

IFFO RS Global Standard for Responsible Supply of Marine Ingredients

IFFO RS Limited

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Global Standard for Responsible Supply of Marine Ingredients Fishery Assessment Methodology and Template Report V2.0



IFFO RS Global Standard for Responsible Supply of Marine Ingredients



Fishery Under Assessment	Japanese scad (<i>Decapterus Maruadsi</i>) Gulf of Thailand FAO areas 57, 71
Date	November 2019
Assessor	Jim Daly

Application details and summary of the assessment outcome					
Name: TC Union Agr	otech				
Address:					
Country: Thailand		Zip:			
Tel. No.:	Fax. No.:				
Email address: Applicant Code					
Key Contact:		Title:			
Certification Body De	Certification Body Details				
Name of Certification	Name of Certification Body: SAI Global				
Assessor Name	me Peer Reviewer Assessment Days Initial/Surveillance/Re- Whole fish/ product				
Jim Daly	Conor Donnelly 0.5 Re-approval By-product				
Assessment Period 2019					

Scope Details	
Management Authority (Country/State)	Thailand Department of Fisheries
Main Species	Japanese scad (Decapterus Maruadsi)
Fishery Location	Gulf of Thailand FAO 57 71
Gear Type(s)	Mixed pelagic

Outcome of Assessment					
Overall Outcomes:	Outcome	Clause(s) failed			
Japanese scad (<i>Decapterus</i> <i>Maruadsi</i>) Gulf of Thailand FAO 57 71	PASS NONE				
Peer Review Evaluation	AGREE				
Recommendations	APPROVE Japanese scad (<i>Decapterus Maruadsi</i>) Gulf of Thailand FAO 57 71				

Assessment Determination

If any species is categorised as Endangered or Critically Endangered on the IUCN Red List, or if it appears in the CITES appendices, it cannot be approved for use as IFFO-RS raw material. Japanese scad (*Decapterus Maruadsi*) does not appear as Endangered or Critically Endangered on the IUCN Red List, nor does it appear in CITES appendices; therefore, the species is eligible for approval for use as IFFO-RS raw material

The stock structure is not clear; stock assessments have not been carried out since 2010. The comparative lack of scientific information on the status of the population in the assessment area means that a risk-assessment style approach must be taken. The fishery was assessed using the risk-based Productivity, Susceptibility Analysis (PSA) as per IFFO-RS v 2.0 procedures for Category D species. The species has passed this risk-based assessment (Table D3)

The SAI Global assessment team recommends the approval of this by-product material against the IFFO RS standard v 2.0 for the production of fishmeal and fish oil.

Peer Review Comments

Notes for On-site Auditor

Species-Specific Results

Category	Species	% landings	Outcome (Pass/Fail)	
			A1	
Cotocomy			A2	
Category A			A3	
			A4	
Category B				
Category C				
Category D	Japanese scad (Decapterus Maruadsi)	N/A	PASS	

[List all Category A and B species. List approximate total % age of landings which are Category C and D species; these do not need to be individually named here]

HOW TO COMPLETE THIS ASSESSMENT REPORT

This assessment template uses a modular approach to assessing fisheries against the IFFO RS standard.

Whole Fish

The process for completing the template for a **whole fish** assessment is as follows:

- 1. ALL ASSESSMENTS: Complete the Species Characterisation table, to determine which categories of species are present in the fishery.
- 2. ALL ASSESSMENTS: Complete clauses M1, M2, M3: Management.
- 3. IF THERE ARE CATEGORY A SPECIES IN THE FISHERY: Complete clauses A1, A2, A3, A4 for each Category A species.
- 4. IF THERE ARE CATEGORY B SPECIES IN THE FISHERY: Complete the Section B risk assessment for **each** Category B species.
- 5. IF THERE ARE CATEGORY C SPECIES IN THE FISHERY: Complete clause C1 for **each** Category C species.
- 6. IF THERE ARE CATEGORY D SPECIES IN THE FISHERY: Complete Section D.
- 7. ALL ASSESSMENTS: Complete clauses F1, F2, F3: Further Impacts.

A fishery must score a pass in **all applicable clauses** before approval may be recommended. To achieve a pass in a clause, the fishery/species must meet **all** of the minimum requirements.

By-products

The process for completing the template for **by-product raw material** is as follows:

- 1. ALL ASSESSMENTS: Complete the Species Characterisation table with the names of the by-product species and stocks under assessment. The '% landings' column can be left empty; all by-products are considered as Category C and D.
- 2. IF THERE ARE CATEGORY C BYPRODUCTS UNDER ASSESSMENT: Complete clause C1 for **each** Category C by-product.
- 3. IF THERE ARE CATEGORY D BYPRODUCTS UNDER ASSESSMENT: Complete Section D.
- 4. ALL OTHER SECTIONS CAN BE DELETED. Clauses M1 M3, F1 F3, and Sections A and B do not need to be completed for a by-product assessment.

By-product approval is awarded on a species-by-species basis. Each by-product species scoring a pass under the appropriate section may be approved against the IFFO RS Standard.

CATEGORY D SPECIES

In a whole fish assessment, Category D species are those which make up less than 5% of landings and 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. In a by-product assessment, Category D species are those which are not subject to a species-specific management regime. In both cases, 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.

The process for assessing Category D species involves the use of a Productivity-Susceptibility Analysis (PSA) to further subdivide the species into 'Critical Risk', 'Major Risk' and 'Minor Risk' groups. If there are no Category D species in the fishery under assessment, this section can be deleted.

Productivity and susceptibility ratings are calculated using a process derived from the APFIC document "Regional Guidelines for the Management of Tropical Trawl Fisheries, which in turn was derived from papers by Patrick *et al* (2009) and Hobday *et al* (2007). Table D1 should be completed for each Category D species as follows:

- Firstly, the best available information should be used to fill in values for each productivity and susceptibility attribute.
- Table D2 should be used to convert each attribute value into a score between 1 and 3.
- The average score for productivity attributes and the average for susceptibility attributes should be calculated.
- Table D3 should be used to determine whether the species is required to meet the requirements of Table D4. A species which does not need to meet the requirements of D4 is automatically awarded a pass.
- Table D4 should be used to assess those species indicated by Table D3 to determine a pass/fail rating.
- Any Category D species which has been categorised by the IUCN Red List as Endangered or Critically Endangered, or which appears in the CITES appendices, automatically results in a fail.

D1	Species Name:	Japanese scad (Decapterus Maruadsi)			
	Productivity Attribute		Value	Score	
	Average age at maturity (yea	ars)	0.8	1	
	Average maximum age (years)		1.8	1	
	Fecundity (eggs/spawning)		Not known	-	
	Average maximum size (cm)	26.5cm	1	
	Average size at maturity (cm	1)	15.8	1	
	Reproductive strategy		Broadcast spawner	1	
	Mean trophic level		3.4	3	
			Average Productivity Score	1.33	
	Susceptibility Attribute		Value	Score	
	Overlap of adult species range with fishery		<25 % of stock	1	
	Distribution		Not used	1	
	Habitat		Not used	-	
	Depth range		0-20	2	
	Selectivity		1-2 times mesh size	3	
	Post-capture mortality		Most dead or retained	3	
		Average Susceptibility Score		2	
		PS.	A Risk Rating (From Table D3)	PASS	



References:

R1 FAO Country Profile Thailand: <u>http://www.fao.org/fishery/facp/THA/en</u>

R2 Fishsource Japanese Scad: <u>https://www.fishsource.org/stock_page/1085</u>

R3 IUCN Redlist: https://www.iucnredlist.org/search?query=japanese scad&searchType=species

R4 Fishbase Japanese scad (*Decapterus Maruadsi*): <u>http://www.fishbase.org/summary/Decapterus-</u> <u>maruadsi.html</u> (accessed 13.11.19)

R5 Gulf of Thailand: <u>https://www.bing.com/search?q=gulf+of+thailand+map&src=IE-</u>

SearchBox&FORM=IESR4A&setmkt=de-de&setlang=de-

de&sid=126F8282E01F6613273D8C91E1F36780

Standard clauses 1.3.2.2

Productivity attributes	Low productivity/ High risk	Medium productivity/ Medium risk	High productivity/ Low risk Score 1	
	Score 3	Score 2		
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	

Table D2 - Productivity / Susceptibility attributes and scores.

Susceptibility attributes		High susceptibility/ High risk	Medium susceptibility/ Medium risk	Low susceptibility/ Low risk Score 1	
		Score 3	Score 2		
Availability	 Overlap of adult species range with fishery Distribution 		>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
			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 or<br="" size="">>5 m length</mesh>
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.

D2		Average Susceptibility Score			
DS		1.00 - 1.75	1.76 - 2.24	2.25 - 3.00	
Average Productivity	1.00 - 1.75	PASS	PASS	PASS	
Score	1.76 – 2.24	PASS	PASS	TABLE D4	
	2.25 - 3.00	PASS	TABLE D4	TABLE D4	