



MarinTrust Standard V2

By-product Fishery Assessment Horse mackerel in the Northeast Atlantic

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

	Species:	Horse Mackerel (Trachurus trachurus)		
	Geographical area:	Northeast Atlantic		
Fishery Under Assessment	Country of origin of the product:	UK & Ireland		
	Stock:	ICES Subarea 8 and Divisions 2a, 4a, 5b, 6a, 7a- c and 7e-k		
Date	November 2022			
Report Code	GBR25			
Assessor		Sam Peacock		
Country of origin of the product - PASS	UK & Ireland NONE			
Country of origin of the product - FAIL				

Application details and summary of the assessment outcome							
Company Name(s): Pelagia							
Country: UK & Ireland							
Email address: geraldir	ne.fox@pelagia.com	Applicant Code	e:				
Certification Body Deta	ails						
Name of Certification 8	Body:	LRQA					
Assessor Peer Reviewer		Assessment Days	Initial/Surveillance/ Re-approval				
Sam Peacock Kate Morris		0.2	Re-approval				
Assessment Period	N	November 2022 – November 2023					

Scope Details						
Main Species	Horse Mackerel (Trachurus trachurus)					
Stock	ICES Subarea 8 and Divisions 2a, 4a, 5b, 6a, 7a-c and 7e-k					
Fishery Location	Northeast Atlantic					
Management Authority (Country/ State)	UK & EU					
Gear Type(s)	Pelagic trawls, purse seines					
Outcome of Assessment						
Peer Review Evaluation	Pass					
Recommendation	Maintain approval					



Table 2. Assessment Determination

Assessment Determination

Horse mackerel has been categorised by the IUCN as Vulnerable and does not appear in the CITES appendices. In the Northeast Atlantic it is managed relative to established reference points using an annual quota, and therefore was initially assessed under Category C.

Horse mackerel in the Northeast Atlantic is subject to annual stock assessment by ICES. The most recent assessment was conducted in 2022 and utilised all catch data. The assessment concluded that horse mackerel biomass was below the limit reference point and ICES recommended that catches in 2023 should be zero. As the byproduct did not meet the requirements of Category C, as per the MT byproduct assessment guidance it was subsequently assessed under Category D.

Under Category D, horse mackerel was awarded a Productivity score of 1.43 and a Susceptibility score of 3, leading to a rating of Pass on Table D3. For this reason the byproduct should remain approved for use as a raw material in MarinTrust-Certified products.

Fishery Assessment Peer Review Comments

The by-product fishery under assessment here is Horse Mackerel (*Trachurus trachurus*) fishery is pursued by UK and Irish vessels in FAO fishing area 27, ICES Subarea 8 and Divisions 2a, 4a, 5b, 6a, 7a-c and 7e-k. Horse Mackerel is managed by the EU in EU waters under the Common Fisheries Policy and the UK Fisheries Act in UK waters. For this Marin Trust assessment, Horse Mackerel stock is scored as a category D species.

All species scoring tables have been completed by the auditor with sufficient evidence presented to support their final determination.

The peer review supports the auditor's recommendation to Pass both stocks of the fishery under the Marin Trust IFFO RS v2.0 by-fishery standard for the production of fishmeal and fish oil.

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
Horse mackerel	Trachurus trachurus	ICES Subarea 8 and Divisions 2a, 4a, 5b, 6a, 7a-c and 7e-k	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	
C1	Categ	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	reference po	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:	FAIL

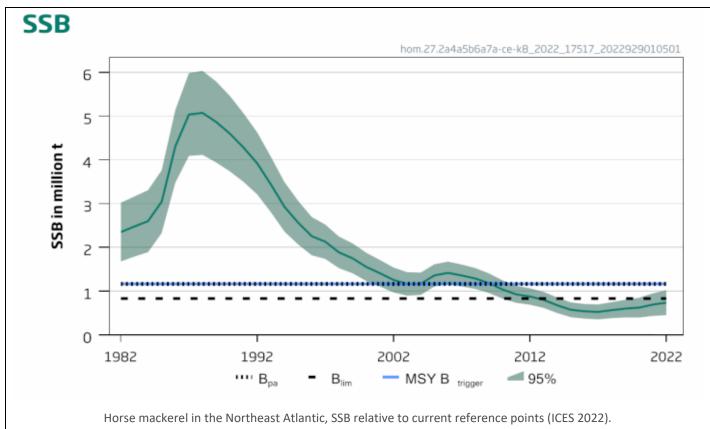
C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible.

Horse mackerel in the Northeast Atlantic is subject to an annual stock assessment by the ICES Working Group on Widely Distributed Stocks (WGWIDE). The most recent assessment was carried out in 2022 and used a length- and age-based analytical assessment which utilised international commercial catch, length, and age data, three survey indices, a combined recruitment index, and considered discard data (ICES 2022). There is no indication in the ICES catch advice that the information required to conduct the assessment is incomplete. C1.1 is met.

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.

The 2022 catch advice provides an indication of stock status relative to formally established reference points. The target reference points MSY B_{trigger} and B_{pa} are defined as 1,168,272t. The limit reference point B_{lim} is set at 834,480t. The stock assessment outcomes included a projection for SSB in 2023 of 754,163t, below the limit reference point. Additionally, the advice states that "spawning-stock size is below MSY B_{trigger}, B_{pa}, and B_{lim}" (ICES 2022). The stock does not meet the requirements of C1.2, and as per the MT byproduct assessment guidance should be assessed under Category D.





References

ICES (2022). Horse mackerel (*Trachurus trachurus*) in Subarea 8 and divisions 2.a, 4.a, 5.b, 6.a, 7.a-c,e–k (the Northeast Atlantic). In Report of the ICES Advisory Committee, 2022. ICES Advice 2022,

hom.27.2a4a5b6a7a-ce-k8. https://doi.org/10.17895/ices.advice.19772383

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

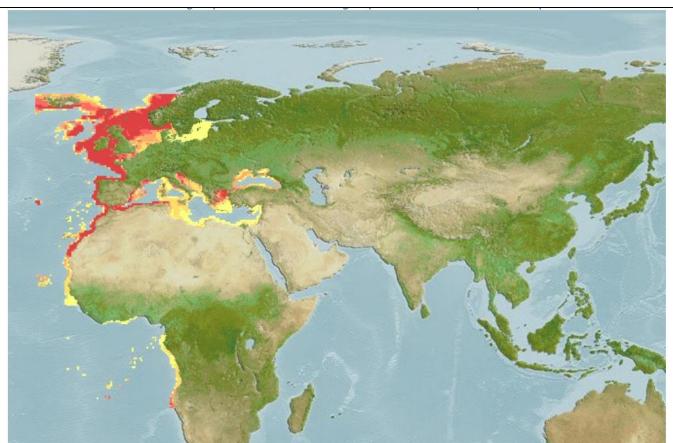


CATEGORY D SPECIES

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.

D1	Species Name	Horse mackerel	
	Productivity Attribute	Value	Score
	Average age at maturity (years)	4.5 years	1
	Average maximum age (years)	19 years	2
	Fecundity (eggs/spawning)	96,943	1
	Average maximum size (cm)	70cm	1
	Average size at maturity (cm)	27cm	1
	Reproductive strategy	Broadcast spawner	1
	Mean trophic level	3.7	3
		Average Productivity Score	1.43
	Susceptibility Attribute	Value	Score
	Availability (area overlap)	>30%	3
	Encounterability (the position of the stock/sp the water column relative to the fishing gear)	Ιατσατασ	3
	Selectivity of gear type	Retained	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 For susceptibility attributes, please provide a affecting your decision	g (where relevant) brief rationale for scoring of parameters where there r	may be uncertainty





Horse mackerel distribution, computer generated. From Fishbase, https://www.fishbase.se/summary/Trachurus-trachurus.html

References

Fishbase, Atlantic horse mackerel. https://www.fishbase.se/summary/Trachurus-trachurus.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		ow susceptibility		edium susceptibility		High 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	<1	<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	fis	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	vidence of majority leased post-capture Id survival.	rel	idence of some eased post-capture d 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	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	ecies 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:							
Eviden	nce								
D4.2 T	here is r	no substantial evidence that the fishery has a significant negative impact on the species.							
Refere	ences								
Links									
	Trust Sta	andard clause 1.3.2.2, 4.1.4							
FAO C	CRF	7.5.1							

D.5.01

GSSI