



MarinTrust Standard V2

By-product Fishery Assessment

*Sprat, ICES Subarea 6 Divisions 7.a-c;
7.f-k (West of Scotland, Southern Celtic
Seas)*

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Sprat (<i>Sprattus sprattus</i>)
	Geographical area:	ICES Subarea 6 Divisions 7.a-c; 7.f-k
	Country of origin of the product:	U K & Ireland
	Stock:	West of Scotland, Southern Celtic Seas
Date	January 2023	
Report Code	GBR30	
Assessor	Vineetha Aravind	
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			
Country: U K & Ireland			
Email address: geraldine.fox@pelagia.com		Applicant Code:	
Certification Body Details			
Name of Certification Body:		LRQA	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Vineetha Aravind	Sam Peacock	0.5	Re-approval
Assessment Period	Jan 2023-Jan 2024		

Scope Details	
Main Species	Sprat (<i>Sprattus sprattus</i>)
Stock	West of Scotland, Southern Celtic Seas
Fishery Location	ICES Subarea 6 Divisions 7.a-c; 7.f-k
Management Authority (Country/ State)	UK & Ireland
Gear Type(s)	Midwater trawl
Outcome of Assessment	
Peer Review Evaluation	Agree
Recommendation	Approve byproduct

Table 2. Assessment Determination

Assessment Determination
<p>Sprat has been categorised by the IUCN Red List as Least Concern and does not appear in the CITES appendices. Species-specific management measures are not established in the West of Scotland, Southern Celtic Seas, and there are no established reference points and no regional management strategy. For these reasons, the species has been assessed under Category D.</p> <p>Sprat in the West of Scotland, Southern Celtic Seas was awarded a Productivity score of 1.29 and a Susceptibility score of 2.5, leading to a Pass rating on Table D3.</p> <p>Therefore, this by-product meets the MT requirements and should remain approved for use as a raw material in MT-certified marine ingredients</p>
Fishery Assessment Peer Review Comments
<p>PR agrees that the species meets the MT pre-requisites and has been correctly assessed under Category D. The PSA has been conducted correctly and PR agrees with the assessor’s conclusion that the byproduct should be approved for use as a raw material.</p>
Notes for On-site Auditor
Empty space for notes

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 ¹	CITES Appendix 1 ²
Sprat	<i>Sprattus sprattus</i>	West of Scotland, Southern Celtic Seas	No	D	Least concern	No

¹ <https://www.iucnredlist.org/>

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

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		
C1	Category C Stock Status - Minimum Requirements	
	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.
	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 outcome:
<p>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.</p> <p>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.</p>		
References		
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		Sprat		
	Productivity Attribute		Value	Score	
	Average age at maturity (years)		2 years	1	
	Average maximum age (years)		5 years	1	
	Fecundity (eggs/spawning)		6000-14000	2	
	Average maximum size (cm)		16 cm	1	
	Average size at maturity (cm)		8-13 cm	1	
	Reproductive strategy		Broadcast spawners	1	
	Mean trophic level		3.0 ±0.07	2	
	Average Productivity Score			1.29	
	Susceptibility Attribute		Value	Score	
	Availability (area overlap)		<10% overlap	1	
	Encounterability (the position of the stock/species within the water column relative to the fishing gear)		Targeted	3	
	Selectivity of gear type		Retained	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)				
	<i>For susceptibility attributes, please provide a brief rationale for scoring of parameters where there may be uncertainty affecting your decision</i>				
	Computer generated map of Sprats native range from Fishbase, https://www.fishbase.se/summary/sprattus-sprattus.html# .				
	References				

Fishbase, European Sprat. <https://www.fishbase.se/summary/sprattus-sprattus.html#>

ICES- FishMap, Sprat. <https://www.ices.dk/about-ICES/projects/EU-RFP/EU%20Repository/ICES%20FishMap/ICES%20FishMap%20species%20factsheet-sprat.pdf>

ICES (2021): Celtic Seas ecoregion – Fisheries overview. ICES Advice: Fisheries Overviews. Report.
<https://doi.org/10.17895/ices.advice.9098>

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			
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:			
Evidence			
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.			
References			
Links			
MarinTrust Standard clause		1.3.2.2, 4.1.4	
FAO CCRF		7.5.1	
GSSI		D.5.01	