WORLDWIDE TRENDS FOR FISHMEAL AND FISH OIL – PRODUCTION, SUSTAINABILITY AND MARKET

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- IFFO is the global trade association representing marine ingredient producers and others in the supply chain.
- Represents over 50% of world production and 75% of trade in fishmeal and fish oil worldwide with producers in Europe, South America, Africa, USA, China and India.



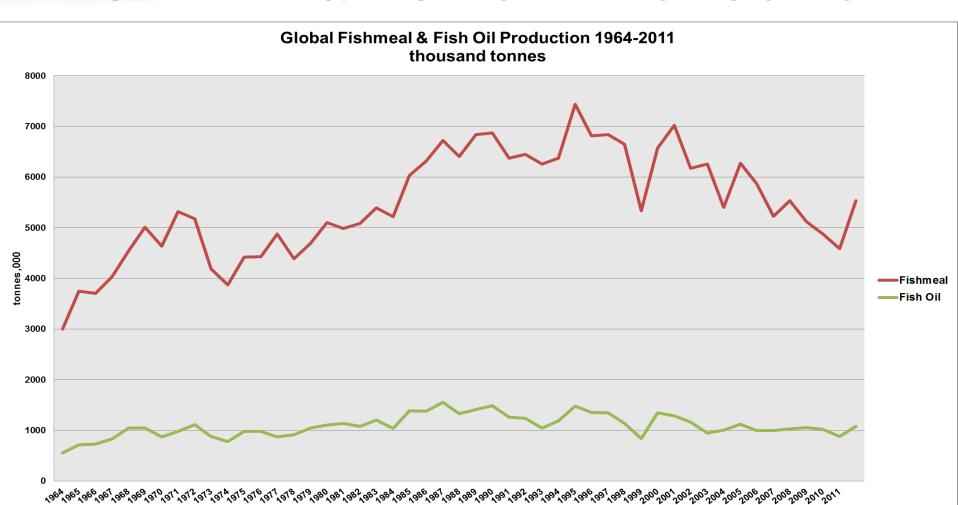
SUPPLY





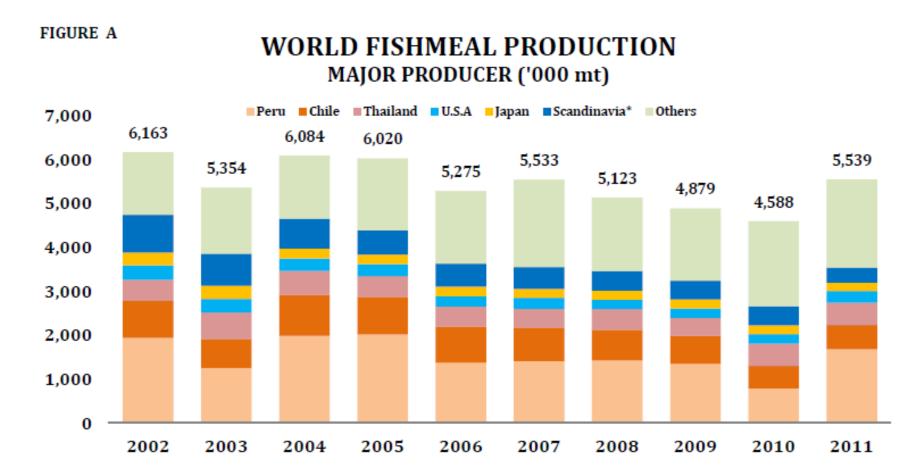


FISHMEAL & FISH OIL PRODUCTION





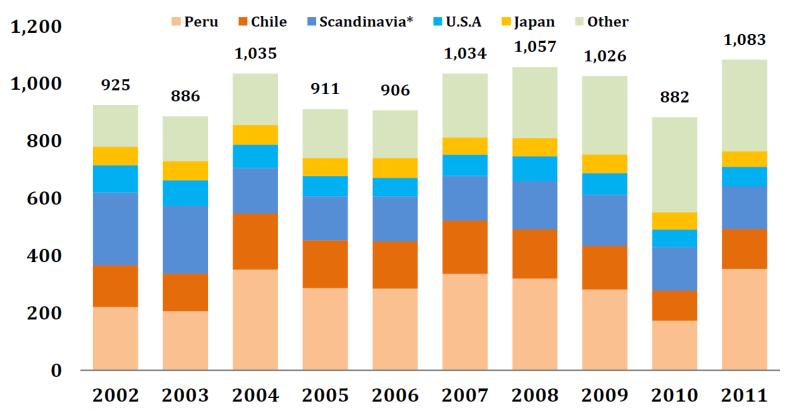
FISHMEAL PRODUCTION





FISH OIL PRODUCTION

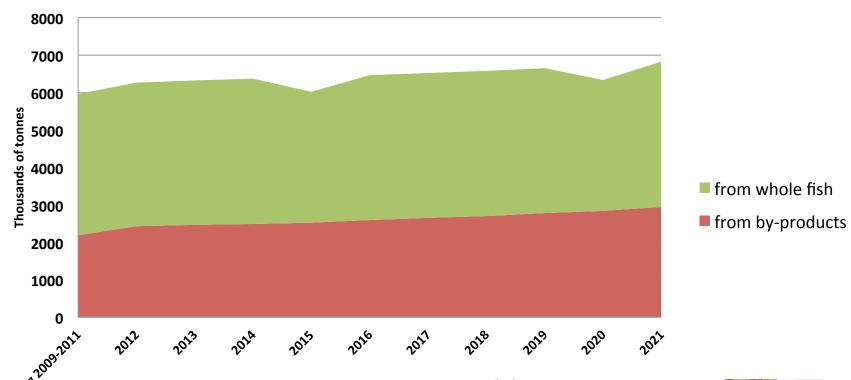
WORLD FISH BODY OIL PRODUCTION
MAJOR PRODUCERS ('000 mt)





INCREASINGLY FISHMEAL IS COMING FROM BY-PRODUCTS

Estimated Fishmeal Production









THE SAME IS TRUE FOR FISH OIL

Estimated Fish Oil Production









OUTLOOK FOR RAW MATERIALS

- The availability of raw materials is holding back the growth of marine ingredients
- Fewer whole fish are available due to precautionary fishing and more going for direct human consumption
- Rising value is making more by-products available
- Aquaculture by-products are increasingly providing raw material for marine ingredients



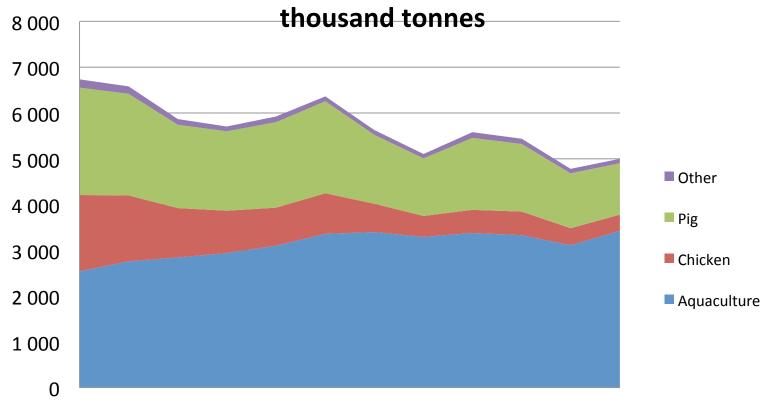
DEMAND





CHANGING DEMAND FOR FISHMEAL FROM DIFFERENT MARKETS





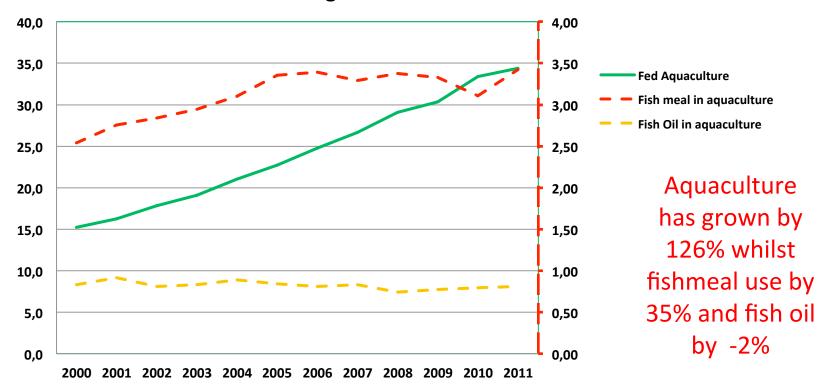


2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011

Source: FAO & IFFO

STRONG GROWTH IN AQUACULTURE WHILST LESS GROWTH IN USE OF MARINE INGREDIENTS

Global Aquaculture Production with fishmeal and fish oil usage 2000-2011 tonnes millions

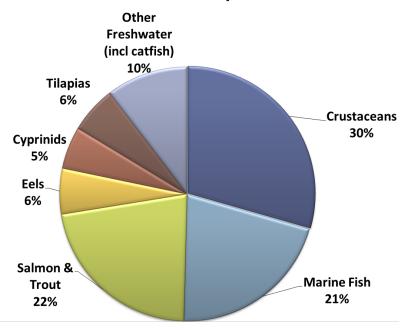




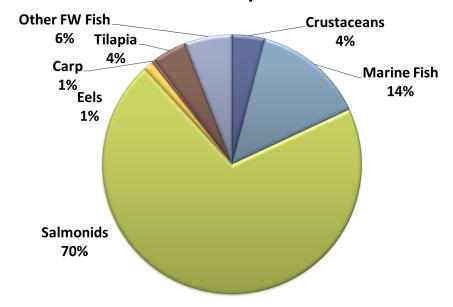
Source: FAO & IFFO

MARINE INGREDIENT USE IN AQUACULTURE

Use of Fishmeal in Aquaculture 2011



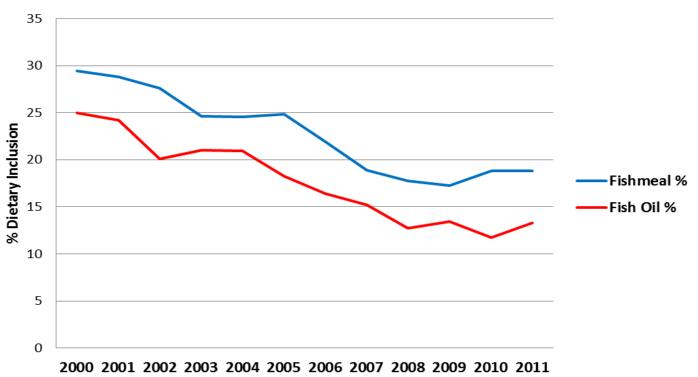
Use of fish oil in Aquaculture 2011

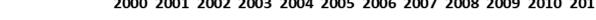




INCLUSION LEVELS IN DIETS ARE **FALLING**

Inclusion levels of marine ingredients in Salmonid diets 2000-2008

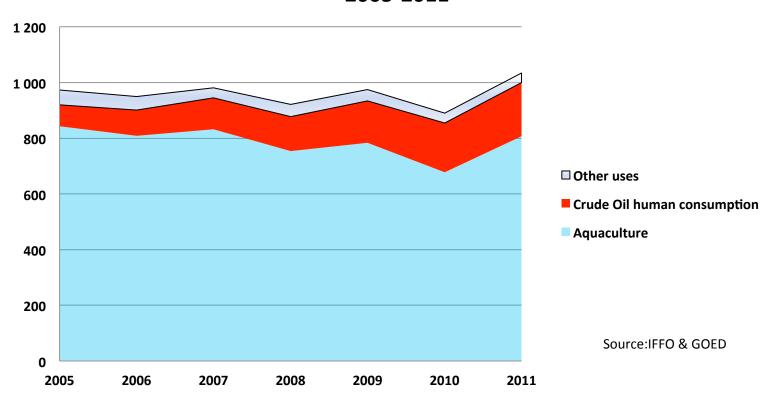






INCREASING VOLUMES OF OIL GOING FOR DIRECT HUMAN CONSUMPTION

Global Fish Oil usage (tonnes ,000) 2005-2011





OUTLOOK DEMAND

Fishmeal

- Continuing demand from specialist pig & poultry diets
- Aquaculture will continue to be the biggest user reducing inclusion levels will be compensated by growth in volumes
- Small but growing volumes for direct human consumption

Fish Oil

- Growing volumes for direct human consumption
- Salmon will continue to use significant volumes to maintain health claims (what about tuna?)
- Essential fatty acid requirement of other aquaculture species will continue to be a significant user



SUSTAINABILITY



EUROPE IS WATCHING YOU



FISHMEAL & FISH OIL SHOULD ONLY BE MADE FROM RESPONSIBLY SOURCED RAW MATERIALS

- Increasingly buyers/consumers are looking for reassurance about sourcing of marine ingredients
- Very little raw material from "Sustainably" certified fisheries
- What there is comes mostly from byproducts of MSC certified fisheries







FISHMEAL SHOULD ONLY BE MADE FROM RESPONSIBLY SOURCED RAW MATERIALS

- Six years ago IFFO decided a Responsible Supply standard was needed
- Working with multi-stakeholder group including eNGOs & retailers a standard was developed
- Unit of certification is the factory which much responsibly source raw material and responsibly produce meal & oil
- Whole fish raw material must come from fisheries that are managed under FAO Code of Conduct for Responsible Fishing





INCREASING VOLUMES OF IFFO RS CERTIFIED MATERIAL ARE AVAILABLE

- First factory was certified in 2009
- Around 40% of global fishmeal and fish oil production is now certified
- Chain of Custody standard also available





THANK YOU

