



## MarinTrust Standard V2

# By-product Fishery Assessment

## *GBR05 Haddock in FAO Area 27, ICES Divisions 7b-k*

### **MarinTrust Programme**

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**Table 1 Application details and summary of the assessment outcome**

Fishery Under Assessment	Species:	Haddock, <i>Melanogrammus aeglefinus</i>
	Geographical area:	FAO 27, Southern Celtic Seas & English Channel
	Country of origin of the product:	UK & Ireland
	Stock:	ICES Divisions 7b-k
Date	April 2023	
Report Code	GBR05	
Assessor	Sam Peacock	
Country of origin of the product - PASS	UK, Ireland	
Country of origin of the product - FAIL	None	

Application details and summary of the assessment outcome			
Company Name(s): Pelagia UK			
Country: UK			
Email address:		Applicant Code:	
Certification Body Details			
Name of Certification Body:		LRQA	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Sam Peacock	Sam Dignan	0.2	Re-approval
Assessment Period	April 2023 – April 2024		

Scope Details	
Main Species	Haddock, <i>Melanogrammus aeglefinus</i>
Stock	ICES Divisions 7b-k
Fishery Location	FAO 27, Southern Celtic Seas & English Channel
Management Authority (Country/ State)	UK, Ireland & EU
Gear Type(s)	All gears
Outcome of Assessment	
Peer Review Evaluation	Agree with determination.
Recommendation	Pass

**Table 2. Assessment Determination**

<b>Assessment Determination</b>
<p>Haddock has been categorised by the IUCN as Least Concern, and it does not appear in the CITES appendices. Haddock in ICES Divisions 7b-k is managed relative to established reference points and was assessed under Category C.</p> <p>The most recent stock assessment was conducted in 2022 and utilised all available catch data, including bycatch and discards. The stock assessment concluded that the current stock biomass is nearly four times larger than the target reference point, and therefore also substantially larger than the limit reference point. Haddock meets the byproduct requirements and should be re-approved for use as a raw material in MT-certified marine ingredients.</p>
<b>Fishery Assessment Peer Review Comments</b>
<p>No issues, agree with determination.</p>
<b>Notes for On-site Auditor</b>

## 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 a 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 <sup>1</sup>	CITES Appendix 1 <sup>2</sup>
Haddock	<i>Melanogrammus aeglefinus</i>	ICES 7b-k	Yes	C	Least Concern <sup>3</sup>	No

<sup>1</sup> <https://www.iucnredlist.org/>

<sup>2</sup> <https://cites.org/eng/app/appendices.php>

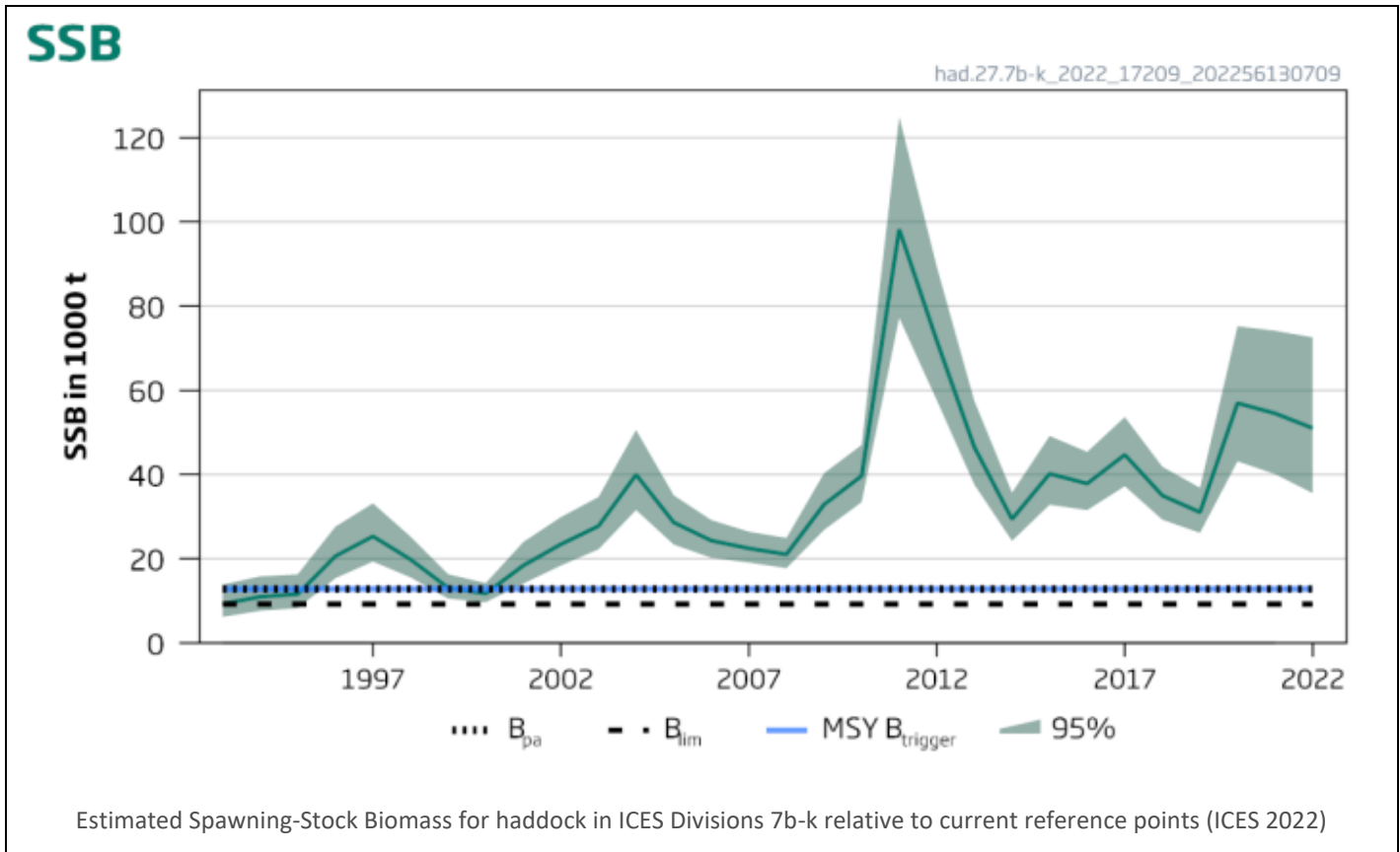
<sup>3</sup> <https://www.iucnredlist.org/species/13045/45097487>

## 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.

Species Name	Haddock		
<b>C1</b>	<b>Category C Stock Status - Minimum Requirements</b>		
	<b>C1.1</b>	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.	Pass
	<b>C1.2</b>	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.	Pass
			<b>Clause outcome:</b>
<b>Pass</b>			
<p><b>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.</b></p> <p>Haddock in ICES Divisions 7b-k is subject to regular stock assessment by the ICES Working Group for the Celtic Seas Ecoregion (WGCSE). The most recent assessment was carried out in 2022, and was an age-based stochastic analytical assessment which utilised commercial catch data including age composition of landings and discards, a combined survey index, maturity and natural mortality data. Discards and bycatch are both included in the assessment. The most recent ICES catch advice, published in June 2022, does not raise any concerns over the reliability of the stock assessment outcomes (ICES 2022). Fishery removals are included in the assessment process, and C1.1 is met.</p> <p><b>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.</b></p> <p>The annual ICES catch advice includes an indication of the current status of the resource relative to established reference points. The target reference points <math>MSY B_{trigger}</math>, <math>B_{pa}</math>, and <math>MAP MSY B_{trigger}</math> are set at 12,822t. The limit reference points <math>B_{lim}</math> and <math>MAP B_{lim}</math> are set at 9,227t. The 2022 stock assessment projected that SSB in 2023 will be 47,157t, nearly four times larger than the target reference point. Additionally, the catch advice states, “spawning-stock size is above <math>MSY B_{trigger}</math>, <math>B_{pa}</math>, and <math>B_{lim}</math>” (ICES 2022). Stock biomass is estimated to be substantially larger than both the target and limit reference points, and C1.2 is met.</p>			



**References**

ICES (2022). Haddock (*Melanogrammus aeglefinus*) in Divisions 7.b-k (southern Celtic Seas and English Channel). In Report of the ICES Advisory Committee, 2022. ICES Advice 2022, had.27.7b-k. <https://doi.org/10.17895/ices.advice.19447961>

**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.

<b>D1</b>	<b>Species Name</b>		
	<b>Productivity Attribute</b>	<b>Value</b>	<b>Score</b>
	Average age at maturity (years)		
	Average maximum age (years)		
	Fecundity (eggs/spawning)		
	Average maximum size (cm)		
	Average size at maturity (cm)		
	Reproductive strategy		
	Mean trophic level		
	<b>Average Productivity Score</b>		
	<b>Susceptibility Attribute</b>	<b>Value</b>	<b>Score</b>
	Availability (area overlap)		
	Encounterability (the position of the stock/species within the water column relative to the fishing gear)		
	Selectivity of gear type		
	Post-capture mortality		
	<b>Average Susceptibility Score</b>		
	<b>PSA Risk Rating (From Table D3)</b>		
	<b>Compliance rating</b>		
	<p><b>Further justification for susceptibility scoring (where relevant)</b>  <i>For susceptibility attributes, please provide a brief rationale for scoring of parameters where there may be uncertainty affecting your decision.</i></p>		
	<b>References</b>		
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 Potential of the gear to retain species	a Individuals < size at maturity are rarely caught	a Individuals < size at maturity are regularly caught.	a Individuals < size at maturity are frequently caught
	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	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 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			
<b>Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements</b>			
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.		
			<b>Outcome:</b>
<b>Evidence</b>			
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.			
<b>References</b>			
<b>Links</b>			
MarinTrust Standard clause		1.3.2.2, 4.1.4	
FAO CCRF		7.5.1	
GSSI		D.5.01	