



## MarinTrust Standard V2

## By-product Fishery Assessment Yellowfin tuna in FAO Areas 77 & 87 (Eastern Pacific Ocean)

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# Table 1 Application details and summary of the assessment outcome

	Species:	Yellowfin tuna, Thunnus albacares
	Geographical area:	FAO Areas 77 & 87
Fishery Under Assessment	Country of origin of the product:	Mexico
	Stock:	Eastern Pacific Ocean Yellowfin
Date		February 2023
Report Code		MEX01
Assessor		Sam Peacock
Country of origin of the product - PASS		Mexico
Country of origin of the product - FAIL		None

Application details and	summary of the asses	ssment outcome			
Company Name(s): M	az Industrial				
Country: Mexico					
Email address:		Applicant Cod	e:		
Certification Body Deta	ails				
Name of Certification	Body:		LRQA		
		Assessment	Initial/Surveillance/		
Assessor	Peer Reviewer	Days	Re-approval		
Sam Peacock	Kate Morris	0.2	Surveillance 2		
Assessment Period		February 2023	– February 2024		

Scope Details	
Main Species	Yellowfin tuna, Thunnus albacares
Stock	Eastern Pacific Ocean Yellowfin
Fishery Location	FAO Areas 77 & 87
Management Authority (Country/ State)	Inter-American Tropical Tuna Commission (IATTC)
Gear Type(s)	Purse seine, longline, pole & line, handline
Outcome of Assessment	
Peer Review Evaluation	Pass
Recommendation	Pass

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## Table 2. Assessment Determination

#### **Assessment Determination**

Yellowfin tuna has been categorised by the IUCN as a species of Least Concern, and it does not appear in the CITES appendices. Yellowfin in the Eastern Pacific Ocean (EPO) is managed by the Inter-American Tropical Tunas Commission (IATTC) relative to Stock Status Indicators (SSIs), and was therefore assessed under Category C.

EPO yellowfin was subjected to a new form of risk-based assessment in 2022, using multiple SSI models to estimate the likelihood that fishing mortality and stock biomass are above or below the target and limit reference points. The modelling incorporates all available data from the entire EPO. The 2022 assessment concluded that there was a low probability that stock biomass is below the target reference point, and zero probability that the stock biomass is below the limit reference point. The byproduct therefore continues to meet the MT requirements and should remain approved for use as a raw material.

**Fishery Assessment Peer Review Comments** 

The by-product fishery under assessment here is the Yellowfin tuna (*Thunnus albacares*) fishery, pursued by vessels in FAO fishing area 77 and 87. Yellowfin tuna is managed by Inter-American Tropical Tuna Commission (IATTC) and flag state regulations. For this Marin Trust assessment, the Yellowfin tuna stock was scored against Category C.

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 pass the FAO 77 and 87, Yellowfin tuna 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 <sup>1</sup>	CITES Appendix 1 <sup>2</sup>
Yellowfin tuna	Thunnus albacares	Eastern Pacific Ocean Yellowfin	Yes	С	Least Concern <sup>3</sup>	No

<sup>&</sup>lt;sup>1</sup> <u>https://www.iucnredlist.org/</u>

<sup>2</sup> https:/	/cites org/	/eng/ann/	appendices.php	
nups./	/ LILES. UI g/	eiig/app/	appendices.php	

<sup>&</sup>lt;sup>3</sup> https://www.iucnredlist.org/species/21857/46624561

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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	Yellowfin tuna	
<b>C1</b>	Catego	or <mark>y C Stock St</mark> a	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	s considered, in its most recent stock assessment, to have a biomass above the limit int (or proxy), OR removals by the fishery under assessment are considered by scientific o be negligible.	PASS
	•	•	Clause outcome:	PASS

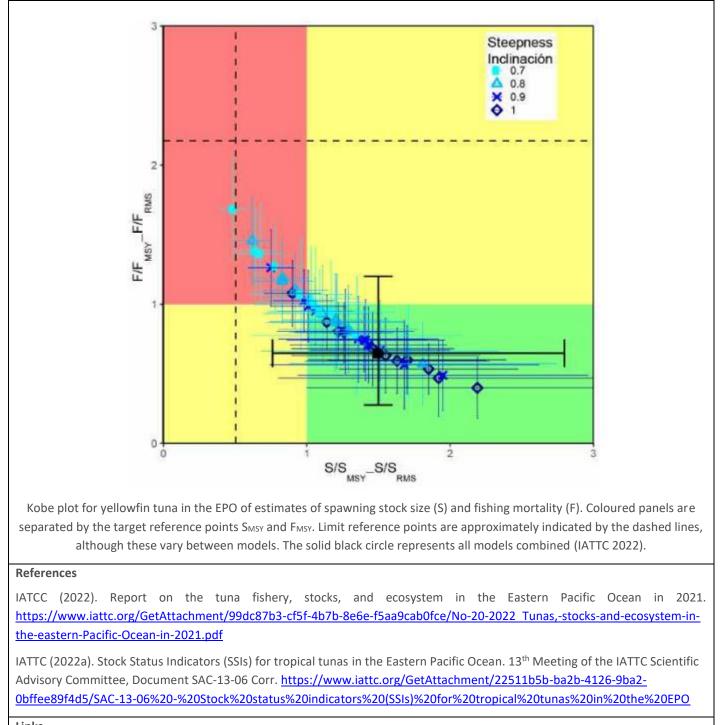
C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible.

The Eastern Pacific Ocean (EPO) yellowfin tuna stock is managed and assessed by the Inter-American Tropical Tunas Commission (IATTC). A new risk-based approach was applied to the management of the stock in 2022, with Stock Status Indicators (SSIs) developed using catch and other data collected from the EPO as a whole (IATTC 2022). SSIs are considered to be important alternatives to formal stock assessments, particularly where those stock assessments may be too unreliable to form the basis for management advice (IATTC 2022a). Fishery removals are a key component of the modelling used to generate SSI's, and their development and use is evidence that managers have sought out alternative mechanisms where stock assessment uncertainty is high.

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.

Multiple reference models are utilised to create a risk-based understanding of stock status. The most recent results indicate that "the probability of the spawning biomass being below  $S_{MSY_d}$  [i.e., the target reference point] is low (12%)" (IATTC 2022), and that the probability of the biomass being below the limit reference point  $S_{LIMIT}$  is zero. There is therefore a low probability that biomass is currently below the target reference point and almost no possibility it is below the limit reference point.





LINKS	
MarinTrust Standard clause	1.3.2.2
FAO CCRF	7.5.3
GSSI	D.3.04, D5.01

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## 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.

<b>D1</b>	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 Attribut	e Value	Score
	Availability (area overlap)		
	Encounterability (the position of the s		
	within the water column relative to th	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		
Standa			



## 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

<b>D4</b>	Spe	cies Name	
	Impac	ts On Species Categorise	d 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 reasonab	le measures are taken to minimise these impacts.
	D4.2	There is no substantia	I evidence that the fishery has a significant negative impact on the
		species.	
			Outcome:
		asures are taken to min	shery on this species are considered during the management process, and imise these impacts.
D4.2 T	here is r	o substantial evidence	hat the fishery has a significant negative impact on the species.
Refere		o substantial evidence	hat the fishery has a significant negative impact on the species.
Refere	ences		
Refere Links Marin	ences Trust Sta	no substantial evidence	1.3.2.2, 4.1.4
Refere	ences Trust Sta		