



Fish Production Estimates and Trends, 2010-2011

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A business economist, Professor Tveterås is a business economist and works in the Department for Industrial Economics, Risk Management and Planning.

His research focuses particularly on aquaculture and seafood markets.

Scope of Analysis

- **Focus on internationally traded species:**
 - Typically imported to USA, Europe & Japan.
- **Production forecasts for 2009 for all chosen species:**
 - But for some species only major producer countries/regions.
- **Production forecast for 2010 for a majority of species.**



Species Included in Analysis

- Tilapia
- Salmon & Trout
 - Atlantic salmon
 - Coho salmon
 - Trout
- Catfish
 - Pangasius
 - Channel catfish
- Seabass & Bream
- Flatfishes
 - Flounders
 - Halibut
 - Turbot
- Barramundi
- Cobia
- Atlantic cod
- Bluefin tuna

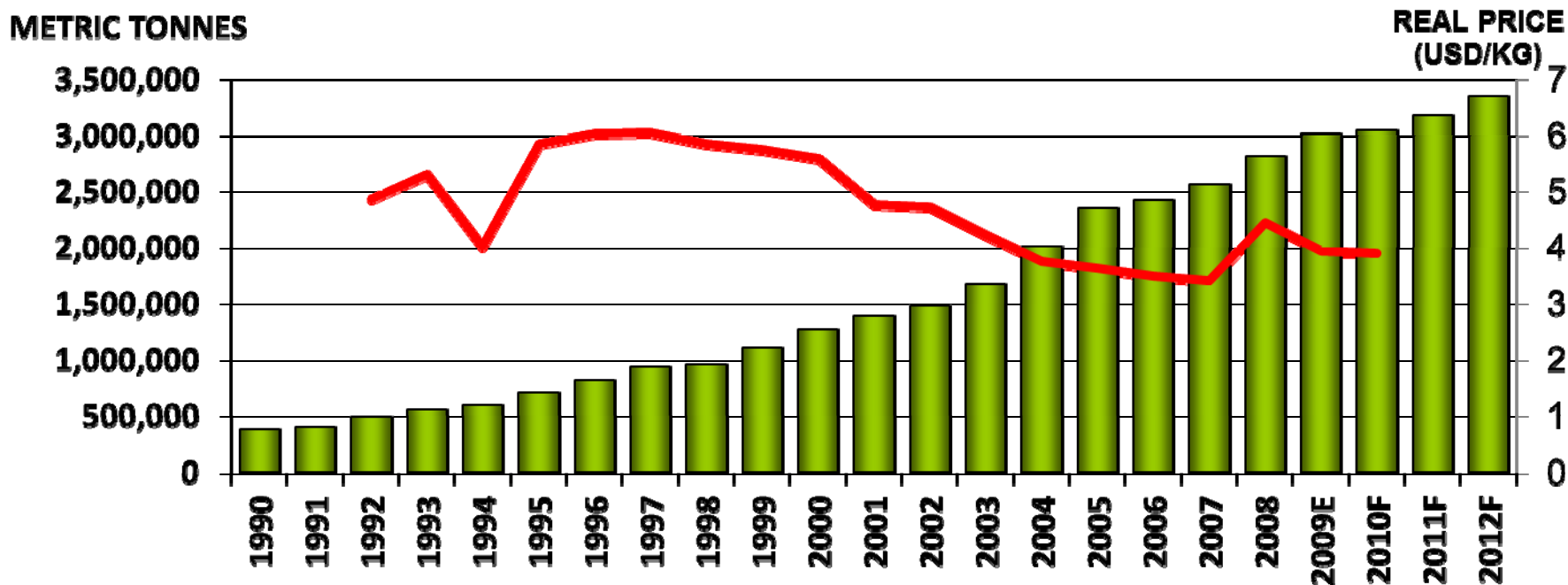




TILAPIA

Tilapia

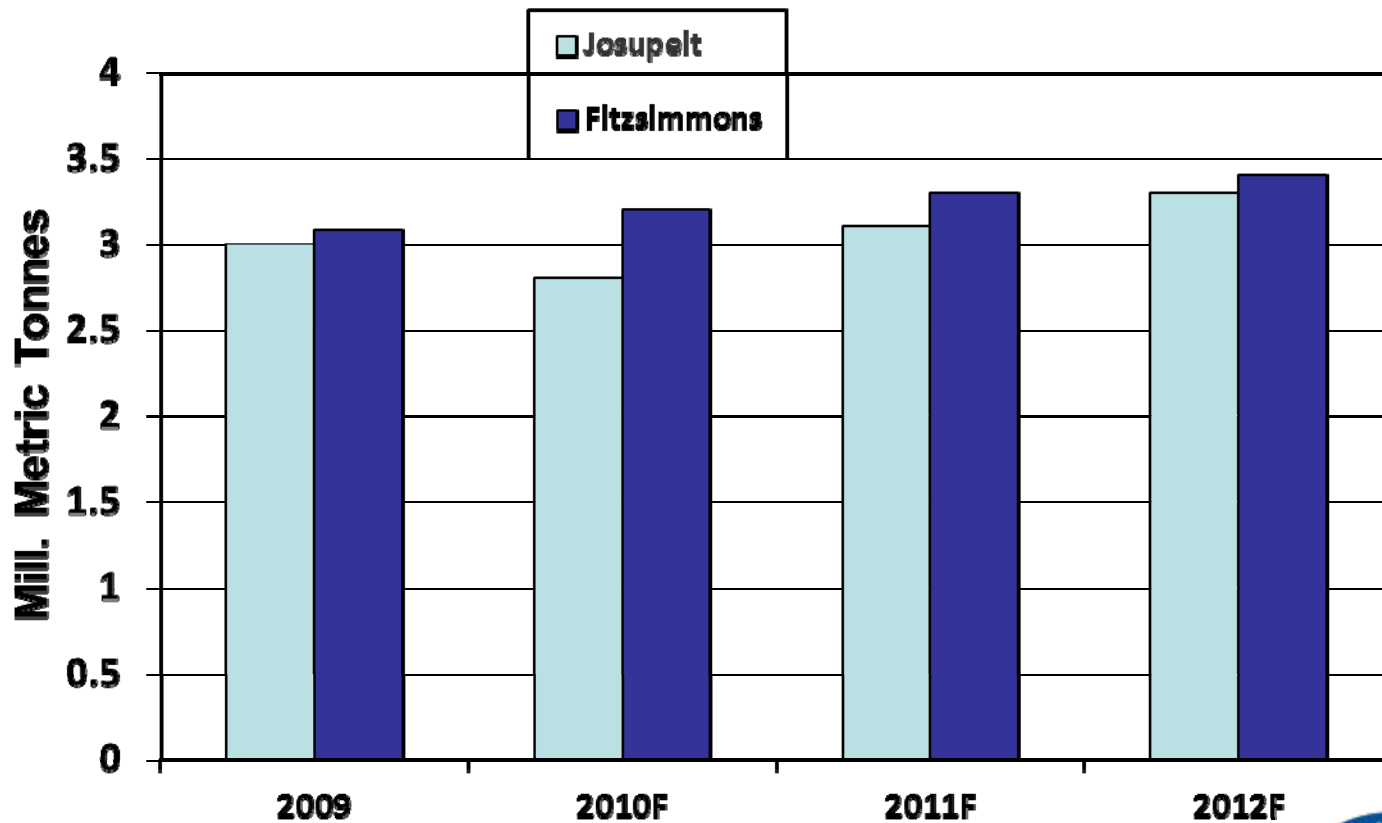
Global Aquaculture Production



Sources: 1990-2007: FAO and Kevin Fitzsimmons; 2009-2012: Average of Helga Josupeit and Kevin Fitzsimmons estimates; Prices: NMFS

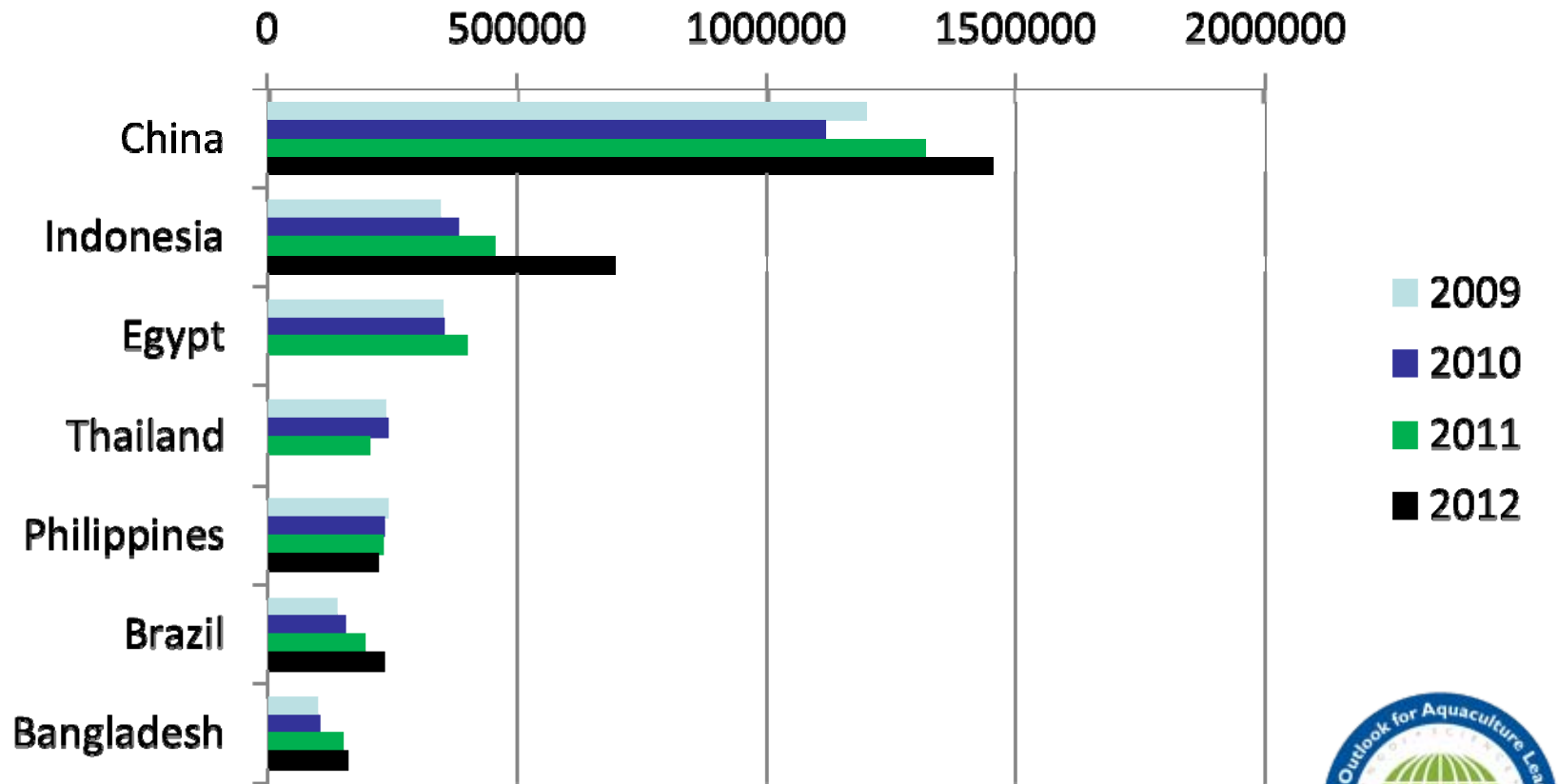
Tilapia

Global Aquaculture Production

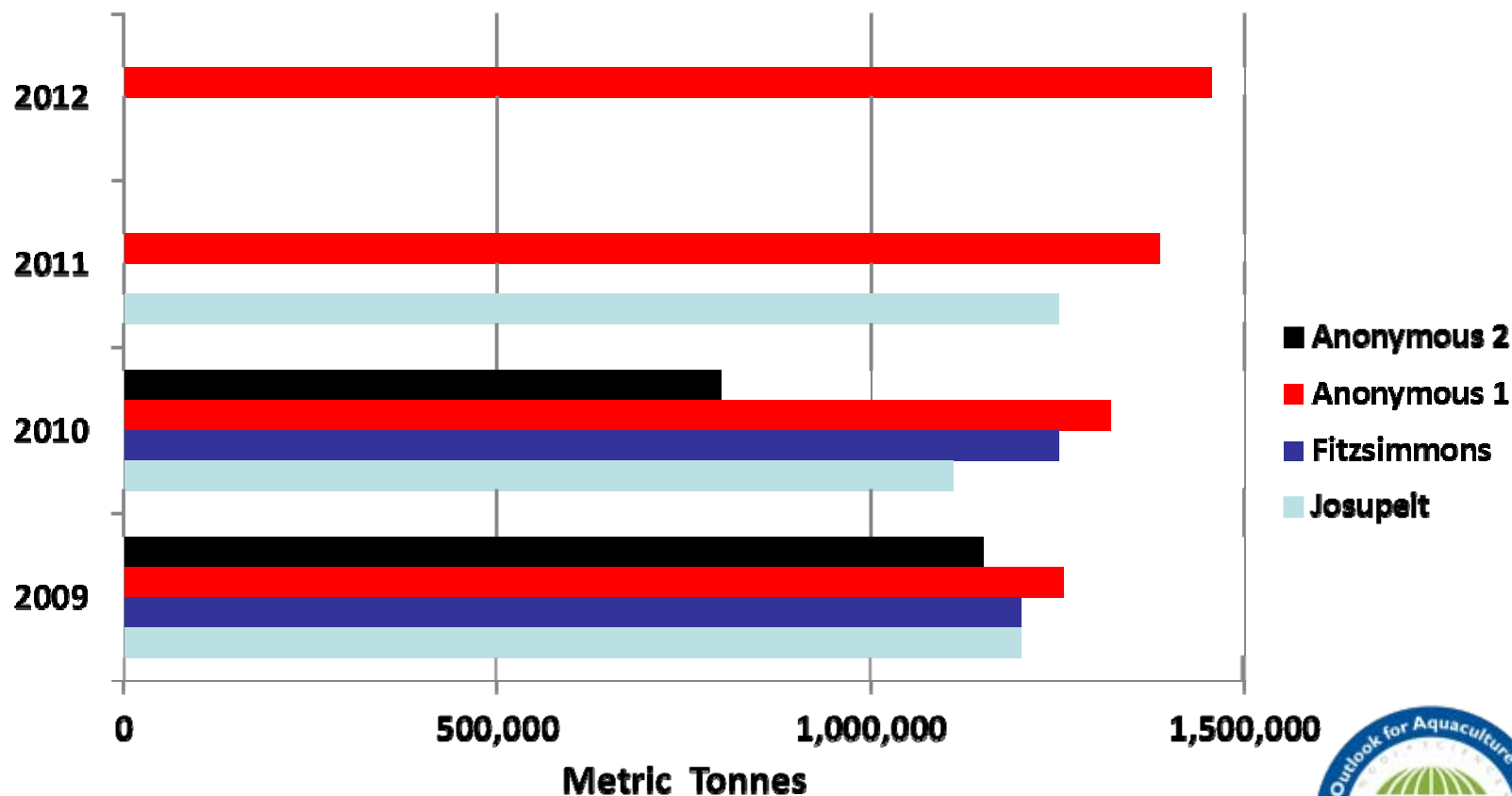


Tilapia

Production by Country

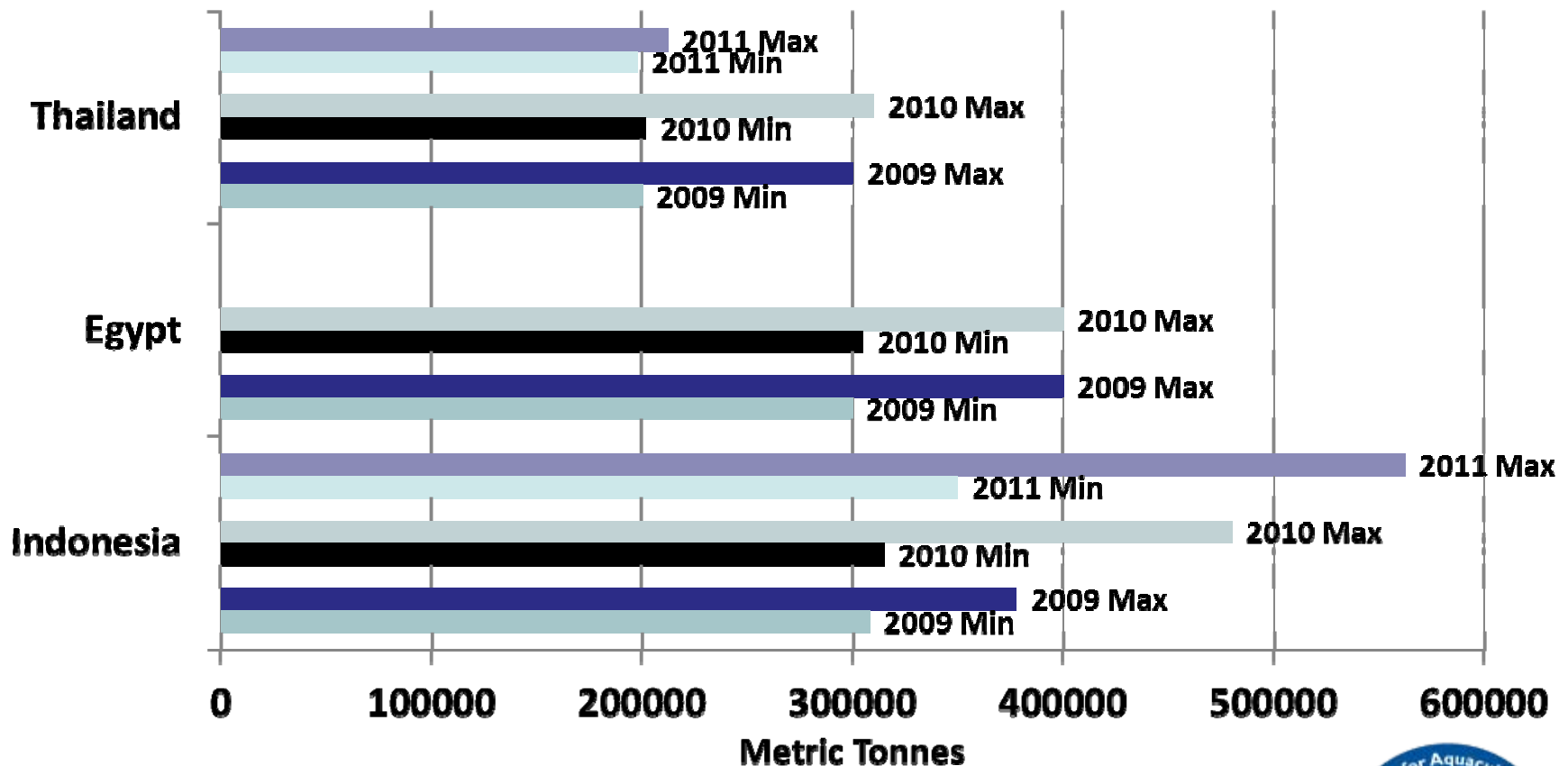


Tilapia production estimates China – high and low



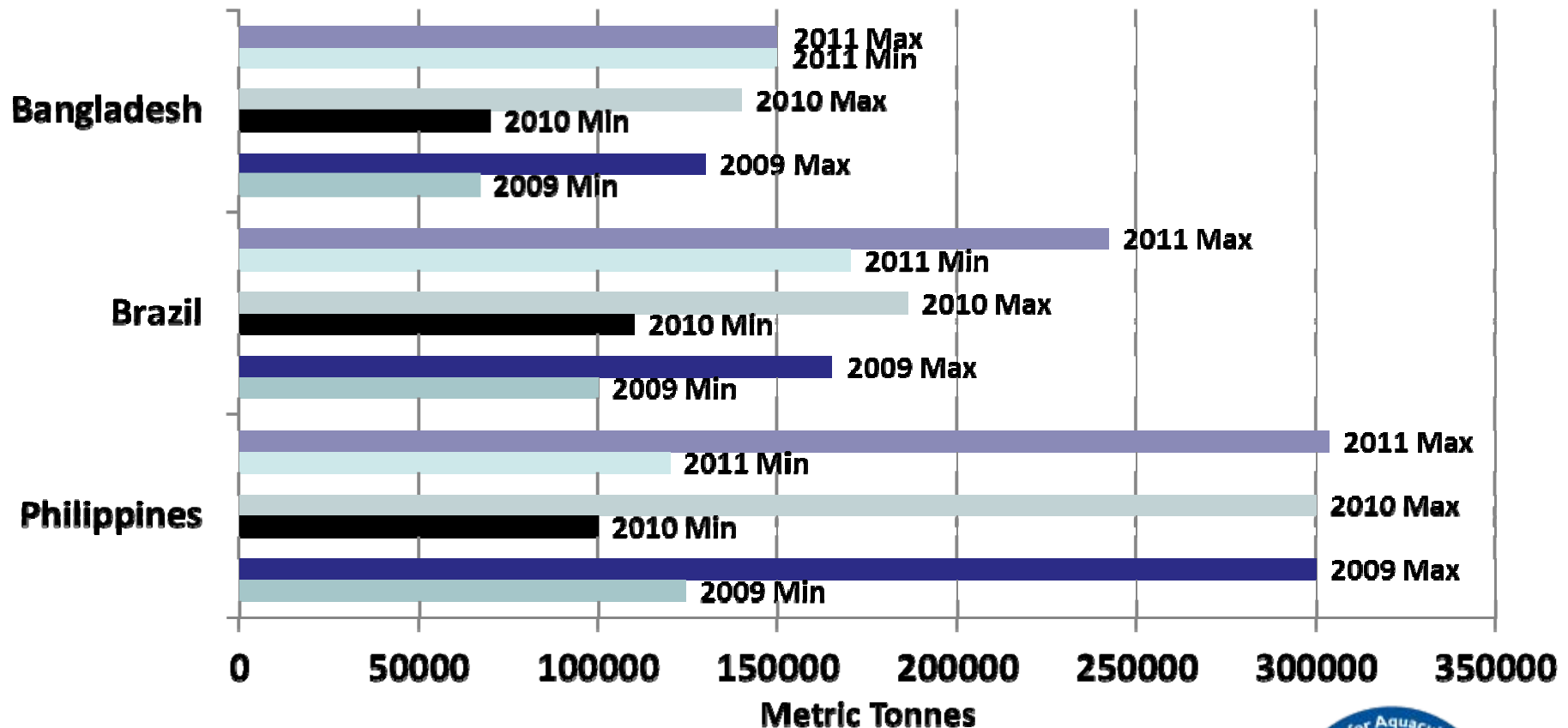
Tilapia production estimates large producers

Min and Max estimates from different sources



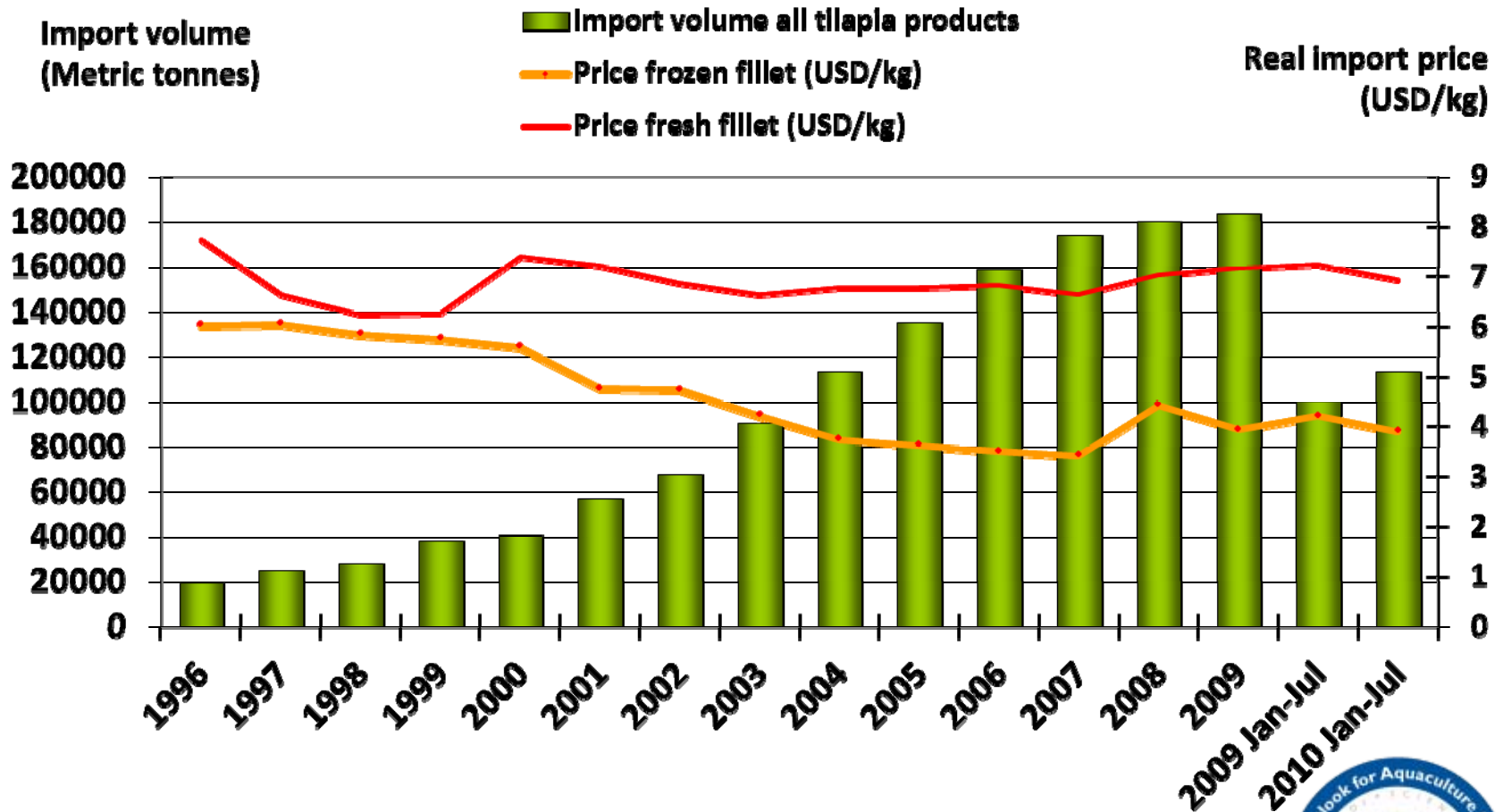
Tilapia production estimates large producers

Min and Max estimates from different sources



Tilapia

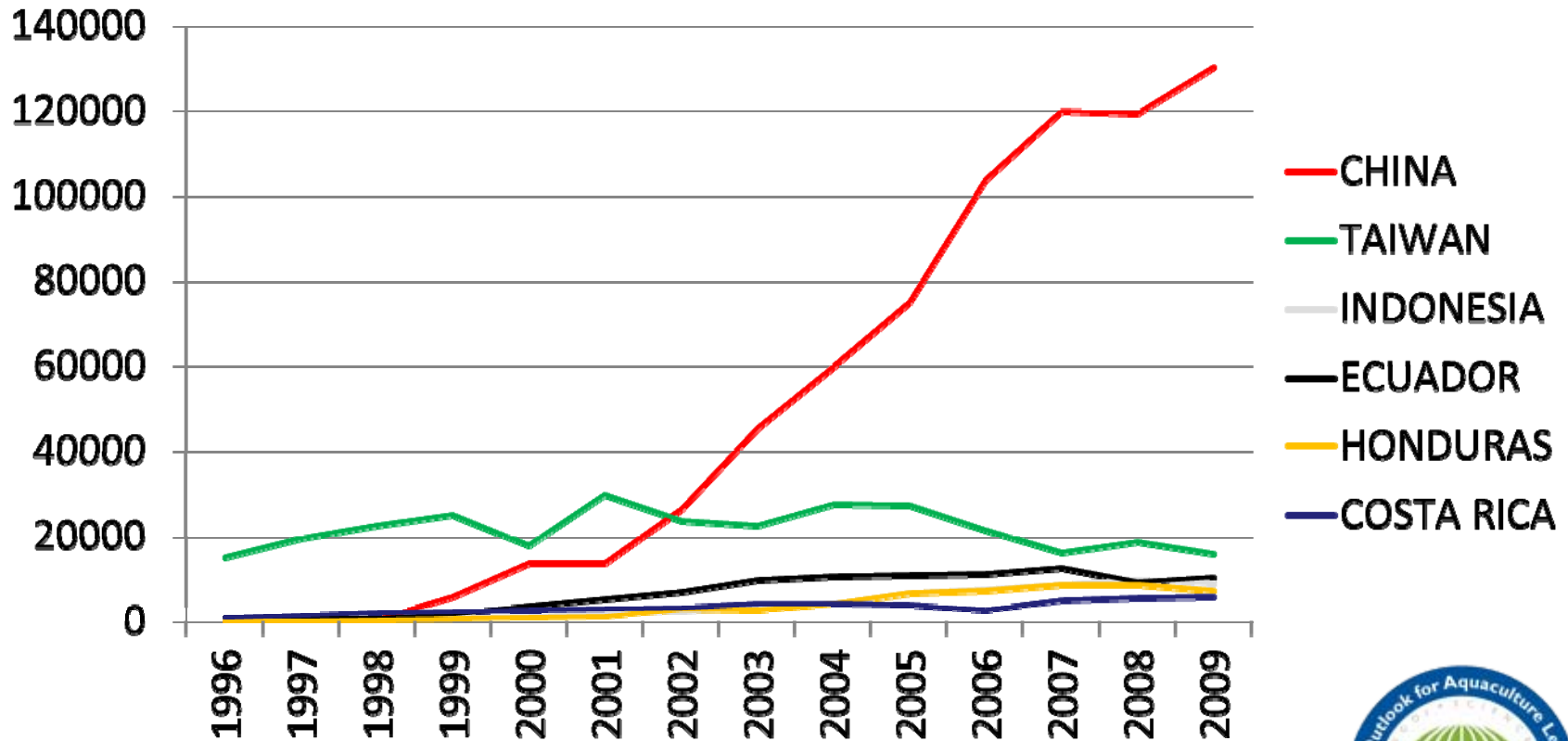
U.S. Import Volume & Real Import Price for Frozen Fillets



U.S. Imports Tilapia Products

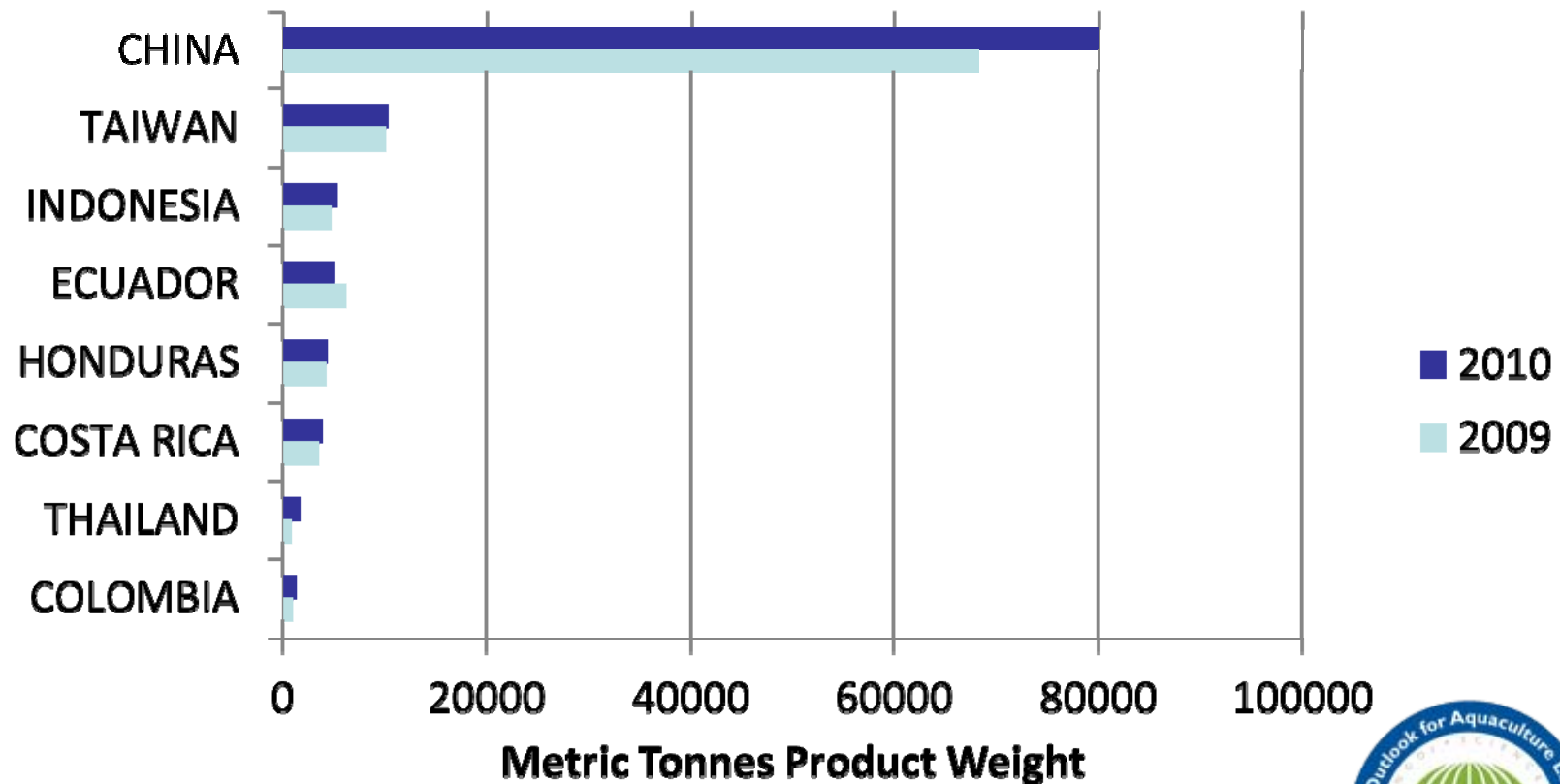
1996-2009

Metric Tonnes



Tilapia

US Imports: January - August

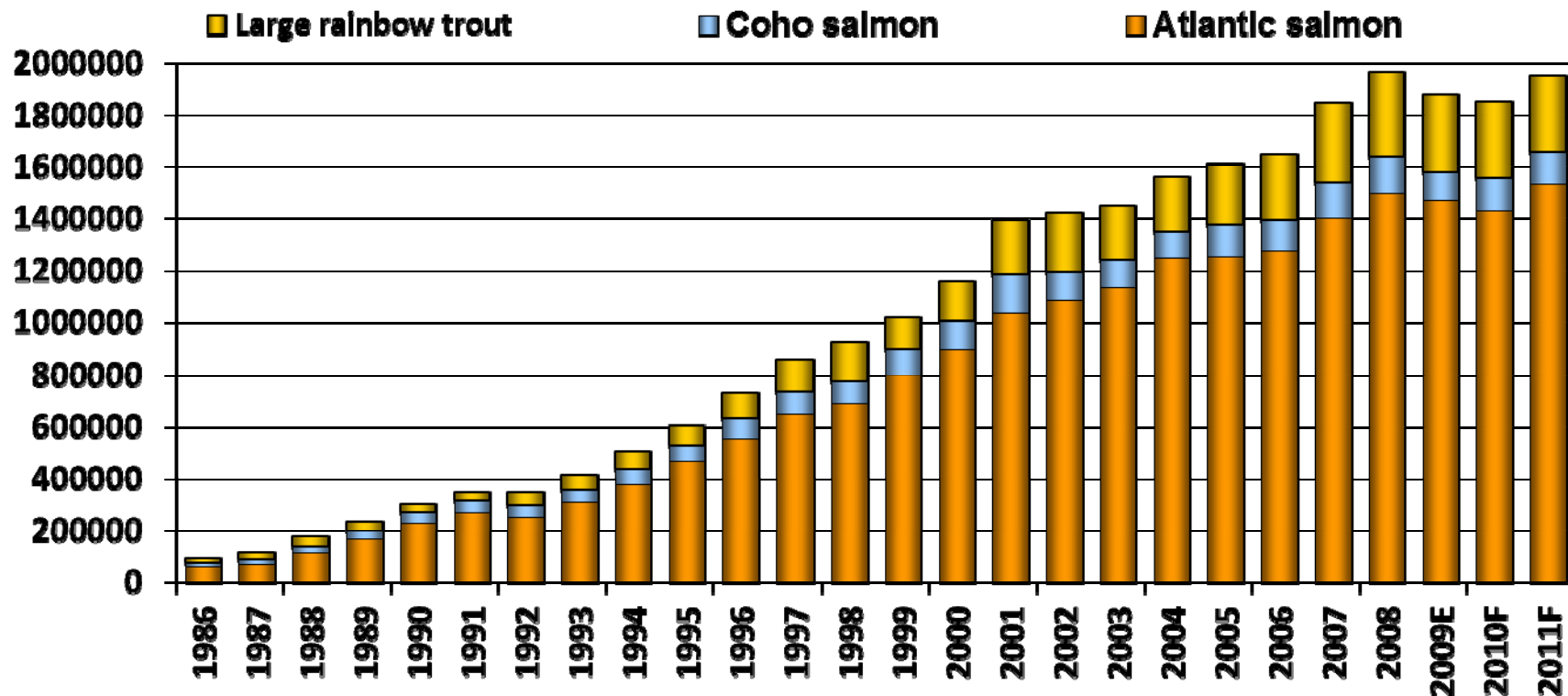


Salmonids



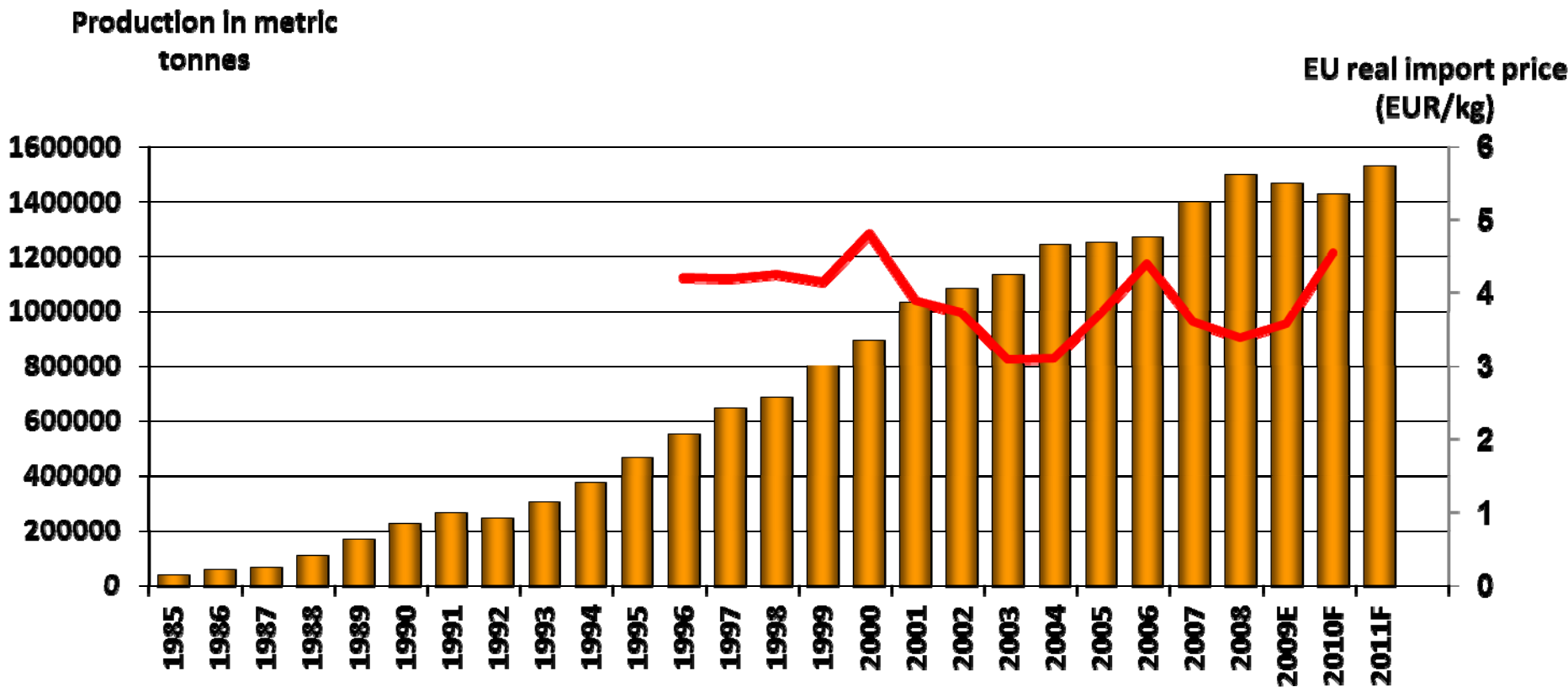
Atlantic & Coho Salmon & Rainbow Trout Total Production

Metric tonnes

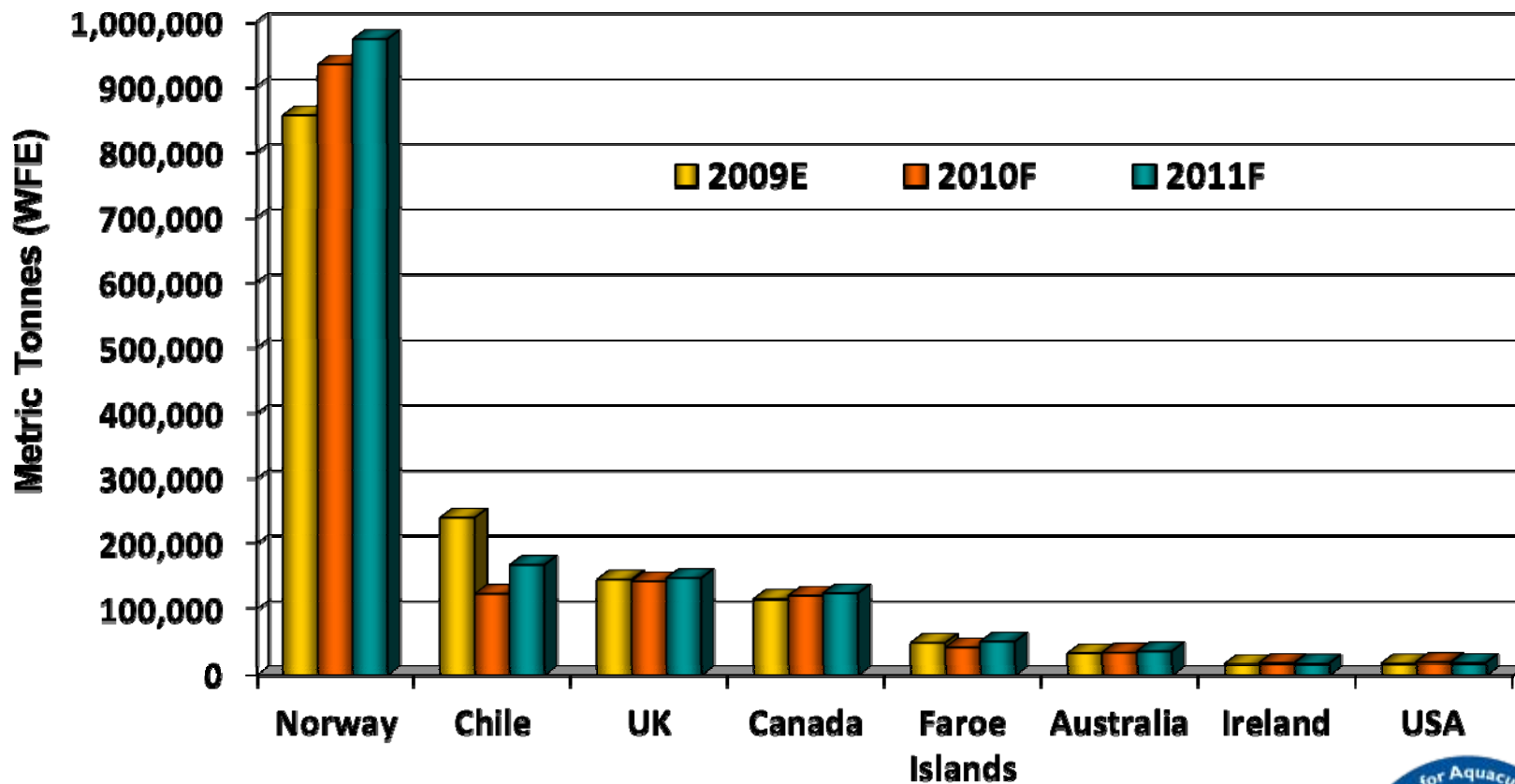


Atlantic Salmon

Production and EU real import price fresh gutted

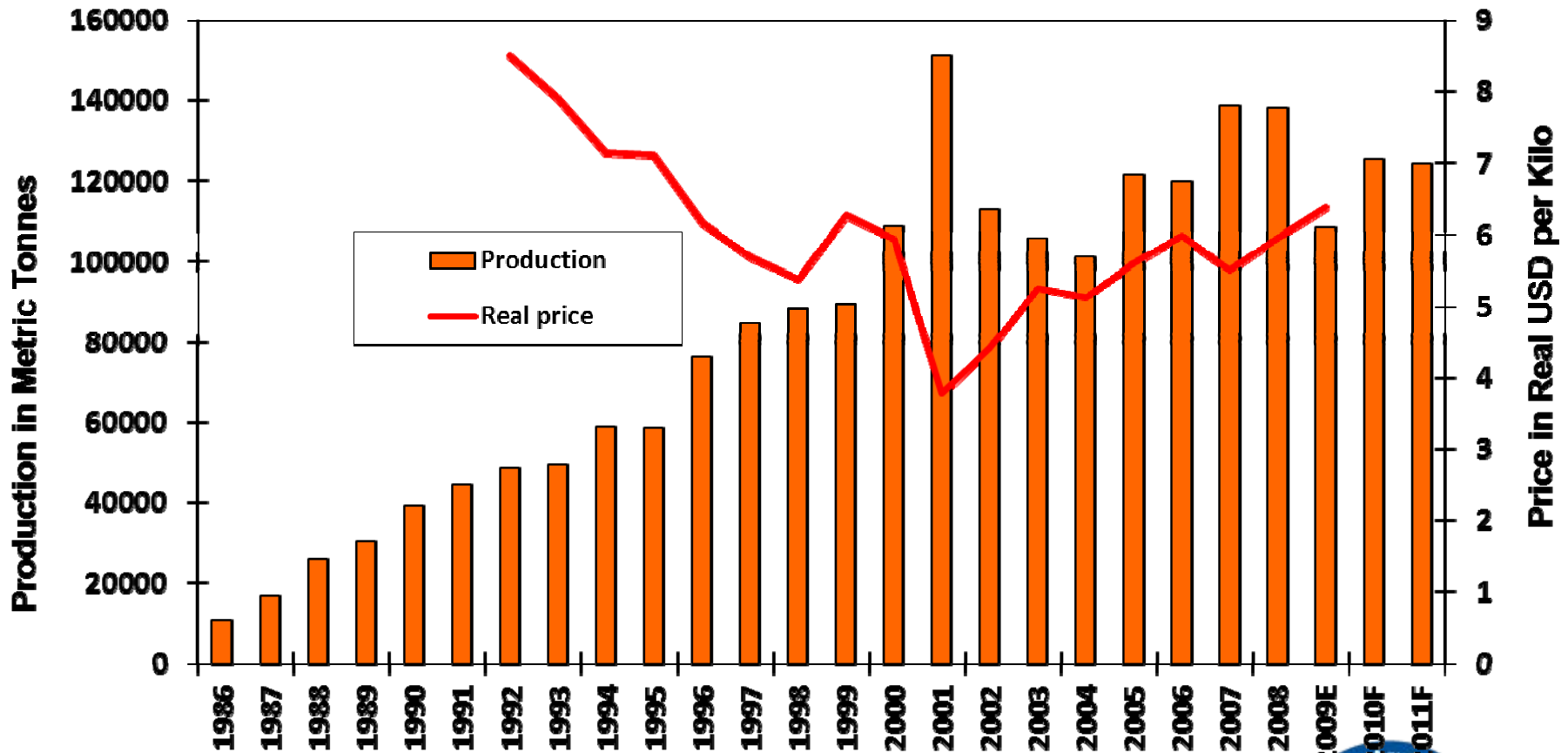


Farmed Atlantic Salmon Production



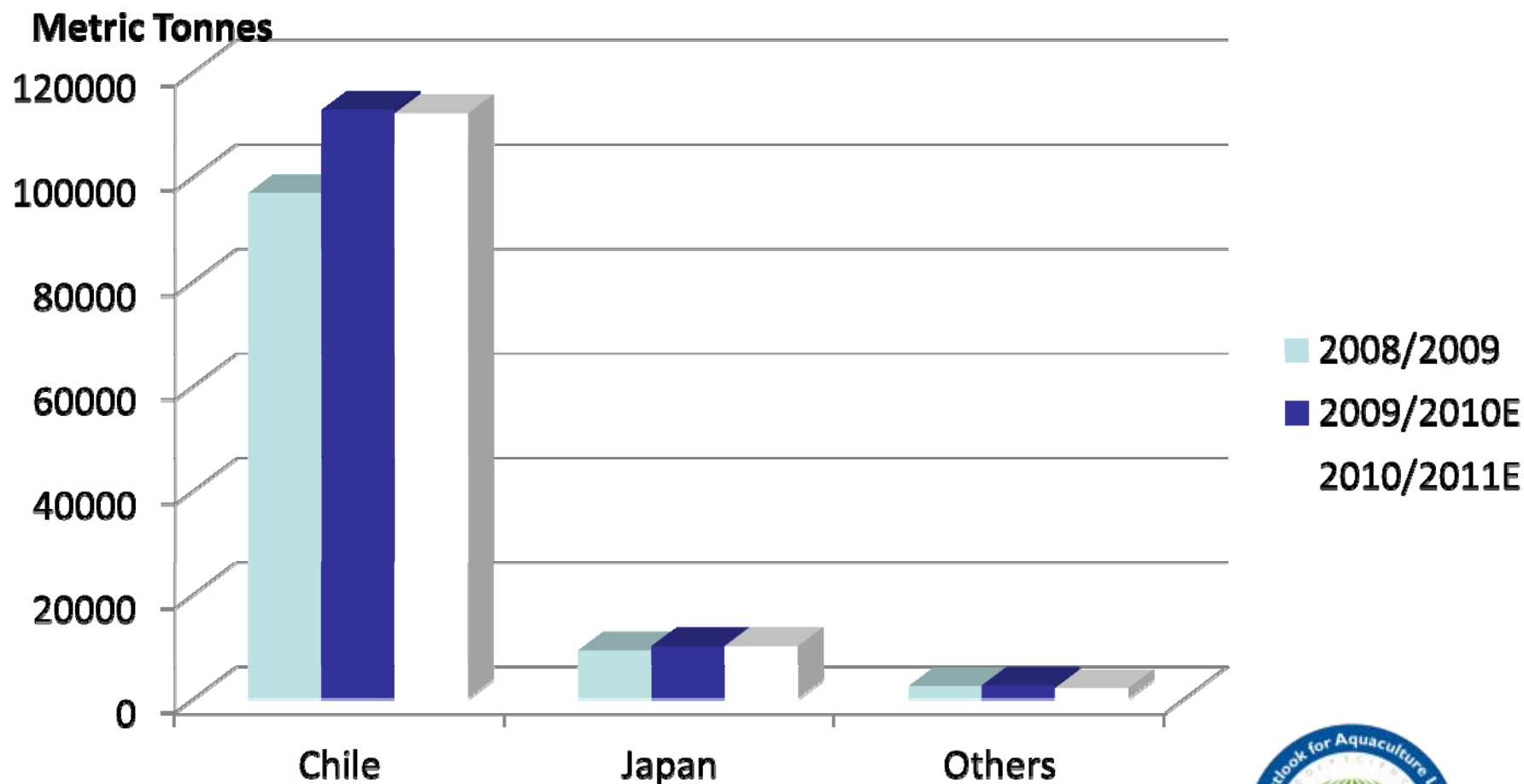
Coho Salmon

Total Production and Real Import Price on Fresh Farmed Canadian Coho to the USA



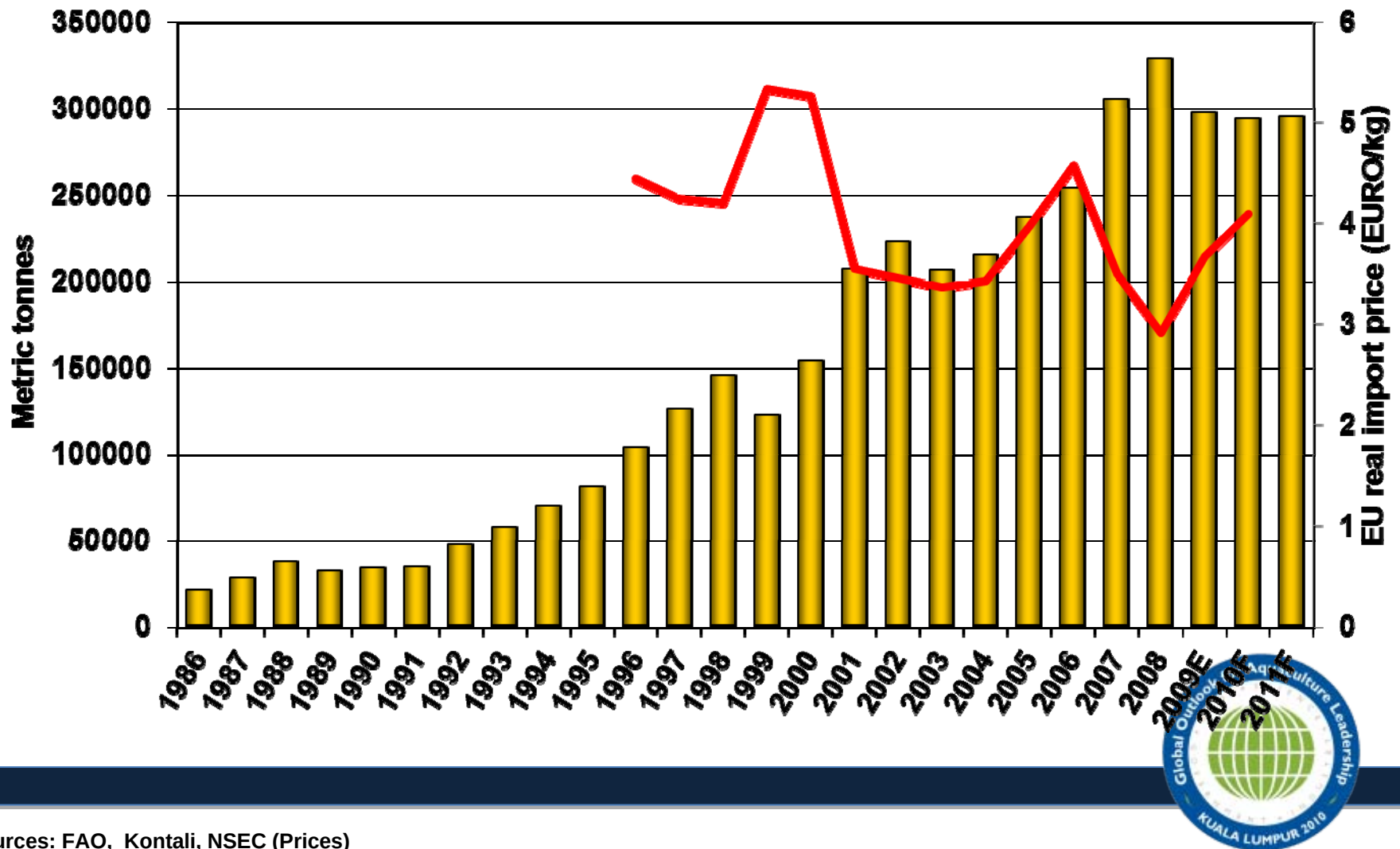
Coho Salmon

Farmed Production



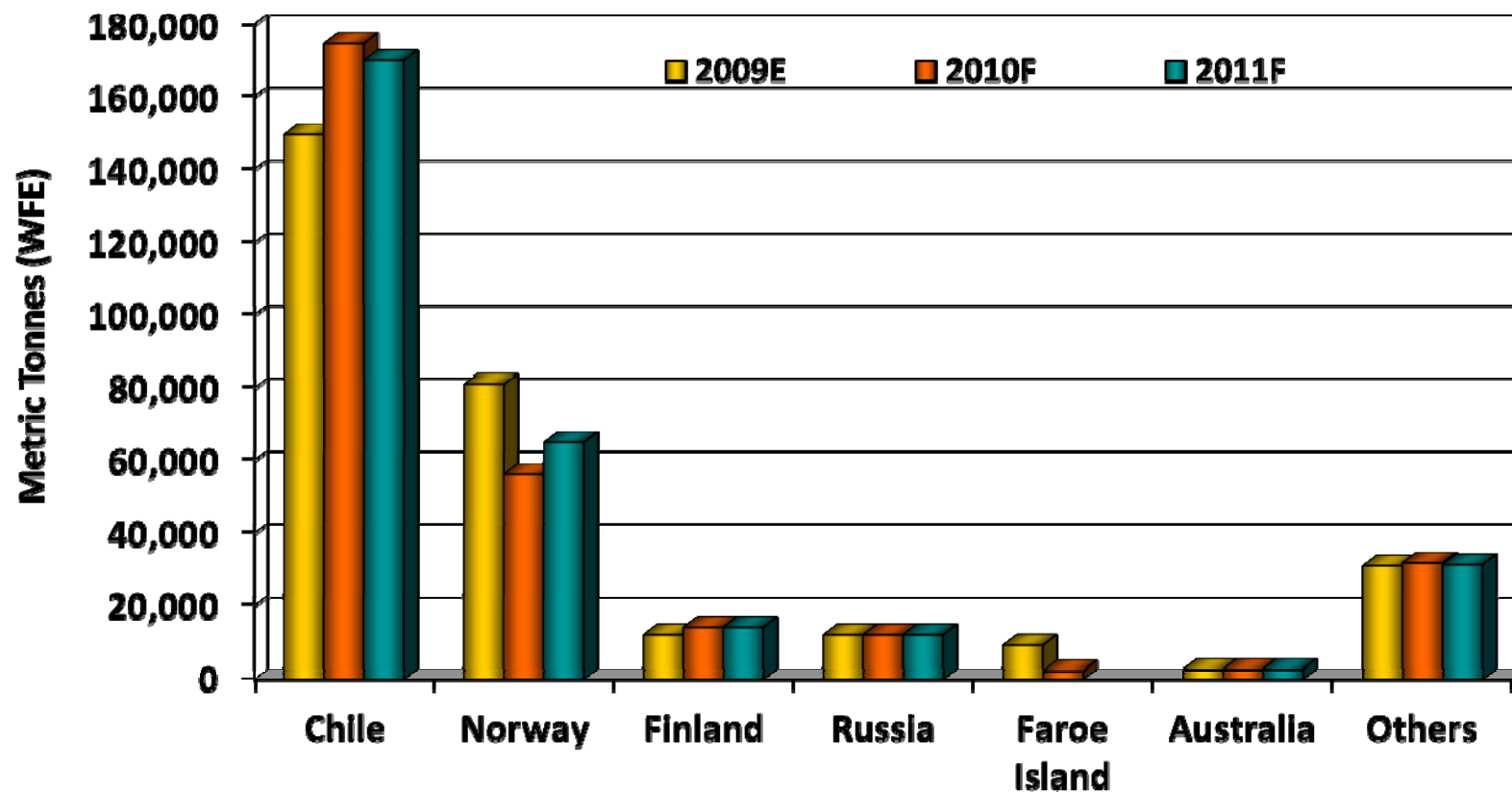
Rainbow Trout

Total Ocean Farmed Production and EU real import price fresh gutted



Rainbow Trout

Production

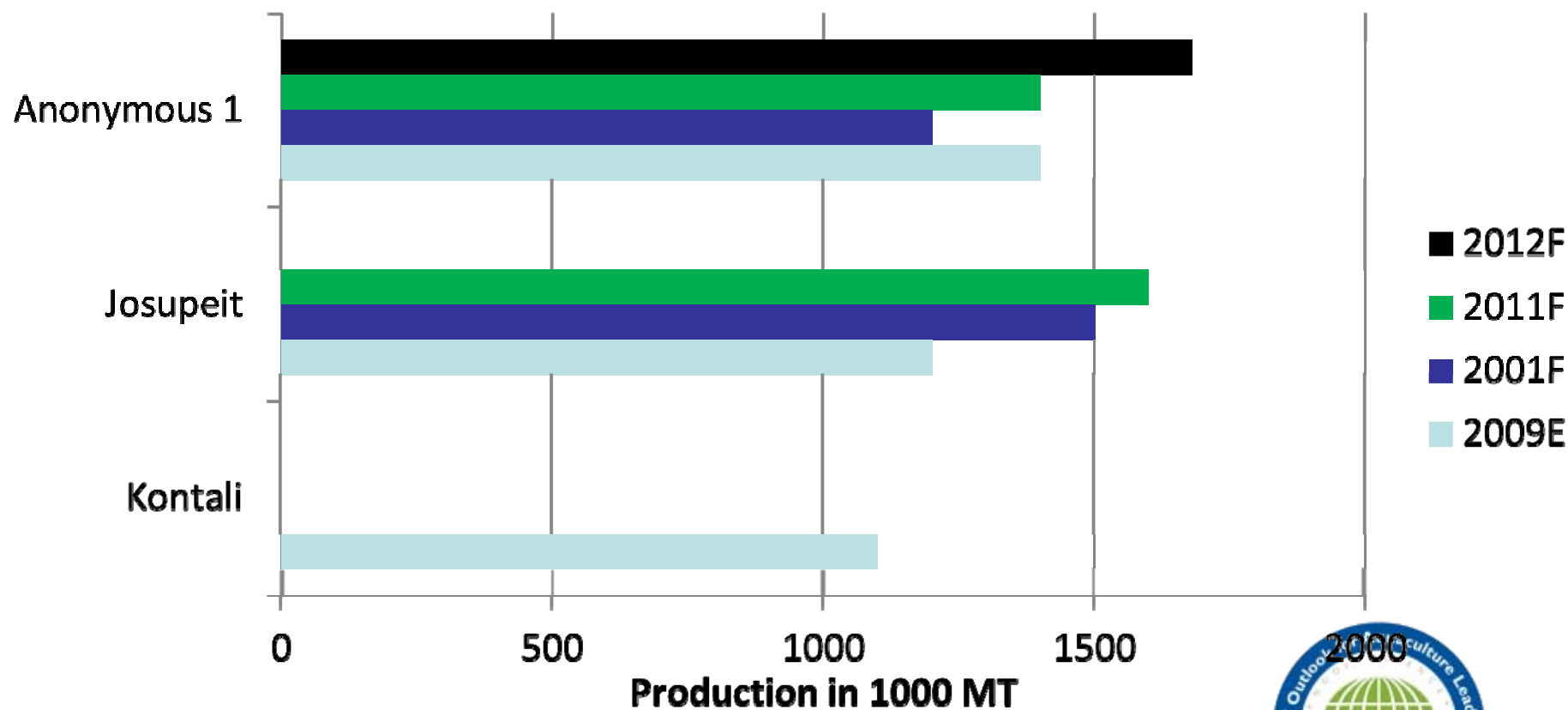


PANGASIUS



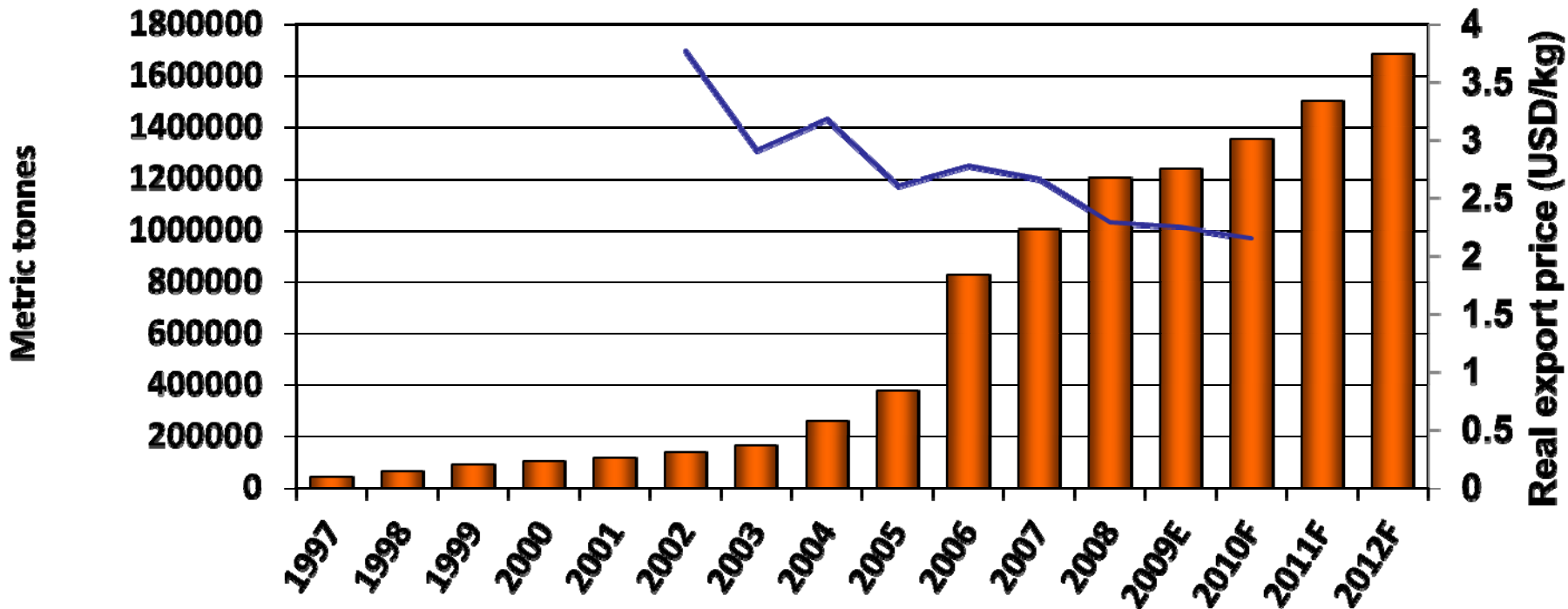
Pangasius, Vietnam

Estimates from three sources



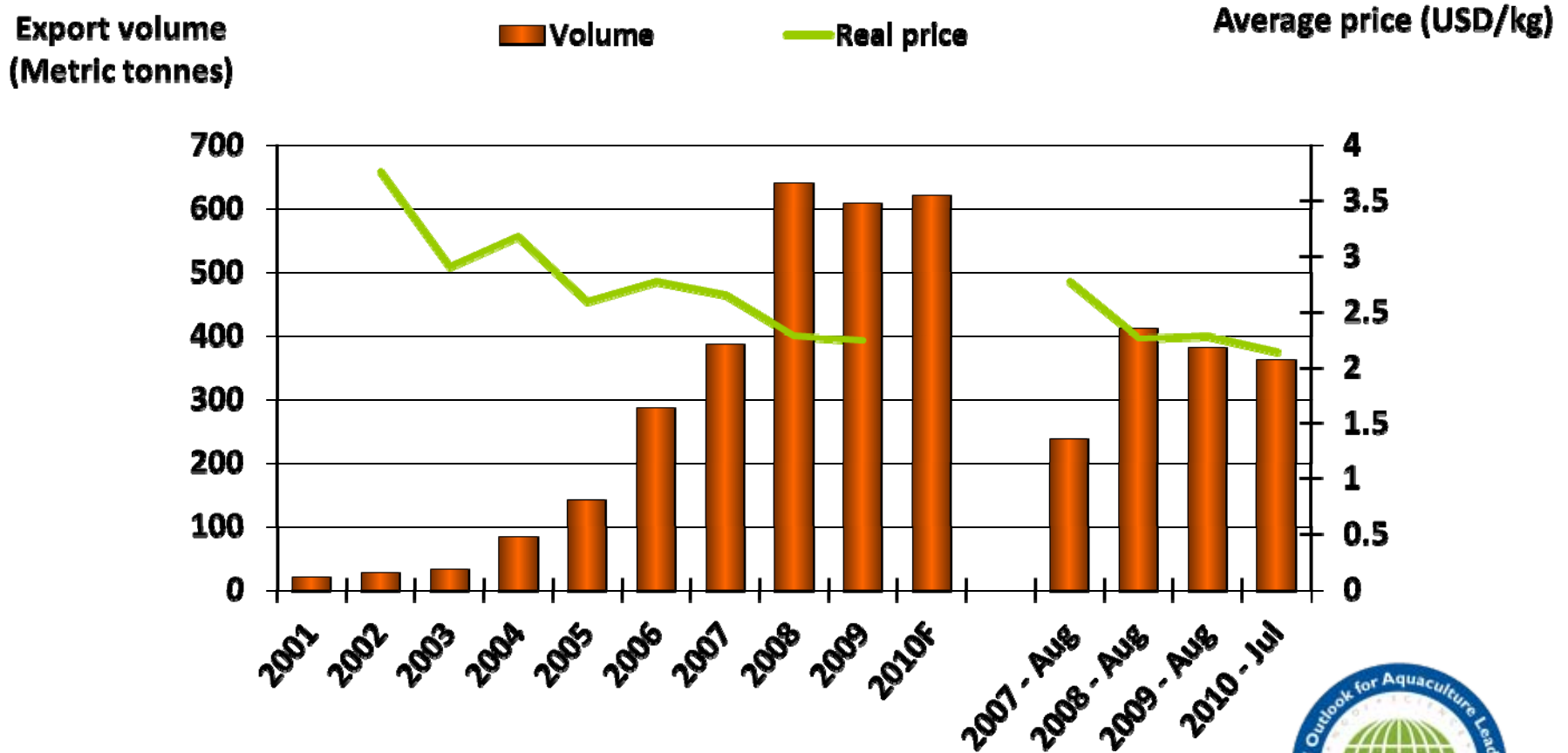
Pangasius

Production in Vietnam



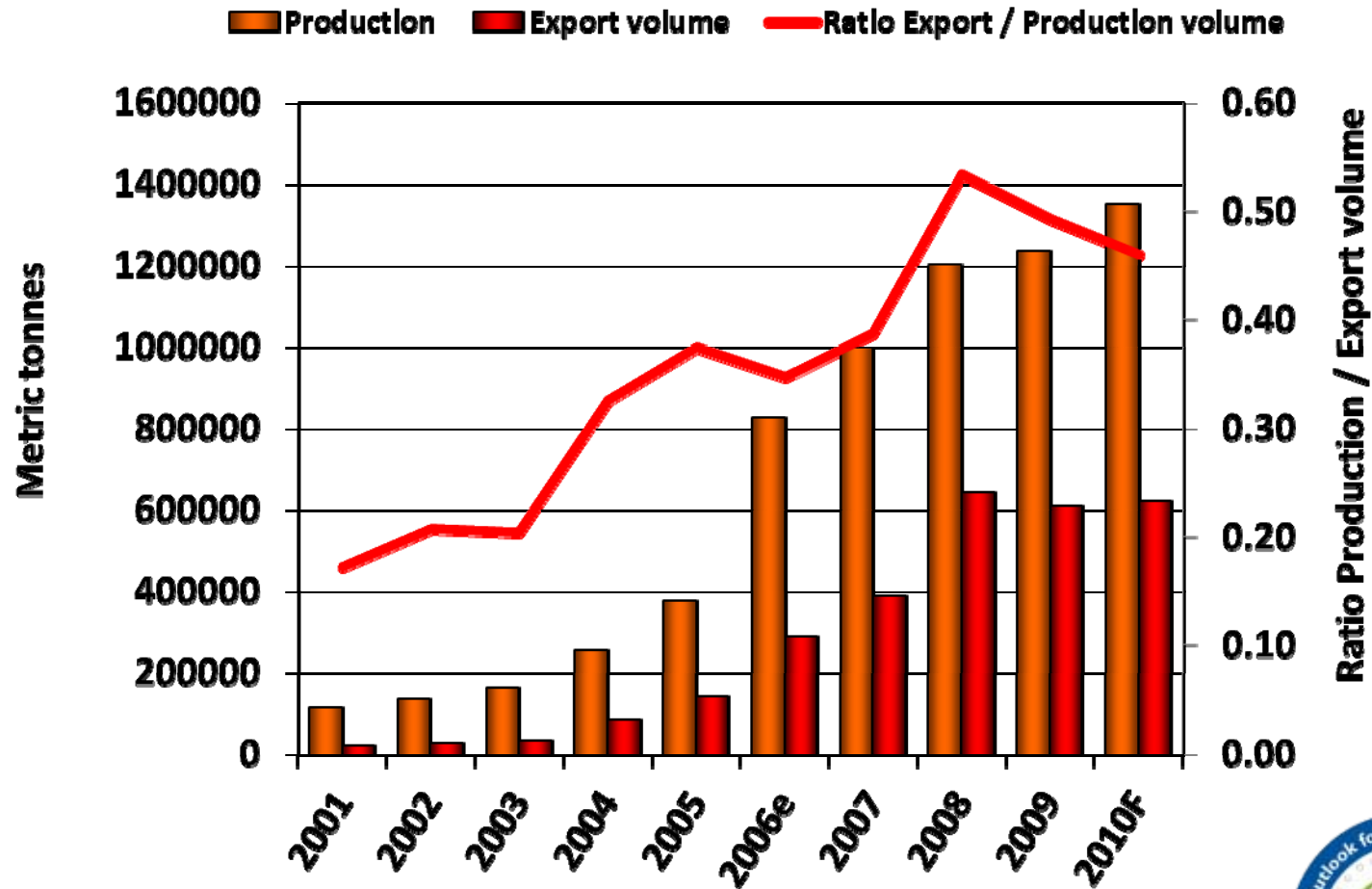
Pangasius

Vietnam Export Volume & Average Price



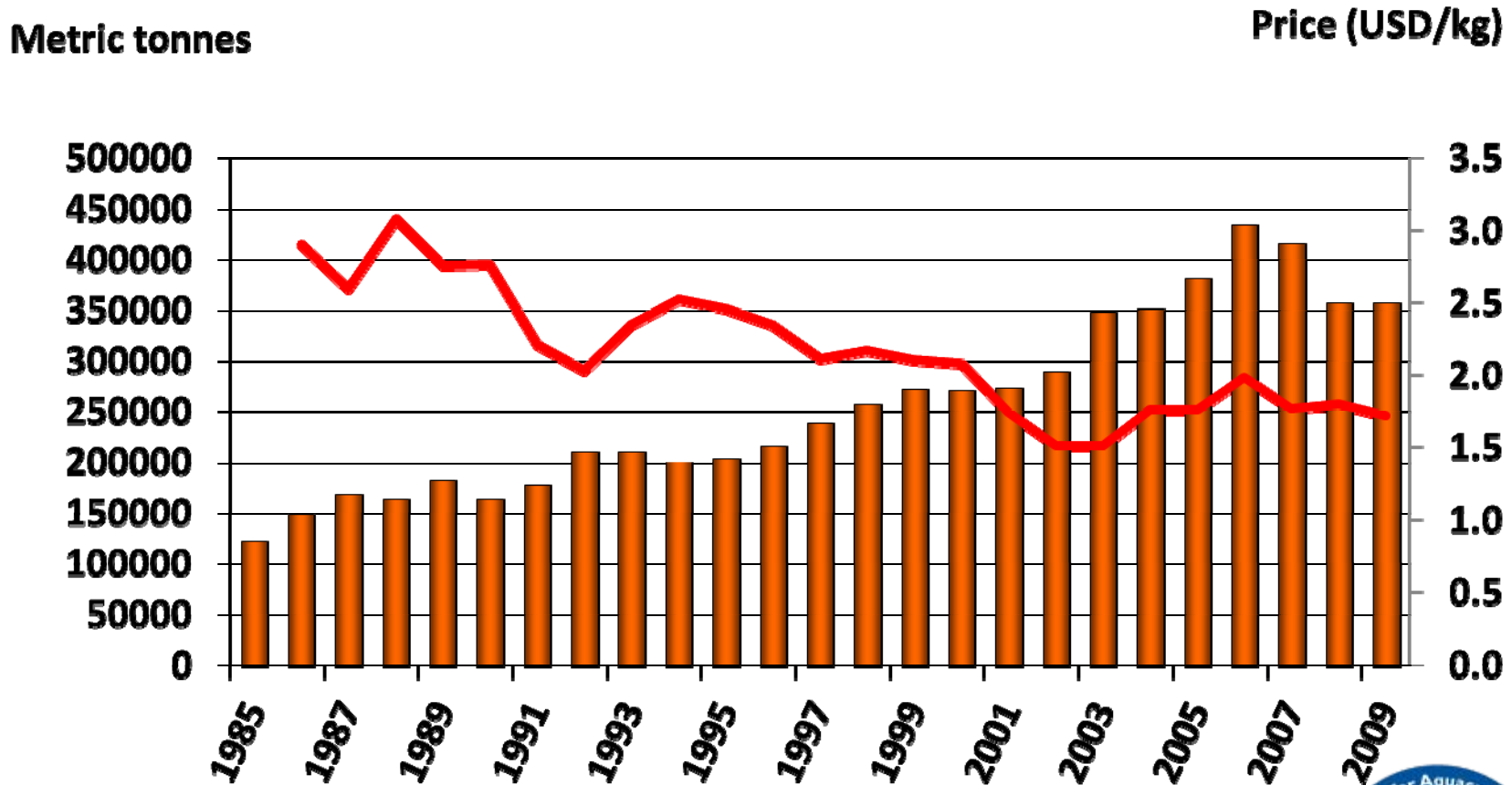
Pangasius

What is the relationship between production and exports?



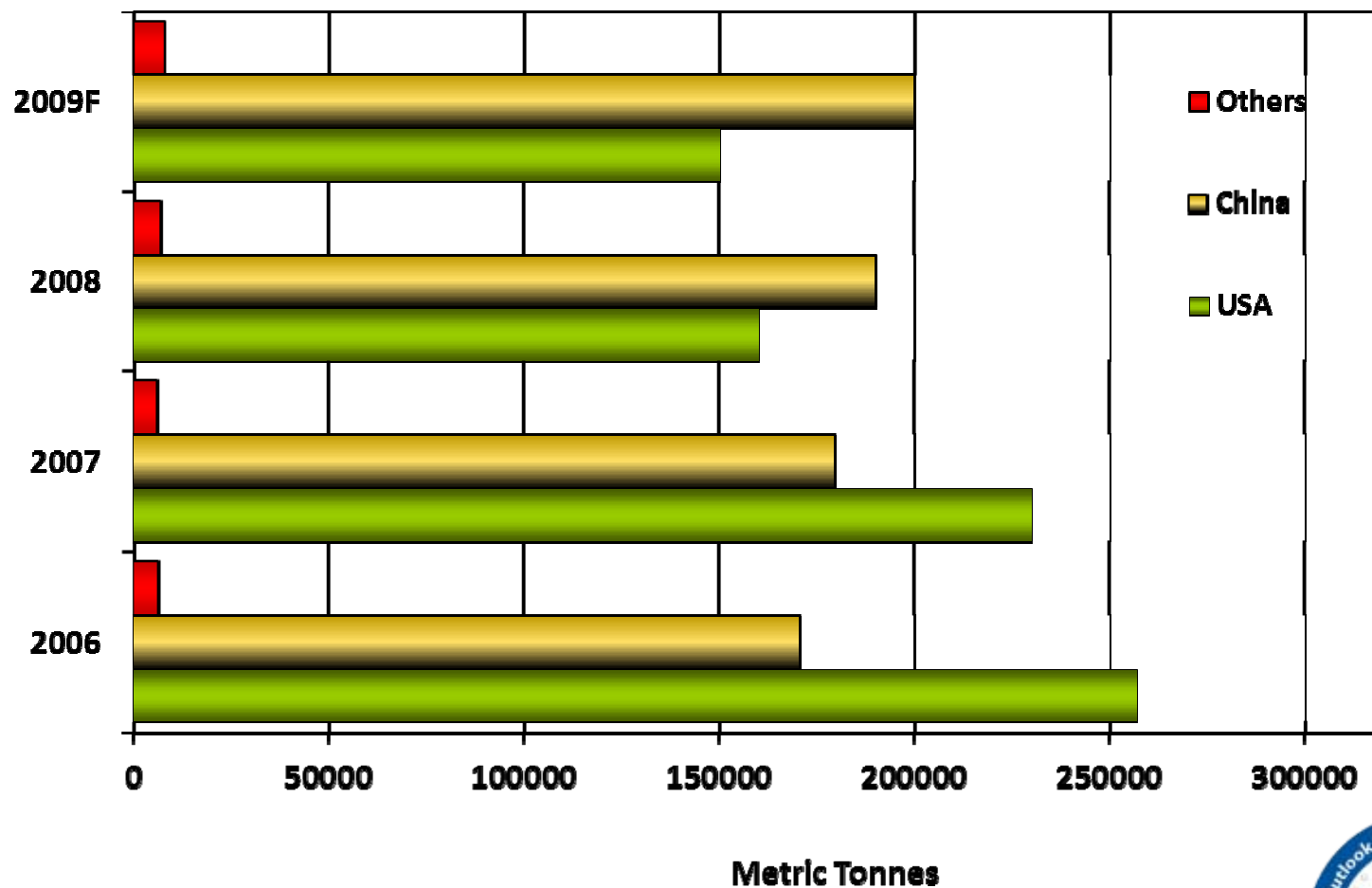
Channel Catfish

Total Global Production and Real Price U.S.



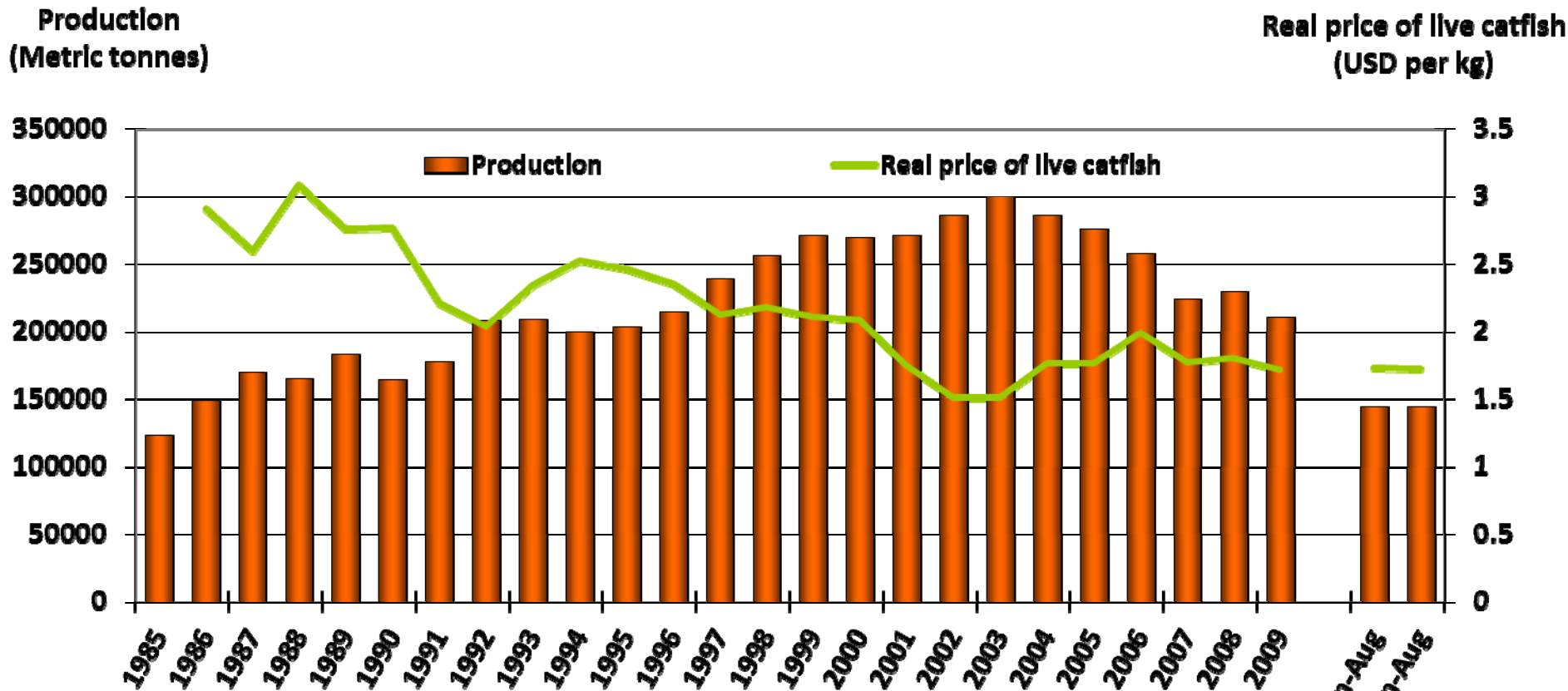
Channel Catfish

Production by Country



Channel Catfish

U.S. Production and Real Price





SEA BREAM

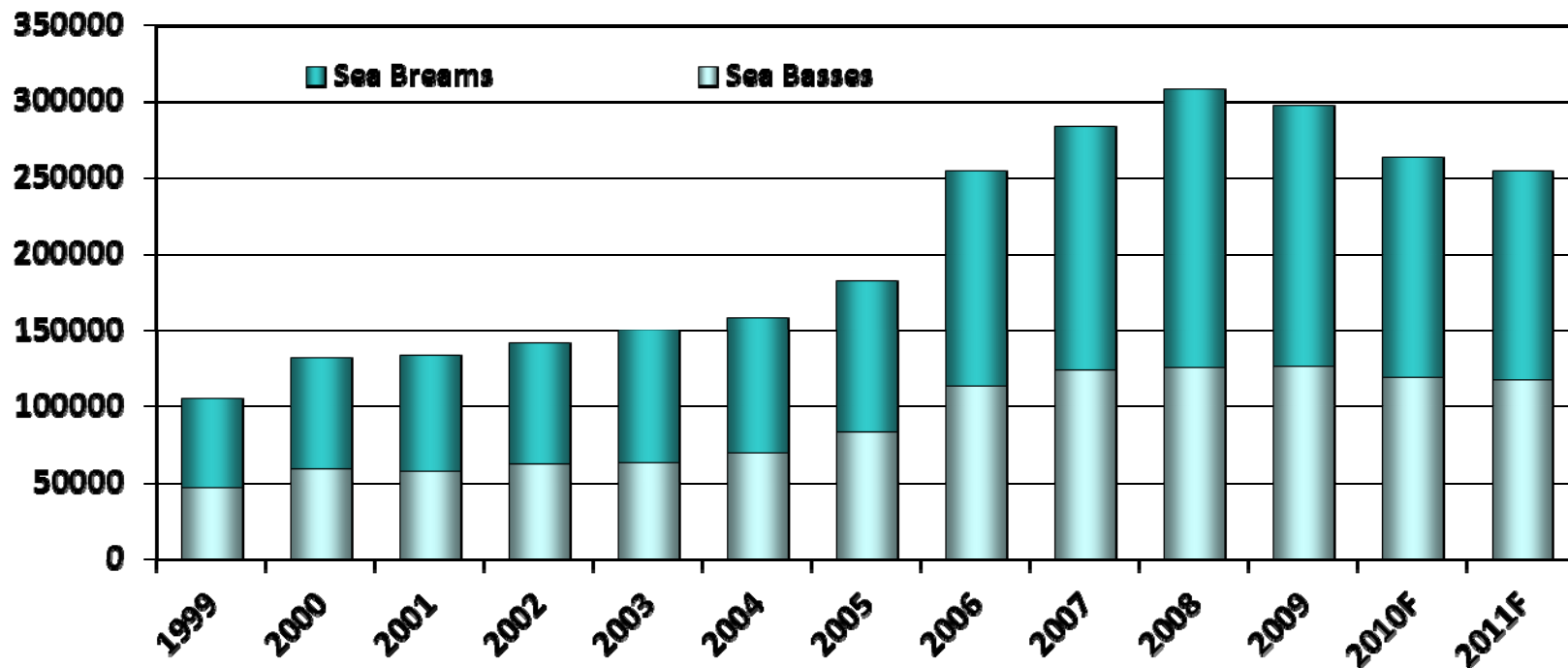
SEABASS



Seabass & Sea Bream

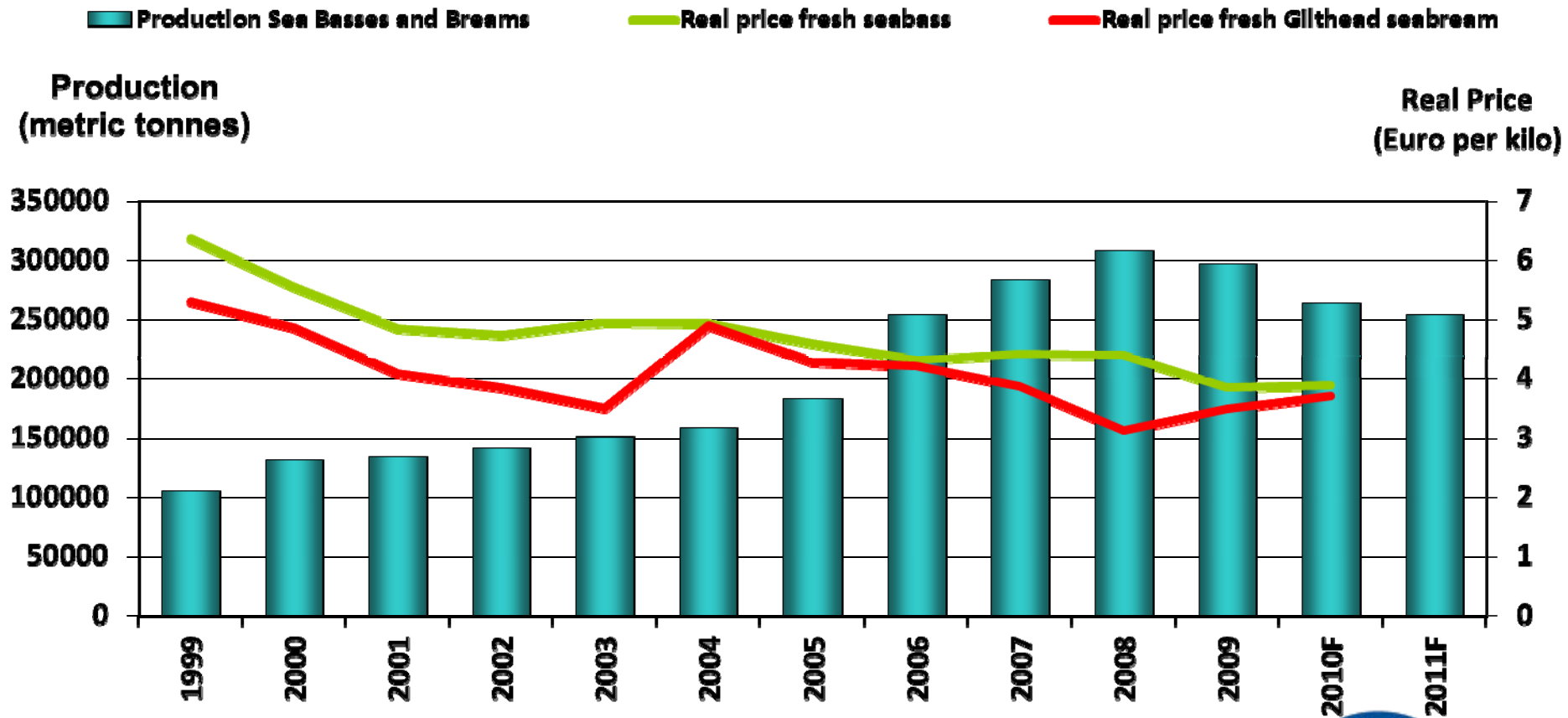
Mediterranean Production

Production
In metric tonnes



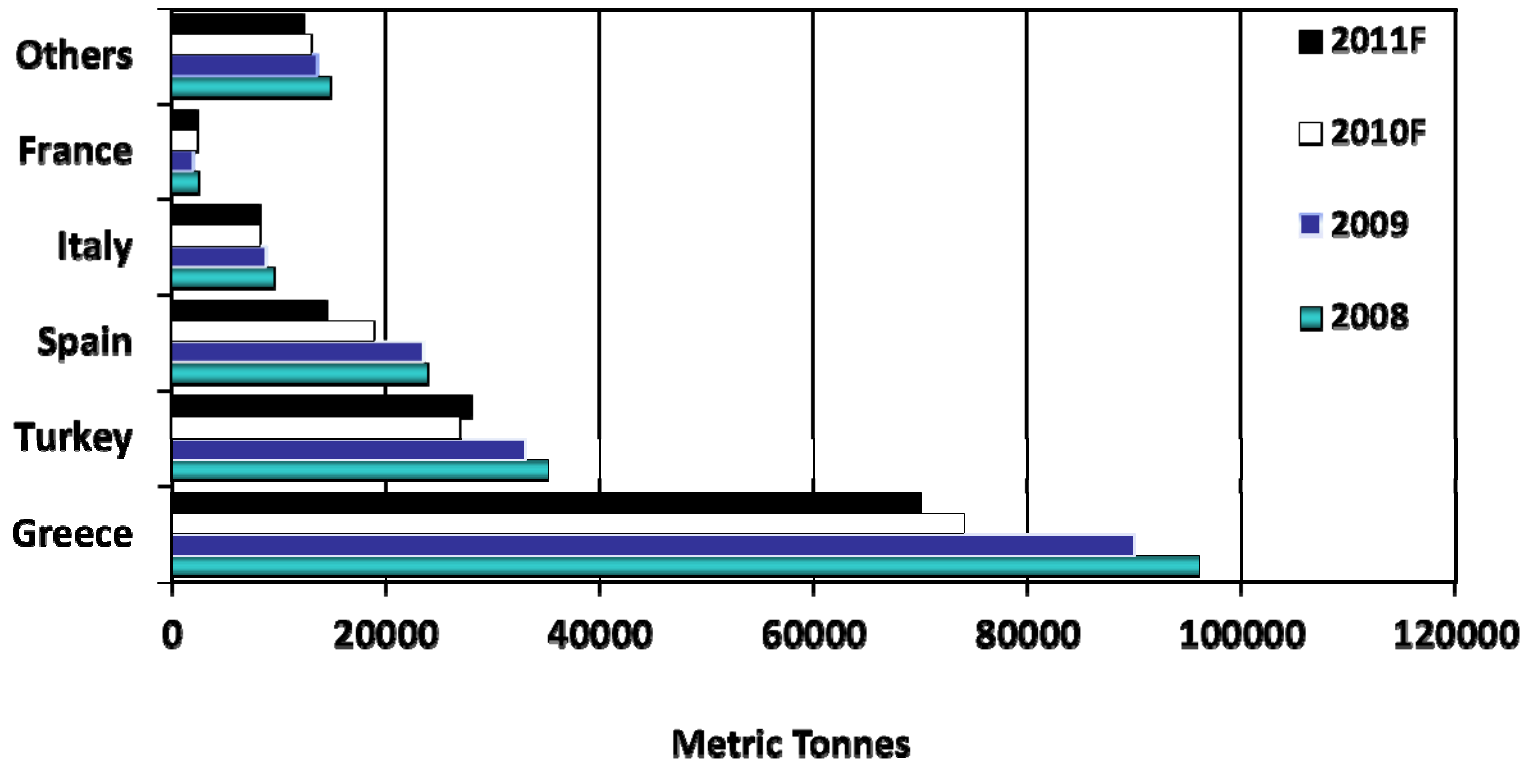
Seabass & Sea Bream

European Production & Real EU Import Price



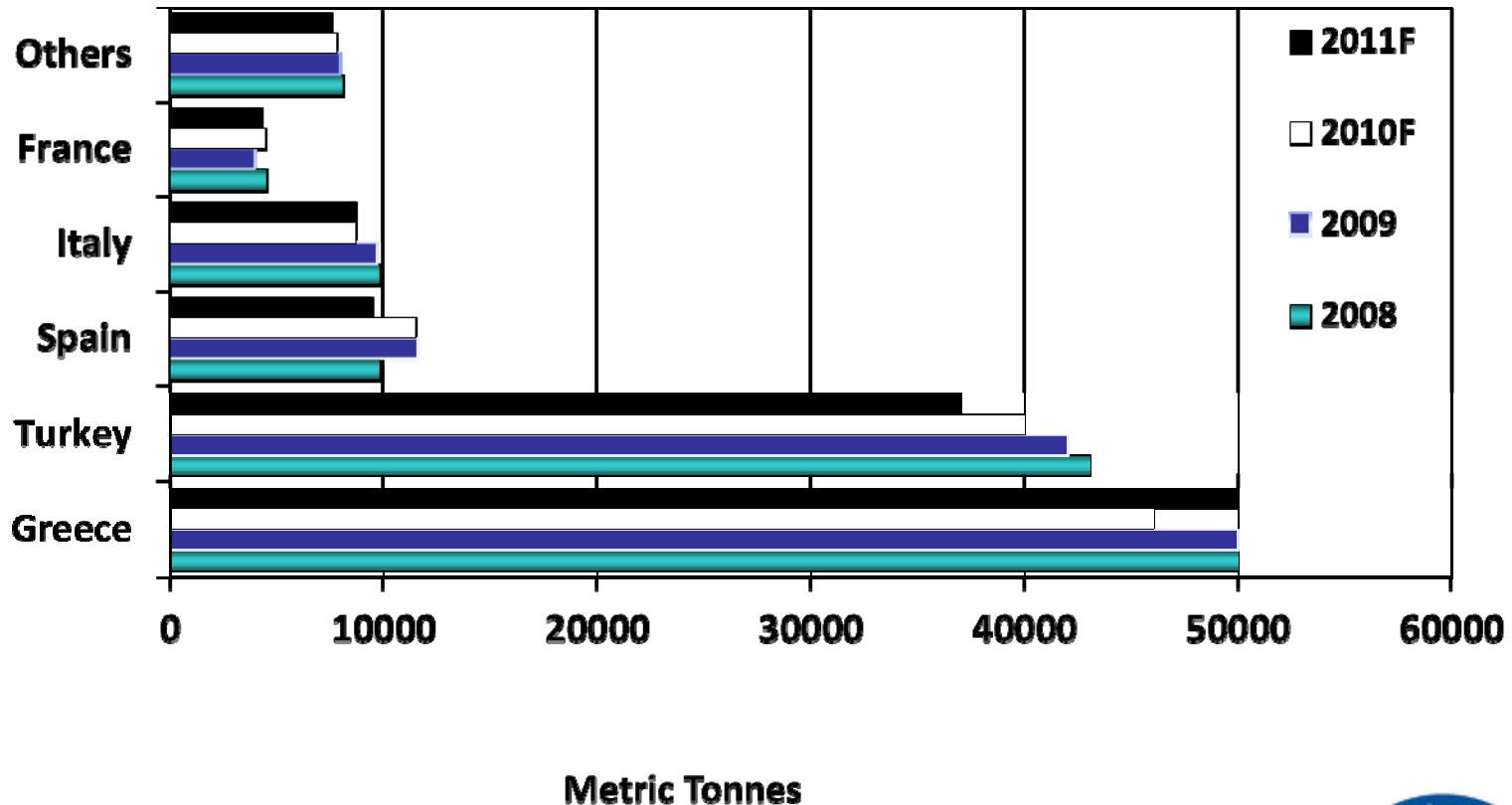
Seabream

Production in Mediterranean Countries



Seabass

Production in Mediterranean Countries



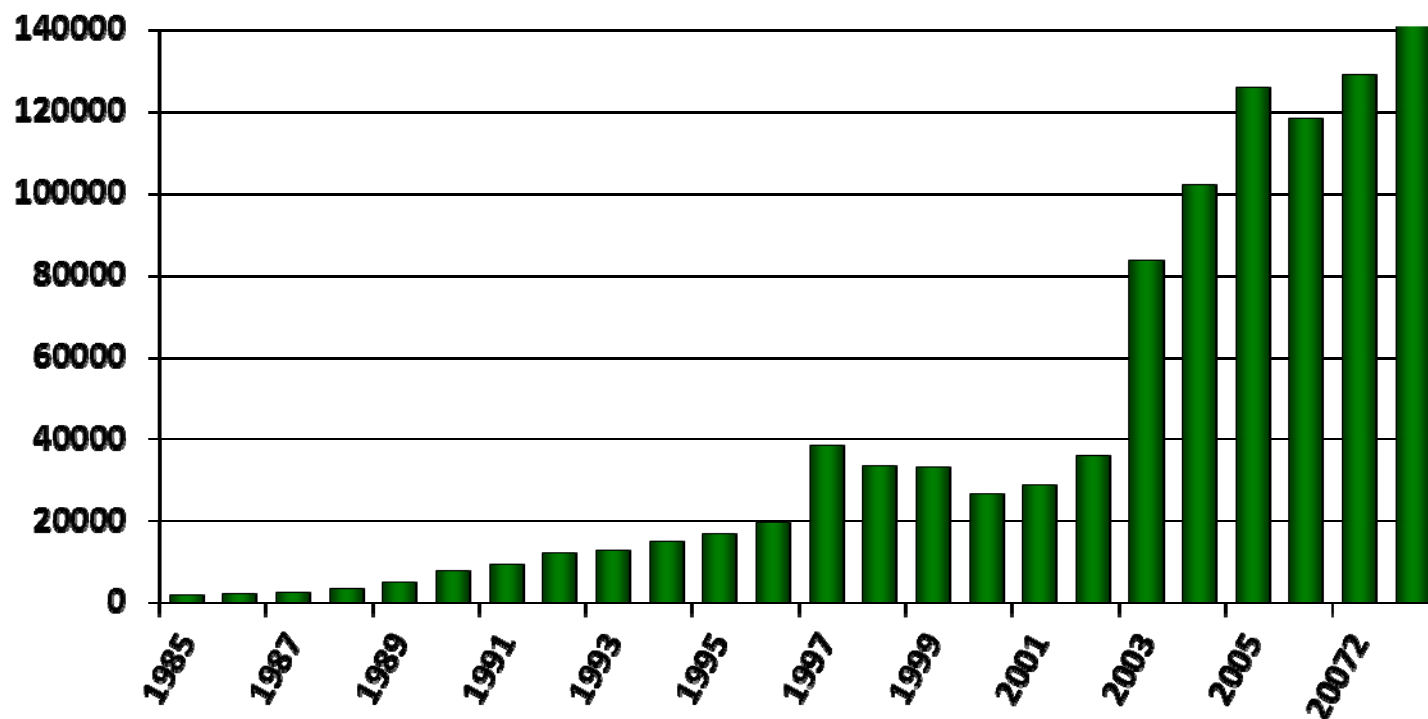
Flatfishes



Flatfishes

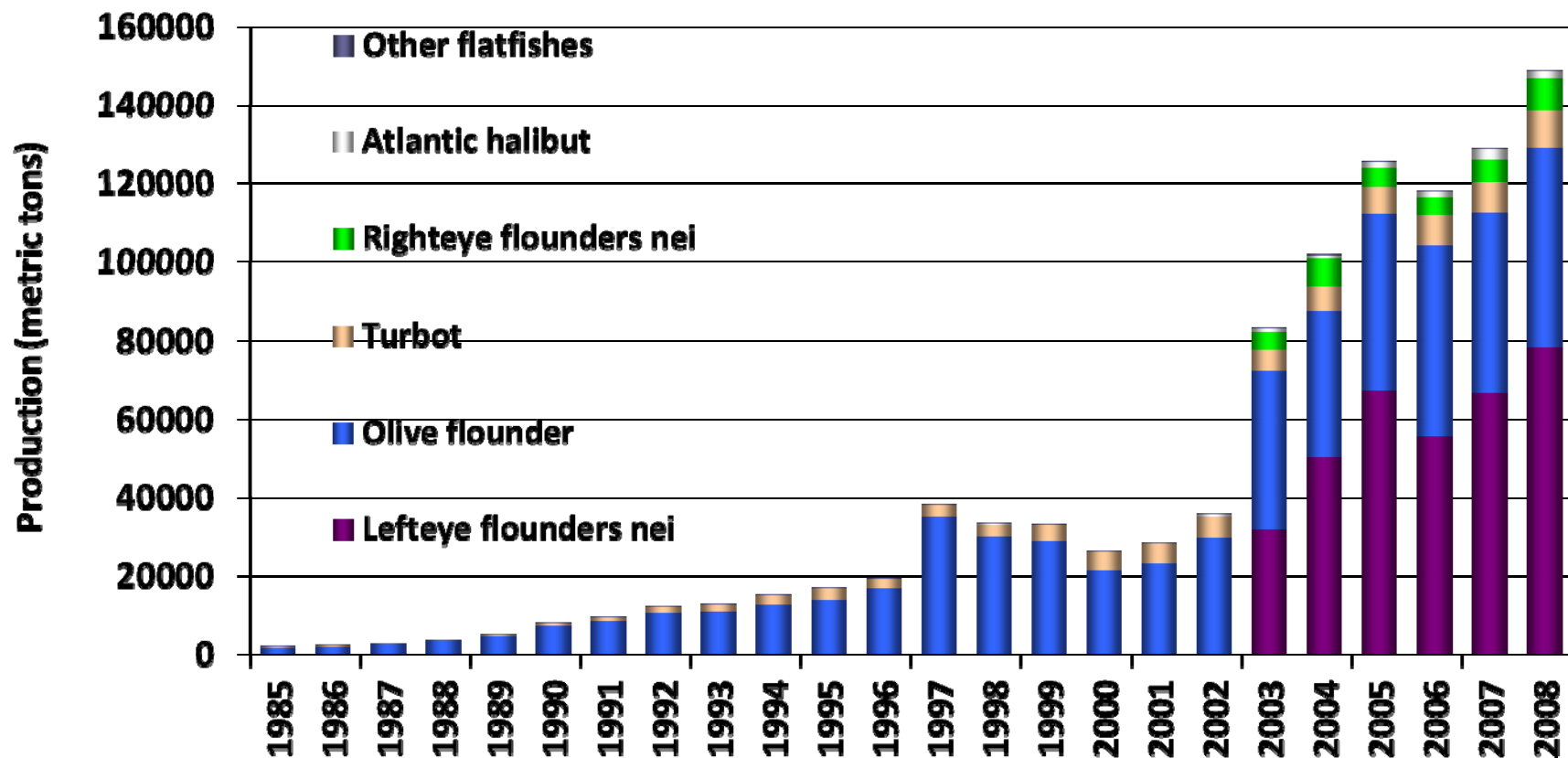
Global Production

Production
In metric tonnes



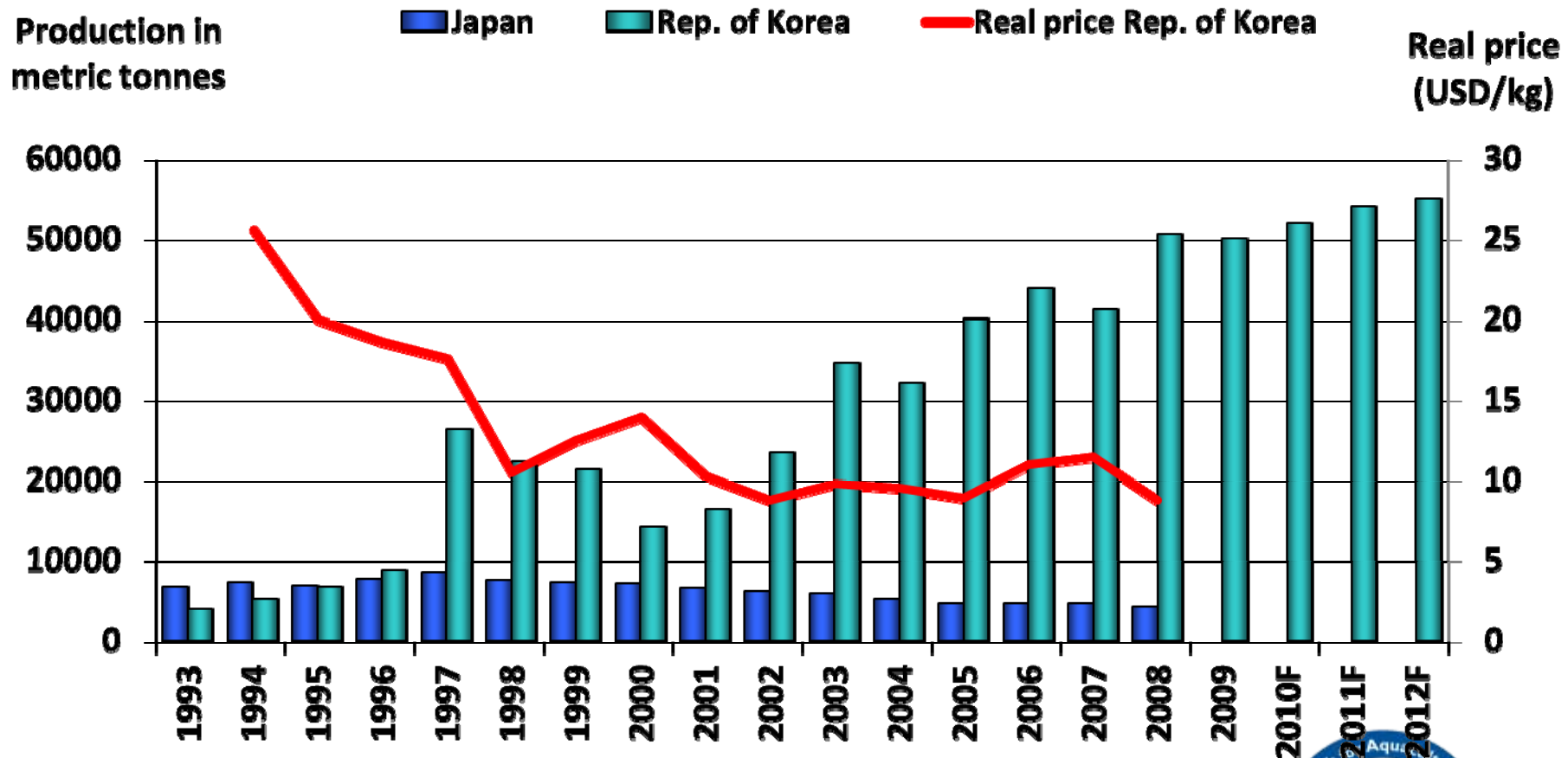
Flatfishes

Global Production



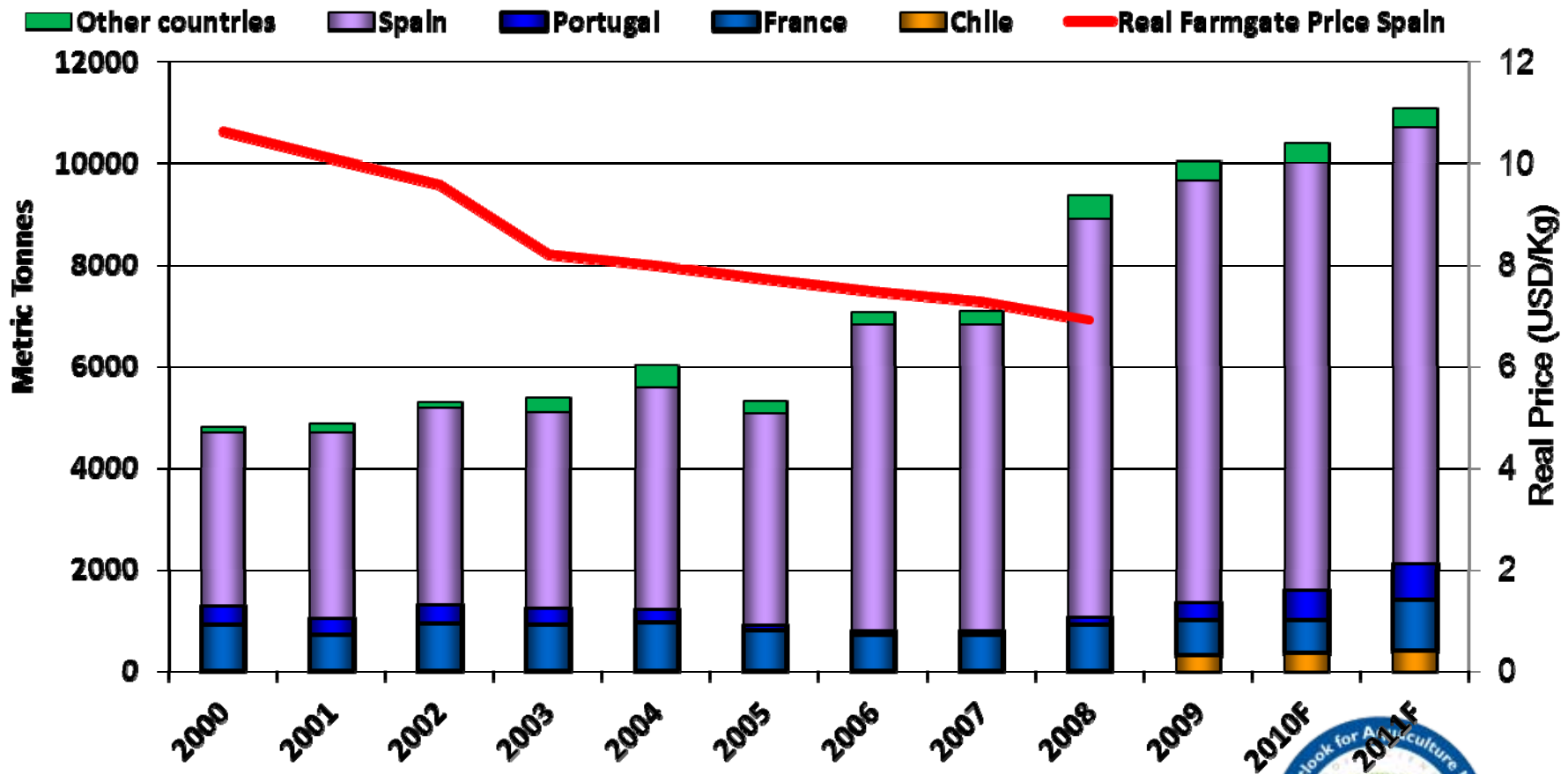
Olive Flounder

Production and real farmgate price

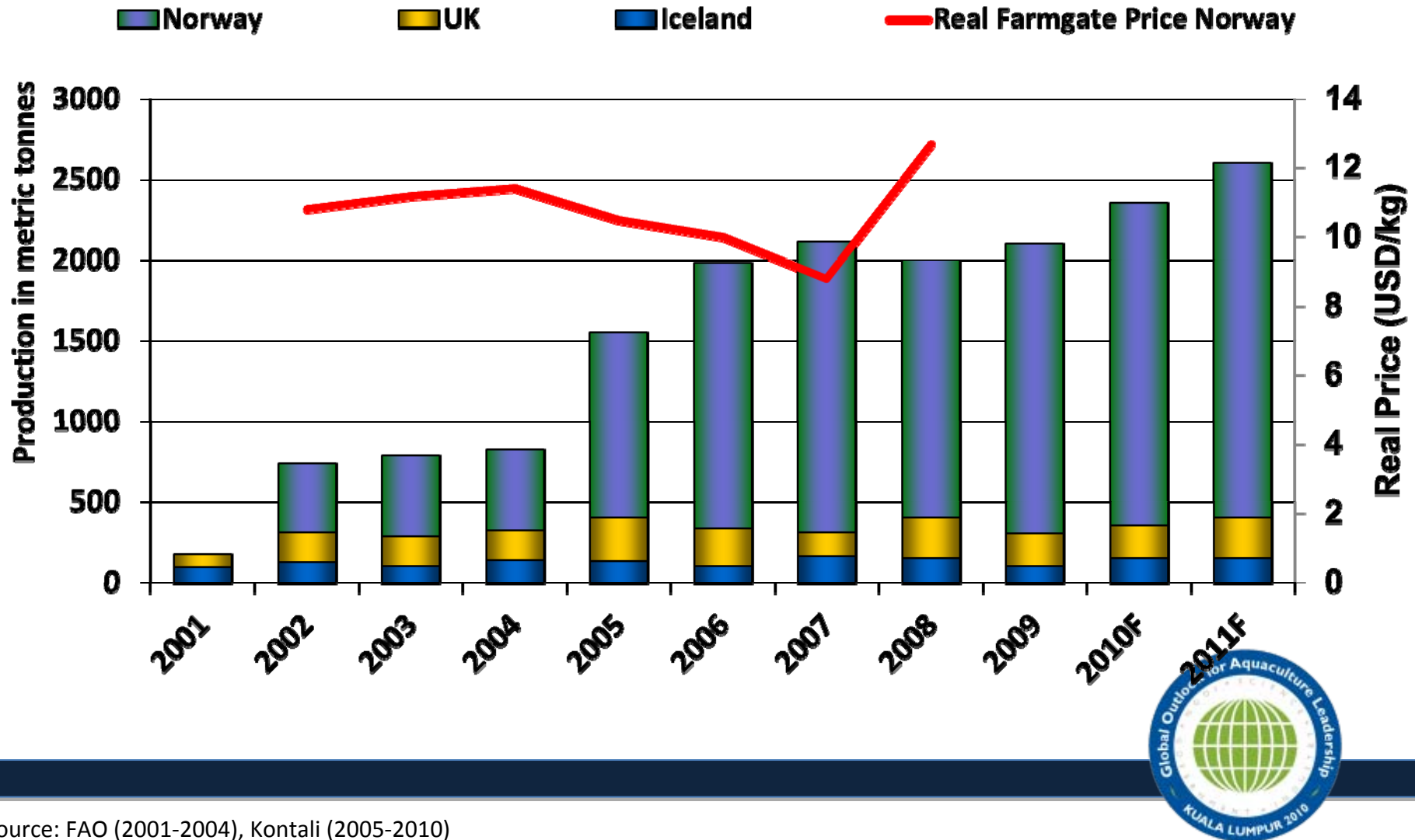


Turbot

Production in selected countries



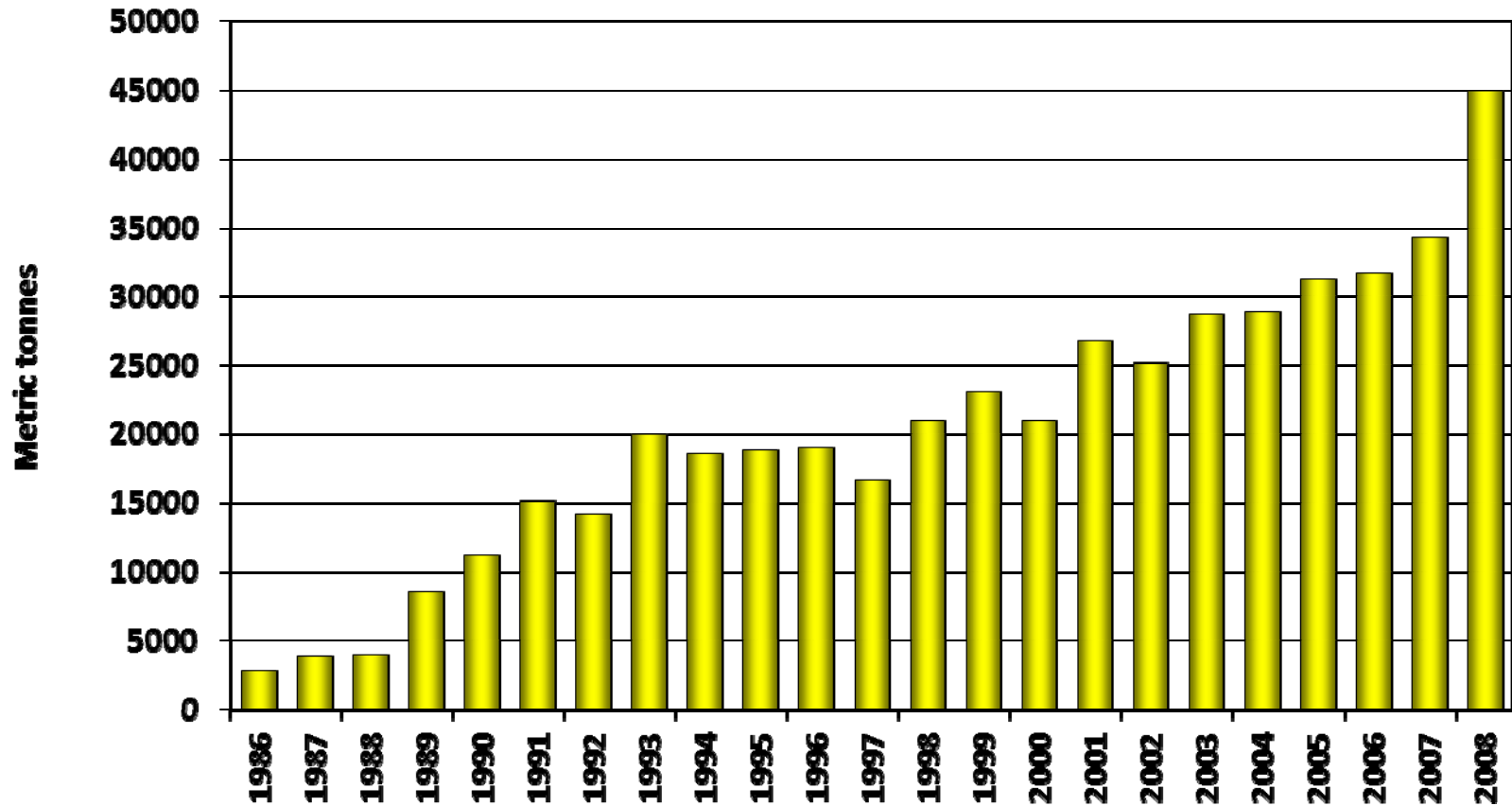
Atlantic Halibut Production



Barramundi

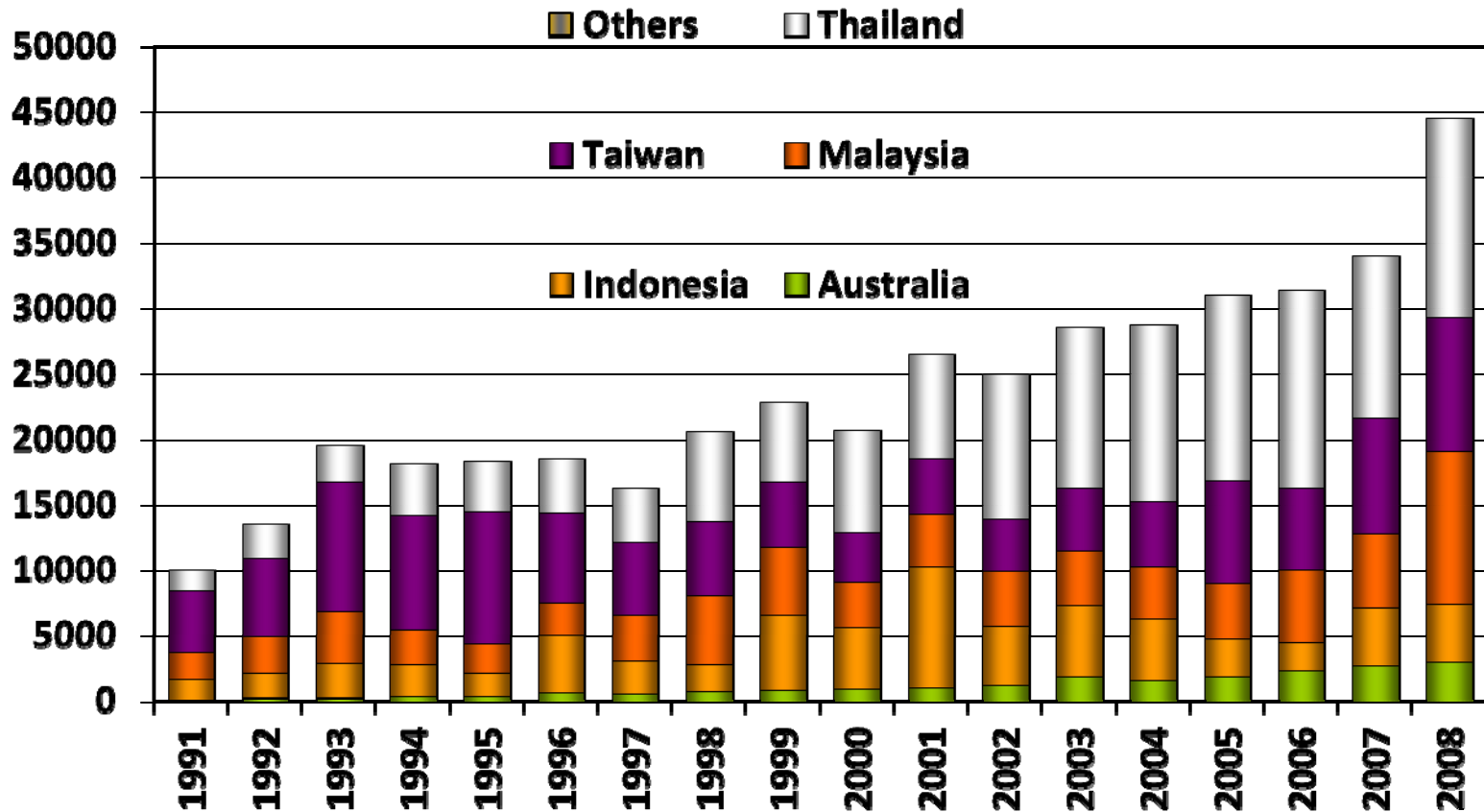


Barramundi Total Production



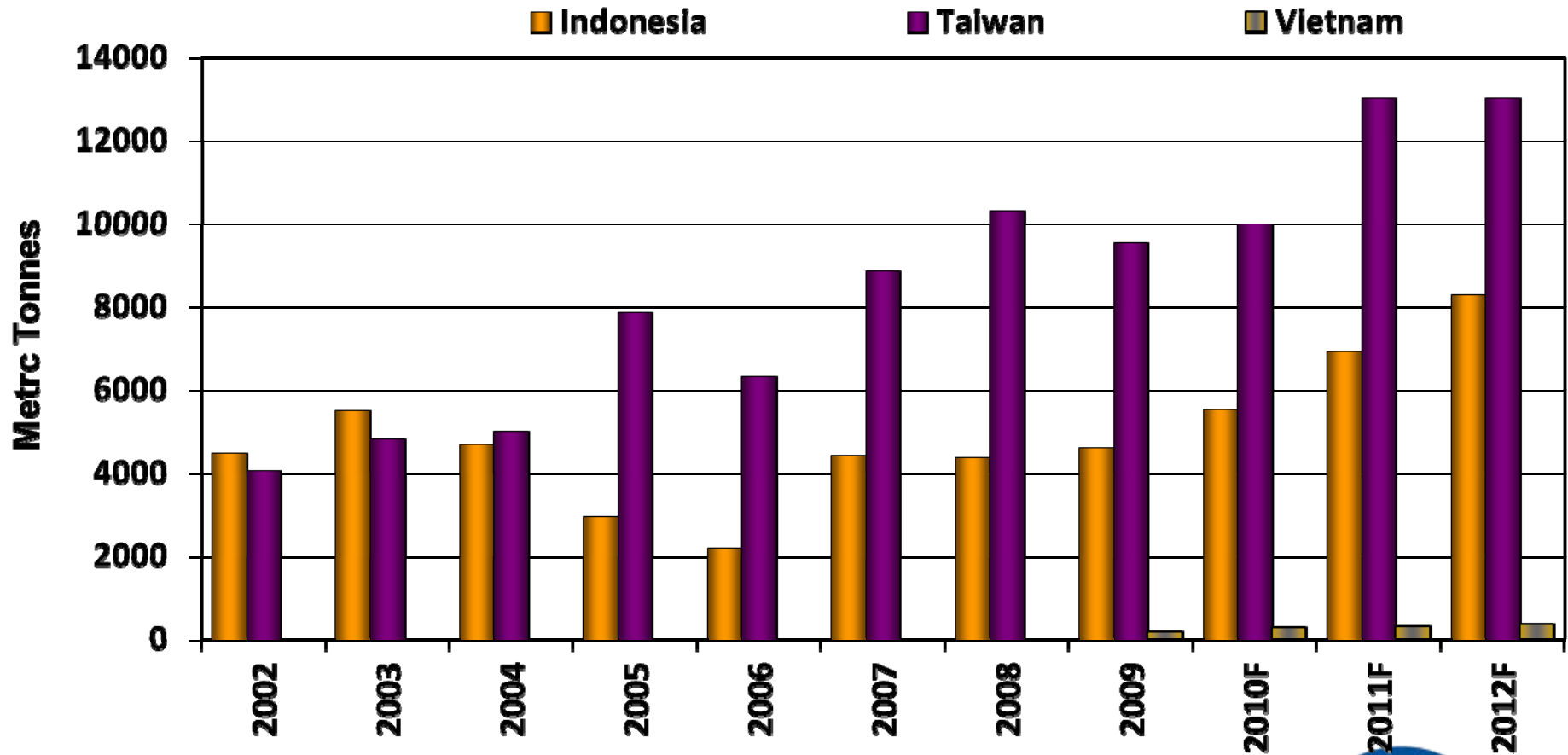
Barramundi

Major Producing Countries



Barramundi

Production forecasts for selected countries



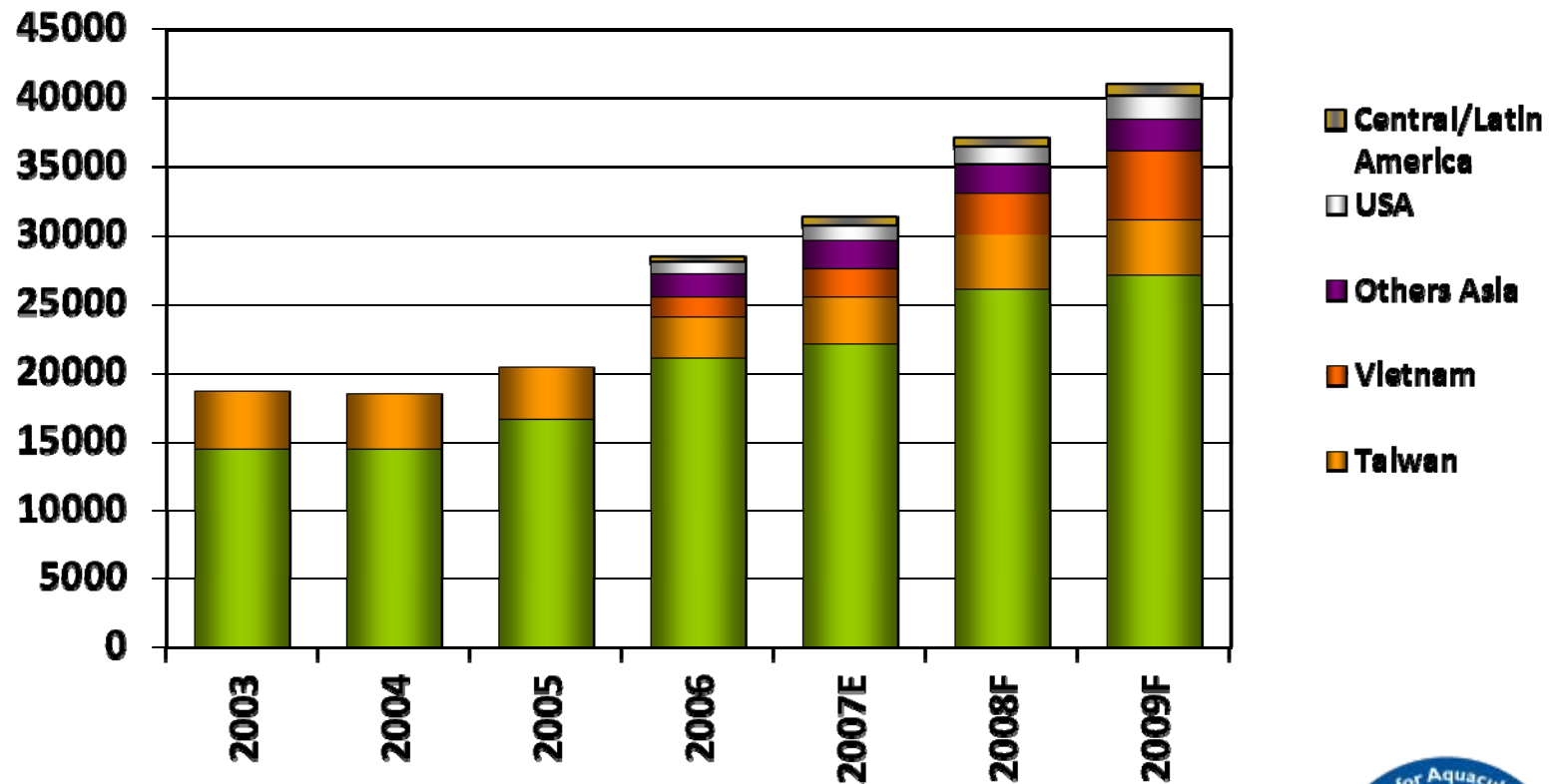
A large school of cobia fish swimming in clear blue water. The fish are silvery with dark stripes along their sides. They are swimming in various directions, creating a sense of movement. The water is bright blue with some light reflecting off the surface.

COBIA

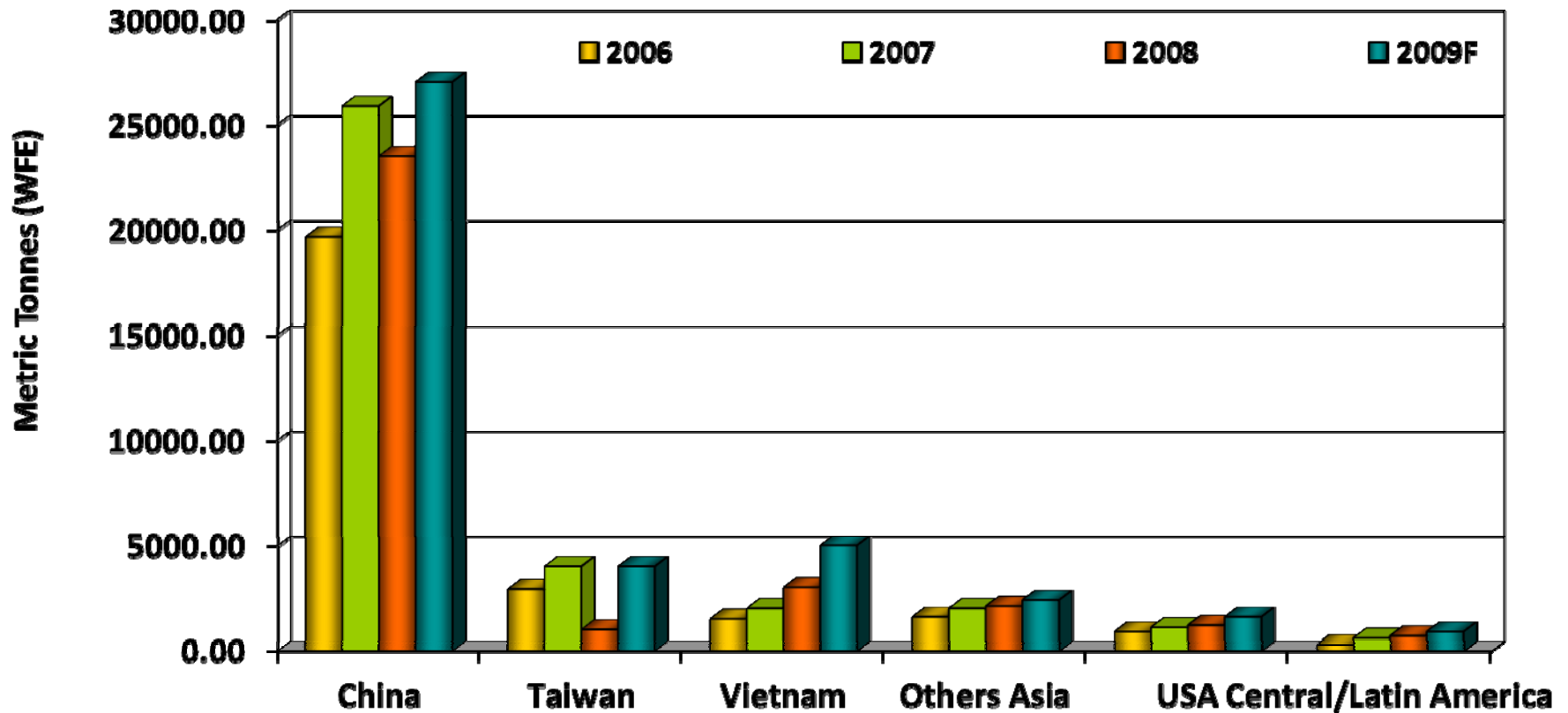
SNAPPERFARM

Farmed Cobia

Major Producing Countries



Farmed Cobia Production

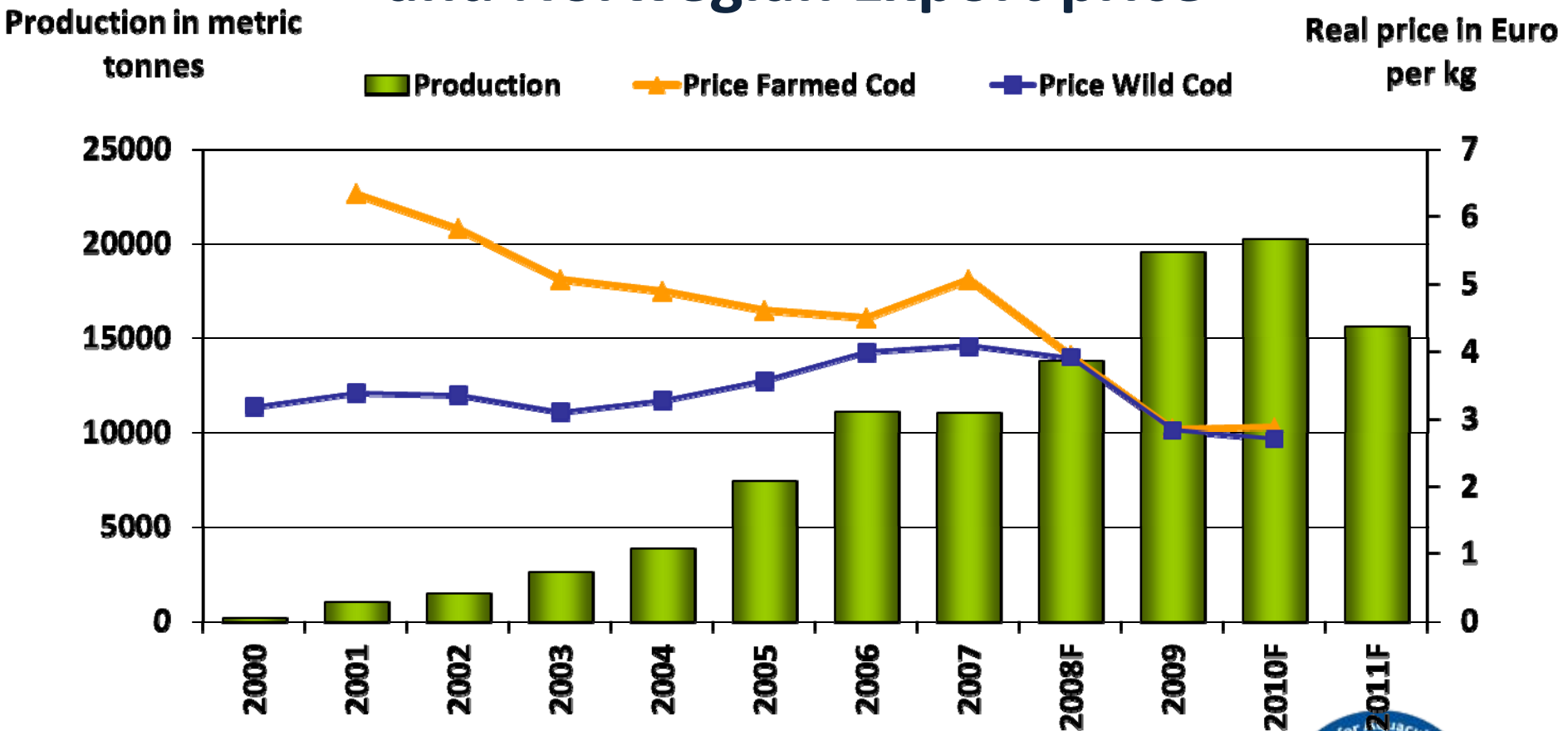


Atlantic Cod



Atlantic Cod

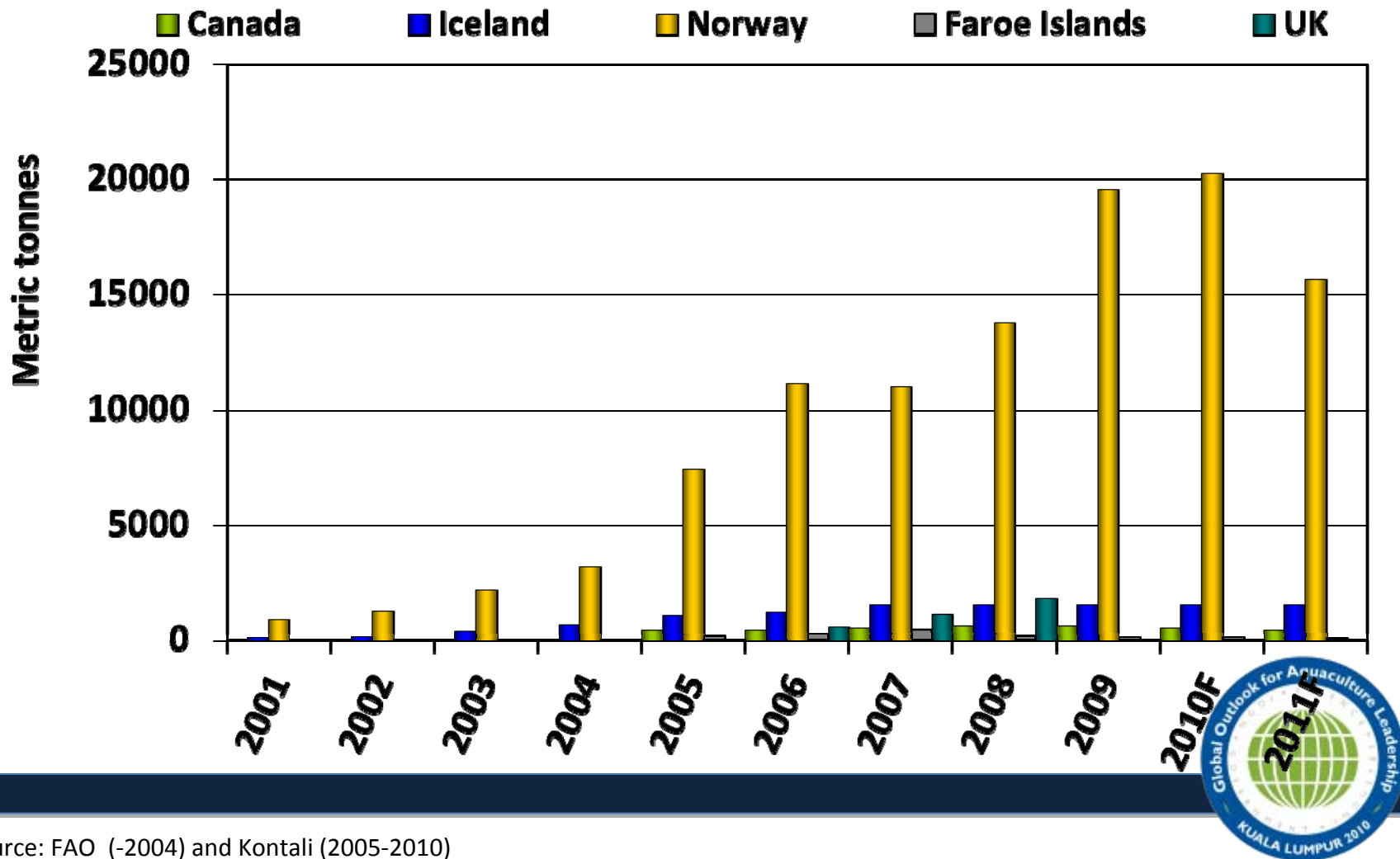
Total Farmed Production and Norwegian Export price



Sources: Norwegian Directorate of Fisheries (1989-2004), Kontali (2005-2011), Norwegian Seafood Export Council (Prices)

Atlantic Cod

Farmed Production by Country

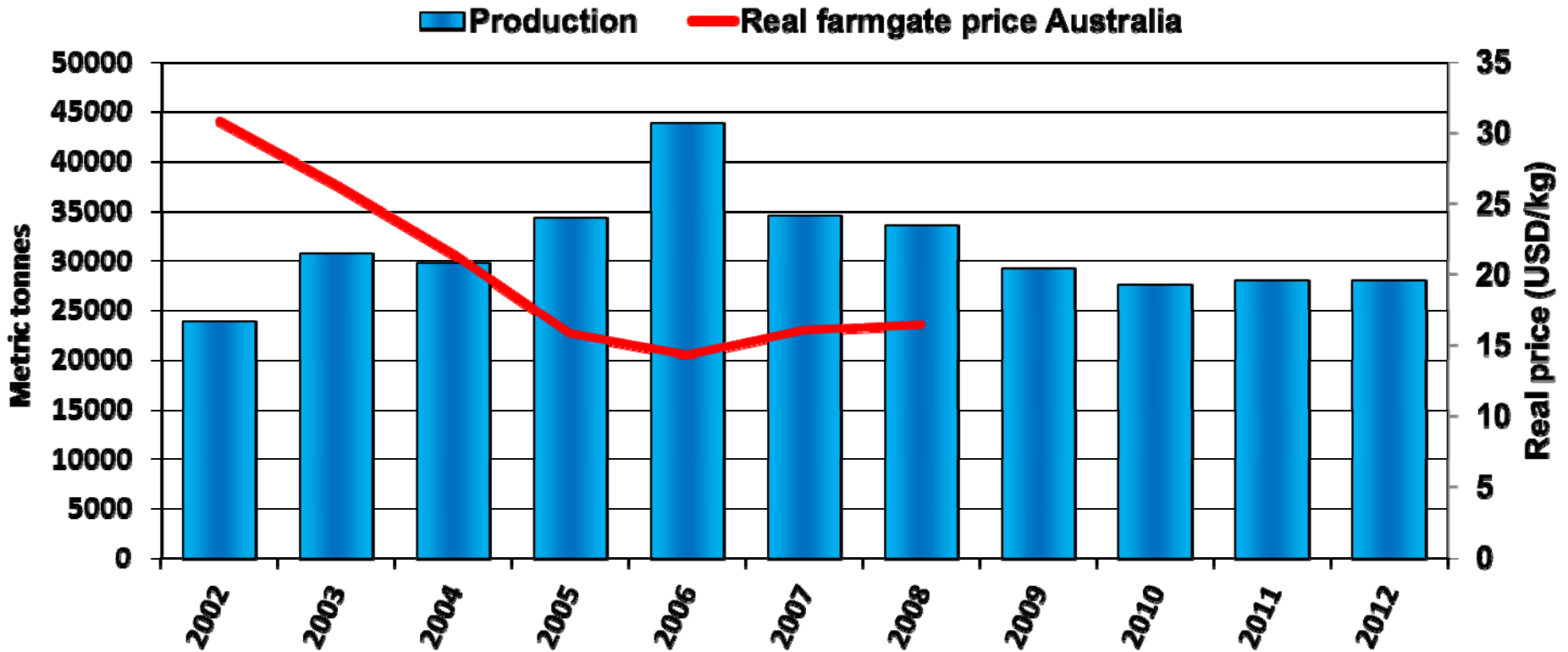


TUNAS



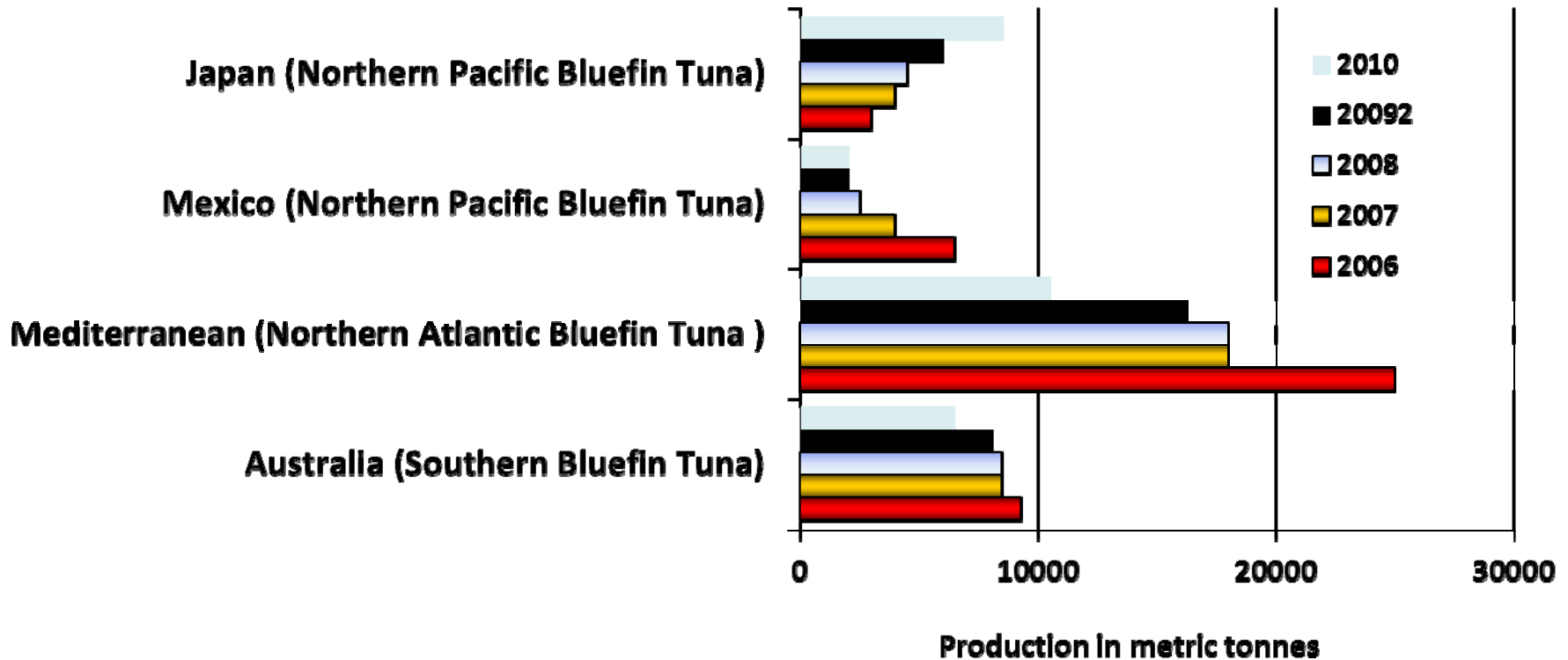
Bluefin Tuna

Total Production



Bluefin Tuna

Production by Region

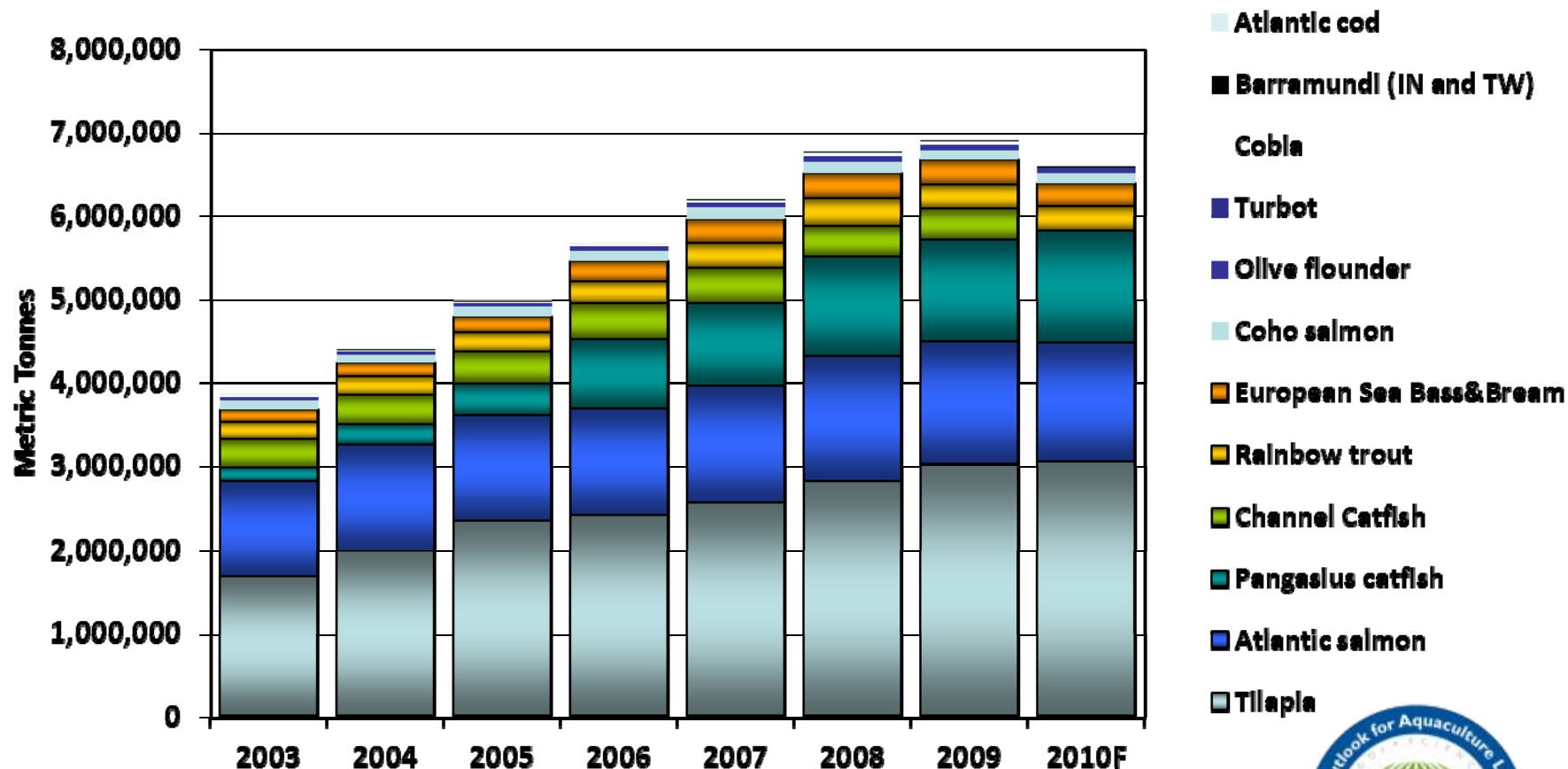


Summary



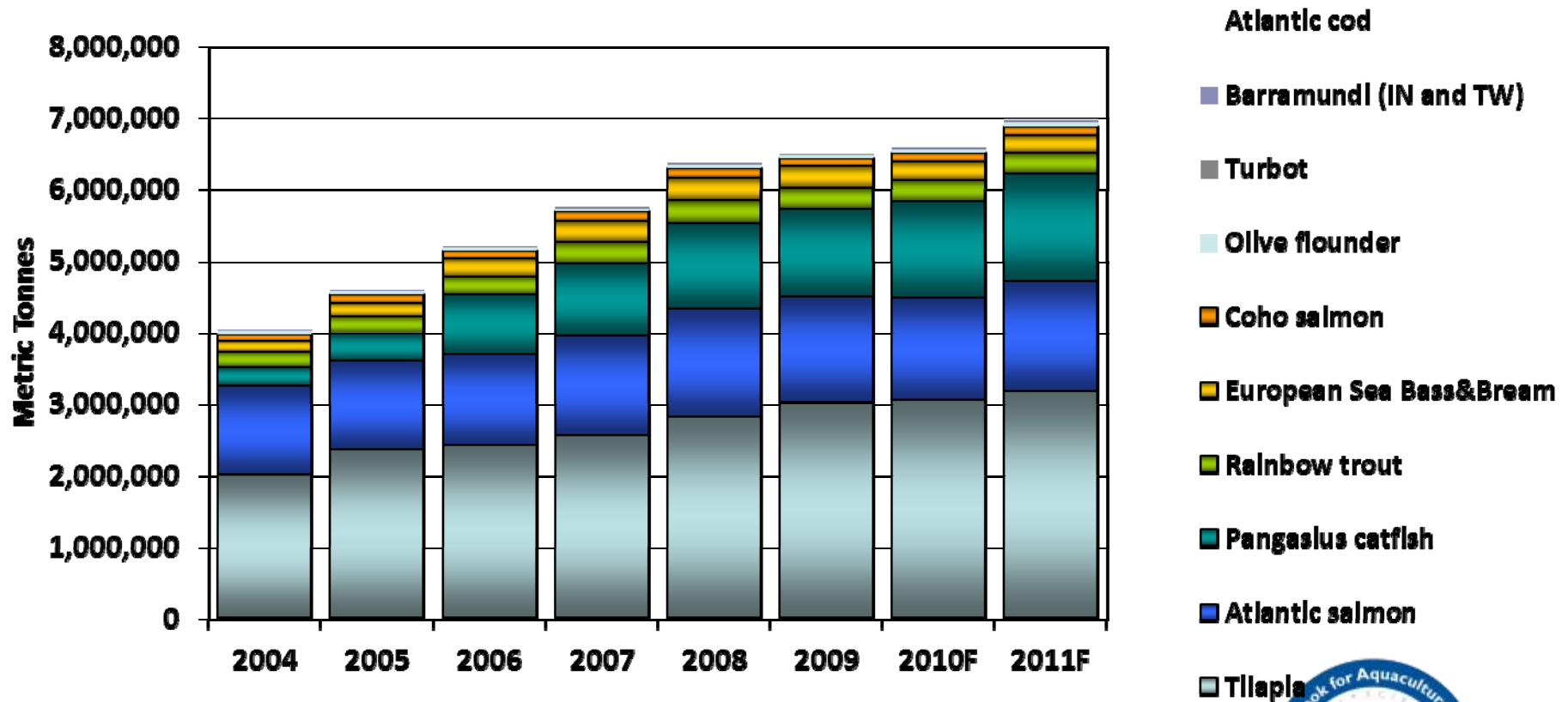
Production of Surveyed Species

2003-2010

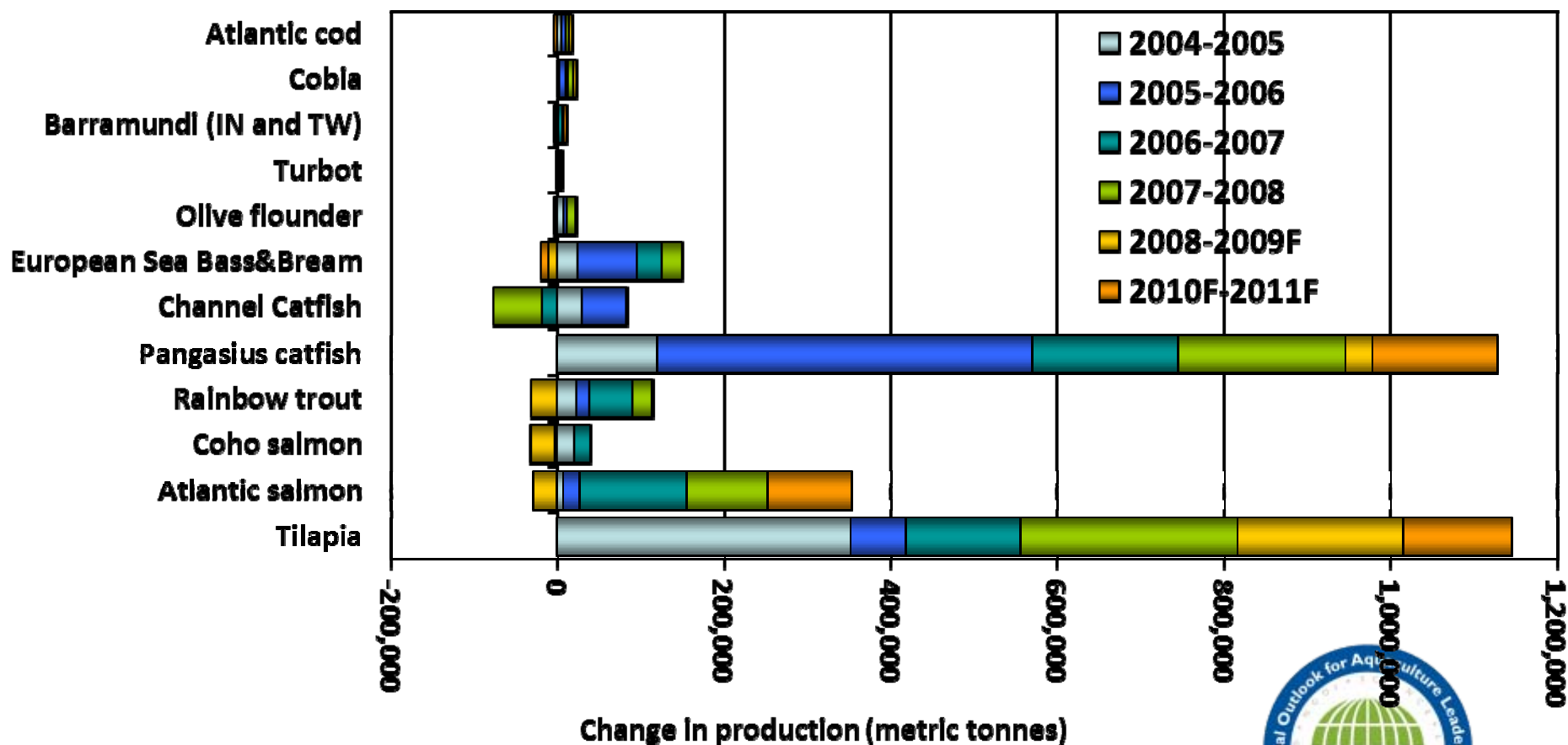


Channel Catfish 2010 data not included

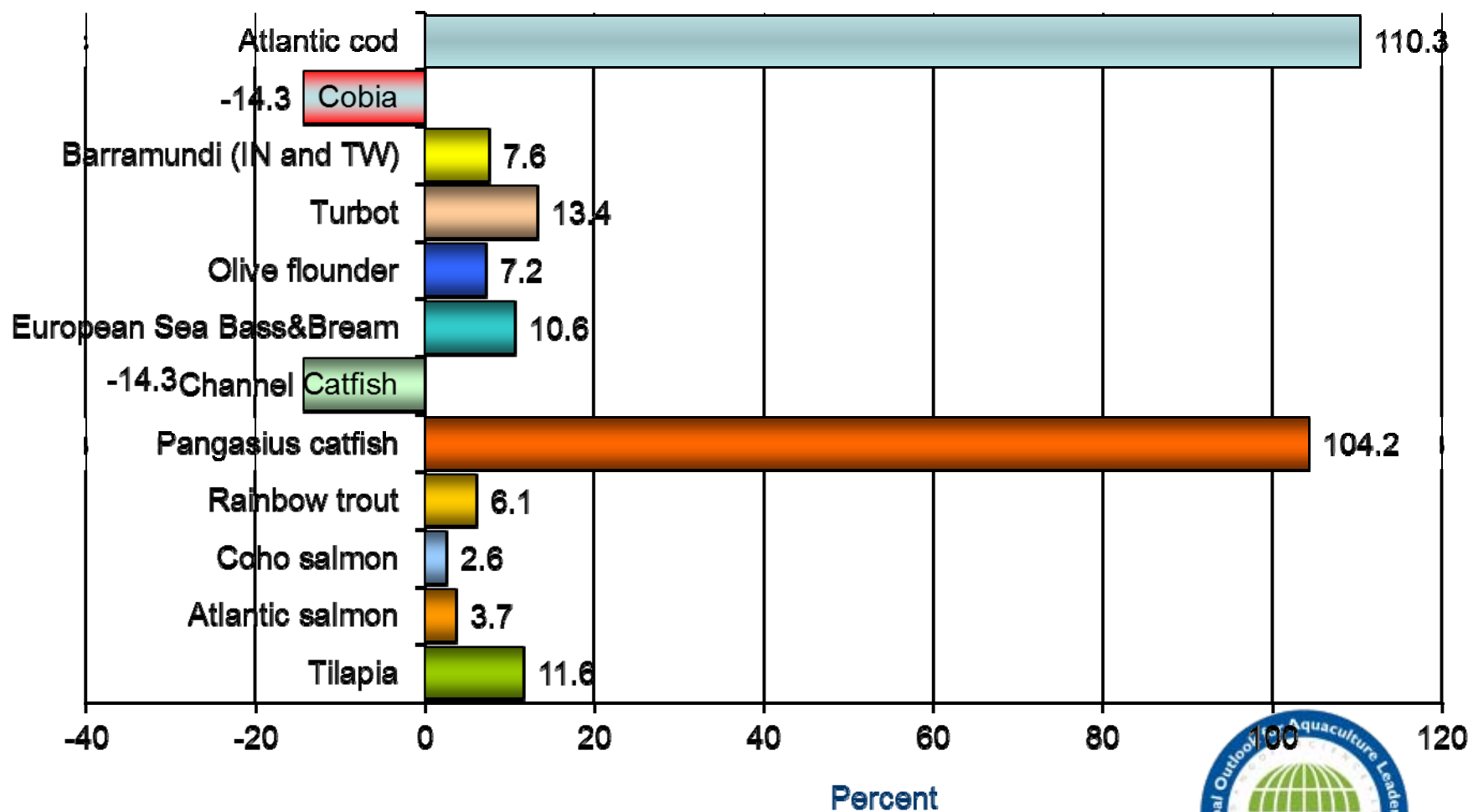
Production of Surveyed Species 2004-2011 (excl. Channel Catfish and Cobia)



Cumulative Change in Production 2004-2010



Average Annual Growth Rate 2003-2010



Annual Percent Growth Rates

2009-2011

