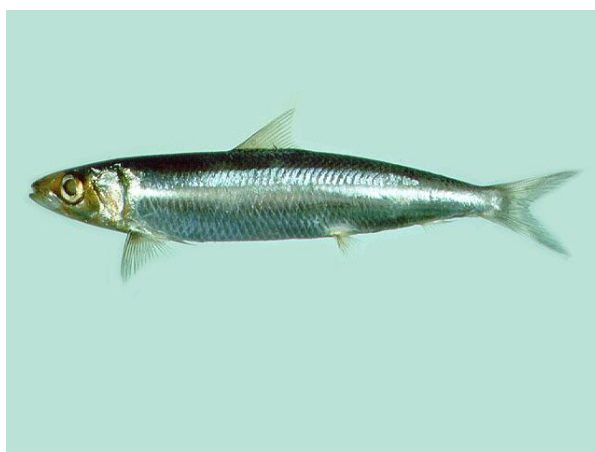


FISHERY BY-PRODUCT REPORT

IFFO GLOBAL STANDARD FOR RESPONSIBLE SUPPLY OF FISHMEAL AND FISH OIL



R1

FISHERY By-Product:	Sardine (<i>Etrumeus sadina</i> synonym <i>Etrumeus teres</i>)
LOCATION:	FAO 87
DATE OF REPORT:	October 2016
ASSESSOR:	Deirdre Hoare

Global Trust Certification Ltd, 3rd Floor, Block 3, Quayside Business Park, Mill Street, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864

Form No: 9a	Report Ref:	Page 1 of 5	CCM Code:
-------------	-------------	-------------	-----------

This report shall not be reproduced in full or in part without the permission of Global Trust Certification Ltd.

1. APPLICATION DETAILS AND SUMMARY OF THE ASSESSMENT OUTCOME		
Name:		
Address:		
Country: Ecuador	Zip:	
Tel. No.	Fax. No.	
Email address:	Applicant Code	
Key Contact:	Title:	
Certification Body Details		
Name of Certification Body:	SAI Global (Ireland)	
Assessor Name	Peer Reviewer	Initial/Surveillance/ Re-certification
Deirdre Hoare	Virginia Polonio	Initial
Assessment Details		
1. Scope of Assessment	By-Product Initial year 2015-2016	
2. Fishery By-Product	Sardine (<i>Etrumeus sadina</i>)	
3. Fishery By-Product Location	FAO 87	
4. Fishery Method	Purse seine	
5. Outcome of Assessment	Approve byproduct	

2. GUIDANCE FOR ONSITE ASSESSMENT

3. ASSESSMENT DETERMINATION

Ecuador has a fully developed administrative framework for fisheries management. As Sardine is managed only as a component of the small pelagic stock, the assessment team considers a medium compliance rating appropriate.

4. RATIONALE OF THE ASSESSMENT OUTCOME

A. THE MANAGEMENT FRAMEWORK AND PROCEDURE

LEVEL OF COMPLIANCE	
<i>The management of the fishery used to produce the By- Product must include a legal and administrative basis for the implementation of measures and controls to support the management of the fishery.</i>	
LOW	An administrative framework that ensures an efficient management of the fishery is not established.
MEDIUM	An administrative framework that ensures an efficient management of the fishery is somehow established, but there is evidence of not being efficient to ensure the management of the stock.
HIGH	A legal and administrative framework that ensures an efficient management of the fishery is established and works efficiently.

Determination: An administrative framework that ensures an efficient management of the fishery is somehow established, but there is evidence of not being efficient to ensure the management of the stock.

Fishery management framework:

The government body with responsibility for fisheries management in Ecuador is The National Fisheries Institute (Instituto Nacional de Pesca de Ecuador INP). The primary legal instrument is the Fisheries and Fisheries Development Law (Ley de pesca y desarrollo pesquero 1974) which has been revised in 1985 (Law reforming the Fisheries and Fisheries Development Law, *Ley Reformatoria de la Ley de Pesca y Desarrollo Pesquero*), in order to include aquaculture among the activities it regulates. The law covers capture, aquaculture, processing and trade.

The National Council for Fisheries Development (*Consejo Nacional de Desarrollo Pesquero*), which is a government body attached to the Ministry of Foreign Commerce, Industrialization, Fisheries and Competitiveness (*Ministerio de Comercio Exterior, Industrialización, Pesca y Competitividad*), is responsible for the development of the national fisheries policy, the approval of the fisheries development plans and programmes, and the yearly assessment of the results in order to allow authorities to make necessary changes. The council also determines which aquatic species can be exploited according to the technical reports of the National Institute for Fisheries (*Instituto Nacional de Pesca*), and issues the reports required by the Law and its Regulations.

The Ministry of Foreign Commerce, Industrialization, Fisheries and Competitiveness is in charge of the supervision and implementation of the national fisheries policy, via the Under Secretariat for Fishery Resources (*Subsecretaría de Recursos Pesqueros*). The Under Secretariat for Fishery Resources fulfils the following functions: it ensures compliance with the laws and regulations concerning fisheries; drafts the fisheries development plans and programmes and submits them to the National Council for Fisheries Development for approval; supervises the activities to be performed by the fisheries public sector and coordinates its relations with the private sector; manages the fisheries financial credit and supervises its use; and approves the reports and plans submitted by the companies working in the fisheries sector. Lastly, the Directorate General for Fisheries (*Dirección General de Pesca*) is the specialized body of the Ministry responsible for the control and supervision of fisheries, hunting and harvesting of aquatic resources, the implementation of the fisheries programmes adopted by the Government, and the control of the industry and the trade of fish products.

Species-specific management:

Management measures include registration of vessels, mandatory reporting of catches, closed areas, a 40% limit on landings destined for reduction purposes, vessels required to have refrigeration technology, observer program.

Table 1. Monthly landings in tonnes reported for the pelagic fleet 2015. Sardina redonda = Sardine. R4

2015	PRINCIPALES ESPECIES				ESPECIES SECUNDARIAS					TOTAL (t)
	S	M	SR	CH	P	ANCH	B	J	OTROS	
Enero	0,0	4326.9	4907.0	0,0	2850,1	0,0	15911,8	0,0	878,2	28874,0
Febrero	0,0	3689.3	1211.1	0,0	1785,1	0,0	11835,5	0,0	7495,3	26016,2
Marzo										0,0
Abril	0,0	10946.9	1728.0	0,0	5906,2	0,0	10300,0	102,3	3456,1	32439,5
Mayo	0,0	12727.0	348.0	0,0	2304,8	0,0	5019,9	7,3	1955,0	22361,9
Junio	0,0	6694.8	1125.8	0,0	2705,6	0,0	777,8	156,5	6829,9	18290,5
Julio	0,0	12891.8	695.0	23186,6	360,5	0,0	2033,7	22,6	6793,3	45983,5
Agosto	0,0	14244.0	1718.5	2560,1	3329,0	0,0	3855,9	0,0	6788,0	32495,4
Septiembre										0,0
Octubre	0,0	20032.7	263.9	173,9	1556,2	0,0	7439,2	0,0	5195,3	34661,1
Noviembre	0,0	9033.2	267.3	529,2	6013,9	0,0	6265,6	0,0	5421,6	27530,8
Diciembre	0,0	5043.2	100.6	353,2	6088,6	0,0	1093,6	0,0	3688,1	16367,3
TOTAL	0.0	99629.8	12365.1	26803,0	32900,0	0,0	64532,8	288,7	48500,8	285020,1
%	0.0	35.0	4.3	9,4	11,5	0,0	22,6	0,1	17,0	100,0

S = Sardina del sur SR = Sardina redonda P = Pinchagua B = Botellita ANCH = Anchoveta M= Macarela
 CH = Chuhueco Otros = Otras Especies

R2-4

B. STOCK ASSESSMENT PROCEDURES AND MANAGEMENT ADVICE

LEVEL OF COMPLIANCE

B. Research in support of fisheries management should exist.

LOW	Research to support the management of the stock does not exist
MEDIUM	Research to support the management of the stock exists, however research programmes could be significantly improved to decrease scientific advice uncertainty.
HIGH	Research to support the management of the stock exists, and research programmes for provision of scientific advice are considered adequate.

Determination: Research to support the management of the stock exists, and research programmes for provision of scientific advice are considered adequate.

Scientific research and advice in support of the management of Ecuadorian fisheries is provided by the National Fisheries Institute (INP). The mission of the INP is ‘Providing services and advice to the fisheries-aquaculture sector through research and scientific-technical assessment of aquatic resources and ecosystems for sustainable management and for quality assurance and safety of fishery and aquaculture products in all phases of production’. This includes the development of stock-specific management plans and the planning and conducting of research in support of these functions.

INP carried out monthly monitoring of the fleet ‘Programa de Peces Pelágicos Pequeños’ (Small pelagic fish programme) and produce technical reports that can be found on their website. Acoustic surveys are also carried out by the research vessel to estimate biomass and distribution.

R2-5

C. STOCK STATUS

Global Trust Certification Ltd, 3rd Floor, Block 3, Quayside Business Park, Mill Street, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864

Form No: 9a	Report Ref:	Page 4 of 5	CCM Code:
-------------	-------------	-------------	-----------

This report shall not be reproduced in full or in part without the permission of Global Trust Certification Ltd.

LEVEL OF COMPLIANCE	
<i>C. The fish used to produce the fish By- Product is not considered to be critically at risk of over exploitation in accordance with the IUCN guidance.</i>	
LOW	The fish By-Product must not come from a species that is listed as extinct, or critically endangered.
MEDIUM	The fish By- Product is from a species that is classified as vulnerable, but has a management regime in place that will control the level of fishing permitted. Or if a species is deemed to be endangered but the sub-group from where the fish By- Product is harvested is deemed scientifically to be at no risk of over exploitation.
HIGH	The fish By- Product comes from a fishery that is not deemed to be at risk of over exploitation from fishing activities.
<p><i>Determination: The fish By- Product comes from a fishery that is not deemed to be at risk of over exploitation from fishing activities.</i></p> <p><i>Etrumeus sadina</i> has been assessed by the IUCN and has been found to be of Least Concern.</p> <p>R5</p>	

5. REFERENCES

R1 -Image of *Etrumeus sadina* by Shao, Kwang-Tsao

<http://www.fishbase.se/photos/PicturesSummary.php?ID=1455&what=species>

R2- FAO fisheries and aquaculture country page, Ecuador:

http://www.fao.org/fishery/legalframework/nalo_ecuador/en

R3- Ministerio de Agricultura, Ganadería, Acuacultura y Pesca <http://www.institutopesca.gob.ec/valores-mision-vision/>

R4 – Small pelagic landings 2014-2015 <http://www.institutopesca.gob.ec/wp-content/uploads/2014/05/Desembarques-PPP-2014-2015.pdf>

R5 – IUCN Redlist. Munroe, T., Aiken, K.A., Brown, J. & Grijalba Bendeck, L. 2015. *Etrumeus sadina*. The IUCN Red List of Threatened Species 2015: e.T82626288A15603445. <http://dx.doi.org/10.2305/IUCN.UK.2015-4.RLTS.T82626288A15603445.en>. Downloaded on **26 October 2016**.

Global Trust Certification Ltd, 3rd Floor, Block 3, Quayside Business Park, Mill Street, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864			
Form No: 9a	Report Ref:	Page 5 of 5	CCM Code:

This report shall not be reproduced in full or in part without the permission of Global Trust Certification Ltd.