

IMPACT DIMENSION	IMPACT INDICATOR	PERFORMANCE	RATIONALE
Life on Planet & Natural Resources			
Climate Change	Product Carbon Footprint (PCF)		<i>Low to moderate PCF (4 kg CO₂ eq./kg product at store)</i>
Biodiversity Loss	Loss of biodiversity & biosphere integrity		<i>No indication for overexploitation, resilient species</i>
Habitat Degradation	Destruction of Vulnerable Marine Ecosystems (VMEs)		<i>Minimal interaction with seabed (crab dragging)</i>
Freshwater Depletion	Risk of freshwater depletion		<i>No freshwater use</i>
Eutrophication	Discharge of nitrogen (N) and phosphorous (P)		<i>No use and discharge of N-P compounds</i>
Toxic Compounds	Pollution with toxic chemicals and pesticides		<i>No use and discharge of toxic compounds</i>
People & Coastal Communities			
Human Rights	Human rights & decent work conditions		<i>Cooperatives with moderate risks of abusive practices</i>
Workers' Safety	Exposure to health & safety hazards		<i>Moderate safety level at sea and in factories</i>
Community Inclusiveness	Fair value chain participation by communities		<i>Community fishery with limited value participation</i>
Animal Welfare			
Living Conditions	Natural behaviour during lifetime		<i>Life in the wild, no husbandry systems</i>
Physical Stress	Stress & physical damage during or after capture		<i>Octopus immediately killed by spiking (Japanese style)</i>
Humane Slaughter	Pain & suffering during slaughter		<i>No stunning but immediate brain death after capture</i>



BLUEYOU OCEAN IMPACT TRACKER

METHODOLOGY FOR ASSESSMENT AND SCORING GUIDEPOST WILD CAUGHT SEAFOOD

Version 1.0 Oct 2023

Assessment Date:	November 20 2023	Species Name	Octopus maya
Assessor Name:	Fabian Mollet	Country of Origin	Mexico
Unit of Origin Code:	W-QQY-1	Catch & Harvesting Area	Yucatan Peninsula, Mexico (FAO 31)
		Origin Type	Wild Capture Fisheries
		Farming / Fishing Method	Single Baited Lines (EU Code: LNP) "Garreteo"
		Operation Type	Community-based small-scale fishery

LIFE ON PLANET & NATURAL RESOURCES						Score	Comments and Remarks for Assessment
Impact Dimension	Parameter for Evaluation	Assesment Indicators and Metrics	Scoring Guidepost				
			1 Negative impact / Critical performance	2 Moderate impact / Acceptable performance	3 Positive impact / Good performance		
Climate Change Impact	LCA-based carbon footprint	Carbon Footprint in Kg Co2 Eq. / kg final product on POS in market	High footprint (> 8.0 kg CO ₂ eq./kg product at store)	Moderate footprint (3.0 - 8.0 kg CO ₂ eq./kg product at store)	Low footprint (< 3.0 kg CO ₂ eq./kg product at store)	2	PCF low to moderate, 4 kg CO ₂ eq. / kg product at store
Ecosystems & Biodiversity	Biospere integrity and biodiversity loss	Biodiversity loss, ETP impact, overexploitation	Critical biodiversity loss OR significant mortality of ETP species, threatening ecosystem integrity OR stocks overexploited through fishery under assessment	Moderate risk for biodiversity loss, marginal mortality of ETP species, low risk of ecosystem integrity change, no overexploitation by the fishery under assessment	No risk for biodiversity loss, negligible mortality of ETP species, no risk of ecosystem integrity change, no overexploitation for any of the affected species	3	Stock status unclear but species resilient. Fishery gear is 100% selective for octopus. Crabs used as baits, stock status unclear/unknown but assumed to be safe as long as bait supply is abundant (there were concerns that horseshoe crabs might be used as bait but we deem this highly unlikely/hypothetical).
Habitat Degradation	Habitat system change due fishing gear impact	Destructiveness of fishing gear versus sensitivity of habitat	Irreversible damage and long term degradation to sensitive habitats	Moderate gear-seafood interaction, not highly sensitive habitat, causing some damage that is reversible	No gear-seafood interaction	3	Minimal interaction with seabed (dragging a crab along a sandy/rocky the floor).
Freshwater Use	Depletion of freshwater	Use of freshwater and risk of depletion (feed and farming)	High consumption and critical risk for depletion	Moderate consumption / freshwater no depletion risk	No use of freshwater	3	No freshwater use
Eutrophication	Discharge of critical nutrients (N,P)	Risk of eutrophication in feed production and aquaculture	High risk (agriculture and aquaculture)	Moderate risk	Low / No Risk	3	No use and discharge of N-P compounds
Toxic Compounds	Pollution with chemicals and pesticides	Use of chemicals, pesticides, antibiotics and toxic compounds	Frequent and continous use as part of SOP	Moderate and occasional use under GAP	No use as part of SOP	3	No use and discharge of toxic compounds

PEOPLE & COASTAL COMMUNITIES						Score	Comments and Remarks for Assessment
Impact Dimension	Parameter for Evaluation	Assesment Indicators and Metrics	Scoring Guidepost				
			1 Negative impact / Critical performance	2 Moderate impact / Acceptable performance	3 Positive impact / Good performance		
Human Rights & Work Conditions	Human rights and decent work conditions	Risk for human right abuse and critical work conditions (fishing and processing)	High risk	Moderate risk	Low risk	2	Cooperatives with moderate risks of abusive practices
Workers' Safety	Safe working conditons along supply chain	Risk for critical working conditions on fishery fleet and processing level	High risk	Moderate risk	Low risk	2	Moderate safety level at sea and in factories
Community Inclusiveness	Fair value and participation of communities	Level of involvement of local community in fishing operation and value chain	No / Low	Moderate	High	2	Community fishery with limited value participation

ANIMAL WELFARE						Score	Comments and Remarks for Assessment
Impact Dimension	Parameter for Evaluation	Assesment Indicators and Metrics	Scoring Guidepost				
			1 Negative impact / Critical performance	2 Moderate impact / Acceptable performance	3 Positive impact / Good performance		
Living Conditions & Quality of Life	Husbandry system which respects natural behaviour	Husbandry systems, species appropriate stocking densities, natural environment	n.a.	n.a.	Default selector for wild caught seafood systems (species live in their natural, wild environment)	3	Life in the wild, no husbandry systems
Capture, Harvesting & Handling	Reducing stress during harvesting & handling	Risk of exposure to prolonged stress, pain and injuries	High risk for prolonged stress during catch, pain and multiple injuries, high by-catch rates, risk for ghost gear mortalities	Moderate exposure to stress, improved handling and quick process of catch and handling	Optimized handling to reduce stress to minimum	3	Octopus immediately killed by spiking (Japanese style)
Stunning & Humane Slaughter	Stunning before slaughtering	Objective: Vertebrate and Decapod Crustacean are stunned prior to killing	No stunning and prolonged suffering prior to death	No stunning but moderate risk for prolonged suffering	Effective stunning in place within minimal time between stunning and slaughter	2	No stunning but immediate brain death after capture