

MarinTrust RS V2.0



BYPRODUCT FISHERY ASSESSMENT TEMPLATE REPORT

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TABLE 1 APPLICATION DETAILS AND SUMMARY OF THE ASSESSMENT OUTCOME

Fishery Under Assessment	Species:	Yellowfin tuna (<i>Thunnus albacares</i>)
	Geographical area:	FAO 77 (Pacific, Eastern Central) and 87 (Pacific, Southeast)
	Country of origin of the product:	Thailand
	Stock:	1. Western Central Pacific yellowfin tuna 2. Eastern Pacific yellowfin tuna
Date	05 February 2021	
Report Code	244-2020	
Assessor	Sam Dignan	
Country of origin of the product - PASS	Thailand	
Country of origin of the product - FAIL	nil	

Application details and summary of the assessment outcome			
Name:			
Address:			
Country:		Zip:	
Tel. No.:		Fax. No.:	
Email address:		Applicant Code:	
Key Contact:		Title:	
Certification Body Details			
Name of Certification Body:		Global Trust Certification Ltd.	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/Re-approval
Sam Dignan	Virginia Polonio	0.5	Re-approval
Assessment Period	To February 2021		

Scope Details	
Main Species	Yellowfin tuna (<i>Thunnus albacares</i>)
Stock	1. Western Central Pacific yellowfin tuna 2. Eastern Pacific yellowfin tuna
Fishery Location	FAO 77 (Pacific, Eastern Central) and 87 (Pacific, Southeast)
Management Authority (Country/State)	The Western and Central Pacific Fisheries Commission (WCPFC) and the Inter-American Tropical Tuna Commission (IATTC).
Gear Type(s)	Longlines and purse seines
Outcome of Assessment	
Peer Review Evaluation	Agree with assessor's determination
Recommendation	APPROVED

TABLE 2. ASSESSMENT DETERMINATION

Assessment Determination
<p>If a 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 IFFO RS raw material.</p> <p>Yellowfin tuna (<i>Thunnus albacares</i>) is listed on the IUCN Red List as globally Near Threatened (NT) and is not listed in CITES such that yellowfin derived products are eligible for approval for use as IFFO RS by-product raw material.</p> <p>For assessment and management purposes, two discrete stocks of yellowfin are recognised in the Pacific Ocean delimited based on their being east and west of 150°W longitude:</p> <ol style="list-style-type: none"> 1. Western Central Pacific Ocean (WCPO) yellowfin (west of 150°W), managed via the Western and Central Pacific Fisheries Commission (WCPFC). 2. Eastern Pacific Ocean (EPO) yellowfin (east of 150°W), managed by the Inter-American Tropical Tuna Commission (IATTC). <p>FAO areas 77 and 87 have their western boundary at 175°W such that yellowfin tuna taken in these areas may come from either of the Western Central Pacific or Eastern Pacific stocks; therefore, both stocks are considered in this assessment.</p> <p>Fishery removals of both Pacific yellowfin tuna stocks are considered in their respective stock assessment processes such that the fishery PASSES Clause C1.1.</p> <p>As of the latest assessments, both stocks are considered to have a biomass above their respective limit reference points such that the fishery PASSES Clause C1.2.</p> <p>As both Clause C1.1 and C1.2 are met, the by-product covered by this report is APPROVED for the production of fishmeal and fish oil under the current IFFO RS v 2.0 by-product standard.</p>
Peer Review Comments
<p>In the last stock assessment both stocks are considered to have a biomass above their respective limit reference points. The WCPFC shows its stock status is evaluated by estimating $SB_{recent}/SB_{F=0}$ and $SB_{latest}/SB_{F=0}$, where SB_{latest} and SB_{recent} are the estimated spawning potential in 2015 and the mean over 2011-2014, respectively. The EPO yellowfin tuna stock is not overfished but is subject to overfishing. Therefore, the by-product covered by this report is APPROVED under the current IFFO RS v 2.0 by-product standard.</p>
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 Redlist Category

Byproduct 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.

Byproduct 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
Yellowfin tuna	<i>Thunnus albacares</i>	1. Western Central Pacific yellowfin tuna 2. Eastern Pacific yellowfin tuna	WCPFC and IATTC	C	Globally: Near Threatened (NT)	No

¹ <https://www.iucnredlist.org/>

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

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 may be assessed as a Category D species instead, EXCEPT if there is evidence that it is currently below the limit reference point.

Species Name		Yellowfin tuna (<i>Thunnus albacares</i>) (Western Central Pacific and Eastern Pacific stocks)
C1	Category C Stock Status - Minimum Requirements	
	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. PASS
	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. PASS
		Clause outcome: PASS
<p>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.</p> <p>Western Central Pacific yellowfin tuna Fishery removals of the species in the fishery under assessment are included in the stock assessment process via Western and Central Pacific Fisheries Commission (WCPFC) processes</p> <p>Eastern Pacific yellowfin tuna Catches of tunas within the IATTC area of competence are reported to the IATTC (e.g. IATTC, 2020) and these catches are subsequently included in the IATTC stock assessment process.</p> <p>Therefore, fishery removals of both stocks of relevance to this assessment are included in their respective stock assessment processes such that the fishery achieves a PASS against C1.1.</p> <p>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.</p> <p>Western Central Pacific yellowfin tuna The most recent stock assessment for WCPO yellowfin was carried out in 2017 (Tremblay-Boyer et al. 2017a). The WCPFC has adopted 20% of the unfished spawning potential ($20\%SB_{F=0}$) as a LRP for this stock; therefore, despite it being quite high at $\sim 77\%$ of the median estimate of B_{MSY}, this is the considered here. Stock status is evaluated by estimating $SB_{recent}/SB_{F=0}$ and $SB_{latest}/SB_{F=0}$, where SB_{latest} and SB_{recent} are the estimated spawning potential in 2015 and the mean over 2011-2014, respectively.</p> <p>Majuro plots presented in Tremblay-Boyer et al. (2017a), show that there are only two scenarios for 'latest' and three for 'recent' which fall below the defined LRP; therefore, the stock is considered, in its most recent stock assessment, to be above the limit reference point defined by management.</p> <p>Eastern Pacific yellowfin tuna The most recent stock assessment for EPO yellowfin was carried out in 2019 (Minte-Vera, Xu and Maunder, 2019) with a terminal year of 2018. S_{MSY} and F_{MSY} are used as target reference points in the management of this stock and interim limit reference points of $0.28*S_{MSY}$ and $2.42*F_{MSY}$ are defined; these correspond to a 50% reduction in recruitment from its average unexploited level based on a conservative steepness value ($h = 0.75$) for the Beverton-Holt stock recruitment relationship. According to the 2018 stock assessment conducted by the IATTC scientific staff (Minte-Vera, Xu and Maunder, 2019), the EPO yellowfin tuna stock is not overfished but is subject to overfishing; therefore, the stock is considered, in its most recent stock assessment, to be above the limit reference point defined by management.</p>		

As both stocks of relevance to this assessment are considered, in their most recent stock assessments, to have biomasses above their limit reference points (or proxies), **the fishery achieves a PASS against C1.2.**

References

Tremblay-Boyer, S., McKechnie, S., Pilling, G., Hampton, J., 2017a. Stock assessment of yellowfin tuna in the Western and Central Pacific Ocean. WCPFC-SC13-2017/SA-WP-06.

IATTC (2020). Estimated Catch (in mt) by Purse Seine and Pole-and-Line vessels in the Eastern Pacific Ocean (east of 150°W 01 Jan - 03 May 2020:

<http://www.iattc.org/MonthlyReports/2020/English/Apr-2020Current%20monthly%20report.pdf>

Minte-Vera, Xu and Maunder (2019) Inter-American Tropical Tuna Commission Stock Assessment Report 20 Status of the Tuna and Billfish Stocks in 2018:

http://www.iattc.org/PDFFiles/StockAssessmentReports/_English/No-20-2019Status%20of%20the%20tuna%20and%20billfish%20stocks%20in%202018.pdf

Links

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

SOCIAL CRITERION

In addition to the scored criteria listed above, applicants must commit to ensuring that vessels operating in the fishery adhere to internationally recognised guidance on human rights. They must also commit to ensuring there is no use of enforced or unpaid labour in the fleet(s) operating upon the resource.

Appendix B: From MARINTRUST Standard V2.0 Annex 2: Fish By-product Assessment Methodology

Definition of a Fish By-product

A by-product is a useful and marketable product that is not the primary product being produced. A marketable by-product is from a process that can technically not be avoided. This includes materials that may be traditionally defined as waste such as industrial scrap that is subsequently used as a raw material in a different manufacturing process.

"Fish By-products" refers to commodities that are manufactured from fish, including shellfish, and crustaceans in a form that is different than conventional foods and which are intended for human consumption (either directly or as a food ingredient). Fish By-products include, but are not limited to:

- By-products derived from fish, including fish cartilage, fish oils, and fish proteins; and
- By-products derived from the carapaces of crustaceans; but do not include marine plants or marine plant products.

(Canadian Food Inspection Agency Definition)

In addition, a whole fish which is rejected on an intrinsic quality ground e.g. does not meet the specification for human consumption due to physical damage or the quality is substandard. These whole fish shall in these cases be classified as a by-product from the human consumption fishery, and can be used for marine ingredients production.

A whole catch of fish that is rejected by a fish processing factory on economic grounds is not considered to be a fish by-product. This fish can only be used for marine ingredients production if the fishery has been assessed and approved under the requirements of the IFFO Responsible Sourcing Standard.

Why utilise Fish By-products?

FAO Code of Conduct for Responsible Fisheries

General Principles Article 6

6.7 The harvesting, handling, processing and distribution of fish and fishery products should be carried out in a manner which will maintain the nutritional value, quality and safety of the products, reduce waste and minimize negative impacts on the environment.

Responsible fish utilisation Article 11.1

11.1.8 States should encourage those involved in fish processing, distribution and marketing to reduce post-harvest losses and waste.

Benefits of Including Fish By-Products in the MARINTRUST Standard:

1. Improved fish resource utilisation
2. Reduction in waste for nutritional value
3. 35% of fish by-products are currently used to make quality fishmeal and oil
4. Excellent Economic return
5. Better compliance with FAO Code of Conduct for Responsible Fisheries

What Fish By-products cannot be used?

1. IUCN

Fishery By-products shall Not be taken from a species listed by IUCN (the International Union for Conservation of Nature) under the Red List for certain categories;

- 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.

Fish By-product material may be used from the vulnerable category, but it shall incur a fishery surveillance conducted by the certification body prior to it being included in the scope of this standard.

- VULNERABLE (VU) facing a high risk of extinction in the wild.

The Fish By-product material from these species will be acceptable for use in the scope of this standard;

- 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.

Fish By-product material may be used from the following category, but it shall incur a fishery surveillance prior to it being included in the scope of this standard;

- DATA DEFICIENT (DD) and NOT EVALUATED (NE)

The fishery surveillance conducted by the certification body will review the following areas:

Stock Assessment

- From a recognised Institution
- Fisheries are recognised as legal
- Fisheries do not contradict scientific opinion

2. FAO Code of Conduct for Responsible Fisheries

In addition the Fish By-products shall not come from fisheries that do not comply with the following criteria;

1. Fisheries should prohibit dynamiting, poisoning and other comparable destructive fishing practices.
2. Fishery material shall not be from IUU fishing activity nor sourced from vessels officially listed as engaging in illegal, unreported and unregulated (IUU) fishing activity.

Sources of Information

1. Food Standards Agency
2. Canadian Food Inspection Agency
3. DEFRA
4. GAA Feed mill BAP standard
5. EU Commission
6. IUCN