



MarinTrust Standard V2

By-product Fishery Assessment Sole, ICES Division 7a

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Table 1 Application details and summary of the assessment outcome

	Species:	Sole, <i>Solea solea</i>	
	Geographical area:	ICES Division 7a	
Fishery Under Assessment	Country of origin of the product:	France	
	Stock:	Sole in the Irish Sea	
Date	December 2022		
Report Code	FRA37		
Assessor	Sam Peacock		
Country of origin of the product - PASS	France		
Country of origin of the product - FAIL	None		

Application details and summary of the assessment outcome						
Company Name(s): BI	OCEVAL SAS Concarnea	au				
Country:						
Email address:		Applicant Cod	e:			
Certification Body Deta	ails					
Name of Certification Body:		LRQA				
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval			
Sam Peacock	Kate Morris	0.25	Surveillance			
Assessment Period	C	December 2022	– December 2023			

Scope Details	
Main Species	Sole, Solea solea
Stock	Sole in the Irish Sea
Fishery Location	ICES Division 7a
Management Authority	EU
(Country/ State)	EO
Gear Type(s)	Bottom trawl
Outcome of Assessment	
Peer Review Evaluation	Pass
Recommendation	Approve for use as MT raw material

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Table 2. Assessment Determination

Assessment Determination

Sole has been categorised by the IUCN as Least Concern and does not appear in the CITES appendices. Sole in the Irish Sea is managed using TACs set relative to established reference points, and was therefore assessed under Category C.

The stock is subjected to an annual stock assessment by ICES, the most recent of which was carried out in 2022. The assessment utilised international catch data and the ICES working group incorporated discards and bycatch into the catch recommendation. The assessment concluded that stock spawning biomass is currently above the target and limit reference points. Therefore, the by-product continues to meet the MT requirements and should remain approved for use as a raw material in certified marine ingredients.

Fishery Assessment Peer Review Comments

The by-product fishery under assessment here is the Sole (*Solea solea*) fishery, pursued by French fishing vessels in FAO fishing area 27, ICES subdivision 7a. Sole is managed by the EU Common Fisheries Policy and the French government, in French waters, and the UK fisheries act in the UK. For this Marin Trust assessment, the Sole stock is scored as a category C species as it's managed to species-specific reference points.

The species scoring table has been completed by the auditor with sufficient evidence presented to support their final determination.

The peer review supports the auditor's recommendation to the ICES 27, Sub7d, Sole stock pursued by 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
Sole	Solea solea	Irish Sea	Yes	С	Least Concern ³	No

¹ <u>https://www.iucnredlist.org/</u>

² https:/	/cites org/	/eng/	ann/	appendices.php	
nups./	/ CILES. OI g/	CIIS/	app	appendices.php	

³ https://www.iucnredlist.org/species/198739/87698320

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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	Sole	
C1	Catego	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	is considered, in its most recent stock assessment, to have a biomass above the limit wint (or proxy), OR removals by the fishery under assessment are considered by scientific o be negligible.	PASS
	•	•	Clause outcome:	PASS
		1 6.1		

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.

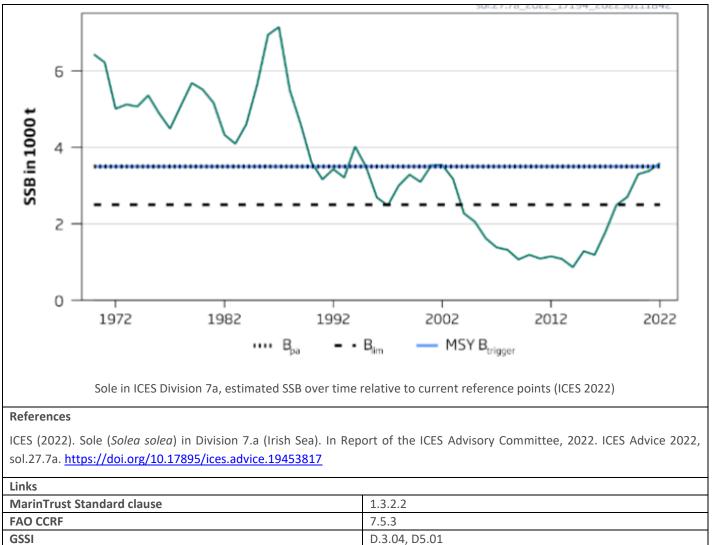
Sole in the Irish Sea is subjected to an annual stock assessment carried out by the ICES Working Group for the Celtic Seas Ecoregion (WGCSE). The results of the most recent stock assessment and the associated catch advice were published in June 2022. The stock assessment was an age-based analytical assessment which incorporates landings international landings data and age and length frequency data from catch sampling (ICES 2022). Discarding and bycatch are not included in the stock assessment but are incorporated into the catch advice. The catch advice document includes a section which discusses the quality of the assessment; the 2022 advice does not include any concerns relating to the incompleteness of catch data.

Fishery removals are included in the stock assessment process and 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 annual catch advice includes an indication of the status of the stock relative to established reference points. Although there is no management plan in place for the stock, the target reference points MSY B_{trigger} and B_{pa} have been set at 3,500t, and the limit reference point B_{lim} has been set at 2,500t. The output of the 2022 stock assessment included a short-term SSB forecast for 2023, putting it at 3,299t, above the limit reference point but below the target. The catch advice states "spawning-stock size is above MSY B_{trigger}, B_{pa}, and B_{lim}" (ICES 2022). The most recent stock assessment, therefore, concluded that stock spawning biomass is above the limit reference point, and C1.2 is met.







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	n/a						
	Productivity Attribut	e Value	Score					
	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							
		Average Productivity Score						
	Susceptibility Attribu	e Value	Score					
	Availability (area overlap)							
	Encounterability (the position of the s							
	within the water column relative to the	e fishing gear)						
	Selectivity of gear type							
	Post-capture mortality							
		Average Susceptibility Score						
		PSA Risk Rating (From Table D3)						
		Compliance rating						
	Further justification for susceptibility							
		ovide a brief rationale for scoring of parameters wh	ere there may be					
	uncertainty affecting your decision							
Refere	nces							
Stando	ard clauses 1.3.2.2							
5141144								



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)		igh susceptibility igh risk, score = 3)
Areal overlap (availability) Overlap of the fishing effort with the species range	<1	0% overlap	10	-30% overlap		0% 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	w overlap with hing gear (low counterability).		edium overlap with hing gear.	fis en De	gh overlap with hing gear (high counterability). efault score for rget 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	ь	Individuals < size at maturity can escape or avoid gear.	ь	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 d survival.	rel	idence of some eased post-capture d survival.	m	etained species or ajority dead when leased.

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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	cies Name	
	Impac	ts On Species Categorised as Vuln	erable by D1-D3 - Minimum Requirements
	D4.1	The potential impacts of the fis	hery on this species are considered during the management
		process, and reasonable measur	es are taken to minimise these impacts.
	D4.2	There is no substantial evidence	e that the fishery has a significant negative impact on the
		species.	
			Outcome:
		easures are taken to minimise the	se impacts.
		o substantial evidence that the f	ishery has a significant negative impact on the species.
Refere		o substantial evidence that the f	ishery has a significant negative impact on the species.
Links	ences		
Links Marin	ences Trust Sta	no substantial evidence that the f	1.3.2.2, 4.1.4
Links	ences Trust Sta		