Trans-Pacific Partnership:
Increasing the Gusher of Risky, Imported Fish

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Washington, DC
November 7, 2013

Shrimp aquaculture, Vietnam, FAO

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Total Fish & Seafood Imports
(imports in billions of pounds)

Imports rose 76 percent 1995-2010 (post-NAFTA/WTO), compared to 46% increase 1980-1995 (data not shown)

- China enters WTO, Jordan FTA
- NAFTA, Israel FTA
- Bahrain FTA, Morocco FTA
- El Salvador, Guatemala, Honduras and Nicaragua ratify CAFTA
- China PNTR, Vietnam FTA
- WTO
- Singapore FTA
- Australia FTA
- Costa Rica joins CAFTA
- Oman FTA
- Peru FTA
- Colombia FTA; Panama FTA, South Korea FTA
- Dominican Republic enacts CAFTA

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Total TPP Fish & Seafood Imports
(millions of pounds)

Source: USDA Foreign Agriculture Service

TPP fish and seafood imports constitute one-third of all U.S. imports
TPP Import Share of U.S. Consumption
(2011 data, catfish 2010)

Source: USDA FAS, Commerce Dept., NMFS

One in Five Shrimp: 18.6%
Two out of Five Salmon: 40.1%
Every other Crab and Catfish: 49.8%
Three out of Four Lobsters: 50.5%

Three out of Four Lobsters: 74.5%

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TPP Shrimp Imports
(millions of pounds)

Source: USDA Foreign Agriculture Service

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TPP Catfish Imports
(millions of pounds)

Source: USDA Foreign Agriculture Service

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TPP Catfish Imports and Real Catfish Price
(price in 2012 dollars per pound, imports in millions of pounds)

Source: USDA Foreign Agriculture Service, National Agricultural Statistical Service

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TPP Lobster Imports (all types)
(millions of pounds)

Source: USDA Foreign Agriculture Service

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TPP crab imports represent about half of all crab imports to the United States.
Average Annual Growth in Imported Seafood 1995-2012

Source: USDA Foreign Agriculture Service

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FDA Seafood Border Inspectors

(Full-time equivalent)

Source: F&WW/FDA Workplans

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* 2011 figure represents budgetary request.
Annual Fish Examined Per Inspector

(millions of pounds)

Source: USDA FAS; F&WW/FDA Workplans

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* 2011 figure represents budgetary request.
FDA Seafood Inspection & Laboratory Sample Rate
(Percentage of shipments)

Source: F&WW/FDA

- 2007 figure includes border and laboratory inspections
FDA Fish Refusals for Illegal Antibiotics, Drugs & Chemicals from TPP Countries

Source: F&WW analysis of FDA data
## Chemicals Tested for by FDA

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Year FDA Started Testing</th>
<th>Human Health Hazards</th>
<th>Common Aquaculture Fish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chloramphenicol (AB)</td>
<td>2002</td>
<td>Aplastic anemia, potential carcinogen, antibiotic resistance</td>
<td>Shrimp, crab, crayfish</td>
</tr>
<tr>
<td>Nitrofurans (AB)</td>
<td>2004</td>
<td>Potential carcinogen, antibiotic resistance</td>
<td>Shrimp</td>
</tr>
<tr>
<td>Quinolones (AB)</td>
<td>2003/2004</td>
<td>Antibiotic resistance</td>
<td>Catfish, salmon, shrimp, tilapia</td>
</tr>
<tr>
<td>Malachite Green (AF)</td>
<td>2005</td>
<td>Potential carcinogen</td>
<td>Catfish, eel, salmon</td>
</tr>
<tr>
<td>Gentian Violet (AF)</td>
<td>2006</td>
<td>Potential carcinogen</td>
<td>Catfish, eel, salmon</td>
</tr>
</tbody>
</table>

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All Vietnamese Catfish, Majority of Shrimp Farms Use Banned Chemicals

Source: Rico et al. 2013

Percent of Fish Farms Using Antibiotics, Disinfectants, Parasiticides

100% 68% 79% 63%

Banned substances at Vietnamese catfish farms included:

- Enrofloxacin
- Doxycycline
- Cephalosporins
- Quinolones
- Polymyxin
- Penicillins
- Rifamycins
- Anonoglycosides
- Amphenicols
- Diaminopyrimidines
- Malachite green and Crystal violet

PLUS carcinogens

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Other Food Safety Issues

“Harmonization” and “equivalence” → privatized meat inspection in U.S. and abroad

USDA certified equivalent privatized inspection beef plants exported tainted meat (Washington Post, 9/20/13)

USDA rejected 11 shipments of Australian beef for visible fecal matter in past 2 years;

Canadian plant exported 2.2 million pounds of e-coli tainted ground beef in 2012

In U.S., 3 of 5 hog processing plants in pilot privatized inspection among “10 worst offenders” for health and safety violations (Washington Post, 9-8-13)