



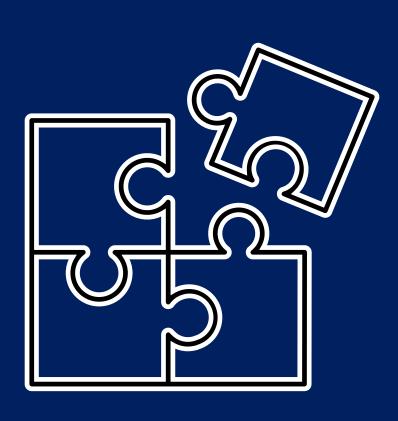
FAO
Fisheries and Aquaculture Division

FAO REGIONAL WORKSHOP ON OPPORTUNITIES AND CHALLENGES IN ECONOMIC AND POST-HARVEST ISSUES RELATED TO FISHERIES AND AQUACULTURE **PRODUCTS**

With the collaboration of the Ministry of Marine Affairs and Fisheries of Indonesia and INFOFISH

October 2024

Interaction



 Go to <u>www.menti.com</u> and type

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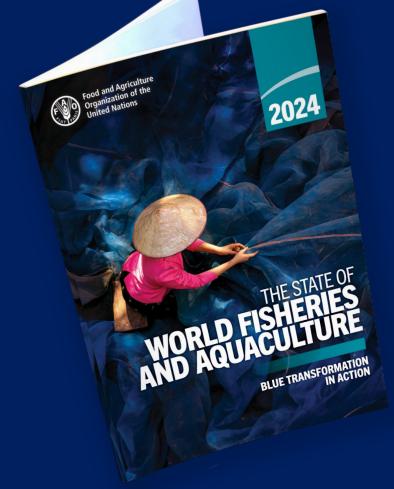
Fisheries and Aquacul



An Important Group of Animal Proteins in Social, Economic and Environmental Terms

THE STATE OF THE WORLD FISHERIES AND AQUACULTURE 2024







What are fisheries and aquaculture products?

What are fisheries and aquaculture products?

In terms of products

- Aquatic animals
 - Fish
 - Crustaceans
 - Molluscs
- Algae
 - Macroalgae
 - Microalgae
 - Cyanobacteria
- Other aquatic animals
 - Corals
 - Sponges

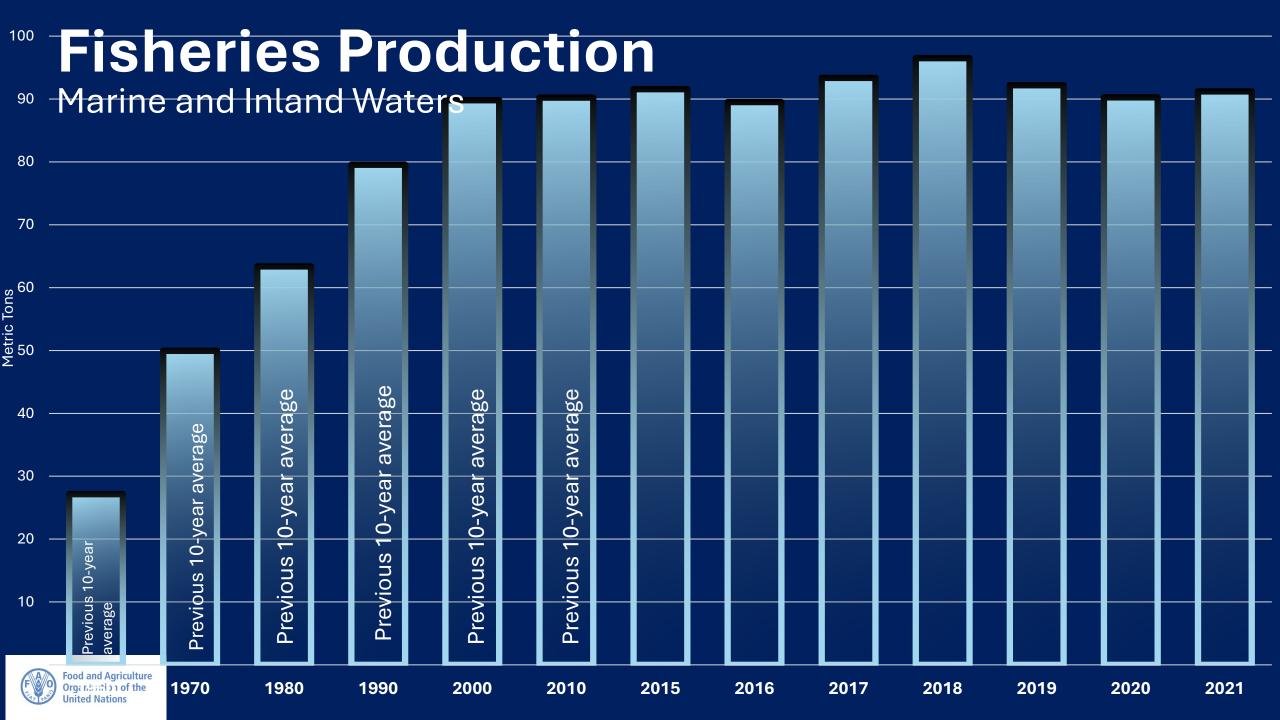
Food and Agriculture Organization Others

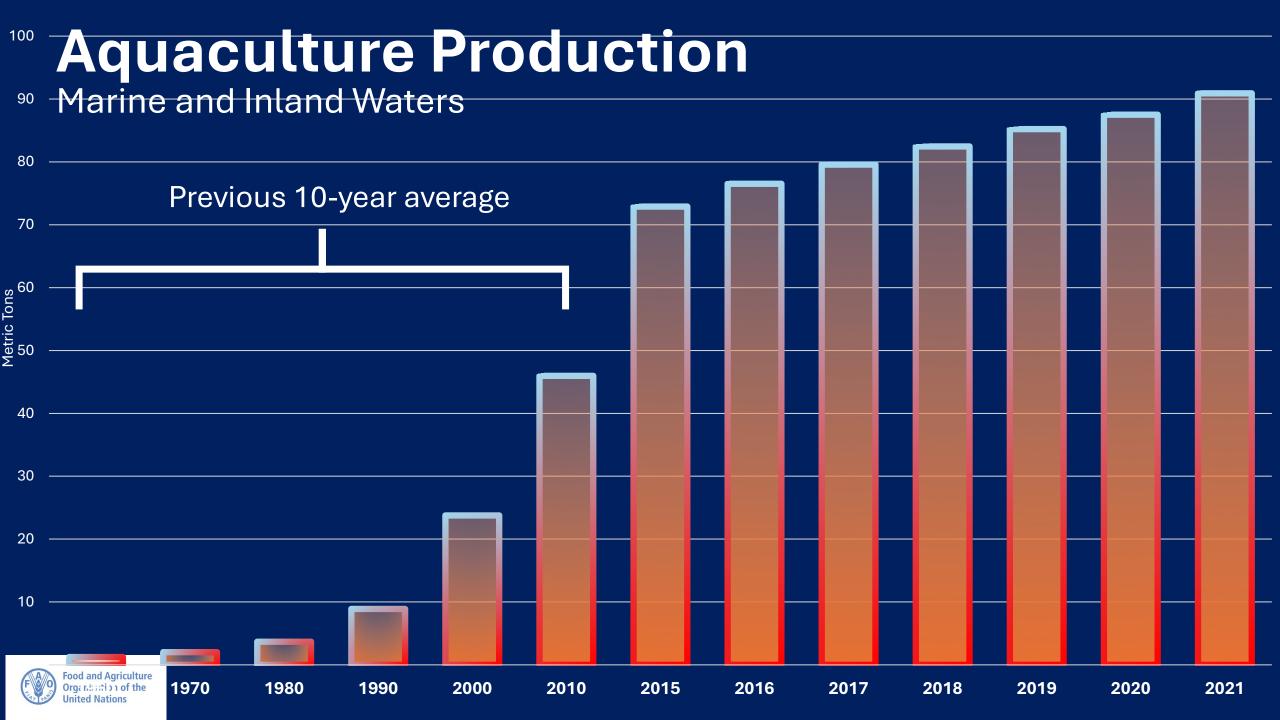
In different forms and for different uses

- Forms
 - Whole
 - In parts
 - Processed
 - Not Processed
- Uses
 - Consumption
 - Other final utilization
 - Domestic Markets
 - International Markets

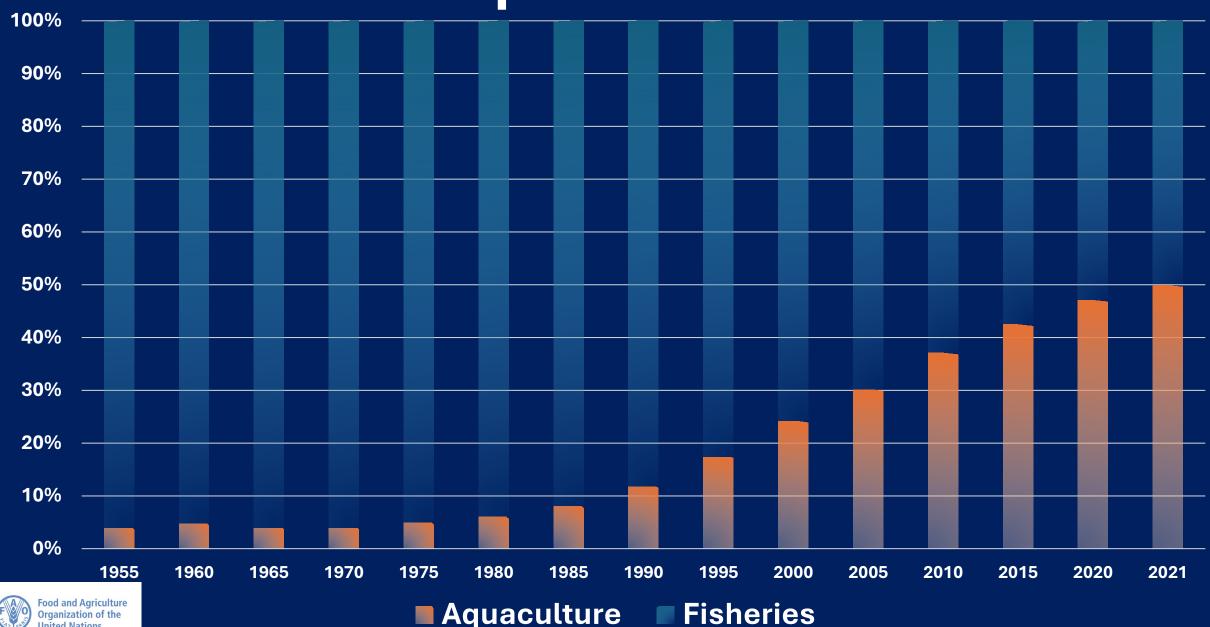
What is **NOT** included

- Mammals
- Reptiles
- Amphibians
- Turtles





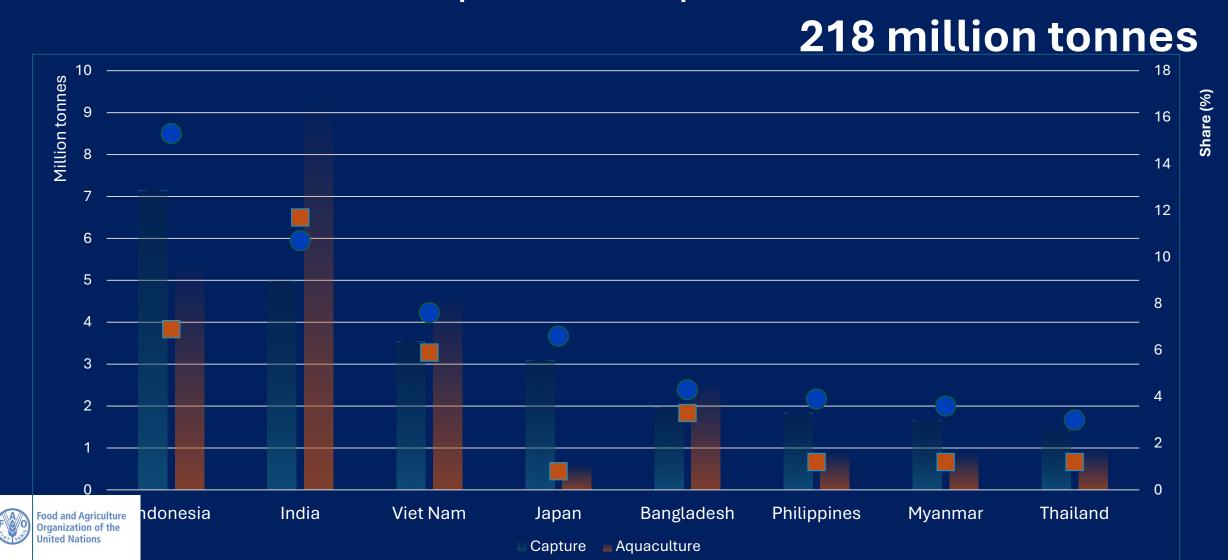
Fisheries and Aquaculture Production



Organization of the

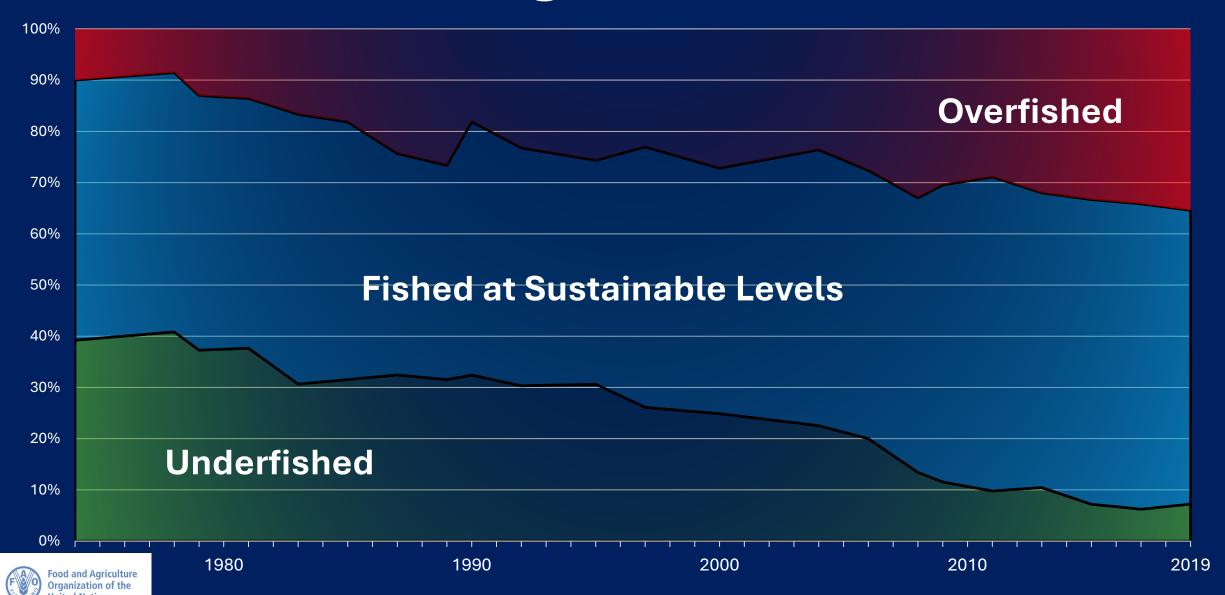
Fisheries and Aquaculture Production

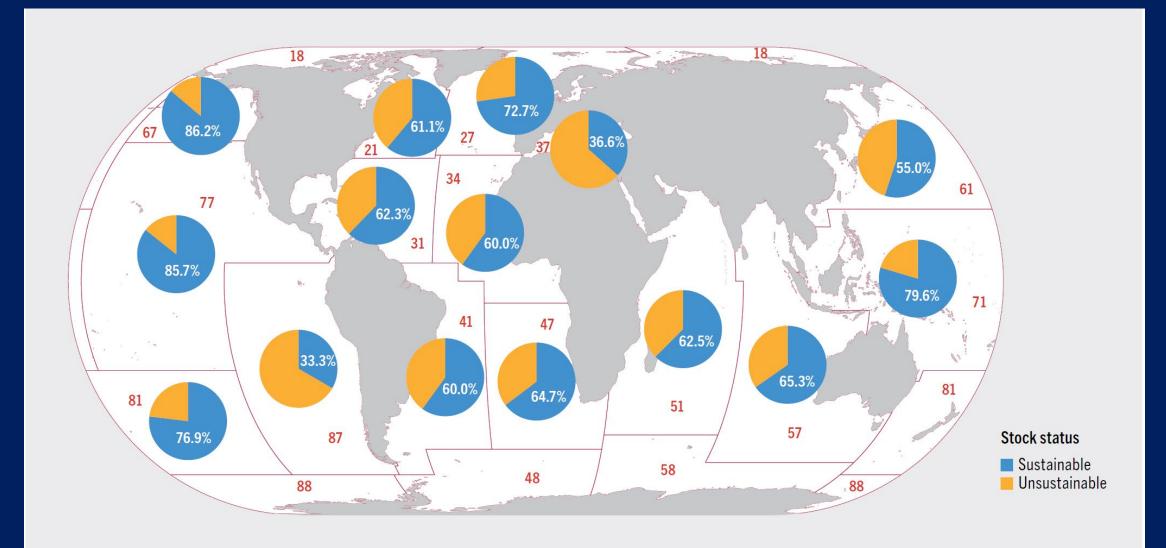
Total fisheries and aquaculture production:





Stock Status along the Years

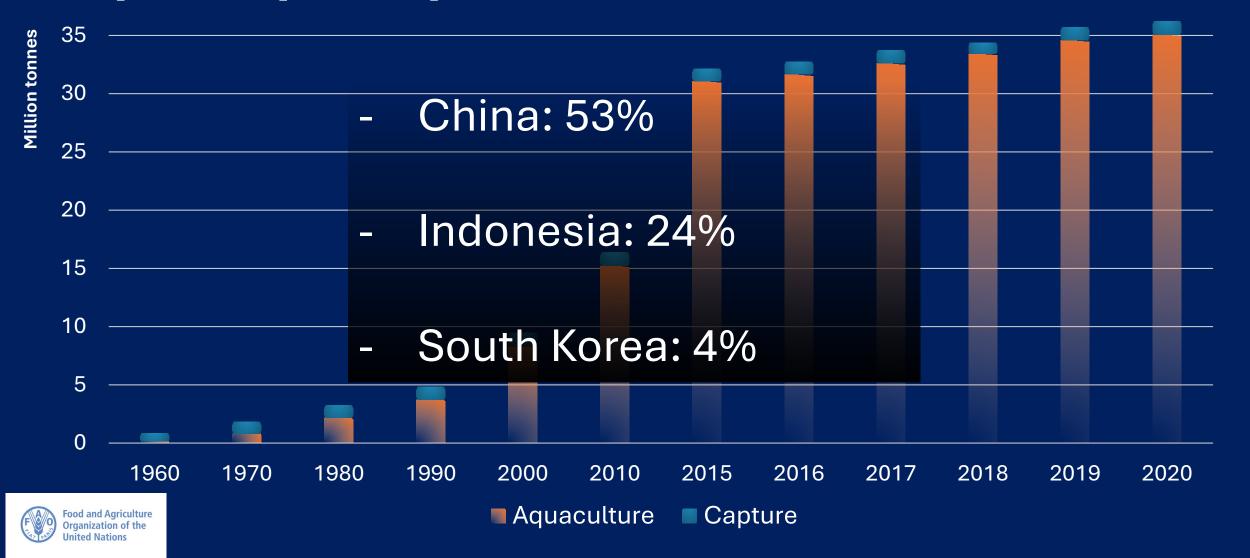




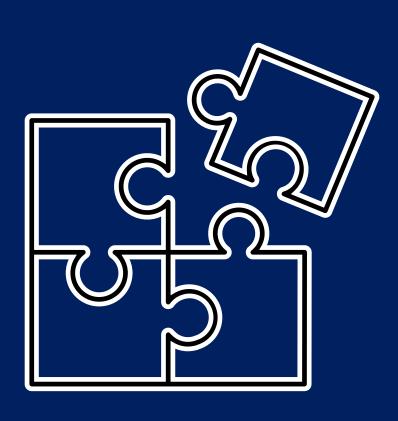
NOTE: The digital percentages represent the proportion of sustainable stocks. SOURCE: FAO.



The incredible growth of Chart Title aquatic plant production



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The Importance of Fisheries and Aquaculture in Social Terms

More than **60 million people** employed

- 65% in capture
- 35% in aquaculture

Geographic Distribution

- **84**% in Asia

Gender inclusion

- 21% are women

Importance of **Small-**

Scale Fisheries

- 40% of total catch
- 500 million people associated





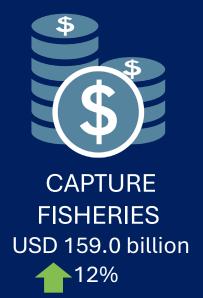
SECTOR INCREASINGLY IMPORTANT IN CONTRIBUTING TO LOCAL ECONOMIES

TOTAL FIRST SALE VALUE

STATES AND TERRITORIES TRADING

USD 472 BILLION





230

TRADE VALUE

(Aquatic Animals)

USD 192.0 billion

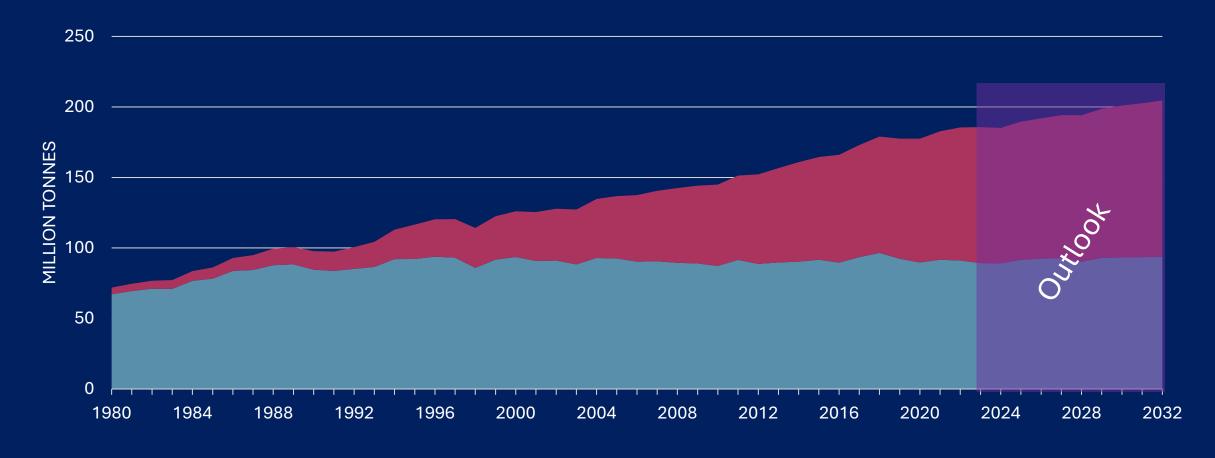




MORE IS EXPECTED FROM AQUATIC FOOD SYSTEMS

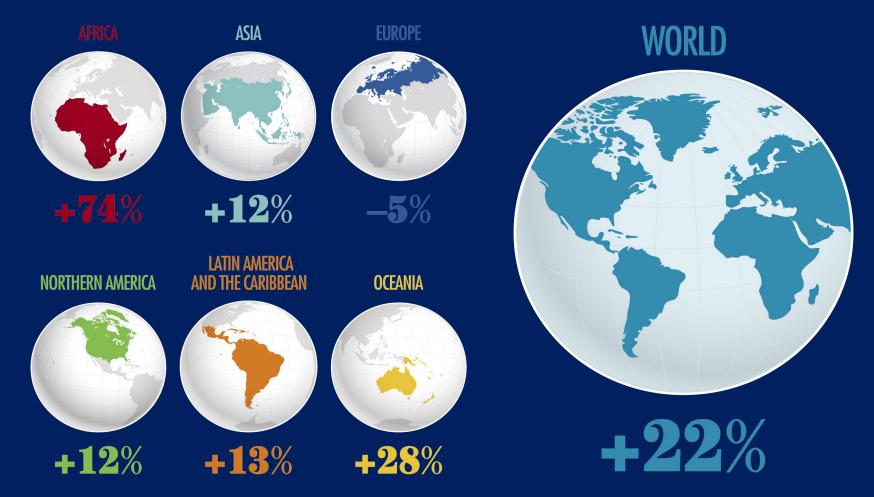


PRODUCTION OF AQUATIC ANIMALS EXPECTED TO GROW BY 10% BY 2032



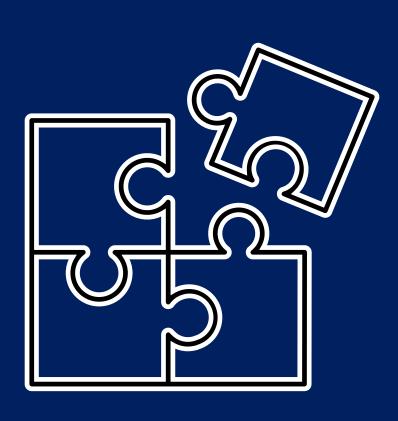


NEED FOR GROWTH IN AQUATIC ANIMAL SUPPLY BY REGION BY 2050*





Interaction

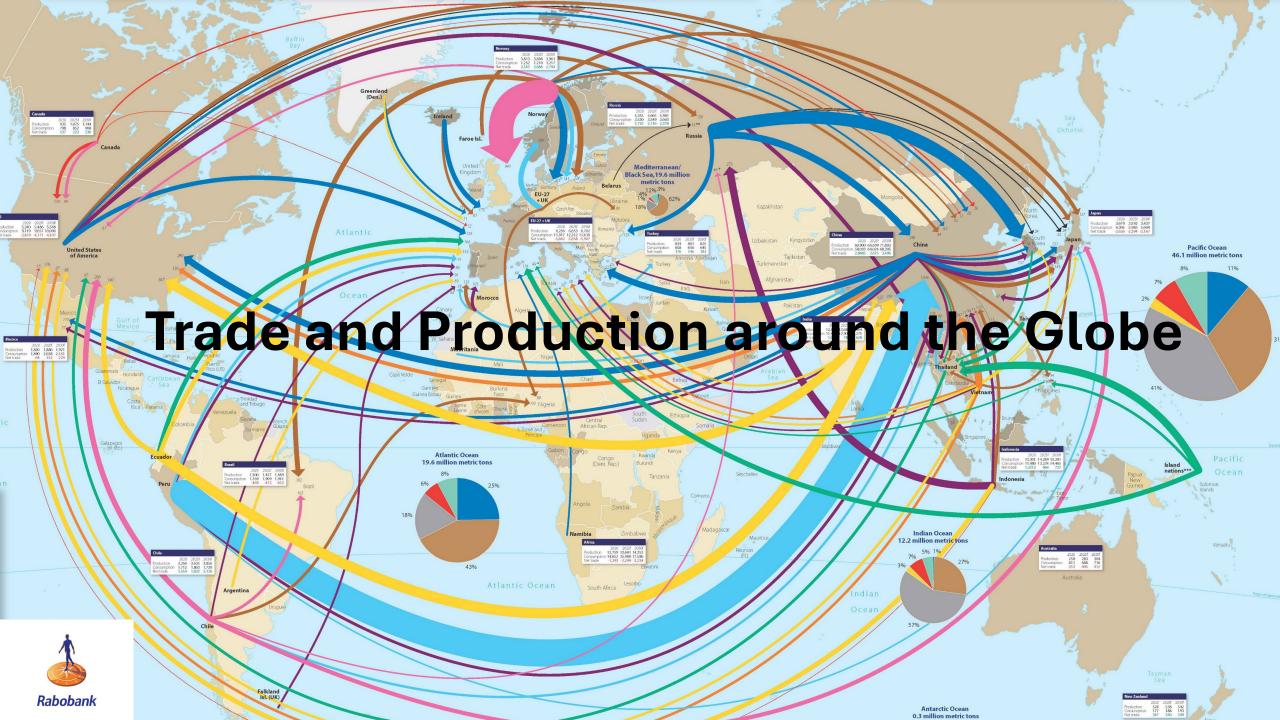


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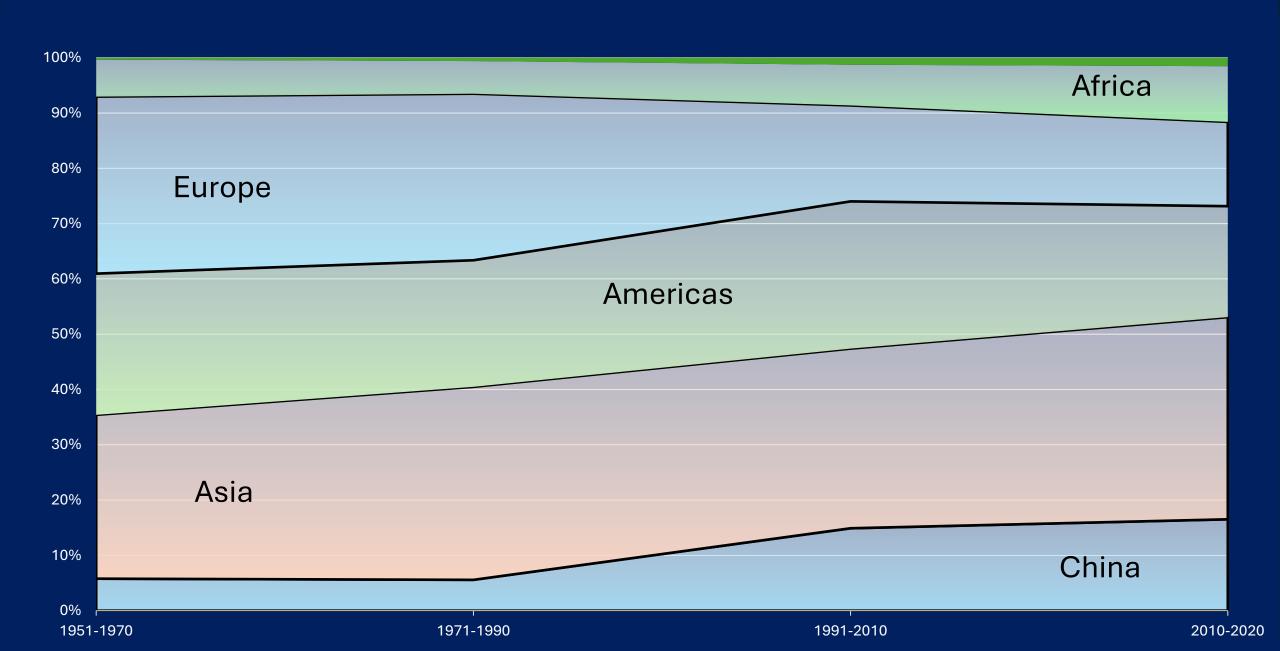


PRODUCTION BY REGION IN 2022

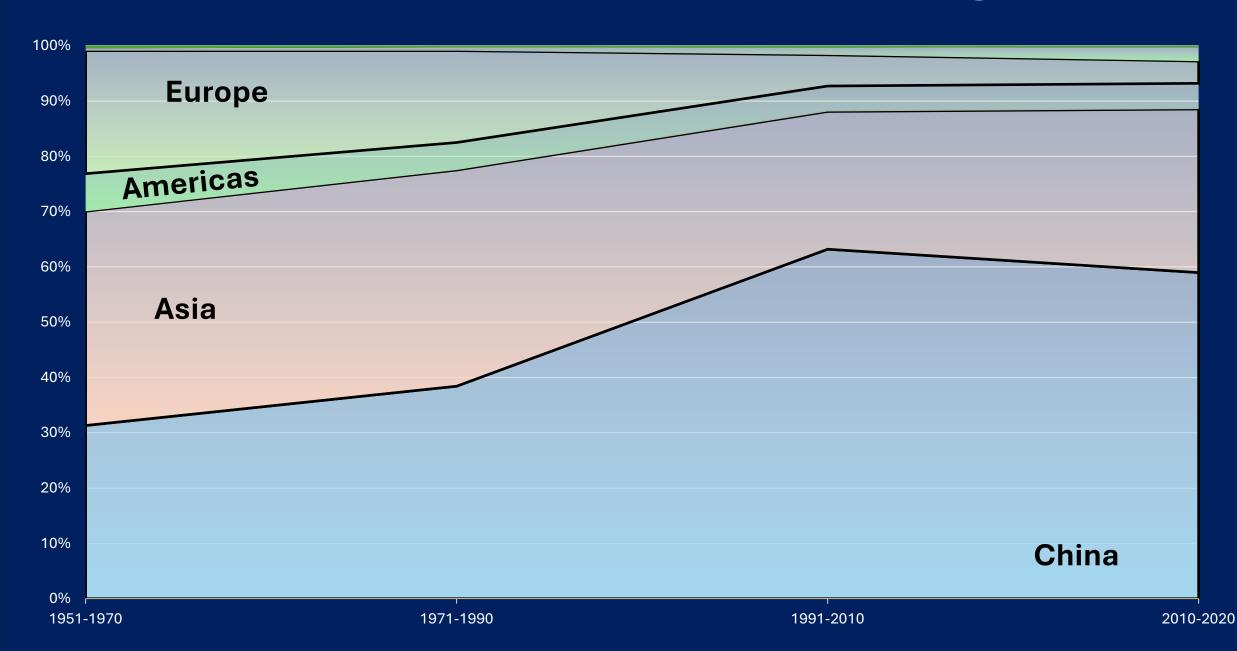




Fisheries Production by Region



Aquaculture Production by Region



Main Aquaculture Producers



56.4%



6.1%



10.3%



5.2%

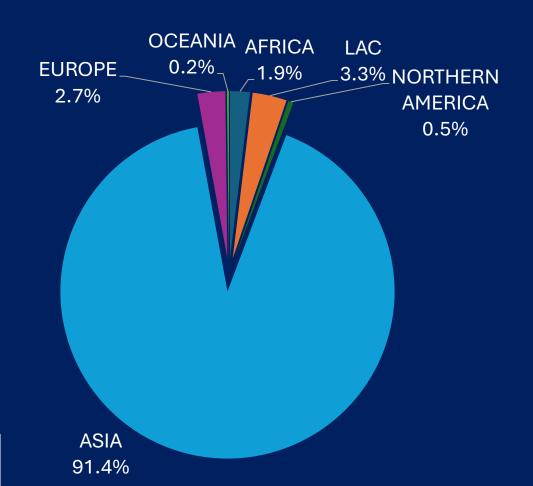


AQUACULTURE HAS THE POTENTIAL TO MEET THE GROWING DEMAND FOR AQUATIC FOODS



WORLD AQUACULTURE PRODUCTION IN 2022 130.9 MT (94.4MT ANIMALS), A NEW RECORD

AQUACULTURE DEVELOPMENT

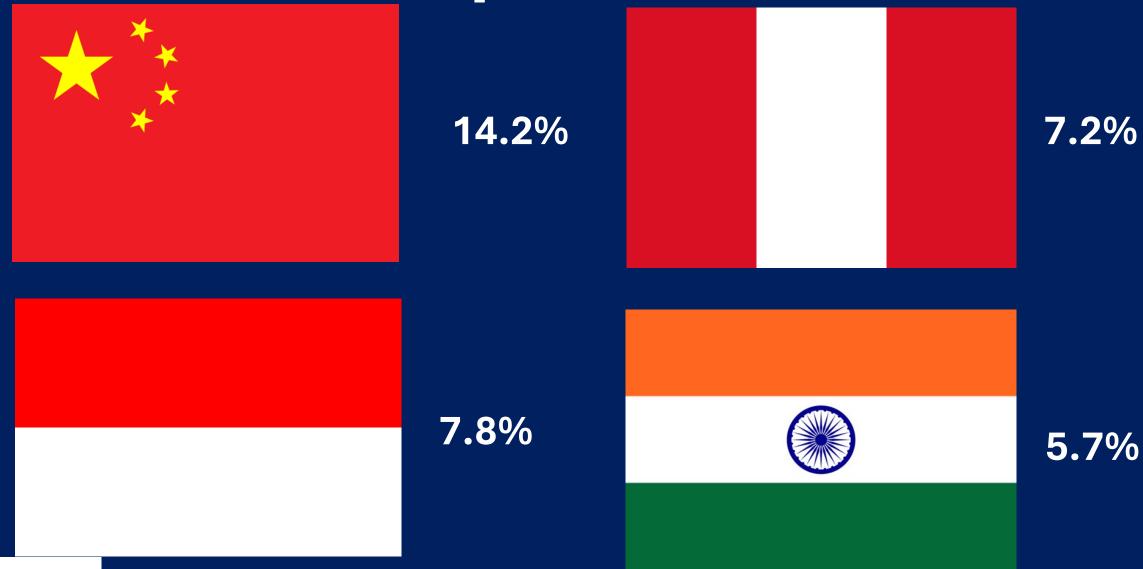


Growth 2000-2022 (%)

Africa	8.1 %
Latin America	
and the	
Caribbean	7.6 %
North America	0.5 %
Asia	5.2 %
Europe	2.5 %
Oceania	2.7 %
World	5.2 %



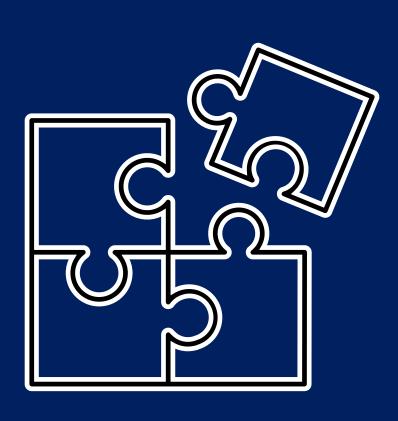
Main Capture Producers







Interaction



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What are the most internationally traded species?

Salmon, Trouts and Smells

Tunas, bonitos 18% and billfishes

Shrimps and Prawns

Cods, Hakes and Haddocks 10%



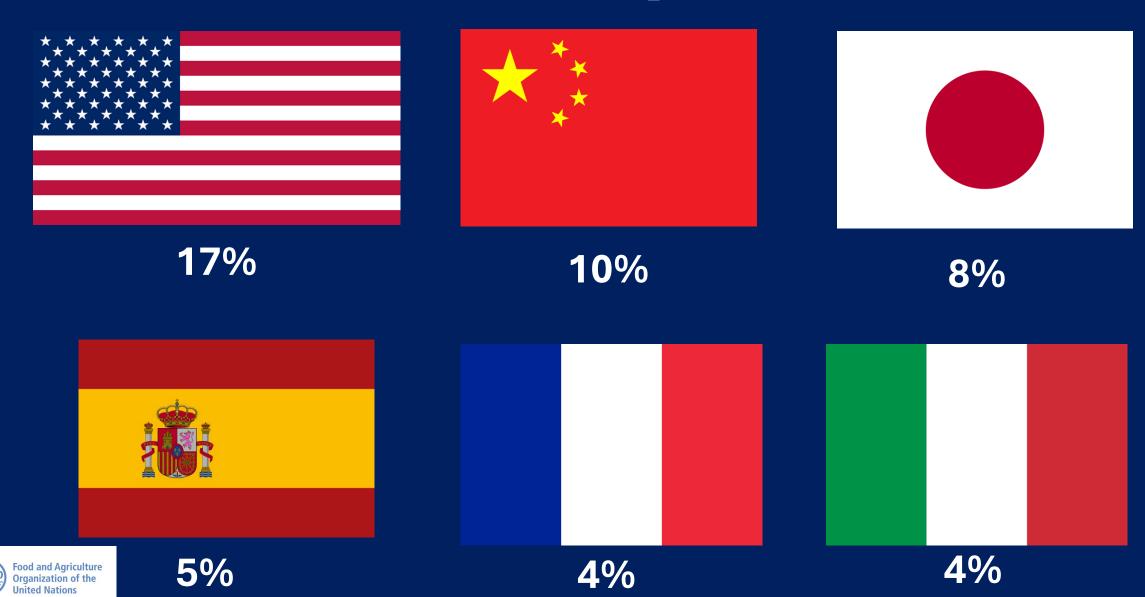
Main Exporters

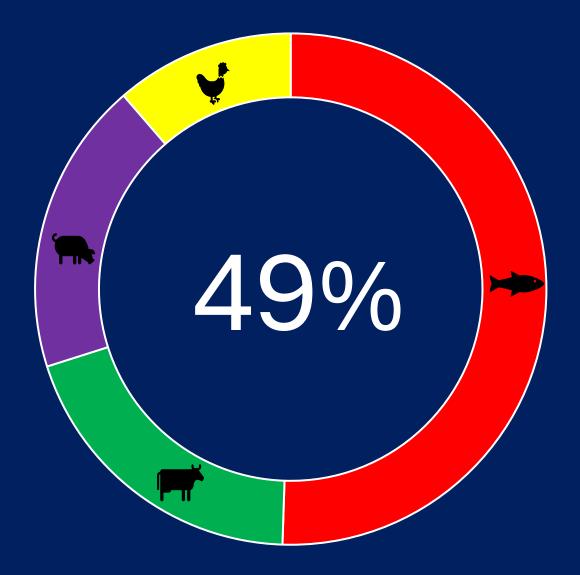






Main Importers





Global Exports (USD)

Aquatic Products and Other Animals



Simplified Value Chain Fisheries and Aquaculture

Production (pre-harvest)
COUNTRY A

Production (harvesting)

COUNTRY B

Transportation

Processing

COUNTRY C

Transportation

Distribution COUNTRY D

Consumption

COUNTRY D

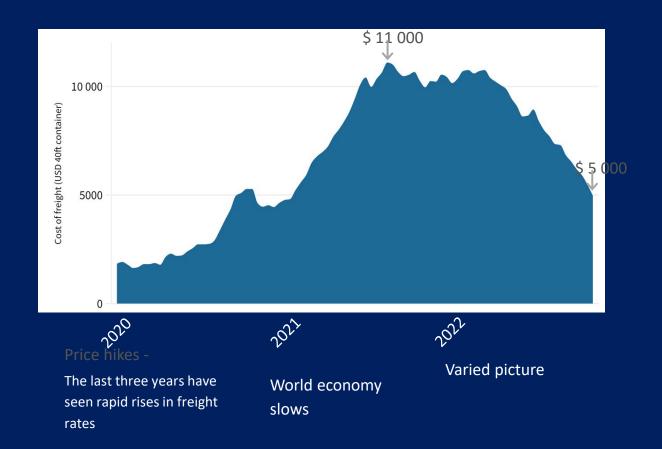


RECENT EXAMPLES OF MARKET DISRUPTIONS

COVID-19

Freight Costs

Changes in consumer preferences





"In every crisis lies the seed of opportunity"

Production

Short cycles can be easier to respond to changes

Markets

- Expansion to alternative markets
- Local AND international
- New product packaging opportunities

Demand

- Healthier food
- Role of Millennials and Generation-X
- Growing import needs by traditional markets
- Home cooking
- HORECA and final consumers



Some FAO instruments in support of sustainable production and trade



Instruments

Code of Conduct for Responsible Fisheries (CCRF) 1995

International Plan of **Action IPOA-IUU** 2001

Port State Measures Agreement (PSMA) 2009

International Plan of Action IPOA-Capacity 2009

Voluntary Guidelines for Small-Scale Fishers 2014

Voluntary Guidelines for Catch **Documentation Schemes (CDS)** 2017

Voluntary Guidelines for Transhipment 2022



Food and Agriculture Organization of the United Nations

Comprehensive Instrument

Basic Axiological Values

- Solid, sustainable, precautionary and inclusive actions
- Shared responsibilities
- Holistic approach
- Good source of guidance for the main pillars of WTO Fisheries Subsidies negotiation process

Main Covered Areas

- Fisheries management
 - Overfishing
- Small-Scale Fishers
 - Specific approach
- Post-Harvest Issues

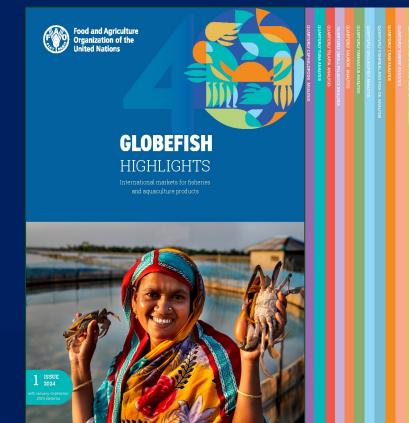
Information! Information! Information!

GLOBEFISH HIGHLIGHTS

 Comprehensive quarterly update on market trends for 13 major commodities

Trade date and price information from multiple

sources





EUROPEAN FISH PRICE REPORT

- Monthly price report
- Covers some 700 prices of different fish products traded in Europe directly from producers and suppliers.

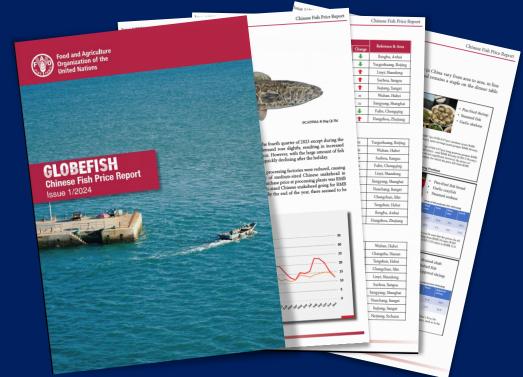




CHINESE FISH PRICE REPORT

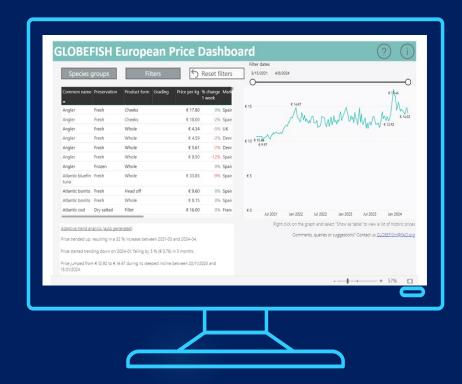
- Quarterly report analyzing overarching market and price trends in China
- Concise overview of industry developments and policy modifications





GLOBEFISH PRICE DASHBOARD

- user-friendly interface that displays the prices of fisheries and aquaculture products in Europe
- dynamic instrument for data monitoring and information dissemination to end users





HS Codes for fisheries and aquaculture products



Second edition 2022

Full description of fisheries and aquaculture products

		Freshwater o
03011	0301.	Freshwater ornamental fish, live
g	0301.9	Ornamental fish, live: goods if
	0301.9	
		County Butta, Oncorhamchus, and Comamental fish
		aguabonita, Oncorhanchas mystss, Oncorhanchas alvala
_		chryspaneters and states great, Oncortumeters clark, Oncortumeters
	0301.9	aguatonia uruta. Oncorhynchus mykiss, Oncorhynchus clarki, Oncorhynchus aguatonia. Oncorhynchus gilae, Oncorhynchus apache and Oncorhynchus echysogaster), liwe; exclusing ornamental Eels (Anguitta spp.), liwe; exclusing
	0301.93	Cos (Anguilla spp.), ilun: qual-tilia
		Carp (Const
		Carp (Cyprinus spp., Carassius spp., Ctenophayngodon idelitis, Hypophthatrichthys spp., Cirrianus spp., Mylyphayngodon piceus, Catta catta, excluding ornamental.
		crenopharmachthys spp. Circhiana spp. Crenopharmachthys
		Labeo spp., Osteochius - Carrinus spp., Mylopharynood idellus,
		excluding creek, Catte catte
	0301.94	Astronomy Ornamental
		Clenopharyngodon ideltrs. Laber spp., Osteochius hasseli, Leptobarbus hoeveni, Megalobrama spp.), live; excluding ornamental Adlamic and Pacific bluefin was C
		excluding grown torses (Thungue the
	0301.95	Southern South State of the Sout
	0301.99	Southern bluefin tunas (Thereas), Bye;
	302.00	Hish, live: exclude a control of the
		southern bluefin tunas, carp, eds. Pacific bluefin tunas, carp, eds. Pacific bluefin tunas, Trour (Sathro truta, Oncorhynchus med also excluding ornamental acustomic formation of the control of the c
	0302.11	Touche tunas, trout and at least, earp, eels, Pacific bisefin s
		rous (Salmo trutta, Opposit, and also excluding organization)
		aguabonia O
		chrysogaster), fresh or chilled; excluding filters and other metal (whether or not pacific salmon (Oncorhymchus abache and Oncorhymchus minced), livers, roes, milt, fins, heads, tails, maws and other metal (whether or not Pacific salmon (Oncorhymchus)
		circysogaster), fresh or chilled. O'cornynchus apache and
	0011	minced) have an Oncorporation
	0302.13	minced), livers, roes, milt, fins, heads, talls, maws and other meat (whether or not Pacific salmon (Occorhynchus nerka, Oncorhynchus nerka, Onco
		salmon (Oncorhynchus and other adible attention of not
		Pacific salmot, roes, milt, fins, heads, talls, make and other meat (whether or not Pacific salmot, roes, milt, fins, heads, talls, makes and other edible offal keta, Oncorhynchus ischawysicha, Oncorhynchus gorbuscha, Oncorhynchus and Oncorhynchus ischawysicha, Oncorhynchus kstatch, or and Oncorhynchus ischawysicha.
		and Oncorbuncture of the Control of
		Thornes thornes a strain of the strain of th

hus ischawytscha, Oncorhynchus kisutch, Oncorhynchus masou and Concertyrichus rhodurus), fresh or chilled; excluding filess and other meat (whether or not minced), livers, roes, mit, fins, heads, talls, maws and other edible

ofial
Ofial
Adardic salmon (Salmo salar) and Danube salmon (Aucho hucho), fresh or childed.

Assert salmon (Salmo salar) and Danube salmon (Aucho hucho), fresh or childed. 0302.14 excluding filets and other meat (whether or not minced), livers, roes, milt, fins,

Salmonidae, fresh or chilled; excluding Atlantic salmon, Danube salmon, Pacific salmon, tout, and also excluding filets and other meet (whether or not minced). livers, roes, milt, fins, heads, tails, maws and other edible offal

Halbut (Reinhardius hippoglossoldes, Hippoglossus hippoglossus, Hippoglossus stenolophi), fresh or chilled; excluding filets and other meat (whether or not minced, fivers, nees, milt, fins, heads, talls, mave and other artible offal Plato (Plauronecies planessa), fresh or chilled; excluding fillets and other meat

(whether or not minced), livers, roes, milt, first, heads, tails, makes and other edible

0302.23	Sole (Solea son) for i
	Sole (Solea spp.), fresh or chilled; excluding fillets and other meat (whether minced), livers, roes, milt, first, heads, tails, maves and other edible offal Turbots (Paeda maxima), fresh or chilled; excluding.
0302.24	Turbots (Psetta maxiss), fins, heads, tails, maws and est
0202.00	Turbots (Pseta maxima), fresh or chilled; excluding filters and other edible offall or not minoed), livers, pros.

or not minced), livers, roes, milt, fins, heads, talks, maws and other edible offer Fist fish (Pleuronecitise, Bothidse, Cynoglossidse, Soleidse, Sophidse) rea ser preuronecesse, possusse, Cynogrossusse, Sonesse, Scuprenser and Citharidae), fresh or chilled; excluding halbut, place, sole, turbots, and excluding filets and other meat (whether or not minced), livers, roes, mit, heads, tails, maws and other edible offal

Albacore or longfinned tunas (Thunnus alalunga), fresh or chilled; excluding i and other meat (whether or not minced), livers, roes, mik, fins, heads, tails, n and other edible offal

Yellowfin tunas (*Thunnus* albacares), fresh or chilled; excluding fillets and (meat (whether or not minoed), livers, roes, milt, fins, heads, tails, maws and o

edible offal

Skipjack or stripe-belled bonito (Euthymnus (Katsuwonus) pelamis), free chiled; excluding filets and other meet (whether or not minced), livers, roes, mile;

Bigeye tunas (Thunnus obesus), fresh or chilled; excluding fillets and other meat

(whether or not minoed), livers, roes, mit, firs, heads, tails, maws and other edible

unes
Atlantic and Pacific bluefin tunas (Thunnus thyranus, Thunnus orientalis), fresh or chilled; excluding fillets and other meat (whether or not minced), livers, roes, milt, fins, heads, tails, maws and other edible offal

une, research, cares, manus and other octobe onto:

Southern bluefin tunas (Thurnus maccoyst), fresh or chilled; excluding fillets and cheer read (whether or not minoed), livers, roes, milt, fins, heads, talk, maws and

Tunas (of the genus Thunnus), fresh or chilled; excluding albacore tunas, Atlantic bluefin tunas, bigeye tunas, longfinned tunas, Pacific bluefin tunas, skiplack, stripe-belied bonko, southern bluefin tunas, yelkwifin tunas, and also excluding filters and other meat (whether or not minced), livers, roes, milt, fins, heads, tails.

Herrings (Clupea havengus, Clupea patlassi), fresh or chilled; excluding fillets and rearrage (unique nevergius, uniques pressure, treas or universe, economis seens other meat (whether or not minoed), livers, roes, milt, fins, heads, talls, makes and

Oncorhynchus gorbuscha, Oncorhynchus keta, Oncorhynchus tschawytscha, Oncorhynchus kisutch, Oncorhynchus masou, Oncorhynchus rhodurus



FAO NAMES: Eng Pink (= humpback) salmon Esp Salmón rosado

MAIN CHARACTERISTICS:

A. Elongate black spots dorsally, on upper flanks, on adipose fin and on both lobes of caudal fin (oval-shaped, some of them big as eye); B. colour steel blue, green blue dorsally, silvery on flanks, white-silvery ventrally (marine specimens).

DISTRIBUTION: Anadromous species. Pacific and tributary rivers: California to the Strait of Bering and the Sea of Japan. Arctic Ocean: from the Strait of Bering to the Mackenzie River and the Kola Peninsula (the White Sea). Europe: introduced several times in the White Sea and in the Sea of Barents.



FAO NAMES: Eng Chum (= Keta= Dog) selmon

MAIN CHARACTERISTICS:

A. Absence of evident black spots on back, flanks and fins; back and flanks may display blackish dots; margins of caudal, anal and pectoral fins display black shadings; B. colour steel blue dorsally and on upper portion of head; silvery on flanks, white-silvery on belly (marine specimens).

DISTRIBUTION: Anadremous species. North Pacific and tributary rivers: from Sacromento River (United States) to the Bering Sea and the Ohotsk Sea, southwards to the Korean Pensinsula and the Sea of Japan, Arctic Ocean: from Mackenzie River to the Lena River. Introduced in New Zealand and the Islamic Republic of Iran.



Oncorhynchus kisutch (Walbaum, 1792)

SIZE: Max L 108 cm

FAO NAMES: Eng Coho (= silver) salmon Esp Salmón plateado

MAIN CHARACTERISTICS:

A. Rounded black spots dorsally, on upper flanks, on base of dorsal fin and on upper lobe of caudal fin (a few scattered spots); B. steel blue, with green highlights dorsally, bright silvery on flanks, white-silvery ventrally (marine specimens); white gums at the base of the teeth.

DISTRIBUTION: Anadromous species. Western Pacific and tributary rivers: from Chamalu Bay in Baja California (Mexico) to northwestern Alaska and from the northern Sea of Japan (Holdsaldo) to the Anadyr River. Europe: southern France.



FAO NAMES: Eng Masu (= cherry) salmon Esp Salmón japonés

MAIN CHARACTERISTICS:

A. Small dark spots dorsally and on upper flanks, on adipose fin and on proximal part of dorsal and caudal fins; B. colour steel blue dorsally, silvery on flanks, white-silvery ventrally

DISTRIBUTION: Northern Pacific and surrounding rivers. Present along the coasts of Japan and the Korean Pensinsula.

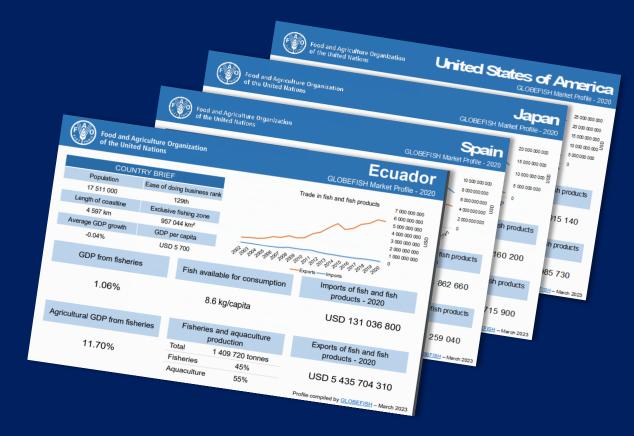


GLOBEFISH monitors the leading causes of border alerts and rejections across major markets.



GLOBEFISH MARKET PROFILES

- GLOBEFISH compiles and publishes Market Profiles based on nationally reported data or information published by international agencies.
- The profiles present a snapshot of the most up to date countries' fisheries profiles.



Resource Materials

https://linktr.ee/fishtrade



Sustainable Fish Trade For Today and Tomorrow

CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT



www.linkedin.com/in/mcdesouza



