



MarinTrust Standard V2

By-product Fishery Assessment

Herring (*Clupea harengus*) in FAO 27,

ICES subdivisions 25–29 and 32,
excluding the Gulf of Riga (central Baltic Sea).

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:	Herring (Clupea harengus)		
Fishery Under Assessment	Geographical area:	FAO Area 27 Northeast Atlantic, ICES divisions 3.c.22-d.32: subdivisions 25–29 and 32, excluding the Gulf of Riga (central Baltic Sea).		
	Country of origin of the product:	Norway (Flag countries: Denmark)		
	Stock:	Herring in ICES subdivisions 25–29 and 32, excluding the Gulf of Riga		
Date	29 June 2023			
Report Code	NOR19			
Assessor	Léa Lebechnech			
Country of origin of the product - PASS	Norway (Flag countries: Denmark)			
Country of origin of the product - FAIL	N/A			

Application details and summary of the assessment outcome							
Company Name(s): Scanbio Ingredients AS							
Country: Norway							
Email address:		Applicant Code	e:				
Certification Body De	Certification Body Details						
Name of Certification	Body:	Global Trust Co	ertification				
Assessor Peer Reviewer		Assessment Days	Initial/Surveillance/ Re-approval				
Léa Lebechnech	Léa Lebechnech Matthew Jew 0.5 Initial						
Assessment Period To June 2023							

Scope Details	
Main Species	Herring (Clupea harengus)
Stock	Herring in ICES subdivisions 25–29 and 32, excluding the Gulf of Riga (central Baltic Sea).
Fishery Location	FAO Area 27 Northeast Atlantic
Management Authority (Country/ State)	Norway/European Union (Common Fisheries Policy-CFP)
Gear Type(s)	Pelagic trawls
Outcome of Assessment	
Peer Review Evaluation	Agree with assessor's recommendation
Recommendation	APPROVED



Table 2. Assessment Determination

Assessment Determination

If any species is categorised as Endangered or Critically Endangered on the IUCN Red List, or if it appears in the CITES appendices, it cannot be approved for use as Marin Trust raw material. Herring (*Clupea harengus*) does not appear as Endangered or Critically Endangered on the IUCN Red List, nor does it appear in the CITES appendices; therefore, herring is eligible for approval for use as Marin Trust raw material.

There is a species-specific management regime in place for this stock, an EU multiannual plan (MAP) for the Baltic Sea, including a stock assessment with reference points defined and a TAC set. Therefore, the stock was assessed under Category C.

In the last stock assessment, removals are considered, but the stock is below its limit reference point B_{lim} , therefore the stock PASSES clauses C1.1 but FAILS C1.2.

As per MT guidance, it has been assessed under Category D with a PSA risk-rating. With a productivity score of 1.29 and a susceptibility score of 2.25, the fishery PASSES Table D3.

Consequently, herring (*Clupea harengus*) in ICES subdivisions 25–29 and 32, excluding the Gulf of Riga (central Baltic Sea), is **APPROVED** for the production of fishmeal and fish oil under the Marin Trust Standard v.2.

Fishery Assessment Peer Review Comments

The assessor correctly classified herring (*Clupea harengus*) in ICES subdivisions 25–29 and 32, excluding the Gulf of Riga as Category C, the stock is subject to a specific management regime and reference points are defined by ICES.

Fishery removals are considered in the stock assessment process. The most recent stock assessment shows that the stock is below MSY B_{trigger}, B_{pa}, and B_{lim}. Therefore, the stock is considered to have biomass below the limit reference point (or proxy), so it was correctly assessed under Category D. The assessor correctly assigned values and scores on table D1. The given average attribute scores result in a passing score on Table D3.

Herring in ICES subdivisions 25–29 and 32 passes Category D and the PSA and therefore should be approved under the MarinTrust Standard v.2.

Notes for On-site Auditor

N/A



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
Herring	Clupea harengus	Herring in ICES subdivisions 25—29 and 32, excluding the Gulf of Riga (central Baltic Sea).	Norway, European Union (CFP)	Failed C Passed D	LC ³	No

¹ https://www.iucnredlist.org/

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

³ https://www.iucnredlist.org/species/155123/45074983



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	Herring (Clupea harengus)			
C1	Catego	ory C Stock Sta	atus - Minimum Requirements			
CI	C1.1	Fishery removals of the species in the fishery under assessment are included in the stock assessment Yes				
		process, OR	are considered by scientific authorities to be negligible.			
	C1.2	reference po	is considered, in its most recent stock assessment, to have a biomass above the limit point (or proxy), OR removals by the fishery under assessment are considered by scientific to be negligible.	Yes		
			Clause outcome:	PASS		

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.

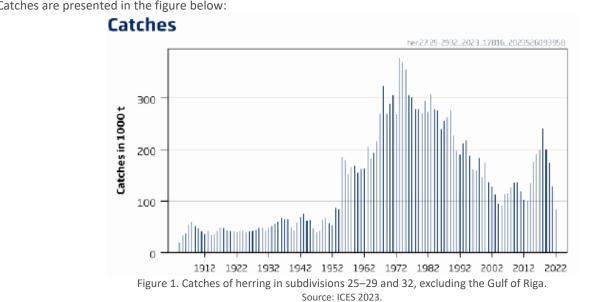
This stock is shared between the EU and Russian Federation. An EU MAP in place for stocks in the Baltic Sea includes herring (EU, 2016, 2019, 2020). The advice, based on the F_{MSY} ranges used in the management plan, is considered precautionary. Russian Federation does not have a management plan for this stock.

ICES advises that when the EU multiannual plan (MAP) for the Baltic Sea is applied, catches in 2024 that correspond to the F ranges in the plan are between 41 706 (corresponding to FMSYlower x SSB2024/MSY Btrigger) and 52 549 tonnes (corresponding to FMSY × SSB₂₀₂₄/MSY B_{trigger}). The current advice applies to all catches from the stock, including those taken in Subdivision 28.1.

The assessment type is an age-based analytical assessment, SS that uses catches in the model and in the forecast. An ensemble of 3 models is used where each model differs based on the assumed level of natural mortality.

The input data considered in the last stock assessment are the following: Commercial catches (international landings, age distributions from catch sampling); one survey acoustic index (BIAS A1588); natural mortalities from multispecies model (SMS) until 2021, 2022 = 2021. Catches for Russian Federation since 2022 are taken from AtlantNIRO. Discards are considered negligible.

Catches are presented in the figure below:



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Therefore, fishery removals of the species in the fishery under assessment are included in the stock assessment process and the stock PASSES clause C1.1.

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.

Fishing pressure on the stock is below F_{MSY} and spawning-stock size is below MSY B_{trigger}, B_{pa}, and B_{lim}.

Relative Fishing Pressure 1 1 1 1972 1982 1992 2002 2012 2022

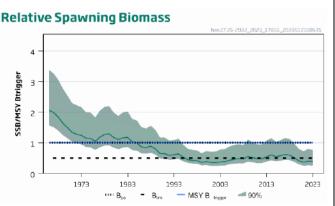


Figure 2. Herring in subdivisions 25–29 and 32, excluding the Gulf of Riga. Summary of the stock assessment. Source: ICES, 2023.

Therefore, the species is not considered, in its most recent stock assessment, to have a biomass above the limit reference point, so it fails clause C1.2.

As per MT guidance, it has been assessed under Category D.

References

ICES, 2023. Herring (*Clupea harengus*) in subdivisions 25–29 and 32, excluding the Gulf of Riga (central Baltic Sea). Replacing advice provided in May 2023. In Report of the ICES Advisory Committee, 2023. ICES Advice 2023, her.27.25–2932.

library.figshare.com/articles/report/Herring Clupea harengus in subdivisions 25 29 and 32 excluding the Gulf of Riga c entral Baltic Sea Replacing advice provided in May 2023/23310368?backTo=/collections/ICES Advice 2023/6398177

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



CATEGORY D SPECIES

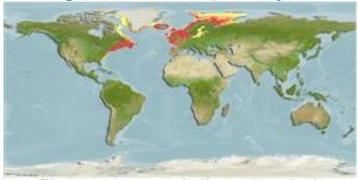
Category D species are those which are not subject to a species-specific management regime. In the case of mixed trawl fisheries, Category D species may make up the majority of landings. The comparative lack of scientific information on the status of the population of the species means that a risk-assessment style approach must be taken.

D1	Species Name	Species Name Herring (Clupea harengus)					
	Productivity Attribute		Value	Score			
	Average age at maturity (years)		2.5	1			
	Average maximum age (years)		10.1	2			
	Fecundity (eggs/spawning)		21,000 ⁴ -59,700	1			
	Average maximum size (cm)		35.2	1			
	Average size at maturity (cm)		20.5	1			
	Reproductive strategy		Broadcast spawner	1			
	Mean trophic level		3.4	2			
			Average Productivity Score	1.29			
	Susceptibility Attribute	9	Value	Score			
	Availability (area overlap)		Small overlap <10%	1			
	Encounterability (the position of the stock/species		Marine; brackish; benthopelagic;				
	within the water column relative to th	ne water column relative to the fishing gear) oceanodromous, depth range 0-364		2			
			m, usually 0-200 m				
	Selectivity of gear type		No information, precautionary score	3			
	Post-capture mortality		Retained	3			
	Average Susceptibility Score						
	PSA Risk Rating (From Table D3)						
	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





This map was computer-generated and has not yet been reviewed.

Clupea harengus AquaMaps Data sources: GBIF OBIS

References

Fishbase, Clupea harengus Linnaeus, 1758. Atlantic herring:

https://www.fishbase.se/Summary/SpeciesSummary.php?ID=24&AT=herring

Standard clauses 1.3.2.2

⁴ This minimum value has been taken from https://scottishherring.org/about-scottish-herring/spawning-ecology/



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		ow susceptibility ow risk, score = 1)		edium susceptibility nedium 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	fis	ow overlap with hing gear (low ecounterability).	ear (low Medium overlap with		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.	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	re	vidence of majority leased post-capture Id survival.	Evidence of some Retaine		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		