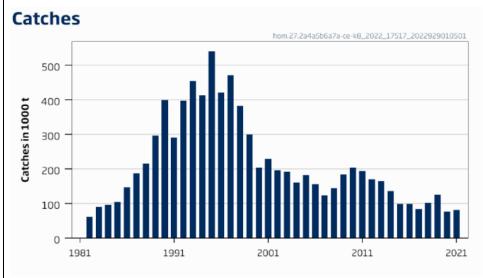


Figure 1. Horse mackerel catches in Subarea 8 and divisions 2.a, 4.a, 5.b, 6.a, 7.a-c, and 7.e-k (Northeast Atlantic) (ICES 2022).



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.

Clause is NOT met, considering that:

The 2022 horse mackerel stock assessment indicates that spawning-stock size is below MSY B_{trigger}, B_{pa}, and B_{lim}. The catch advice for 2023 is 100% lower compared to that provided in 2022, and the forecast for 2024 indicates that SSB will continue to be below B_{lim} even under a scenario of zero catch in 2023. (ICES 2022) (Figure 2).

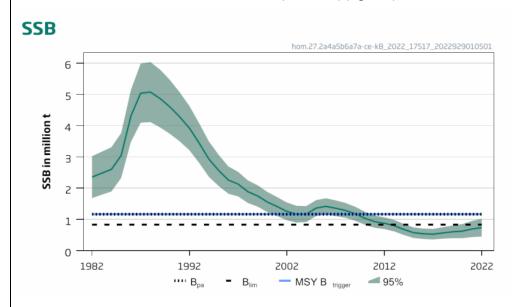


Figure 2. Spawning stock biomass for horse mackerel in Subarea 8 and divisions 2.a, 4.a, 5.b, 6.a, 7.a–c, and 7.e–k (Northeast Atlantic) (ICES 2022).

References

ICES (2022). Horse mackerel (Trachurus trachurus) in Subarea 8 and divisions 2.a, 4.a, 5.b, 6.a, 7.a–c, and 7.e–k (Northeast Atlantic). ICES Advice: Recurrent Advice. Report. https://doi.org/10.17895/ices.advice.19772383.v1

Links	
MarinTrust Standard clause	1.3.2.2
FAO CCRF	7.5.3
GSSI	D.3.04, D5.01



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		Horse mackerel (<i>Trachurus trachurus</i>)				
Productivity Attrib	ute	Value	Score			
Average age at maturity (years)		4.5	1			
Average maximum age (years)		19	2			
Fecundity (eggs/spawning)		96,943	1			
Average maximum size (cm)		70	1			
Average size at maturity (cm)		27	1			
Reproductive strategy		Broadcast spawner	1			
Mean trophic level		3.7	3			
		Average Productivity Score	1.43			
Susceptibility Attrib	oute	Value	Score			
Availability (area overlap)		>30%	3			
Encounterability (the position of the within the water column relative to		High overlap with fishing gear	3			
Selectivity of gear type		Individuals < size at maturity are frequently caught ¹	3			
Post-capture mortality		Retained	3			
		Average Susceptibility Score	3			
		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

References

https://www.fishbase.se/summary/Trachurus-trachurus.html

¹ ICES (2022). Working Group on Widely Distributed Stocks. ICES Scientific Reports. Report.

https://doi.org/10.17895/ices.pub.21088804.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		Low susceptibility Medium susceptibility			igh susceptibility		
attributes	(L	ow risk, score = 1)	(medium risk, score = 2)		(h	(high 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	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	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	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						
	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 manageme process, and reasonable measures are taken to minimise these impacts.								
	D4.2	There is no substantial species.	al evidence that the fishery has a significant negative impact on the					
			Outcome:					
D4.2 T	here is i	no substantial evidence	that the fishery has a significant negative impact on the species.					
Refere	ences							
Links								
Marin	Trust St	andard clause	1.3.2.2, 4.1.4					
FAO C	CRF		7.5.1					
GSSI			D.5.01					