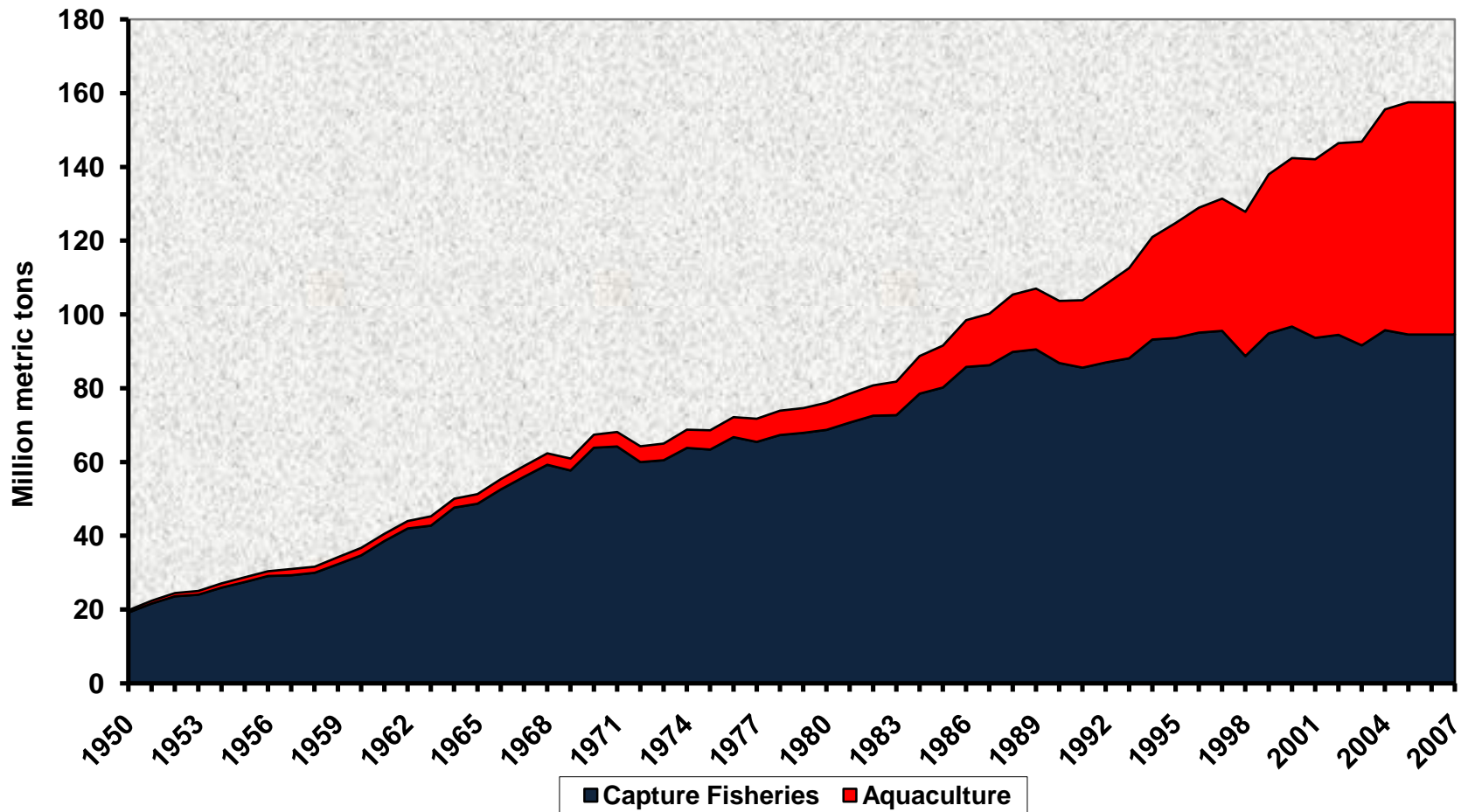


# ***Status of World Aquaculture: Who is Winning and Losing***



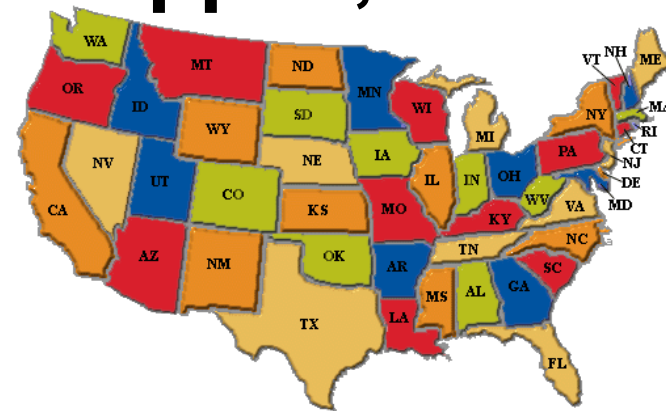
***Carole R. Engle  
Aquaculture/Fisheries Center  
University of Arkansas at Pine Bluff***

# ***Growth of World Aquaculture:*** ***Aquaculture Continues to Grow!***

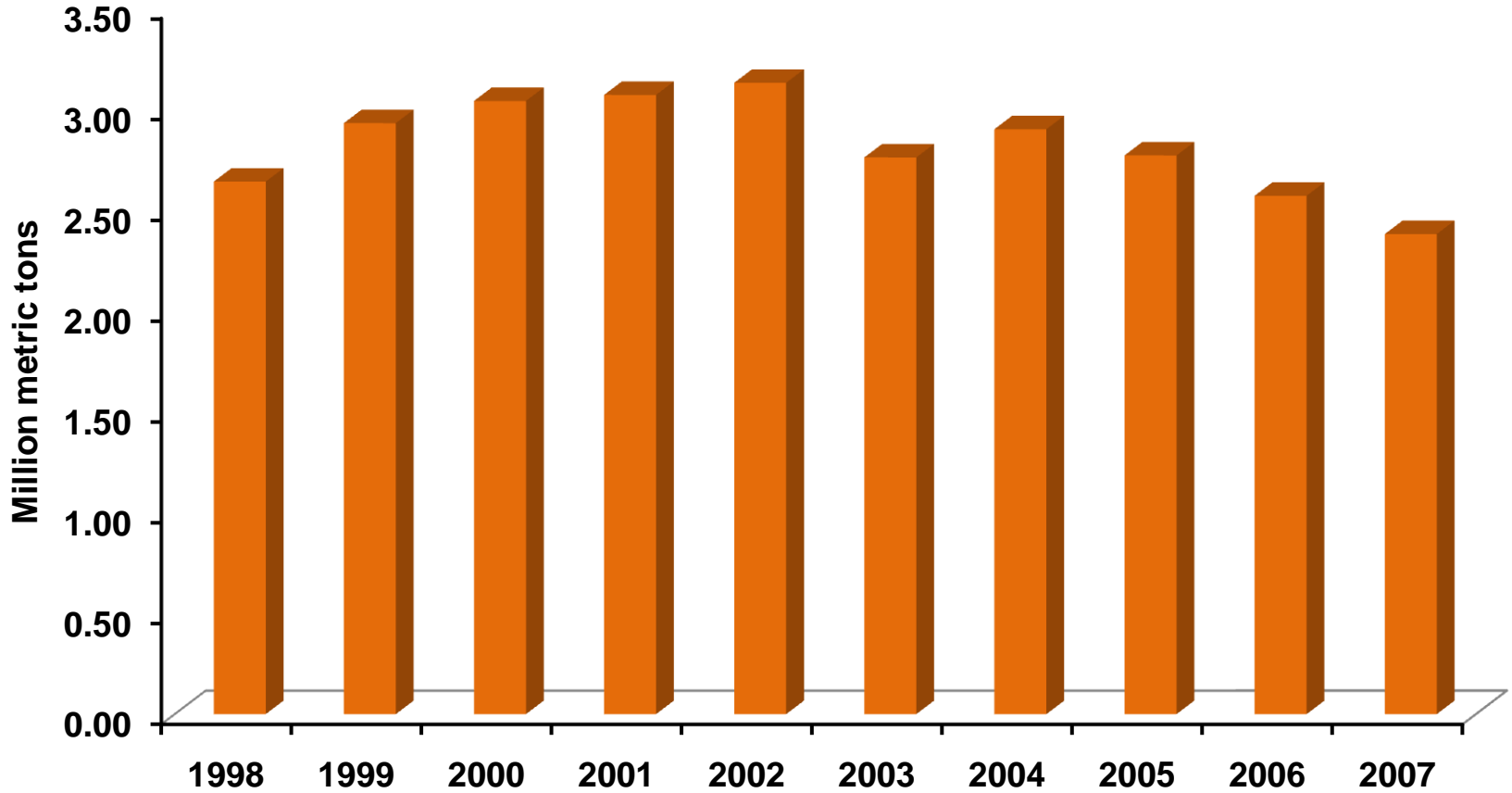


# World Trends 2009: Effects in U.S.

- U.S. surpassed Japan as leading world importer of seafood.
- U.S. seafood consumption down
- Demand for seafood dropped all across distribution chains, due to recession
- Wholesale seafood prices dropped, due to recession.

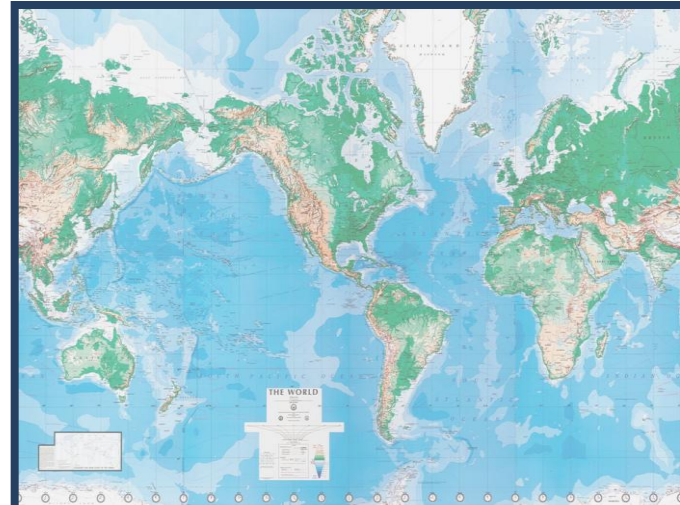


# Imports of Seafood Into Japan



# World Trends Elsewhere 2009

- **China leads in seafood exports**
- **Norway second**
- **37% of total seafood supply traded internationally**



# Seafood Trade Largely Affected by:

- Current economic crisis
- Tight credit
- Exchange rate volatility
- High costs for feed
- High fuel & transportation



# Seafood industry in U.S. Contracted



**Alaska & California  
lost seafood jobs.**



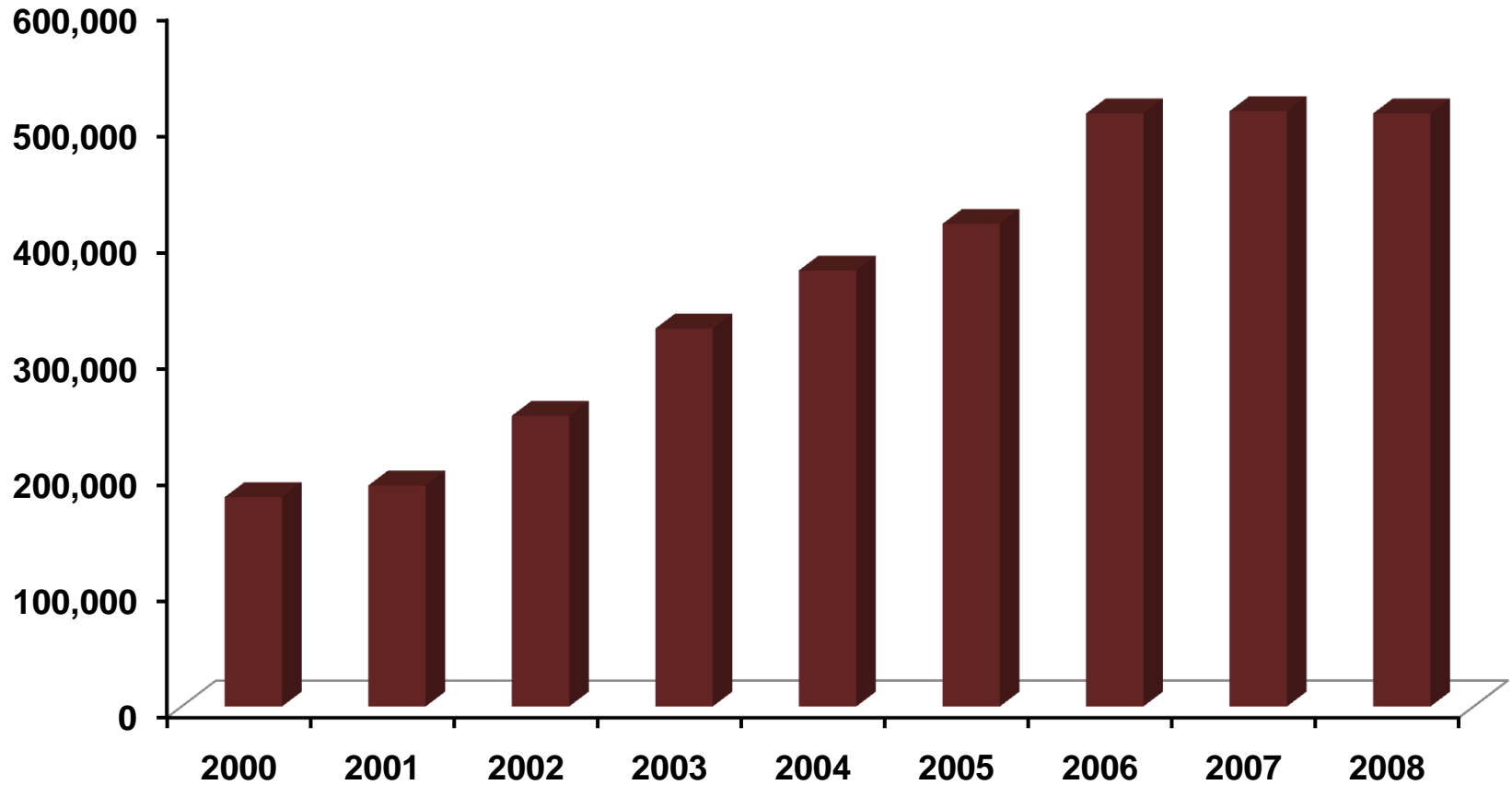
**Massachusetts  
gained a few.**

# U.S. dollar

- **Losing ground against major currencies.**
- **Importers bidding lower on replacement prices due to weakening purchasing power parity**
- **Overall prices of seafood have come down, favoring imports.**
- **Weak U.S. dollar, low consumer spending, low U.S. trading prices hinder this.**
- **Low prices and weak dollar favor exports.**

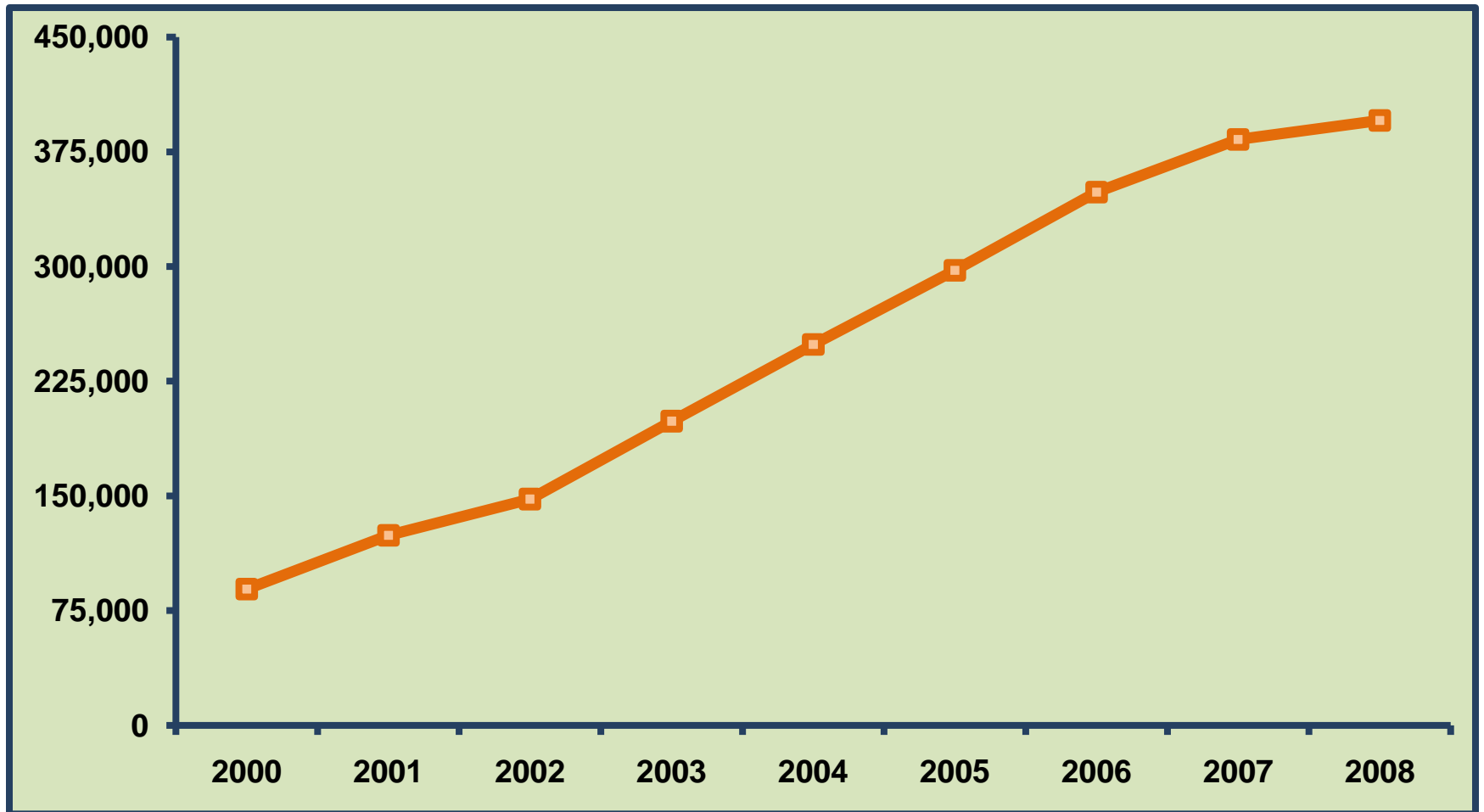


# Edible Seafood Imports from China to U.S.



**Winner!**

## Tilapia Imports into the U.S.



# Winner!

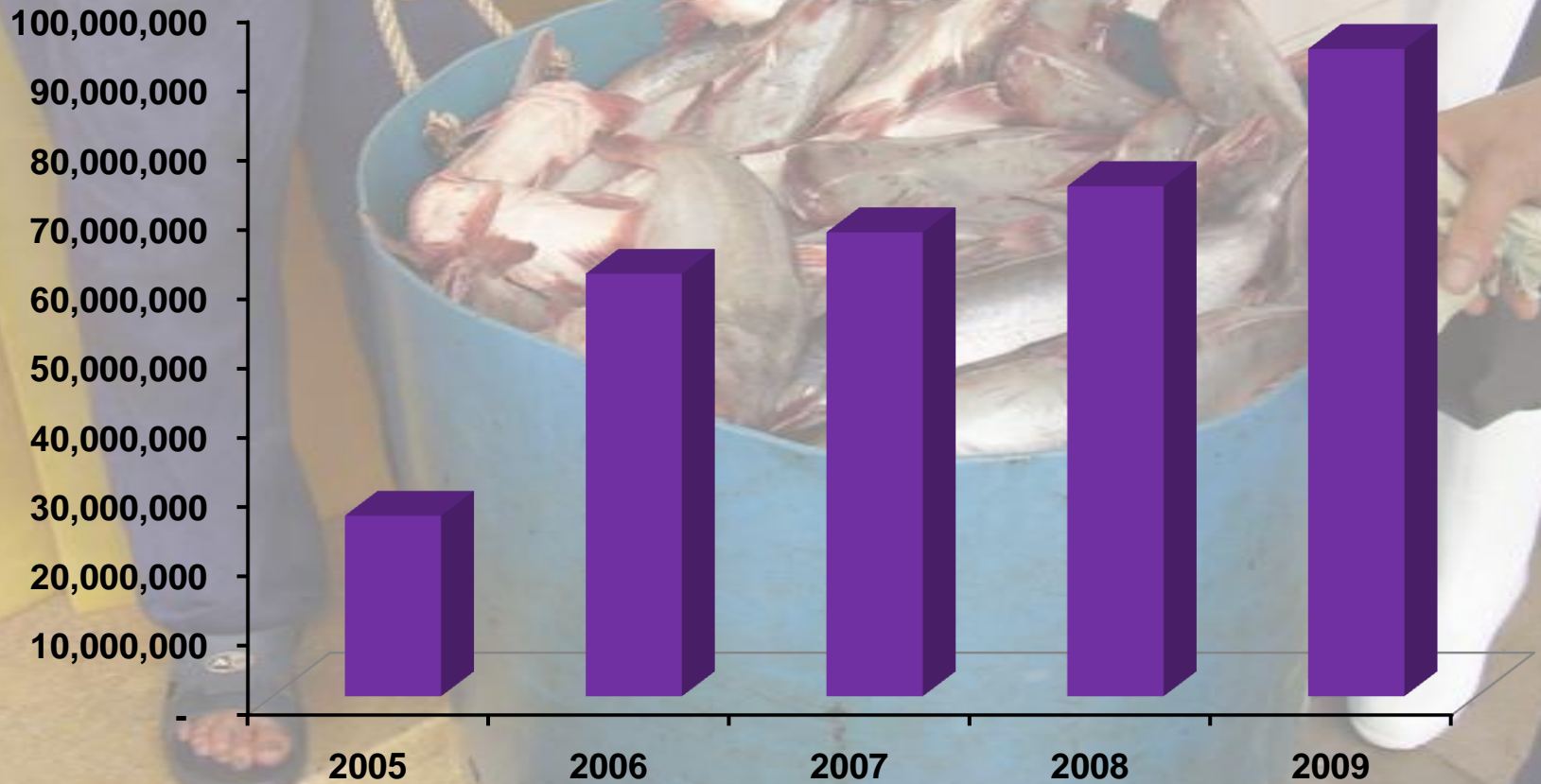
## Tilapia

- Production problems in China slowed imports, but still increasing
- Prices of tilapia frozen fillets too low to be sustainable in long run
- Fresh fillet prices not fallen as much
- Production in Honduras decreased significantly
- Costa Rica and Ecuador stable, but cannot pick up Honduras' share.



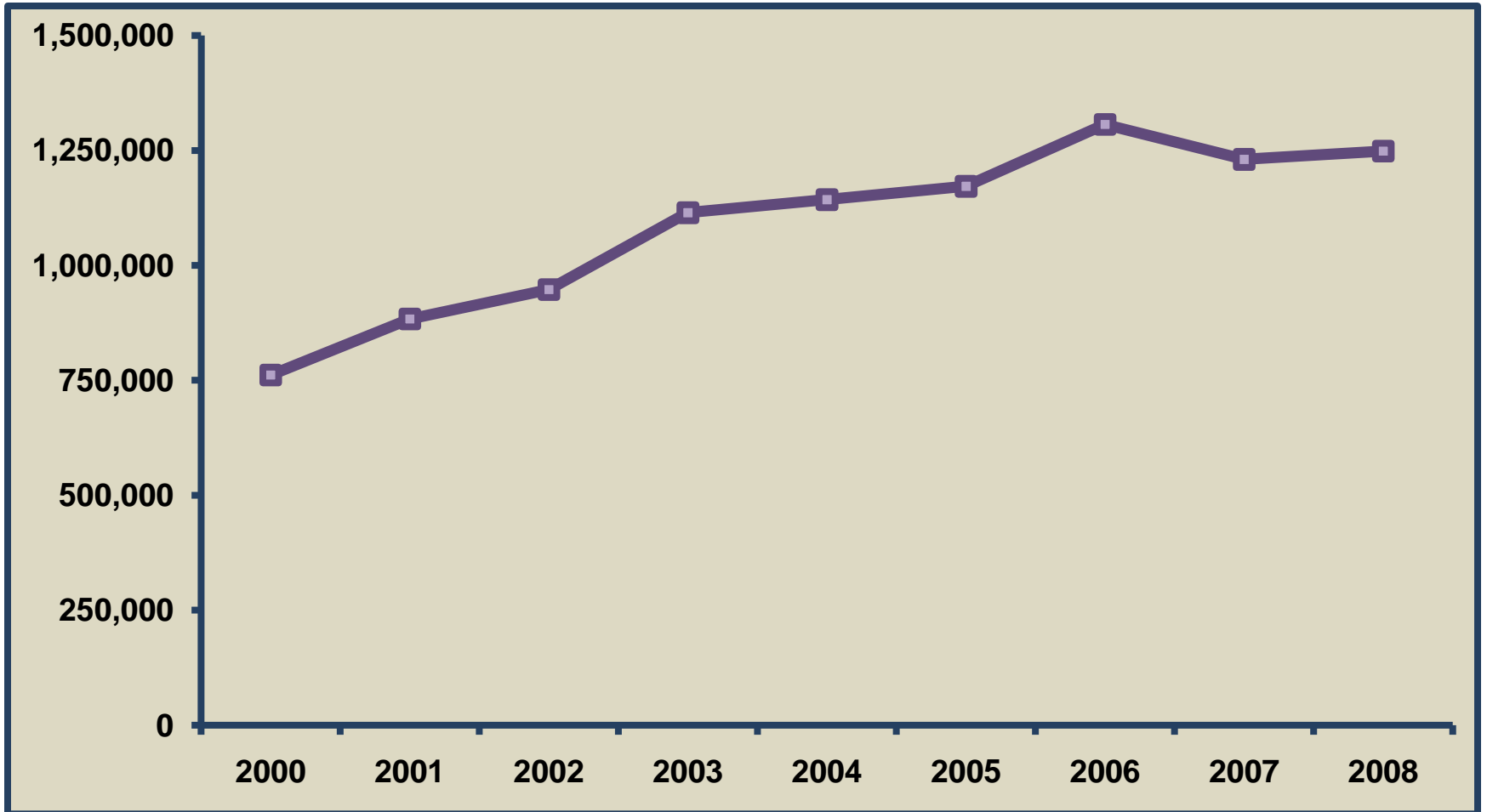
**Winner!**

# Imports of Basa/tra, 2005-Nov. 2009



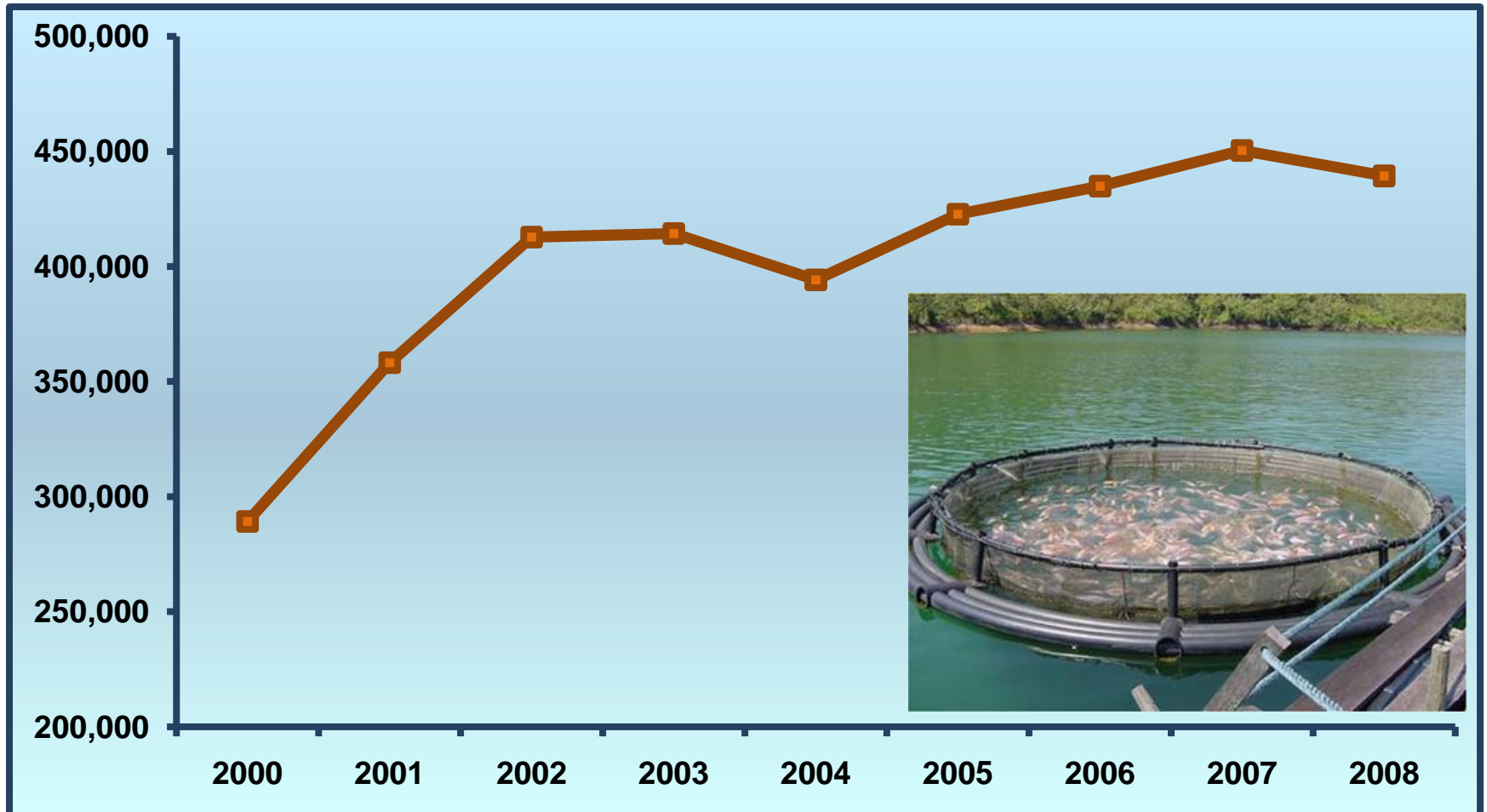
# Hanging in there

## Shrimp Imports into the U.S.



# Hanging in there

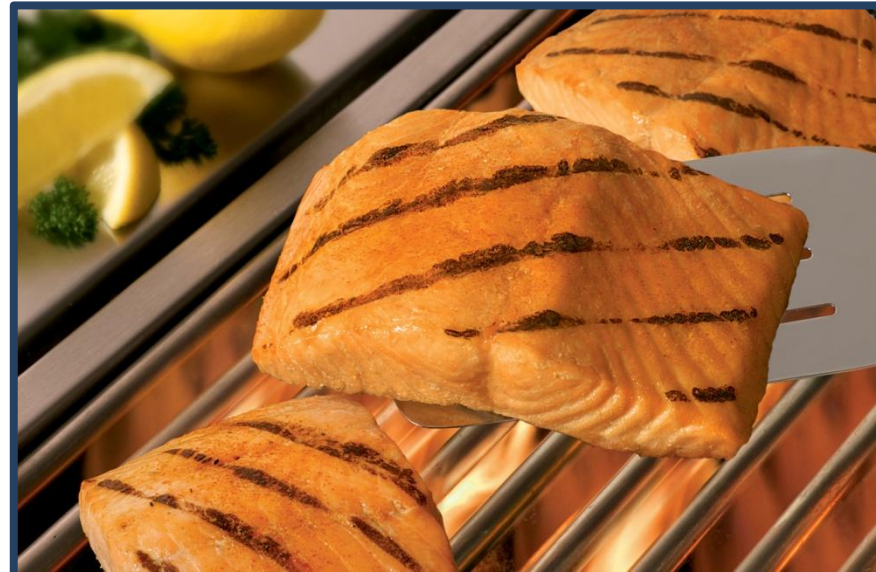
## Atlantic Salmon Imports into the U.S.



# Hanging in there

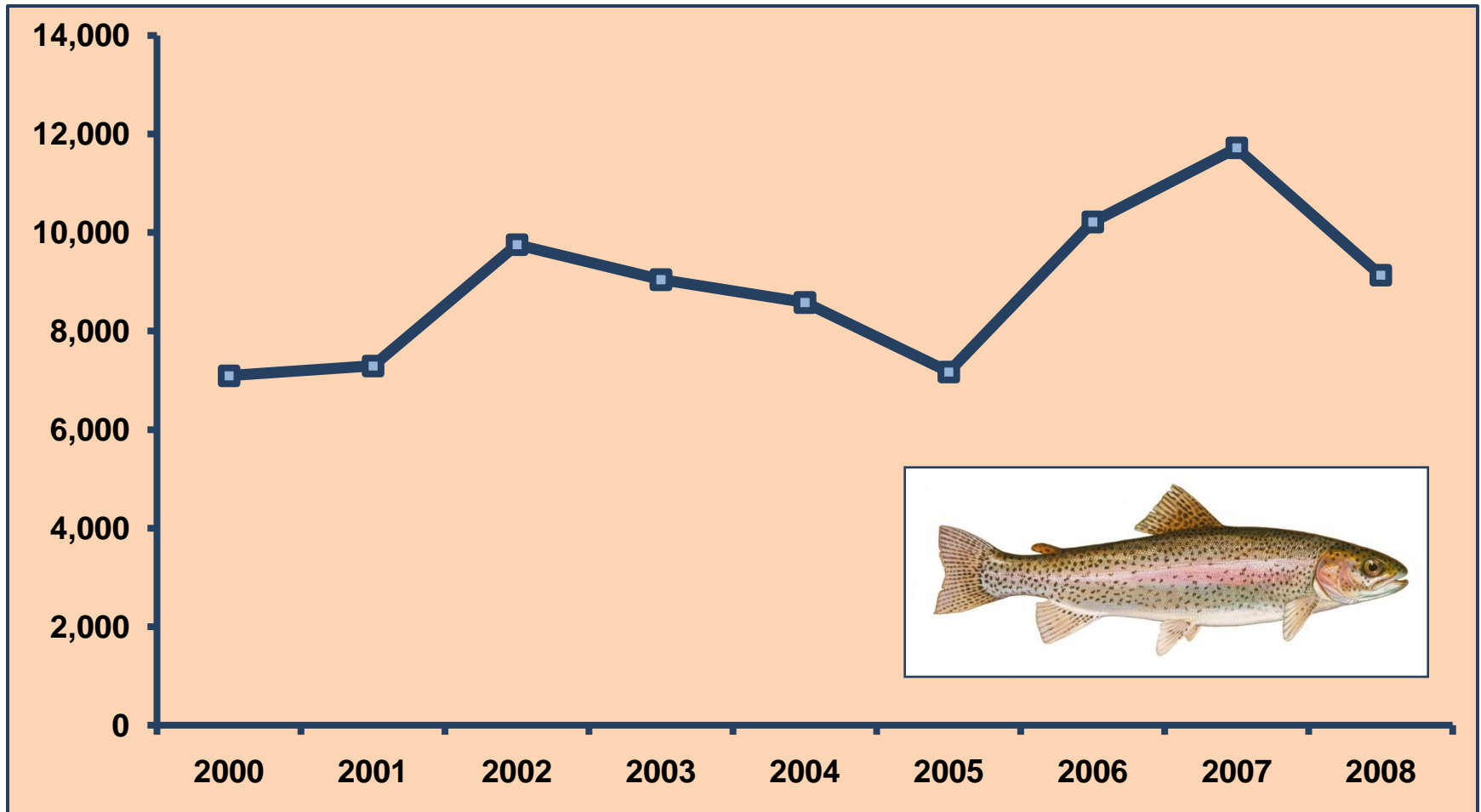
## Salmon

- **Chilean supply down due to disease outbreaks**
- **Norwegian and European salmon have moved into U.S. market in response.**
- **Salmon prices low**



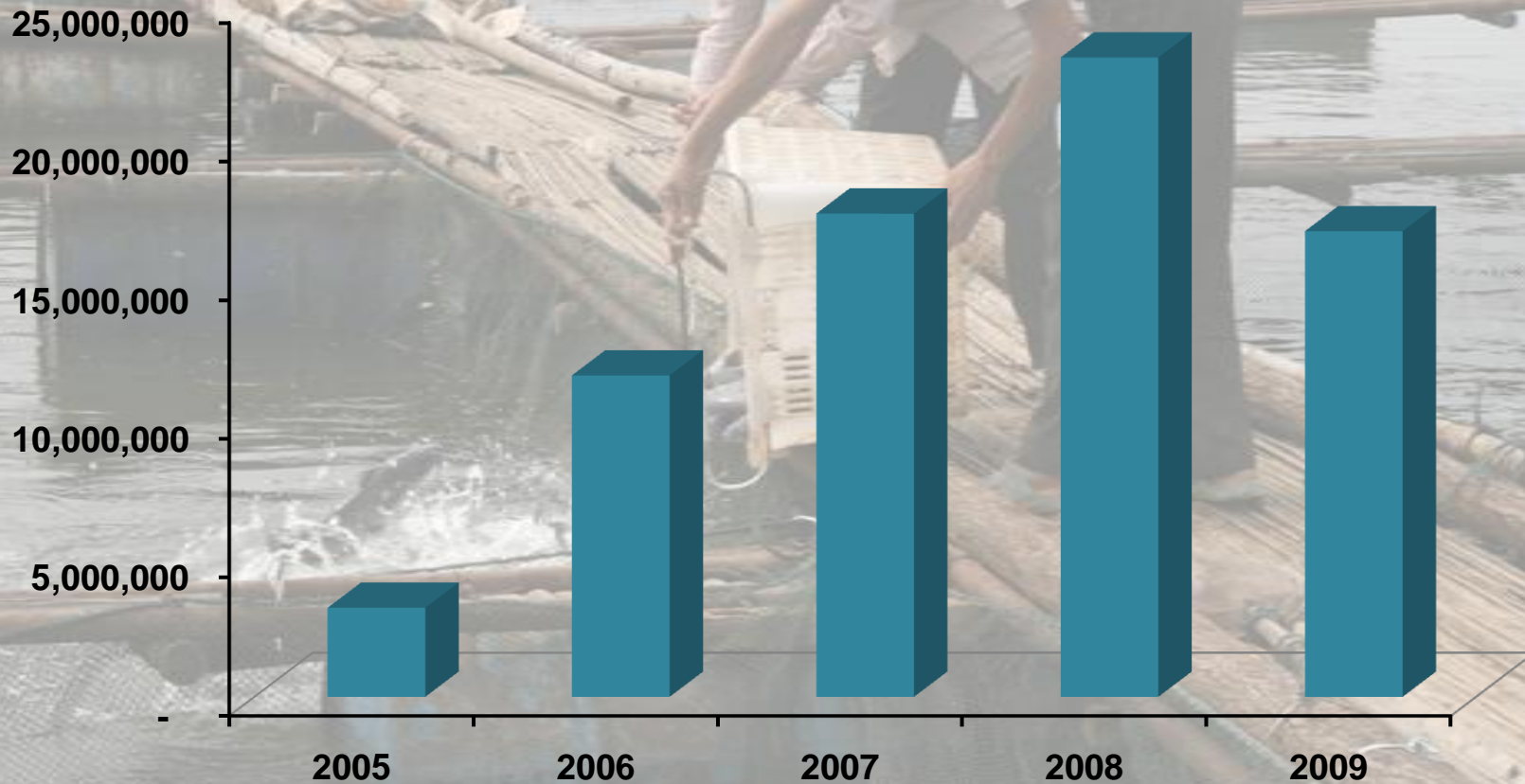
Loser.

# Trout Imports Into the U.S.



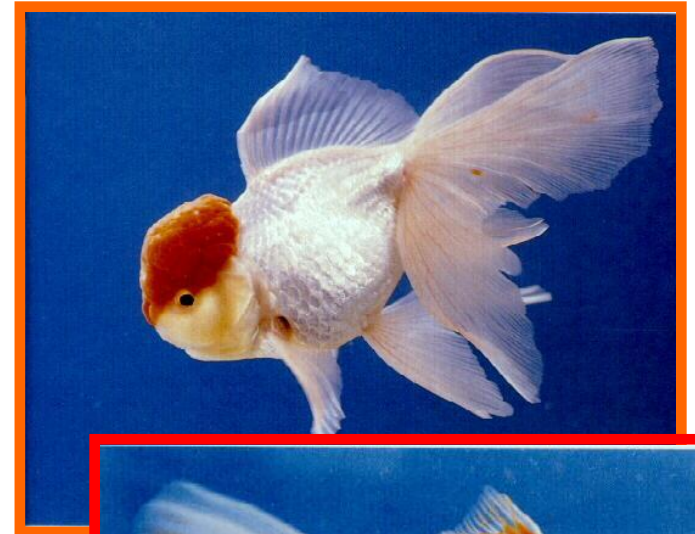
**Loser.**

# Catfish Imports to U.S. from China



# Gossip from China

- **Credit tightening affecting smaller farms.**
- **Goldfish & ornamentals grown by smaller farms in China.**
- **Carps, high-volume staple foodfish grown by smaller farms.**



# China

- Economy continues rapid growth.
- Seafood market continues to grow.
- There are some production constraints:
  - High feed prices
  - Credit crunch
  - Environmental problems

Unknown whether they will continue to manipulate their currency.



# *Questions?*

