

MarinTrust Standard V2

By-product Fishery Assessment THA59 Pink salmon (*Oncorhynchus gorbusha*) in FAO 67 (Pacific Northeast)

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Table 1 Application details and summary of the assessment outcome

	Species:	Pink salmon (Oncorhynchus gorbusha)	
	Geographical area:	FAO 67	
Fishery Under Assessment	Country of origin of the product:	Thailand	
	Stock:	Northeast Pacific pink salmon	
Date	August 2024		
Report Code	THA59		
Assessor	Sam Peacock		
Country of origin of the product - PASS	Thailand		
Country of origin of the product - FAIL	None		

Application details and	summary of the asses	sment outcome				
Company Name(s): TC Union Agrotech Co. Ltd						
Country: Thailand						
Email address: Applicant Code:						
Certification Body Deta	ails					
Name of Certification Body:		NSF / Global Trust Certification Ltd.				
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/Re-approval			
Sam Peacock	Léa Lebechnech 0.2 Surveillance 1					
Assessment Period	August 2024 – August 2025					

Scope Details	
Main Species	Pink salmon (Oncorhynchus gorbusha)
Stock	Northeast Pacific pink salmon
Fishery Location	FAO 67
Management Authority (Country/ State)	NOAA
Gear Type(s)	Purse seine, drift gillnet, troll, set gillnet, beach seine, fish wheel, dip net
Outcome of Assessment	
Peer Review Evaluation	Agree with assessor's determination
Recommendation	APPROVED

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Table 2. Assessment Determination

Assessment Determination

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 Marin trust raw material. Pink salmon (*Oncorhynchus gorbusha*) does not appear as Endangered or Critically Endangered on IUCN's Red List, and does not appear in CITES appendices; therefore, *Oncorhynchus gorbusha* is eligible for approval for use as Marin trust by-product raw material.

The large majority of pink salmon caught in the Northeast Atlantic originates from Alaskan waters. US fisheries are managed by NOAA Fisheries. Rather than biomass reference points, pink salmon is managed using escapement goals¹; there are roughly 300 salmon escapement goals in place in Alaska alone. Although this means that, strictly speaking, the large majority of pink salmon catch originates in fisheries which do have species-specific management measures in place, it is beyond the scope of this report to consider each of the many hundreds of "stocks". As a pragmatic alternative, the byproduct was assessed using Category D.

Pink salmon was awarded an average Productivity score of 1.71 and an average Susceptibility score of 3, leading to a Pass rating against Table D3.

Therefore, pink salmon (*Oncorhynchus gorbusha*) in FAO 67 is **APPROVED** for the production of fishmeal and fish oil under the current MarinTrust v2.3 by-products.

Fishery Assessment Peer Review Comments

The assessor correctly assessed pink salmon (*Oncorhynchus gorbusha*) in FAO 67 under category D, as it appears to be the most pragmatic alternative regarding the fact there are many hundreds of "stocks" and species-specific management measures in place.

The peer reviewer agree with the fact that longtail tuna was awarded an average Productivity score of 1.71 and an average Susceptibility rating of 3, which lead to a PASS rating on Table D3.

Therefore, pink salmon in FAO 67 is **APPROVED** for the production of fishmeal and fish oil under the current MarinTrust V2.3 by-products standards.

Notes for On-site Auditor

¹ <u>https://www.fisheries.noaa.gov/species/pink-salmon/science</u>

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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
Pink salmon	Oncorhynchus gorbusha	Northeast Pacific pink salmon	See Assessment Determination	D	Not assessed	No

² <u>https://www.iucnredlist.org/</u>

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

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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.

Species Name Productivity Attribute	Pink salmon (Oncorhynchus go	orbusha)
Productivity Attribute	Value	Score
Average age at maturity (years)	2 years	1
Average maximum age (years)	8.8 years	1
Fecundity (eggs/spawning)	1060 ¹	2
Average maximum size (cm)	76cm	1
Average size at maturity (cm)	42cm	2
Reproductive strategy	Demersal egg layer	2
Mean trophic level	4.5	3
	Average Productivity Score	1.71
Susceptibility Attribute	Value	Score
Availability (area overlap)	>30%	3
Encounterability (the position of the stock/sp within the water column relative to the fishin	Largeted	3
Selectivity of gear type	Retained	3
Post-capture mortality	Retained	3
	Average Susceptibility Score	3
	PSA Risk Rating (From Table D3)	PASS
	Compliance rating	PASS
Further justification for susceptibility scoring For susceptibility attributes, please provide a uncertainty affecting your decision	brief rationale for scoring of parameters when	e there may b

Pink salmon, computer generated map of global distribution. From fishbase: https://www.fishbase.us/summary/SpeciesSummary.php?ID=240

References

(1): Kwain, Wen-hwa (1982). Spawning Behavior and Early Life History of Pink Salmon (*Oncorhynchus gorbuscha*) in the Great Lakes. <u>https://cdnsciencepub.com/doi/abs/10.1139/f82-182</u>

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All other data from Fishbase, pink salmon: <u>https://www.fishbase.us/summary/SpeciesSummary.php?ID=240</u> Standard clauses 1.3.2.2



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	<10% overlap		10	10-30% overlap		>30% 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	Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements					
	D4.1		of the fishery on this species are considered during the management le measures are taken to minimise these impacts.				
	D4.2	There is no substantia species.	I evidence that the fishery has a significant negative impact on the				
			Outcome:				
		ential impacts of the fi easures are taken to min	shery on this species are considered during the management process imise these impacts.	, and			
		o substantial evidence t	that the fishery has a significant negative impact on the species.				
D4.2 T Refere		o substantial evidence t	that the fishery has a significant negative impact on the species.				
		o substantial evidence t	that the fishery has a significant negative impact on the species.				
Refere Links	ences	no substantial evidence t	that the fishery has a significant negative impact on the species.				
Refere Links	ences Trust Sta						