



The IFFO Global Standard for the Responsible Supply of fish oil

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IFFO

International Fishmeal and Fish Oil Organisation is the global trade association representing fishmeal and fish oil producers and related trades.

Represents two thirds of world production and 80% of trade in fishmeal and fish oil worldwide with producers in Europe, South America, Africa, USA, China and India.



Eco-efficiency of fishmeal & fish oil

Seasonal surplus of less desirable fish and inedible by-products are collected.

They are efficiently converted into concentrated stable products which can be economically shipped to where they are required

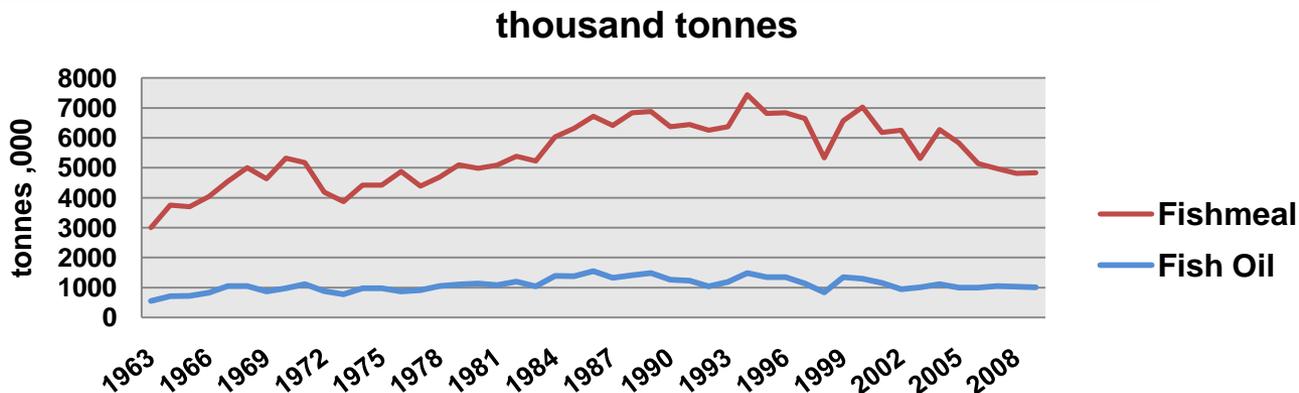


Important nutrition providers

Fishmeal is an excellent high protein feed ingredient used at least at some stage in almost all intensive aquaculture systems

Fish oil is the best source of the omega-3 fatty acids EPA & DHA

However, despite the growth of aquaculture and growing demand from human nutrition the global production of both fishmeal & fish oil has remained fairly static

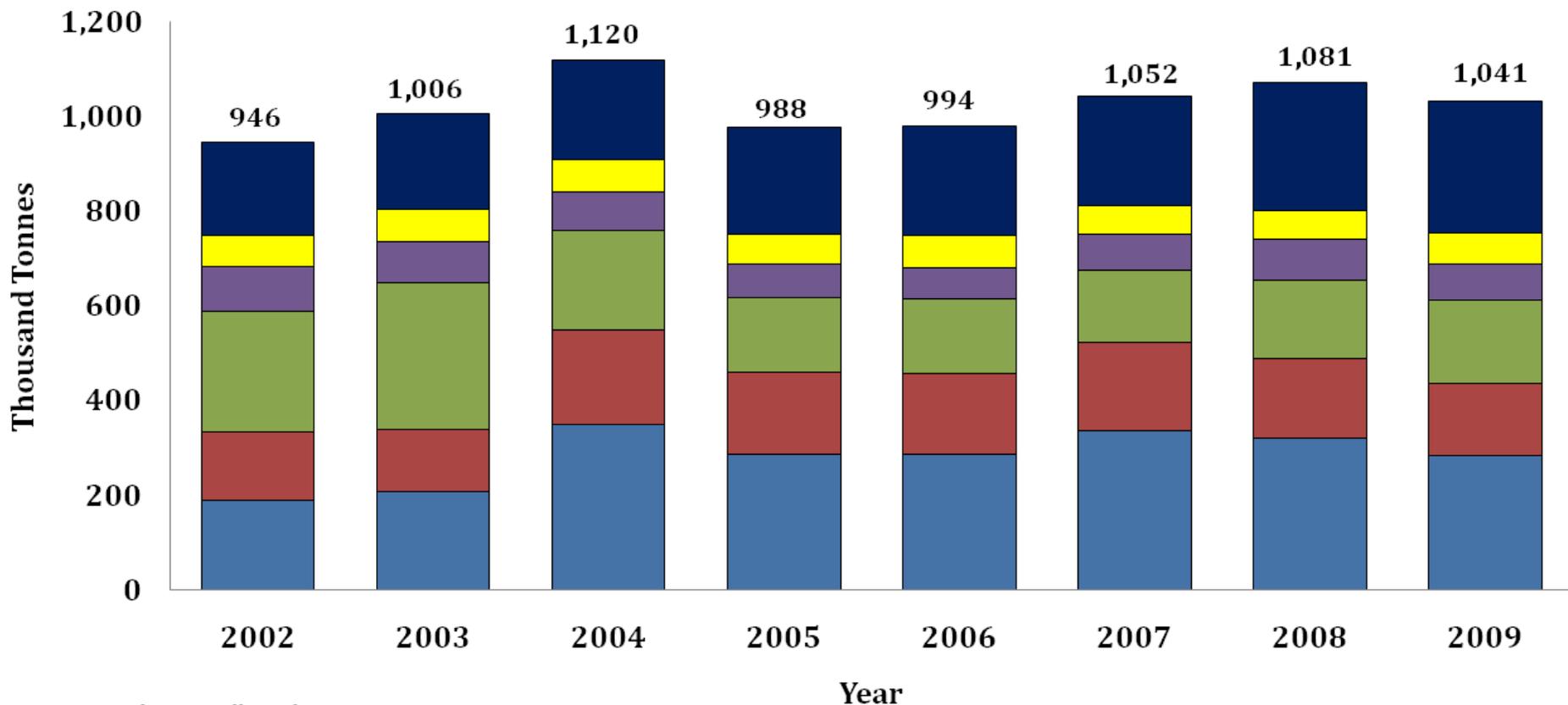




WORLD FISH BODY OIL PRODUCTION

MAJOR PRODUCERS

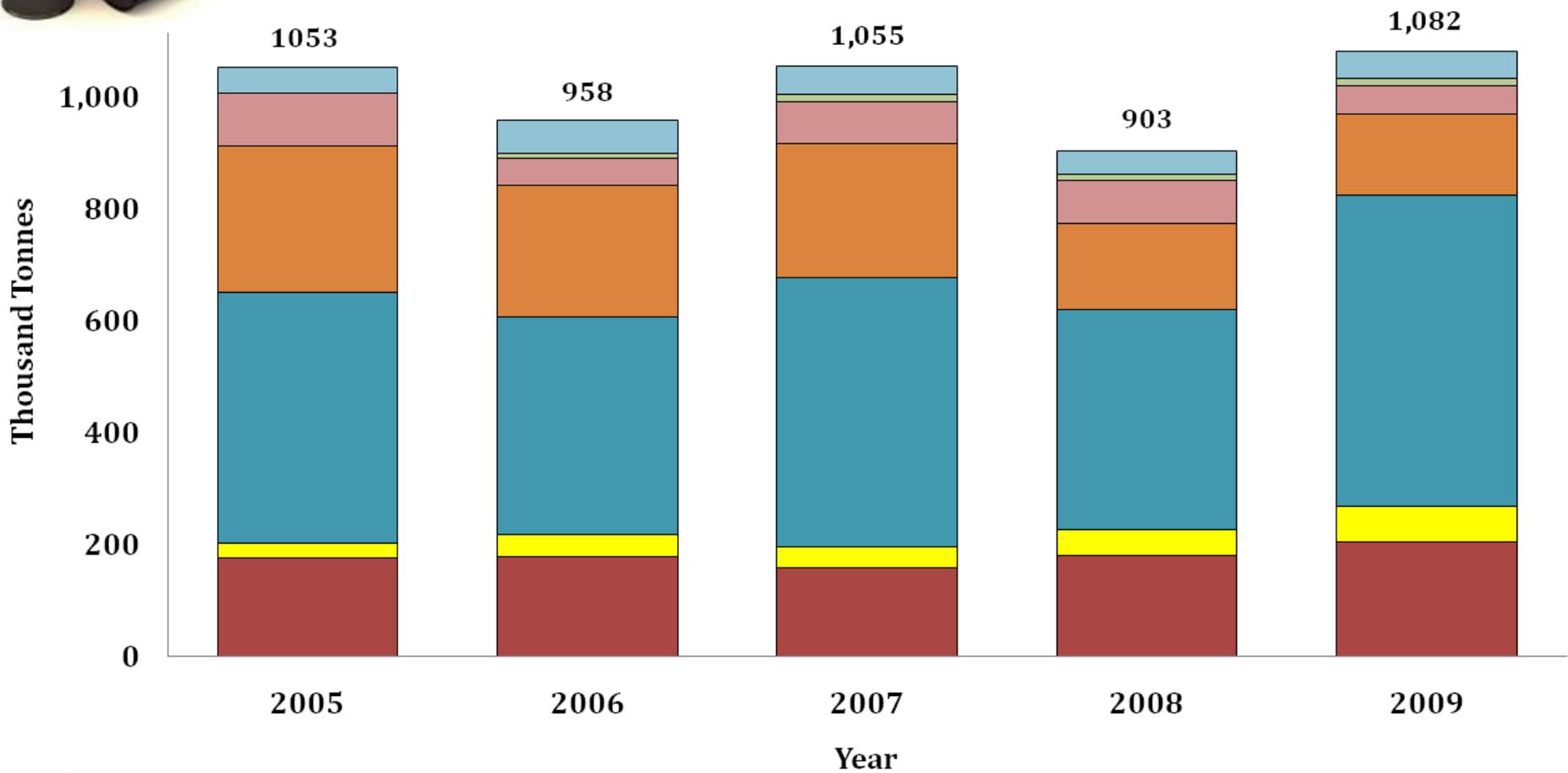
■ Peru
 ■ Chile
 ■ Scandinavia*
 ■ U.S.A.
 ■ Japan
 ■ Other





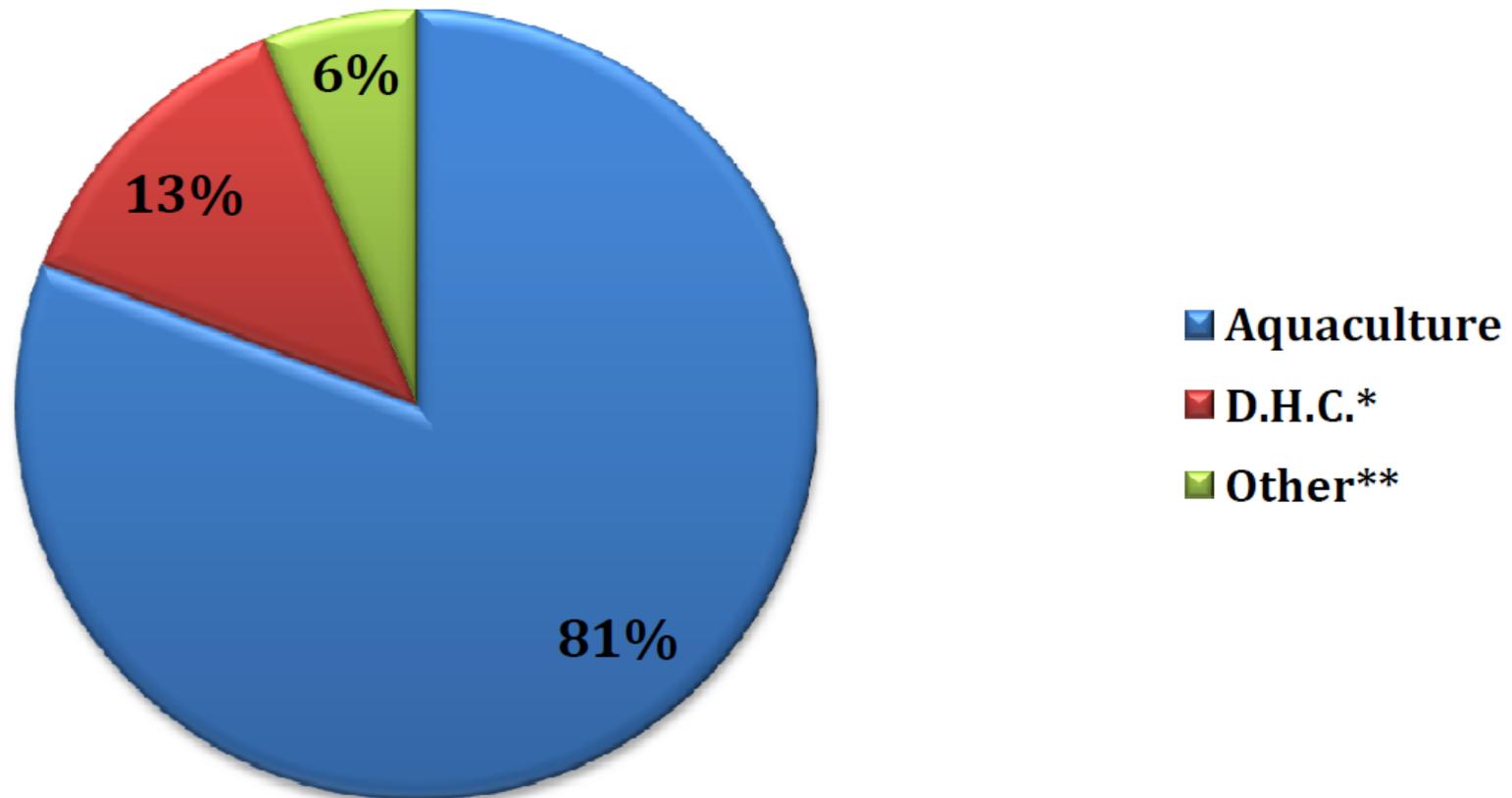
WORLD FISH OIL APPARENT CONSUMPTION

■ Asia (Exc. China)
 ■ China
 ■ Europe
 ■ Latin America
 ■ North America
 ■ Oceania
 ■ Other

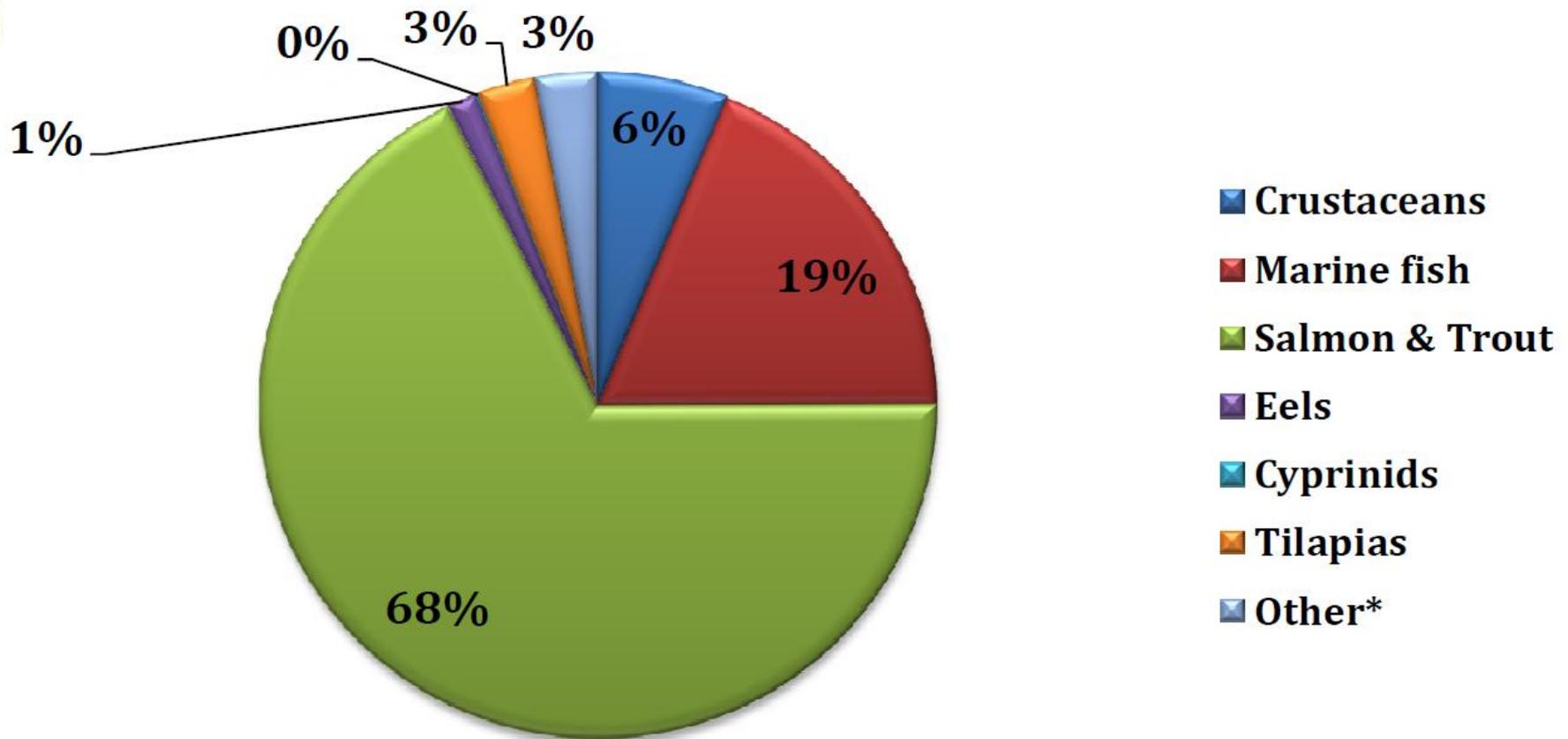


source: IFFO and ISTA Mielke GmbH, OIL WORLD

PERCENTAGE OF FISH OIL USAGE PER MARKET 2009



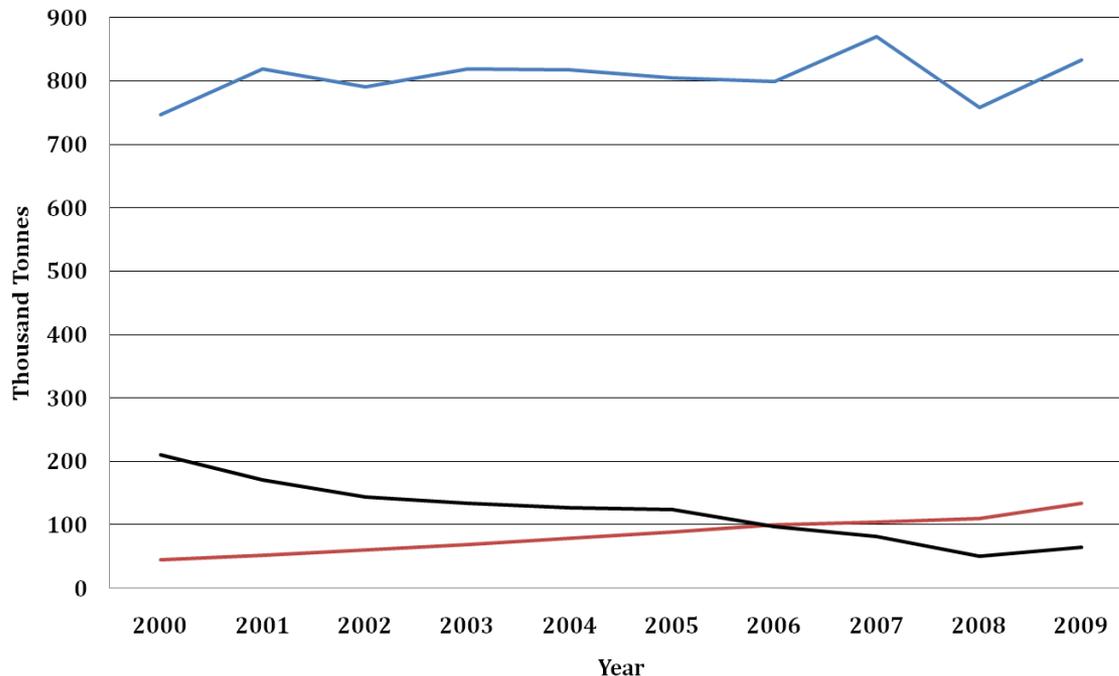
PERCENTAGE OF FISH OIL USAGE IN AQUACULTURE 2009



Changing markets for fish oil

TRENDS OF USE FOR FISH OIL

— Aquaculture — Direct Human Consump — Other



IFFO data

Salmon farming growing by reducing fish oil inclusion level and increasing plant oil inclusion e.g. canola

Industrial uses including for hydrogenation decreasing

Use as a direct provider of EPA & DHA increasing

Recent paper in FAO report (Wijkström 2010) stated:

“Where feed fisheries are not managed sustainably, aquaculture today constitutes an important threat to world fish stocks because of aquaculture’s reliance on fishmeal and thus on reduction fisheries”

- Most fisheries have been poorly managed at some stage
- Significant improvements have been made in the last ten years
- For example Peru now has some of the best managed fisheries in the world:

Table 6. Average performance scores for the 53 countries.

Country	Average score	Country	Average score
Peru	6.42	Sweden	3.82
Namibia	5.10	Pakistan	3.81
USA	5.10	Indonesia	3.80
Germany	4.90	Japan	3.78
Poland	4.82	Australia	3.78
Norway	4.71	Spain	3.77
Senegal	4.70	Taiwan	3.75
Chile	4.67	Thailand	3.74
South Africa	4.64	Viet Nam	3.70

**RANKING MARITIME COUNTRIES
BY THE SUSTAINABILITY OF THEIR
FISHERIES Mondoux *et al* (2008)**

Responsible management of fisheries

World's largest feed fishery - the Peruvian anchovy – now well managed

Europe re-building its feed fisheries

Still concern over feed fisheries in Asia – mostly due to a lack of fisheries information

It is becoming increasingly important to be able to demonstrate responsible fisheries management of the raw material

Reassuring the value-chain about fisheries management

FAO Code of
Conduct for
Responsible
Fisheries is the
only
internationally
recognised
measure of good
management

MSC standard
certifies fisheries
that are managed
according to FAO
Code

Currently small
volumes of
fishmeal & fish
oil available from
MSC approved
fisheries – more
under
assessment

It can be slow
and expensive to
undertake an
MSC assessment



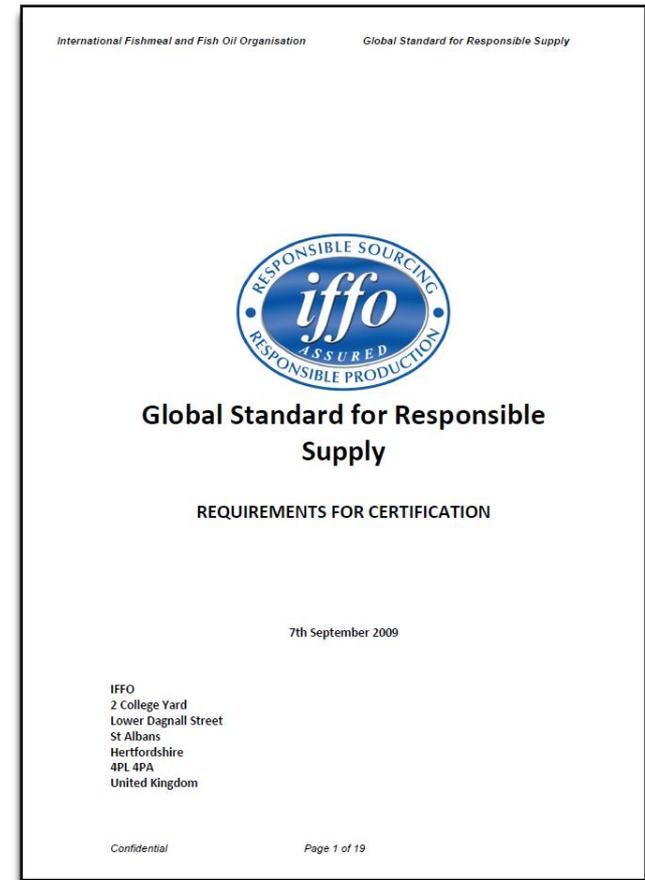
IFFO recently launched its Global Standard for Responsible Supply (IFFO RS)

RS is a B-to-B initiative following the ISO-65 Standard

Standard developed by multi-stakeholder committee including producers, traders, feed companies, fish farmers, major retailers, standard setters & NGOs

A 3rd party Certification Body was appointed to conduct audits into each application

Currently undergoing ISO 65 Accreditation





To obtain IFFO RS a factory must be able to demonstrate to our Certification Body that it:



Sources its whole-fish raw material from fisheries managed according to the FAO Code of Conduct for Responsible Fisheries (including MSC)

Avoids the use of Illegal, Unreported & Unregulated fish IUU

Does not source fisheries by-products from IUCN red listed fisheries or IUU fish

Manufactures under a recognised quality control scheme to ensure product safety & purity (FEMAS, GRP+ or other HACCP+ scheme)



MSC & IFFO RS are different things

IFFO RS is a B-to-B certification programme that enables a compliant factory to demonstrate that it responsibly sources its raw material from well managed fisheries and responsibly converts that into pure and safe products.

The MSC's fishery certification program and seafood eco-label recognise and reward sustainable fishing.





IFFO-RS progress to date - 1

Launched
to
members
in October
2009

First factory
was
awarded
certification
in February
2010

Country	Fishery	N° of companies	N° of certified factories	N° of factories pending certification
Peru	Peruvian anchovy (<i>Engraulis ringens</i>)	8	44	8
USA	Gulf menhaden (<i>Brevoortia patronus</i>)	2	2	0
Iceland	Blue whiting (<i>Micromesistius poutassou</i>)	5	6	5
	Capelin - (<i>Mallotus villosus</i>)			
	Summer spawning herring			
	Atlanto spring spawning herring (<i>Clupea harengus</i>)			
Denmark	Norway pout (<i>Trisopterus esmarkii</i>)	1	2	0
	Sand eel (<i>Ammodytes marinus</i>)			

IFFO RS progress to date - 2

This represents
over 20% of
world production
of fish oil

There are more
factories &
fisheries in
assessment

Factories utilising
fisheries by-
products can now
apply for approval
under a recently
launched new
extension to the RS
standard

The IFFO RS
standard is under
continuous
development e.g.
Chain-of-Custody



CRODA

World leaders in Speciality Chemicals

Currently
developing a Chain
of Custody standard
for both fishmeal &
fish oil

Working with Croda
UK to pilot the C of
C oil standard from
fish oil plant to
capsule



Global Standard for Responsible Supply (IFFO RS)



Certification programme
for fishmeal and fish oil

Supplies of fishmeal and fish oil from factories which have been independently audited and certified as complying with the IFFO RS, first entered the market in 2010. The IFFO RS programme assures the animal feed, food and nutraceutical value chains that these key ingredients are both responsibly sourced and responsibly produced.



"THE FIRST LINK IN A FULLY CERTIFIED AQUACULTURE SUPPLY CHAIN IS IN PLACE"

www.iffo.net
for more
information
including a full
list of approved
plants

But is IFFO RS becoming recognised?



4. To support independent standards

We will continue to support the development and widespread adoption of certification standards for responsible fisheries and aquaculture as well as a process for certifying producers who adopt the standards. Examples include:

- The Marine Stewardship Council
- The Aquaculture Stewardship Council the WWF Aquaculture Dialogues
- The International Fishmeal and Fish Oil Organisation Global Standard for Responsible Supply
- GlobalGAP
- The Global Aquaculture Alliance Best Aquaculture Practises
- The International Seafood Sustainability Foundation
- Icelandic Responsible Fisheries

AIPCE-CEP Recommendations

Principles for
Environmentally
Responsible Fish Sourcing



AIPCE is the EU Fish Processors and Traders Association.

The companies in AIPCE have sales in excess of 4 billion euros



AIPCE-CEP

EU Fish Processors and Traders Association
Association des Industries du Pêche de l'UE

Summary of the Aquaculture standards

	GlobalGAP	GAA BAP	WWF ASC
Food Safety	Yes	Yes	No
Environmental	Not much	Yes	Yes
B-to-B or Consumer facing	B-to-B	Both	Eco-label
ISO 65 or ISEAL	ISO	ISO	ISEAL
Recognition of IFFO RS	No need	Yes	Yes qualified

IFFO RS is becoming recognised as a useful tool to demonstrate responsible production in Aquaculture

IFFO-RS Improvers Programme under discussion

Concern that factories in some countries will find the RS Standard difficult to achieve

No wish to dilute the current IFFO-RS standard

Desire to bring about fishery and factory improvement where required

May require government commitment in some cases

May require access to capital funds for investment in factory & fisheries management

Multi-lateral discussions are taking place with different parties including FAO, NGO's etc

Conclusions

Marine ingredients are essential for the production of efficient & healthy aquaculture products as well as EPA & DHA products for direct human consumption

It is increasingly important to be able to demonstrate responsible sourcing of marine ingredients from a limited supply

IFFO RS is being adopted by marine ingredient producers to demonstrate their responsible practices – already over 20% of supply

IFFO RS is increasingly being accepted by the value-chain as a useful tool to demonstrate responsible use of marine ingredients