



MarinTrust Standard V2

By-product Fishery Assessment Report Template

MarinTrust Programme

Unit C, Printworks

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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Brown crab <i>Cancer pagurus</i>
	Geographical area:	FAO Fishing Area 27 (Northeast Atlantic)
	Country of origin of the product:	UK and Ireland
	Stock:	South West Ireland and Celtic Sea Assessment Units
Date	May 2021	
Report Code	BP74	
Assessor	Conor Donnelly	
Country of origin of the product - PASS	UK & Ireland	
Country of origin of the product - FAIL		

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:		Global Trust Certification	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/Re-approval
Conor Donnelly	Virginia Polonio	0.5	Re-approval
Assessment Period	2021		

Scope Details	
Main Species	Brown crab <i>Cancer pagurus</i>
Stock	South West Ireland and Celtic Sea Assessment Units
Fishery Location	FAO Fishing Area 27 (Northeast Atlantic)
Management Authority (Country/ State)	EU
Gear Type(s)	Pot, trap
Outcome of Assessment	
Peer Review Evaluation	Agree with assessor's determination
Recommendation	Approve

Table 2. Assessment Determination

Assessment Determination
<p>In 2010 the ICES Working Group on the Biology and Life History of Crabs (WGCRAB) agreed a series of assessment units covering fisheries exploited by vessels from UK, Ireland, France, Norway and Sweden. Four of these surround the Irish coast and this assessment covers the crab stock found in the South East Ireland / Celtic Sea unit.</p> <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. Brown crab does not appear as Endangered or Critically Endangered on IUCN's Red List, nor does it appear in CITES appendices; therefore, brown crab in the South East Ireland / Celtic Sea assessment unit is eligible for approval for use as MARINTRUST by-product raw material.</p> <p>None of the four stocks/assessment units around the Irish coast are currently subject to stock assessment (ICES, 2021¹). Consequently, the stock is classified as a Category D species and assessed through a risk-assessment approach using productivity-susceptibility analysis (PSA).</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 is APPROVED for the production of fishmeal and fish oil under the current MARINTRUST v2 by-product standard.</p>
Fishery Assessment Peer Review Comments
<p>The stock has been correctly classified as there are no reference points defined for this species and therefore, the PSA must be taken.</p> <p>The PSA has been properly scored and it has achieved a PASS in table D3.</p> <p>The PR agrees with the assessor's determination.</p>
Notes for On-site Auditor

¹ ICES. 2021. Working Group on the Biology and Life History of Crabs (WGCRAB; outputs from 2019 meeting). ICES Scientific Reports. 3:32. 68 pp. <https://doi.org/10.17895/ices.pub.8003>

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 ²	CITES Appendix 1 ³
Brown crab	<i>Cancer pagurus</i>	S.E. Ireland / Celtic Sea	Ireland, EU ⁴	D	Not listed	Not listed

² <https://www.iucnredlist.org/>

³ <https://cites.org/eng/app/appendices.php>

⁴ http://www.irishstatutebook.ie/eli/2019/si/26/made/en/print?num=26&years=2019&search_type=all

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	