



MarinTrust Standard V2

By-product Fishery Assessment Report Template

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:	FAO Area 27 North East Atlantic
	Country of origin of the product:	UK & Ireland
	Stock:	Subarea 6 and divisions 7.a–c and 7.f–k (West of Scotland, southern Celtic Seas)
Date	08 December 2021	
Report Code	BP239	
Assessor	Virginia Polonio	
Country of origin of the product - PASS	UK & Ireland	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Name:			
Address:			
Country: UK & Ireland		Zip:	
Tel. No.:		Fax. No.:	
Email address:		Applicant Code:	
Key Contact:		Title:	
Certification Body Details			
Name of Certification Body:			
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Virginia Polonio	Conor Donnelly	0.5	Re-approval
Assessment Period	December 2021		

Scope Details	
Main Species	Sprat (<i>Sprattus sprattus</i>)
Stock	Subarea 6 and divisions 7.a–c and 7.f–k (West of Scotland, southern Celtic Seas)
Fishery Location	FAO Area 27 North East Atlantic
Management Authority (Country/ State)	EU and UK and Ireland Department of Agriculture, Food and the Marine
Gear Type(s)	Midwater trawls
Outcome of Assessment	
Peer Review Evaluation	Agree with recommendation
Recommendation	APPROVED

Table 2. Assessment Determination

Assessment Determination
<p>If any species is categorised as Endangered or Critically Endangered on IUCN’s Red List, or if it appears in the CITES appendices, it cannot be approved for use as Marintrust raw material. Sprat, (<i>Sprattus sprattus</i>) do not appear as Endangered or Critically Endangered on IUCN’s Red List, nor do they appear in CITES appendices; therefore, sprat is eligible for approval for use as IFFO RS by-product raw material.</p> <p>No reference points exist for European sprat in subarea 6 and divisions 7.a–c and 7.f–k (West of Scotland, southern Celtic Seas). As the stock is not subject to a species-specific management regime it was assessed under Clause D using a risk-based productivity-susceptibility analysis which it passed.</p> <p>With an average productivity of 1.14 and susceptibility of 2.75 the PSA achieves a PASS.</p> <p>In order to be approved, the stock assessed must pass Clause D; therefore, as this is the case here, by-product covered by this report, Sprat in ICES Subarea 6 and divisions 7.a–c and 7.f–k (West of Scotland, southern Celtic Seas) is APPROVED for the production of fishmeal and fish-oil under the current Marin Trust v 2.0 by-products.</p>
Fishery Assessment Peer Review Comments
<p>Peer review confirmed that no reference points exist and the stock is therefore not subject to a species-specific management regime so it is necessary to assess under Clause D using a risk-based productivity-susceptibility analysis. Review of the productivity and susceptibility scoring confirms the PSA achieves a pass. Consequently, the peer review agrees with the recommendation to approve.</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 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
Sprat	<i>Sprattus sprattus</i>	Subarea 6 and divisions 7.a–c and 7.f–k	EU CFP	D	LC	No

¹ <https://www.iucnredlist.org/>

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

CATEGORY D SPECIES

Category D species are those which make up less than 5% of landings and 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	European sprat, <i>Sprattus sprattus</i>	
	Productivity Attribute	Value	Score
	Average age at maturity (years)	1.77	1
	Average maximum age (years)	7.9	1
	Fecundity (eggs/spawning)	8,700 – 46,000	1
	Average maximum size (cm)	13.1	1
	Average size at maturity (cm)	10.65	1
	Reproductive strategy	Open water / substratum egg scatterers	1
	Mean trophic level	3.0	2
	Average Productivity Score		1.14
	Susceptibility Attribute	Value	Score
	Overlap of adult species range with fishery	Between 25-50% of stock occurs in area fished	2
	Distribution	Throughout region	1
	Habitat	Pelagic	1
	Depth range	High overlap (10-150m)	3
	Selectivity	Up to 4m length	3
	Post-capture mortality	Most death	3
	Average Susceptibility Score		2.75
	PSA Risk Rating (From Table D3)		PASS
	Compliance rating		PASS
References			
https://www.fishbase.se/summary/Sprattus-sprattus.html			
Overlap & distribution information from the Aquamaps in the above link.			
<i>Standard clauses 1.3.2.2</i>			

Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	Low productivity/ High risk	Medium productivity/ Medium risk	High productivity/ Low risk
	Score 3	Score 2	Score 1
Average age at maturity (years)	>4	2 to 4	<2
Average maximum age (years)	>30	10 to 30	<10
Fecundity (eggs/spawning)	<1 000	1 000 to 10 000	>10 000
Average maximum size (cm)	>150	60 to 150	<60
Average size at maturity (cm)	>150	30 to 150	<30
Reproductive strategy	Live bearer, mouth brooder or significant parental investment	Demersal spawner "berried"	Broadcast spawner
Mean trophic level	>3.25	2.5–3.25	<2.5

Susceptibility attributes		High susceptibility/ High risk	Medium susceptibility/ Medium risk	Low susceptibility/ Low risk
		Score 3	Score 2	Score 1
Availability	1) Overlap of adult species range with fishery	>50% of stock occurs in the area fished	Between 25% and 50% of the stock occurs in the area fished	<25% of stock occurs in the area fished
	2) Distribution	Only in the country/fishery	Limited range in the region	Throughout region/global distribution
Encounterability	1) Habitat	Habitat preference of species make it highly likely to encounter trawl gear (e.g. demersal, muddy/sandy bottom)	Habitat preference of species make it moderately likely to encounter trawl gear (e.g. rocky bottom/reefs)	Depth or distribution of species make it unlikely to encounter trawl gear (e.g. epi-pelagic or meso-pelagic)
	2) Depth range	High overlap with trawl fishing gear (20 to 60 m depth)	Medium overlap with trawl fishing gear (10 to 20 m depth)	Low overlap with trawl fishing gear (0 to 10 m, >70 m depth)
Selectivity		Species >2 times mesh size or up to 4 m length	Species 1 to 2 times mesh size or 4 to 5 m length	Species <mesh size or >5 m length
Post capture mortality		Most dead or retained Trawl tow >3 hours	Alive after net hauled Trawl tow 0.5 to 3 hours	Released alive Trawl tow <0.5 hours

Note: Availability 2 is only used when there is no information for Availability 1; the most conservative score between Encounterability 1 and 2 is used.

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	