

MarinTrust Standard V2

By-product Fishery Assessment Interpretation and Guidance Document

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Vision

All Marine Ingredients produced globally will be sourced from responsibly sourced fisheries products and produced in a safe manner.

Mission

To enable Marine Ingredient producers to demonstrate to all stakeholders their commitment to responsible practices in the areas of raw material procurement and food/feed safety.

Introduction

The MarinTrust Global Standard and Certification Programme for the Responsible Supply of Fishmeal and Fish Oil (MarinTrust) was developed with international consultation with stakeholders and meets global best practice guidelines for certification and ecolabelling programs.

The MarinTrust Global Standard for responsible supply has the following core objectives:

- To ensure no Illegal, Unreported and Unregulated fishery raw materials are used.
- To ensure pure and safe products are produced under a recognised Quality Management System, thereby demonstrating freedom from potentially unsafe and illegal materials.
- To ensure full traceability throughout production and the supply chain.

Guidance

Source fisheries for by-products are assessed against version 2 of the MarinTrust standard using Sections C and /or D of the modular assessment template, which awards a pass or fail rating under these sections.

The purpose of this document is to provide guidance to the CBs to help interpret the fisheries standard and how to complete the fisheries assessment template.

- 1. Clarify the requirements of each assessment section.
- 2. Recommend determinations based on possible fishery circumstances.
- 3. Improve consistency by listing previous key assessment decisions.

It is important to note that the guidance contained within this document is not binding; final interpretation of the adequacy of a fishery at meeting each clause of the standard, and the approval decision for the by-product, rests with the certification body and their fishery assessment team.

Fishery management has as many variations in approach as there are fisheries, and so this document is not intended to cover all eventualities but rather provide advice for fishery assessors under commonly encountered scenarios. It is intended to remain under development and will be updated as additional fisheries are assessed, and additional scenarios encountered.

Note that the format of this document should not be used as a template for conducting fishery assessments; assessors should use the fishery assessment template prepared by MarinTrust for this purpose.

Structure and layout of this document

This document is formatted to match the structure of the MarinTrust fishery assessment template. The first half contains information on how to complete the pre-amble, including the application details, quality of information, assessment determination, guidance for on-site assessment, and result summary sections. Many of these are self-explanatory and so guidance is minimal.



The main body of the interpretation document provides guidance advice on a section-by-section basis. Each section is broken into three components:

- **1.** An explanation of how to complete the section.
- 2. Requirements for a 'pass' rating / general guidance.
- 3. Recommended information sources, references

General Fishery Assessment guidance

The Certification Body assessment team will provide in the evidence section enough information to justify the pass or fail rating being awarded for each clause. Information should always be from reliable sources, preferably recognised scientific or governmental organisations or NGOs. References will need to be provided under each clause to show the source of all information used. By-products must achieve a pass rating in sections C or D to achieve approval.

Where there is an information or evidence deficiency, the fishery assessment team will have two options.

- a) Firstly, the client can be approached directly to provide answers or additional evidence.
- **b)** Secondly, in some cases additional information or evidence can be sought by the on-site auditors during the factory assessment.

If there is sufficient information to award the fishery a pass rating under every clause, the fishery should be provisionally approved and ratings updated when the additional information becomes available. Where information deficiency prevents the assessment of a clause, or leads to an implied fail rating, the fishery should not be approved until additional information is made available to the assessment team.

ALL REFERENCES should be documented

Information provided throughout the assessment should be from reliable sources, such as official government websites, internationally recognised scientific organisations, and NGOs. The reference will include the author, the title of the report, the page number and a hyperlink to the internet source (If applicable).



Table 1 Application details and summary of the assessment outcome

By-product Under Assessment	Species:	Common and Scientific name
	Geographical area:	The area where the fishery by-product is caught by operates FAO Fishing Area, country EEZ
	Flag Country:	<i>By-product material may be imported from other countries, list the flag of the vessel that originally fished the by-product</i>
	Stock:	
Date		
Report Code		
Assessor		
Flag Country - PASS	List countries	
Flag Country - FAIL	List countries	

Application details and sur	mmary of the assessment or	utcome	
Company Name(s):			
Country:			
Email address:		Applicant Code:	
Certification Body Details			
Name of Certification Body	:		
		Accoccmont	Initial/Surveillance/
Assessor Peer Reviewer		Days	Re-approval
Assessment Period			

Scope Details	
Main Species	
Stock	
Fishery Location	
Management Authority (Country/	Management authority for the country from which the fleet catching the by-
State)	product is.
Gear Type(s)	
Outcome of Assessment	
Peer Review Evaluation	
Recommendation	

Table 2. Assessment Determination

Assessment Determination

Brief summary of the findings of the assessment. Include a statement on each of;

- fishery management infrastructure,
- catch composition overview,
- stock assessment efforts,
- other research,
- control and enforcement,
- and other impacts of the fishery.

Include additional detail on any areas in which the fishery was awarded a fail rating.

Fishery Assessment Peer Review Comments

Any additional thoughts from the peer reviewer on the accuracy of the assessment decision, the ratings throughout the assessment, and the adequacy of the evidence supporting these.

Notes for On-site Auditor

Under some circumstances, there may be areas of the fishery assessment which need to be confirmed during the on-site audit. These could include:

- Ensure that all landings are monitored and recorded by government officials
- Ensure that bycatch is monitored and catch composition is accurate
- Ensure that vessels details are recorded at landing.

This section is for recording any such concerns or requests for the on-site assessor.



How to complete the Assessment Report

The By-product assessment template uses a modular approach to assessing fisheries against the MarinTrust standard.

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. If the by-product fails C it should be assessed as category D.
- 3. IF THERE ARE CATEGORY D BYPRODUCTS UNDER ASSESSMENT: Complete Section D.

Species Categorisation

<u>NB</u>: 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 material¹. If the IUCN assessment was completed more than 5 years prior to the time of the assessment please refer to the most recent stock assessment, ICES advice², current national legislation or international binding agreements.

Species listed in the binding international agreements given below:

a. Appendix 1 of the Convention on International Trade in Endangered Species (CITES), unless it can be shown that the particular stock of the CITES listed species impacted by the UoA under assessment is not endangered.

b. Binding agreements concluded under the Convention on Migratory Species (CMS), including:

ii. Annex 1 of the Agreement on Conservation of Albatross and Petrels (ACAP);

iii. Table 1 Column A of the African-Eurasian Migratory Waterbird Agreement (AEWA);

iv. Agreement on the Conservation of Small Cetaceans of the Baltic and North Seas (ASCOBANS);

v. Annex 1, Agreement on the Conservation of Cetaceans of the Black Sea, Mediterranean Sea and Contiguous Atlantic Area (ACCOBAMS);

vi. Wadden Sea Seals Agreement; vii. Any other binding agreements that list relevant ETP species concluded under this Convention.

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)

¹ Species listed under CITES Appendix 1 and those listed by IUCN as EN, CE shall be considered ETP species, unless it can be shown that the particular stock of the CITES/IUCN listed species impacted by the fishery under assessment is not endangered, as can be shown by the most recent stock assessment where biomass is above the limit reference point.

² https://www.ices.dk/advice/Pages/Latest-Advice.aspx

Table 3 Species Categorisation Table

Common name	Latin name	Stock	Management	Category	IUCN Red List Category ³	CITES Appendix 1 ⁴
All species should be listed		Stock name, location. Differentiate when there are multiple biological or management stocks of one species captured by the fishery	'Yes' or 'No': depending on whether the species is subjected to a stock-specific management regime, as described above.	Category C or D. Depending on information in previous columns and guidance		
Species categoris	ation references	:				L

³ <u>https://www.iucnredlist.org/</u> ⁴ <u>https://cites.org/eng/app/appendices.php</u>

Table 3 Species Categorisation Table should be completed as fully as the available information permits.

- Category C: By-product species with a species-specific management regime in place.
- Category D: By-product species with no species-specific management regime in place

The 'management' column should be used to indicate whether there is an adequate management regime specifically aimed at the individual species/stock. In some cases it will be immediately clear whether there is a species-specific management regime in place (for example, if there is an annual TAC).

Figure 1. By-product Assessment – Species Categorisation



A by-product is a useful and marketable product that is not the primary product being produced. A marketable byproduct 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.

CATEGORY C STOCK

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		
	Categ	ory C Stock Sta	atus - Minimum Requirements	
CI	C1.1	Fishery remo	ovals of the species in the fishery under assessment are included in the stock assessment	
		process, OR a	are considered by scientific authorities to be negligible.	
	C1.2	The species i	is considered, in its most recent stock assessment, to have a biomass above the limit	
		reference po	int (or proxy), OR removals by the fishery under assessment are considered by scientific	
		authorities to	o be negligible.	
			Clause outcome:	
C1.1 F	dered b	removals of the scientific aut	he species in the fishery under assessment are included in the stock assessment proces thorities to be negligible.	ss, OR are
Stock measu	assessn ures bei	nents rarely spo ng implemente	ecify if fishery removals are negligible. Here the assessor must look for evidence such as ma ed for stock rebuilding and that the management measures are not contradicting scientific	nagement advice.
Examı meası	oles of ures (su	management ı ch as gear moo	measures: reduction in landings and effort, may also include increased landing controls, dification or changes to minimum landing sizes) or spatial or temporal closures.	, technical
C1.2 T proxy	Րhe spe), OR re	cies is conside movals by the	ered, in its most recent stock assessment, to have a biomass above the limit reference e fishery under assessment are considered by scientific authorities to be negligible.	point (or
The st stock Where which enviro	ock sho status is e histor reduce onmenta	uld be assesse above the po ical estimates ed recruitment al factors than	ed in terms of the overall outcome objectives i.e to pass this clause there should be evidence int at which there is an appreciable risk that recruitment is impaired and will be at or above of stock size and resulting recruitment are available, the PRI may be identifiable as the po- t has been observed in the past, and above which recruitment appears to be more to stock size.	e that the e Blim. bint below related to
The st consid such I mana excee (or its Defau B0, th	andard deration evels w gement ded or t proxy) It value e stock	requires that r drops below l ithin a reasona actions to be the desired dir if the stock size s for the levels status that wo	management measures specify the actions to be taken in the event that the status of the st levels consistent with achieving management objectives that allow for the restoration of th able time frame. This requires the specification in advance of decision rules that mandate e taken if target reference points are exceeded and/or limit reference points are appro- rections in key indicators of stock status are not achieved. For example, decreasing fishing e approaches its limit reference point. This is a central component of the Precautionary Ap s of the PRI and BMSY, as used in scoring the stock status are given below. They are often puld be present in the absence of fishing.	ock under le stock to e remedial bached or g mortality pproach. related to
In the appro	e case v priate f	where neither or measuring s	BMSY nor the PRI are analytically determined, the following default reference point stock status depending on the species: BMSY=40%B0; PRI=20%B0=½BMSY.	s may be
	In th poin In th of th defa	e case where ts for measurin e case where he PRI, the def ult PRIs may b e case where	either BMSY or the PRI are analytically determined, those values should be used as the ng stock status unless additional precaution is sought. BMSY is analytically determined to be greater than 40%B0, and there is no analytical deterault PRI should be ½BMSY. This case covers the situation of low productivity stocks, whe e justified. BMSY is analytically determined to be lower than 40%B0 (as in some highly productive st	reference rmination ere higher

 In the case where BMSY is analytically determined to be lower than 40%B0 (as in some highly productive stocks), and there is no analytical determination of the PRI, the default PRI should be 20%B0 unless BMSY<27%B0, in which case the default PRI should be 75%BMSY.



- For stocks with average productivity, where BMSY is not analytically determined but assumed to be 40%B0 and a
 management trigger reference point is set greater than 40%B0 for precautionary reasons, the default PRI should still be
 set at 20%B0=½BMSY unless it is analytically determined. This covers situations where the management authority has
 deliberately chosen a conservative target reference point, but where the default PRI is still appropriate.
- In cases where the PRI is set at 20% B0, a default value for the BMSY may be assumed to be 2xPRI. In other cases, for
 instance where the PRI is set at the lowest historical biomass, it cannot be assumed that BMSY = 2xPRI. Teams shall
 justify any reference point used as a proxy of BMSY in terms of its consistency with BMSY.

The default PRI values given above (½BMSY or 20%B0) apply to stocks with average productivity. Such points are generally consistent with being above the point at which there is an appreciable risk that recruitment is impaired, though for some short-lived stocks the actual point at which there is an appreciable risk that recruitment is impaired may be lower than 20%B0 and for some long-lived species it may be higher than this.

References

- Catch composition data
- Stock assessments
- Management measures for any stocks shown to be depleted

Evidence that the fishery is not hindering the recovery of the species below the PRI, such as evidence indicating a lack of gear interaction, or evidence pointing to an unrelated cause (or fishery) limiting recovery.

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



CATEGORY D SPECIES

Category D species are those which are not subject to a species-specific management regime. 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 Marine Stewardship Council (MSC) criteria, see MSC Certification Process, Version 2.1, 31 August 2018 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.
- Where there is uncertainty affecting the assessor's decision when scoring the susceptibility attributes this should be noted in Table D1.
- 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.



Category D species

D1	Species Name					
	Productivity Attribute	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 Attribute	Value	Score			
	Availability (area overlap)					
	Encounterability (the position of the stock/species within the					
	water column relative to the fishing gear)					
	Selectivity of gear type					
	Post-capture mortality					
		Average Susceptibility Score				
		PSA Risk Rating (From Table D3)				
		Compliance rating	Pass/fail?			
	Further justification for susceptibility scoring (where relevant) For susceptibility attributes, please provide a brief rationale for scoring of parameters where there may be uncertainty affecting your decision					
Refere	nces					

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	Lo (L	ow susceptibility ow risk, score = 1)	M (n	Medium susceptibility (medium risk, score = 2)		High susceptibility (high 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	Low overlap with fishing gear (low encounterability).		Medium overlap with fishing gear.		High overlap with fishing gear (high encounterability). Default score for target species		
Selectivity of gear type Potential of the gear to retain species	а	Individuals < size at maturity are rarely caught	а	Individuals < size at maturity are regularly caught.	а	Individuals < size at maturity are frequently caught	
	b	Individuals < size at maturity can escape or avoid gear.	b	Individuals < half the size at maturity can escape or avoid gear.	b	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	Ev rel an	vidence of majority leased post-capture d survival.	Ev rel an	ridence of some eased post-capture d survival.	Re ma rel	etained species or ajority dead when leased.	



D3		Average Susceptibility Score			
		1 - 1.75	1.76 - 2.24	2.25 - 3	
Average Productivity Score	1 - 1.75	PASS	PASS	PASS	
	1.76 - 2.24	PASS	PASS	TABLE D4	
	2.25 - 3	PASS	TABLE D4	TABLE D4	

D4	Spe	cies Name				
	Impact	Impacts On Species Categorised 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 reasonable measures are taken to minimise these impacts.				
	D4.2	There is no substantial evidence that the fishery has a significant negative impact on the species.				
		Outcome:				

Evidence

D4.1: The potential impacts of the fishery on this species are considered during the management process, and reasonable measures are taken to minimise these impacts.

Is there a quantitative breakdown of catches in the fishery?

Are there any ecosystem descriptions or catch composition time series available that may provide some empirical evidence of relative status of any such species?

Are there management measures in place for any stocks shown to be depleted?

D4.2 There is no substantial evidence that the fishery has a significant negative impact on the species.

Some quantitative information on that enables the assessment of the impact of the fishery on the species should be available. Management measures, ecosystem descriptions etc.

References

- FishBase.org
- Management measures
- Time series of catch and effort
- Ecosystem descriptions

• Life history characteristics providing indications of species productivity, vulnerability and susceptibility to capture.

• Observer reports

L	.in	ks	

MarinTrust Standard clause	1.3.2.2, 4.1.4
FAO CCRF	7.5.1
GSSI	D.5.01

Appendix A - Determining Resilience Ratings

The assessment of Category B species described in this assessment report template utilises a resilience rating system suggested by the American Fisheries Society. This approach was chosen because it is also used by FishBase, and so the resilience ratings for many thousands of species are freely available online. As described by FishBase, the following is the process used to arrive at the resilience ratings:

"The American Fisheries Society (AFS) has suggested values for several biological parameters that allow classification of a fish population or species into categories of high, medium, low and very low resilience or productivity (Musick 1999). If no reliable estimate of rm (see below) is available, the assignment is to the lowest category for which any of the available parameters fits. For each of these categories, AFS has suggested thresholds for decline over the longer of 10 years or three generations. If an observed decline measured in biomass or numbers of mature individuals exceeds the indicated threshold value, the population or species is considered vulnerable to extinction unless explicitly shown otherwise. If one sex strongly limits the reproductive capacity of the species or population, then only the decline in the limiting sex should be considered. We decided to restrict the automatic assignment of resilience categories in the Key Facts page to values of K, tm and tmax and those records of fecundity estimates that referred to minimum number of eggs or pups per female per year, assuming that these were equivalent to average fecundity at first maturity (Musick 1999). Note that many small fishes may spawn several times per year (we exclude these for the time being) and large live bearers such as the coelacanth may have gestation periods of more than one year (we corrected fecundity estimates for those cases reported in the literature). Also, we excluded resilience estimates based on rm (see below) as we are not yet confident with the reliability of the current method for estimating rm. If users have independent rm or fecundity estimates, they can refer to Table 1 for using this information."

Parameter	High	Medium	Low	Very low
Threshold	0.99	0.95	0.85	0.70
r _{max} (1/year)	> 0.5	0.16 - 0.50	0.05 - 0.15	< 0.05
K (1/year)	> 0.3	0.16 - 0.30	0.05 - 0.15	< 0.05
Fecundity (1/year)	> 10,000	100 - 1000	10 - 100	< 10
t _m (years)	< 1	2 - 4	5 - 10	> 10
t _{max} (years)	1 - 3	4 - 10	11 - 30	> 30

[Taken from the FishBase manual, "Estimation of Life-History Key Facts", http://www.fishbase.us/manual/English/key%20facts.htm#resilience]

Appendix B: From MarinTrust Standard V2.0 Annex 2: Fish Byproduct 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 byproduct 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 MarinTrust 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